# *5ESS*®-2000 SWITCH
# Translations Data Manual
## 5E14 Software Release

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# 1. INTRODUCTION

## 1.1 PURPOSE

This Translations Data Manual describes the protected relations, virtual relations, and global parameters of the Lucent Technologies *5ESS*®-2000 switch database. It serves as a reference guide for personnel who maintain the *5ESS*®-2000 switch. This document may be used in conjunction with the following Lucent Technologies documents:

- *5ESS®-2000 Switch Population Rules Language (PRL) Data Manual* (235-600-123)
- *5ESS®-2000 Switch Dynamic Data Manua*l (235-600-234 )
- *5ESS®-2000 Switch Translations and Dynamic Data Reference Manual* (235-600-225)
- *5ESS®-2000 Switch Translations and Dynamic Data Domain Description Manual* (235-600-245)

If you will be using this document to troubleshoot automatic static office-dependent data (SODD) audits, be sure to read the *5ESS®-2000 Switch Routine Operations and Maintenance Procedure* (235-105-210) and "Overview" section of this document.

## 1.2 UPDATE INFORMATION

### 1.2.1 GENERAL

This manual is being updated to include changes to the 5E14 translation data protected relations, virtual relations and global parameters. This document is available only in electronic media. Software updates cause changes in translation data, and when these changes occur, this manual will be updated to reflect the new and/or changed information.

Due to the nature of the data contained within this manual, interactive references and linking are not available. To easily find specific relations, please use the *DynaText*®search feature.

### 1.2.2 NOMENCLATURE CHANGES

As of March 18, 1999, Bellcore officially changed its name to Telcordia Technologies. In this document, the Bellcore name is used only to identify items that were produced under the Bellcore name. Exceptions may exist in software-influenced elements such as input/output messages, master control center screens, and recent change/verify screens. Where these elements are shown, there may be references to the Bellcore name until such time as they are changed in the software code.

As a result of the World Telecommunications Standardization Conference held March 1-12, 1993, the International Telegraph and Telephone Consultative Committee (CCITT), no longer exists as an organization under the International Telecommunication Union (ITU). According to the ITU, the CCITT is now referred to as the International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS).

For new and revised Recommendations issued by the ITU-TS, the term "CCITT Recommendation X.xxx" will be replaced by the "ITU-T Recommendation X.xxx" designation. For a transition period from 1993 to 1997, if the Recommendation had a previous CCITT designation, the new name will include "(formerly CCITT Recommendation X.xxx)". Names of existing CCITT Recommendations will not change unless revised.

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represent specific features as documented in Bellcore SRs 1937, 2120, and 2457. The industry is migrating to an additional terminology to more specifically denote the availability of National ISDN features: NI 95, NI 96, etc. A feature is included in a specific version (such as, NI 96) if it is available by the switch vendors by the first quarter of the year.

## 1.3 ORGANIZATION

This document is organized into four parts.

- Part 1, Introduction, Section 1 , presents an overview of this document and the protected database of the *5ESS*®-2000 switch. An index in Part 1 lists the protected relations, virtual relations, and global parameters of the database that are described in this issue.

- Part 2, Relations, Section 2 , presents the protected relations and virtual relations of the *5ESS*®-2000 switch database. Protected relations are the relations that are stored either on disk (`DBDISK`) or in Database Random Access Memory (`DBPRAM`). Virtual relations are the relations that are not stored in memory ( `DBNOTODD`). Each relation in Part 2 of this document contains a brief relation description, data dictionary values section, field layout section, and population rules section. For each virtual relation in Part 2 there is a tree diagram that depicts the decomposition scheme of the relation.

- Part 3, Global Parameters, Section 3 , describes the global parameters of the *5ESS*®-2000 switch database. Each global relation in this section contains a brief relation description, the initial value section, a rules section, and the population rules.

- Part 4, Relation Name to Recent Change/Verify View Cross-Reference, Section 4 , lists the Recent Change and Verify (RC/V) view numbers and the associated *5ESS*®-2000 switch static data base global parameters and base relations.

- Part 5, Recent Change/Verify View Cross-Reference to Relation Name, Section 5 , lists the Recent Change and Verify (RC/V) view numbers and the associated *5ESS*®-2000 switch static data base global parameters and base relations.

All relations and global parameters are listed alphabetically, with numbers and underscores preceding letters.

## 1.4 CONVENTIONS USED IN THIS DOCUMENT

In this document, population rule language version 5.0 (PRL 5.0). statements, expressions, and attributes appear in `constant-width type`. Variable names in PRL 5.0 statements appear in *`constant-width italic type`*.

## 1.5 OVERVIEW

### 1.5.1 GENERAL

The *5ESS*®-2000 switch uses a relational database called office-dependent data (ODD). The ODD database resides in computer memory and consists of the relations and global parameters that are required to support a specific *5ESS*®-2000 switch. *Relations* are two-dimensional tables with rows that are called *tuples*. Tuples consist of several fields, and columns of fields are called *attributes*. A *field layout* graphically depicts one tuple of a relation, including the placement of the attributes. The set of possible values for an attribute constitutes that attribute's *domain*. To uniquely identify a tuple in a relation, one or more attributes are designated as the *key*, and a key with more than one attribute is called a *compound key*.

A *parameter* is a *5ESS*®-2000 switch variable that is stored in a single memory location (as opposed to a relation, which is always treated as an array). A *global parameter* is known to the entire *5ESS*®-2000 switch (not to only one

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or more switching modules (SMs) but to all SMs in the switch). There are approximately 1500 global parameters. Each parameter is assigned a value that is specific to that office configuration.

The ODD is populated with data that is electronically entered on office data administration (ODA) input forms via the ODA process. The rules that govern the populating of the ODD are specific to each software release. Data is changed by means of the RC/V program or the office data base editor (ODBE).

### 1.5.2 PRL 5.0 AUTOMATED STATIC ODD AUDIT CHECKS

The Automated Static ODD Audit (99-5E-1334) will identify most types of ODD database errors. To ensure the accuracy and completeness of the error detection, the Automated Static ODD Audit feature uses the source files of PRL 5.0.

When the Automated Static ODD Audit is executed, it will create a detailed log of all error conditions detected in the *5ESS*®-2000 switch database. In most instances, the log will contain the line number from the relation `checks` section of the PRL 5.0 source code files where the error was detected. The decoded log also contains an excerpt of the source code associated with the failing line number.

To resolve the SODD errors in the error log file, one must refer to the relation `checks` section in the latest version of the PRL 5.0 source code files. The latest version of the PRL 5.0 files resides in the Electronic Media Networked Services on-line *5ESS*®-2000 switch source code listings. These files are updated on a regular basis.

Note that the PRL 5.0 source code files contained in this *Translations Data Manual* are issued only once, at the introduction of a new Software Release (SR). Subsequent changes to the relation `checks` section of the PRL 5.0 source code files will cause the information in the *Translations Data Manual* to become outdated. To avoid confusion, use only the on-line version of this document to analyze SODD audit errors.

**NOTE:** For instructions on how to use the on-line listing service, see the *5ESS*®*-2000 Switch Software Analysis Guide* (235-600-510).

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## 1.9 REFERENCES

### 1.9.1 TRANSLATION DATA DOCUMENTS

The Lucent Technologies documents referenced in this manual are:

- 235-600-234, *Dynamic Data Manual*
- 235-600-123, *Population Rules Language (PRL) Data Manual*
- 235-600-245, *Translations and Dynamic Data Domain Description Manual*
- 235-600-225, *Translations and Dynamic Data Reference Manual*

### 1.9.2 VCDX DOCUMENTS

This document also contains information concerning the Compact Digital Exchange (CDX) and the Very Compact Digital Exchange (VCDX), which are switching systems based on the *5ESS*®-2000 switch. This document is a standard *5ESS*® switch/*5ESS*®-2000 switch document that is also applicable to the CDX and VCDX switching systems. Information applicable only to CDX or VCDX may be found in the following manuals:

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- 235-120-010, *Compact Digital Exchange (CDX) Reference Guide (5E13)*
- 235-120-020, *Compact Digital Exchange (CDX) User's Guide (5E13)*
- 235-120-120, *Very Compact Digital Exchange (VCDX) User's Guide*

### 1.9.3 RELEASE SPECIFIC DOCUMENTS

An "x" or "x"s in the last three positions of a release specific document number indicate the digits that change from release to release. Refer to 235-001-001, *Documentation Description and Ordering Guide* for the document number associated with each software release.

## 1.10 PROTECTED AND VIRTUAL RELATIONS

### 1.10.1 DEFINITIONS

The following diagram defines commonly used data dictionary terms that appear in the descriptions of protected and virtual relations in the *5ESS*®-2000 switch database. Values that are not explicitly specified use the default value.

| Engineering Information | Definition |
|---|---|
| Access Type | Access types for protected relations are linear (sequential search), compacted/indexed, hashed, dynamic hashed, and dictionary. Access types for virtual relations are generated key and virtual. Default: None; this is a required field. |
| Application | The term used for relations whose distribution type includes logical partitioned (LP) distribution. The processor (AM or CMP) on which the tuples reside is determined by which functionality owns the relation. Default: Null. |
| CORCable | Can the relation be changed via customer-originated recent changes (CORCs)? Default: DBNO. |
| Cluster | The number of sequentially keyed tuples which are always populated as a set. Default: 1 Range: 1 to 4096 |
| Data Page Size | The size (in bytes) required for each data page. Default: 0. |
| Density | The percentage of key values present in the key range populated. For example if the keys in a relation are between 100 and 300 and 80 of those are typically present, the density is 80/(300-100) or 40 percent. 100 means all tuples present are sequentially keyed. Default: 0 (The program internally chooses a default based on the access method.) Range: 0 to 100 |
| Distribution | Tuples reside in the switching module (SM), administrative module (AM), communication module processor (CMP), or a combination of those elements of the *5ESS*®-2000 switch. Default: None; this is a required field. |
| Expected Tuples in Relation | The expected number of tuples to be populated in the typical SM relation. It is the size around which memory usage is optimized. This is generally set to the average field value for non-SM-2000s. Default: 0. |
| Foldtype | The folding algorithm that is used on the key of a hashed relation. Foldtypes are DBDEFAULT (DBGC16) and DBGC31. Default: DBDEFAULT. |
| Head Table Size | The size (in bytes) of the head table for the relation. Default: 0. |
| I2 Index | For three-level indexing, the number of key attribute bits that are used to index into the intermediate data page. Zero (0) signifies not indexed or index-by-divide method used. Default: 0. |
| Identical | Indicates the name of an identical relation with both relations having identical structures. Default: Null. |
| Ignore | This field serves two purposes. For CIND relations, if sub-keys are used, any bits not selected by the sub-keys must be accounted for in the ignore option. For DYNAMIC relations, this field can only specify one range. This range is the high bits that are always zero, in other words those that are not used. Default: 0 |
| Index Length | The number of key attribute bits that is required to index into the head table. Zero (0) |

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| | |
|---|---|
| | signifies not indexed or index-by-divide method used. Default: 0. |
| Intermediate Page Size | For three-level indexing; the size (in bytes) of each intermediate page for the relation. Default: 0. |
| Key Shift | Not applicable for protected or virtual relations. Default: 0. |
| Key Store | Indicates whether the key attributes are stored. Default: DBYES. |
| Length/Position of Subkeys | The aggregate key of a compacted indexed access relation may be broken up and rearranged into as many as six subkeys. The length (in bits) of each subkey and its position (bit offset from the beginning of the tuple) are specified. Default: 0. |
| Manual | If DBYES is specified, the relation will have to be checked and possibly reengineered each time the relation changes. Default: DBNO. |
| Maximum Tuples in Relation | The logical maximum number of tuples in the relation by design. The actual number of tuples should not exceed this number. Memory usage may degrade if the number of tuples populated for a given relation is greater than this number. This number may not be an absolute maximum if the combination of the keys of the relation allows for more tuples. Default: 0. |
| Memory Type | Protected relations reside in Database Protected Random Access Memory (DBPRAM) or database disk (DBDISK) memory. Virtual relations (DBNOTODD) are not stored in memory. Default: DBNOTODD. Unprotected relations reside in Database Unprotected Random Access Memory (DBURAM) and are documented only in the *5ESS*®-2000 Switch Dynamic Data Manual. |
| Padding Indicator | Padding is not used for protected data; padding indicator is set to unpadded. |
| Page Level | The level of indexing for the relation: 0 signifies indexed access not used, 1 signifies single-level indexing, 2 signifies two-level indexing, and 3 signifies three-level indexing. Default: 0. |
| Permutation Type | Attributes are rearranged for optimal memory usage or performance (perm) or not (unperm). |
| Pseudo Index | Not applicable for protected or virtual relations. Default: 0. |
| Pseudo Page | Not applicable for protected or virtual relations. Default: 0. |
| Relation Type | Protected relations have a relation type of either DBSTATIC or DBSTORAGE. Virtual relations have a relation type of DBSTATIC, DBNOUPDT, or DBNOSEQU. Default: DBSTATIC. |
| Spare | This option is used to force a minimum amount of free space in a tuple structure for future use. Default: 0 |
| Trigger Function | The name of the invoked trigger function. Default: Null. |
| Insert Trigger | Is trigger invoked on insertions? Default: DBNO. |
| Update Trigger | Is trigger invoked on updates? Default: DBNO. |
| Delete Trigger | Is trigger invoked on deletions? Default: DBNO. |
| End of Transaction Trigger | Is trigger invoked at the end of a transaction? Default: DBNO. |
| Tsbal | This value determines the basis for engineering the relation. It indicates whether time or space is more important. Default: DBNORMAL |

### 1.10.2 ACCESS TYPE

Different methods are necessary to provide efficient access to data in relations of various sizes. The following methods are used to access information in protected database relations:

| | |
|---|---|
| Linear Access | `DBACC_LIN`. Tuples are stored one after another. This method requires tuples to be searched sequentially until a particular tuple is found by matching the key. This method is slow and is used only when a few tuples are stored in the relation. Its advantage is that it requires the least amount of memory. |
| Compacted Indexed Access | `DBACC_CIND`. This access method is fast but may require more memory than the other access methods. A pointer in an access dictionary points to the data page (for single-level indexed access, the entire relation is contained on one data page) or to the head table (for two- or three-level indexing). After the data page or head table is selected, the relation key and the information from the index dictionary are used in an arithmetic operation to produce an index that identifies the correct data page and offset into the data page where the tuple is located. |

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| | |
|---|---|
| | There are three types of indexing:<br><br>(1) In *single-level indexing,* the entire relation key (usually a simple key) is used as an index. The index is used with the tuple size specified in the index dictionary to find a tuple on the data page.<br><br>(2) In *two-level indexing,* the relation key is divided to produce two indexes. The first index is used to find an offset into the head table, which provides the block ID number of (pointer to) the correct data page. The second index is used with the tuple size to find the offset into the data page where the tuple is stored.<br><br>(3) *Three-level indexing* requires three accesses: the head page, an intermediate page, and a data page. The tuple resides on the data page. |
| Hashed Access | `DBACC_HASH`. This access method uses the relation key in the fold-type algorithm to produce the address where the tuple resides. |
| Dictionary Access | `DBACC_DD`. This access method is similar to single-level indexing except that relations with this access method are dictionaries for the database manager. |
| GK Relation Access | `DBACC_GK`. This access method utilizes both indexing and hashing techniques. As tuples are needed in GK relations, the database manager generates keys. The tuples are inserted sequentially, resulting in efficient memory utilization. |
| Virtual Relation Access | `DBACC_OPV`. This access method indicates that the relation is a logical structure. |

### 1.10.3 MEMORY TYPE

`DBPRAM` relations are stored in protected random access memory (RAM), where they are used. Protected RAM data can be changed by means of the RC/V program.

Since the `DBDISK` relations are used very infrequently, those relations are copied into RAM only when they are needed. Disk relations data can be changed via the RC/V program.

`DBNOTODD` relations are virtual relations. They are not stored but are built from physical relations or storage relations that reside in protected RAM or on disk.

### 1.10.4 DISTRIBUTION TYPE

The term *distribution type* describes how a relation is distributed throughout the processors. A relation may be stored in the AM, SM, CMP, or a combination of those elements of the *5ESS*®-2000 switch. The term *SM* encompasses host SMs, remote SMs, optically remote SMs, and local SMs. The basic distribution types are the following:

| | |
|---|---|
| Fixed Partitioned (FP) | The relation exists in all SMs, but the data is different from one SM to another. |
| Fixed Redundant (FR) | The relation exists in all SMs, and the data is identical from one SM to another. |
| Fixed Group of Tuples (FG) | The relation is partitioned into a group of tuples, and each group is populated on one or more SMs. The mapping between the group of tuples and the set of SMs may vary from group to group. |
| Logical Partitioned (LP) | The relation exists in either the AM or the CMP, depending on the application. |
| Logical Redundant (LR) | The relation exists in both the AM and the CMP. |
| Disk Only (DO) | The relation resides on disk. |
| Control ODD (CO) | The relation exists in all processors. This distribution type is used only for data dictionaries. |

The FP, FR, FG, LP, and LR distribution types can be combined to form more complex distribution types. For

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example, LPFG indicates that each group of tuples may reside not only on one or more SMs (the FG rule) but may also reside on the LP processor (AM or CMP, as determined by the relation's application). Similarly, LRFG indicates that in addition to residing on one or more SMs, a group of tuples may reside on the LR processor (that is, be redundantly populated on the AM and CMP).

LPFP indicates that each tuple is stored on one of the SMs (the FP rule) and also on the LP processor (AM or CMP, as determined by the relation's application). Thus the LP processor contains all tuples in the relation for an LPFP relation. An LPFG relation, on the other hand, may or may not contain all tuples in the relation.

### 1.10.5 APPLICATION

As stated earlier, the term *application* refers only to relations whose distribution type includes LP. The processor on which the tuples reside (AM or CMP) is determined by which application owns the relation. Each LP relation includes an application specification in its data dictionary section, depending on the functionality that the relation is associated with. A global parameter contains the ID of the processor on which each application resides. For example, Global parameter `Glprcmap` contains the processor ID of the CMP since the Recent Change mapping code, application `RCMAP`, resides on the CMP.

### 1.10.6 RELATION TYPE

The OpViews feature provides users with more ways to view and access the database. It also allows data to be stored more efficiently and saves memory space.

Before the OpViews facility was available, there was only one way to access and view the database. With few exceptions, the user tuple buffers contained copies of the data exactly as it was stored. Since the user tuple and the stored tuple were usually identical, memory was wasted.

With the OpViews facility, however, the logical view of the data (user tuple) need not be the same as the stored data (stored tuple). In other words, the data in a logical view (virtual relation) can be stored in one or more physical storage relations. The application user does not need to know how the data is stored. Data storage is mostly independent of what the database users see, and data storage can be rearranged without affecting users. Thus data can be designed to ensure efficient memory usage.

The separation of the data storage format from the user's conceptual view of the data has resulted in several new relation types. The main categories of relations are

- physical relations
- virtual relations
- storage relations

These relation types are described more fully in the following subsections.

### 1.10.7 General

#### 1.10.7.1 Physical Relations

Physical relations are relations that the user views exactly as they are stored in the ODD database. Users can access these relations directly. Physical relations have a corresponding set of population rules.

Relation type: `DBSTATIC` if tuple-level access (TLA) primitives are used, or `DBDYNAMIC` if dynamic access (DA) primitives are used.

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### 1.10.7.2 Virtual Relations

Virtual relations are constructed from data that is stored in more than one physical relation. A virtual relation has a logical structure that is not found in the underlying stored structure. Each virtual relation includes a tree diagram that depicts its stored structure: a dashed box denotes the virtual relation itself, solid boxes denote root storage relations, and ellipses denote GK storage relations.

There are three types of virtual relations:

- virtual update relations
- virtual read-only relations
- virtual batch review-inhibit relations

All three types of virtual relations share several characteristics. They are all mapped into physical storage relations, and they all have a virtual relation file, one or more root storage relations, and optional child storage (or GK) relations.

Users see no difference between virtual and physical relations. From the database manager's perspective, a virtual relation is a tree structure in which every node represents a storage relation.

### 1.10.7.3 General

#### 1.10.7.3.1 Virtual Update Relations

Virtual update relations allow both transaction and nontransaction primitives for the following operations:

- read
- sequential read (that is, batch review, read-first/next, and step-first/next)
- insert
- delete
- update

A virtual update relation can have only one root, and its root can have only GK storage relations as child nodes.

Virtual update relations have a corresponding set of population rules.

Relation type: `DBSTATIC`.

#### 1.10.7.3.2 Virtual Read-Only Relations

Virtual read-only relations allow only nontransaction read and sequential read primitives. A virtual read-only relation can only have one root, but that root relation can have other root relations, physical relations, or GK relations as child nodes.

Relation type: `DBNOUPDT`.

#### 1.10.7.3.3 Virtual Batch Review-Inhibit Relations

Virtual batch review-inhibit (BRI) relations have the same characteristics as virtual read-only relations but do not

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allow sequential read access. A virtual BRI relation can have more than one root, which results in more than one tree of storage relations. The root relation can have other roots, physical relations, or GK relations as its child nodes.

Relation type: `DBNOSEQU`.

#### 1.10.7.4 Storage Relations

Like physical relations, storage relations are stored in the ODD. Storage relations are accessible only by the database manager code in support of virtual relations. There are two types of storage relations: root storage relations and child storage (GK) relations.

Storage relations have no corresponding population rules; population rules reside at the virtual update relation level.

#### 1.10.7.5 General

##### 1.10.7.5.1 Root Storage Relations

A root storage relation has the same key as its corresponding virtual update or virtual read-only relation. It does not have parent nodes. It contains the key information (that is, a generated key) that is needed to access its child storage relations. The root storage relation generally contains attributes that are unique to the relation keys and are not stored in GK relations. All decomposed relations must contain at least one root storage relation that is accessed with the key that is specified in the corresponding virtual relation.

Relation type: `DBSTORAGE`.

##### 1.10.7.5.2 Child Storage (GK) Relations

Child storage relations are accessed by either a generated key or, in the case of virtual read-only and virtual batch review-inhibit relations, a foreign key.

A foreign key is an attribute or set of attributes that is stored in one or more parent storage relations. It uniquely defines the primary key of a child storage relation tuple. The term "foreign" indicates that the key is located in a separate storage relation. Foreign keys differ from generated keys in two ways:

- They are user-defined (not system-generated) values.
- They are allowed only in virtual read-only and virtual BRI relations.

A generated key is an atomic attribute that is generated by the DBM access method to facilitate efficient storage of that storage relation's tuples. The generated key for a GK child storage relation is stored in its required parent relation's tuple. (A GK relation can have multiple parent storage relations whose tuples may point to or share the same GK child tuple.) A child storage relation that is defined by a generated key cannot be a root relation because a root relation must have the same key as its virtual relation. It can, however, store the generated keys of GK storage relations as its children.

Most decomposed relations use GK storage relations to store attributes that are not often populated or sets of attributes that, as a set, do not often change in value. The keys to the GK relation are not stored with the relation.

Relation type: `DBSTORAGE`.

### 1.10.8 RELATION POPULATION RULES

The relation population rules in this document are written in Release 5.0 of a formal language called Population

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Rule Language (PRL 5.0). PRL 5.0 represents the structure and data dependencies of static relations in a precise, unambiguous format. This language presents population rules with a set of logic constructs and some procedural constructs. This section of this document describes the features and capabilities of PRL 5.0. This section also provides reference information for personnel who use *5ESS*®-2000 switch relation population rules.

PRL 5.0 is used to describe the valid set of values in the ODD database of a *5ESS*®-2000 switch. The ODA uses these rules to validate how the database is built. The RC/V program also uses these rules to validate updates to the database. The SODD Audit feature uses these rules in checking the validity of the data in a particular *5ESS*®-2000 switch. The SODD Audit is generated directly from the PRL 5.0 population rule source files to ensure the completeness and accuracy of the checks.

### 1.10.9 POPULATION RULE FILES

The relation population rules are organized by relation. There is a separate population rule file for each static relation in the database. Each population rule file is documented both in this Translations Data Manual and through the Electronic Media Networked Services on-line *5ESS*®-2000 switch source code listings.

A population rule file contains data description sections and a `checks` section. The data description sections describe the data and, except for the `distribution-rules` and `default-rules` sections, are written in English text. The `checks` section contains the actual population rules and is written in the PRL 5.0 language.

The on-line listings contain all of the sections that are found in the population rule file. This Translations Data Manual contains all of the sections except the `retrofit-rules` section. In a population rules file, each section is marked by one of the following keywords, starting in the first column:

| | | | |
|---|---|---|---|
| attribute: | definitions: | fullname: | relation: |
| checks: | description: | parameter: | retrofit-rules: |
| default-rules: | distribution-rules: | rc-oda-rules: | import: |

Each of those sections of a population rules file is discussed in greater detail in the following sections of this document.

### 1.10.10 ORGANIZATION OF POPULATION RULE FILES

Files for the *5ESS*®-2000 switch are organized as either relations, parameters, or definitions. The following shows the organization of each file type and its sections. These sections are described more fully later in this "Introduction" to this document.

*Organization of Relation Files*

```
PRL Version: 5.0;
 relation:
fullname:
 description:
rc-oda-rules:
retrofit-rules:
default-rules:
distribution-rules:
attribute:
fullname:
description:
import:
checks:
```

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*Organization of Parameter Files*

```
 PRL Version: 5.0;
 parameter:
 fullname:
 description:
 rc-oda-rules:
 retrofit-rules:
 default-rules:
 distribution-rules:
 import:
 checks:
```

*Organization of Definition Files*

```
 PRL Version: 5.0;
 import:
 definitions:
```

The `Version` clause identifies version of PRL that is used in the population rules files.

The `definitions` format is used to define publicly available `func-defn`s and `let-statement`s that can be used by all relations. PRL 5.0 files are also used to define global abbreviations and functions, as described in the following text of this "Introduction."

The `attribute` section is included when the programmer defines attributes of relations and structure parameters. The `attribute` section is not included when defining scalar parameters because scalar parameters have no attributes.

### 1.10.11 SECTIONS OF THE POPULATION RULES FILE

The sections that describe each relation or parameter of the database are described here.

### 1.10.12 General

#### 1.10.12.1 Relation/Parameter

Each relation of the database is introduced by the following statement:

```
  relation:
    name of relation
```

Each parameter of the database is introduced by the following statement:

```
  parameter:
    name of parameter
```

A sample `relation` section is shown in Exhibit 1-1 .

#### 1.10.12.2 The 'fullname' Section

The `fullname` section conveys the meaning of the relation name on one line. It is introduced by the following statement:

```
 fullname:
  text
```

A sample `fullname` section is shown in Exhibit 1-1 .

#### 1.10.12.3 The 'description' Section

The `description` section describes the purpose of a single relation or parameter.

```
 description:
  text
```

A sample `description` section is shown in Exhibit 1-1 .

```
relation:
    RLch_excd

fullname:
    Charging Exception Day Relation

description:
    This relation identifies the type of charging
    used for each special day (such as a holiday).
```

**Exhibit 1-1 Relation/Parameter**

### 1.10.12.4 The 'rc-oda-rules' Section

The `rc-oda-rules` section documents additional requirements for RC/V and ODA. These rules, which are written in English, define the entry, update, and deletion of information in the relation by ODA and RC/V. Often, the information in the `rc-oda-rules` section actually represents one or more data dependencies. If there are no special rules regarding ODA and RC/V, the words `not applicable` are entered in this section. The `rc-oda-rules` section has the following format:

```
 rc-oda-rules:
  text
```

The `rc-oda-rules` section contains rules that affect the interfaces of RC/V and ODA. For example:

- If a relation is to be supported only by ODA, then a comment in this section would state that the relation cannot be modified by RC.
- If there are trigger-function constraints on the sequence in which RC should populate relations for the assignment of lines, trunks, equipment, etc., comments in this section would specify the required sequence.

  Sample `rc-oda-rules` sections are shown in Exhibit 1-2

```
rc-oda-rules:
 The attribute ref_cnt must have a zero value
 before a delete of a tuple in this relation
 is allowed.

rc-oda-rules:
 The attributes rtpd[*].strtime must be
 presented to the user in HHMM format,
 even though they are stored in seconds.

rc-oda-rules:
 The status attribute cannot go from OOS
 to ACTIVE, but must be changed from OOS
 to GROW, then in a separate operation
  from GROW to ACTIVE.
```

**Exhibit 1-2 rc-oda-rules**

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### 1.10.12.5 The 'retrofit rules' Section

The `retrofit-rules` section explains how to transform data from a previous *5ESS*®-2000 switch software release to the current release. It is introduced by the following statement:

```
retrofit-rules:
  text
```

The `retrofit-rules` section describes how the relation is to be populated when the *5ESS*®-2000 switch database is moved from one software release to another. These rules should be used for that purpose only. If the data does not change from one software release to another, the word `None` or `preserve over the retrofit`appears in the `retrofit-rules` section. The data may change due to

- moving data from one relation to another
- a change in interpretation of data values
- removing data

### 1.10.12.6 The 'default rules' Section

The `default-rules` section contains code that assigns values to each attribute that requires a default value. The imperative/functional dialect of PRL 5.0 is used, which is described at the end of the PRL 5.0 description.

When no information is provided for a specific data item during an insert operation, both RC/V and ODA use the `default` variable. The `default-rules` section is introduced by the following statement:

```
default-rules:
  statements
```

The `default-rules` section has access to the `default` variable to provide default values.

The assignments in the `default-rules` section are used to initialize the RC/V and ODA views. If necessary, the RC/V or ODA user can override these values. If no default is given for a nonkey attribute, that attribute defaults to the smallest legal nonnegative value.

If there are no default rules, the comment `/* none */` is used in this section. A sample `default-rules` section is shown in Exhibit 1-3 .

```
default-rules:
    default.ref_cnt = 0;
    for i in { 0 thru $MAX_RTPD - 1 }
    begin
 default.rtpd[i].strtime = 86400;
 default.rtpd[i].clrt = 0;
   end
```

**Exhibit 1-3 default rules**

### 1.10.12.7 The 'distribution rules' Section

The `distribution-rules` section contains coded rules that define the processors for which a specific tuple in the current relation exists. This code is used for reference only; it is never executed. It is introduced by the following statement:

```
distribution-rules:
  statements
```

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Sample distribution-rules sections are shown in Exhibit 1-4 .

```
distribution-rules:
 /* standard */

distribution-rules:
 pcrlist [tuple.im] =
 true;

distribution-rules:
 /*
  * populate this relation only on SM's
  * that support RISLU's
  */
 for loceq in RLrc_loceq on am
 where (loceq.unittype is_in {SMRISLU, SMRISLU2})
  pcrlist [loceq.im] = true;
```

**Exhibit 1-4 distribution-rules**

The code in the distribution-rules section refers to the boolean array pcrlist and the variable tuple to describe the distribution of data across processors.

If pcrlist[i] is true, then the tuple must be found on processor<i>. If pcrlist[i] is false, then that tuple must not be found on processor<i>. The pcrlist array is initialized to all false. (For a sample pcrlist, see Section "Built-in Functions.")

For some relations, such as RLcktdata, the pcrlist cannot be computed from the tuple. For those relations, the distribution-rules section is empty, and the rc-oda-rules section contains details, such as processor supplied by RC/ODA user.

### 1.10.12.8 The 'attribute' Section

Every attribute that is defined in the relation must be described by an attribute section.

Population rules that cover parameters do not have an attribute section because parameters typically do not have attributes. An attribute section appears in the following format:

```
attribute:
 name of attribute

fullname:
 full name of attribute

description:
 descriptive text
```

Sample attribute sections are shown in Exhibit 1-5 .

```
attribute:
    dispx
fullname:
    display index
description:
    OSPS BST display index for the given
```

```
    call factors.

attribute:
    rtpd[*].strtime
fullname:
    Start Time
description:
    Gives the start time for this rate
    period in seconds past midnight.
```

**Exhibit 1-5 attribute**

The operator `[*]` is used for pseudoarrays of like attributes (see Subsection "Pseudoarrays").

### 1.10.12.9 The 'import' Section

The import section contains a list of files which define symbols used in the poprule file. An example of this section can be found in RLfc_line.R.

### 1.10.12.10 The 'checks' Section

The `checks` section contains the true population rules and is the main part of a relation's population rules specification. The `checks` section contains the assertions and dependency rules about a database that evaluate to true or false based on the contents of that database at a given time. Assertions are used to assert that one or more specified conditions must be true. For the contents of a database to be correct, all PRL 5.0 assertions about that database must evaluate to true. Relation dependency rules are dependencies between the relation that is being specified and some other relation, and/or dependencies that are not associated with a particular attribute. Each dependency rule is written using a combination of the dependency statements that are described in Section "Statements for Specifying Dependencies with Declarative PRL." If no assertions or dependencies are associated with the relation as a whole, the relation `checks` section contains the comment `/* not applicable */`. The relation `checks` section may also be used to list attribute-specific dependencies.

The `checks` section is introduced by the following statement:

```
checks:
 PRL 5.0 statements
```

## 1.10.13 DEFINITIONS IN PRL

### 1.10.13.1 Data in PRL

A numeric constant can be written in the following bases:

- Decimal numbers are a sequence of one or more digits from *0* to *9*. They should not start with a *0* unless there is only one digit.
- Octal numbers start with a *0* and continue with one or more digits from *0* to *7*.
- Hexadecimal numbers start with *0x* or *0X* and continue with one or more digits from *0* to *9* and *a* to *f* or *A* to *F*.
- Binary numbers start with *0b* or *0B* and continue with one or more *0*s and *1*s.

A *string constant* is a sequence of characters between a set of enclosing double quotation (" ") marks that is not immediately preceded by a backslash. Within a string constant, a backslash double quotation mark (*"*) means a

double quote, a backslash backslash (\) means a single backslash, and a backslash zero (*0*) means the null character.

An *identifier* begins with a letter and continues with zero or more letters, digits, or underscores. All characters are significant, and their case (lower case or upper case) is also significant. An identifier that is preceded by a `$` refers to a value that has been defined in a *.h* file. An identifier may optionally be preceded by a backslash (\) so that a keyword can be used as an ordinary identifier.

### 1.10.13.2 Pseudoarrays

A *pseudoarray* is a special interface that PRL 5.0 supports for a set of like-named attributes. If a set of attributes has embedded sequential numbers that start with either *0* or *1*, then that set of attributes can be accessed using a pseudoarray. For example, if a tuple has attributes *a01, a02, a03, ... a25*, then the PRL 5.0 program can regard these attributes as a pseudoarray *a* that can be indexed by values from 1 to 25. (It would be an error to use index *0* on this pseudoarray.) Some external attribute name series have two numbers embedded in them, such as *s1b1, s2b1, s1b2, ... s2b10*. These can be regarded as arrays of arrays. In this example, *s[*]b[*]* is an array of arrays; *s[1]b[*]* is an array, and *s[1]b[2]* is a single element. Note that pseudoarray subscripts can be in the middle of an identifier.

If there is a set of attributes that have skipped numbers, these attributes cannot be accessed using the pseudoarray interface. For example, the attributes *attr01, attr02, attr11*, and *attr12* cannot be accessed using the pseudoarray interface because the embedded numbers are not sequentially increasing.

The following diagram shows examples of pseudoarrays:

**Examples of Pseudoarrays:**

| RD [a] | PRL [b] |
|---|---|
| attr1<br>attr2...<br>attr42<br>abc1def.ghi<br>abc2def.ghi<br>att01...<br>att09 | attr[1] attr[*]<br>attr[2]<br>attr[42]<br>abc[1]def.ghi abc[*]def.ghi<br>abc[2]def.ghi<br>att[*] |
| ***Notes:***<br>a. Relation Definition Language<br><br>b. Population Rules Language | |

### 1.10.14 STATEMENTS FOR SPECIFYING DEPENDENCIES WITH DECLARATIVE PRL

The following dependency statements are used to specify the database integrity constraints:

- the `for` statement
- the `if` statement
- `assertion` statements
- the `combinations_of` statement
- the `find` statement
- the `select` statement
- the `let` statement

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## 1.10.15 General

### 1.10.15.1 The 'for' Statement

The `for` statement is used as a looping construct. It has several slightly different forms, but each of its forms has the same purpose: to execute a statement or block of statements repetitively. Note that a `for` statement always contains `begin` and `end` keywords.

The different forms of a `for` statement are illustrated in the following subsections of this text.

### 1.10.15.2 General

#### 1.10.15.2.1 Accessing the Tuples in a Relation

The `for` statement is used to access a number of tuples within a relations. The simplest and most common form of the `for` statement is as follows:

```
for tuple in RLabcdef
begin
        .
        .
        .
        statement-list
        .
        .
        .
end
```

In this form of the `for` statement, the statement list between the `begin` and `end` keywords is executed once for every tuple that is found in the referenced relation `RLabcdef`. This form of the `for` statement is illustrated in Exhibit 1-6 .

```
for rc_lcc in RLrc_lcc
begin
        if (rc_lcc.servclass == FC_ISDN) then
        begin
                rc_lcc.termclass == RTTC_INDIVID;
        end
end
```

**Exhibit 1-6 for statement**

#### 1.10.15.2.2 Processor Specification

We have seen that the `for` statement can loop through all of the tuples in a referenced relation. The `for` statement also allows one or more qualifying processors to be specified that specify the tuples that are looped through, as shown in Exhibit 1-7 .

```
for fcline in RLfc_line on re_oeinfo.portmod
begin
        .
        .
        .
```

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```
        statement-list
      .
      .
      .
end
```

**Exhibit 1-7 for Statement Processor Specification**

In the `for` statement in Exhibit 1-7 , the referenced relation `RLfc_line` has a qualifying processor, on `rc_oeinfo.portmod`. The statement-list between the begin and end keywords is executed once for every tuple in that part of the referenced relation that resides on the `rc_oeinfo.portmod`. This use of the for statement is further illustrated in Exhibits 1-8 through 1-10 .

```
for ctinfo in RLctinfo on sm (12)
begin
        ctinfo.cw_on > ctinfo.cw_off;
end
```

**Exhibit 1-8 for Statement Example**

```
for ctinfo in RLctinfo on SM (sm_number)
begin
        ctinfo.cw_on > ctinfo.cw_off;
end
```

**Exhibit 1-9 for Statement Example**

```
for ctinfo in RLctinfo on xzy.port.module
begin
        ctinfo.cw_on > ctinfo.cw_off;
end
```

**Exhibit 1-10 for Statement Example**

Exhibits 1-7 through 1-10 shown previously, illustrate the most general form of processor specification; any valid expression can follow the `on` keyword (see Subsection, "Expressions in Dependency Statements"). Other possibilities for specifying qualifying processors in the for statement are the keywords `on all` and on `sm_all`.

Note that, without a processor specification, tuples from a partitioned relation are selected from the current processor, and tuples from a nonpartitioned relation (central or redundant) are selected from an appropriate processor.

### 1.10.15.2.3 Tuple Variables

A tuple variable provides a means to reference successive tuples of a relation. In this form of the `for` statement, the statement list between the `begin` and `end` keywords is executed once for every tuple in the referenced relation `RLabcdef`. In turn, the tuple pointer `abcdef` points to each tuple that the `for` statement ranges over. This tuple pointer may be used from within the begin-end block to reference tuples that might otherwise be ambiguous. Exhibit 1-11 illustrates a nest form of the `for` statement. Notice the different tuple variables.

```
for ctinfo in RLctinfo
where (ctinfo.rcall_type != 0)
begin
            for tctinfo in RLctinfo
            where (tctinfo.call_type == ctinfo.rcall_type
```

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```
                    begin
                                tctinfo.ct_adctype == DBYES;
                    end
     end
```

**Exhibit 1-11 Nest Form for Statement**

### 1.10.15.2.4 Stepping through a Range of Variables

In addition to ranging over a set of tuples, a for statement may be used to range over a set of listed values, as shown in Exhibit 1-12

```
for idx in { 1 thru 6, 10 }
begin
       .
       .
       .
        statement-list
       .
       .
       .
end
```

**Exhibit 1-12 Ranging**

In the `for` statement in Exhibit 1-12 , the statement list between the `begin` and `end` keywords is executed once for each value in the set that is specified in the braces ( { } ), in this case, seven times. In turn, the variable `idx` assumes each of these values. The set that is specified in the braces may be a factor or list of factors (see Subsection, "Factors"). This form of the `for` statement is illustrated in Exhibit 1-13

```
for bix in { 0 thru 31 }
begin
         let i = (aix / 32) + bix;
         let aix = 2 * bix;
         if (i != 0) then
         begin
                   find >= 1 group_port in RLgroup_port
                   where (group_port.grpnum == i);
         end
end
```

**Exhibit 1-13 Factors**

Exhibit 1-14 shows some other possible ways of using a `for` statement in this manner.

```
for idx in { 1 thru var1 }
begin
       .
       .
       .
end
for i in { j thru k }
begin
        .
        .
```

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```
        .
end
for i in { 1 thru 6, j thru k, 15 }
begin
        .
        .
        .
end
```

**Exhibit 1-14 Factors**

### 1.10.15.2.5 The 'where' Clause

The `for` statement also provides a `where` clause, which is used to select certain tuples that limit the range of the for statement. A `where` clause may be used with all forms of the `for` statement that step through tuples. A sample where clause is shown in Exhibit 1-15 .

```
for abcdef in RLabcdef
where (abcdef.attr1 == DBYES)
begin
            .
            .
            .
            statement-list
            .
            .
            .
end
```

**Exhibit 1-15 Where Clause**

In this form of the `for` statement, the statement list between the `begin` and `end` keywords is executed once for each tuple in the referenced relation whose value for `attr1` is `DBYES`. This form of the for statement is illustrated in Exhibit 1-16

```
for group_port in RLgroup_port
where (group_port.portgrp.grptype == TM_LINE)
begin
        find == 1 rt_lgmem in RLrt_lgmem
        where (rt_lgmem.grpnum == group_port.grpnum);
end
```

**Exhibit 1-16 Where Clause - for Statement**

### 1.10.15.3 The 'if' Statement

The `if` statement in PRL is much like `if` statements in other languages. A specified condition is tested for its truth value. If the condition is true, a statement or block of statements is executed. Optionally, an `else` clause allows a different statement or block of statements to be executed if the specified condition is false. The condition that is being tested may be any logical expression and must be enclosed in parentheses (see Subsection, "Expressions in Dependency Statements").

An `if` statement appears in the following format:

```
if ( condition ) then
begin
```

```
                .
                .
                .
                statement-list
                .
                .
                .
        end
        else
        begin
                .
                .
                .
                statement-list
                .
                .
                .
        end
```

Sample `if` statements are shown in Exhibits 1-17 , 1-18 , and 1-19 .

```
        if (rc_lcc.servclass == FC_PROCALL) then
        begin
                 rc_lcc.termclass == RTTC_INDIVID;
        end
        else
        begin
                 rc_lcc.termclass is_in { RI, AGING, TINWATS };
        end
```

**Exhibit 1-17 if Statement**

```
        if (ctinfo.ct_optype == OSPSDA &&
                ctinfo.notify != ctinfo.coin_recall) then
        begin
                ctinfo.ct_adctype == DBYES;
        end
```

**Exhibit 1-18 if Statement**

```
        begin
                let found = find == 1 a in RLa where (a.x == FC_PBX);
                if (found) then
                begin
                            find == 1 a in RLa where (ax == FC_PBX)
                            when_found
                                      a.y == GLdef on sm(pcr_num);
                end
        end
```

**Exhibit 1-19 if Statement**

Exhibit 1-17 consists of an `if-then` clause and an `else` clause, whereas Exhibits 1-18 and 1-19 consist of only an `if-then` clause.

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Note that the `begin` and `end` keywords are always present in both the `if-then` and `else` clauses of an `if` statement.

### 1.10.15.4 Assertion Statements

*Assertion statements* are statements that are used to assert that one or more specified conditions must be true. Assertion statements provide a powerful means of expressing data dependencies at a conceptual level. There are three types of assertion statements:

- simple assertion
- valid combination assertion
- find assertion

In all three types of assertions, if an assertion fails (that is not true), an error condition is identified.

### 1.10.15.5 General

#### 1.10.15.5.1 Simple Assertion Statements

Simple assertion statements are quite common. A simple assertion usually consists of a factor (see Subsection "Factors"), followed by an assertion operator, followed by a factor or factor list. In general, however, expressions can appear on either the left or right side of the assertion operator (see Subsection, "Expressions in Dependency Statements"). Simple assertions may be linked to a form a *compound assertion* (see Subsection, "Compound Assertions") or a logical expression by using the logical operators and (&&) and or (||). To force precedence of simple assertions in a compound assertion or logical expression, parentheses are used.

The simple assertion operators are as follows:

**Relational operators:**
== (equals)
!= (not equal)
> (greater than)
< (less than)
>= (greater than or equal)
<= (less than or equal)
**Bitwise operators:**
& (bitwise and)
| (bitwise or)
^ (bitwise eclusive)
<< (left shift)
>> (right shift)
**Boolean operators:**
&& (logical and)
|| (logical or)
! (logical not)
**Set operators:**
*is_in*
*subset_of*
*set_equals*
*union*
*intersection*
*minus*
**Pattern-matching operators:**
~== (is matched by)
~!= (is not matched by)

#### 1.10.15.5.2 General

##### 1.10.15.5.2.1 Arithmetic Operators

The five arithmetic operators (+, -, *, /, and %) are used to assert that some arithmetic relationship between the factors on the left and right sides of a simple assertion statement must be true.

The statement in Exhibit 1-20 states that two attributes must be equal to each other.

```
for ctinfo in RLctinfo
begin
     find == 1 stinfo in RLstinfo
     where (ctinfo.serv_tm == stinfo.serv_tm)
     when_found
     begin
          ctinfo.ct_optype == stinfo.st_optype;
     end
end
```

**Exhibit 1-20 Two Attributes**

Exhibit 1-21 shows other sample statements that contain the == and != operators.

```
A global parameter must be equal to the value of a variable, as in
     Glospsid == reroute;

An  attribute must not be equal to a constant, as in
     ctinfo.cw_on != 15;

Two tuples must be  equal (attribute by attribute) to each other, as in
     /* the am must replicate all sm RLctinfo tuples */
     for ctinfo in RLctinfo
     begin
          find == 1 tctinfo in RLctinfo
          where (tctinfo == ctinfo);
     end
```

**Exhibit 1-21 Arithmetic Samples**

The statement in Exhibit 1-22 states that the value of one attribute must be greater than the value of another attribute.

```
for ctinfo in RLctinfo
begin
     ctinfo.cw_on > ctinfo.cw_off;
end
```

**Exhibit 1-22 Attribute Value**

Exhibit 1-23 shows other sample statements that contain the > (greater than) and < (less than) operators.

An attribute must be greater than or equal to a constant value, as in

```
ctinfo.rcall_type >= 27;
```

**Exhibit 1-23 Attribute Constant Value**

The value of a global parameter must be less than or equal to the value of an attribute within a particular tuple, as in

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```
Glint_flow <= ctinfo.cw_on;
```

In Exhibit 1-24 , a single element of an array attribute, that is, `stinfo.ctmask[arr_idx]` , must be equal to a constant.

```
if (maskidx == 1) then
begin
     stinfo.ctmask[arr_idx] == 1;
end
```

**Exhibit 1-24 Single Element Attribute**

The array index inside the brackets ( [ ] ) may be any valid numeric expression (see Subsection "Expressions in Dependency Statements"). Exhibit 1-25 shows other sample statements that contain == and != operators involving arrays.

A single element of an array attribute must not be equal to an element of an array variable, as in Exhibit 1-25 .

```
stinfo.ctmask[arr_idx] != new_array[arr_idx];
```

**Exhibit 1-25 Single Element Array**

Element 2 of an array variable must not be equal to a constant, as in

```
new_array[2] != 14;
```

Exhibit 1-26 illustrates bit slicing in simple assertion statements. Bit slicing allows individual bits within an attribute, variable, or parameter to be referenced. The assertion in Exhibit 1-26 illustrates the use of such a bit-index. The attribute `memnum` is an array, and the `[aix]` notation is used to indicate which element of the array is being referenced. In addition, the `{bix}` notation is used to indicate which bits of the referenced element are being referenced.

```
let bix = 5;
let aix = 7;
if (group_port.member is_in { 1 thru 2015 }) then
begin
     rt_lgmem.memnum[aix]{bix} == 0B1;
end
```

**Exhibit 1-26 Bit Slicing**

The right side of the statement is expressed as a binary constant, `0B1`, but a statement of the form

```
rt_lgmem.memnum[aix]{bix} == 1;
```

is also valid. The bit index that is contained in the braces ( { } ) may be any valid numeric expression, or it may be a range of expressions separated by a colon (see Subsection "Expressions in Dependency Statements").

Exhibit 1-27 shows other sample statements that contain == and != operators involving bit slicing.

A string of bits of a single element of an array attribute must be equal to a constant, as in

```
rt_lgmem.memnum[aix]{9:11} == 0B101;
```

**Exhibit 1-27 Bit Single Element**

A string of bits of an attribute cannot all be set to 1, as in

```
ctinfo.ctname{9:12} != 0B1111;
```

Exhibit 1-28 illustrates the use of a *pseudoarray attribute* in a simple assertion statement. A pseudoarray attribute is a sequence of systematically named attributes, which can be referenced in checks statements. The assertion in

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Exhibit 1-28 illustrates the use of one element of a pseudoarray. The attribute `sup_tm` is not really an array but rather a group of eight identically defined attributes. The `[idx]` notation is used to indicate which attribute in the attribute group is being referenced. The pseudoarray index inside the parentheses may be any valid numeric expression (see Subsection "Expressions in Dependency Statements").

```
ctinfo.serv_tm != ctinfo.sup_tm[idx];
```

**Exhibit 1-28 Pseudoarry Attribute**

The statement in Exhibit 1-28 indicates that the `serv_tm` attribute must not be equal to the `idx`'th `sup_tm` attribute.

Exhibit 1-29 shows other sample statements that contain arithmetic operators involving pseudoarray attributes.

The attribute `dotflw2` must be greater than or equal to the attribute `dotflw1`, the attribute `dotflw3` must be greater than or equal to the attribute *dotflw2*, and so forth, as in

```
for x in { 2 thru 8 }
 begin
      ctinfo.dotflw[x] >= ctinfo.dotflw[x-1];
 end
```

**Exhibit 1-29 dotflw2 Attribute**

If any attribute in the attribute group `sup_tm1` through `sup_tm8` is not equal to zero, then all of the previous attributes in the group must not be equal to zero. For example, if `sup_tm2` is not zero, then `sup_tm1` must not be zero; if `sup_tm3` is not zero, then `sup_tm1` and `sup_tm2` must not be zero, and so forth, as in

```
for x in { 2 thru 8 }
 begin
      if (ctinfo.sup_tm[x] != 0) then
      begin
           ctinfo.sup_tm[x-1] != 0;
      end
 end
```

Exhibit 1-30 illustrates the use of a synonym of the *let* operator. First, a `find` assertion statement is assigned to *x* with a `let` statement (see Section "The 'let' Statement"). The name *x* is then used in a simple assertion statement.

```
let x = find >= 1 rt_lgmem in RLrt_lgmem
          where (rt_lgmem.grpnum == rt_mhg.grpnum);
     .
     .
     .
if (maskidx == 1) then
begin
     x == true;
end
```

**Exhibit 1-30 Synonym - Simple Assertion Statement**

### 1.10.15.5.2.2 Set Membership Operators

Three set-membership operators are available in PRL 5.0:

- *is_in*

- *subset_of*
- *set_equals*

The *is_in* operator is used to assert that a factor (see Subsection "Factors") is a member of a set. The *subset_of* operator is used to assert that one set is contained in another set. The *set_equals* operator is used to assert that two sets are the same. Each of these operators evaluates to either true or false. In general, a set is delimited by enclosing its members between braces ( { } ).

The statement in Exhibit 1-31 indicates that the value of an attribute must be in the set of integers between 1 and 250, inclusive.

```
if (rt_scrning.route_type == RTE_ATDN) then
begin
     rt_scrning.route_x is_in { 1 thru 250 };
end
```

**Exhibit 1-31 Set Value of Attribute**

Exhibit 1-32 shows other sample statements that contain the *is_in* operator.

```
The value of an attribute must be one of a set of enumerated values,  as in
     fc_porttyp.protocol is_in { PCDOLH3, PCDILH3 };


A variable must not be one of a set of values, as in
     ! (start_signal is_in { 1 thru 25, 50, 75 thru 80, 100 });
```

**Exhibit 1-32 is_in Operator**

The value of an attribute must not be in the set of values of a pseudoarray attribute; the array index inside the parentheses may be any range of expressions separated by a colon rather than just constants as shown here (see Subsection "Expressions in Dependency Statements").

```
     ! (ctinfo.serv_tm is_in { ctinfo.sup_tm[1:8] });
```

The simple assertion statement in Exhibit 1-33 says that one set of values must contain another set of values. The set on the left side of the operator is the set of values for the `RLrt_scrning.prefix` attribute that is formed by using the grouping construct in the `for` statement. Therefore, the `group` keyword is used, which obviates the need to express this set in braces ( { } ). The set on the right side of the operator represents a set of enumerated

```
/* Every group of tuples with equivalent screen_x and dest_x
      * must contain one tuple for at least the 3 emulated
      * values of prefix.
      */
     for grt_scrning in RLrt_scrning
     grouped_by {screen_x, dest_x}
     begin
          {FCPEX_0, FCPFX_1, FCPEX_NONE} subset_of grt_scrning.prefix;
     end
```

**Exhibit 1-33 Set of Values**

Whenever the `subset_of` assertion operators are used in a simple assertion, both of the operands must represent sets of values. Exhibit 1-34 presents other sample statements that contain `subset_of` operators.

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The set of values represented by the list of factors on the left side of the statement must contain (that is, must be a subset of) the set of integer values on the right side of the statement, as in Exhibit 1-34 .

```
 { abc.attr1, count, Glint_flow, index, abc.attr2 } subset_of { 12,
14, 23, 56, 63, 88, 96 };
```

**Exhibit 1-34 subset_of Statement**

The set of values represented by the list of factors on the left side must not contain (that is, must not be a subset of) the set of integer values on the right side. This means that at least one member of the set on the right side of the statement is not found in the set on the left side, as in

```
! ({ 12, 14, 96 } subset_of { abc.attr1, count, Glint_flow, index,
abc.attr2 });
```

An assertion can also be written to state that two sets must contain the exact same set of members, as in

```
     { 12, 14, 96 } set_equals { abc.attr1, count, abc.attr2 };
```

### 1.10.15.5.2.3 Pattern-Matching Operators

The two pattern-matching operators are used to assert that a string does or does not match a *regular expression*. A regular expression is specified by describing the regular expression as used in the *UNIX*® operating system. The regular expression is enclosed in double quotation marks (`" "`).

In Exhibit 1-35 , a variable must match a regular expression.

```
     string  == "[0-9]+";
```

**Exhibit 1-35 Variable Match**

In Exhibit 1-36 , an attribute must not match the regular expressions.

```
     risite.text  !=  "[0-9]+";
```

**Exhibit 1-36 No Variable Match**

### 1.10.15.5.2.4 Compound Assertions

The next two examples illustrate how simple assertions can be linked logically and how precedence can be forced by using parentheses.

Exhibit 1-37 is an assertion statement that is composed of two simple assertion statements that are linked by the logical *or* (`||`) operator.

```
     for rc_lcc in RLrc_lcc
     begin
          rc_lcc.termclass == FC_ISDN ||
               rc_lcc.servclass != FC_PROCALL;
     end
```

**Exhibit 1-37 Assertion Statement**

The assertion statement in Exhibit 1-38 consists of two other assertion statements that are linked by the logical *and* (`&&`) operator. The first of these assertions is itself a compound assertion statement that is linked by the logical *or* (`||`) operator. In this example, the parentheses are used to force the first assertion to be evaluated before the second assertion. Without the parentheses, the order of evaluation of the entire assertion statement would be reversed because the *and* operator has a higher precedence than the *or* operator.

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```
    for rc_lcc in RL_lcc
     begin
          if (current_pcr == ATDN) then
          begin
               (rc_lcc.termclass == FC_ISDN ||
                    rc_lcc.servclass != FC_PROCALL) &&
                    rc_lcc.termclass == RTTC_INDIVID;
          end
     end

     /* which is equivalent to */
     for rc_lcc in RL_lcc
     begin
          if (current_pcr == ATDN) then
          begin
               rc_lcc.termclass == RTTC_INDIVID;
               rc_lcc.termclass == FC_ISDN ||
               rc_lcc.servclass != FC_PROCALL;
          end
     end
```

**Exhibit 1-38 Logical Operator**

### 1.10.15.6 The Valid Combinations Statement

A *valid combinations statement* is used to specify valid combinations of values for a group of items. Valid combinations statements are illustrated in Exhibits 1-39 and 1-40 .

```
for fc_porttyp in RLfc_porttyp
begin
     combinations_of ( fc_porttyp.servclass, fc_porttyp.protocol )
     begin
          { FCLOHK, FCNAHK_TRUNK }, { PCDOLH3, PCDILH3 };
          FCLOMET_TRUNK, { PCDILM3, PCDOLM3 };
          FC_BSYVFY, PCIOPER3;
          FC_SPSOPER, PCDOLH3;
          FC_TRK_EMERG, PCAEMER3;
          TM_TSTK, PCALTT3;
     end
end
```

**Exhibit 1-39 Valid Combinations Statement**

```
if ! (fc_porttyp.serv_class is_in { FCLOHK, FCLOMET_TRUNK,
     FCNAHK_TRUNK, FC_BSYVFY, FC_SPSOPER }) then
begin
     combinations_of
     (
          fc_porttype.protocol,
          fc_trunk.in_sigtyp,
          fc_trunk.instartsig,
          fc_trunk.out_sigtype,
```

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```
          fc_trunk.out_startsig
     )
     begin
          { PCIEMHP2, PCIEMMP2 },
          DBDP,
          FCIMMED,
          DBNOSIG,
          FCSSNULL;
          { PCOEMHP2, PCOEMMP2 },
          *,
          FCSSNULL,
          DBDP,
          FCIMMED;
          {
               PCAILH1,
               PCAILH2,
               PCAILM2,
               PCDILH1,
               PCIEMH1,
               PCIEMHM2,
               PCIEMMM2
          },
          { DBMFC_V1, DBMFC_V2, DBMFC_V3, DBMFC_V4 },
          FCSTARTNA,
          DBNOSIG,
          FCSSNULL;
```

**Exhibit 1-40 Valid Combinations Statement**

```
          { PCDILH2, PCDILM2 },
          { DBMFC_V1, DBMFC_V2, DBMFC_V3, DBMFC_V4 },
          FCSTARTNA,
          DBNOSIG,
          FCSSNULL;
     end
end
```

Each group of values in a valid combinations assertion specifies a single combination of values that is legal for the set of valid combinations that is listed at the top of the table. In most cases, the list of valid combinations items at the top of the table is a list of attributes, global parameters, and/or variables, as shown in Exhibits 1-39 and 1-40 . In general, however, each valid combinations item can be any arbitrary expression (see Subsection "Expressions in Dependency Statements").

In Exhibit 1-39 , the valid combinations items are the attributes `fc_porttyp.servclass` and `fc_porttyp.protocol`. The table itself consists of five groups of valid values for these two combination table items. The first group of values consists of `{ FCLOHK, FCNAHK_TRUNK }`, and `{ PCDOLH3, PCDILH3 }`. This means that when the `servclass` attribute in relation `RLfc_porttyp` equals either `FCLOHK` or `FCNAHK_TRUNK` , then the `protocol` attribute in relation `RLfc_porttyp` must be either `PCDOLH3` or `PCDILH3` , and so forth for all other groups of values in the table. This information could be specified in other ways, but the valid combinations assertion is much more compact and less verbose than the other, more verbose constructs.

In any particular group of values, each value except the last value is followed by a comma, and each group of values is terminated with a semicolon. When more than a single value must be entered for a given item in a group, the set of values is enclosed in braces ( { } ). All of the groups of values combined represent all of the different legal combinations for the combination table items at the top of the table. If a group of values for the listed combination

table items does not match any of the combinations in the table, the assertion fails and an error condition is raised. For the valid combinations assertion to be valid, at least one of the combination table items must have all of its legal values specified in the table.

An asterisk (`*`) can be used to specify that any value is legal. An exclamation point (`!`) that is followed by a value or group of values can be used to specify that any value except those specified values is legal.

As shown in the Exhibits 1-39 and 1-40 , a combinations statement always contains the `begin` and `end` keywords.

### 1.10.15.7 The 'find' Statement

A `find` statement allows a programmer to count the elements in a set and simultaneously make an assertion about each element. The relation in which tuples are being looked for may be restricted to the AM, CMP, or to a particular SM or with a `where` clause in a manner similar to `for` statement operations.

### 1.10.15.8 General

#### 1.10.15.8.1 Key Words

The key words in `find` statements are `find`, `in`, `where`, and `when_found`. A sample `find` statement is shown in Exhibit 1-41 .

```
if (Glsub_sigtyp == RCNO_SUB) then
begin
     find == 0 rc_lcc in RLrc_lcc;
end
```

**Exhibit 1-41 find Statement Key Words**

Exhibit 1-41 illustrates the `find` statement in its simplest form, which is

```
find <relational operator> <tuple count> <tuple variable>
in <relation>;
```

If any tuples are found in the relation, the `find` assertion fails and an error condition is raised.

Exhibit 1-42 illustrates another `find` statement.

```
if (Glsub_sigtyp == RCNO_SUB) then
begin
     find == 1 rc_lcc in RLrc_lcc;
end
```

**Exhibit 1-42 find Statement**

The `find` statement in Exhibit 1-42 indicates that exactly one tuple must be present in the relation `RLrc_lcc`. If no tuples are in that relation, or if more than one tuple is found, then the `find` assertion fails and an error condition is raised.

Exhibit 1-43 illustrates another `find` statement.

```
if (Glsub_sigtyp == RCNO_SUB) then
begin
     find <= (rt_scrning.dest_x) rc_lcc in RLrc_lcc;
end
```

**Exhibit 1-43 Another find Statement**

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The `find` statement in Exhibit 1-43 indicates that there must be no more than `rt_scrning.dest_x` tuples in the relation `RLrc_lcc`; that is, the number of tuples is the value that is contained in the attribute `rt_scrning.dest_x`. If the number of tuples in that relation is greater than the value of `rt_scrning.dest_x`, then the `find` assertion fails and an error condition is raised.

### 1.10.15.8.2 Tuple List/Processor Specification

The following examples show how a qualifying processor is specified in a `find` statement. This statement is similar to the `for` statement. The qualifying processor specifies the tuples that the `find` statement searches.

```
for ctinfo in RLctinfo
 begin
      find >= 1 stinfo in RLstinfo
         where (ctinfo.sup_tm1 == stinfo.serv_tm);
 end
```

**Exhibit 1-44 find Statement Searches**

```
for ctinfo in RLctinfo
begin
     find >= 1 stinfo in RLstinfo on sm (12)
     where (ctinfo.sup_tm1 == stinfo.serv_tm);
end
```

**Exhibit 1-45 find Statement Searches**

```
for ctinfo in RLctinfo
begin
     find >= 1 stinfo in RLstinfo on xyz.port.module
     where (ctinfo.sup_tm1 == stinfo.serv_tm);
end
```

**Exhibit 1-46 find Processor Specification**

Exhibits 1-44 and 1-45 illustrate the use of the `on` clause for processor specification. Exhibit 1-46 illustrates the most general form of processor specification.

### 1.10.15.8.3 Tuple Variables

As shown in Exhibit 1-47 , a `find` assertion statement allows a *tuple* variable to be used to ensure that a relation reference is not ambiguous.

```
for ctinfo in RLctinfo
 begin
      find == 1 tctinfo in RLctinfo
      where (tctinfo.call_type == ctinfo.rcall_type)
      when_found
      begin
           tctinfo.ct_optype == ctinfo.ct_optype;
      end
 end
```

**Exhibit 1-47 Tuple Variable**

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The statement in Exhibit 1-47 asserts that for each tuple in the relation RLctinfo, there must be exactly one other tuple in which the rcall_type attribute of one tuple is the same as the call_type of the other tuple. The ct_optype attribute of the tuples must also match.

### 1.10.15.8.4 Finding Values

A find statement allows a variable to range over a list of values. The list of values may be attributes, global parameters, and/or variables. In Exhibit 1-48 , *value_id* is expected to be of the same underlying domain as the attributes in the list. This statement asserts that exactly two attributes have a nonzero value in the set of values that is listed between the braces. It also asserts that each of the two attributes found must have a value of less than 100.

```
for a in RLa
begin
     find == 2 value_id in { a.a1, a.a2, a.a3 }
     where (value_id != 0)
     when_found
     begin
          value_id < 100;
     end
end
```

**Exhibit 1-48 Find Statement Variable**

### 1.10.15.8.5 The 'where' Clause

The find statement provides a where clause that is used to specify a condition that must be true for the find statement to be true. Exhibit 1-49 illustrates the use of the where clause in a find statement.

```
for rc_lcc in RLrc_lcc
 begin
      find >= 1 rc_oeinfo in RLrc_oeinfo
      where (rc_oeinfo.lcc == rc_lcc.lcc &&
           rc_oeinfo.rax == rc_lcc.rax);
 end
```

**Exhibit 1-49 Where Clause in Find Statement**

This find statement asserts that for every tuple in relation RLrc_lcc at least one tuple must exist in relation RLrc_oeinfo in which the lcc and rax values of both relation tuples match. If no matching tuple is found in relation RLrc_oeinfo, the find assertion fails and an error condition is raised.

### 1.10.15.8.6 The 'when_found' Clause

In addition to the required items and where clause, the find statement also provides a when_found clause. The when_found clause is executed for each element of the array regardless of whether the count assertion is true. Exhibit 1-50 illustrates the use of the when_found clause in a find statement.

```
for rc_cninf in RLrc_cninf
begin
     find == 1 rc_lcc in RLrc_lcc
     where (rc_lcc.lcc == rc_cninf.lcc &&
          rc_lcc.rax == rc_cninf.rax)
```

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```
          when_found
          begin
               rc_lcc.servclass == FC_ISDN;
          end
     end
```

**Exhibit 1-50 When_Found Clause**

The `find` statement in Exhibit 1-50 illustrates the use of the `where` clause and the `when_found` clause together. A `when_found` clause may, however, be specified without a `where` clause. Any number of statements may be placed in the `when_found` block.

The `find` statement in Exhibit 1-50 indicates that exactly one tuple must exist in relation `RLrc_lcc` whose `lcc` and `rax` values match the corresponding `lcc` and `rax` values in some tuple in relation `RLrc_cninf`. When this matching tuple is found, the `servclass` attribute in relation `RLrc_lcc` must be `FC_ISDN`.

Two possible error conditions could arise as a result of this statement. The first error condition would occur if exactly one matching tuple in relation `RLrc_lcc` is not found (that is, zero matches are found) or if two or more matching tuples are found. If this occurs, the `when_found` clause is not executed and the entire `find` assertion fails.

If exactly one matching tuple is found in relation `RLrc_lcc`, another error condition could arise if the `servclass` attribute on the matching tuple does not equal `FC_ISDN`.

This double error condition can occur whenever a `when_found` clause is used in a `find` statement. The tuple existence assertion can fail, in which case the entire statement fails. Or, if the tuple existence is true, the assertions inside the `when_found` clause can fail.

Secondly, at first glance, the statement

```
find == 1 rc_lcc in RLrc_lcc
where (rc_lcc.lcc == rc_cninf.lcc &&
     rc_lcc.rax == rc_cninf.rax &&
     rc_lcc.servclass == FC_ISDN);
```

may appear to mean the same thing as the `find` statement in Exhibit 1-50 , but it does not. Suppose that two or more matching tuples can be on the `lcc` and `rax` attributes, but only one of the matching tuples has the correct value for `servclass`. In that case, the assertion in the previous exhibit would pass, whereas the `find` assertion in Exhibit 1-50 would fail.

### 1.10.15.8.7 Nested 'find' Statement

As shown in Exhibit 1-51 , a `find` statement may be nested inside the `when_found` clause of some other `find` assertion.

```
for rt_dntran in RLrt_dntran
begin
     find >= 1 rc_cninf in RLrc_cninf
     where (rc_cninf.module == rt_dntran.port.module &&
          rc_cninf.ph_number == rt_dntran.ph_number &&
          rc_cninf.ph_cn == rt_dntran.ph_cn)
     when_found
     begin
          find == 1 rc_lcc in RLrc_lcc
          where (rc_lcc.lcc == rc_cninf.lcc &&
               rc_lcc.rax == rc_cninf.rax)
```

```
                when_found
                begin
                     rc_lcc.termclass == rt_dntran.termclass;
                     rc_lcc.termclass == rt_dntran.pstermcl;
                end
           end
     end
```

**Exhibit 1-51 Nested Find Statement**

In Exhibit 1-51 , the second `find` statement is nested inside the `when_found` clause of the first `find` statement. Inside the `when_found` clause of the second `find` statement are two simple assertion statements. For every tuple in the relation `RLrt_dntran`, at least one matching tuple must be found in relation `RLrc_cninf`. When this matching tuple is found, the `lcc` and `rax` attribute values in that tuple are used to find a matching tuple between relations `RLrc_lcc` and `RLrc_cninf`. When this matching tuple is found, two simple assertions between the `RLrt_dntran` tuple and the `RLrc_lcc` tuple must be true.

### 1.10.15.9 The 'select' Statement

A `select` statement is used to perform alternate checks that are dependent on the value of some expression. An expression is selected, and this expression is compared for equality with expressions that are contained in one or more `when` clauses. When the first `when` clause expression that is equal to the `select` expression is found, the statement or block of statements that are associated with the matching `when` clause is executed. Only the statements that are associated with the first matching `when` clause are executed. If there are no matching `when` expressions, the statements that are associated with an optional `else` clause are executed.

Sample `select` statements are shown in Exhibits 1-52 and 1-53 .

```
for rt_scrning in RLrt_scrning
begin
     select (rt_scrning.route_type)
     begin
          when (RTE_ATDN):
          begin
               rt_scrning.route_x == 0;
          end
          when (RTE_DNTRAN):
          begin
               rt_scrning.route_x is_in { 1 thru 250 };
          end
          when (RTE_HUNT):
          begin
               rt_scrning.route_x is_in { 1 thru 3617 };
          end
          when (RTE_PRIME):
          begin
               rt_scrning.route_x == 0;
          end
          else
          begin
               false;
          end
     end
```

```
end

Note: "false" in the previous else part indicates that any other values are error
      conditions.
```

**Exhibit 1-52 Select Statements**

```
     select (cktdata.type, cktdata.cli)
     begin
          when ( PCMSMA, * ):
          begin
               . . .
          end
          when ( PCMSDST, 0 ):
          begin
               . . .
          end
          when ( PCMSALIT, {0, 1, 2} ):
          begin
               . . .
          end
    end
```

**Exhibit 1-53 Select Statements**

Exhibit 1-53 of the `select` statement illustrates the use of a list of expressions in `select when` clauses. When a `select` statement is used as shown in Exhibit 1-53 , a list of expressions rather than a single expression may be selected. If a list of expressions is selected, each `when` clause must have the same number of expressions that the `select` statement has.

If each `when` expression is equal to each corresponding `select` expression, the statement or block of statements that is associated with the matching `when` clause is executed.

As shown in Exhibits 1-52 and 1-53 , the `select` statement, `when` clauses, and `else` clause always contain `begin` and `end` keywords

### 1.10.15.10 The 'let' Statement

A `let` statement assigns expressions or statements to an identifier or set of identifiers. The `let` statements in PRL are similar to the macros that are available in other programming environments. The `let` statement should not be confused with an assignment to a variable, which it resembles.

A `let` statement can have parameters and can assign either a statement or an expression to an identifier name. A `let` statement can also assign a list of identifiers to an expression, if the expression returns a set of values. The `let` statement can have the following formats:

```
                                let identifier = expression;
               let identifier ( parameters) = expression;
               let identifier = statement ;
               let identifier ( parameters) = statement;
               let { identifier list } = expression;
```

This last `let` statement format is used for multiple simultaneous assignment; the `expression` must be of type array, and the array must have the same number of elements as the `identifier list`. This statement causes each subsequent use of the `i`*th* identifier in the list to mean "evaluate `(expression) [i]` and use that value." This construct is encountered only when a function must return multiple values, as in

let {a, b} = f(x, y, z)

Think of using a `let` statement in PRL 5.0 as defining a macro. Using a `let` statement differs from making variable assignments in several ways. A given identifier may not be assigned to be something else before the end of its scope. The scope of a `let` statement covers the smallest `begin` to `end` block in which it is contained.

If the compound statement is part of a looping construct (such as, a `for` statement), the value of the variable will not remain from one iteration to the next. Nor will it be available after the end of the loop. Unlike typical macros, however, names that are defined with `let` statements are treated as expressions, and they evaluate as though the body were contained in outer parentheses.

Sample `let` statements are shown in Exhibits 1-54 and 1-55 .

```
let SPD1 = 86400; /* secs per day */
let featid = 0x7400 | at_cf.fid;
let IntBitCnt(x) =
    count { i in { 0 thru 31 }
         where (x{i} == 1) };
let base(n) = n / 32;
let offset(n) = n % 32;
let ArrayBitCnt(a) =
    count { i in { 0 thru 32*(count a) - 1 }
     where (a[base(i)]{offset(i)} == 1) };
let IsAnOper =
    find >= 1 t in RLologinid
    where (t.serv_tm == servteam.serv_tm &&
     t.extdl_per == OA_RES);
```

**Exhibit 1-54 Let Statements**

Exhibit 1-55 shows how the nesting of `begin` to `end` blocks affects `let` statements.

```
/*
 * SCOPING EXAMPLE
 */
begin
     let x(n) = n / 16;
     /* x is available here */
     begin
          let y(n) = n % 16;
          /* x is available here */
          /* y is available here */
     end
     /* x is available here */
     /* y is NOT available */
end
```

**Exhibit 1-55 Nesting Blocks - Let Statements**

### 1.10.15.11 Expressions in Dependency Statements

Four types of expressions are used in dependency statements:

- factors

- sets
- binary expressions
- unary expressions

Each of these types of expressions are discussed in the following subsections of this document.

### 1.10.15.12 General

#### 1.10.15.12.1 Factors

A *factor* is the simplest type of expression and may be one of the following:

- an attribute (or subattribute or pseudoarray attribute)
- a global parameter
- a variable
- a function reference
- a macro reference
- a constant
  - a simple constant
  - a `count` clause
  - a `find` clause

The following are examples of factors:

```
! (ctinfo.serv_tm is_in { ctinfo.sup_tm(x:x+4) });
find <= ( rt_scrning.dest_x ) trc_lcc in RLrc_lcc;
select ( abcdef.attr1 )  ...
ctinfo.sup_tm[x-1] != 0;
if (ctinfo.ctname{x:x+5} != 0B111111) then ...
stinfo.ctmask[arr_idx / 2] != new_array[arr_idx / 2];
combinations_of
{
     abc.att1,
     abc.att2{9:11}
}  ...
ctinfo.cw_on <= Gl_intraflow;
ctinfo.cw_on <= Gl_intraflow on sm (pcrnum);
if !( start_signal is_in { 1 thru 25, 50 } ) then  ...
stinfo.ctmask[arr_idx / 2] != new_array[arr_idx / 2];
let string_val = itoa ( number ** 2 / x + 4 );
if ( length (risite.text) > 0 ) then ...
if (ctinfo.ctname{x:x+5} != 0B111111) then ...
rt_scrning.route_x == $ZERO;
```

```
for abc in RLabc on $CMP ...
 rt_scrning.route_x is_in { 1 thru $MAXHUNT };
for i in { 1 thru $SZCHKLST } ...
 let num_tuples = count {a in RLa where (RLa.x == 7)};
```

### 1.10.15.12.2 Sets

A *set* is an array of values without duplicates. The following are examples of typical set usage:

```
if !( start_signal is_in { 1 thru 25, 50 } ) then  ...
!( ctinfo.serv_tm is_in { ctinfo.sup_tm[x thru x+4] });
select  (rt_scrning.route_x)
begin
     when ({ 1 thru 250, 300, 400 thru 450 }): ...
end
if (rt_scrning.route_type is_in { RTE_HUNT, RTE_ATDN }) then ...
```

### 1.10.15.12.3 Binary Expressions

Most expressions are binary expressions, which are expressions in the following form:

*<left side> <binary-operator> <right side>*

In its simplest form, both the left and right sides of an expression, that is, the *operands* of the expression, are factors (see Subsection "Factors."). The operands of a binary expression may also be sets (see Subsection "Sets"). In addition, both the left and right sides of a binary expression may be expressions in themselves. This allows arbitrary nesting of binary expressions. By using the logical binary operators *and* (&&) and *or* (||), binary expressions can be linked to form more complex binary expressions. Binary expressions are evaluated in their order of precedence, but the precedence may be forced anywhere in a logical expression by using parentheses.

Binary expressions have the following operators:

| | |
|---|---|
| == | (equals) |
| != | (not equal) |
| < | (less than) |
| <= | (less than or equal) |
| > | (greater than) |
| >= | (greater than or equal) |
| + | (add) |
| - | (subtract) |
| * | (multiply) |
| / | (divide) |
| % | (modulo) |
| ** | (exponent) |
| && | (logical and) |
| \|\| | (logical or) |

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& (bitwise and)

| (bitwise or)

^ (bitwise exclusive or)

<< (left shift)

>> (right shift)

The following are set membership operators:

*is_in*

*subset_of*

*union*

*intersection*

*set_equals*

*minus*

The following are pattern-matching operators:

== (is matched by)

!= (is not matched by)

Precedence and associativity are summarized in the following diagram. Operators on the same row have the same precedence, and the rows are in order of decreasing precedence.

| Operator | Associativity |
|---|---|
| . | right to left |
| [ ] { } ( ) | left to right |
| ** | right to left |
| ! - | right to left |
| * / % | left to right |
| + - | left to right |
| << >> | left to right |
| on | right to left |
| intersection | left to right |
| union, minus | left to right |
| count, min, max, sum | NA [a] |
| thru, by | NA |
| < <= > >= | NA |
| == != == != | left to right |
| grouped_by, grouped_by_unordered | NA |
| in | NA |
| is_in, subset_of, set_equals | NA |
| & | left to right |
| ^ | left to right |
| \| | left to right |
| && | left to right |
| \|\| | left to right |
| ?: | right to left |
| = | NA |
| , | NA |

***Notes:***

a. Not applicable; the operators on a line do not have precedence over the other operators on the line.

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The following are examples of binary expressions:

```
if ( abc.att1 == y ** 2 ) then  ...
for group_port in RLgroup_port
 where ( group_port.portgrp.grptype == TM_LINE )  ...
 let truthval = rc_lcc.termclass == FC_ISDN ||
           rc_lcc.servclass != FC_PROCALL;
 find >= 1 rc_oeinfo in RLrc_oeinfo
 where ( rc_oeinfo.lcc == rc_lcc.lcc &&
      rc_oeinfo.rax == rc_lcc.rax );
 find <= ( rt_scrning.dest_x + 1) rc_lcc in RLrc_lcc;
 if ! ( start_signal is_in { 1 thru 25, 50 } ) then  ...
 if ( RLrt_scrning.prefix set_equals { FCPFX_0, FCPFX_1 } ) then ...
 ...  where ( risite.text  == "[0-9]+" )  ...
 if ( ctinfo.ct_optype == OSPSDA &&

      ctinfo.notify != ctinfo.coin_recall ) then  ...
 let string_val = itoa ( number ** 2 / x + 4 );
 select ( abcdef.attr1 % 10 )  ...
 if ( (abcdef.attr2 % 10) == 1 ) then ...
 combinations_of () begin
 {
      grpnum / 2,
      RLabcdef.attr1{9:11}
 }  ...
 let truth_val = (aidx < idx) && (bidx >= idx);
 Gl_intraflow * 2 <= ctinfo.cw_on;
 stinfo.ctmask[arr_idx / 2] != new_array[arr_idx / 2];
 new_array[arr_idx / 2] is_in { stinfo.ctmask[x:x+5] };
 if ( new_array[arr_idx / 2] is_in { stinfo.ctmask[x:x+5] } &&
      sm_num != 1 ) then  ...
 ctinfo.ctname{x * x+5 / y**2} == 0B1;
 ctinfo.ctname{x:x+5} != 0B111111;
 if ( ctinfo.sup_tm(x) != 0 ) then  ...
 ctinfo.sup_tm(x-1) != 0;
 ! (ctinfo.serv_tm is_in { ctinfo.sup_tm(x:x+4) });
```

### 1.10.15.12.4 Unary Expressions

Unary expressions are of the form

*<unary-operator>  <operand>*

In its simplest form, the operand is a factor (see Subsection "Factors"). The operand of a unary expression may also be a set (see Subsection "Sets"). The "operand" of a unary expression may itself be any arbitrary expression.

The unary expression operators are the following:

| | |
|---|---|
| ! | (not) |
| - | (bitwise not) |
| + | (plus) |
| - | (minus) |

The most common unary operators are *not* and *bitwise not*.

The following are examples of unary expressions:

```
!  (sig == DBNOSIG)
!  var_x || var_y
! (var1 >= var2) || (var1 <= var3)
!  (aidx < idx) && (bidx >= idx)
   ( ( ( x >> 8 ) * 2 ) & ( y & z ) )
```

### 1.10.15.12.5 Conditional Expressions

A *conditional expression* uses the C ternary operator (that is, ?:). Conditional expressions have the following format:

```
<expression> ? <expression> :<expression>
```

The first expression must be Boolean type, and the other two expressions must have the same type. If the first expression is true, a conditional expression evaluates to the value of the second expression. If the first expression is false, a conditional expression evaluates to the third expression.

The following are examples of conditional expressions:

```
(lnkgrp.network == CCNATL) ?
    Glnatl7sm : Glintl7sm
(Glintl7sm == Glpcr_id) ? {0 thru 40}
    : (Glnatl7sm == Glpcr_id) ? {1 thru 29} : {0}
```

Note that in the previous second example, the conditional expressions are nested. The third expression itself is a conditional expression.

### 1.10.15.12.6 Grouping Expressions

#### 1.10.15.12.6.1 Overview

A *grouping expression* partitions an array of tuples into a set of sets. The grouping is performed by the `grouped_by` expression. Each subset has identical values of a specified set of attributes. This construct is useful for treating related items as a group.

The following is an example of a group expression:

```
group-expression
     expression grouped_by { attribute-list }
     expression grouped_by_unordered { attribute-list}
```

#### 1.10.15.12.6.2 Semantics

These grouping expressions produce of array of tuples.

The initial expression must be a relation expression; each of its tuples will be in exactly one subset, and each subset will have values that are identical to the attributes that are specified in the attribute-list.

The `grouped_by_unordered` keyword is rarely used. When it is used, tuples in the same subset will have the same multiset of values for the given attributes, but which value comes from which attribute does not matter.

To see how a `grouped_by` expression works, suppose a relation `RLa` with two attributes `a, b` contains the following tuples:

```
    Relation RLa =
    { <x,2>, <y,1>, <y,3>, <z,2> }
```

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Grouping by the first attribute results in

```
    RLa grouped_by { a }:
    { {<x,2>}, {<y,1>, <y,3>}, {<z,2>} }
```

Grouping by the second attribute results in

```
    RLa grouped_by { b }:
    { {<x,2>, <z,2>}, {<y,1>}, {<y,3>} }
```

The following are examples:

```
RLch_clnm grouped_by { clnm }
{ x in RLch_clnm where (x.clnm != "") }
    grouped_by { clnm }
RLls_lnk on Gl_pcrid grouped_by {lsnum}
```

### 1.10.15.12.7 Bit Ordering and Array References

By convention, bits are ordered from low order to high order, or, equivalently, from right to left. The low-order bit of an attribute (or a parameter or variable) is always the right-most bit and is called Bit 0. The high-order bit is always the left-most bit. A *bit slice* is a contiguous ordered set of bits. For example, Bits 3 through 10 out of a 16-bit word would be a bit slice. The bits that are referenced in a bit slice are referenced from low order to high order. For example, the bit slice `ctname{9:12}` refers to the 10th bit from the right through the 13th bit from the right of the attribute `ctname`.

On the other hand, both arrays and pseudoarrays (that is, groups of identical attributes) are conventionally ordered from left to right and are numbered starting with zero. As a result, the array reference `ctname[4:6]` refers to the fifth byte from the left through the seventh byte from the left of the attribute `ctname` . Pseudoarrays, which are not really arrays but groups of identical attributes, are referenced similarly except that the numbering may begin at any number. Thus the pseudoarray reference `ctname[5 thru 7]` refers to attributes `ctname5` , `ctname6`, and `ctname7`.

### 1.10.15.12.8 Labels

Each statement in PRL 5.0 can have a statement label attached to it as a unique identifier. The statement label is placed before the statement, usually on the same line but possibly on the preceding line. The label consists of a string that ends with a colon. The label must be unique within a population rule file but may not necessarily be unique across all files. A statement in PRL 5.0 can be uniquely identified by a relation and label together. A label can be applied at various nesting levels so that one label may refer to an entire `for-loop`, whereas another label can identify some assertion within the same `for-loop`. In Exhibit 1-56 , `o23vb:` and `go134:` are labels.

```
PRL Version: 5.0;
description:
checks:
o23vb:    for argp in RLargp
          where (argp.thresh_frl != 31)
          begin
go134:            argp.thresh_frl <= argp.pq_frl;
                  argp.pq_frl != 31;
          end
```

**Exhibit 1-56 Label**

### 1.10.16 PRL 5.0 Functions

PRL 5.0 provides the ability to write functions. The programming style in functions is different than in a declarative specification of dependencies. Within functions, a more conventional programming style is allowed. This more conventional programming style is called "procedural PRL" or "functional" PRL. Whereas "declarative PRL 5.0" is

used to specify rules on the data, functional PRL 5.0 is generally used to calculate values or perform operations that cannot be written in declarative PRL. Functions are not intended to check data, but the `assert` statement is provided in such a way that a rule (assertion) can be placed inside a function if there is no alternative.

The function header includes the function name, parameters, and the type of data that is to be returned, as in the Exhibits 1-57 and 1-58 .

```
function atoi(string str) returning int
begin
    n = 0;
    i = 0;
    char = substr(str, i, 1);
    while (char  == "[0-9]")
    begin
        n = n*10 + index("0123456789", char);
        i = i + 1;
        char = substr(str, i, 1);
    end
    return n;
end
```

**Exhibit 1-57 Function Header**

The parameter and return-value types must be specified. A few simple types are built in, including

- Boolean, int, uint, and string.
- Many types that are implicitly defined as part of the *5ESS*®-2000 database definition (such as, enumerations, domains, and tuples).
- Type operators that are used to create new types from existing types (such as, T* designates an array with elements of type T).

```
function hunt_sm (DMGRPNUM mlhg) returning int
begin
        find == 1 rt_mhg in RLrt_mhg
        where (rt_mhg.grpnum == mlhg)
        when_found
                return rt_mhg.module;
        /* shouldn't get here */
        return am;
end
```

**Exhibit 1-58 Parameter and Return-Value**

### 1.10.17 General

#### 1.10.17.1 The Assignment Statement

Like the assignment statement in any other language, the assignment statement in PRL is the = (equal) symbol. The type of the left side of an assignment statement must agree with the type of the right side.

#### 1.10.17.2 General

#### 1.10.17.2.1 Assignment to Simple Variables

Exhibits 1-59 through 1-67 illustrate assignments to simple variables. In Exhibit 1-59 , the variable `idx` is assigned the value of the attribute `group_port.member`.

```
idx = group_port.member;
```

**Exhibit 1-59 idx Variable**

In Exhibit 1-60 , the variable `aidx` is subtracted from the variable `idx`. The result is shifted right by 5 bits, and the final result is assigned to the variable `bidx`.

```
bidx = (idx - aidx) >> 5;
```

**Exhibit 1-60 bidx Variable**

In Exhibit 1-61 , the Boolean variable `var` is assigned the truth value of a simple assertion statement.

```
var = group_port.member == 100;
```

**Exhibit 1-61 var Variable - simple Statement**

In Exhibit 1-62 , the Boolean variable `var` is assigned the truth value of a `find` statement.

```
var = find >= 1 rt_lgmem in RLrt_lgmem
          where (rt_lgmem.grpnum == rt_mhg.grpnum);
```

**Exhibit 1-62 var Variable - find Statement**

In Exhibit 1-63 , the Boolean variable `var` is assigned the truth value of a logical expression (see Subsection "Expressions in Dependency Statements").

```
var = (aidx < idx) && (bidx >= idx);
```

**Exhibit 1-63 var Variable - Logical Expression**

Exhibit 1-64 indicates how the result of a function call is assigned to a variable. The integer variable `varx2` is assigned the value that is returned from the call to the built-in function length.

```
fum = "some string";
varx2 = length (fum);
```

**Exhibit 1-64 varx2 Variable**

Exhibit 1-65 also indicates how the result of a function call is assigned. In Exhibit 1-65 , however, the assignment is made to a list of variables rather than to a single variable. This form of assignment statement is used whenever the function that is being referenced in the function call returns more than a single value. The variables `var1`, `var2`, and `var3` are assigned the values that are returned from the call to the function `compute_indexes` .

```
{var1, var2, var3} = compute_indexes (RLabc.member);
```

**Exhibit 1-65 List of Variables**

Exhibit 1-66 illustrates the assignment of a count expression (see Section "Expressions in Dependency Statements") to a variable. The variable `num_tuples` is assigned the value of the number of counted tuples.

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```
num_tuples = count { abc in RLabc
            where (RLabc.x == 7) };
```

**Exhibit 1-66 Count Expression**

Exhibit 1-67 illustrates *bit slicing*. In the assignment statement in Exhibit 1-67 , a string of bits is assigned in sequence to bit positions 9 through 11 of the integer variable `varx1`. The right side of the statement is expressed as a binary constant, but a statement in the following form is also valid:

```
varx1{9:11} = 5;
```

```
int     varx1;
     .
     .
     .
varx1{9:11} = 0B101;
```

**Exhibit 1-67 varx1 Variable**

The bit slice may be of length 1; that is,

```
varx1{9} = 0B1;
```

The elements inside the braces ( { } ) may be any valid numeric expression or a range of expressions separated by a colon (see Subsection "Expressions in Dependency Statements").

### 1.10.17.2.2 Assignment to Array Variables

Exhibits 1-68 through 1-74 illustrate how assignments to array variables are made.

In Exhibit 1-68 , the four factors inside the braces ( { } ) are assigned in sequence to the four elements of the integer array `arr`, that is,

```
     arr[0] = RLctinfo.cw_on;
arr[1] = RLctinfo.cw_off;
arr[2] = total;
arr[3] = index;
```

```
{arr[0 thru 3]} = { ctinfo.cw_on, ctinfo.cw_off, total, index };
```

**Exhibit 1-68 arr Array**

The array slice may be of length 1; that is,

```
arr[1] = RLctinfo.cw_off;
```

The elements inside the brackets ( [ ] ) may be any valid numeric expression or a range of expressions separated by a colon (see Subsection "Expressions in Dependency Statements").

Exhibit 1-69 has the same effect as Exhibit 1-68 ; the * notation is shorthand for 0:3.

```
arr[ * ] = { ctinfo.cw_on, ctinfo.cw_off, total, index };
```

**Exhibit 1-69 arr Array**

Exhibit 1-70 illustrates the notion of *array slicing*. The two factors inside the braces ( { } ) are assigned in sequence to an array slice. The array slice is Elements 1 and 2 of the integer array `arr`; that is,

```
arr[1] = RLctinfo.cw_off;
arr[2] = total;
```

Elements 0 and 3 of the array are unchanged.

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```
{arr[1 thru 2]} = { ctinfo.cw_off, total };
```

**Exhibit 1-70 Array Slicing**

The array elements inside the brackets ( [ ] ) may be any range of expressions separated by a colon (see Subsection "Expressions in Dependency Statements").

In Exhibit 1-71 , the variable `index` is assigned to the last array element of the integer array `arr`; that is,
*arr[3] = index;*
The `$` notation is shorthand for the last element.

```
arr[ $ ] = index;
```

**Exhibit 1-71 Shorthand**

Exhibit 1-72 illustrates *bit slicing*. In this assignment statement, a string of bits is assigned in sequence to Bit Positions 12 through 14 of Element 2 of the integer array `arr`. The right side of the statement is expressed as a binary constant, but a statement in the following form is also valid:

```
arr[2]{12:14} = 6;
```

```
arr[2]{12:14} = 0B110;
```

**Exhibit 1-72 Bit Slicing**

The bit slice may be of length 1; that is,

```
arr[2]{12} = 0B1;
```

The elements inside the braces ( { } ) may be any valid numeric expression or a range of expressions separated by a colon (see Subsection "Expressions in Dependency Statements").

Exhibit 1-73 illustrates both array slicing and bit slicing. In this assignment statement, two strings of bits are assigned in sequence to Bit Positions 12 through 14 of Elements 1 and 2 of the integer array `arr`.

```
{arr[1 thru 2]{12:14}} = { 0B110, 0B111 };
```

**Exhibit 1-73 Array and Bit Slicing**

The elements inside the brackets ( [ ] ) and the elements inside the braces ( { } ) may both be any range of expressions separated by a colon (see Subsection "Expressions in Dependency Statements").

### 1.10.17.3 Different Constructs in Functions

Most of the same PRL 5.0 constructs that were described in earlier sections of this documents are also used in functions. Some additional constructs are used in functions, however, and some of the constructs that are used in other types of statements perform somewhat differently when they are used in functions.

A `while` statement is a general looping construct and is legal only in functions. The expression must be Boolean-typed. If the expression evaluates to true, the statement is executed. This action is repeated until the expression evaluates to false. Execution then continues after the `while` statement.

A while statement has the following format:

```
while (expression) ...;
```

The `break` and `return` statements are also legal only in functions. A `break` terminates the smallest enclosing `while`, `for`, or `find` statement. For more information on break statements, see Subsection "The 'break' Statement."

A `return` statement causes the function to return immediately, giving the value of the expression as the function

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call expression value. The type of the expression must match the type that is defined in the function header.

The following statements from declarative PRL 5.0 are used in functions, with slight changes to the semantics:

- In an `if` statement, either the statement following the `then` is executed or the statement following the `else` is executed (if one is present), depending on whether the expression is true or false.
- In a `compound-statement`, the statements are executed in the order in which they appear. Neither `let` statements nor function definitions are allowed within functions.
- In a `for` statement, the statement is executed several times. Each time that the statement is executed, the identifier before the `in` clause is assigned to the next element from the array after the `in` clause. The identifier's value is undefined on normal termination of a `for` statement.
- The `select` statement executes a selected statement from a list of `when` clauses. The selected statement is chosen in the same way as with declarative PRL.

Other declarative statements make no sense in a function and are therefore prohibited. For example, `combinations_of` and `find` statements are meaningless as function statements.

### 1.10.17.4 The Assert Function

Functions in PRL 5.0 were not intended to perform checks, but a check can be performed with an `assert` statement. Using the `assert` built-in function causes the expression that is enclosed in parentheses to be evaluated as a Boolean function, evaluating to either true or false. Of course, the expression within the parentheses must evaluate to either true or false. An assert function is used only within functions.

Exhibit 1-74 is a sample `assert` statement:

```
function func2() returning boolean
begin
     for  acsr_usr in RLacsr_usr
    begin
        find == 1 dslequip in RLdslequip on sm(acsr_usr.own_mod)
        where (dslequip.dsl == port)
        when_found
        assert(dslequip.acsr_gpid == acsr_usr.acsr_gpid);
    end
    return true;
end
```

**Exhibit 1-74 assert Statement**

### 1.10.17.5 The 'break' Statement

A `break` statement forces the termination of an enclosing `while`, `for`, or `find` assertion statement before its natural termination. Exhibit 1-75 is a sample `break` statement:

```
for abc in RLabc
begin
        find == 1 def in RLdef
        where  ( . . . )
        when_found
```

```
        begin
                find >= 1 xyz in RLxyz
                where  ( . . . )
                when_found
                begin
                        if ( xyz.a == 1 ) then
                        begin
                                . . .
                                break;
                        end
                end
        end
end
```

**Exhibit 1-75 break Statement**

The `break` statement exits out of the innermost `find` statement.

### 1.10.17.6 The 'return' Statement

A `return` statement is used to exit the function and return its values. A function can return multiple values only as an array.

A `return` statement has the following format:

*`return expression;`*

### 1.10.17.7 Built-in Functions and Let Statements

The following built-in functions are defined to simplify specification of the population rules.

| Function | Meaning |
|---|---|
| am | the processor number of the AM |
| sm_all | the array of all legal SM numbers |
| all | am union sm_all |
| cmp | the processor number of the CMP |
| current_pcr | current processor number |
| sm(x) | the processor number for SMx |
| is_uniq(x) | number of unique x |
| uniq(x) | array of all elements in x, with duplicates removed |
| itoa(x) | string value of integer x |
| atoi(s) | integer value of string s |
| length(s) | integer length of string s |
| concat(s1,s2) | string resulting from appending s2 to the end of s1. |
| strlen(s) | integer length of strings (synonym of length(s)) |
| strcat(s1,s2) | string resulting from appending s2 to end of s1 (synonym of concat(s1,s2)) |
| substr(s,i,n) | substring of strings, starting with the ith character and containing n characters |
| get_gpd_pcrlist(gt,gi) | return a pcrlist value to be used for group partitioned relations |
| getenv(env) | return the value for the environment variable env |
| gpd_pcr(gt,gi) | return a particular processor p, where get_gpd_pcrlist(gt, gi) [p] == true |

| | |
|---|---|
| new(t,x) | create new variable of type t and length x |
| OnBitsInArray(a) | number of bits that are set to 1 in the array of integer-valued elements, a. |
| OnBitsInInt(x) | number of bits that are set to 1 in the integer-valued argument x |
| enum2int(v) | coerces an enum value into an int |
| int2enum(t,v) | coerces an integer value into a specified enum value [v = value, t = type] |

The functions that do not appear in the preceding table but are commonly used are located in the applications files.

## 1.11 GLOBAL PARAMETERS

Each switching office has a set of global parameters that define office constants. These constants are accessible to any processor and vary from office to office, depending on the function (that is, local, toll) and the provided features. Global parameters that begin with `Gl` are global office parameters; those that begin with `DB` are database-related parameters that are not touched by RC/V and ODA.

This document presents the domain distribution type, default value, distribution rules, and population rules of each global parameter. The domains (sets of possible values) for global parameters are the same as the domains for the attributes of relations. "Processor" refers to the module in which the global parameter resides, that is, the AM, SM, CMP, or a combination of those elements of the *5ESS* ®-2000 switch.

Global parameters may have the following basic distribution types:

| | |
|---|---|
| FP (Fixed Partitioned) | The global parameter exists in all SMs, but its value differs from one SM to another. |
| FR (Fixed Redundant) | The global parameter exists in all SMs, and its value is the same from one SM to another. |
| LP (Logical Partitioned) | The global parameter is populated differently in the AM and the CMP. |
| LR (Logical Redundant) | The global parameter exists in both the AM and the CMP, and its value is the same in both processors. |

These basic distribution types can be combined to form more complex distribution types.

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## 2. RELATIONS

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## 2.1 RELATIONS: 9

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# 96DFISID

## 1. Description

This relation will convert an interface module number, a DCLU, and a *SLC*® dfi number into a global *SLC*® identification (SID) number, facility, and the local rt number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 500 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | CIO |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| linear | DBYES |

## 3. Field Layout

```
96DFISID    relid = 70    DBSTATIC   DBACC_HASH  DBPRAM    LP      CIO

     sid         DMSHORT      (short)
     facility    DMCHR        (char)
     im          DMMODULE     (ushort: 8)       <--- key
     sdfi        DMUNS5       (ushort: 5)       <--- key
     dclu        DMUNS3       (ushort: 3)       <--- key
     lrt         DMUNS3       (ushort: 3)
         User, Compacted and Stored Tuple Layout   96DFISID
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |              sid              |    facility   |       im      |
    |---------------+---------------+---------------+---------------|
    |         |     |     |                                         |
  4 |   sdfi  | dclu| lrt |*****************************************|
    |---------------+---------------+---------------+---------------|
                              ( 8 bytes )
```

## 4. Population rules for RL96dfisid

### Relation Description

```
Digital Facility Interface to Subscriber Loop Carrier ID Conversion Relation

        This relation will convert an interface module number, a dclu,
        and a SLC(R) dfi number into a global SLC(R) identification (SID) number,
        facility, and the local rt number.

        This relation maps an IM number, DCLU number and SDFI switch personnel
        number (0 to 29) into the associated RT number (1 to 6),
        facility (A, B, C, D or P), and SID.
```

**Attribute:**

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im

**Fullname:**

module identifier

**Attribute Description:**

Switching Module (or IM) number

**Attribute:**

dclu

**Fullname:**

dclu number

**Attribute Description:**

Digital Carrier Line Unit number

**Attribute:**

sdfi

**Fullname:**

SLC(R) DFI number

**Attribute Description:**

sdfi - SDFI switch personnel number (0 to 29)

**Attribute:**

sid

**Fullname:**

SLC(R) identification number

**Attribute Description:**

Subscriber Loop Carrier (SLC(R)) Identification Number

**Attribute:**

facility

**Fullname:**

T1 facility

**Attribute Description:**

T1 facility serving type (A,B,C,D or P)

**Attribute:**

lrt

**Fullname:**

dclu local remote terminal number

**Attribute Description:**

DCLU local remote terminal number (1 to 6)

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# 96SIDLRT

## 1. Description

This relation will convert a *SLC*® identification (SID) number and a facility into an interface module number, a DCLU, a *SLC*® DFI number, and a local rt number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 500 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | CIO |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
96SIDLRT    relid = 155   DBSTATIC   DBACC_HASH  DBPRAM    LP      CIO

     sid         DMSHORT      (short)   <--- key
     facility    DMCHR        (char)    <--- key
     im          DMMODULE     (ushort: 8)
     sdfi        DMUNS5       (ushort: 5)
     lrt         DMUNS5       (ushort: 5)
     dclu        DMUNS3       (ushort: 3)
         User, Compacted and Stored Tuple Layout   96SIDLRT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |               |               |
  0 |               sid               |    facility   |       im      |
    |---------------+---------------+---------------+---------------|
    |         |         |     |                                       |
  4 |   sdfi  |   lrt   | dclu|***************************************|
    |---------------+---------------+---------------+---------------|
                         ( 8 bytes )
```

## 4. Population rules for RL96sidlrt

### Relation Description

```
Subscriber Loop Carrier ID to Local Remote Terminal Number
Conversion Relation

        This relation will convert a Subscriber Loop Carrier (SLC(R))
        identification (SID) number and a facility into an interface
        module number, a DCLU, a SLC(R) DFI number,
        and a local rt number.

        RL96sidlrt (Map SID To Associated Equipment)
        Maps SID and facility type (A, B, C, D or P) to
        the IM number, DCLU number, SDFI switch personnel number
        and RT number.
```

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QUANTITY OF TUPLES:

1 tuple per T1 facility (no tuple exists until the SDFI serving this T1 facility is assigned to an RT)

**Attribute:**
sid
**Fullname:**
SLC(R) (Subscriber Loop Carrier) Identification Number
**Attribute Description:**
sid (KEY1) - SLC(R) identifier

**Attribute:**
facility
**Fullname:**
T1 Facility
**Attribute Description:**
facility (KEY2) - T1 facility serving type (A, B, C, D or P)

**Attribute:**
im
**Fullname:**
Module identifier
**Attribute Description:**
SM (or IM) number

**Attribute:**
dclu
**Fullname:**
Digital Carrier Line Unit number
**Attribute Description:**
DCLU number

**Attribute:**
sdfi
**Fullname:**
Subscriber Loop Carrier (SLC(R)) digital facility interface (dfi)
**Attribute Description:**
sdfi - SDFI switch personnel number (0 to 29)

**Attribute:**
lrt
**Fullname:**
Digital Carrier Line Unit Local Remote Terminal Number
**Attribute Description:**
RT number

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## 2.2 RELATION: A

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# AAAA

## 1. Description

This is a dummy relation which is used to create a work around for compacted domains.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FR |
| relation type | TLA |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| permutation type | perm |

## 3. Field Layout

```
AAAA        relid = 1755  DBSTATIC   DBACC_LIN   DBPRAM    FR      NULL


     dumport     DMPORT       (ushort)
     dumedigit   DMEDIGIT     (char)
     dumrax      DMRAX        (ushort: 7)
 (a) dumkey      DMBOOL       (enum: 1) <--- key
 (b) dumtsbal    DMTSBAL      (enum: 2)
     dumedn32    DMCEDN32     (struct)
         digcnt      DMDCNT32     (ushort: 6)
         edn32a      DMBCD8       (ulong)
         edn32b      DMBCD8       (ulong)
         edn32c      DMBCD8       (ulong)
         edn32d      DMBCD8       (ulong)
     dumednтg    DMCEDNTG     (struct)
         dcnt32      DMDCNT32     (ushort: 6)
 (c)     tgsr_ov     DMBOOL       (enum: 1)
         edn32a      DMBCD8       (ulong)
         edn32b      DMBCD8       (ulong)
         edn32c      DMBCD8       (ulong)
         edn32d      DMBCD8       (ulong)
     dumdig18    DMDIG18      (struct)
         digcnt      DMDCNT18     (uchar: 5)
         dn          DMSTRING18   (array [ 18 ] of char )
     dumbilldn   DMCBLDN      (struct)
         digcnt      DMDIGCNT     (uchar: 4)
         npanxx      DMCHAR6      (array [ 6 ] of char )
         digits      DMCHAR4      (array [ 4 ] of char )
         nulstr      DMCHAR5      (array [ 5 ] of char )
     dumcdig18   DMCDIG18     (struct)
         digcnt      DMDCNT18     (uchar: 5)
         dig1        DMCHAR       (char)
         dig2        DMCHAR       (char)
         dig11       DMUNS4       (ushort: 4)
         dig3        DMUNS4       (ushort: 4)
         dig12       DMUNS4       (ushort: 4)
         dig4        DMUNS4       (ushort: 4)
```

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```
    dig13       DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
    dig16       DMUNS4       (ushort: 4)
    dig8        DMUNS4       (ushort: 4)
    dig17       DMUNS4       (ushort: 4)
    dig9        DMUNS4       (ushort: 4)
    dig18       DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
dumdigstr   DMKDIGSTR    (array [ 8 ] of char )
dumdn       DMCDN        (struct)
    dig8        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
    dig9        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
    dig11       DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig13       DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
dumdn15     DMCDN15      (struct)
    digcnt      DMDIGCNT     (uchar: 4)
    dig1        DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
    dig8        DMUNS4       (ushort: 4)
    dig9        DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
    dig11       DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
    dig13       DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
dumbcd      DMKBCD7      (array [ 4 ] of char )
dumdngrp    DMKDNGRP     (struct)
    noc         DMNOC        (ushort: 14)
    index       DMUNS7       (ushort: 7)
dumlocdn    DMKLOCDN     (struct)
    noc         DMNOC        (ushort: 14)
    index       DMUNS14      (ushort: 14)
```

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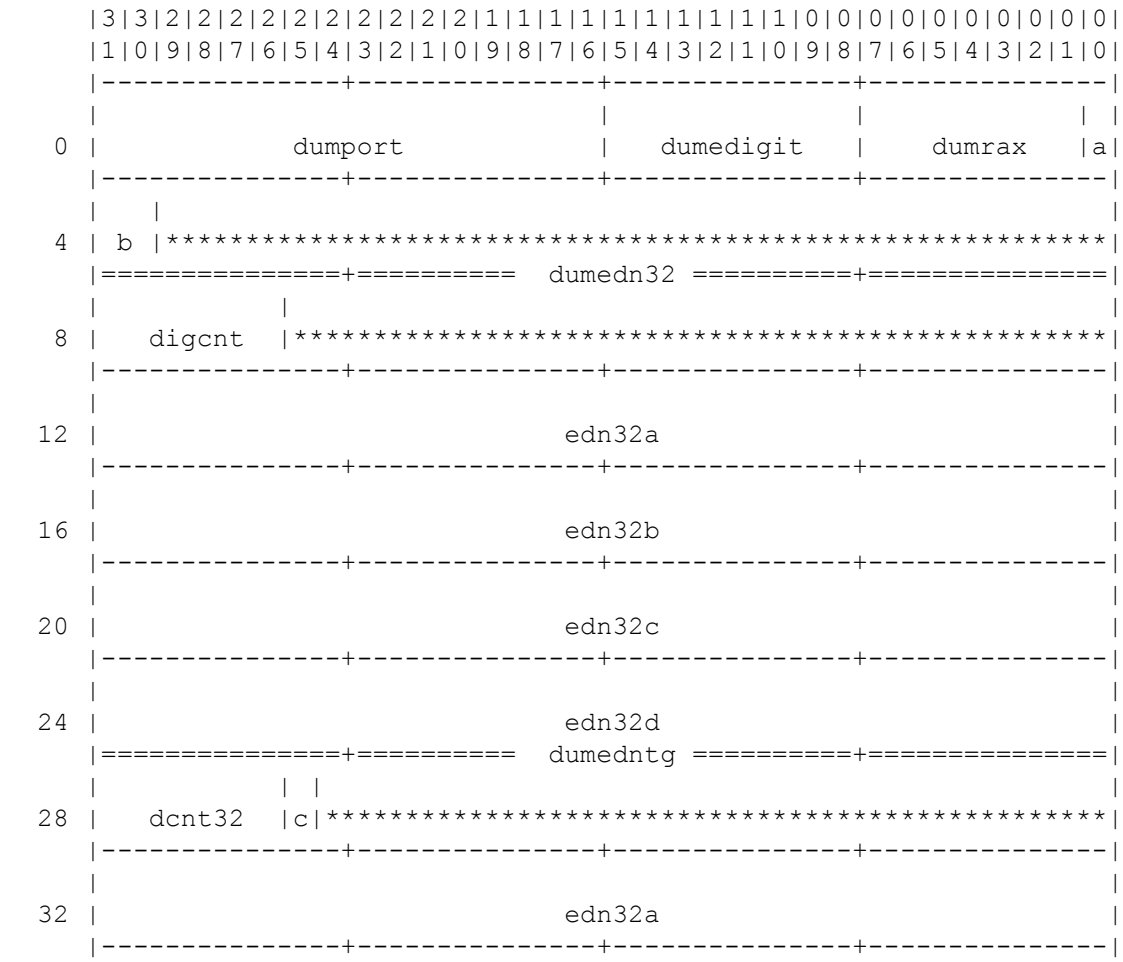
```
    dumdn7      DMCDN7       (struct)
(d)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    dum2locdn   DMCLOCDN     (struct)
        noc         DMNOC        (ushort: 14)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
    dumprtgp    DMCPRTGP     (struct)
(e)     zerobits    DMUNS3       (ushort: 3)
        grpnum      DMGRUPNM     (ushort: 13)
(f)     grptype     DMPTYPE      (enum: 1)
    dumxdig18   DMDIG18      (struct)  <--- compacted
        digcnt      DMDCNT18     (uchar: 5)
        dn          DMSTRING18   (array [ 18 ] of char )
```

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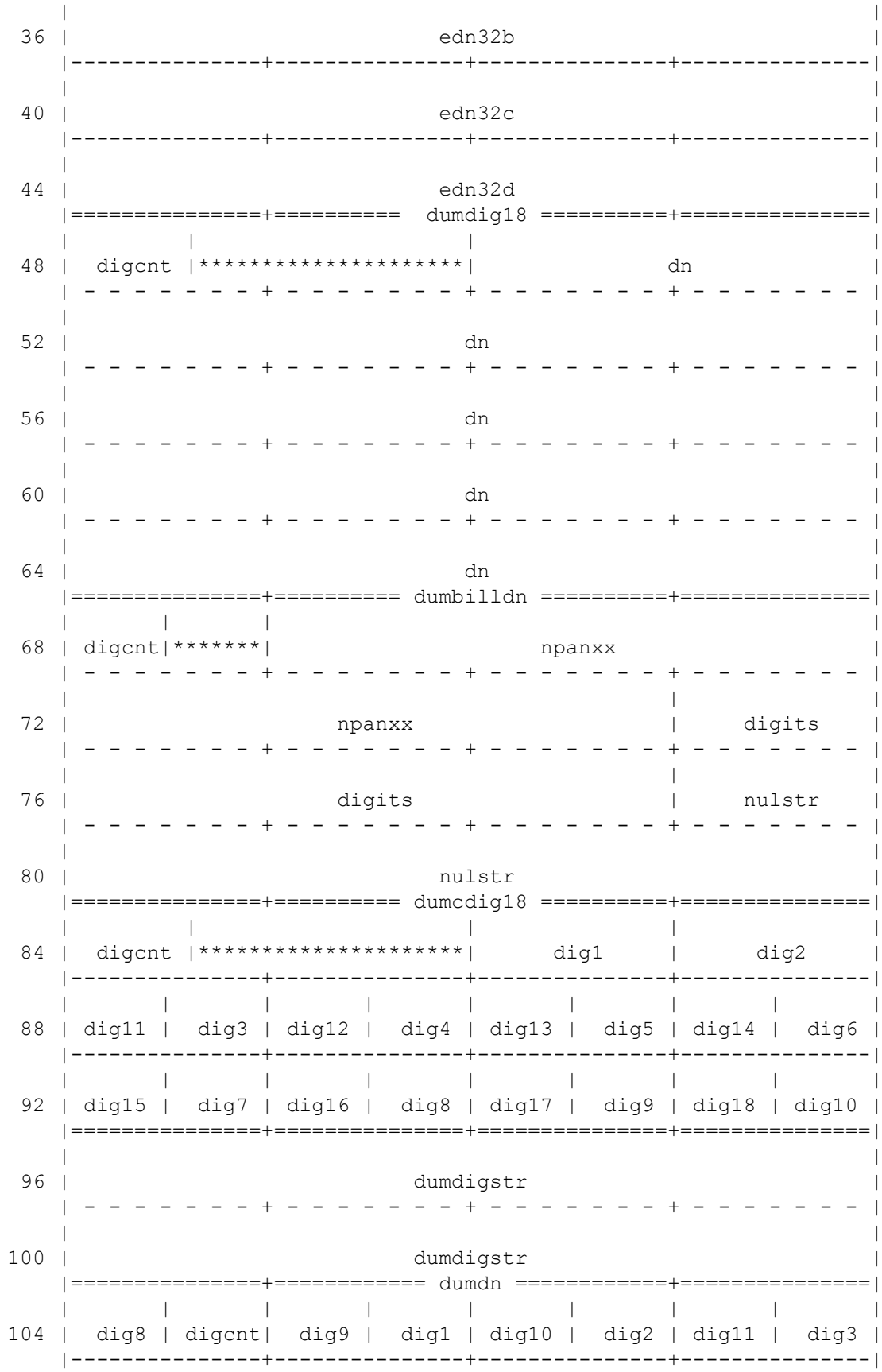
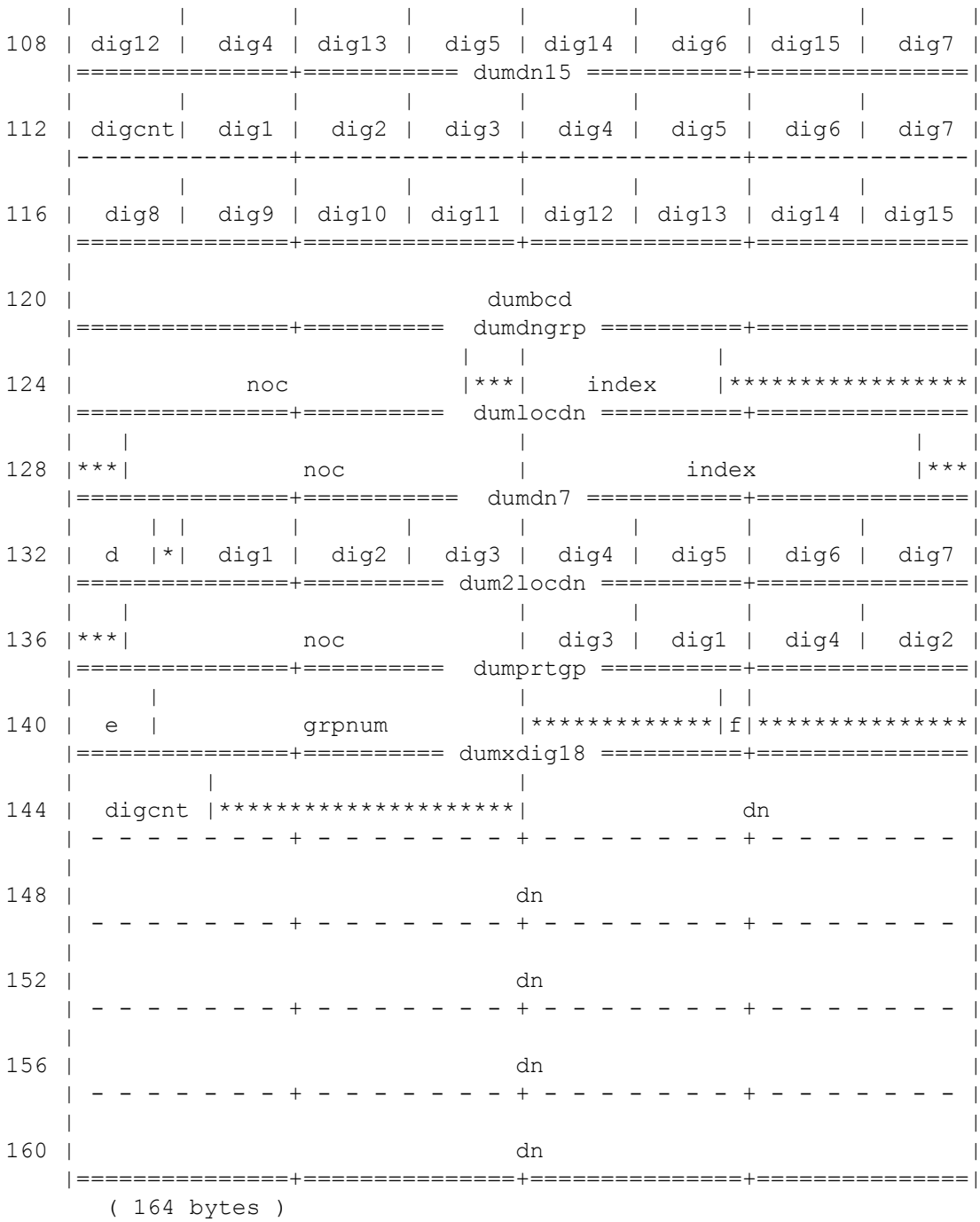

edn32b
edn32c
edn32d
dumdig18
digcnt
dn
dn
dn
dn
dumbilldn
digcnt
npanxx
npanxx
digits
digits
nulstr
nulstr
dumcdig18
digcnt
dig1
dig2
dig11
dig3
dig12
dig4
dig13
dig5
dig14
dig6
dig15
dig7
dig16
dig8
dig17
dig9
dig18
dig10
dumdigstr
dumdigstr
dumdn
dig8
digcnt
dig9
dig1
dig10
dig2
dig11
dig3




( 164 bytes )

```
    dumport     DMPORT       (ushort)
    dumedigit   DMEDIGIT     (char)
    dumrax      DMRAX        (ushort: 7)
(a) dumkey      DMBOOL       (enum: 1) <--- key
(b) dumtsbal    DMTSBAL      (enum: 2)
    dumedn32    DMCEDN32     (struct)
        digcnt      DMDCNT32     (ushort: 6)
        edn32a      DMBCD8       (ulong)
        edn32b      DMBCD8       (ulong)
```

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```
        edn32c      DMBCD8       (ulong)
        edn32d      DMBCD8       (ulong)
    dumedntg    DMCEDNTG     (struct)
        dcnt32      DMDCNT32     (ushort: 6)
(c)     tgsr_ov     DMBOOL       (enum: 1)
        edn32a      DMBCD8       (ulong)
        edn32b      DMBCD8       (ulong)
        edn32c      DMBCD8       (ulong)
        edn32d      DMBCD8       (ulong)
    dumdig18    DMDIG18      (struct)
        digcnt      DMDCNT18     (uchar: 5)
        dn          DMSTRING18   (array [ 18 ] of char )
    dumbilldn   DMCBLDN      (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        npanxx      DMCHAR6      (array [ 6 ] of char )
        digits      DMCHAR4      (array [ 4 ] of char )
        nulstr      DMCHAR5      (array [ 5 ] of char )
    dumcdig18   DMCDIG18     (struct)
        digcnt      DMDCNT18     (uchar: 5)
        dig1        DMCHAR       (char)
        dig2        DMCHAR       (char)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
        dig16       DMUNS4       (ushort: 4)
        dig8        DMUNS4       (ushort: 4)
        dig17       DMUNS4       (ushort: 4)
        dig9        DMUNS4       (ushort: 4)
        dig18       DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
    dumdigstr   DMKDIGSTR    (array [ 8 ] of char )
    dumdn       DMCDN        (struct)
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
```

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```
        dig7        DMUNS4       (ushort: 4)
    dumdn15     DMCDN15      (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
        dig8        DMUNS4       (ushort: 4)
        dig9        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
    dumbcd      DMKBCD7      (array [ 4 ] of char )
    dumdngrp    DMKDNGRP     (struct)
        noc         DMNOC        (ushort: 14)
        index       DMUNS7       (ushort: 7)
    dumlocdn    DMKLOCDN     (struct)
        noc         DMNOC        (ushort: 14)
        index       DMUNS14      (ushort: 14)
    dumdn7      DMCDN7       (struct)
(d)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    dum2locdn   DMCLOCDN     (struct)
        noc         DMNOC        (ushort: 14)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
    dumprtgp    DMCPRTGP     (struct)
(e)     zerobits    DMUNS3       (ushort: 3)
        grpnum      DMGRUPNM     (ushort: 13)
(f)     grptype     DMPTYPE      (enum: 1)
    dumxdig18   DMCDIG18     (struct)  <--- compacted
        digcnt      DMDCNT18     (uchar: 5)
        dig1        DMCHAR       (char)
        dig2        DMCHAR       (char)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
```

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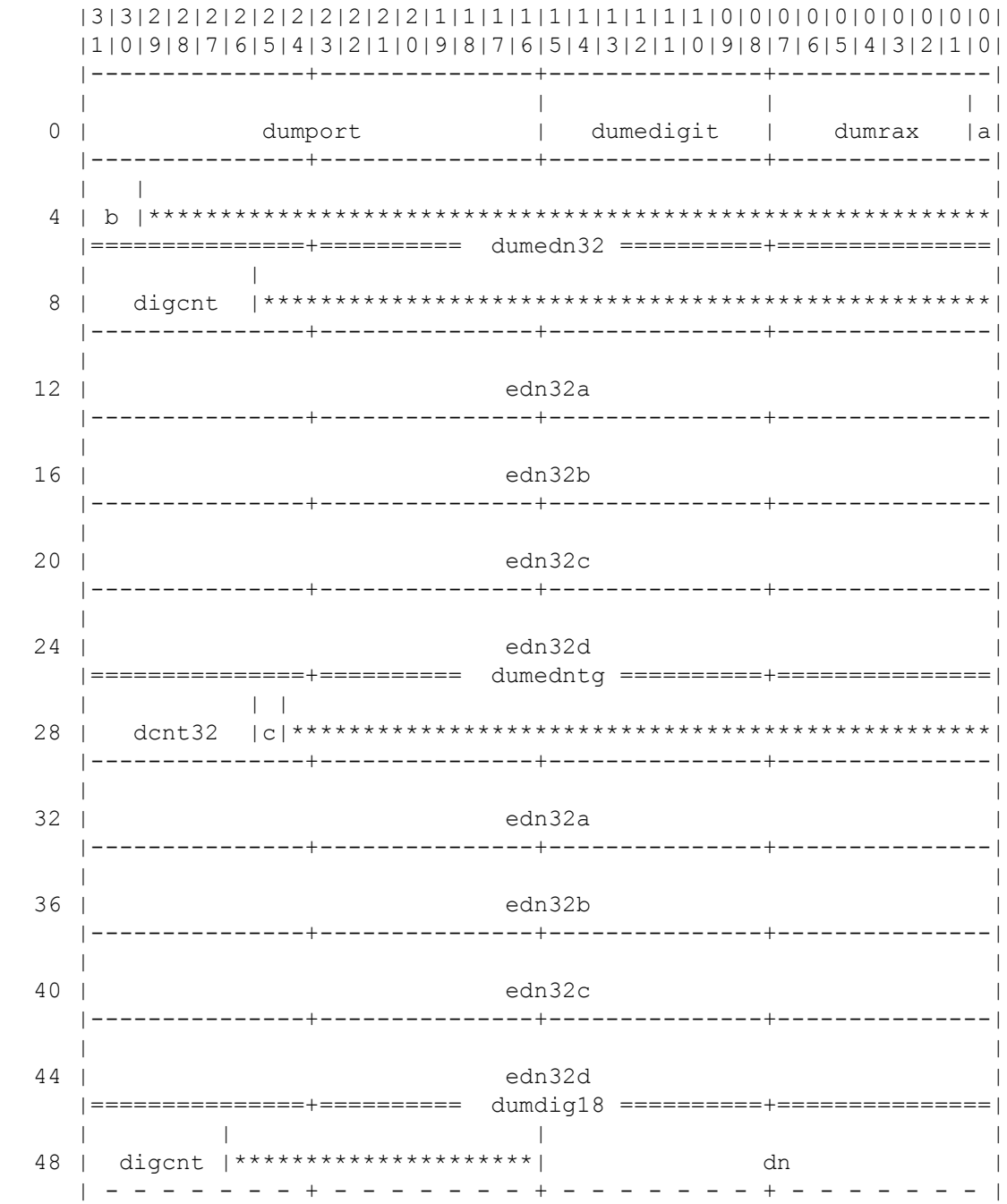
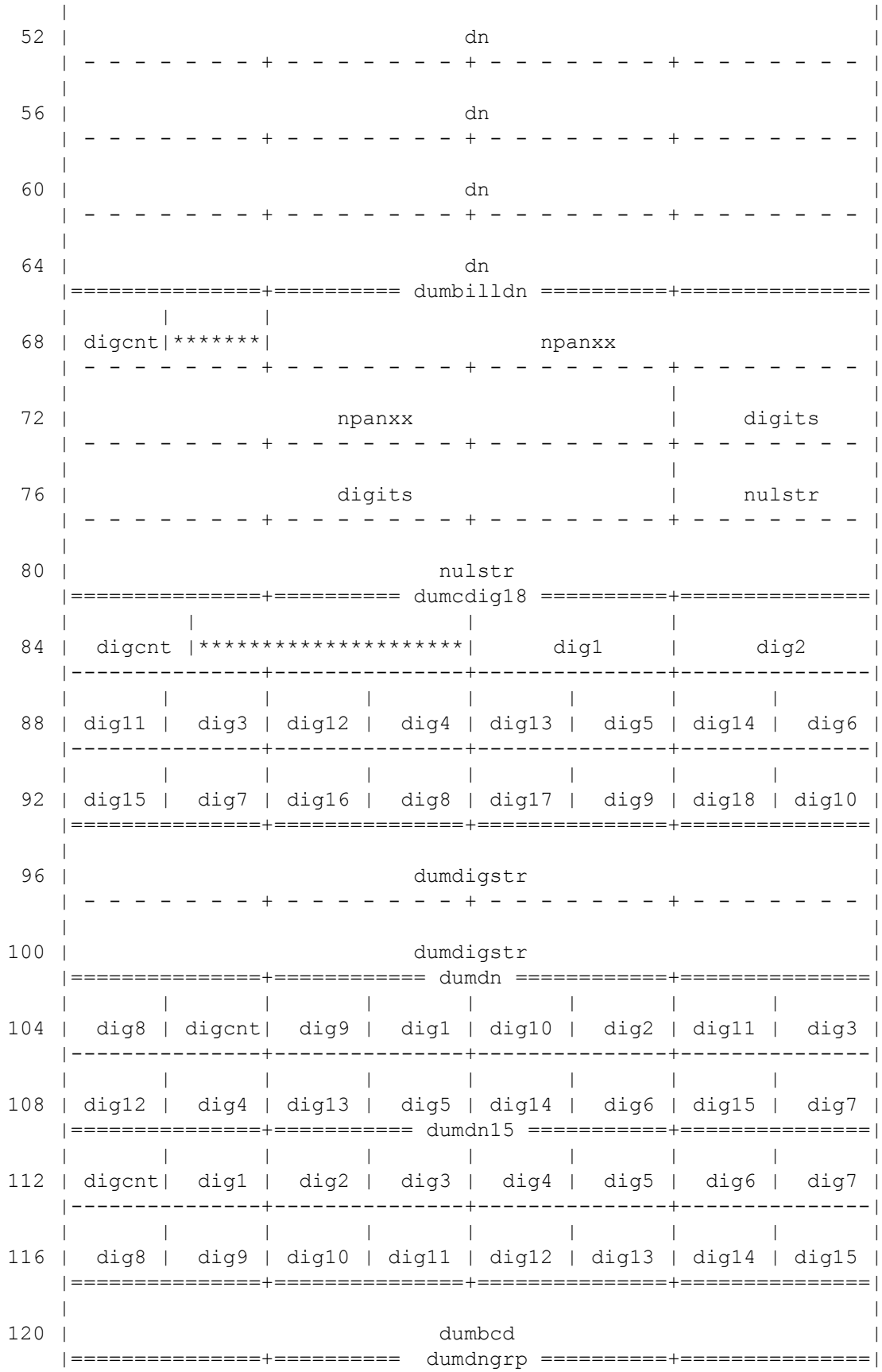
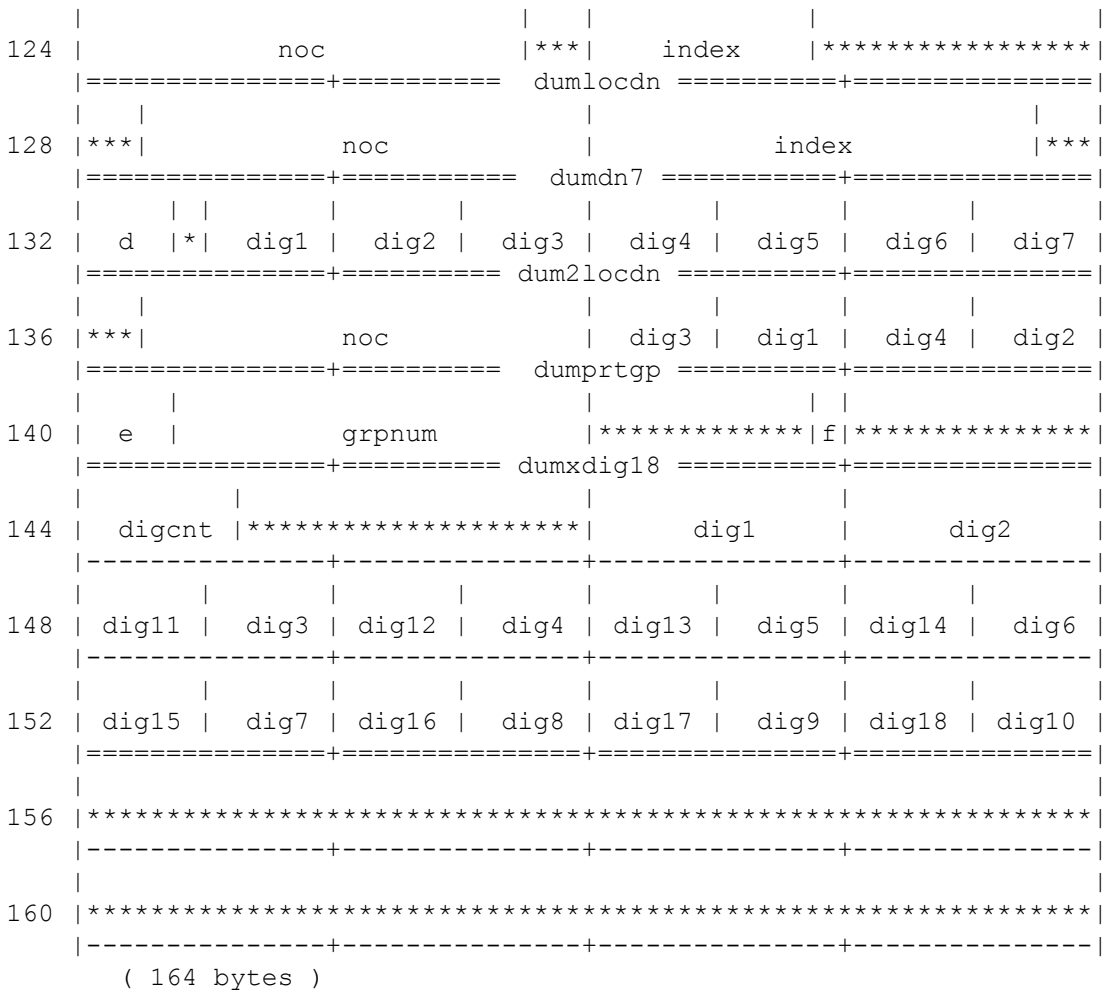
```
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
        dig16       DMUNS4       (ushort: 4)
        dig8        DMUNS4       (ushort: 4)
        dig17       DMUNS4       (ushort: 4)
        dig9        DMUNS4       (ushort: 4)
        dig18       DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
```




dn
dn
dn
dn
dumbilldn
digcnt
*******
npanxx
npanxx
digits
digits
nulstr
nulstr
dumcdig18
digcnt
**********
dig1
dig2
dig11
dig3
dig12
dig4
dig13
dig5
dig14
dig6
dig15
dig7
dig16
dig8
dig17
dig9
dig18
dig10
dumdigstr
dumdigstr
dumdn
dig8
digcnt
dig9
dig1
dig10
dig2
dig11
dig3
dig12
dig4
dig13
dig5
dig14
dig6
dig15
dig7
dumdn15
digcnt
dig1
dig2
dig3
dig4
dig5
dig6
dig7
dig8
dig9
dig10
dig11
dig12
dig13
dig14
dig15
dumbcd
dumdngrp




( 164 bytes )

```
    dumport     DMPORT       (ushort)
    dumedigit   DMEDIGIT     (char)
    dumrax      DMRAX        (ushort: 7)
(a) dumkey      DMBOOL       (enum: 1) <--- key
(b) dumtsbal    DMTSBAL      (enum: 2)
    dumedn32    DMCEDN32     (struct)
        digcnt      DMDCNT32     (ushort: 6)
        edn32a      DMBCD8       (ulong)
        edn32b      DMBCD8       (ulong)
        edn32c      DMBCD8       (ulong)
        edn32d      DMBCD8       (ulong)
    dumedntg    DMCEDNTG     (struct)
        dcnt32      DMDCNT32     (ushort: 6)
(c)     tgsr_ov     DMBOOL       (enum: 1)
        edn32a      DMBCD8       (ulong)
        edn32b      DMBCD8       (ulong)
        edn32c      DMBCD8       (ulong)
        edn32d      DMBCD8       (ulong)
    dumdig18    DMDIG18      (struct)
        digcnt      DMDCNT18     (uchar: 5)
        dn          DMSTRING18   (array [ 18 ] of char )
```

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```
dumbilldn   DMCBLDN      (struct)
    digcnt      DMDIGCNT     (uchar: 4)
    npanxx      DMCHAR6      (array [ 6 ] of char )
    digits      DMCHAR4      (array [ 4 ] of char )
    nulstr      DMCHAR5      (array [ 5 ] of char )
dumcdig18   DMCDIG18     (struct)
    digcnt      DMDCNT18     (uchar: 5)
    dig1        DMCHAR       (char)
    dig2        DMCHAR       (char)
    dig11       DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig13       DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
    dig16       DMUNS4       (ushort: 4)
    dig8        DMUNS4       (ushort: 4)
    dig17       DMUNS4       (ushort: 4)
    dig9        DMUNS4       (ushort: 4)
    dig18       DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
dumdigstr   DMKDIGSTR    (array [ 8 ] of char )
dumdn       DMCDN        (struct)
    dig8        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
    dig9        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
    dig11       DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig13       DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
dumdn15     DMCDN15      (struct)
    digcnt      DMDIGCNT     (uchar: 4)
    dig1        DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
    dig8        DMUNS4       (ushort: 4)
    dig9        DMUNS4       (ushort: 4)
```

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```
        dig10       DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
    dumbcd      DMKBCD7      (array [ 4 ] of char )
    dumdngrp    DMKDNGRP     (struct)
        noc         DMNOC        (ushort: 14)
        index       DMUNS7       (ushort: 7)
    dumlocdn    DMKLOCDN     (struct)
        noc         DMNOC        (ushort: 14)
        index       DMUNS14      (ushort: 14)
    dumdn7      DMCDN7       (struct)
(d)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    dum2locdn   DMCLOCDN     (struct)
        noc         DMNOC        (ushort: 14)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
    dumprtgp    DMCPRTGP     (struct)
(e)     zerobits    DMUNS3       (ushort: 3)
        grpnum      DMGRUPNM     (ushort: 13)
(f)     grptype     DMPTYPE      (enum: 1)
    dumxdig18   DMCDIG18     (struct)  <--- compacted
        digcnt      DMDCNT18     (uchar: 5)
        dig1        DMCHAR       (char)
        dig2        DMCHAR       (char)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
        dig16       DMUNS4       (ushort: 4)
        dig8        DMUNS4       (ushort: 4)
        dig17       DMUNS4       (ushort: 4)
        dig9        DMUNS4       (ushort: 4)
        dig18       DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)

          Stored Tuple Layout     AAAA
```

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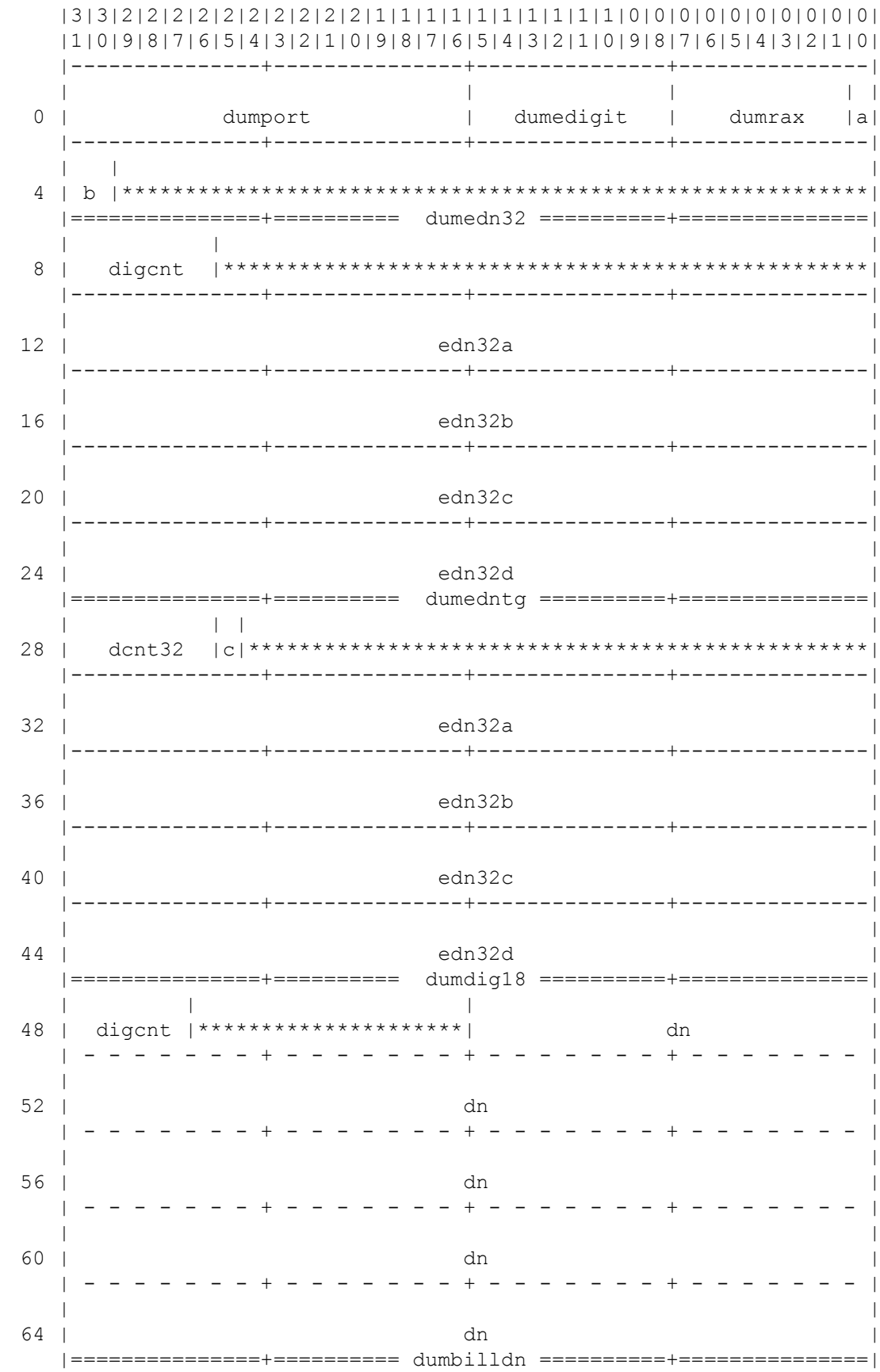


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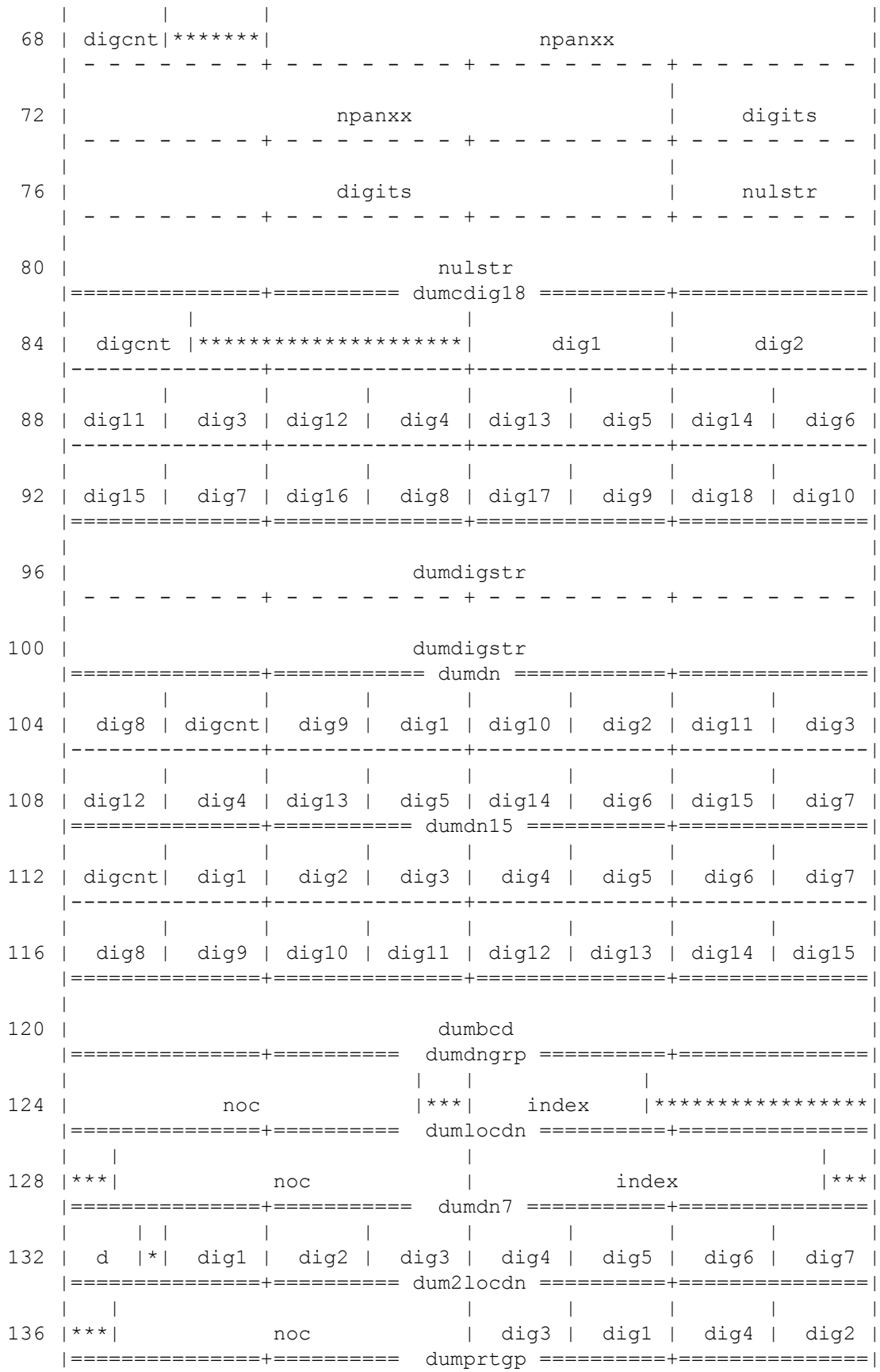


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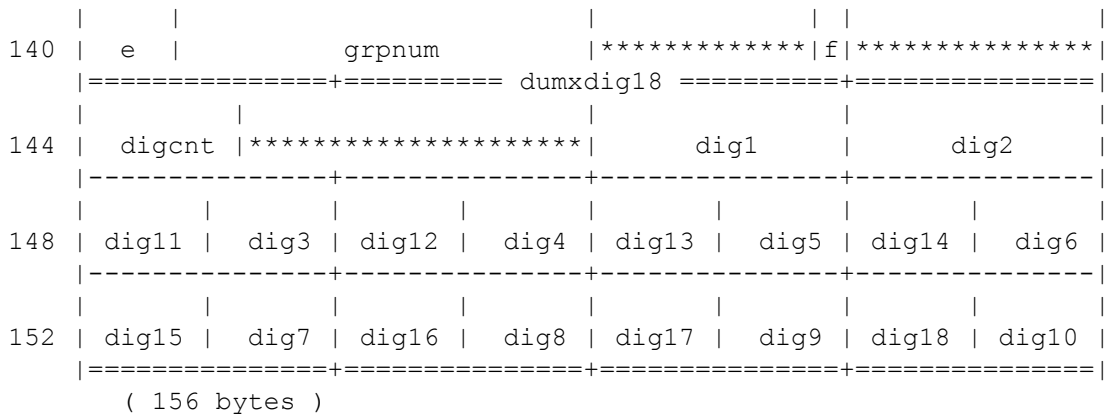


## 4. Population rules for RLaaaa

### Relation Description

RLaaaa.R

This relation is a placeholder relation for 5ESS(R)-2000 switch specific information.

**Attribute:**
dumkey
**Fullname:**
Dummy Key
**Attribute Description:**
dummy key

**Attribute:**
dum2locdn.dig1
**Fullname:**
Dummy Attribute
**Attribute Description:**
dummy value

**Attribute:**
dum2locdn.dig2
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy attribute

**Attribute:**
dum2locdn.dig3
**Fullname:**
Dummy Attribute
**Attribute Description:**

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Dummy Attribute

**Attribute:**
dum2locdn.dig4
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dum2locdn.noc
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumbcd
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumbilldn.digcnt
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumbilldn.digits
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumbilldn.npanxx
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumbilldn.nulstr

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**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumcdig18.dig1
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumcdig18.dig10
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumcdig18.dig11
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumcdig18.dig12
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumcdig18.dig13
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumcdig18.dig14
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

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**Attribute:**
dumcdig18.dig15
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumcdig18.dig16
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumcdig18.dig17
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumcdig18.dig18
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumcdig18.dig2
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumcdig18.dig3
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumcdig18.dig4
**Fullname:**
Dummy Attribute

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**Attribute Description:**
Dummy Attribute

**Attribute:**
dumcdig18.dig5
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumcdig18.dig6
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumcdig18.dig7
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumcdig18.dig8
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumcdig18.dig9
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumcdig18.digcnt
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**

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dumdig18.digcnt
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdig18.dn
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdigstr
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn.dig1
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn.dig10
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn.dig11
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn.dig12
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

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**Attribute:**
dumdn.dig13
**Fullname:**
Dummy attribute
**Attribute Description:**
Dummy attribute

**Attribute:**
dumdn.dig14
**Fullname:**
Dummy attribute
**Attribute Description:**
Dummy attribute

**Attribute:**
dumdn.dig15
**Fullname:**
Dummy attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn.dig2
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn.dig3
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn.dig4
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn.dig5
**Fullname:**

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Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn.dig6
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn.dig7
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn.dig8
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn.dig9
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn.digcnt
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn15.dig1
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

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**Attribute:**
dumdn15.dig10
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn15.dig11
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn15.dig12
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn15.dig13
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn15.dig14
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn15.dig15
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn15.dig2
**Fullname:**
Dummy Attribute
**Attribute Description:**

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Dummy Attribute

**Attribute:**
dumdn15.dig3
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn15.dig4
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn15.dig5
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn15.dig6
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn15.dig7
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn15.dig8
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn15.dig9

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**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn15.digcnt
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn7.dig1
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn7.dig2
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn7.dig3
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn7.dig4
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn7.dig5
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

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**Attribute:**
dumdn7.dig6
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn7.dig7
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdn7.dig7cnt
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdngrp.index
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumdngrp.noc
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumedigit
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumedn32.digcnt
**Fullname:**
Dummy Attribute

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**Attribute Description:**
Dummy Attribute

**Attribute:**
dumedn32.edn32a
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumedn32.edn32b
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumedn32.edn32c
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumedn32.edn32d
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumedntg.dcnt32
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumedntg.edn32a
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**

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dumedntg.edn32b
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumedntg.edn32c
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumedntg.edn32d
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumedntg.tgsr_ov
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumlocdn.index
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumlocdn.noc
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumport
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

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**Attribute:**
dumprtgp.zerobits
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumprtgp.grpnum
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumprtgp.grptype
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumrax
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumtsbal
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumxdig18
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumxdig18.dn
**Fullname:**

Dummy Attribute
**Attribute Description:**
Dummy Attribute

**Attribute:**
dumxdig18.digcnt
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy Attribute

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# AC_CF

## 1. Description

LASS Automatic Callback feature constructed feature options - used in SM. These constructed features can be assigned to analog and ISDN terminals.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| expected tuples in relation | 3 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |
| density | 5 |

## 3. Field Layout

```
AC_CF       relid = 1097  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     feat_id     DMFID        (ushort: 10)     <--- key, not stored
     actvn       DMMC_ACTYP   (enum: 3)
 (a) dctvn       DMMC_DCTYP   (enum: 2)
 (b) ama_rec     DMBOOL       (enum: 1)
 (c) filtr_op    DMBOOL       (enum: 1)


         User and Compacted Tuple Layout  AC_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  0 |      feat_id      |*******************************************|
    |---------------+---------------+---------------+---------------|
    |     |   | | |                                                 |
  4 |actvn| a |b|c|*************************************************|
    |---------------+---------------+---------------+---------------|
                                ( 8 bytes )

    actvn       DMMC_ACTYP   (enum: 3)
 (a) dctvn       DMMC_DCTYP   (enum: 2)
 (b) ama_rec     DMBOOL       (enum: 1)
 (c) filtr_op    DMBOOL       (enum: 1)

          Stored Tuple Layout    AC_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |     |   | | |                                                 |
  0 |actvn| a |b|c|*************************************************|
    |---------------+---------------+---------------+---------------|
                               ( 2 bytes )
```

## 4. Population Rules for RLac_cf

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**Relation Description**

LASS Automatic Callback Constructed Feature

This relation gives LASS Automatic Callback constructed feature information used in the SM. These constructed features can be assigned to analog and ISDN terminals.

**Attribute: feat_id**

**Fullname:** feature identification

**Attribute Description:** BRCS constructed feature id consists of a modular feature type and a unique identifier. For a LASS Automatic Callback constructed feature, the modular feature type is MFAC which is an enumeration of type DMmftype. The feature id must have a class of FACBRCS and a subclass of SCL_FEAT. If the feature is offered on a generally available basis, the feature id must also have a class of FACBRCS and a subclass of SCL_FEAT.

**Attribute: actvn**

**Fullname:** activation

**Attribute Description:** Method of feature activation. This is an enumeration of type DMmc_actyp. This feature is not able to be activated (customer cannot activate via a dialed code or feature button) for 5E5 so that actvn always has the value ACTNONE. Future generics may allow this feature to be activated via dialed codes or feature buttons.

**Attribute: dctvn**

**Fullname:** Deactivation

**Attribute Description:** Method of feature deactivation. This is an enumeration of type DMmc_dctyp. This feature is not able to be deactivated (customer cannot deactivate via a dialed code or feature button) for 5E5 so that dctvn always has the value DCTNONE. Future generics may allow this feature to be deactivated via dialed codes or feature buttons.

**Attribute: ama_rec**

**Fullname:** billing type

**Attribute Description:** Type of billing to be performed. This is an enumeration of type DMbool. This billing can be done on a flat rate or usage sensitive basis according to how the subscribing user prefers to be billed or how the customer decides it will bill if the feature is universally available. If ama_rec is set to DBYES, the billing will be done on a usage sensitive basis whereas if it is set to DBNO, the billing will be done on a flat rate basis.

**Attribute: filtr_op**

**Fullname:** filter options

**Attribute Description:** This is a boolean value which will be used to indicate whether or not this feature is restricted to intra-terminal group only. This attribute should be initially populated with DBNO. If this attribute is set to DBYES, then the feature will be restricted to intra-terminal group only.

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# AC_CQDET

## 1. Description

This static relation gives the ACD call queue as a function of call characteristics.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 512 |
| expected number of tuples | 87 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| density | 79 |

## 3. Field Layout

```
AC_CQDET    relid = 1158  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL

     ospsid      DMOSPSID     (ushort: 14) <--- key
 (a) carrier     DMCARRIER    (enum: 2) <--- key
     callq       DMUNS10      (ushort: 10)
     ospsff      DMUNS6       (ushort: 6)
     dispx       DMDISPX2     (ushort: 9)
     ta_pcid     DMUNS7       (ushort: 7)
     expacd      DMCHAR7      (array [ 7 ] of char )
     ap_callq    DMUNS8       (ushort: 8)
     ta_type     DMTA_TYPE    (enum: 5) <--- key
 (b) prefix      DMPREFIX     (enum: 3) <--- key
     coin        DMSTATTYP    (enum: 3) <--- key
 (c) usenext     DMUSENEXT    (enum: 2)
        User, Compacted and Stored Tuple Layout   AC_CQDET
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                             |   |                   |           |
  0 |           ospsid            | a |       callq       |   ospsff  |
    |---------------+---------------+---------------+---------------|
    |                 |             |                                 |
  4 |      dispx      |   ta_pcid   |             expacd              |
    | - - - - - - - - + - - - - - - - + - - - - - - - - + - - - - - - - |
    |                                                                 |
  8 |                             expacd                              |
    | - - - - - - - - + - - - - - - - + - - - - - - - - + - - - - - - - |
    |               |               |         |     |     |   |     |
 12 |     expacd    |    ap_callq   | ta_type |  b  | coin| c |*****|
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 16 |*****************************************************************|
    |---------------+---------------+---------------+---------------|
                             ( 20 bytes )
```

## 4. Population rules for RLac_cqdet

### Relation Description

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Automatic Call Distribution Call Queue Determination

Expanded Call Queue (Type) Determination relation for OSPS TA and DA/NON-ISP calls. The RLac_cqdet, RLac_tgrp, RLac_destx, and RLexpacd relations are read to obtain the ACD call type. RLac_cqdet will always be read first.

If switch personnel have defined data to utilyze the Extended CallType Determination (ECTD) capability, relations RLac_tgrp and/or RLac_destx will be read second or third.
The primary relation, RLac_cqdet, is read and additionally as indicated by the 'usenext' attributes, RLac_tgrp and or RLac_destx. These additional relations allow for more specific screening of call characteristics to determine the call type. Each of the three relations contains a 'usenext' field of type DMUSENEXT, which indicates the next relation to be read. One, two or three relations may be read to determine the proper call type. Tuples in the three relations are 'linked' to each other via the 'ta_pcid' field in each relation. In addition to the key of trunk group number, the RLac_tgrp relation is read with the key of 'ta_pcid' obtained from the read of the RLac_cqdet relation. In addition to the key of destination index, the RLac_destx relation is read with the key of 'ta_pcid' obtained from the read of the RLac_cqdet relation.

If switch personnel have defined data to utilyze the Expanded Call Type Determination capability introduced by the OSPS ACD Expansion feature (98-5E-4668), relation RLexpacd will be read following the initial read of relation RLac_cqdet. Relation RLexpacd allows the ACD process to apply additional call screening properties to the selection of a call type. The read of relation RLexpacd is performed if the 'expacd' attribute of relation RLac_cqdet is populated with one or more call screening property values. The 'expacd' attribute defines a set of call screening properties that will be used to select a call type. Tuples in the RLac_cqdet and RLexpacd relations are linked to each other via the 'ta_pcid' attribute of each relation. Relation RLexpacd is read using the 'ta_pcid' value and the first call screening property value obtained from relation RLac_cqdet.

Switch personnel will have the following options available for the call type selection process:

1. Use only relation RLac_cqdet. For this case, the 'ta_pcid' attribute must be '0', the 'usenext' attribute must be set to 'TANONE', and the 'expacd' attribute must be NULL.
2. Use relation RLac_cqdet as well as relations RLac_tgrp and/or RLac_destx. For this case, the 'ta_pcid' attribute must not be '0', the 'usenext' attribute must be set to either 'TATGRP' or 'TADESTX', and the 'expacd' attribute must be NULL.
3. Use relation RLac_cqdet as well as relation RLexpacd. For this case, the 'ta_pcid' attribute must not be '0', the 'usenext' attribute must be set to 'TANONE', and the 'expacd' attribute must not be NULL.

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Not to be populated for export applications.
This relation is only to be populated for domestic applications having OSPS Toll and Assistance.

The following are suggested tuples to be populated for this relation:

| ta_type | prefix | coin | carrier |
|---|---|---|---|
| OATORIG_ISP | FCPFX_0MINUS | DBYES | OAIC_CARR |
| | | | OALEC_CARR |
| | | | OAUNKWN_CARR |
| | | DBNO | OAIC_CARR |
| | | | OALEC_CARR |
| | | | OAUNKWN_CARR |
| | FCPFX_0 | DBYES | OAIC_CARR |
| | | | OALEC_CARR |
| | | | OAUNKWN_CARR |
| | | DBNO | OAIC_CARR |
| | | | OALEC_CARR |
| | | | OAUNKWN_CARR |
| | FCPFX_1 | DBYES | OAIC_CARR |
| | | | OALEC_CARR |
| | | | OAUNKWN_CARR |
| | | DBNO | OAIC_CARR |
| | | | OALEC_CARR |
| | | | OAUNKWN_CARR |
| OATXFER_CAMA | NULLPREF | | OADC_CARR |
| OATSYS_CAMA | | | |
| OATINWARD | | | |
| OATOPER_INIT | | | |
| OATNIT | | | |
| OATDA2VDT | | | |
| OASOSTR | | | |

**Attribute:**
ta_type
**Fullname:**
Key: Toll & Assistance call type
**Attribute Description:**
Used to identify how call arrived at the switch.

**Attribute:**
prefix
**Fullname:**
Key: Dialed digits prefix indicator
**Attribute Description:**
This field denotes how the call was dialed (0+, 1+, etc.)

**Attribute:**

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coin

**Fullname:**

Key: Coin call flag

**Attribute Description:**

Indicates whether or not the incoming call is coin

**Attribute:**

ospsid

**Fullname:**

Key: OSPS Switch ID

**Attribute Description:**

The OSPS Switch ID (alphanumeric 1-9999) from where the call originated. This field is used for performing call type determination on the OSPS switch from where an interflow call originated. Therefore, non-interflow switches would populate this field with 0.

**Attribute:**

carrier

**Fullname:**

Key: call carrier type

**Attribute Description:**

Denotes the type of carrier for the call

**Attribute:**

callq

**Fullname:**

Call queue

**Attribute Description:**

Call queue to be used for routing a call to the proper serving team & call queue.
For some types of Listing Services calls, this can be a service ID instead of a call queue.
For intercept services provided with an IBM External Information System (EIS), the call type determined using this relation is also passed to the EIS. Because this is the only way that the IBM system has of distinguishing calls arriving over ANI trunks and ONI trunks, the office data should be defined so that the call type associated with calls arriving with ANI is different from those arriving as ONI/ANIF.

**Attribute:**

ap_callq

**Fullname:**

Automated Position call queue

**Attribute Description:**

Call Type to be used for routing a call to the proper Automated Position (AP) serving team and call queue.

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Unless the secure feature 415 for Rap is active,
APs cannot handle Listing Services, Automatic Intercept or
Specialized Handling for 700 Services traffic,
therefore the ap_callq is not applicable and is not
entered (zero) for these services.
The AP call queue cannot be a Listing Services call queue
unless the RaP feature is active.

Zero is not allowed on the RC/ODA form. It is equivalent to
unknown.

**Attribute:**
dispx
**Fullname:**
DA to VDT and Non-ISP calls VDT display index
**Attribute Description:**
The key to RLoaodisp to determine the
VDT display to be used for this call.

**Attribute:**
ta_pcid
**Fullname:**
Toll & Assistance Pre-call ID
**Attribute Description:**
Used to logically link this tuple with a RLac_tgrp and/or
RLac_destx tuple for a specific call's characteristic.
See the description at the beginning of this file for
more information on how this attribute is used

**Attribute:**
usenext
**Fullname:**
Use next (relation)
**Attribute Description:**
Indicates the relation to be read next, for additional call
type determination. Either RLac_tgrp or RLac_destx can be read
next.

**Attribute:**
expacd
**Fullname:**
Expanded ACD call property parameters
**Attribute Description:**
Identifies the set of call property parameters that will be
used to read relation RLexpacd for the selection of a call
type.

**Attribute:**

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ospsff

**Fullname:**

reserved field for OSPS fast features.

**Attribute Description:**

This field will be defined for future OSPS fast features.

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# AC_DESTX

## 1. Description

TA call type and display index determination for destination type.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 512 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
AC_DESTX    relid = 1156  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL

     destx       DMDESTIDX    (ushort: 12)     <--- key
 (a) usenext     DMUSENEXT    (enum: 2)
     callq       DMUNS10      (ushort: 10)
     ospsff      DMUNS6       (ushort: 6)
     dispx       DMDISPX2     (ushort: 9)
     ta_pcid     DMUNS7       (ushort: 7)     <--- key
     ap_callq    DMUNS8       (ushort: 8)

         User, Compacted and Stored Tuple Layout   AC_DESTX
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |   |   |                   |           |
  0 |         destx         | a |***|       callq       |   ospsff  |
    |---------------+---------------+---------------+---------------|
    |                 |             |               |               |
  4 |      dispx      |   ta_pcid   |    ap_callq   |***************|
    |---------------+---------------+---------------+---------------|
                            ( 8 bytes )
```

## 4. Population Rules for RLac_destx

### Relation Description

Automatic call distribution on destination index. Expanded call queue determination table for destination index This relation is used in conjunction with the RLac_cqdet and RLac_tgrp relations. A complete description of the interaction between these relations is found in the description of the RLac_cqdet relation.

Not to be populated for export applications. This relation is only to be populated for domestic applications having OSPS Toll and Assistance.

**Attribute: ta_pcid**

**Fullname:** Toll & Assistance Pre-call ID

**Attribute Description:** Used to logically link this tuple with a RLac_cqdet tuple for a specific call's

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characteristic

**Attribute: destx**

**Fullname:** Destination Index

**Attribute Description:** Indicates the destination index (output from digit analysis) of the incoming call

**Attribute: callq**

**Fullname:** Call Queue (type)

**Attribute Description:** Call queue to be used for routing a call to the proper serving team & call queue. For some types of Listing Services calls, this can be a service ID instead of a call queue. For intercept services provided with an *IBM*® external information system (EIS), the call type determined using this relation is also passed to the EIS. Because this is the only way that the *IBM*® system has of distinguishing calls arriving over ANI trunks and ONI trunks, the office data should be defined so that the call type associated with calls arriving with ANI is different from those arriving as ONI/ANIF.

**Attribute: ap_callq**

**Fullname:** Automated Position call queue

**Attribute Description:** Call type to be used for routing a call to the proper Automated position (AP) serving team and call queue. Unless the secure feature 415 for Rap is active, APs cannot handle listing services, automatic intercept or specialized handling for 700 Services traffic, therefore the ap_callq is not applicable and is not entered (zero) for these services. The AP call queue cannot be a Listing Services call queue unless the RaP feature is active. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: dispx**

**Fullname:** DA and Non-ISP calls VDT display index

**Attribute Description:** The key to RLoaodisp to determine the VDT display to be used for this call.

**Attribute: usenext**

**Fullname:** Use Next (relation)

**Attribute Description:** Indicates the relation to be read next, for additional call type determination. If usenext is equal to TGRP, then the ta_pcid key of this relation is used as a partial key to read the RLac_tgrp relation.

**Attribute: ospsff**

**Fullname:** osps fast feature

**Attribute Description:** Used for OSPS fast feature, if necessary.

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# AC_OPTS

## 1. Description

LASS automatic callback constructed feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
AC_OPTS     relid = 1098  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP

     feat_id     DMFID        (ushort: 10)     <--- key, not stored
 (a) ring_typ    DMMCDRING    (enum: 4)
     actvn       DMMC_ACTYP   (enum: 3)
 (b) ama_rec     DMBOOL       (enum: 1)
 (c) dctvn       DMMC_DCTYP   (enum: 2)
 (d) filtr_op    DMBOOL       (enum: 1)

         User and Compacted Tuple Layout    AC_OPTS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  0 |      feat_id      |*******************************************|
    |---------------+---------------+---------------+---------------|
    |       |     | |   | |                                         |
  4 |   a   |actvn|b| c |d|*******************************************|
    |---------------+---------------+---------------+---------------|
                              ( 8 bytes )

 (a) ring_typ    DMMCDRING    (enum: 4)
     actvn       DMMC_ACTYP   (enum: 3)
 (b) ama_rec     DMBOOL       (enum: 1)
 (c) dctvn       DMMC_DCTYP   (enum: 2)
 (d) filtr_op    DMBOOL       (enum: 1)

           Stored Tuple Layout      AC_OPTS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |       |     | |   | |                                         |
  0 |   a   |actvn|b| c |d|*******************************************|
    |---------------+---------------+---------------+---------------|
                              ( 2 bytes )
```

## 4. Population Rules for RLac_opts

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**Relation Description**

This relation gives LASS automatic callback constructed feature option information used in the AM. These constructed features can be assigned to analog and ISDN terminals.

**Attribute: feat_id**

**Fullname:** feature identification

**Attribute Description:** A BRCS constructed feature ID consists of a modular feature type and a unique identifier. For a LASS automatic callback constructed feature, the modular feature type is MFAC which is an enumeration of type DMmftype. The feature ID must have a class of FACBRCS and a subclass of SCL_FEAT. If the feature is offered on a generally available basis, the feature ID must also have a class of FACBRCS and a subclass of SCL_FEAT.

**Attribute: actvn**

**Fullname:** activation

**Attribute Description:** Method of feature activation. This is an enumeration of type DMmc_actyp. This feature is not able to be activated (customer cannot activate using a dialed code or feature button) for 5E5 so that actvn always has the value ACTNONE. Future generics may allow this feature to be activated via dialed codes or feature buttons.

**Attribute: dctvn**

**Fullname:** deactivation

**Attribute Description:** Method of feature deactivation. This is an enumeration of type DMmc_dctyp. This feature is not able to be deactivated (customer cannot deactivate using a dialed code or feature button) for 5E5 so that dctvn always has the value DCTNONE. Future generics may allow this feature to be deactivated via dialed codes or feature buttons.

**Attribute: ama_rec**

**Fullname:** billing type

**Attribute Description:** Type of billing to be performed. This is an enumeration of type DMbool. This billing can be done on a flat rate or usage sensitive basis according to how the subscribing user prefers to be billed or how the customer decides it will bill if the feature is universally available. If ama_rec is set to DBYES, the billing will be done on a usage sensitive basis whereas if it is set to DBNO, the billing will be done on a flat rate basis.

**Attribute: ring_typ**

**Fullname:** Call-back ringing type

**Attribute Description:** Select from one of the cadences available to the automatic callback feature user. This attribute should be initially populated with ringing cadence DR_C.

**Attribute: filtr_op**

**Fullname:** filter options

**Attribute Description:** This is a boolean value which will be used to indicate whether or not this feature is restricted to intra-terminal group only. This attribute should be initially populated with DBNO. If this attribute is set to DBYES, then the feature will be restricted to intra-terminal group only.

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# AC_PORT

## 1. Description

LASS automatic callback feature parameters on this global port.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 40 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| density | 4 |
| l1 length of subkey 1 | 2 |
| p1 position of subkey 1 | 16 |
| l2 length of subkey 2 | 16 |
| p2 position of subkey 2 | 0 |
| ks key store | AUTO |

## 3. Field Layout

```
AC_PORT     relid = 1099  DBSTATIC   DBACC_CIND  DBPRAM    LPFPFG  RCMAP

     lport       DMLPORT      (ushort: 16)     <--- key, not stored
 (a) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key, not stored
 (b) ring_typ    DMMCDRING    (enum: 4)

         User and Compacted Tuple Layout    AC_PORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |   |                           |
  0 |              lport             | a |***************************|
    |---------------+---------------+---------------+---------------|
    |       |                                                       |
  4 |   b   |*******************************************************|
    |---------------+---------------+---------------+---------------|
                               ( 8 bytes )

 (a) ring_typ    DMMCDRING    (enum: 4)

           Stored Tuple Layout      AC_PORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |       |                                                       |
  0 |   a   |*******************************************************|
    |---------------+---------------+---------------+---------------|
                               ( 2 bytes )
```

## 4. Population Rules for RLac_port

### Relation Description

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LASS Automatic Callback Constructed Feature Line Parameters

This relation gives LASS Automatic Callback constructed feature line parameters that are pseudo group partitioned. These constructed features can be assigned to analog and ISDN terminals.

**Attribute: lport**

**Fullname:** logical port

**Attribute Description:** This attribute defines the logical port and is a sequential key administered per SM. Analog lines would also be assigned lports, although the ISDN and analog lport values will be tracked and assigned separately to conserve memory as is currently done with logical termination indexes.

**Attribute: lpt_type**

**Fullname:** lport type

**Attribute Description:** This attribute indicates the type of lport that the tuple belongs to.

**Attribute: ring_typ**

**Fullname:** Call-back ringing type

**Attribute Description:** Select from one of the cadences available to the LASS Automatic Callback feature user. This attribute should be initially populated with ringing cadence DR_C.

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# AC_TGRP

## 1. Description

TA call type and display index determination for trunk groups.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 40000 |
| expected tuples in relation | 1000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
AC_TGRP     relid = 1157  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL

     tgroup      DMGRUPNM     (ushort: 13)     <--- key
 (a) usenext     DMUSENEXT    (enum: 2)
     callq       DMUNS10      (ushort: 10)
     ospsff      DMUNS6       (ushort: 6)
     dispx       DMDISPX2     (ushort: 9)
     ta_pcid     DMUNS7       (ushort: 7)     <--- key
     ap_callq    DMUNS8       (ushort: 8)

         User, Compacted and Stored Tuple Layout    AC_TGRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           |   | |                   |           |
  0 |          tgroup           | a |*|       callq       |   ospsff  |
    |---------------+---------------+---------------+---------------|
    |                   |             |                 |               |
  4 |      dispx        |   ta_pcid   |    ap_callq     |***************|
    |---------------+---------------+---------------+---------------|
                               ( 8 bytes )
```

## 4. Population Rules for RLac_tgrp

**Relation Description**

Automatic call distribution for trunk groups. Expanded Call Queue (Type) determination table for trunk groups This relation is used in conjunction with the RLac_cqdet and RLac_destx relations. A complete description of the interaction between these relations is found in the description of the RLac_cqdet relation. This relation is not to be populated for export applications, it is only to be populated for domestic applications having OSPS Toll and Assistance.

**Attribute: ta_pcid**

**Fullname:** Toll & Assistance Pre-call ID

**Attribute Description:** Used to logically link this tuple with a RLac_cqdet tuple for a specific call's characteristic.

**Attribute: tgroup**

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**Fullname:** Trunk Group

**Attribute Description:** Indicates the incoming trunk group number of the incoming call.

**Attribute: callq**

**Fullname:** Call Queue (type)

**Attribute Description:** Call queue (type) to be used for routing a call to the proper serving team & call queue. For some types of Listing Services calls, this can be a service ID instead of a call queue. For intercept services provided with an *IBM*® external information system (EIS), the call type determined using this relation is also passed to the EIS. Because this is the only way that the *IBM*® system has of distinguishing calls arriving over ANI trunks and ONI trunks, the office data should be defined so that the call type associated with calls arriving with ANI is different from those arriving as ONI/ANIF.

**Attribute: ap_callq**

**Fullname:** Automated Position call queue

**Attribute Description:** Call Type to be used for routing a call to the proper automated position (AP) serving team and call queue. Unless the secure feature 415 for Rap is active, APs cannot handle Listing Services, Automatic Intercept or Specialized Handling for 700 Services traffic, therefore the ap_callq is not applicable and is not entered (zero) for these services. The AP call queue cannot be a Listing Services call queue unless the RaP feature is active. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: dispx**

**Fullname:** DA to VDT and Non-ISP calls VDT display index

**Attribute Description:** The key to RLoaodisp to determine the VDT display to be used for this call.

**Attribute: usenext**

**Fullname:** Use next (relation)

**Attribute Description:** Indicates the relation to be read next, for additional call queue determination. If usenext is equal to DESTX, then the ta_pcid key of this relation is used as a partial key to read the RLac_destx relation

**Attribute: ospsff**

**Fullname:** fast feature spare

**Attribute Description:** Spare for fast feature

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# AC_TKCT

## 1. Description

OSPS call type and display index determination for trunks.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 512 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
AC_TKCT     relid = 629   DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL

     tgroup      DMSHORT      (short)     <--- key
     oppcid      DMUNS9       (ushort: 9)     <--- key
     ospsff      DMUNS6       (ushort: 6)
 (a) vec_asgnd   DMBOOL       (enum: 1)
     dispx       DMDISPX      (ushort: 9)
 (b) cndasgnd    DMBOOL       (enum: 1)
 (c) cnbrmis     DMBOOL       (enum: 1)
 (d) cnbrdisp    DMBOOL       (enum: 1)
 (e) daa_ind     DMBOOL       (enum: 1)
     call_type   DMUNS8       (ushort: 8)
     vec_num     DMUNS8       (ushort: 8)

         User, Compacted and Stored Tuple Layout    AC_TKCT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                 |           | |
  0 |             tgroup            |      oppcid     |   ospsff  |a|
    |---------------+---------------+---------------+---------------|
    |                 | | | | |     |               |               |
  4 |      dispx      |b|c|d|e|*****|   call_type   |    vec_num    |
    |---------------+---------------+---------------+---------------|
                             ( 8 bytes )
```

## 4. Population Rules for RLac_tkct

### Relation Description

Automatic call distribution trunk to call type-operator services position system (OSPS) call type and display index determination for trunks.

This relation is part of call type determination for OSPS directory assistance (DA) and commercial-automatic call distributor (C-ACD) calls. The 'oppcid' key is obtained either from a tuple in RLop_id or from a tuple in RLop_iddn.

### Attribute: oppcid

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**Fullname:** Operator pre-call identifier

**Attribute Description:** This key is obtained either from a tuple in RLop_id or from one in RLop_iddn.

**Attribute: tgroup**

**Fullname:** Trunk group number

**Attribute Description:** This key must either be a valid trunk group number or 9999. Except for the wild card value 9999, there must be a tuple in RLrt_trkg whose key (that is attribute 'grpnum') matches 'tgroup'.

**Attribute: call_type**

**Fullname:** Call type

**Attribute Description:** This identifies the call type for the given call factors. Each call type uniquely corresponds to an automatic call distribution (ACD) call queue.

**Attribute: dispx**

**Fullname:** Display index

**Attribute Description:** This attribute identifies the display index for the given call factors. There must be a tuple with key 'dispx' in the RLoaodisp relation.

**Attribute: vec_asgnd**

**Fullname:** Vector assigned indicator **Attribute Description:** This attribute is DBYES only if a vector has been assigned to handle calls with a given 'oppcid'/'tgroup' key. When this attribute is DBYES, the 'vec_num' attribute must contain a valid vector number minus one (that this, the corresponding tuple in RLcv_vectr must exist and define the desired call treatment).

**Attribute: cndasgnd**

**Fullname:** Calling number delivery (CND) feature assigned

**Attribute Description:** This attribute is DBYES only when the CND feature has been assigned to the trunk group/dialed digits combinations associated with this tuple.

**Attribute: cnbrmis**

**Fullname:** Enable calling number delivery to management information system (MIS)

**Attribute Description:** This attribute is DBYES only when the calling party number should be sent to the MIS for a C-ACD call. This attribute can be DBYES only if the CND feature has been assigned (that is, 'cndasgnd' must be set to DBYES).

**Attribute: cnbrdisp**

**Fullname:** Enable calling number display at agent terminals

**Attribute Description:** This attribute is DBYES only when calling party numbers (CPNs) should be sent to the position terminal process (PTP) for a C-ACD call for possible display on the agent terminals (determined by display index definition). This attribute can be DBYES only if the CND feature has been assigned (that is, 'cndasgnd' must be set to DBYES).

**Attribute: vec_num**

**Fullname:** Vector number assigned minus 1

**Attribute Description:** This identifies the RLcv_vectr tuple to provide call handling while waiting for a C-ACD agent. When the 'vec_asgnd' attribute is DBYES, 'vec_num' must contain a valid vector

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number minus 1. There should be an existing tuple in RLcv_vectr that defines the desired call treatment. When 'vec_asgnd' is DBNO, 'vec_num' can contain any value, valid or otherwise.

**Attribute: ospsff**

**Fullname:** OSPS fast feature item

**Attribute Description:** Usage: Use bit 0 for free terminating C-ACD calls where 0=N and 1=Y. This is only used for *PINNACLE*® ACD calls over non-common channel signaling (CCS) trunks. When this field is set to 'N', answer supervision will be returned for all calls to this CALL TYPE\ID. When this field is set to 'Y', answer supervision will not be returned for any call to this CALL TYPE ID. This field should be set to 'N' if calls to this CALL TYPE ID come from an IC network or are not free. This field should be set to 'Y' if all calls to this CALL TYPE ID are free local calls. Bits 1-5 are left for future OSPS special feature development.

**Attribute: daa_ind**

**Fullname:** Direct agent access (DAA) indicator

**Attribute Description:** This attribute is DBYES only if DAA is assigned to this call type. DAA can only be assigned to C-ACD call types. If attribute 'daa_ind' is set to DBYES, then a call arriving on this call type should be routed directly to a specific agent instead of the ACD routing the call to an available agent.

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# ACB_CF

## 1. Description

Auto-call-back constructed feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 64 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head page size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |

## 3. Field Layout

```
ACB_CF      relid = 566   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL

     feat_id     DMMCC_FID    (ushort)     <--- key
 (a) filtr_op    DMBOOL       (enum: 1)
 (b) ffcf1       DMBOOL       (enum: 1)
 (c) ffcf2       DMBOOL       (enum: 1)
     bill_typ    DMMC_BILL    (struct)
 (d)     flat        DMBOOL       (enum: 1)
 (e)     usefreq1    DMBOOL       (enum: 1)
 (f)     usefreq2    DMBOOL       (enum: 1)
 (g)     usefreq3    DMBOOL       (enum: 1)
 (h)     usefreq4    DMBOOL       (enum: 1)
 (i)     actchrg     DMBOOL       (enum: 1)
 (j)     dactchrg    DMBOOL       (enum: 1)
 (k)     duration    DMBOOL       (enum: 1)
 (l)     change      DMBOOL       (enum: 1)

         User, Compacted and Stored Tuple Layout ACB_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               | | | |                         |
  0 |            feat_id            |a|b|c|*************************|
    |===============+==========  bill_typ ==========+===============|
    | | | | | | | | | |                                             |
  4 |d|e|f|g|h|i|j|k|l|*********************************************|
    |===============+===============+===============+===============|
                               ( 8 bytes )
```

## 4. Population Rules for RLacb_cf

### Relation Description

Auto-call-back constructed feature.

### Attribute: feat_id

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**Fullname:** Identifies the MCC constructed feature ID.

**Attribute Description:**

```
Permissible Domain: 1 - 65535 (0x0001 - 0xffff).
ACBC Admissible Domain: 0x3401 - 0x34c0.
```

***NOTE:*** ACBC has only one enabled binary feature option, and two parameter fields with 5, and 6 combinations respectively. The maximum number of possible preconstructed/constructed ACBC features (and hence feature tuples) is 60. The REL_DICT TMAX was set to 64. That is why the range of admissible values is not equal to the permissible range.

Default Value: No default.

Dependencies: Verify that RLfacname has a tuple such that feat_id = RLfacname.facid, and RLfacname.class = FACFEAT for that tuple.

**Attribute: bill_typ**

**Fullname:** Boolean structure indicating the combination of severals types of billing.

**Attribute Description:** MCC feature billing (charge) type. It is a structure of Boolean. In each case DBYES indicates that type of billing is applicable and DBNO indicates it is not. See DMmc_bill.h for a description of each sub-attribute.

Range: DBYES, DBNO for each sub-attribute.

Dependencies: If flat == DBYES all other sub-attributes == DBNO. If flat == DBNO, either usefreq1 or usefreq2 == DBYES, but not both. The sub-attributes usefreq3, usefreq4, actchrg, dactchrg, duration, and change will always equal DBNO for this feature.

Defaults: DBYES for flat, DBNO for all other sub-attributes.

**Attribute: bill_typ.flat**

**Fullname:** flat rate - no usage sensitive.

**Attribute Description:**

```
If flag = DBYES then all other sub-attributes = DBNO.
If flag = DBNO then either usefreq1 or usefreq2 = DBYES
```

but not both.

**Attribute: bill_typ.usefreq1**

**Fullname:** usage frequency charge - for use of event 1.

**Attribute Description:** See bill_typ.flat.

**Attribute: bill_typ.usefreq2**

**Fullname:** usage frequency charge - for use of enent 2.

**Attribute Description:** See bill_typ.flat.

**Attribute: bill_typ.usefreq3**

**Fullname:** useage frequency charge - for use of event 3.

**Attribute Description:** See bill_typ.flat.

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**Attribute: bill_typ.usefreq4**

**Fullname:** usage frequency charge - for use of event 4.

**Attribute Description:** See bill_typ.flat.

**Attribute: bill_typ.actchrg**

**Fullname:** usage charge for activation.

**Attribute Description:** See bill_typ.flat.

**Attribute: bill_typ.dactchrg**

**Fullname:** usage charge for deactivation.

**Attribute Description:** See bill_typ.flat.

**Attribute: bill_typ.duration**

**Fullname:** usage for duration of use.

**Attribute Description:** See bill_typ.flat.

**Attribute: bill_typ.change**

**Fullname:** usage charge for change of parameter.

**Attribute Description:** See bill_typ.flat.

**Attribute: filtr_op**

**Fullname:** Line to line acb campon filter option.

**Attribute Description:** Line to line ACB CAMPON filter option: select either intra-office or intra-terminal group campon restriction.

Range: Boolean value of DBNO and DBYES.

DBNO: restricted to intra-office.

DBYES: restricted to intra-terminal group.

**Attribute: ffcf[*]**

**Fullname:** Boolean reserved for future field feature.

**Attribute Description:** See fullname description.

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# ACB_OPTS

## 1. Description

Auto-call-back constructed feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 64 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| ks key store | AUTO |

## 3. Field Layout

```
ACB_OPTS    relid = 567   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP

     feat_id     DMMCC_FID    (ushort)     <--- key
 (a) ring_typ    DMMCDRING    (enum: 4)
 (b) ring_max    DMACB_MAXR   (enum: 3)
 (c) filtr_op    DMBOOL       (enum: 1)
     bill_typ    DMMC_BILL    (struct)
 (d)     flat        DMBOOL       (enum: 1)
 (e)     usefreq1    DMBOOL       (enum: 1)
 (f)     usefreq2    DMBOOL       (enum: 1)
 (g)     usefreq3    DMBOOL       (enum: 1)
 (h)     usefreq4    DMBOOL       (enum: 1)
 (i)     actchrg     DMBOOL       (enum: 1)
 (j)     dactchrg    DMBOOL       (enum: 1)
 (k)     duration    DMBOOL       (enum: 1)
 (l)     change      DMBOOL       (enum: 1)

        User, Compacted and Stored Tuple Layout   ACB_OPTS
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |       |     | |               |
 0 |             feat_id           |   a   |  b  |c|***************|
   |===============+==========  bill_typ ==========+===============|
   | | | | | | | | | |                                           |
 4 |d|e|f|g|h|i|j|k|l|*******************************************|
   |===============+===============+===============+===============|
                            ( 8 bytes )
```

## 4. Population Rules for RLacb_opts

### Relation Description

Auto-call-back constructed feature.

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**Attribute: feat_id**

**Fullname:** Identifies the MCC constructed feature id.

**Attribute Description:** Permissible Domain: 1 - 65535 (0x0001 - 0xffff).

ACBC Admissible Domain: 0x3401 - 0x34c0.

***NOTE:*** ACBC has only one enabled binary feature option, and two parameter fields with 5, and 8 combinations respectively. The maximum number of possible preconstructed/constructed ACBC features (and hence feature tuples) is 60. The REL_DICT TMAX was set to 64. That is why the range of admissible values is not equal to the permissible range.

Default Value: No default.

Dependencies: Verify that RLfacname has a tuple such that RLfacname.facid = feat_id, and RLfacname.

class = FACBRCS for that tuple.

**Attribute: bill_typ**

**Fullname:** Boolean structure indicating the combination of several types of billing.

**Attribute Description:** MCC feature billing (charge) type. It is a Boolean structure. In each case DBYES indicates that type of billing is applicable and DBNO indicates it is not. See DMmc_bill.h for a description of each sub-attribute.

Range: DBYES, DBNO for each sub-attribute.

Dependencies: If flat == DBYES all other sub-attributes == DBNO.

If flat == DBNO, either usefreq1 or usefreq2 == DBYES, but not both.

The sub-attributes usefreq3, usefreq4, actchrg, dactchrg, duration, and change will always equal DBNO for this feature.

Defaults: DBYES for flat, DBNO for all other sub-attributes.

**Attribute: bill_typ.flat**

**Fullname:** flat rate - no usage sensitive.

**Attribute Description:**

If flat = DBYES then all other sub-attributes = DBNO.

If flat = DBNO then either usefreq1 or usefreq2 = DBYES but not both.

**Attribute: bill_typ.usefreq1**

**Fullname:** usage frequency charge - for use of event 1.

**Attribute Description:** See bill_typ.

**Attribute: bill_typ.usefreq2**

**Fullname:** usage frequency charge - for use of enent 2.

**Attribute Description:** See bill_typ.

**Attribute: bill_typ.usefreq3**

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**Fullname:** useage frequency charge - for use of event 3.

**Attribute Description:** See bill_typ.

**Attribute: bill_typ.usefreq4**

**Fullname:** usage frequency charge - for use of event 4.

**Attribute Description:** See bill_typ.

**Attribute: bill_typ.actchrg**

**Fullname:** usage charge for activation.

**Attribute Description:** See bill_typ.

**Attribute: bill_typ.dactchrg**

**Fullname:** usage charge for deactivation.

**Attribute Description:** See bill_typ.

**Attribute: bill_typ.duration**

**Fullname:** usage for duration of use.

**Attribute Description:** See bill_typ.

**Attribute: bill_typ.change**

**Fullname:** usage charge for change of parameter.

**Attribute Description:** See bill_typ.

**Attribute: filtr_op**

**Fullname:** Line to line acb campon filter option.

**Attribute Description:** Line to line ACB CAMPON filter option: select either intra-office or intra-terminal group campon restriction.

Range: Boolean value of DBNO and DBYES.

DBNO: restricted to intra-office.

DBYES: restricted to intra-terminal group.

**Attribute: ring_typ**

**Fullname:** call-back ringing type.

**Attribute Description:** Select from one of eight cadences available to ACB feature user.

**Attribute: ring_max**

**Fullname:** call-back duration maximum.

**Attribute Description:** Specifies the maximum number of seconds the feature will attempt to recall the feature initiator.

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# ACB_PORT

## 1. Description

Auto-call-back feature parameters for port.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 72 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| foldtype | DBGC31 |
| density | 6 |

## 3. Field Layout

```
ACB_PORT    relid = 565   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP

     lport       DMLPORT      (ushort: 16)     <--- key
     feat_id     DMMCC_FID    (ushort)     <--- key
 (a) ring_typ    DMMCDRING    (enum: 4)
 (b) ring_max    DMACB_MAXR   (enum: 3)
 (c) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key

         User, Compacted and Stored Tuple Layout   ACB_PORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              lport            |            feat_id            |
    |---------------+---------------+---------------+---------------|
    |       |     | |   |                                           |
  4 |   a   |  b  |*| c |*******************************************|
    |---------------+---------------+---------------+---------------|
                             ( 8 bytes )
```

## 4. Population Rules for RLacb_port

### Relation Description

Automatic call back parameters assigned to a BRCS User.

Automatic call back parameters assigned to a BRCS user. A user is defined to be an analog terminal, a trunk, or an ISDN user). For ACBC, trunk users are not valid. The following is a list of valid service classes for ports associated with users assigned this feature: FC_INDVL, FC_4WIRE_INDV, RC_PBX, and FC_ISDN. Special entry for group parameter associated with the BRCS feature grouping (BFG), capability G268, is intended to improve recent change (RC) response time and provide for SM memory reduction. It permits the creation of groups of BRCS features and parameters, and the utilization of these groups by call processing. BFG group parameter relations will not be created, but will be populated in existing lport keyed relations. Identifying bfg group parameters will be accomplished via use of an lpt_type key field set to lpt_bfg and use of the lport key field to contain the bfg group id. This concept is used to avoid creation of new database relations. Distribution: group partitioned (if lpt_type=lpt_bfg) or sm partitioned. This relation now has two types of tuples.

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(1) The first type is the existing tuples which are SM-PARTITIONED and remain unchanged. They are keyed by lpt_type != LPT_BFG and lport, and no change has been made to this key or data.

(2) The second type is the BFG GROUP PARTITIONED TUPLE associated with features in a BRCS feature group (BFG), having lpt_type=LPT_BFG, and the bfgid populated in the lport field.

For BFG purposes, RLacb_port is a Group type. Therefore, only BFG Pseudo port tuple is permitted for the port assigned to a BFG. Individual post tuples may not be created for BFG assigned ports (when the feature is in the BFG).

***NOTE:*** There is a limit of 30 BRCS features for each bfgid.

**Attribute: lport**

***NOTE:*** There is a limit of 30 BRCS features for each bfgid

**Fullname:** Logical port of the User being assigned the BRCS features.

**Attribute Description** If lpt_type != LPT_BFG, RLacb_port.lport must equal RLfc_line.lport.

The keys for RLfc_line are:

```
RLfc_line.port = RLlpt_pt(RLacb_port.lport).port
RLfc_line.party = RLlpt_pt(RLacb_port.lport).party
If lpt_type = LPT_BFG, then RLacb_port.lport contains a BFG group
 ID.
```

Dependencies: If lpt_type != LPT_BFG, there must be a tuple in RLfc_porttyp keyed by the RLlpt_pt(lport,lpt_type).port such that RLfc_porttyp.servclass = FC_INDVDL, FC_ISDN, or FC_4WIRE_INDV. If lpt_type = LPT_BFG, the must be a tuple in RLbfgmatch keyed by the bfgid contained in RLacb_port.lport.

**Attribute: lpt_type**

**Fullname:** Logical port type of the User.

**Attribute Description:** Range: LPT_ISDN (for ISDN Users), LPT_BFG (for BFG tuples), or LPT_OTHER (for analog BRCS lines) Dependencies: RLacb_port.lpt_type must be identical to RLfc_line.lpt_type if the User is for an analog or ISDN terminal. The keys for RLfc_line are:

```
RLfc_line.port = RLlpt_pt(RLacb_port.lport).port
RLfc_line.party = RLlpt_pt(RLacb_port.lport).party
```

If lpt_type=LPT_BFG, then there must be a tuple in RLbfgmatch keyed by the bfgid contained in RLacb_port.lport. If RLfc_line.lpt_type=LPT_OTHER then RLfc_line.party must be FCP_INDI.

**Attribute: feat_id**

**Fullname:** Identifies the MCC constructed feature id

.**Attribute Description:**

***NOTE:*** ACBC has only one enabled binary feature option, and two parameter fields with 5, and 6 combinations respectively. The maximum number of possible preconstructed/constructed ACBC features (and hence feature tuples) is 60. That is why the range of admissible values is not equal to the permissible range. Dependencies:

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(1) Verify that RLfacname has a tuple such that feat_id = RLfacname.facid, and RLfacname.class = FACBRCS for that tuple.

(2) Verify existence of tuple in RLtrmfeats with this lport as key. This RLtrmfeats tuple must have an attribute such that feat_id = RLtrmfeats.ftent[n].fid

(3) Verify existence of tuple in RLacb_cf with this feat_id as key value.

**Attribute: ring_typ**

**Fullname:** Identifies type of call-back ringing cadence optioned.

**Attribute Description:** The ring_typ must be assigned DR_E or DR_F if and only if the port has RLfc_porttyp.servclass = FC_4WIRE_INDV.

**Attribute: ring_max**

**Fullname:** Call-back duration maximum.

**Attribute Description:** Specifies the maximum number of seconds the feature will attempt to recall the feature initiator.

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# ACC_DPCS

## 1. Description

This relation will contain the SCCP Accounting Global Title Index as a key and return the Subsystem numbers associated with the Primary and Backup DPCs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 100 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | DBNO |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
ACC_DPCS    relid = 2387  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     gttindx     DMUNS8       (ushort: 8)     <--- key, not stored
     acct_pdpc   DMHEX16      (ushort)
     acct_bdpc   DMHEX16      (ushort)

         User and Compacted Tuple Layout   ACC_DPCS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |    gttindx    |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |           acct_pdpc           |           acct_bdpc           |
    |---------------+---------------+---------------+---------------|
                           ( 8 bytes )

     acct_pdpc   DMHEX16      (ushort)
     acct_bdpc   DMHEX16      (ushort)

           Stored Tuple Layout     ACC_DPCS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |           acct_pdpc           |           acct_bdpc           |
    |---------------+---------------+---------------+---------------|
                             ( 4 bytes )
```

## 4. Population Rules for RLacc_dpcs

### Relation Description

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SCCP DPC Accounting Data

This relation will tie the SCCP DPC Accounting information together. The relation will provide the GT Digit String index, the DPC of GT and the Subsystem number to account. If the GTT has a Digit string equaling that of the GTT Index, the DPC from the GTT Translation matches the OPC and the SSN of the MSU equals one of the SSN Index numbers set in this tuple the MSU is accounted for by SCCP DPC Accounting.

**Attribute: gttindx**

**Fullname:** Global Title Index

**Attribute Description:** This attribute contains the Global Title Index of the digit string under SCCP DPC Accounting.

**Attribute: acct_bdpc**

**Fullname:** SCCP Accounting SSNs for the Backup DPC

**Attribute Description:** This attribute contains a bitmap of the possible SSN Index numbers being used by the Backup DPC of this GTT Digit String.

**Attribute: acct_pdpc**

**Fullname:** SCCP Accounting SSNs for the Primary DPC

**Attribute Description:** This attribute contains a bitmap of the possible SSN Index numbers being used by the Primary DPC of this GTT Digit String.

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# ACC_MTP

## 1. Description

This relation will contain the MTP Accounting data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 25000 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBDISK |
| distribution | DO |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
ACC_MTP     relid = 2388  DBSTATIC   DBACC_HASH  DBDISK    DO      DDBM

     dpc          DMDPC         (ulong: 24)     <--- key
     gsm          DMMODULE      (ushort: 8)     <--- key
     lsnum        DMUNS8        (ushort: 8)     <--- key
     si1          DMUNS5        (ushort: 5)
 (a) in_out       DMUNS1        (ushort: 1)     <--- key
     si2          DMUNS5        (ushort: 5)

         User, Compacted and Stored Tuple Layout    ACC_MTP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                       dpc                     |      gsm      |
    |---------------+---------------+---------------+---------------|
    |               |         | |   |         |                     |
  4 |     lsnum     |   si1   |a|***|   si2   |*********************|
    |---------------+---------------+---------------+---------------|
                              ( 8 bytes )
```

## 4. Population Rules for RLacc_mtp

### Relation Description

MTP Accounting Data

This relation will be used on the AM for the Traffic Measurement Hash Table in the MTP Accounting feature. The relation will contain all linksets, DPCs, GSMs, SI values used under the MTP Accounting in the GSMs. The AM must keep consistent with the SMs when updates are made to the MTP Accounting Data. If the AM undergoes an init, this relation will provide a recovery mechanism for the MTP Accounting Data in the AM.

### Attribute: dpc

**Fullname:** Destination Point Code

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**Attribute Description:** This attribute will contain the DPC that is being accounted for on the Linkset in this tuple. This attribute could contain the OPC of the GSM associated with this tuple. This will allow the customer to account for messages generated by or destined for this office.

**Attribute: gsm**

**Fullname:** Global Switching Module

**Attribute Description:** This attribute contains the GSM that is performing MTP Accounting

**Attribute: in_out**

**Fullname:** Incoming or Outgoing

**Attribute Description:** This attribute will indicate whether the accounted linkset is being accounted for as an incoming or an outgoing linkset. If the attribute is set to 0 (DBNO), it will indicate an outgoing linkset. If the attribute is set to 1 (DBYES), then the linkset is incoming.

**Attribute: lsnum**

**Fullname:** Linkset Number

**Attribute Description:** This attribute will contain a linkset that is being accounted for by the MTP Accounting feature.

**Attribute: si1**

**Fullname:** Service Indicator One

**Attribute Description:** This attribute will contain the first Service Indicator that is being accounted for on a linkset, destined for the point code in this tuple.

**Attribute: si2**

**Fullname:** Service Indicator Two

**Attribute Description:** This attribute will contain the second Service Indicator that is being accounted for on a linkset, destined for the point code in this tuple.

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# ACC_OPCS

## 1. Description

This relation will contain the SCCP Accounting Global Title Index and the OPC Index as the key. The tuple returned will contain as a data item a bitmap of the Subsystem number indexes associated with the GTT and OPC.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 5000 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ks key store or not | DBNO |

## 3. Field Layout

```
ACC_OPCS    relid = 2389  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL

     gttindx     DMUNS8       (ushort: 8)     <--- key, not stored
     gtpcindx    DMUNS8       (ushort: 8)     <--- key, not stored
     acct_ssn    DMHEX16      (ushort)

         User and Compacted Tuple Layout   ACC_OPCS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |    gttindx    |    gtpcindx   |*******************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            acct_ssn           |*******************************|
    |---------------+---------------+---------------+---------------|
                               ( 8 bytes )

     acct_ssn    DMHEX16      (ushort)

           Stored Tuple Layout     ACC_OPCS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            acct_ssn           |*******************************|
    |---------------+---------------+---------------+---------------|
                               ( 2 bytes )
```

## 4. Population Rules for RLacc_opcs

### Relation Description

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SCCP OPC Accounting Data

The relation will tie the SCCP OPC Accounting Information together. This relation will provide the GT Digit String Index, the OPC from the MSU and the Subsystem Numbers to account.

**Attribute: gtpcindx**

**Fullname:** SCCP Point Code Index

**Attribute Description:** The Index of the SCCP Point Code being accounted by the SCCP OPC Accounting feature.

**Attribute: gttindx**

**Fullname:** Index of the GT Digit String

**Attribute Description:** The Index of the GT Digit String being accounted for by the SCCP OPC Accounting feature.

**Attribute: acct_ssn**

**Fullname:** Bitmap of SSNs

**Attribute Description:** Bitmap of the Accounted SSNs for this GT Digit String and Point Code.

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# ACC_SI

## 1. Description

This relation will contain the information necessary for the verification and accumulation of combinations of Linkset, DPCs and SI values for the MTP Accounting feature. The Indices of the Linkset and DPCs will be used for relational compaction. The keys in to the relation are the linkset index and a boolean bit indicating the direction of the linkset (incoming or out-going) An array is used to hold all possible SI values, with the DPC index used as the array element.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 200 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
ACC_SI      relid = 2390  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL

 (a) in_out      DMBOOL       (enum: 1)     <--- key
     spare       DMUNS7       (ushort: 7)
     acclsindx   DMUNS8       (ushort: 8)     <--- key
     acc001      DMUSHORT     (ushort)
     acc002      DMUSHORT     (ushort)
     acc003      DMUSHORT     (ushort)
     acc004      DMUSHORT     (ushort)
     acc005      DMUSHORT     (ushort)
     acc006      DMUSHORT     (ushort)
     acc007      DMUSHORT     (ushort)
     acc008      DMUSHORT     (ushort)
     acc009      DMUSHORT     (ushort)
     acc010      DMUSHORT     (ushort)
     acc011      DMUSHORT     (ushort)
     acc012      DMUSHORT     (ushort)
     acc013      DMUSHORT     (ushort)
     acc014      DMUSHORT     (ushort)
     acc015      DMUSHORT     (ushort)
     acc016      DMUSHORT     (ushort)
     acc017      DMUSHORT     (ushort)
     acc018      DMUSHORT     (ushort)
     acc019      DMUSHORT     (ushort)
     acc020      DMUSHORT     (ushort)
     acc021      DMUSHORT     (ushort)
     acc022      DMUSHORT     (ushort)
     acc023      DMUSHORT     (ushort)
     acc024      DMUSHORT     (ushort)
     acc025      DMUSHORT     (ushort)
```

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```
acc026      DMUSHORT     (ushort)
acc027      DMUSHORT     (ushort)
acc028      DMUSHORT     (ushort)
acc029      DMUSHORT     (ushort)
acc030      DMUSHORT     (ushort)
acc031      DMUSHORT     (ushort)
acc032      DMUSHORT     (ushort)
acc033      DMUSHORT     (ushort)
acc034      DMUSHORT     (ushort)
acc035      DMUSHORT     (ushort)
acc036      DMUSHORT     (ushort)
acc037      DMUSHORT     (ushort)
acc038      DMUSHORT     (ushort)
acc039      DMUSHORT     (ushort)
acc040      DMUSHORT     (ushort)
acc041      DMUSHORT     (ushort)
acc042      DMUSHORT     (ushort)
acc043      DMUSHORT     (ushort)
acc044      DMUSHORT     (ushort)
acc045      DMUSHORT     (ushort)
acc046      DMUSHORT     (ushort)
acc047      DMUSHORT     (ushort)
acc048      DMUSHORT     (ushort)
acc049      DMUSHORT     (ushort)
acc050      DMUSHORT     (ushort)
acc051      DMUSHORT     (ushort)
acc052      DMUSHORT     (ushort)
acc053      DMUSHORT     (ushort)
acc054      DMUSHORT     (ushort)
acc055      DMUSHORT     (ushort)
acc056      DMUSHORT     (ushort)
acc057      DMUSHORT     (ushort)
acc058      DMUSHORT     (ushort)
acc059      DMUSHORT     (ushort)
acc060      DMUSHORT     (ushort)
acc061      DMUSHORT     (ushort)
acc062      DMUSHORT     (ushort)
acc063      DMUSHORT     (ushort)
acc064      DMUSHORT     (ushort)
acc065      DMUSHORT     (ushort)
acc066      DMUSHORT     (ushort)
acc067      DMUSHORT     (ushort)
acc068      DMUSHORT     (ushort)
acc069      DMUSHORT     (ushort)
acc070      DMUSHORT     (ushort)
acc071      DMUSHORT     (ushort)
acc072      DMUSHORT     (ushort)
acc073      DMUSHORT     (ushort)
acc074      DMUSHORT     (ushort)
acc075      DMUSHORT     (ushort)
acc076      DMUSHORT     (ushort)
acc077      DMUSHORT     (ushort)
acc078      DMUSHORT     (ushort)
acc079      DMUSHORT     (ushort)
```

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```
acc080      DMUSHORT     (ushort)
acc081      DMUSHORT     (ushort)
acc082      DMUSHORT     (ushort)
acc083      DMUSHORT     (ushort)
acc084      DMUSHORT     (ushort)
acc085      DMUSHORT     (ushort)
acc086      DMUSHORT     (ushort)
acc087      DMUSHORT     (ushort)
acc088      DMUSHORT     (ushort)
acc089      DMUSHORT     (ushort)
acc090      DMUSHORT     (ushort)
acc091      DMUSHORT     (ushort)
acc092      DMUSHORT     (ushort)
acc093      DMUSHORT     (ushort)
acc094      DMUSHORT     (ushort)
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acc096      DMUSHORT     (ushort)
acc097      DMUSHORT     (ushort)
acc098      DMUSHORT     (ushort)
acc099      DMUSHORT     (ushort)
acc100      DMUSHORT     (ushort)
acc101      DMUSHORT     (ushort)
acc102      DMUSHORT     (ushort)
acc103      DMUSHORT     (ushort)
acc104      DMUSHORT     (ushort)
acc105      DMUSHORT     (ushort)
acc106      DMUSHORT     (ushort)
acc107      DMUSHORT     (ushort)
acc108      DMUSHORT     (ushort)
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acc124      DMUSHORT     (ushort)
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acc130      DMUSHORT     (ushort)
acc131      DMUSHORT     (ushort)
acc132      DMUSHORT     (ushort)
acc133      DMUSHORT     (ushort)
```

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```
acc134      DMUSHORT     (ushort)
acc135      DMUSHORT     (ushort)
acc136      DMUSHORT     (ushort)
acc137      DMUSHORT     (ushort)
acc138      DMUSHORT     (ushort)
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acc182      DMUSHORT     (ushort)
acc183      DMUSHORT     (ushort)
acc184      DMUSHORT     (ushort)
acc185      DMUSHORT     (ushort)
acc186      DMUSHORT     (ushort)
acc187      DMUSHORT     (ushort)
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```
acc188      DMUSHORT     (ushort)
acc189      DMUSHORT     (ushort)
acc190      DMUSHORT     (ushort)
acc191      DMUSHORT     (ushort)
acc192      DMUSHORT     (ushort)
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acc231      DMUSHORT     (ushort)
acc232      DMUSHORT     (ushort)
acc233      DMUSHORT     (ushort)
acc234      DMUSHORT     (ushort)
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acc236      DMUSHORT     (ushort)
acc237      DMUSHORT     (ushort)
acc238      DMUSHORT     (ushort)
acc239      DMUSHORT     (ushort)
acc240      DMUSHORT     (ushort)
acc241      DMUSHORT     (ushort)
```

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```
     acc242      DMUSHORT     (ushort)
     acc243      DMUSHORT     (ushort)
     acc244      DMUSHORT     (ushort)
     acc245      DMUSHORT     (ushort)
     acc246      DMUSHORT     (ushort)
     acc247      DMUSHORT     (ushort)
     acc248      DMUSHORT     (ushort)
     acc249      DMUSHORT     (ushort)
     acc250      DMUSHORT     (ushort)

         User, Compacted and Stored Tuple Layout ACC_SI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | |             |               |                               |
  0 |a|    spare    |   acclsindx   |             acc001            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             acc002            |             acc003            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |             acc004            |             acc005            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |             acc006            |             acc007            |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                               |                               |
488 |             acc244            |             acc245            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
492 |             acc246            |             acc247            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
496 |             acc248            |             acc249            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
500 |             acc250            |*******************************|
    |---------------+---------------+---------------+---------------|
                           ( 504 bytes )

domain alACC_SI   struct  (1 sub-attributes)

         Structure Layout      alACC_SI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                               acc                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
```

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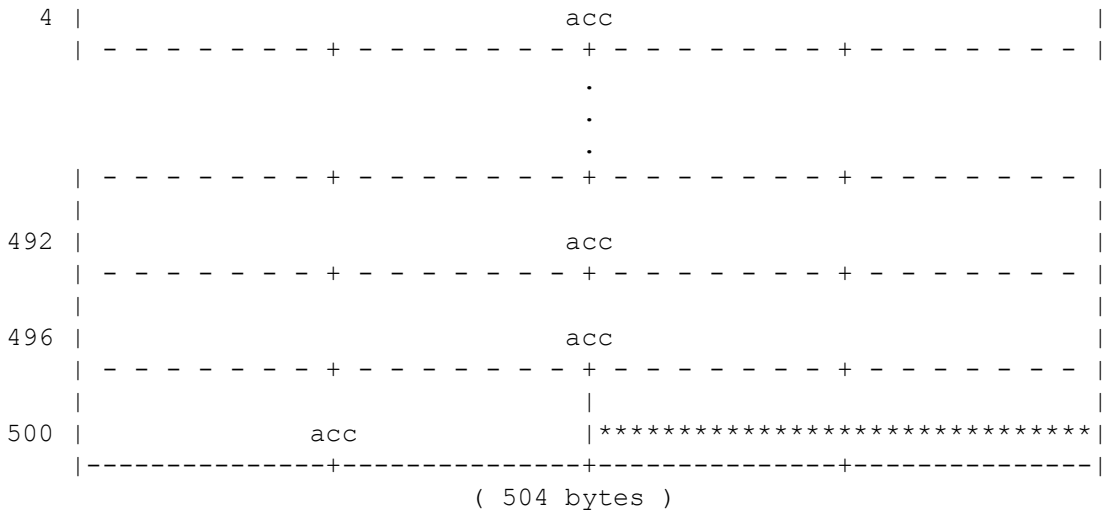


## 4. Population Rules for RLacc_si

**Relation Description**

MTP Accounting Service Indicator

The relation will contain the information necessary for the verification and accumulation of combinations of Linksets DPCs and SI values for the MTP Accounting feature. The Indices of the parameters, linkset, and DPC will be used for compaction. The keys into the relation are the Linkset Index and a boolean indicating whether the Linkset is being accounted for as an incoming linkset or and outgoing linkset. An array is used to hold all possible SI values, with the ACCPCINDX used as an array element.

**Attribute: acclsindx**

**Fullname:** MTP Accounted Linkset Index

**Attribute Description:** Linkset Index of an MTP Accounted Linkset

**Attribute: in_out**

**Fullname:** Incoming or Outgoing

**Attribute Description:** This attribute will be used to indicate whether the linkset DPC, and SI values are accounted as an incoming linkset or an outgoing linkset. If the attribute is set to 0 (DBNO) it will indicate an Outgoing Linkset. If the attribute is set to 1 (DBYES) then the linkset is incoming.

**Attribute: acc[*]**

**Fullname:** Accounting SIs Array

**Attribute Description:** This array will contain two Service Indicator Values. The values will be stored in the short in the following manner:

```
------------------
|  SI 1  |  SI 2  |
------------------
```

The alternate structure will be defined to allow the user to access the array as an array.

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# ACCGTTID

## 1. Description

This relation will be used by the SCCP Accounting feature to define a GT Digit string to be used for Accounting. The GT Strings must be defined as an SCCP digit string before being placed on accounting. The translation group will be used to indicate the number of fixed, primary and secondary digits used in the GT string. Each GT digit string will be given an index for faster access and compaction.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 100 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
ACCGTTID    relid = 2391  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL

     gttindx     DMUNS8       (ushort: 8)
     tran_gp     DMUNS6       (ushort: 6)     <--- key
     num_opcs    DMUNS6       (ushort: 6)
     digit1      DMUNS4HEX    (ushort: 4)     <--- key
     digit2      DMUNS4HEX    (ushort: 4)     <--- key
     digit3      DMUNS4HEX    (ushort: 4)     <--- key
     digit4      DMUNS4HEX    (ushort: 4)     <--- key
     digit5      DMUNS4HEX    (ushort: 4)     <--- key
     digit6      DMUNS4HEX    (ushort: 4)     <--- key
     digit7      DMUNS4HEX    (ushort: 4)     <--- key
     digit8      DMUNS4HEX    (ushort: 4)     <--- key
 (a) num_digit   DMUNS4       (ushort: 4)

         User, Compacted and Stored Tuple Layout   ACCGTTID
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |           |   |           |       |       |   |
  0 |    gttindx    |  tran_gp  |***|  num_opcs | digit1| digit2|***|
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
  4 | digit3| digit4| digit5| digit6| digit7| digit8|   a   |*******|
    |---------------+---------------+---------------+---------------|
                            ( 8 bytes )
```

## 4. Population Rules for RLaccgttid

### Relation Description

SCCP Accounting GT Digit String to Index relation

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This relation will be used by the SCCP Accounting feature to define a GT Digit Strings to be used for accounting. The GT Digit String must be defined as an SCCP Digit string before being placed on accounting. The translation group will be used to indicate the number of Fixed, Primary and Secondary digits used in the GT Strings. Each GT Digit String will be given an index for faster access and relational compaction.

**Attribute: digit[*]**

**Fullname:** Digits of the GT Digit String

**Attribute Description:** Digits of a Digit String used in the SCCP Accounting feature. There can be up to 8 digits defined for SCCP Accounting.

**Attribute: tran_gp**

**Fullname:** Translation Group

**Attribute Description:** Translation Group used in the SCCP Accounting.

**Attribute: gttindx**

**Fullname:** GT Digit String Index

**Attribute Description:** Global Title Digit String Index for the SCCP Accounting feature.

**Attribute: num_digit**

**Fullname:** Number of digits

**Attribute Description:** Number of Digits used for the Global Title Translation.

**Attribute: num_opcs**

**Fullname:** Number of OPCs

**Attribute Description:** Number of OPCs being accounted for on this GT Digit string.

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# ACCI_DPC

## 1. Description

This relation will contain the MTP Accounting DPC data. The Accounted DPC index will be used as the key with the DPC value and the number of Linksets this DPC is being accounted on as data items in the relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 250 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ks key store | DBNO |

## 3. Field Layout

```
ACCI_DPC    relid = 2392  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     accpcindx   DMUNS8       (ushort: 8)     <--- key, not stored
     dpc         DMDPC        (ulong: 24)
     num_ls      DMUNS8       (ushort: 8)

         User and Compacted Tuple Layout   ACCI_DPC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |   accpcindx   |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  4 |                      dpc                      |     num_ls    |
    |---------------+---------------+---------------+---------------|
                           ( 8 bytes )
     dpc         DMDPC        (ulong: 24)
     num_ls      DMUNS8       (ushort: 8)

           Stored Tuple Layout     ACCI_DPC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                      dpc                      |     num_ls    |
    |---------------+---------------+---------------+---------------|
                              ( 4 bytes )
```

## 4. Population Rules for RLacci_dpc

### Relation Description

MTP Accounting Index to DPC

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The relation will be used to provide the reverse mapping needed for the MTP Accounting features. The relation will be required for the population of a Dynamic table found in the SMP and used when sending reports up to the AM.

**Attribute: accpcindx**

**Fullname:** MTP Accounting Point Code Index

**Attribute Description:** This attribute will contain the index used to indicate a Point Code which is being used in the MTP Accounting feature.

**Attribute: dpc**

**Fullname:** Destination Point Code

**Attribute Description:** This attribute, dpc, defines a Point Code to which we have a signaling connection to via a signaling link. The dpc/opc is being Accounted for by the MTP Accounting feature.

**Attribute: num_ls**

**Fullname:** Number of Linksets

**Attribute Description:** Number of Linksets on which this dpc is being Accounted for under the MTP Accounting feature.

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# ACCI_LS

## 1. Description

This relation will contain the MTP Accounting Linkset information. The key will be the Linkset index, returning the linkset number and the number of DPCs being accounted on the linkset.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 100 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
ACCI_LS     relid = 2393  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     acclsindx   DMUNS8       (ushort: 8)     <--- key
     lsnum       DMUNS8       (ushort: 8)
     in_dpcnt    DMUNS8       (ushort: 8)
     out_dpcnt   DMUNS8       (ushort: 8)

         User, Compacted and Stored Tuple Layout    ACCI_LS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  0 |   acclsindx   |     lsnum     |    in_dpcnt   |   out_dpcnt   |
    |---------------+---------------+---------------+---------------|
                           ( 4 bytes )
```

## 4. Population Rules for RLacci_ls

### Relation Description

MTP Accounting Linkset Index to Linkset Number

This relation will be used to provide the reverse mapping between the Accounting Linkset Index and the Linkset Value for the MTP Accounting feature.

**Attribute: acclsindx**

**Fullname:** MTP Accounting Linkset Index

**Attribute Description:** Index of a linkset on MTP Accounting.

**Attribute: in_dpcnt**

**Fullname:** Count of the Incoming DPCs

**Attribute Description:** Number of DPCs being accounted on the Incoming Linkset.

**Attribute: lsnum**

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**Fullname:** Accounting Linkset Value

**Attribute Description:** The linkset values that are being accounted under the MTP Accounting feature.

**Attribute: out_dpcnt**

**Fullname:** Count of the Outgoing DPCs

**Attribute Description:** Number of DPCS being accounted on the Outgoing Linkset.

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# ACCSTT

## 1. Description

ACCS special treatment table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
ACCSTT      relid = 338   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     callng_dn   DMLNOCDN     (struct)     <--- key
         lnoc        DMLNOC       (ushort: 14)
         digits      DMLINENO     (ushort: 14)
 (a) prmt_trtmt  DMPRMPTRT    (enum: 2)

         User, Compacted and Stored Tuple Layout ACCSTT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+========== callng_dn ==========+===============|
    |                            |   |                             |   |
  0 |            lnoc            |***|           digits            |***|
    |===============+===============+===============+===============|
    |   |                                                           |
  4 | a |***********************************************************|
    |---------------+---------------+---------------+---------------|
                              ( 8 bytes )
```

## 4. Population Rules for RLaccstt

### Relation Description

ACCS special treatment table. Automatic Calling Card Service (ACCS) special treatment table.

**Attribute: callng_dn**

**Fullname:** Calling directory number

**Attribute Description:** The calling directory number. Range is a 10 digit dn where the DN is of the form 0-12799 for the lnoc (NPA-NXX) and XXXX for the line number. The XXXX range is 0-9999.

**Attribute: callng_dn.lnoc**

**Fullname:** lnoc for calling dn

**Attribute Description:** lnoc for calling dn.

**Attribute: callng_dn.digits**

**Fullname:** line number for calling dn

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**Attribute Description:** Line number (digits) for calling dn.

**Attribute: prmt_trtmt**

**Fullname:** ACCS prompt treatment

**Attribute Description:** ACCS prompt treatment.

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# ACCT_CF

## 1. Description

Account code (ACCT) constructed feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 40 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| permutation type | un_perm |

## 3. Field Layout

```
ACCT_CF     relid = 737   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     feat_id     DMMCC_FID    (ushort)     <--- key
 (a) ama_field   DMACCT_FLD   (enum: 2)
     actvn       DMMC_ACTYP   (enum: 3)
 (b) dctvn       DMMC_DCTYP   (enum: 2)
 (c) cd_as_alw   DMBOOL       (enum: 1)
 (d) parm_actvn  DMMC_ACTYP   (enum: 3)
     amac        DMMC_BILL    (struct)
 (e)     flat        DMBOOL       (enum: 1)
 (f)     usefreq1    DMBOOL       (enum: 1)
 (g)     usefreq2    DMBOOL       (enum: 1)
 (h)     usefreq3    DMBOOL       (enum: 1)
 (i)     usefreq4    DMBOOL       (enum: 1)
 (j)     actchrg     DMBOOL       (enum: 1)
 (k)     dactchrg    DMBOOL       (enum: 1)
 (l)     duration    DMBOOL       (enum: 1)
 (m)     change      DMBOOL       (enum: 1)

         User, Compacted and Stored Tuple Layout    ACCT_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |   |     |   | |     |         |
  0 |            feat_id            | a |actvn| b |c|  d  |*********|
    |===============+============  amac ============+===============|
    | | | | | | | | | |                                             |
  4 |e|f|g|h|i|j|k|l|m|*********************************************|
    |===============+===============+===============+===============|
                              ( 8 bytes )
```

## 4. Population Rules for RLacct_cf

### Relation Description

Any constructed ACCT feature can be assigned to a line/trunk as active or inactive, independent of the activation/deactivation type, but only one ACCT feature can be assigned to any line/trunk.

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Measurements for the ACCT feature are reflected in MS_CFT as constructed feature measurements.

Any constructed ACCT feature can be assigned to a line/trunk as

```
-----------------------------------
/ACCTETS - ETS Account Code Feature

actvn       ACTNONE
dctvn       DCTNONE
amac        FLAT
ama_field   DIG8
cd_as_alw   DBNO
parm_actvn  ACTNONE

/ACCTDLX - Account Code Deluxe Feature

actvn       ACTCD
dctvn       DCTCD
amac        FLAT
ama_field   CHAR15
cd_as_alw   DBYES
parm_actvn  ACTCD

WILDCARD FEATURE NAME
---------------------
NAME: /AC
```

**Attribute: feat_id**

**Fullname:** Account Code constructed feature ID

**Attribute Description:** Constructed feature identification. Range: 4001 (hex) to 43ff (hex).

**Attribute: ama_field**

**Fullname:** 8-digit or 15-character account code field in the AMA record

**Attribute Description:** Indicates whether the feature produces an AMA record with an 8-digit ACCT field or a 15-character account code field.

**Attribute: actvn**

**Fullname:** Feature activation type

**Attribute Description:** Method of activating a constructed feature. This is permanent activation. One call activation is not provided. dependencies:

```
ACTNONE - RLacct_cf.dctvn = DCTNONE
          RLacct_cf.amac.flat = DBYES
ACTCD -   RLacct_cf.dctvn = DCTCD
          *** ODA ONLY WARNING ***
          *** (NOT SUPPORTED BY RC) ***
```

To activate the feature via a dialed code, verify that RLdaprlfnl and/or RLidp_dtre have a tuple for a given dialed code with action = ACN_ACTACCT.

**Attribute: dctvn**

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**Fullname:** Feature deactivation type

**Attribute Description:** Method of deactivating a constructed feature. This is permanent deactivation. One call deactivation is not provided.

```
DCTNONE - RLacct_cf.actvn = ACTNONE
          RLacct_cf.amac.flat = DBYES
DCTCD -   RLacct_cf.actvn = ACTCD
          *** ODA ONLY WARNING ***
          *** (NOT SUPPORTED BY RC) ***
```

To deactivate the feature using a dialed code, verify that RLdaprlfnl and/or RLidp_dtre have a tuple for a given dialed code with action = ACN_DCTACCT.

**Attribute: cd_as_alw**

**Fullname:** Preset code association allowed

**Attribute Description:** Indicates whether preset code associations are allowed. This sequence can be any complete dialable sequence of digits up to 10 digits: a DN, a feature group D carrier access code, feature code, routing information, and so forth.

**Attribute: parm_actvn**

**Fullname:** Parameter set activation type

**Attribute Description:** Method of activating an ACCT parameter set. The activation of the parameter set is permanent. One call activation of *** ODA ONLY WARNING *** *** (NOT SUPPORTED BY RC) *** To activate the feature parameter set using a dialed code, verify that RLdaprlfnl and/or RLidp_dtre have a tuple for a given dialed code with action = ACN_MAINACT and another tuple with ACN_ALTACT. The ACCT group effected is the ACCT group assigned to the originating port. All ports assigned to that group are also effected.

**Attribute: amac**

**Fullname:** AMA charging

**Attribute Description:** Boolean structure indicating the combination of ama charging. In each case a DBYES indicates the type of billing is applicable and DBNO indicates it is not. See domain DMmc_bill for a description of each sub-attribute.

**Attribute: amac.flat**

**Fullname:** Flat rate - no usage sensitive charge

**Attribute Description:** Indicates flat rate - no other types of billing found in this structure apply.

If flat == DBYES, all other subattributes = DBNO.

If flat == DBNO, one or more subattributes = DBYES

**Attribute: amac.usefreq1**

**Fullname:** Usage frequency charge - for use of event 1

**Attribute Description:** Indicates billing applies for frequency charge of usage of event 1.

**Attribute: amac.usefreq2**

**Fullname:** Usage frequency charge - for use of event 2

**Attribute Description:** Usage frequency charge - for use of event 2.

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**Attribute: amac.usefreq3**
**Fullname:** Usage frequency charge - for use of event 3

**Attribute Description:** Usage frequency charge - for use of event 3.

**Attribute: amac.usefreq4**
**Fullname:** Usage frequency charge - for use of event 4

**Attribute Description:** Usage frequency charge - for use of event 4.

**Attribute: amac.actchrg**
**Fullname:** Usage charge for activation

**Attribute Description:** Indicates usage charge for activation applies.

**Attribute: amac.dactchrg**
**Fullname:** Usage charge for deactivation

**Attribute Description:** Indicates usage charge for deactivation applies.

**Attribute: amac.duration**
**Fullname:** Usage charge for duration of use

**Attribute Description:** Indicates usage charge for duration of use applies.

**Attribute: amac.change**
**Fullname:** Usage charge for change of parameter

**Attribute Description:** Indicates usage charge for change of parameter applies.

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# ACCT_GP

## 1. Description

Account code (ACCT) group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65535 |
| expected tuples in relation | 60 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| corcable | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
ACCT_GP     relid = 738   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP
     gpid        DMFACID      (ushort)     <--- key
     main_parms  DMACCT_PRM   (struct)
         annc_ind    DMSYSID      (short)
 (a)     ama_rec     DMBOOL       (enum: 1)
 (b)     mdr_rec     DMBOOL       (enum: 1)
 (c)     ama_req     DMBOOL       (enum: 1)
 (d)     mdr_req     DMBOOL       (enum: 1)
 (e)     ama_rstrct  DMBOOL       (enum: 1)
 (f)     mdr_rstrct  DMBOOL       (enum: 1)
 (g)     rstrct_trt  DMMC_ERTRT   (enum: 3)
 (h)     prmpt_trt   DMMC_TONE    (enum: 3)
     alt_parms   DMACCT_PRM   (struct)
         annc_ind    DMSYSID      (short)
 (i)     ama_rec     DMBOOL       (enum: 1)
 (j)     mdr_rec     DMBOOL       (enum: 1)
 (k)     ama_req     DMBOOL       (enum: 1)
 (l)     mdr_req     DMBOOL       (enum: 1)
 (m)     ama_rstrct  DMBOOL       (enum: 1)
 (n)     mdr_rstrct  DMBOOL       (enum: 1)
 (o)     rstrct_trt  DMMC_ERTRT   (enum: 3)
 (p)     prmpt_trt   DMMC_TONE    (enum: 3)
 (q) act_parms   DMPARM_SET   (enum: 1)
     acct_l      DMUNS4       (ushort: 4)
     toll_si     DMSCRNIDX    (ushort: 12)
 (r) dpat_ovrd   DMBOOL       (enum: 1)
 (s) tod_inh     DMBOOL       (enum: 1)
 (t) ffcf1       DMBOOL       (enum: 1)
     ffcf2       DMHEX16      (ushort)

         User, Compacted and Stored Tuple Layout    ACCT_GP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |                             |                             |
  0 |              gpid           |*****************************|
```

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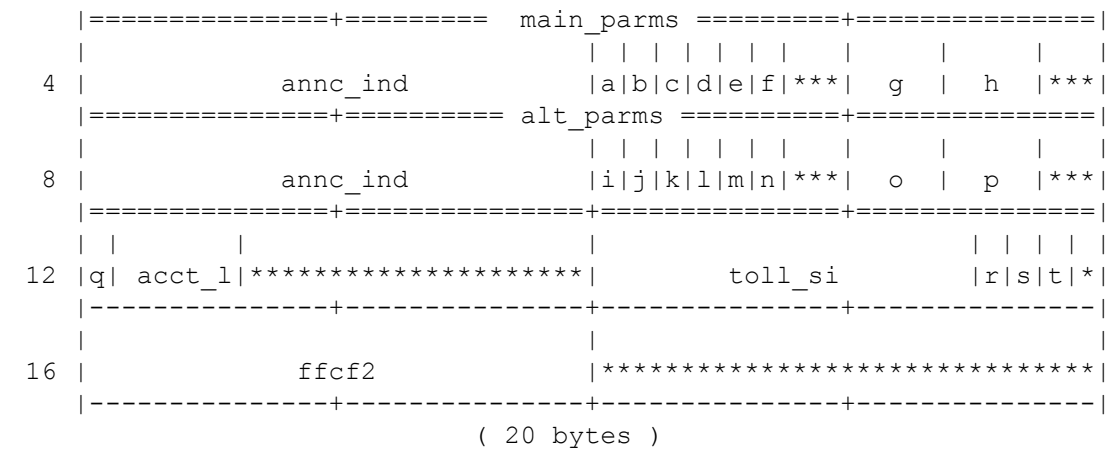


## 4. Population Rules for RLacct_gp

**Relation Description**

Account code (ACCT) group parameters.

Account code group parameters.

IMPORTANT: If there is a change to the key(s) of this relation, YOU MUST NOTIFY the owner of the logging module, db/DBrclog. A coordinated change MUST be made to the logging code or your data will NOT be recovered.

Since the key for this relation is assigned sequentially, the engineering assumes only 7 bits of the key are used. This allows for 128 maximum tuples in the relation without reengineering.

**Attribute: gpid**

**Fullname:** Account group identification

**Attribute Description:** This attribute contains the account code group identification.

**Attribute: main_parms**

**Fullname:** Main parameter set

**Attribute Description:** Structure indicating the set of main ACCT parameters. See DMacct_prm for a description, range of values and default of each sub-attribute.

**Attribute: main_parms.annc_ind**

**Fullname:** Announcement index for restriction treatment

**Attribute Description:** Announcement index for restriction treatment. Specifies an announcement index to be used if the call is blocked because an ACCT was not dialed and restriction treatment is ER_ANNC.

**Attribute: main_parms.ama_rec**

**Fullname:** Dialed account code included in automatic message accounting (AMA) records

**Attribute Description:** Indicates whether an AMA record is required when an ACCT is dialed. If AMA required is set to DBYES then prompt treatment must not be null.

**Attribute: main_parms.mdr_rec**

**Fullname:** Dialed account code included in message detail recording (MDR) records.

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**Attribute Description:** Indicates whether the dialed ACCT is included in MDR records.

**Attribute: main_parms.ama_req**
**Fullname:** AMA recording required for account code dialed calls

**Attribute Description:** Indicates whether an AMA record is required when an ACCT is dialed.

**Attribute: main_parms.mdr_req**
**Fullname:** MDR recording required for account code dialed calls

**Attribute Description:** Indicates whether an MDR record is required when an ACCT is dialed.

**Attribute: main_parms.ama_rstrct**
**Fullname:** Restrict AMA recorded calls dialed without an account code

**Attribute Description:** Indicates whether AMA recorded calls are restricted without an ACCT.

**Attribute: main_parms.mdr_rstrct**
**Fullname:** Restrict MDR recorded calls dialed without an account code

**Attribute Description:** Indicates whether MDR recorded calls are restricted without an ACCT.

**Attribute: main_parms.rstrct_trt**
**Fullname:** Restriction treatment for blocked calls dialed without an account code

**Attribute Description:** Prompt for restricted calls.

**Attribute: main_parms.prmpt_trt**
**Fullname:** Prompt treatment for dialing the account code

**Attribute Description:** Prompt for customer to dial an ACCT.

**Attribute: alt_parms**
**Fullname:** Alternate parameter set

**Attribute Description:** Structure indicating the set of alternate ACCT parameters. See DMacct_prm for details on sub-attributes.

**Attribute: alt_parms.annc_ind**
**Fullname:** Announcement index for restriction treatment

**Attribute Description:** Announcement index for restriction treatment. Specifies an announcement index to be used if the call is blocked because an ACCT was not dialed and restriction treatment is ER_ANNC.

**Attribute: alt_parms.ama_rec**
**Fullname:** Dialed account code included in AMA records

**Attribute Description:** Indicates whether an AMA record is required when an ACCT is dialed. If AMA required is set to DBYES then prompt treatment must not be null.

**Attribute: alt_parms.mdr_rec**
**Fullname:** Dialed account code included in MDR records

**Attribute Description:** Indicates whether the dialed ACCT is included in MDR records.

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**Attribute: alt_parms.ama_req**

**Fullname:** AMA recording required for account code dialed calls

**Attribute Description:** Indicates whether an AMA record is required when an ACCT is dialed.

**Attribute: alt_parms.mdr_req**

**Fullname:** MDR recording required for account code dialed calls

**Attribute Description:** Indicates whether an MDR record is required when an ACCT is dialed.

**Attribute: alt_parms.ama_rstrct**

**Fullname:** Restrict AMA recorded calls dialed without an account code

**Attribute Description:** Indicates whether AMA recorded calls are restricted without an ACCT.

**Attribute: alt_parms.mdr_rstrct**

**Fullname:** Restrict MDR recorded calls dialed without an account code.

**Attribute Description** Indicates whether MDR recorded calls are restricted without an ACCT.

**Attribute: alt_parms.rstrct_trt**

**Fullname:** Restriction treatment for blocked calls dialed without an account code.

**Attribute Description:** Prompt for restricted calls.

**Attribute: alt_parms.prmpt_trt**

**Fullname:** Prompt treatment for dialing the account code.

**Attribute Description:** Prompt for customer to dial an ACCT.

**Attribute: act_parms**

**Fullname:** Active account code parameter set.

**Attribute Description:** Active set of ACCT parameters. This attribute indicates which ACCT parameter set is active. This parameter can be changed via dialed code, if RLacct_cf.parm_actvn = ACTCD. Switching between MAIN_PARMS and ALT_PARMS or vice versa provides the customer the ability to change between the values of the attributes in the MAIN_PARMS parameter set and the values of those same attributes in the ALT_PARMS parameter set. Some or all of the values of attributes in the MAIN_PARMS parameter set, may be the same as the values of those attributes in the ALT_PARMS parameter.

**Attribute: acct_l**

**Fullname:** Length of the account code

**Attribute Description:** Length of the ACCT for lines using this group definition.

**Attribute: tod_inh**

**Fullname:** Time-of-day (TOD) inhibit flag

**Attribute Description:** Specifies whether time-of-day changes to ACCT group data are inhibited. This field is intended to be used by end customers through the facilities management feature, allowing a customer to temporarily deactivate TOD scheduled changes. This field only inhibits TOD originated recent changes (TORC)s, not customer oriented recent changes (CORC)s.

**Attribute: toll_si**

**Fullname:** TOLL Screening Index

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**Attribute Description:** Hold screening index to override toll diversion to an attendant.

**Attribute: dpat_ovrd**

**Fullname:** DPAT override flag

**Attribute Description:** Indicates if DPAT restrictions can be overridden when making an associated ACCT call.

**Attribute: ffcf1**

**Fullname:** Boolean reserved for future Field Feature use.

**Attribute Description:** See fullname description.

**Attribute: ffcf2**

**Fullname:** Unsigned short reserved for future field feature use.

**Attribute Description:** See fullname description.

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# ACCT_PRT

## 1. Description

Account Code (ACCT) feature port parameters

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65531 |
| expected number of tuples | 75 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| density | 16 |
| l1 length of subkey 1 | 2 |
| p1 position of subkey 1 | 16 |
| l2 length of subkey 2 | 16 |
| p2 position of subkey 2 | 0 |
| ks key store | AUTO |
| spare space | 16s |

## 3. Field Layout

```
ACCT_PRT    relid = 739   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP
     lport       DMLPORT      (ushort: 16)     <--- key, not stored
 (a) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key, not stored
     gpid        DMFACID      (ushort)
     cdtblid     DMFACID      (ushort)

         User and Compacted Tuple Layout   ACCT_PRT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |   |                           |
  0 |              lport            | a |***************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |               gpid            |            cdtblid            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |***************************************************************|
    |---------------+---------------+---------------+---------------|
                           ( 12 bytes )

     gpid        DMFACID      (ushort)
     cdtblid     DMFACID      (ushort)

           Stored Tuple Layout     ACCT_PRT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |               gpid            |            cdtblid            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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```
4 |************************************************************|
  |--------------+--------------+--------------+--------------|
                            ( 8 bytes )
```

Account code (ACCT) feature parameters. ACCT feature parameters assigned to a BRCS User (a User is defined to be an analog terminal, a trunk, or an ISDN User). Special entry for group parameter associated with BFG. BRCS feature grouping (BFG), capability G268, is intended to improve recent change (RC) response time and provide for sm memory reduction. it permits the creation of groups of brcs features and parameters, and the utilization of these groups by call processing. BFG group parameter relations will not be created, but will be populated in existing LPORT keyed relations. Identifying bfg group parameters will be accomplished via use of an LPT_TYPE key field set to LPT_BFG and use of the LPORT key field to contain the bfg group ID. this concept is used to avoid creation of new database relations. This relation now has two types of tuples.

(1) The first type is the existing tuples which are SM-PARTITIONED and remain unchanged. They are keyed by lpt_type != LPT_BFG and lport, and no change has been made to this key or data.

(2) The second type is the BFG group partitioned tuple associated with features in a BRCS feature group (BFG), having lpt_type=LPT_BFG, and the bfgid populated in the lport field.

For BFG purposes, RLacct_prt is a group type. Therefore, only BFG lport tuple is permitted for the lport assigned to a BFG. Individual lport tuples may not be created for BFG assigned lports (when the feature is in the BFG).

***NOTE:*** There is a limit of 30 BRCS features for each bfgid."

**Attribute: lport**

**Fullname:** lport type

**Attribute Description:** Logical port of the User being assigned the BRCS features. If lpt_type != LPT_BFG, RLacct_prt.lport must equal RLfc_line.lport (if a line) or RLfc_trunk.lport (if a trunk). The keys for RLfc_line & RLfc_trunk are: RLfc_line.port = RLlpt_pt(RLacct_prt.lport,RLacct_prt.lpt_type).port RLfc_line.party = RLlpt_pt(RLacct_prt.lport,RLacct_prt.lpt_type).party RLfc_trunk.port = RLlpt_pt(RLacct_prt.lport,RLacct_prt.lpt_type).port If lpt_type = LPT_BFG, then RLacct_prt.lport contains a BFG group ID. Dependencies: If lpt_type != LPT_BFG, there must be a tuple in RLfc_porttyp keyed by the RLlpt_pt(lport).port. If lpt_type = LPT_BFG, the must be a tuple in RLbfgmatch keyed by the bfgid contained in RLacct_prt.lport. The only line classes allowed the ACCT feature are:

```
FC_INDVDL       individual
FC_PBX          PBX
FC_ATTENDANT    attendant
FC_4WIRE_INDV   individual 4-wire line
FC_ISDN         ISDN
FC_ISATND       ISDN Attendant
```

The D-channel port is the port specified for the class of service: FC_ISDN and FC_ISATND. The only trunk classes allowed the ACCT feature are:

```
FC_PF           private facility without flash repeating
FC_PFLASH       private facility with flash repeating
```

Only one ACCT Feature can be assigned to a user at any time. Dependency: Verify existence of tuple in RLtrmfeats, RLfc_line or RLfc_trunk, and RLfc_porttype.

```
/* The following dependency is enforced in RLacct_cf.p. */
```

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```
 Gldsnopt = DBYES, then the following must be true:
1) If RLacct_cf.ama_field = DIG8, then
   RLacct_gp.acct_l must be <=7.
2) If RLacct_cf.ama_field = CHAR15, then
   RLacct_gp.acct_l must be <=14.
```

**Attribute: lpt_type**

**Fullname:** logical port

**Attribute Description:** Range: LPT_ISDN (for ISDN Users), LPT_BFG (for BFG tuples), or LPT_OTHER (for analog BRCS lines and trunks) Dependencies: RLacct_prt.lpt_type must be identical to RLfc_line.lpt_type if the User is for an analog or ISDN terminal. The keys for RLfc_line are: RLfc_line.port = RLlpt_pt(RLacct_prt.lport).port RLfc_line.party = RLlpt_pt(RLacct_prt.lport).party If the User is a BRCS trunk, then lpt_type=LPT_OTHER. If lpt_type=LPT_BFG, then there must be a tuple in RLbfgmatch keyed by the bfgid contained in RLacct_prt.lport.

**Attribute: gpid**

**Fullname:** account code group identifier

**Attribute Description:** Verify that RLacct_gp has a tuple where RLacct_gp.gpid = RLacct_prt.gpid. An ACCT user must be assigned to an ACCT group.

**Attribute: cdtblid**

**Fullname:** code association table identifier

**Attribute Description:** If cdtblid > 0, verify that RLacct_rtg has a tuple where RLacct_rtg.cdtblid = RLacct_prt.cdtblid. An ACCT user does not have to be assigned to an ACCT code association table. RLacct_cf.cd_as_alw and cdtblid=0 are independent of each other. An ACCT associated code table can be assigned to a user regardless of whether RLacct_cf.cd_as_alw is = DBYES or DBNO. If RLacct_cf.cd_as_alw = DBNO and an associated code table is assigned to the user, the associated code table will never be accessed.

***NOTE:*** If an ACCT associated code table is assigned to a user and the ACCT feature assigned to that user does not allow code associations, ODA cross checks will produce a warning.

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# ACCT_RTG

## 1. Description

Account code (ACCT) code association table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 2 |
| l1 length of subkey 1 | 6 |
| p1 position of subkey 1 | 10 |
| permutation type | unperm |
| ignore key bits | 0-9 |

## 3. Field Layout

```
ACCT_RTG    relid = 740   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP

     cdtblid     DMFACID      (ushort)     <--- key
     cd_sq1      DMRT_CD_SQ   (struct)
         digcnt      DMDIGCNT     (uchar: 4)
         code        DMDIG10      (array [ 10 ] of char )
     cd_sq2      DMRT_CD_SQ   (struct)
         digcnt      DMDIGCNT     (uchar: 4)
         code        DMDIG10      (array [ 10 ] of char )
     cd_sq3      DMRT_CD_SQ   (struct)
         digcnt      DMDIGCNT     (uchar: 4)
         code        DMDIG10      (array [ 10 ] of char )
     cd_sq4      DMRT_CD_SQ   (struct)
         digcnt      DMDIGCNT     (uchar: 4)
         code        DMDIG10      (array [ 10 ] of char )
     cd_sq5      DMRT_CD_SQ   (struct)
         digcnt      DMDIGCNT     (uchar: 4)
         code        DMDIG10      (array [ 10 ] of char )
     cd_sq6      DMRT_CD_SQ   (struct)
         digcnt      DMDIGCNT     (uchar: 4)
         code        DMDIG10      (array [ 10 ] of char )
     cd_sq7      DMRT_CD_SQ   (struct)
         digcnt      DMDIGCNT     (uchar: 4)
         code        DMDIG10      (array [ 10 ] of char )
     cd_sq8      DMRT_CD_SQ   (struct)
         digcnt      DMDIGCNT     (uchar: 4)
         code        DMDIG10      (array [ 10 ] of char )
     cd_sq9      DMRT_CD_SQ   (struct)
         digcnt      DMDIGCNT     (uchar: 4)
         code        DMDIG10      (array [ 10 ] of char )
     cd_sq10     DMRT_CD_SQ   (struct)
         digcnt      DMDIGCNT     (uchar: 4)
         code        DMDIG10      (array [ 10 ] of char )
```

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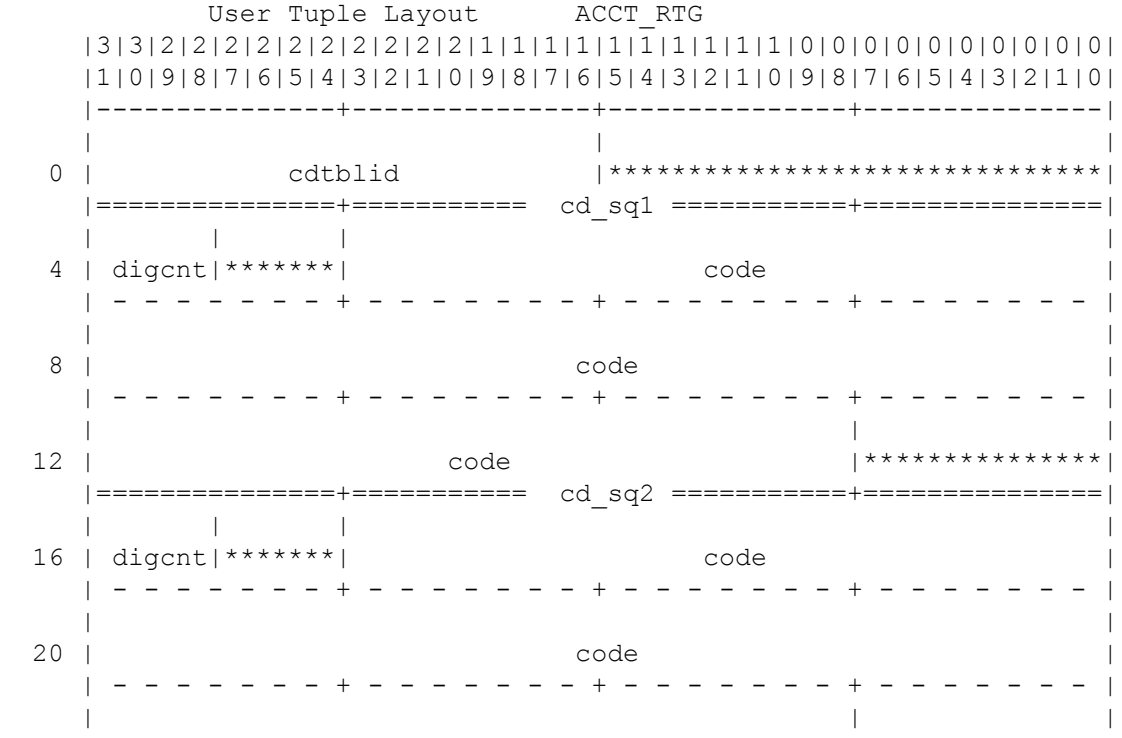
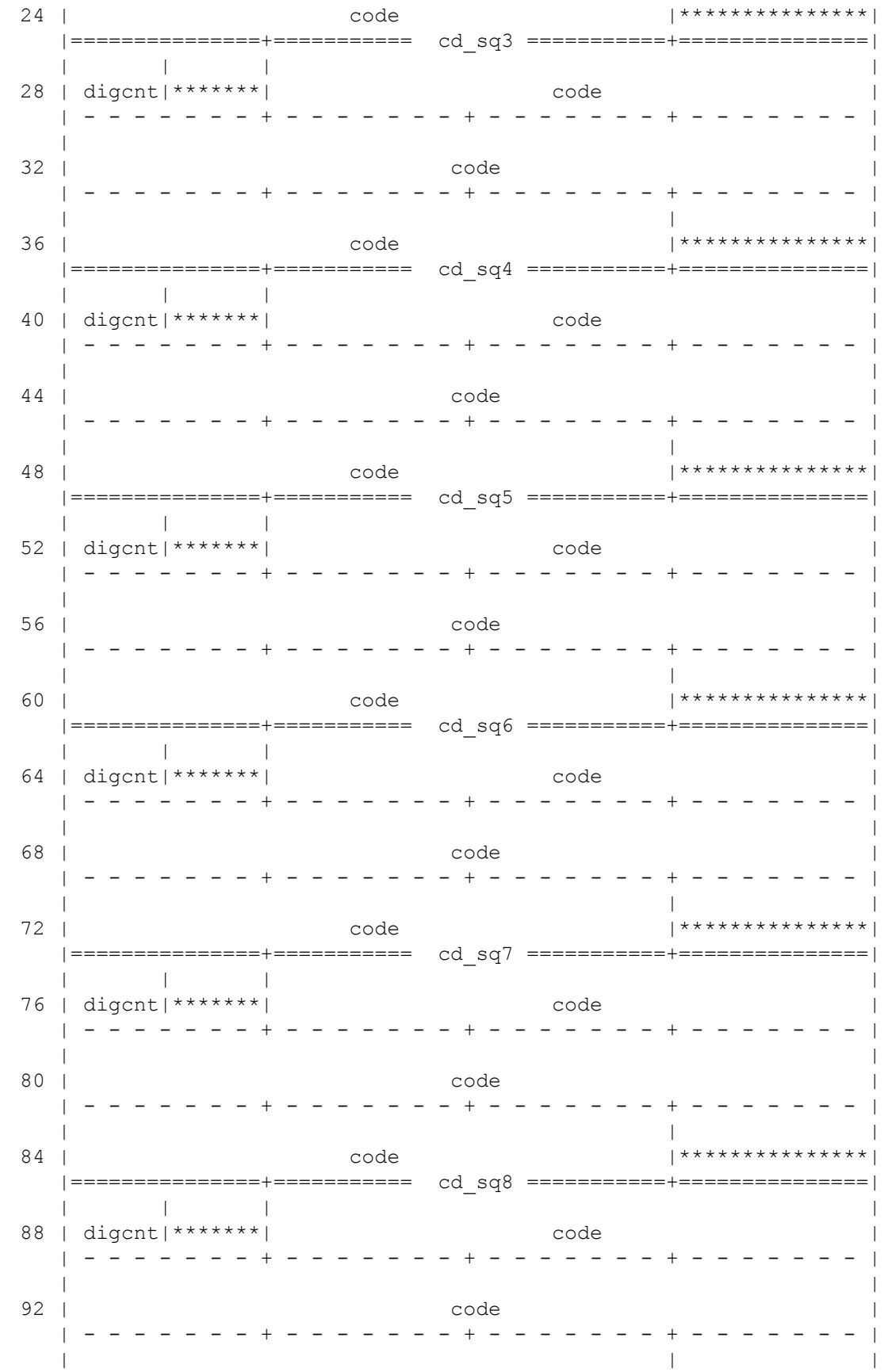
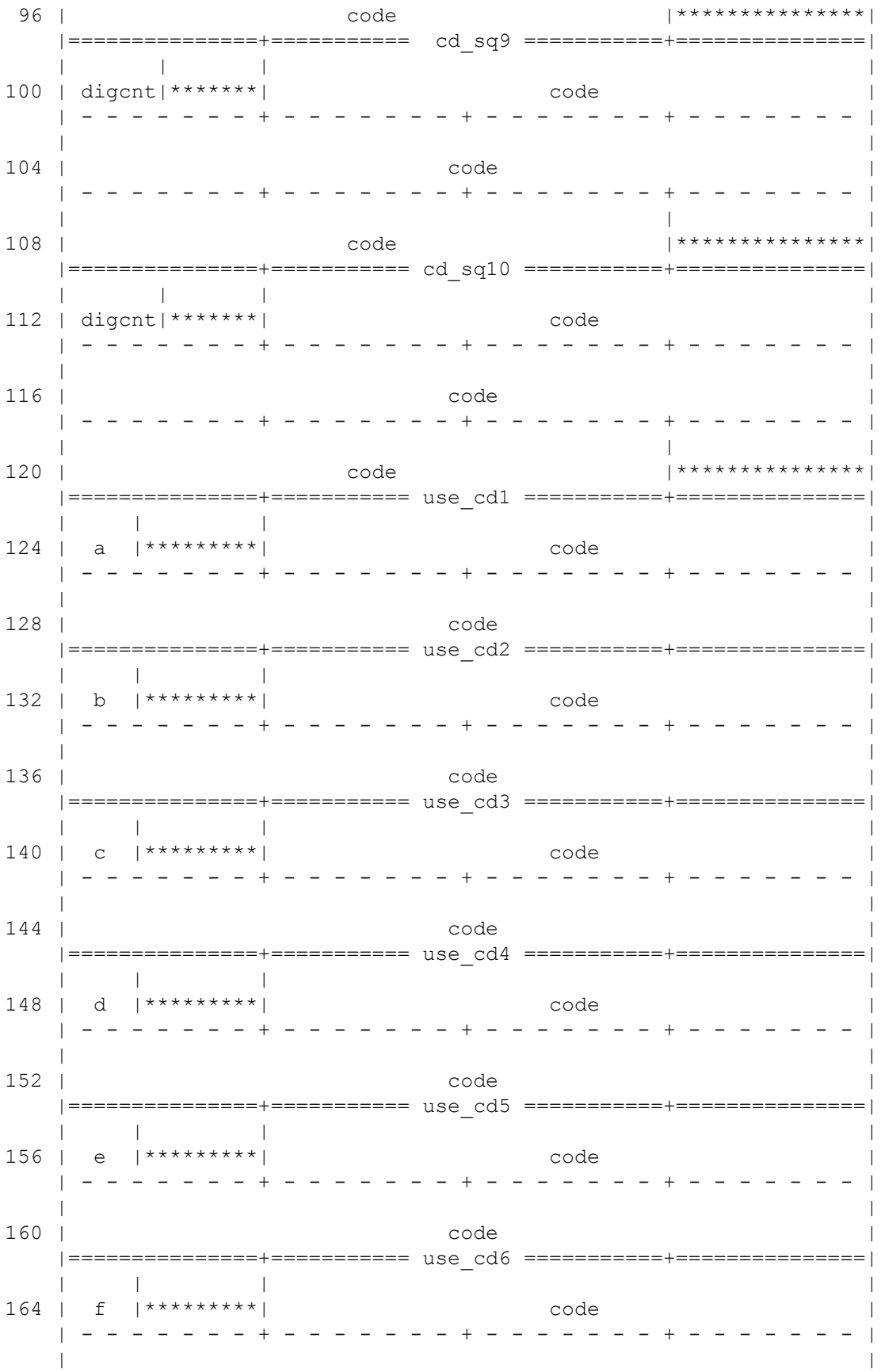
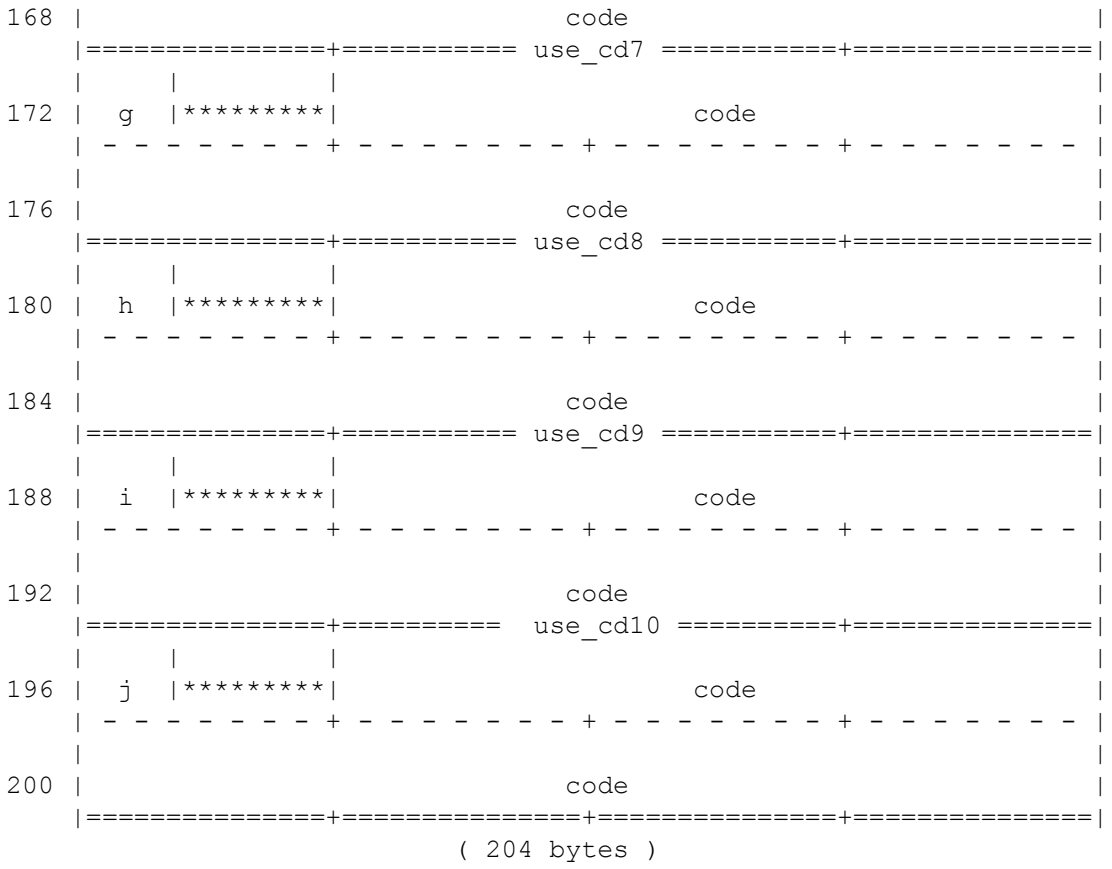
```
    use_cd1     DMUSE_CD     (struct)     <--- compacted
(a)     digcnt      DMDIG7CNT    (uchar: 3)
        code        DMDIG7       (array [ 7 ] of char )
    use_cd2     DMUSE_CD     (struct)     <--- compacted
(b)     digcnt      DMDIG7CNT    (uchar: 3)
        code        DMDIG7       (array [ 7 ] of char )
    use_cd3     DMUSE_CD     (struct)     <--- compacted
(c)     digcnt      DMDIG7CNT    (uchar: 3)
        code        DMDIG7       (array [ 7 ] of char )
    use_cd4     DMUSE_CD     (struct)     <--- compacted
(d)     digcnt      DMDIG7CNT    (uchar: 3)
        code        DMDIG7       (array [ 7 ] of char )
    use_cd5     DMUSE_CD     (struct)     <--- compacted
(e)     digcnt      DMDIG7CNT    (uchar: 3)
        code        DMDIG7       (array [ 7 ] of char )
    use_cd6     DMUSE_CD     (struct)     <--- compacted
(f)     digcnt      DMDIG7CNT    (uchar: 3)
        code        DMDIG7       (array [ 7 ] of char )
    use_cd7     DMUSE_CD     (struct)     <--- compacted
(g)     digcnt      DMDIG7CNT    (uchar: 3)
        code        DMDIG7       (array [ 7 ] of char )
    use_cd8     DMUSE_CD     (struct)     <--- compacted
(h)     digcnt      DMDIG7CNT    (uchar: 3)
        code        DMDIG7       (array [ 7 ] of char )
    use_cd9     DMUSE_CD     (struct)     <--- compacted
(i)     digcnt      DMDIG7CNT    (uchar: 3)
        code        DMDIG7       (array [ 7 ] of char )
    use_cd10    DMUSE_CD     (struct)     <--- compacted
(j)     digcnt      DMDIG7CNT    (uchar: 3)
        code        DMDIG7       (array [ 7 ] of char )
```




code
cd_sq3
digcnt
*******
code
code
code
cd_sq4
digcnt
*******
code
code
code
cd_sq5
digcnt
*******
code
code
code
cd_sq6
digcnt
*******
code
code
code
cd_sq7
digcnt
*******
code
code
code
cd_sq8
digcnt
*******
code
code


code
cd_sq9
digcnt
code
code
code
cd_sq10
digcnt
code
code
code
use_cd1
a
code
code
use_cd2
b
code
code
use_cd3
c
code
code
use_cd4
d
code
code
use_cd5
e
code
code
use_cd6
f
code




```
cdtblid     DMFACID      (ushort)     <--- key
cd_sq1      DMRT_CD_SQ   (struct)
    digcnt      DMDIGCNT     (uchar: 4)
    code        DMDIG10      (array [ 10 ] of char )
cd_sq2      DMRT_CD_SQ   (struct)
    digcnt      DMDIGCNT     (uchar: 4)
    code        DMDIG10      (array [ 10 ] of char )
cd_sq3      DMRT_CD_SQ   (struct)
    digcnt      DMDIGCNT     (uchar: 4)
    code        DMDIG10      (array [ 10 ] of char )
cd_sq4      DMRT_CD_SQ   (struct)
    digcnt      DMDIGCNT     (uchar: 4)
    code        DMDIG10      (array [ 10 ] of char )
cd_sq5      DMRT_CD_SQ   (struct)
    digcnt      DMDIGCNT     (uchar: 4)
    code        DMDIG10      (array [ 10 ] of char )
cd_sq6      DMRT_CD_SQ   (struct)
    digcnt      DMDIGCNT     (uchar: 4)
    code        DMDIG10      (array [ 10 ] of char )
cd_sq7      DMRT_CD_SQ   (struct)
    digcnt      DMDIGCNT     (uchar: 4)
    code        DMDIG10      (array [ 10 ] of char )
cd_sq8      DMRT_CD_SQ   (struct)
    digcnt      DMDIGCNT     (uchar: 4)
    code        DMDIG10      (array [ 10 ] of char )
cd_sq9      DMRT_CD_SQ   (struct)
```

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```
        digcnt      DMDIGCNT     (uchar: 4)
        code        DMDIG10      (array [ 10 ] of char )
    cd_sq10     DMRT_CD_SQ   (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        code        DMDIG10      (array [ 10 ] of char )
    use_cd1     DMCDN7       (struct)     <--- compacted
(a)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    use_cd2     DMCDN7       (struct)     <--- compacted
(b)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    use_cd3     DMCDN7       (struct)     <--- compacted
(c)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    use_cd4     DMCDN7       (struct)     <--- compacted
(d)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    use_cd5     DMCDN7       (struct)     <--- compacted
(e)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    use_cd6     DMCDN7       (struct)     <--- compacted
(f)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
```

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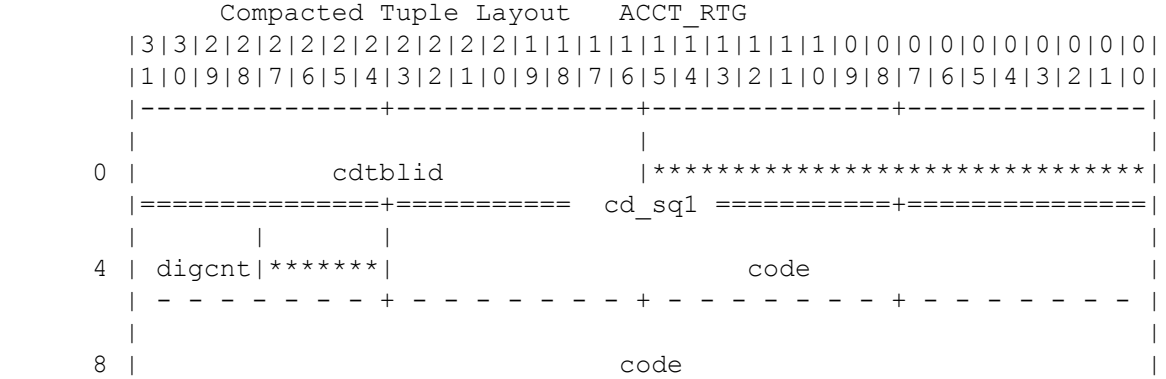
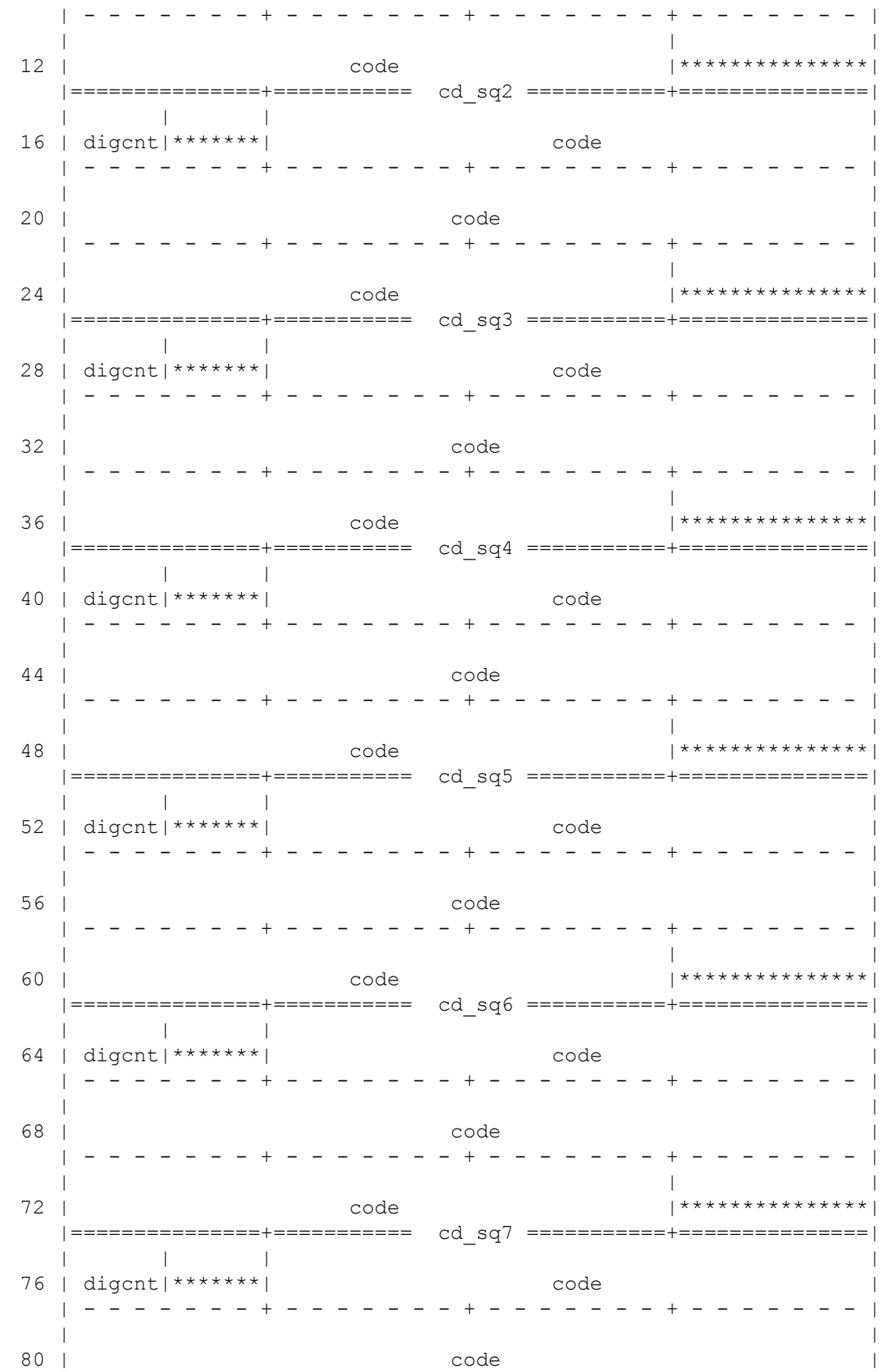
```
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    use_cd7     DMCDN7       (struct)     <--- compacted
(g)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    use_cd8     DMCDN7       (struct)     <--- compacted
(h)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    use_cd9     DMCDN7       (struct)     <--- compacted
(i)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    use_cd10    DMCDN7       (struct)     <--- compacted
(j)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
```

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cd_sq4
digcnt
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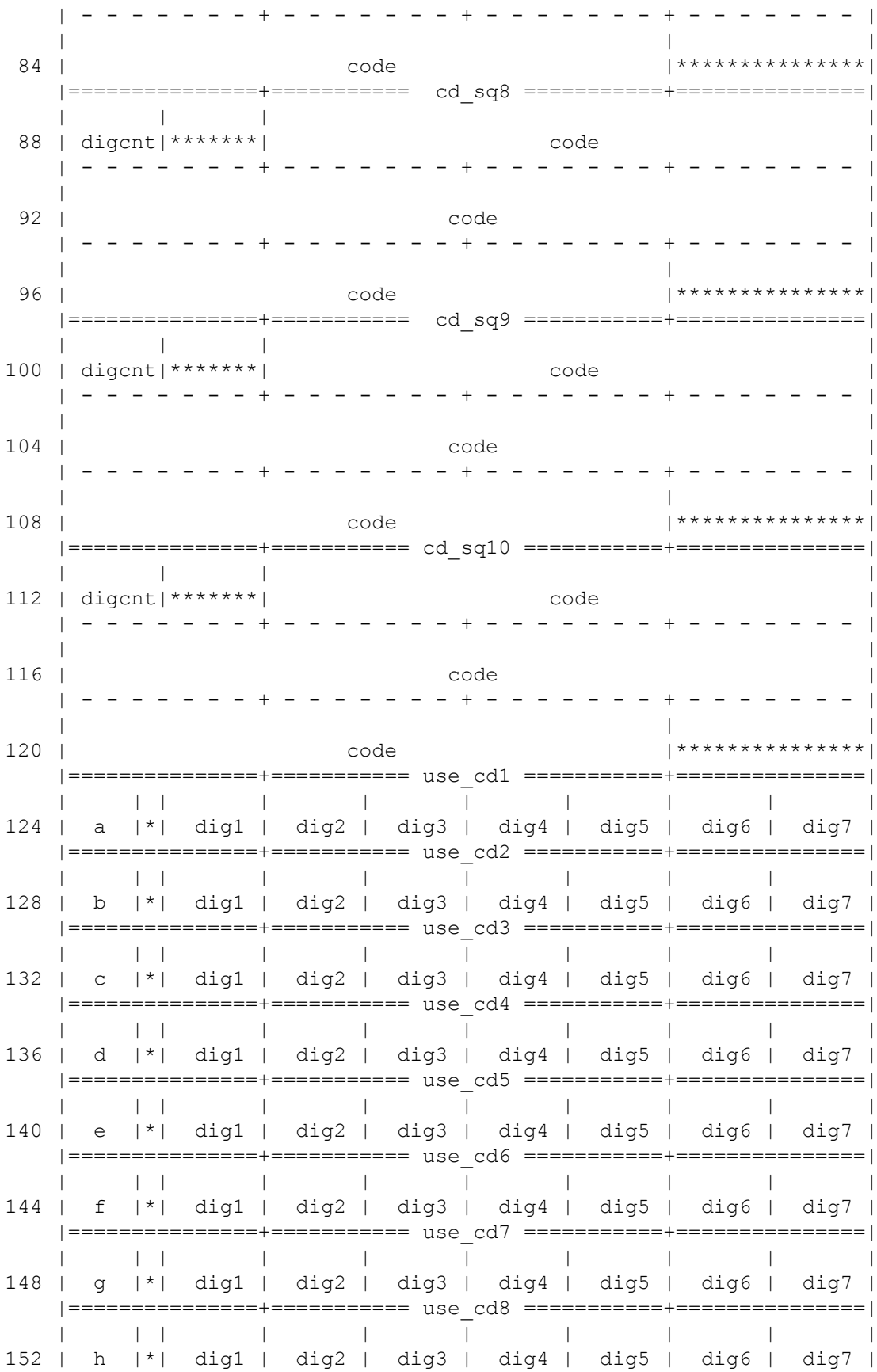
digcnt
code
code

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```
    |===============+========== use_cd9 ==========+===============|
    |     | |       |       |       |       |       |       |       |
156 |  i  |*|  dig1 |  dig2 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |
    |===============+==========  use_cd10 ==========+===============|
    |     | |       |       |       |       |       |       |       |
160 |  j  |*|  dig1 |  dig2 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |
    |===============+===============+===============+===============|
    |                                                                |
164 |****************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                                |
168 |****************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                                |
172 |****************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                                |
176 |****************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                                |
180 |****************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                                |
184 |****************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                                |
188 |****************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                                |
192 |****************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                                |
196 |****************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                                |
200 |****************************************************************|
    |---------------+---------------+---------------+---------------|
      ( 204 bytes )

    cdtblid     DMFACID      (ushort)     <--- key
    cd_sq1      DMRT_CD_SQ   (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        code        DMDIG10      (array [ 10 ] of char )
    cd_sq2      DMRT_CD_SQ   (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        code        DMDIG10      (array [ 10 ] of char )
    cd_sq3      DMRT_CD_SQ   (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        code        DMDIG10      (array [ 10 ] of char )
    cd_sq4      DMRT_CD_SQ   (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        code        DMDIG10      (array [ 10 ] of char )
    cd_sq5      DMRT_CD_SQ   (struct)
        digcnt      DMDIGCNT     (uchar: 4)
```

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```
        code        DMDIG10      (array [ 10 ] of char )
    cd_sq6      DMRT_CD_SQ   (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        code        DMDIG10      (array [ 10 ] of char )
    cd_sq7      DMRT_CD_SQ   (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        code        DMDIG10      (array [ 10 ] of char )
    cd_sq8      DMRT_CD_SQ   (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        code        DMDIG10      (array [ 10 ] of char )
    cd_sq9      DMRT_CD_SQ   (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        code        DMDIG10      (array [ 10 ] of char )
    cd_sq10     DMRT_CD_SQ   (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        code        DMDIG10      (array [ 10 ] of char )
    use_cd1     DMCDN7       (struct)     <--- compacted
(a)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    use_cd2     DMCDN7       (struct)     <--- compacted
(b)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    use_cd3     DMCDN7       (struct)     <--- compacted
(c)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    use_cd4     DMCDN7       (struct)     <--- compacted
(d)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    use_cd5     DMCDN7       (struct)     <--- compacted
(e)     dig7cnt     DMDIG7CNT    (uchar: 3)
```

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```
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    use_cd6     DMCDN7       (struct)     <--- compacted
(f)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    use_cd7     DMCDN7       (struct)     <--- compacted
(g)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    use_cd8     DMCDN7       (struct)     <--- compacted
(h)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    use_cd9     DMCDN7       (struct)     <--- compacted
(i)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    use_cd10    DMCDN7       (struct)     <--- compacted
(j)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)

          Stored Tuple Layout     ACCT_RTG
```

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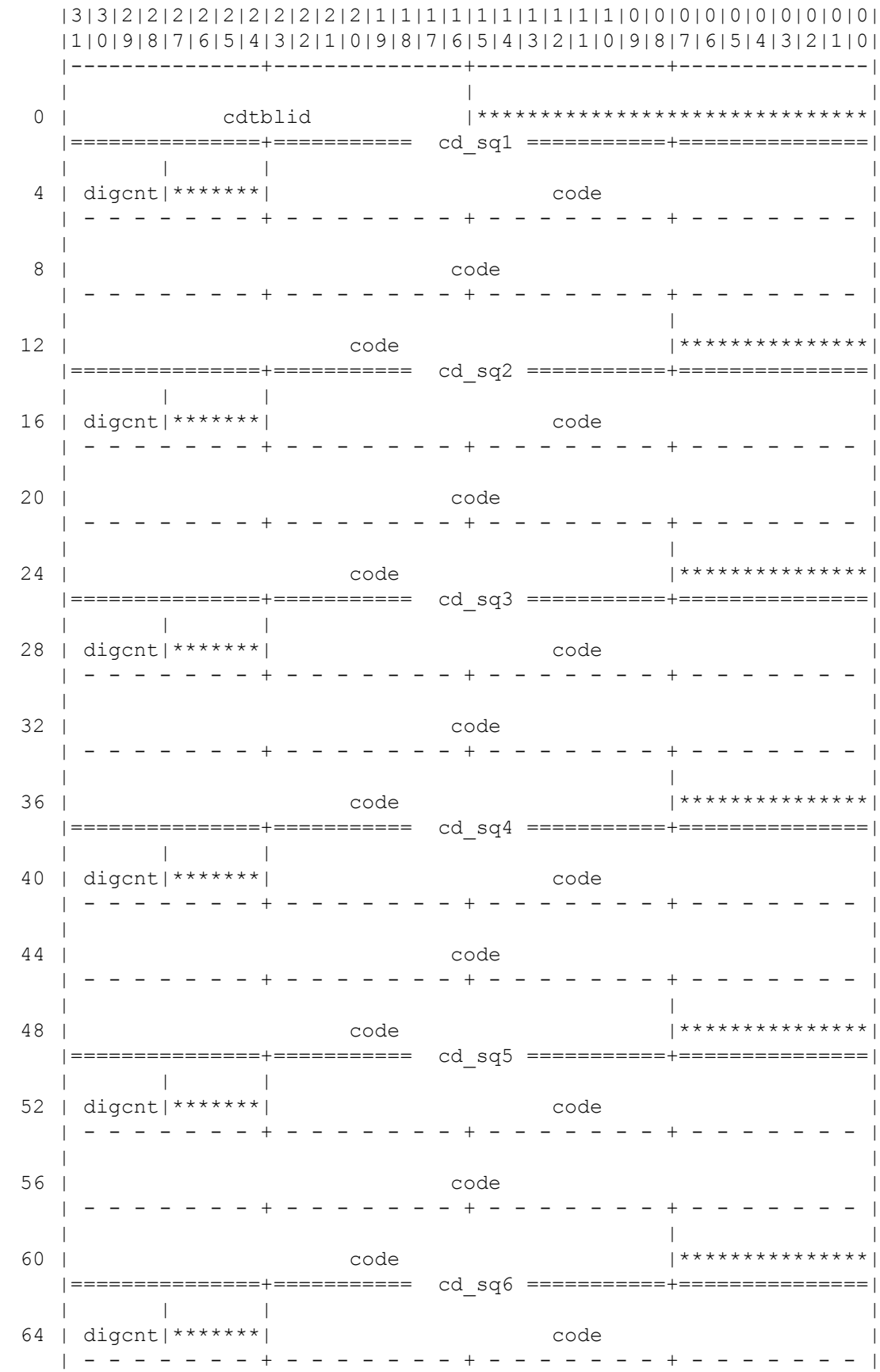
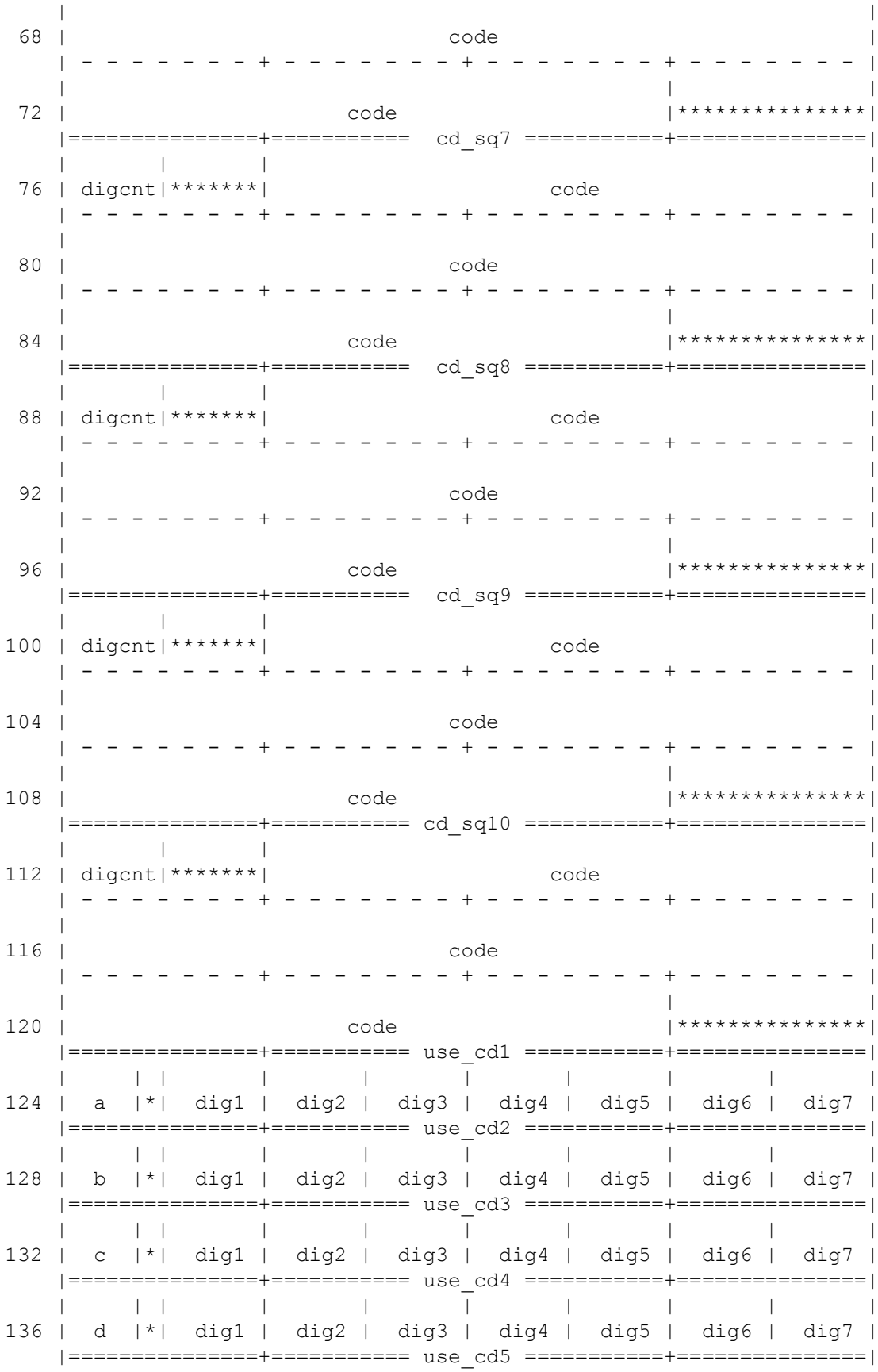

3 3 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
1 0 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0
cdtblid
cd_sq1
cd_sq2
cd_sq3
cd_sq4
cd_sq5
cd_sq6
digcnt
code
0
4
8
12
16
20
24
28
32
36
40
44
48
52
56
60
64

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```
    |      | |       |       |       |       |       |       |       |
140 |   e  |*|  dig1 |  dig2 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |
    |==============+========== use_cd6 ==========+===============|
    |      | |       |       |       |       |       |       |       |
144 |   f  |*|  dig1 |  dig2 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |
    |==============+========== use_cd7 ==========+===============|
    |      | |       |       |       |       |       |       |       |
148 |   g  |*|  dig1 |  dig2 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |
    |==============+========== use_cd8 ==========+===============|
    |      | |       |       |       |       |       |       |       |
152 |   h  |*|  dig1 |  dig2 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |
    |==============+========== use_cd9 ==========+===============|
    |      | |       |       |       |       |       |       |       |
156 |   i  |*|  dig1 |  dig2 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |
    |==============+==========  use_cd10 =========+===============|
    |      | |       |       |       |       |       |       |       |
160 |   j  |*|  dig1 |  dig2 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |
    |==============+===============+===============+===============|
       ( 164 bytes )

RLacct_rtg.G
domain alACCT_R   struct  (3 sub-attributes)
         cdtblid     unsigned short (ushort)
         cd_sq       .12.fake     (array [ 10 ] of .3fake )
             digcnt      .10.fake     (uchar: 4)
             code        .11.fake     (array [ 10 ] of char )
         use_cd      .13.fake     (array [ 10 ] of .1fake )
 (a)         digcnt      .8.fake      (uchar: 3)
             code        .9.fake      (array [ 7 ] of char )

         Structure Layout      alACCT_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            cdtblid            |*******************************|
    |===============+==========  cd_sq[0] ==========+===============|
    |       |       |                                               |
  4 | digcnt|*******|                     code                      |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             code                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                     code                      |***************|
    |===============+==========  cd_sq[1] ==========+===============|
    |       |       |                                               |
 16 | digcnt|*******|                     code                      |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                             code                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 24 |                     code                      |***************|
```

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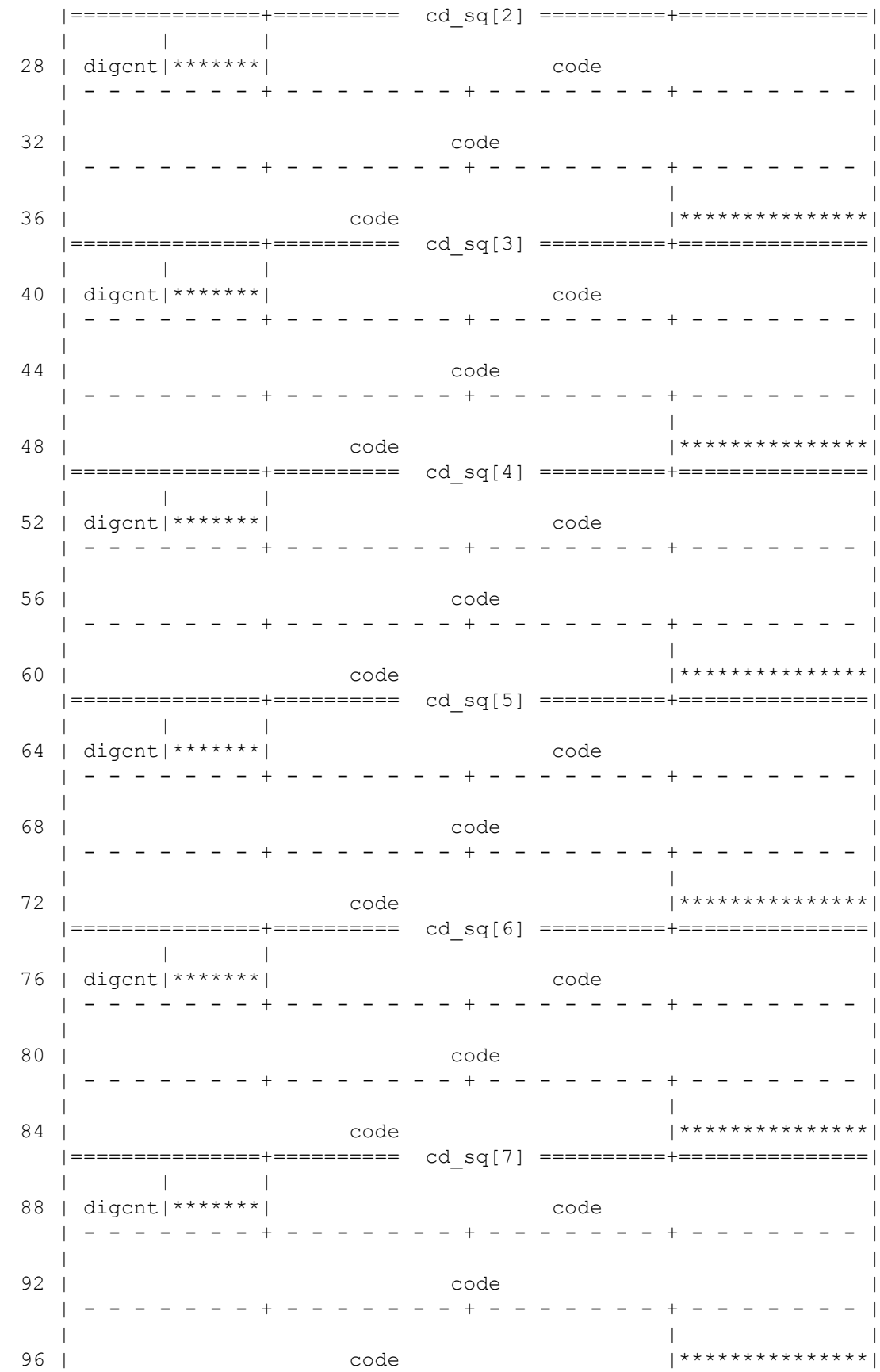
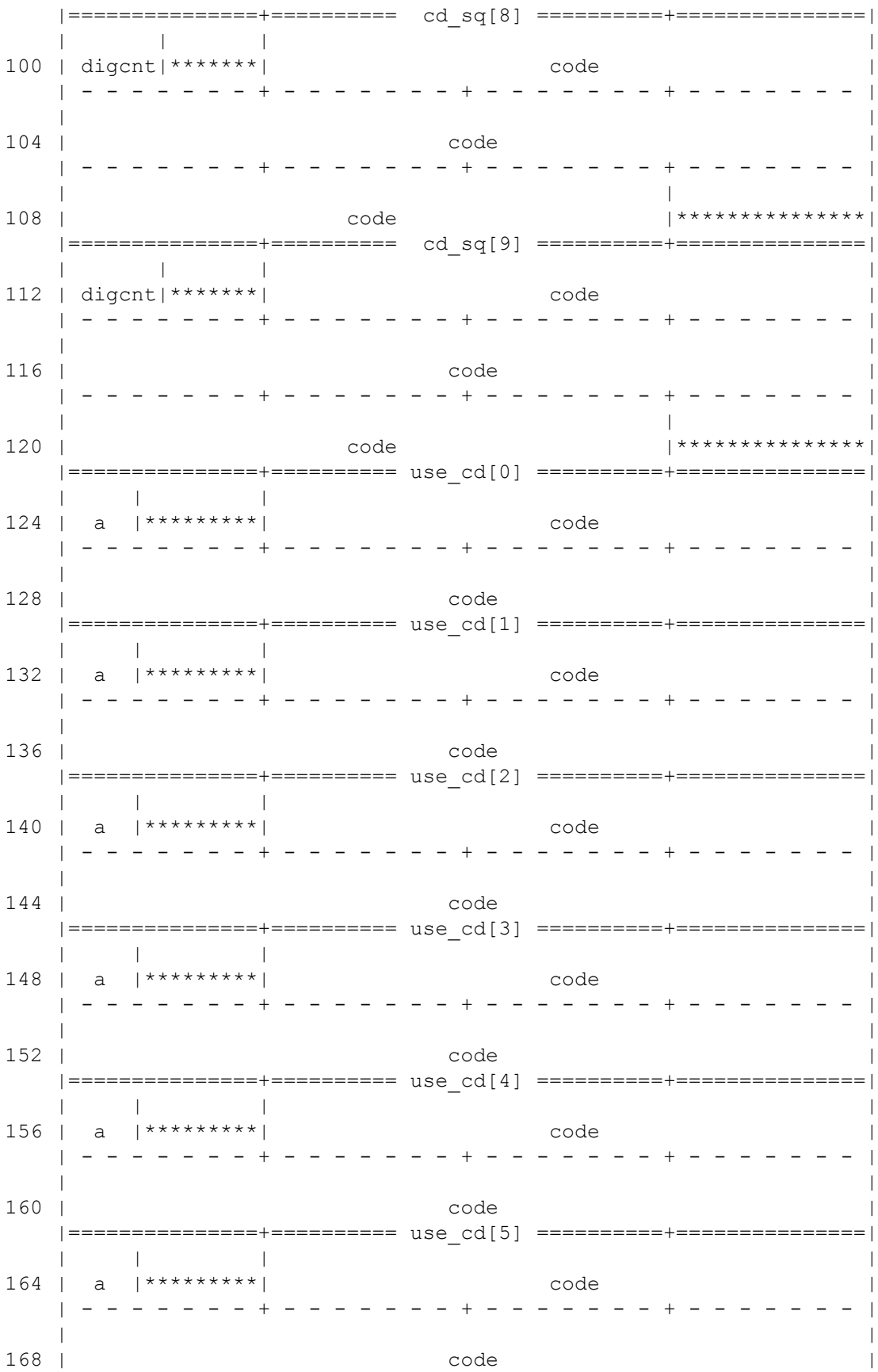
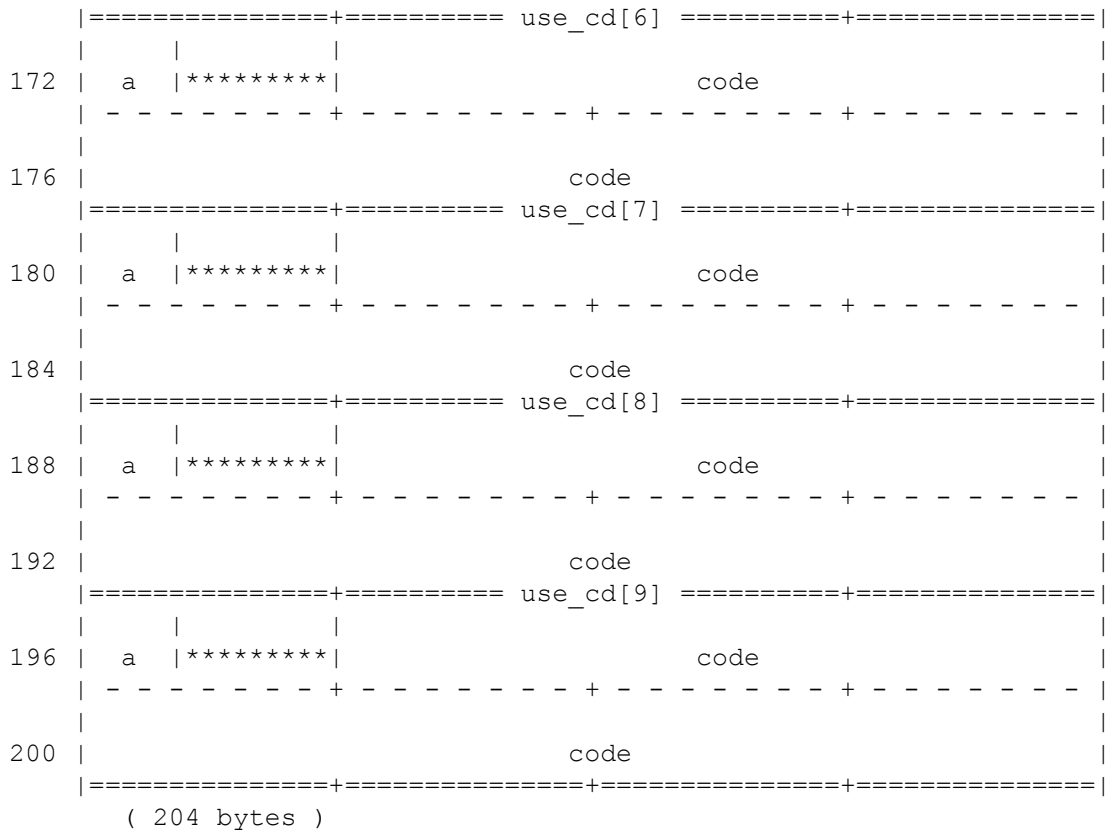

cd_sq[2]
cd_sq[3]
cd_sq[4]
cd_sq[5]
cd_sq[6]
cd_sq[7]
digcnt
*******
code
28
32
36
40
44
48
52
56
60
64
68
72
76
80
84
88
92
96


cd_sq[8]
digcnt
code
cd_sq[9]
digcnt
code
use_cd[0]
a
code
use_cd[1]
a
code
use_cd[2]
a
code
use_cd[3]
a
code
use_cd[4]
a
code
use_cd[5]
a
code




## 4. Population Rules for RLacct_rtg

**Relation Description**

Account code (ACCT) code association table

**Attribute: cdtblid**

**Fullname:** Code association table identification

**Attribute Description:** Code association table identification.

**Attribute: use_cd[*]**

**Fullname:** ACCT use codes

**Attribute Description:** List of 10 ACCT use codes with associated dialing sequence For use_cd1 through use_cd10, the associated dialing sequence is cd_sq1 through cd_sq10 respectively. Range: 0 to 7 characters, if fewer than 7 characters, pad on the right with NULL. The use code must be a code with action = ACN_ACCTUSE. If use_cd1 is not NULL, then cd_sq1 must not be NULL; likewise for the 9 remaining entries. All use codes in this tuple must be unique and defined in an ODP and/or the IDP used by the port(s) that uses this tuple.

**Attribute: use_cd[*].digcnt**

**Fullname:** Digit count

**Attribute Description:** The number of digits in use_cd.code.

**Attribute: use_cd[*].code**

**Fullname:** Code

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**Attribute Description:** The ACCT use code.

**Attribute: cd_sq1**

**Fullname:** Code sequence

**Attribute Description:** List of 10 dialing sequences, each associated with an ACCT use code. The sequence of digits must be a complete dialable sequence of no more than 10 characters. The sequence can be a DN, Feature Group D Carrier Access Code, feature code, routing information, etc. Multiple sequences can be stored within the 10 characters, if the sequences are complete. An ARS use code followed by a 7-digit DN is allowed, but an ARS use code followed by only 3 digits of a 7-digit DN is not allowed. Range: 0 to 10 characters, if fewer than 10 characters, pad on the right with NULL. The associated code(s) must be defined in an ODP and/or IDP and/or PNDP used by the port(s) that uses this tuple. If cd_sq1 is not NULL, then use_cd1 must not be NULL; likewise for the 9 remaining entries.

**Attribute: cd_sq1.digcnt**

**Fullname:** Digit count

**Attribute Description:** The number of digits in cd_sq.code.

**Attribute: cd_sq1.code**

**Fullname:** Code sequence

**Attribute Description:** Dialing sequence associated with use_cd.

**Attribute: cd_sq[*]**

**Fullname:** Code sequence

**Attribute Description:** List of 10 dialing sequences, each associated with an ACCT use code. The sequence of digits must be a complete dialable sequence of no more than 10 characters. The sequence can be a DN, a Feature Group D Carrier Access Code, feature code, routing information, etc. Multiple sequences can be stored within the 10 characters, if the sequences are complete. An ARS use code followed by a 7-digit DN is allowed, but an ARS use code followed by only 3 digits of a 7-digit DN is not allowed. Range: 0 to 10 characters, if fewer than 10 characters, pad on the right with NULL. The associated code(s) must be defined in an ODP and/or IDP and/or PNDP used by the port(s) that uses this tuple. If cd_sq1 is not NULL, then use_cd1 must not be NULL; likewise for the 9 remaining entries.

**Attribute: cd_sq[*].digcnt**

**Fullname:** Digit count

**Attribute Description:** The number of digits in cd_sq.

**Attribute: cd_sq[*].code**

**Fullname:** Code sequence

**Attribute Description:** Dialing sequence associated with use_cd.

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# ACCT_TM

## 1. Description

Account code (ACCT) constructed feature template, options and default parameters on feature definition recent change/verify (RC/V) view.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 40 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |
| l1 length of subkey 1 | 10 |
| p1 position of subkey 1 | 6 |
| permutation type | un_perm |
| ignore key bits | 0-5 |

## 3. Field Layout

```
ACCT_TM     relid = 741   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP

     feat_id     DMMCC_FID    (ushort)     <--- key
 (a) ama_field   DMACCT_FLD   (enum: 2)
     actvn       DMMC_ACTYP   (enum: 3)
 (b) dctvn       DMMC_DCTYP   (enum: 2)
 (c) cd_as_alw   DMBOOL       (enum: 1)
 (d) parm_actvn  DMMC_ACTYP   (enum: 3)
     gpname      DMFACNAME    (array [ 8 ] of char )
     cdtblname   DMFACNAME    (array [ 8 ] of char )
     amac        DMMC_BILL    (struct)
 (e)     flat        DMBOOL       (enum: 1)
 (f)     usefreq1    DMBOOL       (enum: 1)
 (g)     usefreq2    DMBOOL       (enum: 1)
 (h)     usefreq3    DMBOOL       (enum: 1)
 (i)     usefreq4    DMBOOL       (enum: 1)
 (j)     actchrg     DMBOOL       (enum: 1)
 (k)     dactchrg    DMBOOL       (enum: 1)
 (l)     duration    DMBOOL       (enum: 1)
 (m)     change      DMBOOL       (enum: 1)

         User, Compacted and Stored Tuple Layout    ACCT_TM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |   |     |   | |     |         |
  0 |            feat_id            | a |actvn| b |c|  d  |*********|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             gpname                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
```

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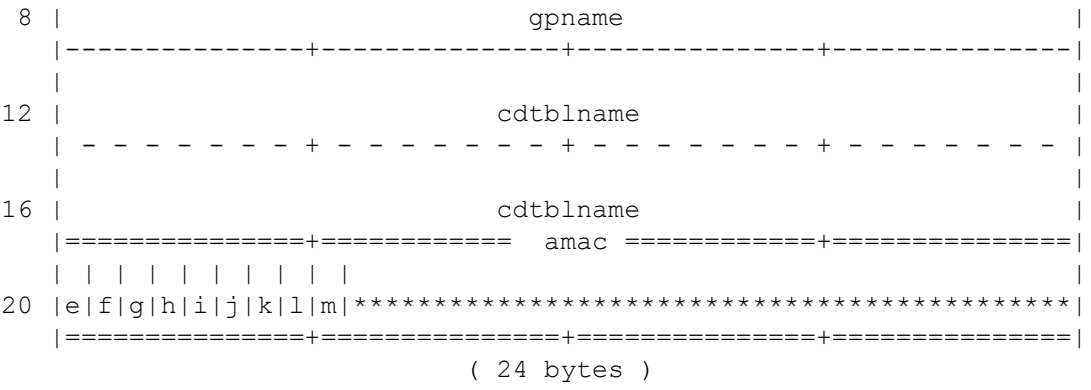


## 4. Population Rules for RLacct_tm

**Relation Description**

Account Code Template

Account code constructed feature template: options and default parameters on feature definition recent change/verify (RC/V) view.

**Attribute: feat_id**

**Fullname:** Constructed feature identification

**Attribute Description:** This attribute contains the constructed feature identifier.

**Attribute: ama_field**

**Fullname:** AMA field length indicator

**Attribute Description:** This attribute indicates whether the feature produces an AMA record with an 8-digit ACCT field or a 15-character account code field.

**Attribute: actvn**

**Fullname:** Activation method

**Attribute Description:** This attribute indicates the method of activating a constructed feature. This is permanent activation: one call activation is not provided.

**Attribute: dctvn**

**Fullname:** De-activation method

**Attribute Description:** This attribute indicates the method of deactivating a constructed feature. This is permanent deactivation: one call deactivation is not provided.

**Attribute: cd_as_alw**

**Fullname:** Code Association Allowed

**Attribute Description:** This attribute indicates whether preset code associations are allowed. This sequence can be any complete dialable sequence of digits up to 10 digits: a DN, a Feature Group D Carrier Access Code, feature code, routing information, etc.

**Attribute: parm_actvn**

**Fullname:** Parameter Activation

**Attribute Description:** This attribute indicates the method of activating an ACCT parameter set.

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The activation of the parameter set is permanent: one call activation of either parameter is not provided.

**Attribute: gpname**

**Fullname:** Group Name

**Attribute Description:** This attribute contains the account code group name. If this attribute is not NULL, a check must be made when the feature is assigned to a line such that:

RLacct_gp has a tuple where RLacct_gp.gpid = RLacct_prt.gpid for the lport and lport_type receiving this feature.

**Attribute: cdtblname**

**Fullname:** Code Association Table Name

**Attribute Description:** This attribute contains the code association table name. If this attribute is not NULL, a check must be made when the feature is assigned to a line such that:

RLacct_rtg has a tuple where RLacct_rtg.cdtblid = RLacct_prt.cdtblid for the lport and lport_type receiving this feature.

**Attribute: amac**

**Fullname:** AMA Charging

**Attribute Description:** This attribute is a boolean structure indicating the combination of AMA charging. In each case a DBYES indicates the type of billing is applicable and DBNO indicates it is not.

**Attribute: amac.flat**

**Fullname:** flat rate

**Attribute Description:** This sub-attribute indicates whether or not billing is done on a flat rate: that is, a flat rate means that there are not usage sensitive charges.

**Attribute: amac.usefreq[*]**

**Fullname:** usage frequency charge for use of event 1

**Attribute Description:** This sub-attribute indicates whether or not billing is to include usage frequency charges for use of event 1.

**Attribute: amac.actchrg**

**Fullname:** usage frequency charge for use of event 1

**Attribute Description:** This sub-attribute indicates whether or not billing is to include usage frequency charges for use of event 1.

**Attribute: amac.dactchrg**

**Fullname:** usage frequency charge for use of event 1

**Attribute Description:** This sub-attribute indicates whether or not billing is to include usage frequency charges for use of event 1.

**Attribute: amac.duration**

**Fullname:** usage frequency charge for use of event 1

**Attribute Description:** This sub-attribute indicates whether or not billing is to include usage

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frequency charges for use of event 1.

**Attribute: amac.change**

**Fullname:** usage frequency charge for use of event 1

**Attribute Description:** This sub-attribute indicates whether or not billing is to include usage frequency charges for use of event 1.

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# ACCTCODE

## 1. Description

Account code table. Holds account codes allowed for an ANI for 1+ subaccount billing.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 25000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
ACCTCODE    relid = 2017  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL

     anitbl      DMANITBL     (ushort: 15)     <--- key
 (a) spare1      DMBOOL       (enum: 1)
     locdigs     DMLINENO     (ushort: 14)     <--- key
 (b) spare2      DMUNS2       (ushort: 2)
     tupnum      DMUNS4       (ushort: 4)     <--- key
     spare3      DMUNS12      (ushort: 12)
     spare4      DMUSHORT     (ushort)
     acct_cd0    DMBCD8       (ulong)
     acct_cd1    DMBCD8       (ulong)
     acct_cd2    DMBCD8       (ulong)
     acct_cd3    DMBCD8       (ulong)
     acct_cd4    DMBCD8       (ulong)

         User, Compacted and Stored Tuple Layout   ACCTCODE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               | |                             |   |
  0 |             anitbl            |a|           locdigs           | b |
    |---------------+---------------+---------------+---------------|
    |       |                       |                               |
  4 | tupnum|         spare3        |              spare4           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                            acct_cd0                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                            acct_cd1                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                            acct_cd2                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                            acct_cd3                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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```
 24 |                            acct_cd4                           |
    |---------------+---------------+---------------+---------------|
                               ( 28 bytes )

RLacctcode.G
domain alACCTCO   struct  (8 sub-attributes)
         anitbl      .5.fake      (ushort: 15)
 (a)     spare1      .0fake       (enum)
         locdigs     .6.fake      (ushort: 14)
 (b)     spare2      .7.fake      (ushort: 2)
         tupnum      .8.fake      (ushort: 4)
         spare3      .9.fake      (ushort: 12)
         spare4      unsigned short (ushort)
         acct_cd     .10.fake     (array [ 5 ] of unsigned long )

         Structure Layout      alACCTCO
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               | |                           |   |
  0 |            anitbl             |a|          locdigs          | b |
    |---------------+---------------+---------------+---------------|
    |       |                       |                               |
  4 | tupnum|         spare3        |             spare4            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                            acct_cd                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                            acct_cd                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                            acct_cd                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                            acct_cd                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 24 |                            acct_cd                            |
    |---------------+---------------+---------------+---------------|
                               ( 28 bytes )
```

## 4. Population Rules for RLacctcode

### Relation Description

Account code table. This relation holds account codes per ANI for 1+ subaccount billing. The feature is not committed, so this is spare data created just in case.

**Attribute: anitbl**

**Fullname:** automatic number identification table index

**Attribute Description:** Obtained from the RLanimod relation.

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**Attribute: spare1**

**Fullname:** spare 1

**Attribute Description:** Spare field.

**Attribute: locdigs**

**Fullname:** local line number of ANI

**Attribute Description:** The local line number; the last four digits of the ANI.

**Attribute: spare2**

**Fullname:** spare 2

**Attribute Description:** Spare field.

**Attribute: tupnum**

**Fullname:** tuple number

**Attribute Description:** Provides a unique key to allow multiple tuples per ANI.

**Attribute: spare3**

**Fullname:** spare 3

**Attribute Description:** Spare field.

**Attribute: spare4**

**Fullname:** spare 4

**Attribute Description:** Spare field.

**Attribute: acct_cd0**

**Fullname:** account code 0

**Attribute Description:** One of up to five account codes allowed for this ANI; one to eight digits are stored in BCD in this field.

**Attribute: acct_cd1**

**Fullname:** account code 1

**Attribute Description:** One of up to five account codes allowed for this ANI; one to eight digits are stored in BCD in this field.

**Attribute: acct_cd2**

**Fullname:** account code 2

**Attribute Description:** One of up to five account codes allowed for this ANI; one to eight digits are stored in BCD in this field.

**Attribute: acct_cd3**

**Fullname:** account code 3

**Attribute Description:** One of up to five account codes allowed for this ANI; one to eight digits are stored in BCD in this field.

**Attribute: acct_cd4**

**Fullname:** account code 4

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**Attribute Description:** One of up to five account codes allowed for this ANI; one to eight digits are stored in BCD in this field.

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# ACCTOWN

## 1. Description

This relation contains the Originating Line Number Screening Account Owner Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10000 |
| expected number of tuples | 1000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
ACCTOWN     relid = 2815  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL


     acctown     DMCHAR4      (array [ 4 ] of char )    <--- key
     phraseid    DMPHRASE     (ushort)
     scrindex    DMSCRNIDX    (ushort: 12)
     disptext    DMTEXT12     (array [ 12 ] of char )

         User, Compacted and Stored Tuple Layout    ACCTOWN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                            acctown                            |
    |---------------+---------------+---------------+---------------|
    |                               |                       |       |
  4 |             phraseid          |        scrindex       |*******|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                            disptext                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                            disptext                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                            disptext                           |
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population rules for RLacctown

### Relation Description

Relation containing information for Originating Line Number Screening Account Owner Table.

**Attribute:**

acctown

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**Fullname:**
account owner
**Attribute Description:**
Specify four alphanumeric characters or "----" for default.

**Attribute:**
phraseid
**Fullname:**
phrase identification
**Attribute Description:**
Branding announcement unique to the account owner.

**Attribute:**
disptext
**Fullname:**
display text
**Attribute Description:**
Up to 12 alphnumeric characters to be displayed at the position to identify the account owner to the operator

**Attribute:**
scrindex
**Fullname:**
screen index
**Attribute Description:**
An screen index is used to route calls from the operator system defined by account owner.

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# ACD_DN

## 1. Description

This relation contains Automatic Call Distributor (ACD) DN information for ACD DNs that are not being interflowed. For information on ACD DNs that are being interflowed, see RLDAA_DN.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2048 |
| expected number of tuples | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
ACD_DN      relid = 1902  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL


    carrier     DMBCARID     (ushort: 14)
(a) vec_asgnd   DMBOOL       (enum: 1)
(b) cnbrdisp    DMBOOL       (enum: 1)
    pic2        DMBCARID     (ushort: 14)
(c) cnbrmis     DMBOOL       (enum: 1)
(d) freeterm    DMBOOL       (enum: 1)
    plc         DMBCARID     (ushort: 14)
(e) line_screen  DMBOOL       (enum: 1)
(f) psap        DMBOOL       (enum: 1)
    miscallcls  DMCLLCLS     (ushort: 12)
    acdsp3      DMUNS4       (ushort: 4)
    screen_x    DMSCRNIDX    (ushort: 12)
    acdsp2      DMUNS4       (ushort: 4)
    vec_num     DMCVNUM      (ushort: 11)
(g) unbundled   DMBOOL       (enum: 1)
(h) acdsp4      DMBOOL       (enum: 1)
(i) acdsp5      DMBOOL       (enum: 1)
(j) acdsp6      DMBOOL       (enum: 1)
(k) acdsp7      DMBOOL       (enum: 1)
    dispx       DMDSPIDX     (ushort: 11)
(l) acdsp8      DMBOOL       (enum: 1)
(m) acdsp9      DMBOOL       (enum: 1)
(n) acdsp10     DMBOOL       (enum: 1)
    call_que    DMCQNUM      (ushort: 10)
    acdsp1      DMUNS6       (ushort: 6)
    digtree     DMDA_TREE    (ushort: 7)
    dn          DMLOCDN      (struct)  <--- key, compacted
        noc         DMNOC        (ushort: 14)
        digits      DMLOCDIG     (array [ 4 ] of char )

          User Tuple Layout    ACD_DN
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                           | | |                             | | |
```

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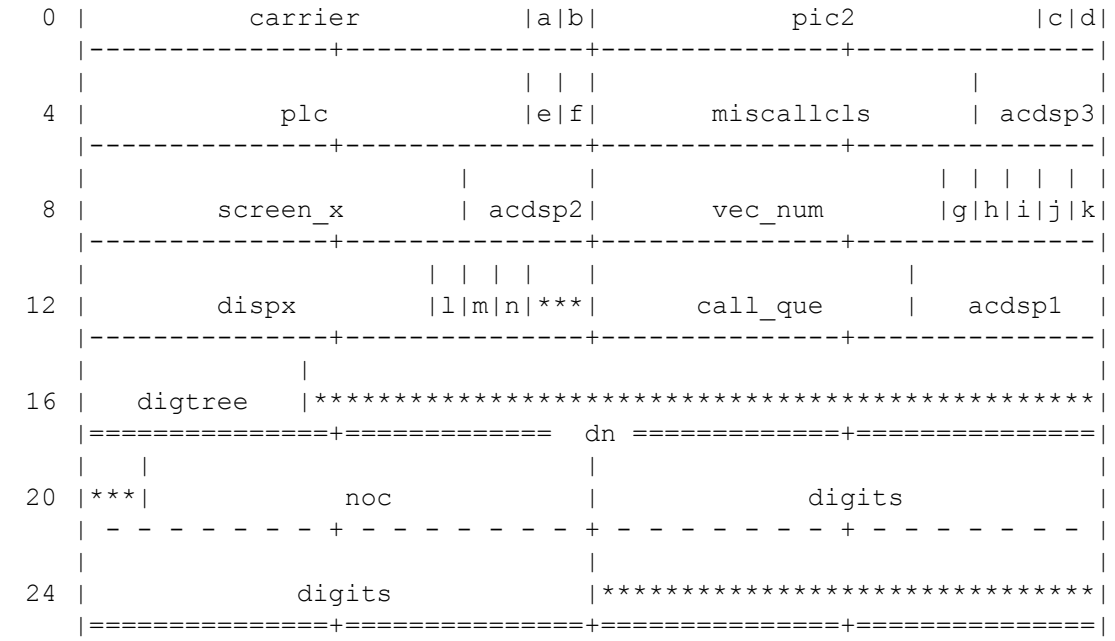


```
    carrier     DMBCARID     (ushort: 14)
(a) vec_asgnd   DMBOOL       (enum: 1)
(b) cnbrdisp    DMBOOL       (enum: 1)
    pic2        DMBCARID     (ushort: 14)
(c) cnbrmis     DMBOOL       (enum: 1)
(d) freeterm    DMBOOL       (enum: 1)
    plc         DMBCARID     (ushort: 14)
(e) line_screen  DMBOOL       (enum: 1)
(f) psap        DMBOOL       (enum: 1)
    miscallcls  DMCLLCLS     (ushort: 12)
    acdsp3      DMUNS4       (ushort: 4)
    screen_x    DMSCRNIDX    (ushort: 12)
    acdsp2      DMUNS4       (ushort: 4)
    vec_num     DMCVNUM      (ushort: 11)
(g) unbundled   DMBOOL       (enum: 1)
(h) acdsp4      DMBOOL       (enum: 1)
(i) acdsp5      DMBOOL       (enum: 1)
(j) acdsp6      DMBOOL       (enum: 1)
(k) acdsp7      DMBOOL       (enum: 1)
    dispx       DMDSPIDX     (ushort: 11)
(l) acdsp8      DMBOOL       (enum: 1)
(m) acdsp9      DMBOOL       (enum: 1)
(n) acdsp10     DMBOOL       (enum: 1)
    call_que    DMCQNUM      (ushort: 10)
    acdsp1      DMUNS6       (ushort: 6)
    digtree     DMDA_TREE    (ushort: 7)
    dn          DMKLOCDN     (struct)  <--- key, compacted
        noc         DMNOC        (ushort: 14)
        index       DMUNS14      (ushort: 14)

         Compacted Tuple Layout     ACD_DN
```

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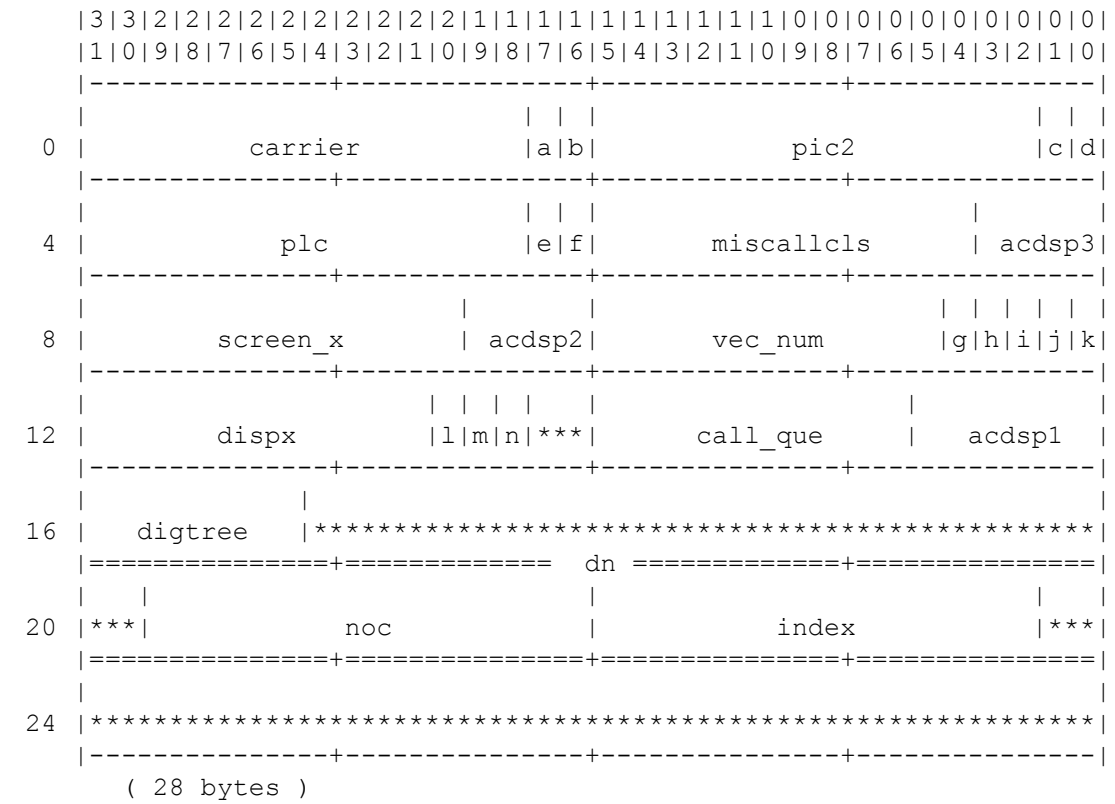


( 28 bytes )

```
    carrier     DMBCARID     (ushort: 14)
(a) vec_asgnd   DMBOOL       (enum: 1)
(b) cnbrdisp    DMBOOL       (enum: 1)
    pic2        DMBCARID     (ushort: 14)
(c) cnbrmis     DMBOOL       (enum: 1)
(d) freeterm    DMBOOL       (enum: 1)
    plc         DMBCARID     (ushort: 14)
(e) line_screen  DMBOOL       (enum: 1)
(f) psap        DMBOOL       (enum: 1)
    miscallcls  DMCLLCLS     (ushort: 12)
    acdsp3      DMUNS4       (ushort: 4)
    screen_x    DMSCRNIDX    (ushort: 12)
    acdsp2      DMUNS4       (ushort: 4)
    vec_num     DMCVNUM      (ushort: 11)
(g) unbundled   DMBOOL       (enum: 1)
(h) acdsp4      DMBOOL       (enum: 1)
(i) acdsp5      DMBOOL       (enum: 1)
(j) acdsp6      DMBOOL       (enum: 1)
(k) acdsp7      DMBOOL       (enum: 1)
    dispx       DMDSPIDX     (ushort: 11)
(l) acdsp8      DMBOOL       (enum: 1)
(m) acdsp9      DMBOOL       (enum: 1)
(n) acdsp10     DMBOOL       (enum: 1)
    call_que    DMCQNUM      (ushort: 10)
    acdsp1      DMUNS6       (ushort: 6)
    digtree     DMDA_TREE    (ushort: 7)
    dn          DMKLOCDN     (struct)  <--- key, compacted
```

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```
        noc         DMNOC        (ushort: 14)
        index       DMUNS14      (ushort: 14)

          Stored Tuple Layout   ACD_DN
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                             | | |                           | | |
 0 |          carrier            |a|b|             pic2            |c|d|
   |---------------+---------------+---------------+---------------|
   |                             | | |                       |       |
 4 |            plc              |e|f|       miscallcls      | acdsp3|
   |---------------+---------------+---------------+---------------|
   |                         |       |                     | | | | | |
 8 |        screen_x         | acdsp2|       vec_num       |g|h|i|j|k|
   |---------------+---------------+---------------+---------------|
   |                       | | | |   |                   |           |
12 |        dispx          |l|m|n|***|      call_que     |   acdsp1  |
   |---------------+---------------+---------------+---------------|
   |              |                                                   |
16 |   digtree    |***************************************************|
   |===============+=============  dn ==============+===============|
   |   |                             |                           |   |
20 |***|            noc              |           index           |***|
   |===============+===============+===============+===============|
      ( 24 bytes )
```

## 4. Population rules for RLacd_dn

### Relation Description

automatic call distributor directory number

This relation contains Automatic Call Distributor (ACD) DN information for ACD DNs that are not being interflowed. For ACD DN information on ACD DNs that are being interflowed, see RLDAA_DN.

**Attribute:**

dn

**Fullname:**

directory number

**Attribute Description:**

This attribute consists of a NOC (normalized office code) and four directory number digits. For ACD DNs, there must be a tuple in RLRTDNMOD with noc+d4d3. Also, on the corresponding routing SM there must be a tuple in RLRT_DNTRAN with noc+d4d3d2d1. There must not be a tuple in RLDAA_DN for this same DN. There must not be a tuple with a scmdn equal to an ACD DN in RLdn_pscm.

**Attribute:**

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dn.noc

**Fullname:**

normalized office code

**Attribute Description:**

see dn

**Attribute:**

dn.digits

**Fullname:**

four directory number digits

**Attribute Description:**

see dn

**Attribute:**

call_que

**Fullname:**

call queue

**Attribute Description:**

This attribute identifies the default call queue that handles calls for this ACD DN. If the call queue is not equal to zero, there must be a tuple with a non zero tgid value in RLCQPARM for this call queue.

**Attribute:**

vec_asgnd

**Fullname:**

vector assigned

**Attribute Description:**

This attribute is DBYES only if a vector has been assigned to handle calls to this ACD DN. When this attribute is DBYES, the vec_num attribute must contain a valid attribute vector number minus 1.

**Attribute:**

vec_num

**Fullname:**

vector number minus 1

**Attribute Description:**

This attribute identifies the RLQVVECTOR tuple that provides call handling while waiting for an ACD agent. When the vec_asgnd attribute is DBYES, vec_num must contain a valid vector number minus 1. There should be an existing tuple in RLQVVECTOR that defines the desired call treatment. When vec_asgnd is DBNO, vec_num should be 0.

**Attribute:**

carrier

**Fullname:**

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carrier

**Attribute Description:**

This attribute indicates the presubscribed carrier for an ACD DN. It is used for ACD call redirection. There must be a tuple in RLFC_CARR for this carrier.

**Attribute:**

pic2

**Fullname:**

presubscribed intra-LATA-toll carrier

**Attribute Description:**

This attribute indicates the presubscribed (preferred) intra-LATA-toll carrier for an ACD DN. It is used for intra-LATA ACD call redirection.

This attribute must be $NULL_BCARID (default) if the ICLATA SF (SFID 149) is not active. When pic2 is not equal to $NULL_BCARID, there must be a tuple in RLFC_CARR for this intra-LATA-toll carrier.

The value of this attribute is independent of the mass presubscribed intra-LATA-toll carrier, Glpic2.

**Attribute:**

plc

**Fullname:**

presubscribed intra-LATA local carrier ID

**Attribute Description:**

This attribute contains the presubscribed intra-LATA local carrier ID for an alternate LSP.

**Attribute:**

cnbrdisp

**Fullname:**

calling number to agent's display

**Attribute Description:**

When this attribute is DBYES, calling numbers (if available) are displayed on the agent's terminal. When it is DBNO, calling numbers are not displayed on the agent's terminal.

**Attribute:**

cnbrmis

**Fullname:**

calling number to management information system

**Attribute Description:**

When this attribute is DBYES, calling numbers (if available) for calls to this ACD DN are sent to the MIS. When it is DBNO, calling numbers for

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calls to this ACD DN are not sent to the MIS.

**Attribute:**
digtree
**Fullname:**
starting digit analysis tree
**Attribute Description:**
This attribute identifies the digit analysis table to start with when analyzing digits for ACD call redirection. There must be a tuple in RLDA_DIGSTRT for this digtree.

**Attribute:**
dispx
**Fullname:**
display index
**Attribute Description:**
This attribute identifies the display index for calls to this ACD DN. If this attribute is non-zero, there must be a tuple in RLACDDISP for this dispx.

**Attribute:**
freeterm
**Fullname:**
free termination
**Attribute Description:**
When this attribute is DBYES, calls to this ACD DN are not billed. When this attribute is DBNO, calls to this ACD DN get standard billing treatment (and therefore if chargeable, get billed).

**Attribute:**
line_screen
**Fullname:**
line screen
**Attribute Description:**
When this attribute is DBYES, this ACD DN is associated with toll/code restriction/diversion or WATS band screening. This attribute is used for ACD call redirection.

**Attribute:**
miscallcls
**Fullname:**
management information system call class
**Attribute Description:**
This attribute is used by the Management Information System (MIS) to track ACD calls.

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**Attribute:**
screen_x
**Fullname:**
screening index
**Attribute Description:**
This attribute is used for routing and charging redirected ACD calls. There must be a tuple in RLrt_scrning for this screen_x.

**Attribute:**
psap
**Fullname:**
e911 public safety answering point
**Attribute Description:**
This attribute is used for the ACD E911 Public Safety Answering Point Special Feature to indicate if this ACD DN is an ACD E911 PSAP. The ACD E911 PSAP special feature is a secured feature (SFID 143). This attribute must not be set to DBYES unless the special feature has been purchased.

**Attribute:**
unbundled
**Fullname:**
Network/LEC indicator, for calls to complete to an alternate LSP platform.
**Attribute Description:**
When unbundled = DBYES, (None/1)+ 7/10 digit intra-LATA local calls route using presubscribed local carrier (PLC) information. If PLC routing information is not populated, route via the LEC. When unbundled = DBNO, (None/1)+ 7/10 digit intra-LATA local calls always route via the LEC.

**Attribute:**
acdsp1
**Fullname:**
ACD/BRCS spare 1
**Attribute Description:**
Spare ACD/BRCS attribute.

**Attribute:**
acdsp2
**Fullname:**
ACD/BRCS spare 2
**Attribute Description:**
Spare ACD/BRCS attribute.

**Attribute:**

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acdsp3
**Fullname:**
ACD/BRCS spare 3
**Attribute Description:**
Spare ACD/BRCS attribute.

**Attribute:**
acdsp4
**Fullname:**
ACD/BRCS spare 4
**Attribute Description:**
Spare ACD/BRCS attribute.

**Attribute:**
acdsp5
**Fullname:**
ACD/BRCS spare 5
**Attribute Description:**
Spare ACD/BRCS attribute.
Spare ACD/BRCS attribute.

**Attribute:**
acdsp6
**Fullname:**
ACD/BRCS spare 6
**Attribute Description:**
Spare ACD/BRCS attribute.
Spare ACD/BRCS attribute.

**Attribute:**
acdsp7
**Fullname:**
ACD/BRCS spare 7
**Attribute Description:**
Spare ACD/BRCS attribute.

**Attribute:**
acdsp8
**Fullname:**
ACD/BRCS spare 8
**Attribute Description:**
Spare ACD/BRCS attribute.

**Attribute:**
acdsp9
**Fullname:**
ACD/BRCS spare 9

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**Attribute Description:**
Spare ACD/BRCS attribute.

**Attribute:**
acdsp10
**Fullname:**
ACD/BRCS spare 10
**Attribute Description:**
Spare ACD/BRCS attribute.

**Defines:**
"db/DMcarr_val.h"

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# ACD_POS

## 1. Description

ACD/BRCS position number to port mapping.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 9999 |
| expected tuples in relation | 1000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | ACDBRCS |
| relation type | DBSTATIC |
| ks key stored | AUTO |
| trigger function | DBtracdpos |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
ACD_POS     relid = 1904  DBSTATIC   DBACC_CIND  DBPRAM    LP      ACDBRCS

     port        DMPORT       (ushort)
     ltm_idxi    DMLTM_IDX    (ulong: 16)
     posnum      DMPNUM       (ushort: 14)     <--- key
  (a) acdsp4     DMBOOL       (enum: 1)
  (b) acdsp5     DMBOOL       (enum: 1)
     module      DMMODULE     (ushort: 8)
     acdsp1      DMUNS8       (ushort: 8)
     party       DMPARTY      (ushort: 4)
     acdsp2      DMUNS4       (ushort: 4)
     acdsp3      DMUNS4       (ushort: 4)
  (c) acdsp6     DMBOOL       (enum: 1)
  (d) acdsp7     DMBOOL       (enum: 1)
  (e) acdsp8     DMBOOL       (enum: 1)
  (f) acdsp9     DMBOOL       (enum: 1)
  (g) acdsp10    DMBOOL       (enum: 1)
     pos_dn      DMLOCDN      (struct)     <--- compacted
         noc          DMNOC        (ushort: 8)
         digits       DMLOCDIG     (array [ 4 ] of char )
```

```
            User Tuple Layout   ACD_POS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |               port            |            ltm_idxi           |
    |---------------+---------------+---------------+---------------|
    |                           | | |               |               |
  4 |           posnum          |a|b|     module    |     acdsp1    |
    |---------------+---------------+---------------+---------------|
    |       |       |       | | | | | |                               |
  8 | party | acdsp2| acdsp3|c|d|e|f|g|*******************************|
```

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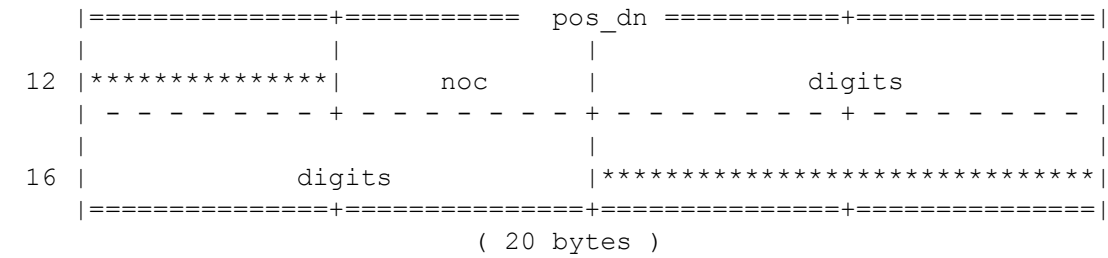
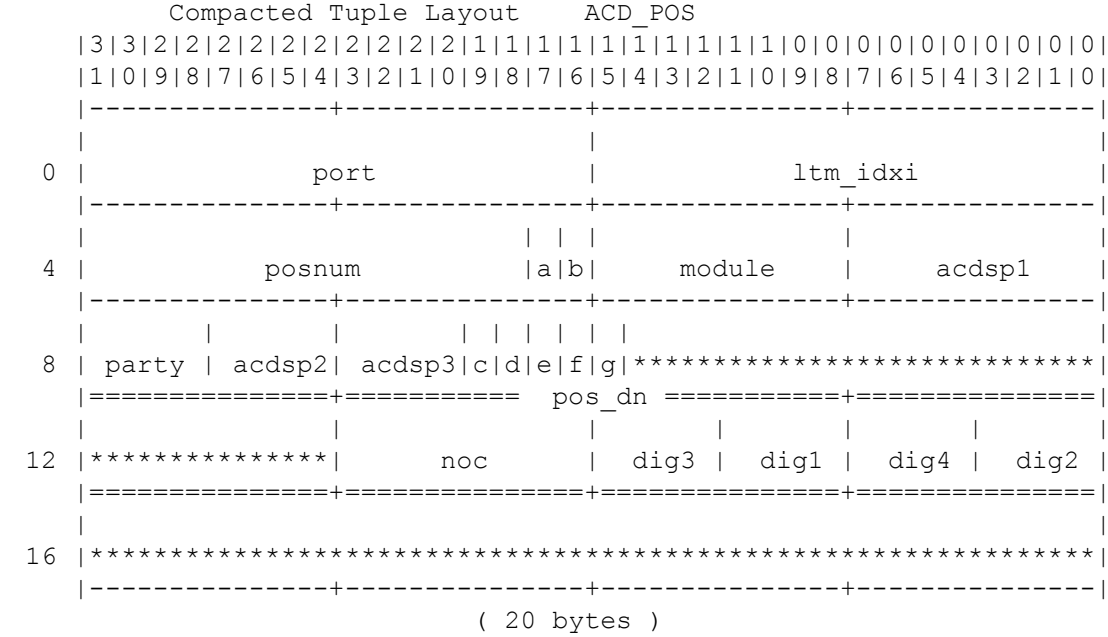


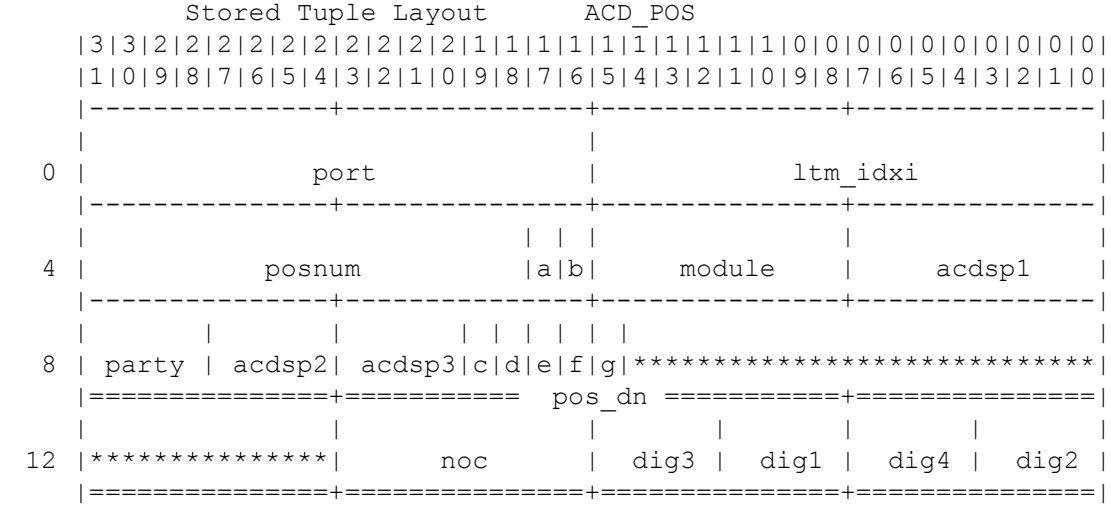

```
    port        DMPORT       (ushort)
    ltm_idxi    DMLTM_IDX    (ulong: 16)
    posnum      DMPNUM       (ushort: 14)     <--- key
(a) acdsp4      DMBOOL       (enum: 1)
(b) acdsp5      DMBOOL       (enum: 1)
    module      DMMODULE     (ushort: 8)
    acdsp1      DMUNS8       (ushort: 8)
    party       DMPARTY      (ushort: 4)
    acdsp2      DMUNS4       (ushort: 4)
    acdsp3      DMUNS4       (ushort: 4)
(c) acdsp6      DMBOOL       (enum: 1)
(d) acdsp7      DMBOOL       (enum: 1)
(e) acdsp8      DMBOOL       (enum: 1)
(f) acdsp9      DMBOOL       (enum: 1)
(g) acdsp10     DMBOOL       (enum: 1)
    pos_dn      DMCLOCDN     (struct)     <--- compacted
        noc         DMNOC        (ushort: 8)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
```




```
    port        DMPORT       (ushort)
    ltm_idxi    DMLTM_IDX    (ulong: 16)
```

```
    posnum      DMPNUM       (ushort: 14)     <--- key
(a) acdsp4      DMBOOL       (enum: 1)
(b) acdsp5      DMBOOL       (enum: 1)
    module      DMMODULE     (ushort: 8)
    acdsp1      DMUNS8       (ushort: 8)
    party       DMPARTY      (ushort: 4)
    acdsp2      DMUNS4       (ushort: 4)
    acdsp3      DMUNS4       (ushort: 4)
(c) acdsp6      DMBOOL       (enum: 1)
(d) acdsp7      DMBOOL       (enum: 1)
(e) acdsp8      DMBOOL       (enum: 1)
(f) acdsp9      DMBOOL       (enum: 1)
(g) acdsp10     DMBOOL       (enum: 1)
    pos_dn      DMCLOCDN     (struct)     <--- compacted
        noc         DMNOC        (ushort: 8)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
```

Stored Tuple Layout ACD_POS




( 16 bytes )

## 4. Population Rules for RLacd_pos

**Relation Description**

This relation contains ACD/BRCS position number to port mapping information. It is used by RC and ODA when administering position numbers. Also, it is used by office records when reporting on position number assignments and audits for maintaining dynamic RLSRVQDB data.

**Attribute: posnum**

**Fullname:** position number

**Attribute Description:** This attribute uniquely identifies an ACD/BRCS position.

**Attribute: module**

**Fullname:** switching module

**Attribute Description:** This attribute identifies the switching module where this ACD/BRCS position

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is located.

**Attribute: port**

**Fullname:** local port name

**Attribute Description:** This attribute identifies the local d-port to which this ACD/BRCS position is assigned.

**Attribute: party**

**Fullname:** party

**Attribute Description:** This attribute indicates the user to which this ACD/BRCS position is assigned.

**Attribute: pos_dn**

**Fullname:** position directory number

**Attribute Description:** This attribute identifies the primary directory number of this ACD/BRCS position.

**Attribute: pos_dn.noc**

**Fullname:** normalized office code

**Attribute Description:** See pos_dn.

**Attribute: pos_dn.digits**

**Fullname:** four directory number digits

**Attribute Description:** See pos_dn.

**Attribute: ltm_idxi**

**Fullname:** logical termination index

**Attribute Description:** This attribute is the sequential number assigned to correspond with the primary DN of this ACD/BRCS position.

**Attribute: acdsp1**

**Fullname:** ACD/BRCS spare 1

**Attribute Description:** Spare ACD/BRCS attribute.

**Attribute: acdsp2**

**Fullname:** ACD/BRCS spare 2

**Attribute Description:** Spare ACD/BRCS attribute.

**Attribute: acdsp3**

**Fullname:** ACD/BRCS spare 3

**Attribute Description:** Spare ACD/BRCS attribute.

**Attribute: acdsp4**

**Fullname:** ACD/BRCS spare 4

**Attribute Description:** Spare ACD/BRCS attribute.

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**Attribute: acdsp5**

**Fullname:** ACD/BRCS spare 5

**Attribute Description:** Spare ACD/BRCS attribute.

**Attribute: acdsp6**

**Fullname:** ACD/BRCS spare 6

**Attribute Description:** Spare ACD/BRCS attribute.

**Attribute: acdsp7**

**Fullname:** ACD/BRCS spare 7

**Attribute Description:** Spare ACD/BRCS attribute.

**Attribute: acdsp8**

**Fullname:** ACD/BRCS spare 8

**Attribute Description:** Spare ACD/BRCS attribute.

**Attribute: acdsp9**

**Fullname:** ACD/BRCS spare 9

**Attribute Description:** Spare ACD/BRCS attribute.

**Attribute: acdsp10**

**Fullname:** ACD/BRCS spare 10

**Attribute Description:** Spare ACD/BRCS attribute.

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# ACDDISP

## 1. Description

ACD/BRCS display index to character display mapping.

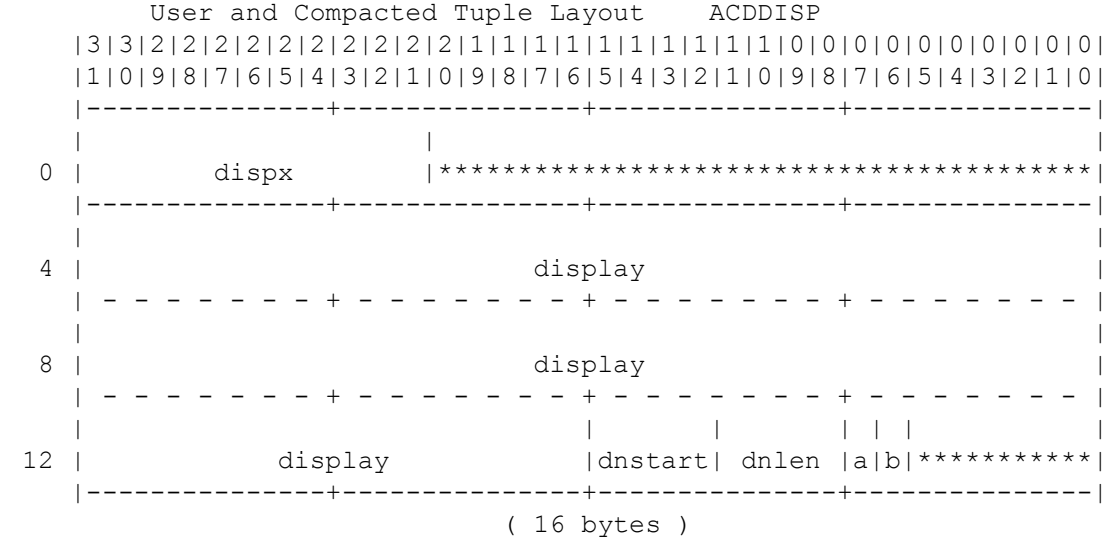
## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2047 |
| expected number of tuples | 200 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| ks key store | AUTO |

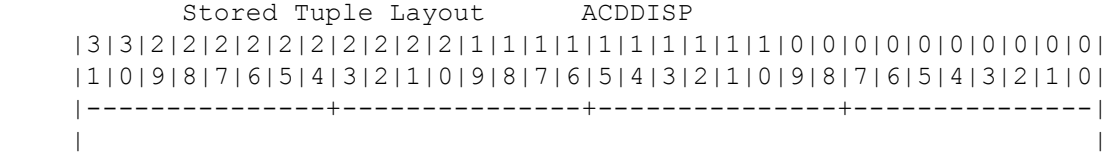
## 3. Field Layout

```
ACDDISP     relid = 2339  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL

     dispx       DMDSPIDX     (ushort: 11)     <--- key, not stored
     display     DMACDDISP    (array [ 10 ] of char )
     dnstart     DMDIGCNT     (uchar: 4)
     dnlen       DMDIGCNT     (uchar: 4)
 (a) disp_clg    DMBOOL       (enum: 1)
 (b) disp_cld    DMBOOL       (enum: 1)
```




```
     display     DMACDDISP    (array [ 10 ] of char )
     dnstart     DMDIGCNT     (uchar: 4)
     dnlen       DMDIGCNT     (uchar: 4)
 (a) disp_clg    DMBOOL       (enum: 1)
 (b) disp_cld    DMBOOL       (enum: 1)
```

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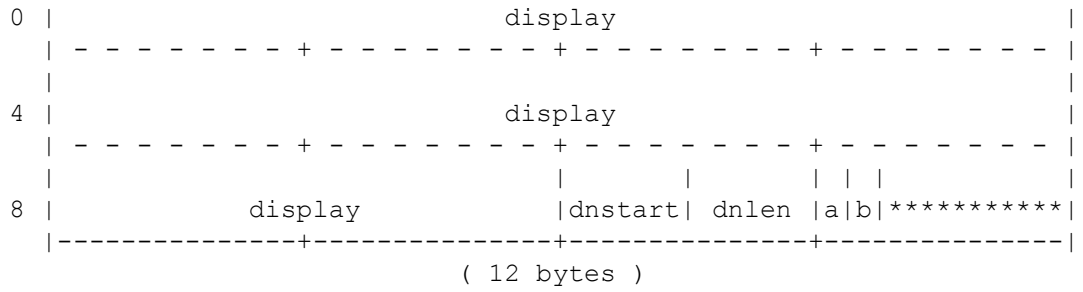


## 4. Population Rules for RLacddisp

**Relation Description**

ACD/BRCS call seizure display.

ACD/BRCS display index to character display mapping.

**Attribute: dispx**

**Fullname:** Display index

**Attribute Description:** This key attribute is an index used to identify displays on ACD/BRCS positions for incoming calls delivered through the queue.

**Attribute: display**

**Fullname:** display

**Attribute Description:** Displayed upon terminating to an ACD/BRCS agent. Filled with up to SZACDDISP characters 'A'-'Z','a'-'z', '0'-'9', '-','/', and ' '(blank).

**Attribute: dnstart**

**Fullname:** display number start

**Attribute Description:** This numerical value is the "n"th digit in the calling/called number to start displaying. It is used to point to the first digit of a number.

**Attribute: dnlen**

**Fullname:** display number length

**Attribute Description:** calling/called number display length This attribute is used to specify how many digits are displayed beginning at the "dnstart" digit.

**Attribute: disp_clg**

**Fullname:** display calling

**Attribute Description:** display of the calling directory number This attribute indicates that the calling DN is to be displayed at the agent's terminal.

**Attribute: disp_cld**

**Fullname:** display called

**Attribute Description:** display of the called directory number This attribute indicates that the called DN is to be displayed at the agent's terminal.

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# ACOFTRAN

## 1. Description

Maps the control port and party for a particular ACOF restriction.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| expected number of tuples | 2 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
ACOFTRAN    relid = 944   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP

     lport       DMLPORT      (ushort: 16)
     config      DMCONFIG     (ulong: 12)     <--- key
 (a) cpe_comp    DMCPECOMP    (uchar: 3)     <--- key
     button      DMBUTTON     (uchar: 8)     <--- key
     lport_mod   DMMODULE     (ushort: 8)
     afidx       DMUNS5       (ushort: 5)
 (b) lpt_type    DMLPT_TYPE   (enum: 2)

         User, Compacted and Stored Tuple Layout   ACOFTRAN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                       |     | |
  0 |             lport             |         config        |  a  |*|
    |---------------+---------------+---------------+---------------|
    |               |               |         |   |                 |
  4 |     button    |   lport_mod   |  afidx  | b |*****************|
    |---------------+---------------+---------------+---------------|
                             ( 8 bytes )
```

## 4. Population Rules for RLacoftran

### Relation Description

ACOF button translation

Maps the control port and party for a particular ACOF restriction.

Information concerning this section is not available at this time.

**Attribute: config**

**Fullname:** configuration group

**Attribute Description:** This number must be created and put in RLfacname.facid and RLfid2name.facid before being assigned to RLis_term.config. Unassigned configurations exist only in the AM.

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**Attribute: cpe_comp**

**Fullname:** CPE component

**Attribute Description:** This cpe_comp must be the same as RLbnfeat.cpe_comp which has an action of ACN_IACOF and the same config as this relation.

**Attribute: button**

**Fullname:** ISDN station set button number

**Attribute Description:** This button number must be the same as RLbnfeat.button which has an action of ACN_IACOF and the same config as this relation.

**Attribute: lport**

**Fullname:** control lport of an IDP group for an ACOF restriction

**Attribute Description:** Verify existence of tuple in RLfc_line where RLfc_line.lport = RLacoftran.lport AND RLfc_line.lpt_type = RLacoftran.lpt_type. The keys for RLfc_line are:

```
RLfc_line.port = RLlpt_pt(RLacoftran.lport,RLacoftran.lpt_type)
       .port.member
RLfc_line.party = RLlpt_pt(RLacoftran.lport,RLacoftran.lpt_type
).party
        Also, verify existence of tuple in RLtrmfeats
        for this control lport and lpt_type that has the IDP
        modular feature type assigned.
```

**Attribute: lpt_type**

**Fullname:** lport type

**Attribute Description:** Information concerning this section is not available at this time.

**Attribute: lport_mod**

**Fullname:** module control lport is located on

**Attribute Description:** Information concerning this section is not available at this time.

**Attribute: afidx**

**Fullname:** ACOF button index for this button

**Attribute Description:** This index is assigned in RLisatlmt in attribute afbitmap. See RLisatlmt.P for information on how the index is generated.

```
Dependencies:
The bit which corresponds to this index
number in rlISATLMT.afbitmap must be set to '1'.

Verify the existence of a tuple in RLisafidx
such that
rlISAFIDX.config = rlACOFTRAN.config

rlISAFIDX.afidx  = rlACOFTRAN.afidx
```

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# ACPFX

## 1. Description

LASS automatic callback office prefix exception record specification.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| permutation type | un_perm |

## 3. Field Layout

```
ACPFX       relid = 1133  DBSTATIC   DBACC_LIN   DBPRAM    FR      NULL

 (a) dummy_key   DMBOOL       (enum: 1)     <--- key
 (b) ofc_pfx     DMBOOL       (enum: 1)
     ids_in_use  DMUNS8       (ushort: 8)
 (c) inpa_sp1    DMBOOL       (enum: 1)
 (d) inpa_sp2    DMBOOL       (enum: 1)
     excpid1     DMPFXENTRY   (struct)
         pfxid       DMPFXID      (array [ 6 ] of char )
         pfxcnt      DMUNS8       (ushort: 8)
     excpid2     DMPFXENTRY   (struct)
         pfxid       DMPFXID      (array [ 6 ] of char )
         pfxcnt      DMUNS8       (ushort: 8)
     excpid3     DMPFXENTRY   (struct)
         pfxid       DMPFXID      (array [ 6 ] of char )
         pfxcnt      DMUNS8       (ushort: 8)
     excpid4     DMPFXENTRY   (struct)
         pfxid       DMPFXID      (array [ 6 ] of char )
         pfxcnt      DMUNS8       (ushort: 8)
     excpid5     DMPFXENTRY   (struct)
         pfxid       DMPFXID      (array [ 6 ] of char )
         pfxcnt      DMUNS8       (ushort: 8)
     excpid6     DMPFXENTRY   (struct)
         pfxid       DMPFXID      (array [ 6 ] of char )
         pfxcnt      DMUNS8       (ushort: 8)
     excpid7     DMPFXENTRY   (struct)
         pfxid       DMPFXID      (array [ 6 ] of char )
         pfxcnt      DMUNS8       (ushort: 8)
     excpid8     DMPFXENTRY   (struct)
         pfxid       DMPFXID      (array [ 6 ] of char )
         pfxcnt      DMUNS8       (ushort: 8)
     excpid9     DMPFXENTRY   (struct)
         pfxid       DMPFXID      (array [ 6 ] of char )
         pfxcnt      DMUNS8       (ushort: 8)
     excpid10    DMPFXENTRY   (struct)
         pfxid       DMPFXID      (array [ 6 ] of char )
         pfxcnt      DMUNS8       (ushort: 8)
```

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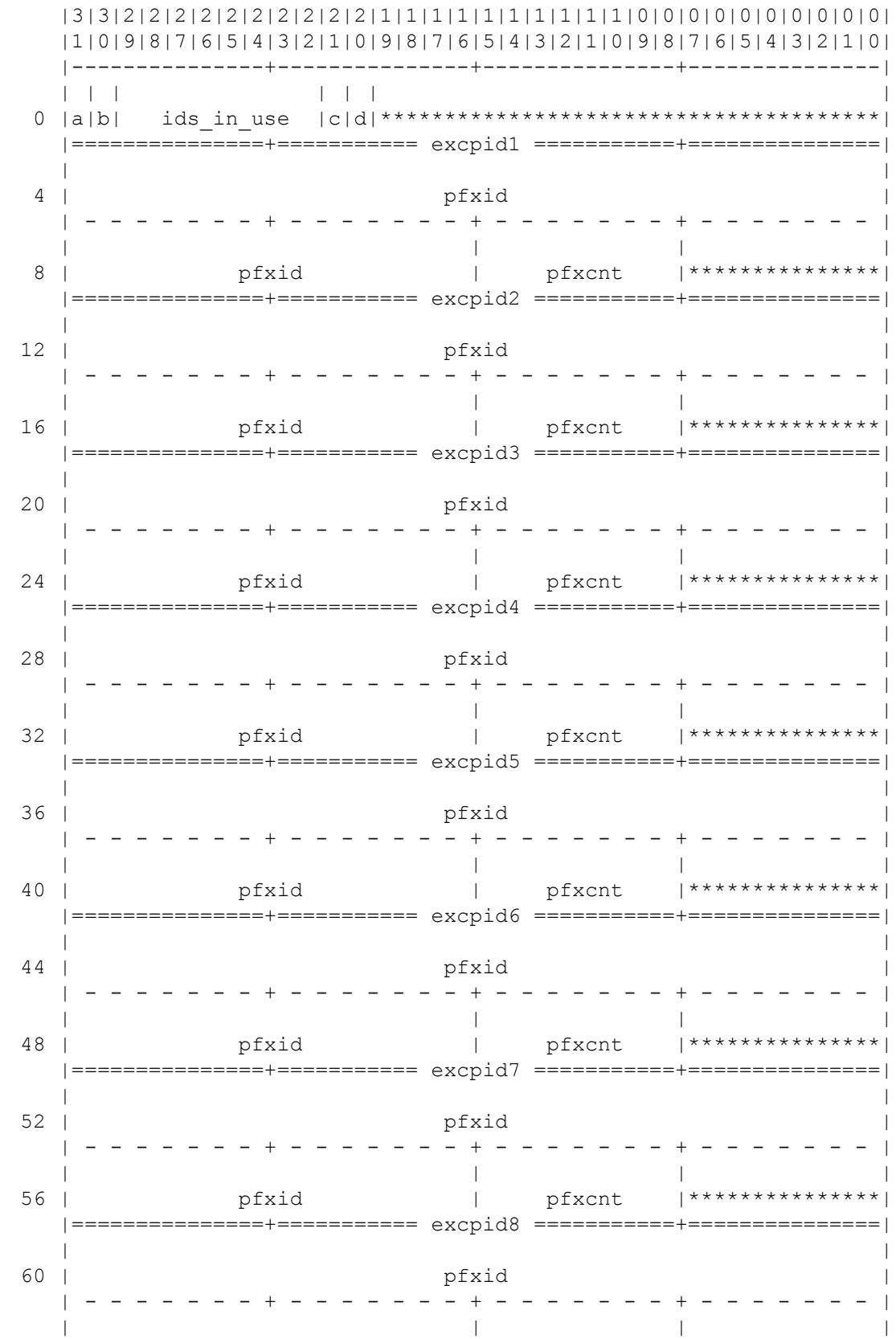
User, Compacted and Stored Tuple Layout ACPFX

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```
 64 |             pfxid             |     pfxcnt    |***************|
    |===============+=========== excpid9 ===========+===============|
    |                                                                |
 68 |                             pfxid                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |               |               |
 72 |             pfxid             |     pfxcnt    |***************|
    |===============+==========  excpid10 ==========+===============|
    |                                                                |
 76 |                             pfxid                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |               |               |
 80 |             pfxid             |     pfxcnt    |***************|
    |===============+===============+===============+===============|
                             ( 84 bytes )
```

```
domain alACPFX    struct  (6 sub-attributes)
   (a)     dummy_key   .0fake       (enum)
   (b)     ofc_pfx     .0fake       (enum)
           ids_in_use  .3.fake      (ushort)
   (c)     inpa_sp1    .0fake       (enum)
   (d)     inpa_sp2    .0fake       (enum)
           excpid      .4.fake      (array [ 10 ] of .1fake )
               pfxid       .0.fake      (array [ 6 ] of char )
               pfxcnt      .1.fake      (ushort)
```

```
         Structure Layout   alACPFX
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | | |               | | |                                       |
  0 |a|b|    ids_in_u   |c|d|***************************************|
    |===============+========== excpid[0] ==========+===============|
    |                                                                |
  4 |                             pfxid                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |               |               |
  8 |             pfxid             |     pfxcnt    |***************|
    |===============+========== excpid[1] ==========+===============|
    |                                                                |
 12 |                             pfxid                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |               |               |
 16 |             pfxid             |     pfxcnt    |***************|
    |===============+========== excpid[2] ==========+===============|
    |                                                                |
 20 |                             pfxid                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |               |               |
 24 |             pfxid             |     pfxcnt    |***************|
    |===============+========== excpid[3] ==========+===============|
    |                                                                |
 28 |                             pfxid                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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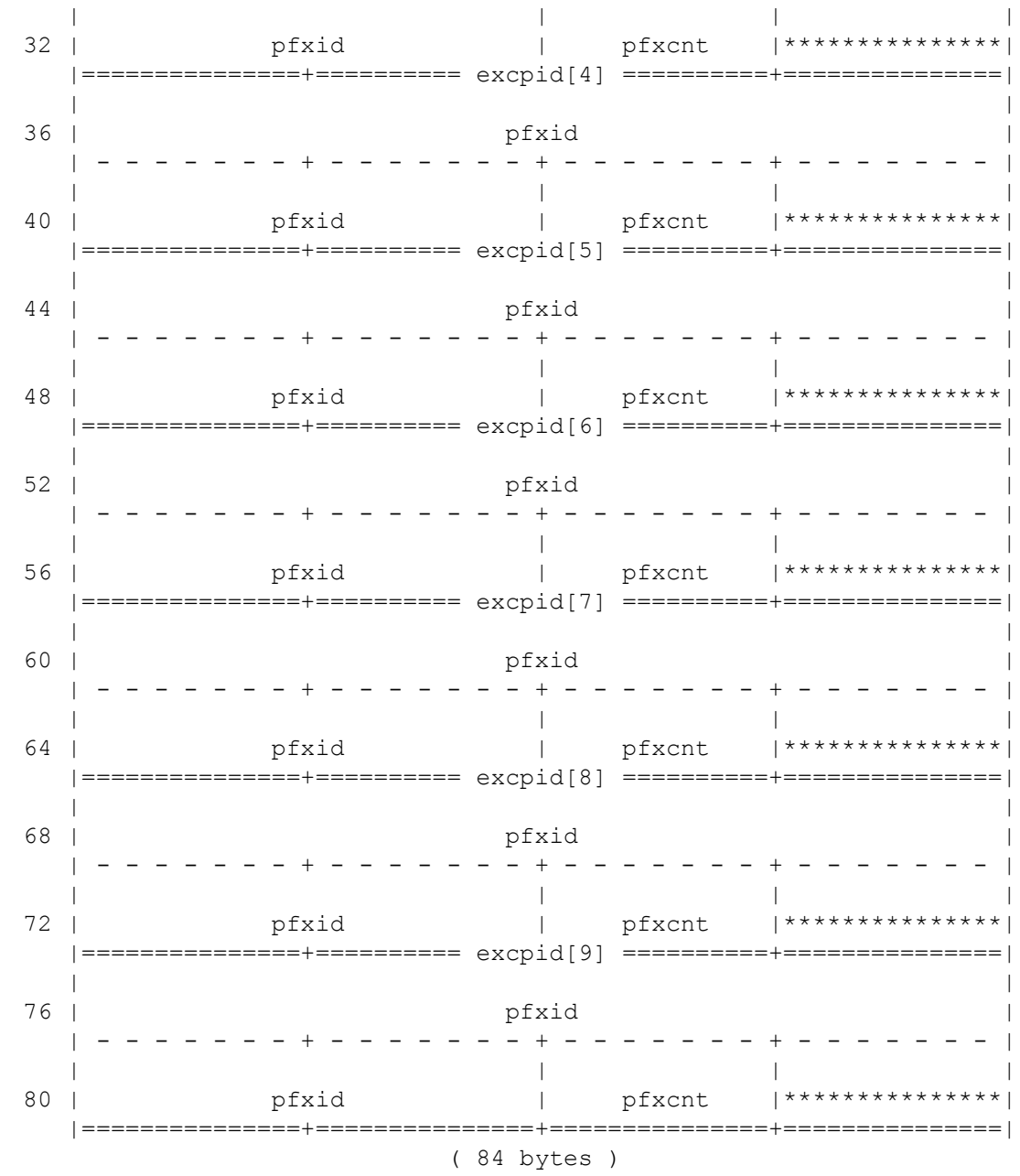


## 4. Population Rules for RLacpfx

### Relation Description

LASS automatic callback office prefix exception list. Upon invoking LASS AC, the DN in the ILHB must be translated to a valid number that will allow the user to call back the last incoming calling DN (LICDN). A global office parameter, Glinpa, will first be checked to see if the area code corresponding to the LICDN is the NPA most often implied by a call received in the office. If the implied NPA for the LICDN is the same as what is in Glinpa, then the LICDN is allowed to be translated on less than 3 digits. If this is not the case, relation RLnmimpdgt is read to reconstruct the full destination code for the LICDN. If the call is still not routable because it must be determined if a 1+ needs to be prefixed or not, this relation which is an exception list, is read to determine what special office codes are an exception to the office standard ( either 1+ is the norm or none+ is ) specified in the relation via the ofc_pfx field.

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**Attribute: dummy_key**

**Fullname:** dummy key

**Attribute Description:** This relation does not need a key, but one is required. A dummy key is used for this relation.

**Attribute: ofc_pfx**

**Fullname:** office prefix standard

**Attribute Description:** This attribute specifies whether or not the office standard is that of accepting DNs dialed with or without a 1+ dialed to a particular NPA or NPA-NXX or whether the office will not accept termination to a DN with a particular NPA or NPA-NXX if a 1+ is dialed. The office standard is to accept either 1+ or no 1+ dialing. If the ofc_pfx is set to DBYES, then 1 + NPA and/or 1 + NPA-NXX is defined in the office dialing plan and will route to the DN. If it is set to DBNO, then none + NPA and/or none + NPA-NXX is defined in the office dialing plan and will route to the DN.

**Attribute: ids_in_use**

**Fullname:** number of exception structures in use

**Attribute Description:** This attribute specifies the current number of exception entries populated. The exception structures must be populated in a sequential order, excpid1 first, then excpid2 second, etc.

**Attribute: inpa_sp1**

**Fullname:** INPA feature spare bit 1

**Attribute Description:** Spare place holder for use by the INPA feature

**Attribute: inpa_sp2**

**Fullname:** INPA Feature spare bit 2

**Attribute Description:** Spare place holder for use by the INPA feature.

**Attribute: excpid[*]**

**Fullname:** exception list - entries 1..10

**Attribute Description:** There are 10 exception list entries. Each is composed of the exception list count and the exception list digits (in ASCII).

**Attribute: excpid[*].pfxid**

**Fullname:** exception list entry id

**Attribute Description:** Exception List entry ID. This field specifies the exception list digits in ascii. The exception list digits in each entry specify either an NPA, or an NPA-NXX combination. Office codes within that office that are exceptions to what the office standard is are contained in the exception list. LASS Automatic Callback invocation will cause this relation to be read to see if the number that is being called back is an exception to what the office standard is. The maximum number of entries on the list is 10, each of which may be 3 or 6 digits in length. Office codes which just consist of an NPA must be populated first in this list and those which consist of NPA-NXX must be populated last in the list.

**Attribute: excpid[*].pfxcnt**

**Fullname:** exception list count

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**Attribute Description:** There are 10 of these counters that keep track of how many digits have been populated in a corresponding exception list entry. An exception list entry will contain at a minimum the NPA.

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# ACSR_GRP

## 1. Description

Automatic customer station rearrangement (ACSR) feature group parameter data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 500 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | ACSR |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 2 |
| ks key store | DBNO |
| corcable relation | DBYES |

## 3. Field Layout

```
ACSR_GRP    relid = 1126  DBSTATIC   DBACC_CIND  DBPRAM    LPFG    ACSR

     acsr_gpid   DMGRPID      (ushort: 10)     <--- key, not stored
     bcid        DMUNS16      (ushort)
     apid        DMAPZSITE    (ushort: 8)
 (a) ring_typ    DMMCDRING    (enum: 4)
 (b) ring_max    DMACB_MAXR   (enum: 3)
 (c) grp_active  DMBOOL       (enum: 1)

         User and Compacted Tuple Layout   ACSR_GRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  0 |     acsr_gpid     |*******************************************|
    |---------------+---------------+---------------+---------------|
    |                               |               |       |     | |
  4 |              bcid             |      apid     |   a   |  b  |c|
    |---------------+---------------+---------------+---------------|
                              ( 8 bytes )

     bcid        DMUNS16      (ushort)
     apid        DMAPZSITE    (ushort: 8)
 (a) ring_typ    DMMCDRING    (enum: 4)
 (b) ring_max    DMACB_MAXR   (enum: 3)
 (c) grp_active  DMBOOL       (enum: 1)

           Stored Tuple Layout     ACSR_GRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |       |     | |
  0 |              bcid             |      apid     |   a   |  b  |c|
    |---------------+---------------+---------------+---------------|
                             ( 4 bytes )
```

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## 4. Population Rules for RLacsr_grp

### Relation Description

Automatic customer station rearrangement group parameter. This relation provides the automatic customer station rearrangement (ACSR) group parameter data.

The application processor (AP) will automatically receive update information whenever an ACSR move occurs. The application processor identification (APID) has an associated business customer BCID specified.

**Attribute: acsr_gpid**

**Fullname:** ACSR group ID

**Attribute Description:** The ACSR group ID is an identifier resulting from the conversion from an 8 character ACSR group name. The ACSR group name is an identifier with a class of FACACSR and a subclass of SCL_NULL.

**Attribute: apid**

**Fullname:** Application processor ID (APID)

**Attribute Description:** Applications processor ID specifies the destination AP (or external processor) that messages are sent regarding ACSR moves from users associated with this ACSR group. A value of zero implies no AP for this ACSR group.

**Attribute: bcid**

**Fullname:** Business customer ID (BCID)

**Attribute Description:** Business customer ID for this ACSR group as it relates to the APID. A value of zero implies that this ACSR group is not associated with an AP.

Messages sent to an external processor (that is, applications processor) concerning ACSR moves will include this number for identifying the user (or business customer) on that external processor.

**Attribute: ring_typ**

**Fullname:** ACSR ring back cadence selector

**Attribute Description:** Ringback cadence selector specifies the type of ringing to be applied for the ACSR ringback call. ACSR attempts to ring back the customer after the RC is completed. This field specifies the ring type and duration of ring. It will ring when the customer invokes it.

**Attribute: ring_max**

**Fullname:** ACSR ring back interval

**Attribute Description:** The ringback interval specifies the number of seconds to allow ringing to occur during an ACSR ringback call.

**Attribute: grp_active**

**Fullname:** ACSR group active

**Attribute Description:** ACSR group status indicates if the ACSR group is active or inactive. A user with the appropriate ACSR feature (RLacsr_usr.grp_cntrl is DBYES) can utilize dialed codes (or CORCs) to modify the ACSR group status.

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# ACSR_LDM

## 1. Description

This is the Automatic Customer Station Rearrangement (ACSR) Large Data Move (LDM) relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 500 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 0 |
| foldtype | DBDEFAULT |

## 3. Field Layout

```
ACSR_LDM    relid = 1231  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP

     use_count   DMSHORT      (short)
     acsr_gpid   DMGRPID      (ushort: 10)     <--- key
     ldm_type    DMGPD_GPS    (enum: 6)     <--- key
     ldm_gpid    DMGRPID      (ushort: 10)     <--- key

         User, Compacted and Stored Tuple Layout   ACSR_LDM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                   |           |
  0 |           use_count           |     acsr_gpid     |  ldm_type |
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  4 |      ldm_gpid     |*******************************************|
    |---------------+---------------+---------------+---------------|
                              ( 8 bytes )
```

## 4. Population Rules for RLacsr_ldm

### Relation Description

Automatic Customer Station Rearrangement Large Data Movement Control Relation

This relation provides control information for the distribution of the Automatic Route Selection (ARS) and Individualized Dialing Plan (IDP) Group Partitioned Data (GPD). The relation is used by Recent Change to prevent setting up configurations where IDP and ARS group data needs to be moved during an ACSR end-user originated line move. The tuples in this relation documents the number of interactions between ARS and ACSR, and IDP and ACSR so Recent Change will know what bit maps in RLdb_amgpd to check to verify the distribution of the ARS or IDP group data. An interaction is created whenever a particular user has both IDP and ACSR, or ARS and ACSR. The relation is used in the following cases:

- an ACSR group is assigned/removed from a DSL,
- an ACSR group is assigned/removed from an ISDN user who also has either IDP or ARS,

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- an IDP group is assigned/removed from an ISDN user who also has ACSR, and
- an ARS group is assigned/removed from an ISDN user who also has ACSR.

See also: RLdb_amgpd.P, RLid_port.P, RLarport.P, RLdslequip.P.

**Attribute: acsr_gpid**

**Fullname:** Automatic Customer Station Rearrangement Group Identification number

**Attribute Description:** The ACSR Group ID identifies an ACSR Group associated with a DSL on a particular SM. This ACSR Group is also assigned to a User who is a member of an ARS group or an IDP group.

**Attribute: ldm_gpid**

**Fullname:** Large Data Movement Group Identification Number

**Attribute Description:** The Large Data Movement Group ID identifies an ARS or IDP Group associated with a particular User who is also a member of an ACSR group.

**Attribute: ldm_type**

**Fullname:** Large Data Movement Group Type (ARS or IDP)

**Attribute Description:** The Large Data Movement Group Type identifies the type (ARS or IDP) of the Large Data Movement Group.

**Attribute: use_count**

**Fullname:** Use Count

**Attribute Description:** The Use Count attribute specifies the number of Users who are members of both this ACSR group and this LDM group.

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# ACSR_OPT

## 1. Description

Automatic customer station rearrangement constructed feature options and default parameters - used in AM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 64 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | ACSR |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 2 |

## 3. Field Layout

```
ACSR_OPT    relid = 1127  DBSTATIC   DBACC_CIND  DBPRAM    LP      ACSR

     feat_id     DMFID        (ushort: 10)     <--- key
 (a) ama_rec     DMBOOL       (enum: 1)
 (b) grp_control  DMBOOL       (enum: 1)
 (c) pin_req     DMBOOL       (enum: 1)
     acsr_group  DMFACNAME    (array [ 8 ] of char )

         User, Compacted and Stored Tuple Layout   ACSR_OPT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   | | | |     |                               |
  0 |      feat_id      |a|b|c|*****|           acsr_group          |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                          acsr_group                           |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                 |                             |
  8 |           acsr_group            |*****************************|
    |---------------+---------------+---------------+---------------|
                            ( 12 bytes )
```

## 4. Population Rules for RLacsr_opt

### Relation Description

Automatic customer station rearrangement constructed feature options. This relation provides the automatic customer station rearrangement (ACSR) feature option and default parameter information used in the AM.

**Attribute: feat_id**

**Fullname:** feature identification

**Attribute Description:** A BRCS constructed feature ID consists of a modular feature type and a unique identifier. Only the unique portion of the BRCS feature ID is stored in this attribute. For an automatic customer station rearrangement (ACSR) feature, the modular feature type is MFACSR which is an enumeration of DMMFTYPE. The feature ID must have a class of FACBRCS and a

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subclass of SCL_FEAT.

**Attribute: ama_rec**

**Fullname:** AMA Recording

**Attribute Description:** This attribute indicates if an AMA billing record should be generated for this ACSR feature. The generation of an AMA record for ACSR feature use provides usage sensitive billing. By not generating an AMA record, flat rate billing applies. It can take a value DBYES or DBNO

```
DBYES   /* generate AMA record */
DBNO    /* do not generate AMA record */
```

**Attribute: grp_control**

**Fullname:** group control

**Attribute Description:** This attribute indicates if a user with this ACSR feature is allowed to modify the ACSR group status via a dialed code (CORC). acsr_grp.grp_active defines the group status. It can take a value DBYES or DBNO

```
DBYES   /* group control allowed */
DBNO    /* group control NOT allowed */
```

**Attribute: acsr_group**

**Fullname:** ACSR group name

**Attribute Description:** The ACSR group name default parameter is used to specify the initial ACSR group that a user is associated with when assigned this ACSR feature. The ACSR User relation is populated with the ACSR group ID corresponding to the ACSR group name: RLacsr_usr.group_id. The ACSR group association specified by this default parameter can always be overridden.

**Attribute: pin_req**

**Fullname:** Personal Identification Number Required

**Attribute Description:** The PIN required default parameter is used to specify the initial setting for this field in the ACSR user relation when a user is assigned this ACSR feature. Specifically, the field populated is RLacsr_usr.pin_req. The value specified by this default parameter can always be overridden.

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# ACSR_USR

## 1. Description

This relation provides the Automatic Customer Station Rearrangement (ACSR) user parameter data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65535 |
| expected number of tuples | 3440 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | ACSR |
| relation type | DBSTATIC |
| ks keystore | AUTO |

## 3. Field Layout

```
ACSR_USR    relid = 1129  DBSTATIC   DBACC_HASH  DBPRAM    LP      ACSR

    feat_id     DMMCC_FID    (ushort)
    acsr_gpid   DMGRPID      (ushort: 10)
 (a) pin_req    DMBOOL       (enum: 1)
 (b) acsr_inh   DMBOOL       (enum: 1)
 (c) ama_rec    DMBOOL       (enum: 1)
 (d) grp_cntrl  DMBOOL       (enum: 1)
    locdn       DMLOCDN      (struct)     <--- key, compacted
        noc         DMNOC        (ushort: 14)
        digits      DMLOCDIG     (array [ 4 ] of char )
    bill_dn     DMDN         (struct)     <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )

           User Tuple Layout      ACSR_USR
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                   | | | | |   |
 0 |            feat_id            |     acsr_gpid     |a|b|c|d|***|
   |===============+============ locdn ============+===============|
   |   |                           |                               |
 4 |***|            noc            |             digits            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
 8 |             digits            |*******************************|
   |===============+=========== bill_dn ===========+===============|
   |       |       |                                               |
12 | digcnt|*******|                      dn                       |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
16 |                               dn                              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
20 |                               dn                              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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```
   |                                                               |
24 |                              dn                               |
   |===============+===============+===============+===============|
                               ( 28 bytes )

    feat_id     DMMCC_FID    (ushort)
    acsr_gpid   DMGRPID      (ushort: 10)
(a) pin_req     DMBOOL       (enum: 1)
(b) acsr_inh    DMBOOL       (enum: 1)
(c) ama_rec     DMBOOL       (enum: 1)
(d) grp_cntrl   DMBOOL       (enum: 1)
    locdn       DMKLOCDN     (struct)     <--- key, compacted
        noc         DMNOC        (ushort: 14)
        index       DMUNS14      (ushort: 14)
    bill_dn     DMCDN        (struct)     <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)

      Compacted Tuple Layout   ACSR_USR
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                   | | | | |   |
 0 |            feat_id            |     acsr_gpid     |a|b|c|d|***|
   |===============+============ locdn ============+===============|
   |   |                           |                           |   |
 4 |***|            noc            |           index           |***|
   |===============+=========== bill_dn ===========+===============|
   |       |       |       |       |       |       |       |       |
 8 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
12 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
   |===============+===============+===============+===============|
   |                                                               |
16 |***************************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |***************************************************************|
   |---------------+---------------+---------------+---------------|
```

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```
   |                                                               |
24 |***************************************************************|
   |--------------+--------------+--------------+--------------|
                            ( 28 bytes )

    feat_id     DMMCC_FID    (ushort)
    acsr_gpid   DMGRPID      (ushort: 10)
(a) pin_req     DMBOOL       (enum: 1)
(b) acsr_inh    DMBOOL       (enum: 1)
(c) ama_rec     DMBOOL       (enum: 1)
(d) grp_cntrl   DMBOOL       (enum: 1)
    locdn       DMKLOCDN     (struct)     <--- key, compacted
        noc         DMNOC        (ushort: 14)
        index       DMUNS14      (ushort: 14)
    bill_dn     DMCDN        (struct)     <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)

       Stored Tuple Layout     ACSR_USR
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |--------------+--------------+--------------+--------------|
   |                              |                  | | | | |   |
 0 |            feat_id           |     acsr_gpid    |a|b|c|d|***|
   |==============+============ locdn ============+==============|
   |   |                          |                          |   |
 4 |***|            noc           |           index          |***|
   |==============+========== bill_dn ==========+==============|
   |       |       |       |      |       |      |       |      |
 8 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
   |-------+-------+-------+-------+-------+-------+-------+-------|
   |       |       |       |      |       |      |       |      |
12 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
   |==============+==============+==============+==============|
                           ( 16 bytes )
```

## 4. Population Rules for RLacsr_usr

### Relation Description

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Automatic customer station rearrangement (ACSR) user relation

This relation provides the ACSR user parameter values. The ACSR feature may be part of a business and residential customer service (BRCS) feature group (BFG).

**Attribute: locdn**

**Fullname:** Local directory number

**Attribute Description:** This attribute consists of the Normalized Office Code (NOC) and four directory number digits.

**Attribute: locdn.noc**

**Fullname:** Normalized office code

**Attribute Description:** Normalized office code

**Attribute: locdn.digits**

**Fullname:** Digits

**Attribute Description:** The last 4 digits of the local directory number

**Attribute: feat_id**

**Fullname:** Feature identification number

**Attribute Description:** A BRCS constructed feature ID consists of a modular feature type and a unique identifier. For an ACSR feature, the modular feature type equals MFACSR which is an enumeration of DMMFTYPE. The feature ID must have a class of FACBRCS and a subclass of SCL_FEAT.

**Attribute: acsr_gpid**

**Fullname:** ACSR group ID

**Attribute Description:** The ACSR group ID associates a user with an ACSR feature to an ACSR group.

**Attribute: pin_req**

**Fullname:** Personal identification number (PIN) required

**Attribute Description:** The PIN required attribute specifies whether the user is required to enter a PIN upon invocation of the ACSR feature. It can take a value DBYES or DBNO:

DBYES - - PIN equals required.

DBNO - - PIN equals not required.

**Attribute: acsr_inh**

**Fullname:** ACSR inhibition per LOCDN

**Attribute Description:** This indicates whether ACSR is inhibited for this user.

**Attribute: ama_rec**

**Fullname:** Automatic Message Accounting (AMA) billing recorded indicator

**Attribute Description:** This attribute indicates if an AMA billing record should be generated for each successful ACSR move invoked by this user. The generation of an AMA record for an ACSR

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user provides usage sensitive billing. By not generating an AMA record, flat rate billing applies.

**Attribute: grp_cntrl**

**Fullname:** Group control

**Attribute Description:** This attribute indicates if this ACSR user is allowed to modify the ACSR group status via a dialed code (Customer Oriented Recent Change (CORC)). The acsr_grp.grp_active attribute defines the group status.

**Attribute: bill_dn**

**Fullname:** Billing Directory Number (DN)

**Attribute Description:** This attribute indicates the billing DN to be billed for usage sensitive ACSR moves.

**Attribute: bill_dn.digcnt**

**Fullname:** Billing directory number digit count

**Attribute Description:** Keeps the count of digits used by the billing DN.

**Attribute: bill_dn.dn**

**Fullname:** Billing directory number DN

**Attribute Description:** This attribute indicates the digitstring of the billing DN.

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# ACT_G

## 1. Description

Storage relation for ACTION attributes valid dialed code actions associated with feature (used in RLfacftdsc.G).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2048 |
| expected tuples | 100 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTORAGE |
| head table size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| index length | 0 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel reverse index | rlACT_I |

## 3. Field Layout

```
ACT_G       relid = 1669  DBSTORAGE  DBACC_GK    DBPRAM    LP      RCMAP

     gkACT_G     DMGK14       (ulong: 14)     <--- key, not stored
     action1     DMMCACTN     (enum: 9)
     action2     DMMCACTN     (enum: 9)
     action3     DMMCACTN     (enum: 9)
     action4     DMMCACTN     (enum: 9)
     action5     DMMCACTN     (enum: 9)
     action6     DMMCACTN     (enum: 9)
     action7     DMMCACTN     (enum: 9)
     action8     DMMCACTN     (enum: 9)
     action9     DMMCACTN     (enum: 9)
     action10    DMMCACTN     (enum: 9)
     action11    DMMCACTN     (enum: 9)
     action12    DMMCACTN     (enum: 9)
     action13    DMMCACTN     (enum: 9)
     action14    DMMCACTN     (enum: 9)
     action15    DMMCACTN     (enum: 9)
     action16    DMMCACTN     (enum: 9)

         User and Compacted Tuple Layout  ACT_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkACT_G              |
    |---------------+---------------+---------------+---------------|
    |                 |               |                 |             |
  4 |     action1     |*************|     action2     |*************|
    |---------------+---------------+---------------+---------------|
    |                 |             |                 |             |
```

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```
 8 |     action3     |*************|     action4     |*************|
   |-----------------+---------------+-----------------+---------------|
   |                 |             |                 |             |
12 |     action5     |*************|     action6     |*************|
   |-----------------+---------------+-----------------+---------------|
   |                 |             |                 |             |
16 |     action7     |*************|     action8     |*************|
   |-----------------+---------------+-----------------+---------------|
   |                 |             |                 |             |
20 |     action9     |*************|     action10    |*************|
   |-----------------+---------------+-----------------+---------------|
   |                 |             |                 |             |
24 |     action11    |*************|     action12    |*************|
   |-----------------+---------------+-----------------+---------------|
   |                 |             |                 |             |
28 |     action13    |*************|     action14    |*************|
   |-----------------+---------------+-----------------+---------------|
   |                 |             |                 |             |
32 |     action15    |*************|     action16    |*************|
   |-----------------+---------------+-----------------+---------------|
                              ( 36 bytes )
```

```
    action1     DMMCACTN     (enum: 9)
    action2     DMMCACTN     (enum: 9)
    action3     DMMCACTN     (enum: 9)
    action4     DMMCACTN     (enum: 9)
    action5     DMMCACTN     (enum: 9)
    action6     DMMCACTN     (enum: 9)
    action7     DMMCACTN     (enum: 9)
    action8     DMMCACTN     (enum: 9)
    action9     DMMCACTN     (enum: 9)
    action10    DMMCACTN     (enum: 9)
    action11    DMMCACTN     (enum: 9)
    action12    DMMCACTN     (enum: 9)
    action13    DMMCACTN     (enum: 9)
    action14    DMMCACTN     (enum: 9)
    action15    DMMCACTN     (enum: 9)
    action16    DMMCACTN     (enum: 9)
```

```
          Stored Tuple Layout    ACT_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                          GK LINK FIELD                        |
   |---------------+---------------+---------------+---------------|
   |                 |             |                 |             |
 4 |     action1     |*************|     action2     |*************|
   |-----------------+---------------+-----------------+---------------|
   |                 |             |                 |             |
 8 |     action3     |*************|     action4     |*************|
   |-----------------+---------------+-----------------+---------------|
   |                 |             |                 |             |
12 |     action5     |*************|     action6     |*************|
```

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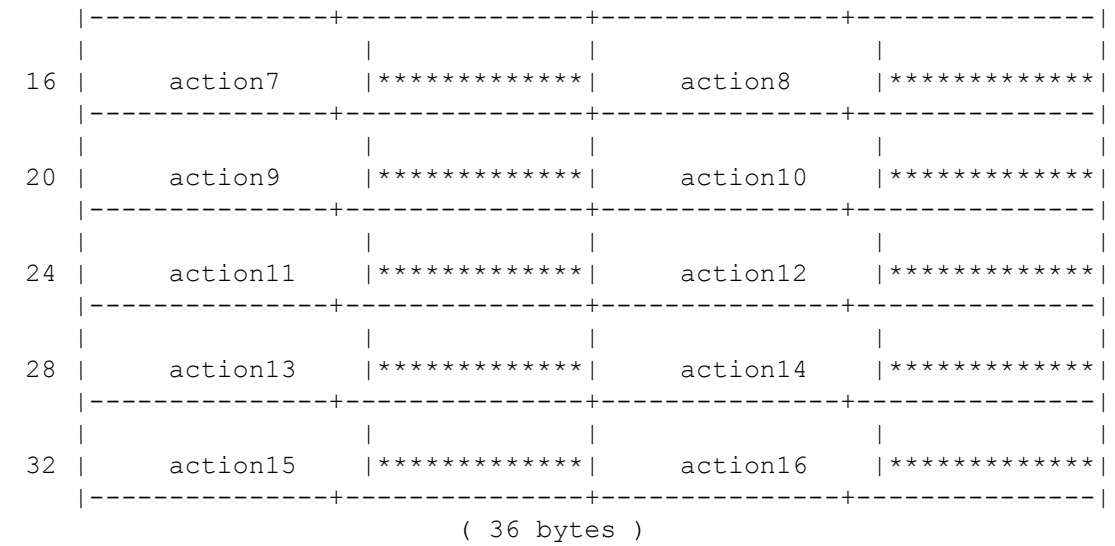


## 4. Population Rules for RLact_g

There are no population rules for this relation.

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# ACT_SPR

## 1. Description

This relation is used to store active sparing info for (R)ISLU line cards (max of 2 spares/ISLU) and (R)ISLU2 line circuits (max of 4 which can consist of a mixture of local and remote line group spares).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | SMrcspare |
| insert trigger | DBNO |
| update trigger | DBYES |
| delete trigger | DBNO |
| end of transaction trigger | DBYES |
| padding indicator | unpadded |
| permutation type | un_perm |

## 3. Field Layout

```
ACT_SPR     relid = 761   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL

     luno        DMUCHAR      (uchar) <--- key
     sprrec0     DMSPR_REC    (struct)
         sport       DMCIRCUIT    (ushort)
         stype       DMCKTTYPE    (enum)
         fport       DMCIRCUIT    (ushort)
         ftype       DMCKTTYPE    (enum)
     sprrec1     DMSPR_REC    (struct)
         sport       DMCIRCUIT    (ushort)
         stype       DMCKTTYPE    (enum)
         fport       DMCIRCUIT    (ushort)
         ftype       DMCKTTYPE    (enum)
     sprrec2     DMSPR_REC    (struct)
         sport       DMCIRCUIT    (ushort)
         stype       DMCKTTYPE    (enum)
         fport       DMCIRCUIT    (ushort)
         ftype       DMCKTTYPE    (enum)
     sprrec3     DMSPR_REC    (struct)
         sport       DMCIRCUIT    (ushort)
         stype       DMCKTTYPE    (enum)
         fport       DMCIRCUIT    (ushort)
         ftype       DMCKTTYPE    (enum)
         User, Compacted and Stored Tuple Layout    ACT_SPR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |      luno     |***********************************************|
    |===============+=========== sprrec0 ===========+===============|
    |                               |                               |
  4 |             sport             |             stype             |
    |---------------+---------------+---------------+---------------|
```

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```
    |                               |                               |
  8 |             fport             |             ftype             |
    |===============+=========== sprrec1 ==========+===============|
    |                               |                               |
 12 |             sport             |             stype             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 16 |             fport             |             ftype             |
    |===============+=========== sprrec2 ==========+===============|
    |                               |                               |
 20 |             sport             |             stype             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 24 |             fport             |             ftype             |
    |===============+=========== sprrec3 ==========+===============|
    |                               |                               |
 28 |             sport             |             stype             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 32 |             fport             |             ftype             |
    |===============+===============+===============+===============|
                             ( 36 bytes )

domain alACT_SPR  struct  (2 sub-attributes)
        luno        unsigned char (uchar)
        sprrec      .2.fake      (array [ 4 ] of .1fake )
            sport       unsigned short (ushort)
            stype       .0.fake      (enum)
            fport       unsigned short (ushort)
            ftype       .1.fake      (enum)
                    Structure Layout     alACT_SPR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |      luno     |***********************************************|
    |===============+========== sprrec[0] ==========+===============|
    |                               |                               |
  4 |             sport             |             stype             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |             fport             |             ftype             |
    |===============+========== sprrec[1] ==========+===============|
    |                               |                               |
 12 |             sport             |             stype             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 16 |             fport             |             ftype             |
    |===============+========== sprrec[2] ==========+===============|
    |                               |                               |
 20 |             sport             |             stype             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 24 |             fport             |             ftype             |
```

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```
    |===============+========== sprrec[3] ==========+===============|
    |                               |                               |
 28 |             sport             |             stype             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 32 |             fport             |             ftype             |
    |===============+===============+===============+===============|
                              ( 36 bytes )
```

## 4. Population rules for RLact_spr

### Relation Description

Relation used to store sparing information for active spare line cards for (R)ISLU, and line circuits for ISLU2.

This relation defines the connection from a faulty integrated services line unit (ISLU) or remote ISLU (RISLU) line card, to a spare ISLU or RISLU line card, respectively.

This relation also defines the connection from a faulty integrated services line unit 2 (ISLU2) line circuit, to a spare ISLU2 line circuit.

The relation is filled in by a switch initiated recent change operation which is part of the spare activation. At office-dependent database (ODD) population time there are no active spare connections. Therefore, there should be one tuple per ISLU(2) or RISLU with all of the attributes set to null values as follows:

**Attribute:**
luno
**Fullname:**
Line unit number
**Attribute Description:**
This is the key to the relation and is set to the unit number of the ISLU(2) or RISLU. There should be one tuple per ISLU(2) or RISLU.

**Attribute:**
sprrec[*]
**Fullname:**
Structure contains sparing information
**Attribute Description:**
This is a structure domain DMspr_rec. The fields of the domain are set as follow:

```
sport = 0               null port
stype = PCNULLCKT       null ckttype
fport = 0               null port
ftype = PCNULLCKT       null ckttype
```

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**Attribute:**
sprrec[*].sport
**Fullname:**
Sport
**Attribute Description:**
Store sparing information.

**Attribute:**
sprrec[*].stype
**Fullname:**
stype
**Attribute Description:**
Store sparing information.

**Attribute:**
sprrec[*].fport
**Fullname:**
fport
**Attribute Description:**
Store sparing information.

**Attribute:**
sprrec[*].ftype
**Fullname:**
ftype
**Attribute Description:**
Store sparing information.

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# ACTBFG

## 1. Description

Used to keep track of unresolved/active BFG updates.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_LIN |
| memory type | DBDISK |
| distribution | DO |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 2048 |

## 3. Field Layout

```
ACTBFG      relid = 1054  DBSTATIC   DBACC_LIN   DBDISK    DO      DDBM

     actbfgid    DMRCBFGID    (ushort: 12)     <--- key
 (a) chgserv     DMBOOL       (enum: 1)
     srcbfgid    DMRCBFGID    (ushort: 12)
     dstbfg_1    DMRCBFGID    (ushort: 12)
     dstbfg_2    DMRCBFGID    (ushort: 12)
     dstbfg_3    DMRCBFGID    (ushort: 12)
     dstbfg_4    DMRCBFGID    (ushort: 12)
     dstbfg_5    DMRCBFGID    (ushort: 12)
     dstbfg_6    DMRCBFGID    (ushort: 12)
     dstbfg_7    DMRCBFGID    (ushort: 12)
     dstbfg_8    DMRCBFGID    (ushort: 12)
     dstbfg_9    DMRCBFGID    (ushort: 12)
     dstbfg10    DMRCBFGID    (ushort: 12)
     dstbfg11    DMRCBFGID    (ushort: 12)
     dstbfg12    DMRCBFGID    (ushort: 12)
     dstbfg13    DMRCBFGID    (ushort: 12)
     dstbfg14    DMRCBFGID    (ushort: 12)
     dstbfg15    DMRCBFGID    (ushort: 12)
     dstbfg16    DMRCBFGID    (ushort: 12)
     chgcnt      DMFACUSCNT   (ulong)

         User, Compacted and Stored Tuple Layout ACTBFG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                         | |     |                         |       |
  0 |         actbfgid        |a|*****|         srcbfgid        |*******|
    |---------------+---------------+---------------+---------------|
    |                         |       |                         |       |
  4 |         dstbfg_1        |*******|         dstbfg_2        |*******|
    |---------------+---------------+---------------+---------------|
    |                         |       |                         |       |
  8 |         dstbfg_3        |*******|         dstbfg_4        |*******|
    |---------------+---------------+---------------+---------------|
    |                         |       |                         |       |
 12 |         dstbfg_5        |*******|         dstbfg_6        |*******|
```

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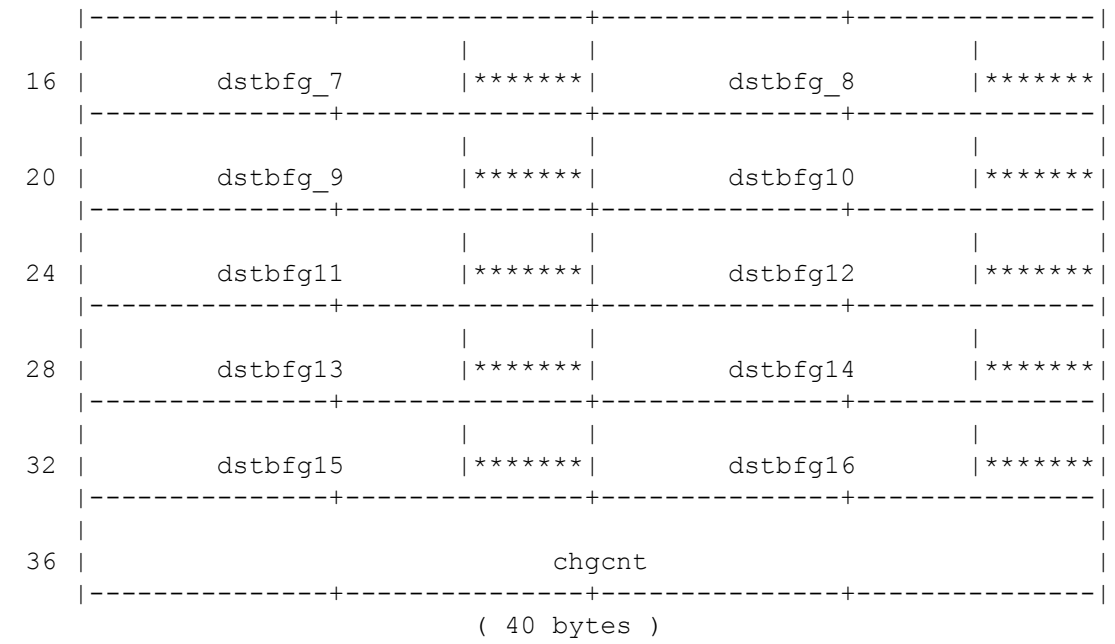


## 4. Population Rules for RLactbfg

**Relation Description**

ACTive BFG. rlACTBFG controls the design limit that only one BFG update or one BFG Administration view instance can be running/active at one time.

This relation is only used for BFG Update and BFG Administration control. Before modifications, consult the owner of the BFG Administration (RBFGADMIN) or BFG Construction (RBFGCONS) view.

**Attribute: actbfgid**

**Fullname:** BFG ID of the ACTIVE BFG - 'ACTBFG' BFG

**Attribute Description:** This value is zero, unless an unresolved update of BFG exists. During BFG update or administration this value represents the BFG being processed - the BFG ID of 'ACTBFG' which can be found in rlFACNAME. If the update was initiated from RBFGCONS then (actbfgid == srcbfgid). Otherwise, the update was initiated from RBFGADMIN and (actbfgid != srcbfgid).

**Attribute: srcbfgid**

**Fullname:** BFG ID of the Source BFG

**Attribute Description:** This value represents the BFG ID of the BFG being updated the BFG being administered to some other BFG, from the RBFGADMIN view. When the Source BFG key on the RBFGADMIN view is 'SETUP', this 'srcbfgid' is set to 0. When (srcbfgid equals actbfgid), then the update was initiated from the BFG Construction view (RBFGCONS), otherwise the BFG update was initiated from the BFG Administration view (RBFGADMIN).

**Attribute: dstbfg[*]**

**Fullname:** Destination BFG ID(s) (1 thru 9)

**Attribute Description:** This array contains the list of BFG IDs that are involved in the update. For entry 1, it may be a Selected, Base or Residential BFG. When entry 1 is the only Destination BFG, then it must exist. Entries 2 thru 9 (inclusive), may be either a Selected or Residential BFG. Entries 10 thru 16 must be only Residential BFGs. For entries 2 thru 16, the BFG may not necessarily exist

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due to a deletion from RBFGCONS during the RBFGADMIN update process. For both 'SETUP' and the BFG Removal operation Destination BFG IDs 1 thru 16 are 0. For the BFG Removal operation, 'NULL' is entered as the TARGET BFG from view RBFGADMIN - 12.8. In the BFG Removal case, the SOURCE BFG is being unassigned and it's associated features are being removed along with it if the ALLOW SERVICE CHNG field is set to 'Y' on view 12.8. If the ALLOW SERVICE CHNG field is set to 'N', then the features in the SOURCE BFG will be stripped out and assigned to the line (but the SOURCE BFG is still removed).

**Attribute: dstbfg[*]**

**Fullname:** Destination BFG IDs (10 thru 16)

**Attribute Description:** This array contains the list of BFG IDs (10 - 16) that are involved in the update. Entries 10 thru 16 must be only Residential BFGs. Entries 2 thru 16 need not exist due to a deletion from RBFGCONS during the RBFGADMIN update process.

**Attribute: chgserv**

**Fullname:** Change Of Service, Yes or No

**Attribute Description:** Change Of Service is always YES when the BFG Update is taking place from RBFGCONS, otherwise it may be YES or NO.

**Attribute: chgcnt**

**Fullname:** Change Count

**Attribute Description:** This count is used during an update or administration processing to assure no other BFG is being updated or administered.

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# AD1B_IDP

## 1. Description

Individualized dialing plan one-digit abbreviated dial list virtual update relation, stores up to 14 digits per tuple.

The tree diagram Figure 1 depicts the stored structure of virtual relation AD1B_IDP.

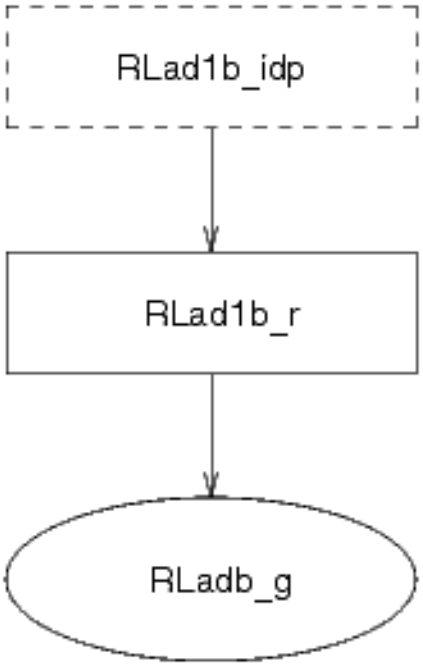


**Figure 1 Stored Structure of Virtual Relation AD1B_IDP**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FP |
| relation type | DBSTATIC |
| corcable | DBYES |
| permutation type | perm |

## 3. Field Layout

```
AD1B_IDP    relid = 967   DBSTATIC   DBACC_OPV   DBNOTODD  FP      NULL
     storedseq   DMDN15       (struct)     <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
     ad1_list_id  DMIDP_ADID   (ushort)     <--- key
     adcode      DMEDIGIT     (char)     <--- key, compacted

            User Tuple Layout      AD1B_IDP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+========== storedseq ==========+===============|
    |       |       |                                               |
  0 | digcnt|*******|                       dn                      |
    | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
```

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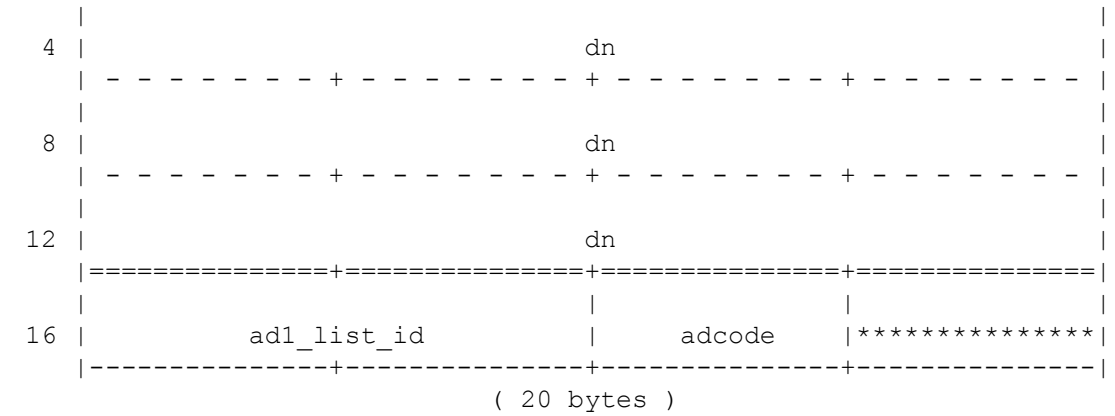
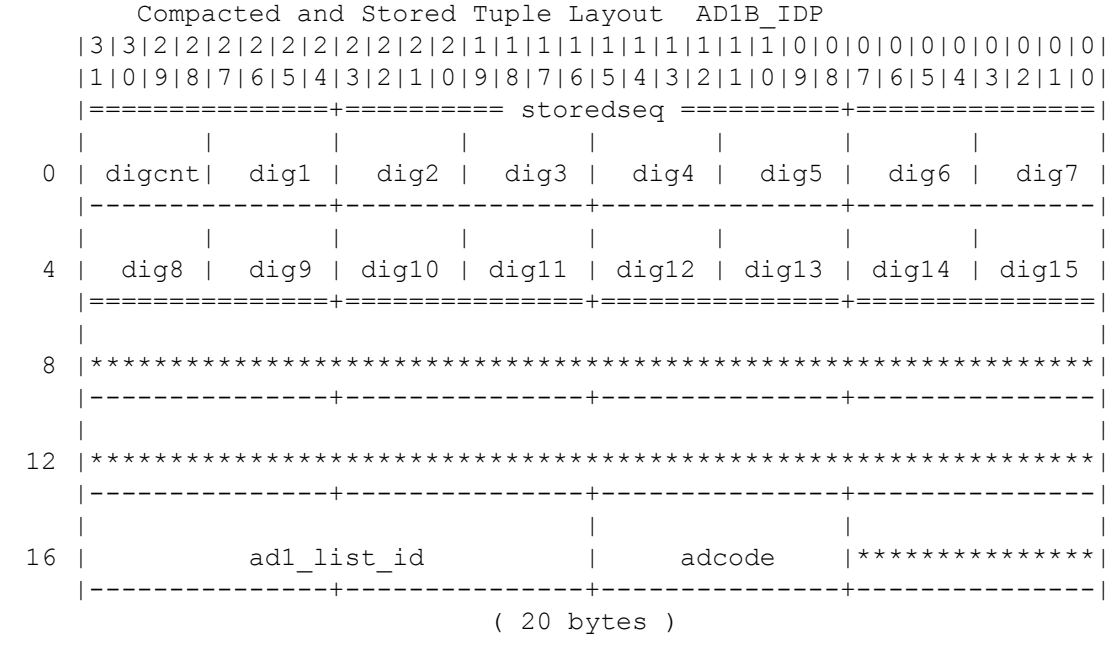



```
    storedseq   DMCDN15      (struct)     <--- compacted
    digcnt      DMDIGCNT     (uchar: 4)
    dig1        DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
    dig8        DMUNS4       (ushort: 4)
    dig9        DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
    dig11       DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
    dig13       DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
ad1_list_id  DMIDP_ADID   (ushort)     <--- key
adcode      DMEDIGIT     (char)     <--- key, compacted
```



## 4. Population Rules for RLad1b_idp

### Relation Description

Individualized dialing plan one-digit abbreviated dial list basic relation, stores up to 14 digits per tuple.

**Attribute: ad1_list_id**

**Fullname:** 1-digit ad list ID

**Attribute Description:** One-digit unshared abbreviated dial list ID.

Dependencies: Assigned from the class and subclass master tuple in RLsmfacids. Generally this will be the last-used attribute in the master tuple unless there are tuples on the reclaim list (indicated by a non-zero value in the reclaimed field in the master tuple).

**Attribute: adcode**

**Fullname:** 1-digit AD code

**Attribute Description:** A one-digit AD code for the given list; it is an extended digit (0-9, *, and #).

**Attribute: storedseq**

**Fullname:** Stored digits

**Attribute Description:** Stored extended digit sequence.

**Attribute: storedseq.digcnt**

**Fullname:** Digit count

**Attribute Description:** The number of digits stored in this tuple as well as a flag to indicate that an extended tuple was necessary to accommodate all digits. If the value is between 0 and 14 this means the digcnt refects the total number of digits associated with the abbreviated dial code. A digcnt which equals 15 acts as a flag to indicate the following:

(1) There are more than 14 digits associated with this tuple.
(2) Ten digits are stored in this tuple and are located in the first ten digit positions.
(3) No value is stored in the eleventh digit position.
(4) The digits in the positions 12-15 are an encoded key to the tuple in RLad1e_idp which contain the rest of the digits associated with this ad list and ad code. The key is encoded in the following way: If the key to the RLad1e_idp tuple equals 0x1234 then the digits in the 12-15 position would be

```
|digit 12 |  digit 13 | digit 14 | digit 15|
|---------|-----------|----------|---------|
|         |           |          |         |
|   '1'   |    '2'    |   '3'    |   '4'   |
|         |           |          |         |
|---------|-----------|----------|---------|
```

Where '1' represents the character 1 (0x31). The 12th digit represents the 4 high order bits of the key. The 13th digit represents the next 4 bits of the key, the 14th digit represents the next 4 bits of the key and the 15th digit represents the 4 low order bits of the key. When hex digits 0xa, 0xb, 0xc, 0xd, 0xe or 0xf are part of the key a special encoding is done in the associated digit position as follows.

```
0xa is represented by '*'
0xb is represented by '#'
```

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```
0xc is represented by 'F'
0xd is represented by 'O'
0xe is represented by 'I'
0xf is represented by 'P'
```

Using this encoding, if the key to RLad1e_idp equals 0xa9be then the values in the 12-15 digit positions would be:

```
|digit 12 |  digit 13 | digit 14 | digit 15|
|---------|-----------|----------|---------|
|         |           |          |         |
|   '*'   |    '9'    |   '#'    |   'I'   |
|         |           |          |         |
|---------|-----------|----------|---------|
```

**Attribute: storedseq.dn**

**Fullname:** Directory number

**Attribute Description:** The stored sequence invoked by the AD code. Range of values: digits: an array of up to 15 extended digits ['0'-'9','#','*', and the following ASCII characters: O(0x4f), F(0x46), I(0x49), and P(0x50)]. Default value: 0 (null); Dependencies: If the digit count is 0-14 there are no dependencies. If the digit count is 15 then the digits in the 12-15 positions represent a key to a tuple in RLad1e_idp which is sequentially derived from the lastused or reclaimid field in the 1-digit extended master class tuple in relation RLsmfacids.

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# AD1B_R

## 1. Description

Individualized dialing plan 1-digit abbrev dial list basic relation, stores up to 14 digits per tuple. This is a root storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 230400 |
| expected tuples in relation | 600 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTORAGE |
| density | 84 |
| l1 length of subkey 1 | 1 |
| p1 position of subkey 1 | 20 |
| l2 length of subkey 2 | 16 |
| p2 position of subkey 2 | 0 |
| l3 length of subkey3 | 3 |
| p3 position of subkey 3 | 21 |
| ks key store | AUTO |
| cluster | 8 |
| ignore key bits | 16-19 |

## 3. Field Layout

```
AD1B_R      relid = 1613  DBSTORAGE  DBACC_CIND  DBPRAM    FP      NULL

    ad1_list_id  DMIDP_ADID   (ushort)     <--- key, not stored
    adcode       DMEDIGIT     (char)     <--- key, not stored, compacted
    dnlist       DMGK14       (ulong: 14)

            User Tuple Layout    AD1B_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |               |               |
  0 |          ad1_list_id            |     adcode    |***************|
    |---------------+---------------+---------------+---------------|
    |                               |                                 |
  4 |           dnlist              |*********************************|
    |---------------+---------------+---------------+---------------|
                                  ( 8 bytes )

     ad1_list_id  DMIDP_ADID   (ushort)     <--- key, not stored
     adcode       DMEDIGIT     (char)     <--- key, not stored, compacted
     dnlist       DMGK14       (ulong: 14)

          Compacted Tuple Layout     AD1B_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |               |               |
  0 |          ad1_list_id            |     adcode    |***************|
    |---------------+---------------+---------------+---------------|
    |                               |                                 |
```

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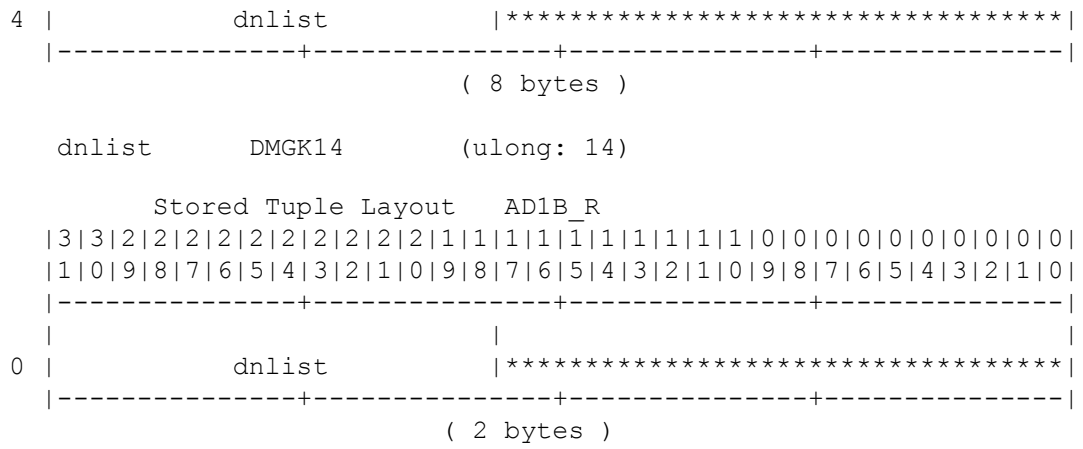


## 4. Population Rules for RLad1b_r

There are no population rules for this relation.

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# AD1E_IDP

## 1. Description

Individualized dialing plan extended digit relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65535 |
| expected tuples in relation | 32 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | AUTO |
| density | 100 |
| corcable | DBYES |
| permutation type | perm |

## 3. Field Layout

```
AD1E_IDP    relid = 973   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL

     adxe_idp_id  DMIDP_ADID   (ushort)     <--- key, not stored
     digits      DMAD22       (struct)
         adig22      DMAD_BCD     (array [ 12 ] of char )

         User and Compacted Tuple Layout   AD1E_IDP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |          adxe_idp_id          |*******************************|
    |===============+===========  digits ===========+===============|
    |                                                               |
  4 |                               adig22                          |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
  8 |                               adig22                          |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 12 |                               adig22                          |
    |===============+===============+===============+===============|
                               ( 16 bytes )

     digits      DMAD22       (struct)
         adig22      DMAD_BCD     (array [ 12 ] of char )

           Stored Tuple Layout     AD1E_IDP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+===========  digits ===========+===============|
    |                                                               |
  0 |                               adig22                          |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
```

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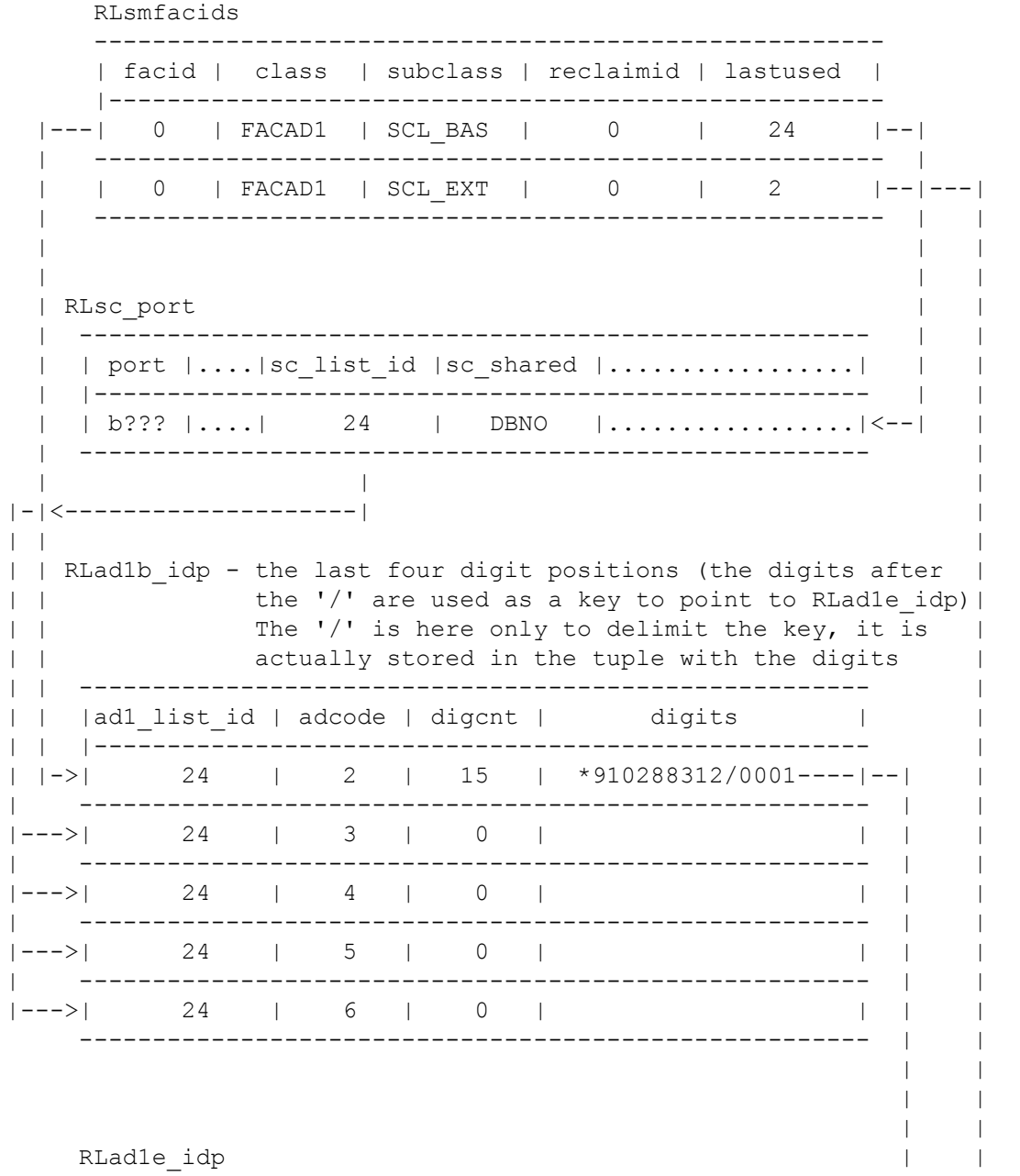
```
  4 |                              adig22                              |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                  |
  8 |                              adig22                              |
    |================+================+================+================|
                                ( 12 bytes )
```

## 4. Population Rules for RLad1e_idp

### Relation Description

One-digit speed calling extended digit relation.

Graphical dependency linkage of data for RLad1e_idp.

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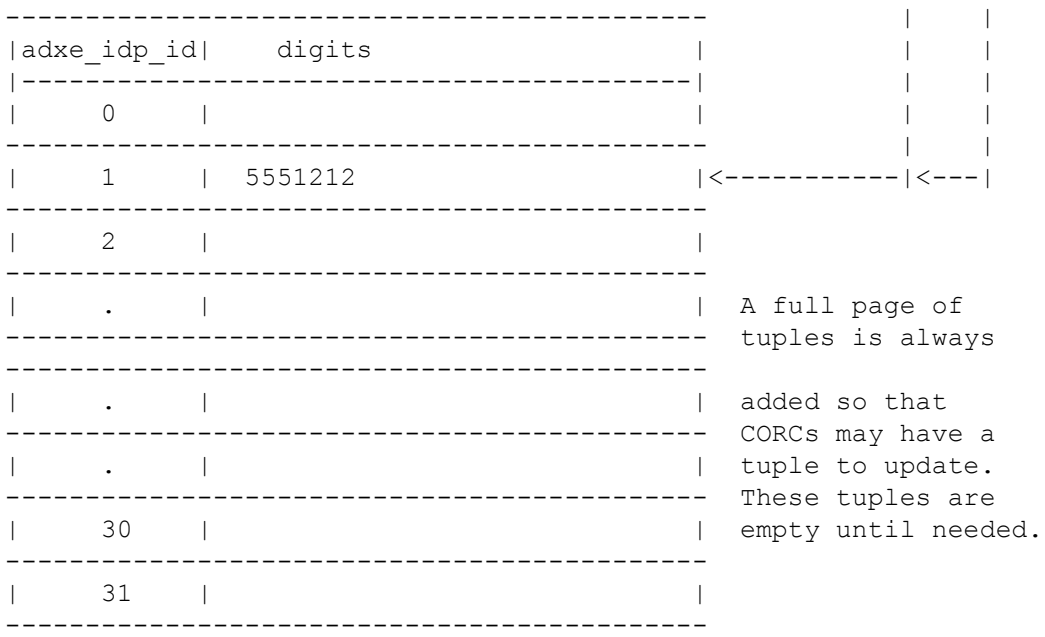


**Attribute: adxe_idp_id**

**Fullname:** extended digit abbreviated dial list ID

**Attribute Description:** This key is stored in a tuple in RLad1b_idp. See poprules for RLad1b_idp for details. Even though the key 0 is populated it is never used.

Dependencies: Assigned sequentially from the class master extended tuple in RLsmfacids (key => facid=0, class=FACAD1, subclass=SCL_EXT).

**Attribute: digits**

**Fullname:** stored digits

**Attribute Description:** This attribute indicates the stored digits.

Range of values: an array of up to 22 extended digits('0'-'9','#','*', and the following ASCII characters: O(0x4f), F(0x46), I(0x49), and P(0x50)).

These digits will be populated with the BCD I/O type. This I/O type has been name TTBCD.

ODA: The length of a structure of this I/O type does not imply the number of digits that can be stored in it. The correct number of storable digits IS INDEED 22.

RECENT CHANGE: The algorithm used to determine the number of digits storable in the structure can be found in hdr/db/DBbcdmacs.h

**Attribute: digits.adig22**

**Fullname:** digits

**Attribute Description:** An array of 22 BCD digits followed by the digit count.

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# AD1S_G

## 1. Description

Individualized dialing plan 1-digit abbrev dial list shared. This is a child storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 40000 |
| expected tuples in relation | 1000 |
| access type | DBACC_GK |
| application | RCMAP |
| distribution | LPFG |
| memory type | DBPRAM |
| relation type | DBSTORAGE |
| head table size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| index length | 5 |
| i2 index into intermediate page | 7 |
| ks key stored | DBNO |
| foldtype | DBGC31 |
| permutation type | unperm |
| gkidxrel GK-index relation | rlADS1_I |

## 3. Field Layout

```
AD1S_G      relid = 1617  DBSTORAGE  DBACC_GK    DBPRAM    LPFG    RCMAP

     gkAD1S_G    DMGK16       (ulong: 16)     <--- key, not stored
     digcnt      DMDCNT32     (ushort: 6)
 (a) tgsr_ov     DMBOOL       (enum: 1)
     long_dn     DMGK14       (ulong: 14)
     edn32a      DMBCD8       (ulong)
     edn32b      DMBCD8       (ulong)

         User and Compacted Tuple Layout     AD1S_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |*******************************|            gkAD1S_G           |
    |---------------+---------------+---------------+---------------|
    |           | |                               |               |
  4 |   digcnt  |a|          long_dn              |***************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                            edn32a                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                            edn32b                             |
    |---------------+---------------+---------------+---------------|
                             ( 16 bytes )

     digcnt      DMDCNT32     (ushort: 6)
 (a) tgsr_ov     DMBOOL       (enum: 1)
     long_dn     DMGK14       (ulong: 14)
```

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```
     edn32a      DMBCD8       (ulong)
     edn32b      DMBCD8       (ulong)

           Stored Tuple Layout   AD1S_G
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                          GK LINK FIELD                        |
    |---------------+---------------+---------------+---------------|
    |           | |                               |                 |
  4 |   digcnt  |a|          long_dn              |*****************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                              edn32a                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                              edn32b                           |
    |---------------+---------------+---------------+---------------|
( 16 bytes )
```

## 4. Population Rules for RLad1s_g

There are no population rules for this relation.

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# AD1S_IDP

## 1. Description

This relation gives shared Individualized Dialing Plan (IDP), 1-digit abbrev dial list, information associated with a (name, class, subclass) combination.

This is a virtual update relation. Figure 1 depicts the stored structure of virtual relation AD1S_IDP.

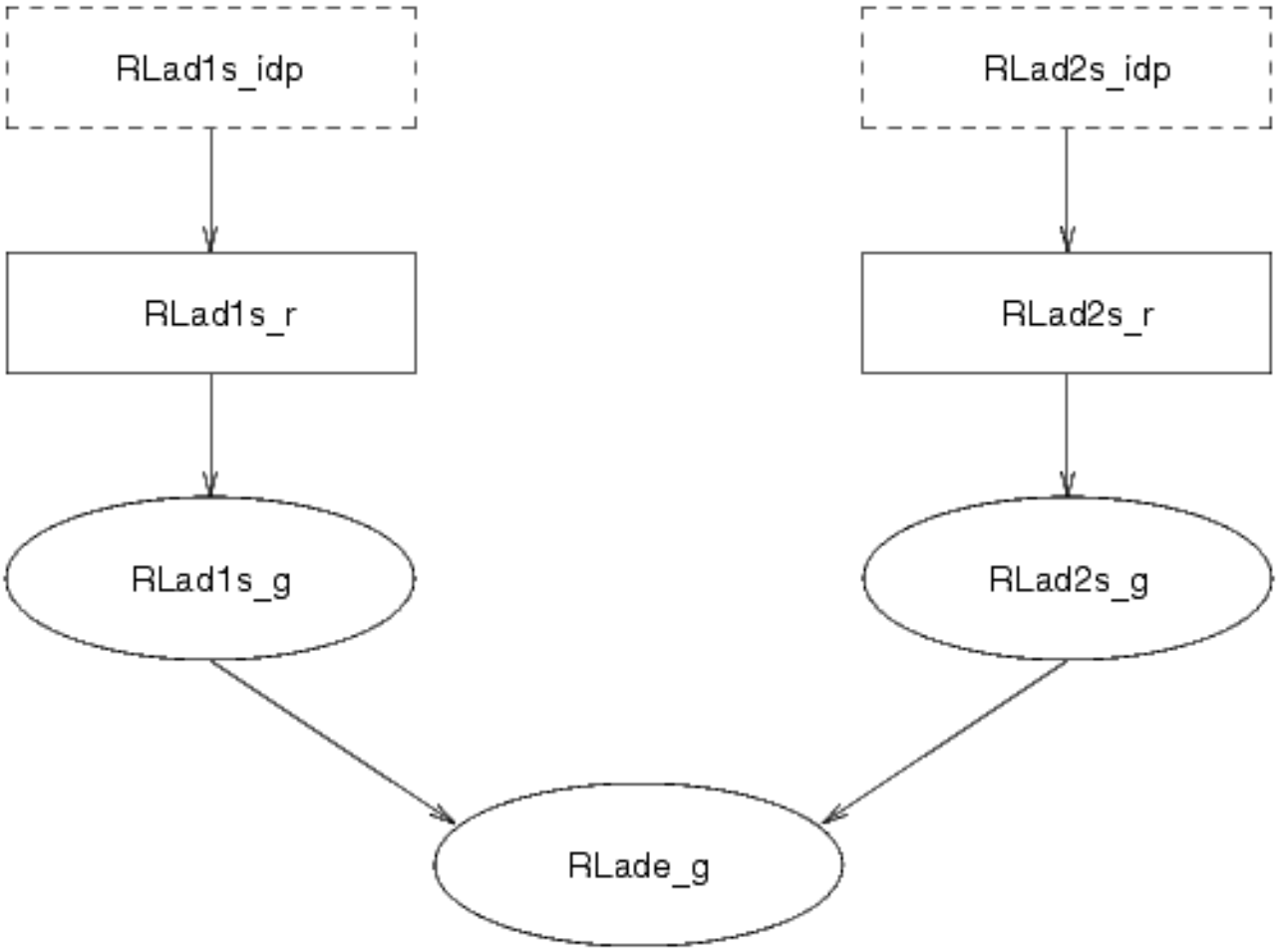


**Figure 1 Stored Structure of Virtual Relation AD1S_IDP**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| corcable | DBYES |
| permutation type | perm |

## 3. Field Layout

```
AD1S_IDP    relid = 461   DBSTATIC   DBACC_OPV   DBNOTODD  LPFG    RCMAP

     storedseq   DMEDNTG      (struct)     <--- compacted
```

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```
        dcnt32      DMDCNT32     (ushort: 6)
(a)     tgsr_ov     DMBOOL       (enum: 1)
        edn32       DMEDIGSTR    (array [ 32 ] of char )
    ad1_list_id  DMIDP_ADID   (ushort)     <--- key
    adcode       DMEDIGIT     (char)     <--- key, compacted

           User Tuple Layout      AD1S_IDP
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+========== storedseq ==========+===============|
   |           | |                                                   |
 0 |   dcnt32  |a|***************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                                 |
 4 |                             edn32                               |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
   |                                                                 |
 8 |                             edn32                               |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
   |                                                                 |
12 |                             edn32                               |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
   |                                                                 |
16 |                             edn32                               |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
   |                                                                 |
20 |                             edn32                               |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
   |                                                                 |
24 |                             edn32                               |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
   |                                                                 |
28 |                             edn32                               |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
   |                                                                 |
32 |                             edn32                               |
   |===============+===============+===============+===============|
   |                               |               |               |
36 |          ad1_list_id          |     adcode    |***************|
   |---------------+---------------+---------------+---------------|
                           ( 40 bytes )

    storedseq   DMCEDNTG     (struct)     <--- compacted
        dcnt32      DMDCNT32     (ushort: 6)
(a)     tgsr_ov     DMBOOL       (enum: 1)
        edn32a      DMBCD8       (ulong)
        edn32b      DMBCD8       (ulong)
        edn32c      DMBCD8       (ulong)
        edn32d      DMBCD8       (ulong)
    ad1_list_id  DMIDP_ADID   (ushort)     <--- key
    adcode       DMEDIGIT     (char)     <--- key, compacted

       Compacted and Stored Tuple Layout  AD1S_IDP
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
```

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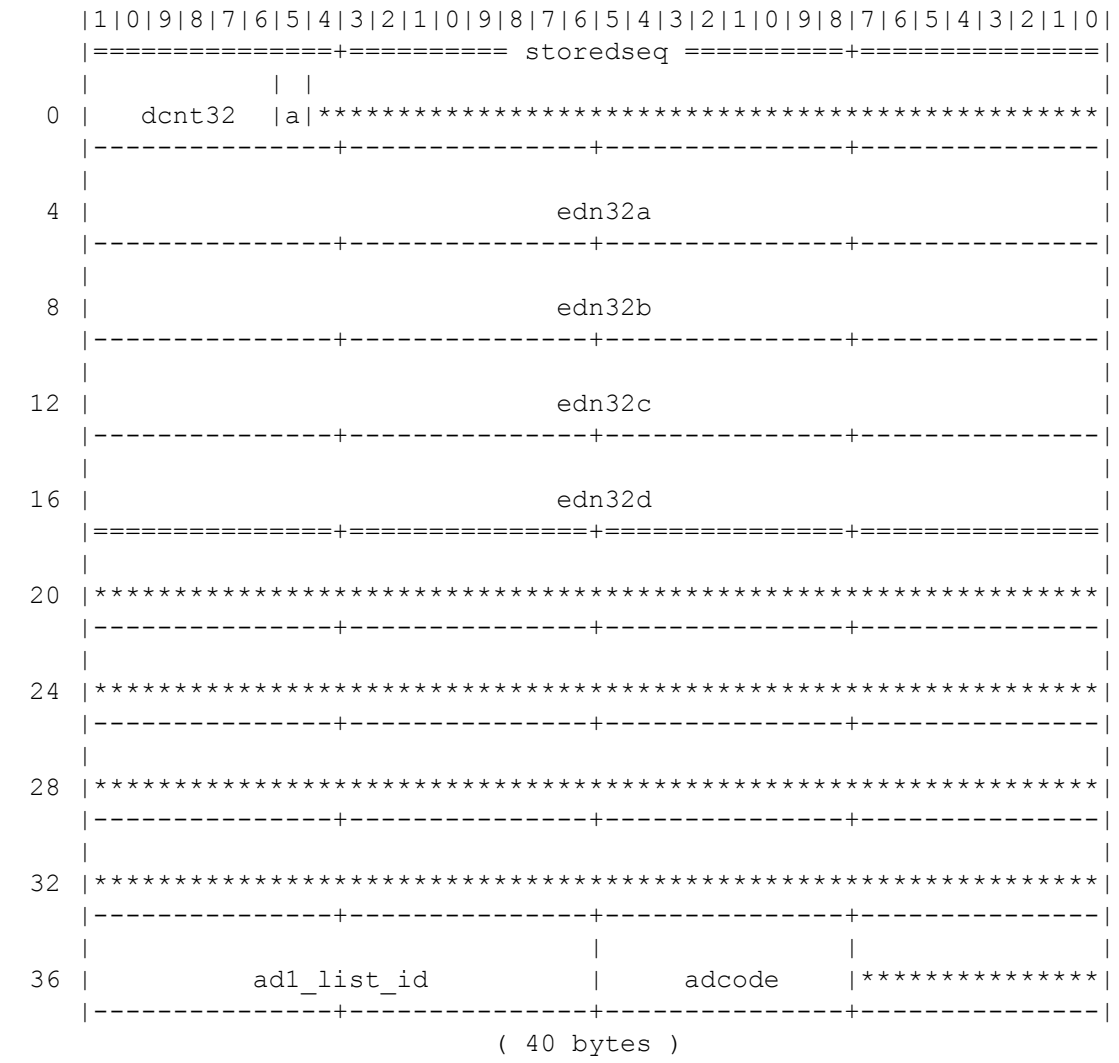


## 4. Population Rules for RLad1s_idp

**Relation Description:** Individualized dialing plan 1-digit shared abbreviated dial list.

This relation gives shared individualized dialing plan information associated with a (name, class, subclass) combination. The relation RLname2id identifies the (name, class, subclass) with which the (ad1_list_id, adcode) information is associated. The class is FACAD1 and the subclass is SCL_SHR. Each adcode, or 1-digit abbreviated dial code, is associated with a string of digits. This ad1_list_id may be assigned to one or more lines.

This relation is for a shared 1-digit Speed Calling lists. A shared speed call list can be assigned to more that one line. Given the speed call list id and the speed call code the stored sequence for that speed call code can be found.

**Attribute: ad1_list_id**

**Fullname:** 1-digit ad list id

**Attribute Description:** shared 1-digit speed call list id

**Attribute: adcode**

**Fullname:** 1-digit AD code

**Attribute Description:** A 1-digit AD code for the given list; it is an extended digit (0-9, *, and #).

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Default Abbreviated Dialing Lists (AD1): If an AD1 list is assigned to the line and if the AD codes are not specified by the customer, default abbreviated dialing lists will be built by ODA as follows:

(1) If a dialing plan (IDP) is assigned to the line, populate digits 2 - 7.

(2) If a dialing plan is not assigned to the line (POTS abbreviated dialing), then populate digits 2 - 9.

**Attribute: storedseq**

**Fullname:** stored extended digit sequence

**Attribute Description:** The stored sequence invoked by the AD code. Each attribute is a structure consisting of three members:

```
edn32:   a 32-digit string;
tgsr_ov: terminal group station restriction override;
digcnt:  the number of digits in the string;
Range of values:  edn32: an array of up to 32 extended digits('0'-'9','#'
,'*',
         and the following ASCII characters:  O(0x4f), F(0x46), I(0x49),
         and P(0x50).);
tgsr_ov: all enumeration values(DBNO,DBYES);
digcnt:  0-32.
Default value: edn32: 0 (null); tgsr_ov: DBNO;
digcnt:  0.
```

**Attribute: storedseq.dcnt32**

**Fullname:** count for up to 32 digits

**Attribute Description:** number of digits in the stored sequence

**Attribute: storedseq.tgsr_ov**

**Fullname:** terminal group station restriction override

**Attribute Description:** ability to override terminal group station restrictions and dialing plan access treatment restrictions via speed calling

**Attribute: storedseq.edn32**

**Fullname:** array of 32 of extended digits

**Attribute Description:** Digit string of up to 32 extended digits making up the stored sequence.

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# AD1S_R

## 1. Description

Individualized dialing plan 1-digit abbrev dial list shared. This is a root storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 524280 |
| expected tuples in relation | 225 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTORAGE |
| density | 11 |
| l1 length of subkey 1 | 1 |
| p1 position of subkey 1 | 20 |
| l2 length of subkey 2 | 16 |
| p2 position of subkey 2 | 0 |
| l3 length of subkey 3 | 3 |
| p3 position of subkey 3 | 21 |
| ks key store | AUTO |
| cluster | 8 |
| ignore key bits | 16-19 |

## 3. Field Layout

```
AD1S_R      relid = 1616  DBSTORAGE  DBACC_CIND  DBPRAM    LPFG    RCMAP

    ad1_list_id  DMIDP_ADID   (ushort)     <--- key, not stored
    adcode       DMEDIGIT     (char)     <--- key, not stored, compacted
    short_dn     DMGK16       (ulong: 16)

            User Tuple Layout    AD1S_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |          ad1_list_id          |     adcode    |***************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             short_dn          |*******************************|
    |---------------+---------------+---------------+---------------|
                           ( 8 bytes )

     ad1_list_id  DMIDP_ADID   (ushort)     <--- key, not stored
     adcode       DMEDIGIT     (char)       <--- key, not stored, compacted
     short_dn     DMGK16       (ulong: 16)

          Compacted Tuple Layout     AD1S_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |          ad1_list_id          |     adcode    |***************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
```

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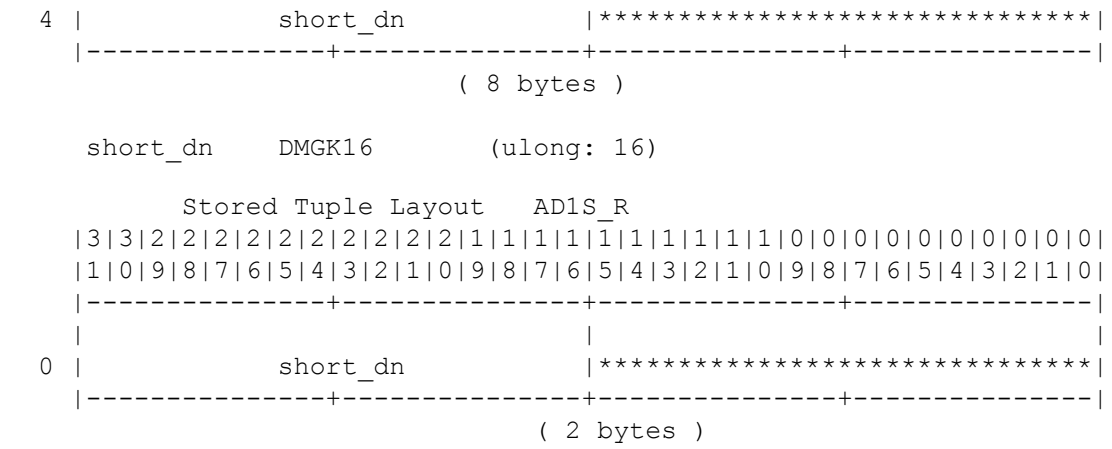


## 4. Population Rules for RLad1s_r

There are no population rules for this relation.

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# AD2B_IDP

## 1. Description

Individualized dialing plan 2-digit abbrev dial list basic tuple, can hold up to 14 digits. If more are needed they will be in ad2e_idp.

This is a virtual update relation. The tree diagram Figure 1 depicts the stored structure of virtual relation AD2B_IDP.

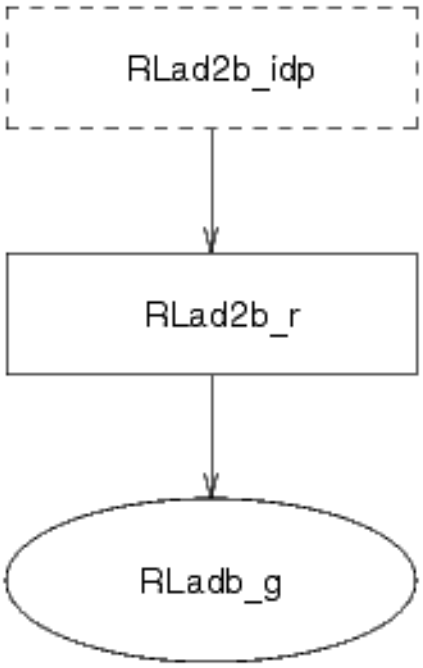


**Figure 1 Stored Structure of Virtual Relation AD2B_IDP**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FP |
| relation type | DBSTATIC |
| corcable | DBYES |
| permutation type | perm |

## 3. Field Layout

```
AD2B_IDP    relid = 968   DBSTATIC   DBACC_OPV   DBNOTODD  FP      NULL

    ad2_list_id  DMIDP_ADID   (ushort)     <--- key
    dig_tens     DMEDIGIT     (char)     <--- key, compacted
    dig_ones     DMEDIGIT     (char)     <--- key
    storedseq    DMDN15       (struct)     <--- compacted
        digcnt       DMDIGCNT     (uchar: 4)
        dn           DMDIGSTRING  (array [ 15 ] of char )

            User Tuple Layout      AD2B_IDP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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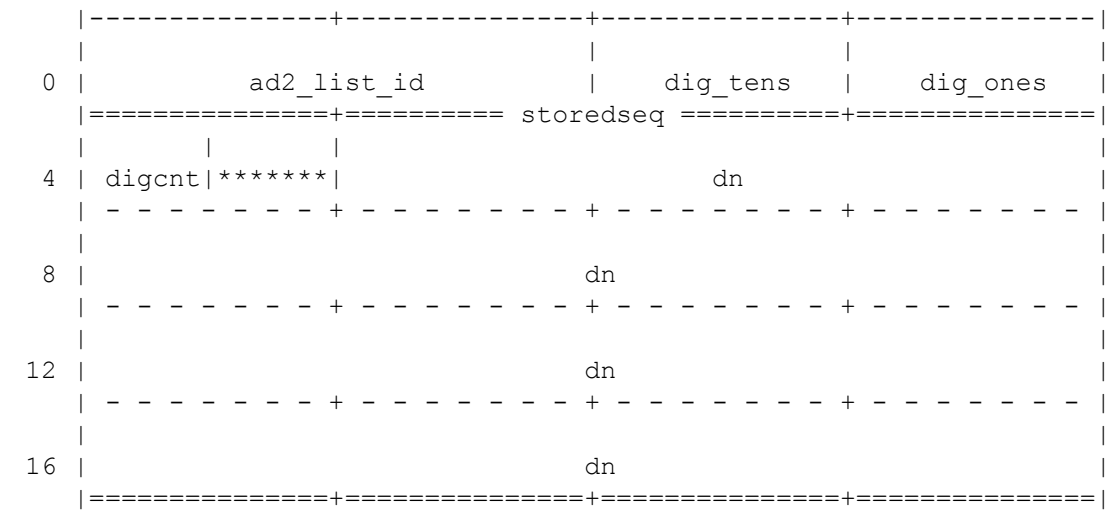
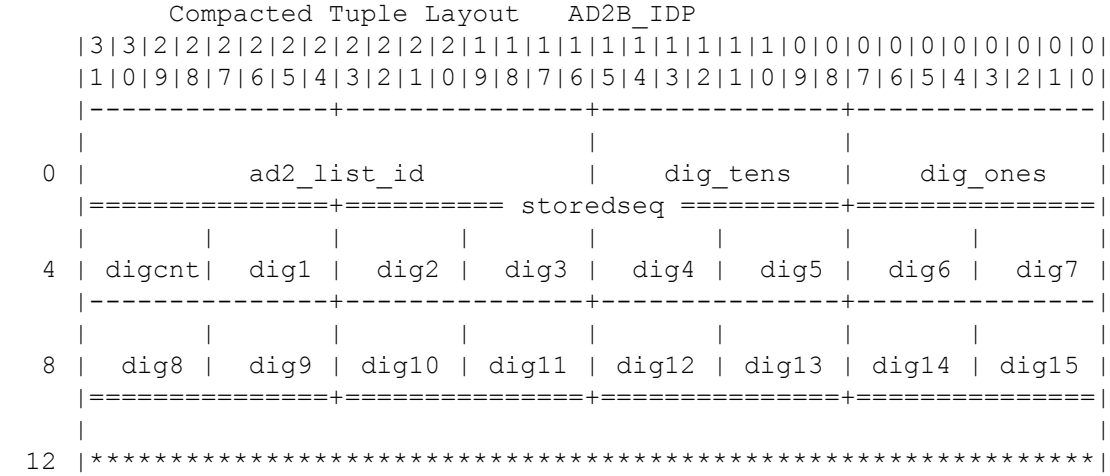



```
ad2_list_id  DMIDP_ADID   (ushort)     <--- key
dig_tens     DMEDIGIT     (char)       <--- key, compacted
dig_ones     DMEDIGIT     (char)       <--- key
storedseq    DMCDN15      (struct)       <--- compacted
    digcnt       DMDIGCNT      (uchar: 4)
    dig1         DMUNS4        (ushort: 4)
    dig2         DMUNS4        (ushort: 4)
    dig3         DMUNS4        (ushort: 4)
    dig4         DMUNS4        (ushort: 4)
    dig5         DMUNS4        (ushort: 4)
    dig6         DMUNS4        (ushort: 4)
    dig7         DMUNS4        (ushort: 4)
    dig8         DMUNS4        (ushort: 4)
    dig9         DMUNS4        (ushort: 4)
    dig10        DMUNS4        (ushort: 4)
    dig11        DMUNS4        (ushort: 4)
    dig12        DMUNS4        (ushort: 4)
    dig13        DMUNS4        (ushort: 4)
    dig14        DMUNS4        (ushort: 4)
    dig15        DMUNS4        (ushort: 4)
```



```
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |***************************************************************|
    |---------------+---------------+---------------+---------------|
                             ( 20 bytes )

     ad2_list_id  DMIDP_ADID   (ushort)     <--- key
     dig_tens     DMEDIGIT     (char)     <--- key, compacted
     dig_ones     DMEDIGIT     (char)     <--- key
     storedseq    DMCDN15      (struct)     <--- compacted
         digcnt       DMDIGCNT     (uchar: 4)
         dig1         DMUNS4       (ushort: 4)
         dig2         DMUNS4       (ushort: 4)
         dig3         DMUNS4       (ushort: 4)
         dig4         DMUNS4       (ushort: 4)
         dig5         DMUNS4       (ushort: 4)
         dig6         DMUNS4       (ushort: 4)
         dig7         DMUNS4       (ushort: 4)
         dig8         DMUNS4       (ushort: 4)
         dig9         DMUNS4       (ushort: 4)
         dig10        DMUNS4       (ushort: 4)
         dig11        DMUNS4       (ushort: 4)
         dig12        DMUNS4       (ushort: 4)
         dig13        DMUNS4       (ushort: 4)
         dig14        DMUNS4       (ushort: 4)
         dig15        DMUNS4       (ushort: 4)

           Stored Tuple Layout     AD2B_IDP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |          ad2_list_id          |    dig_tens   |    dig_ones   |
    |===============+========== storedseq ==========+===============|
    |       |       |       |       |       |       |       |       |
  4 | digcnt|  dig1 |  dig2 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
  8 |  dig8 |  dig9 | dig10 | dig11 | dig12 | dig13 | dig14 | dig15 |
    |===============+===============+===============+===============|
                             ( 12 bytes )
```

## 4. Population Rules for RLad2b_idp

**Relation Description**

Individualized dialing plan 2-digit abbreviated dial list basic tuple, can hold up to 14 digits. If more are needed they will be in ad2e_idp.

**Attribute: ad2_list_id**

**Fullname:** 2-digit abbreviated dial list ID

**Attribute Description:** Sequentially assigned from the class and subclass master tuple in RLsmfacids. The ID is generally assigned from the lastused attribute in the master tuple. If there are

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reclaimed tuples then it is assigned from the reclaimid field in the master tuple. This is indicated by a non-zero value in the reclaimid field.

**Attribute: dig_tens**

**Fullname:** digit dialed in tens position

**Attribute Description:** This attribute indicates the digit dialed in the tens position. Range of values: extended digits '0' - '9', *, #, ".

**Attribute: dig_ones**

**Fullname:** digit dialed in ones position

**Attribute Description:** This attribute indicates the digit dialed in the ones position. Range of values: extended digits 0-9.

**Attribute: storedseq**

**Fullname:** stored digits

**Attribute Description:** Stored digits; string of 15 digits and digit count.

**Attribute: storedseq.digcnt**

**Fullname:** digit count

**Attribute Description:** The number of digits stored in this tuple as well as a flag to indicate that an extended tuple was necessary to accommodate all digits. If the value is between 0 and 14 this means the digcnt refects the total number of digits associated with the abbreviated dial code. A digcnt which equals 15 acts as a flag to indicate the following:

(1) There are more than 14 digits associated this tuple.
(2) Ten digits are stored in this tuple and are located in the first ten digit positions.
(3) No value is stored in the eleventh digit position.
(4) The digits in the positions 12-15 are an encoded key to the tuple in RLad2e_idp which contain the rest of the digits associated with this ad list and ad code. The key is encoded in the following way: If the key to the RLad2e_idp tuple equals 0x1234 then the digits in the 12-15 position would be

```
|digit 12 |  digit 13 | digit 14 | digit 15|
|---------|-----------|----------|---------|
|         |           |          |         |
|   '1'   |    '2'    |   '3'    |   '4'   |
|         |           |          |         |
|---------|-----------|----------|---------|
```

Where '1' represents the character 1 (0x31).

The 12th digit represents the 4 high order bits of the key. The 13th digit represents the next 4 bits of the key, the 14th digit represents the next 4 bits of the key and the 15th digit represents the 4 low order bits of the key.

When hex digits 0xa, 0xb, 0xc, 0xd, 0xe or 0xf are part of the key a special encoding is done in the associated digit position as follows.

```
0xa is represented by '*'
0xb is represented by '#'
0xc is represented by 'F'
0xd is represented by 'O'
```

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```
0xe is represented by 'I'
0xf is represented by 'P'
```

Using this encoding, if the key to RLad2e_idp equals 0xa9be then the values in the 12-15 digit positions would be:

```
|digit 12 |  digit 13 | digit 14 | digit 15|
|---------|-----------|----------|---------|
|         |           |          |         |
|   '*'   |    '9'    |   '#'    |   'I'   |
|         |           |          |         |
|---------|-----------|----------|---------|
```

Dependencies: If there are more than 14 digits associated with this list and adcode then the digcnt = 15.

**Attribute: storedseq.dn**

**Fullname:** Directory Number

**Attribute Description:** The stored sequence invoked by the AD code. Range of values: digits: an array of up to 15 extended digits ['0'-'9','#','*', and the following ASCII characters: O(0x4f), F(0x46), I(0x49), and P(0x50)].

Dependencies: If the digit count is 0-14 there are no dependencies. If the digit count is 15 then the digits in the 12-15 positions represent a key to a tuple in RLad2e_idp which is sequentially derived from the lastused or reclaimid field in the 2-digit extended master class tuple in relation RLsmfacids.

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# AD2B_R

## 1. Description

Individualized dialing plan 2-digit abbrev dial list basic tuple, can hold up to 16 digits. If more are needed they will be in ade_g. This is a root storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 864000 |
| expected tuples in relation | 800 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTORAGE |
| density | 85 |
| l1 length of subkey 1 | 2 |
| p1 position of subkey 1 | 17 |
| l2 length of subkey 2 | 16 |
| p2 position of subkey 2 | 0 |
| l3 length of subkey 3 | 5 |
| p3 position of subkey 3 | 19 |
| ks key store | AUTO |
| cluster | 30 |
| ignore key bits | 16:24-31 |

## 3. Field Layout

```
AD2B_R      relid = 1621  DBSTORAGE  DBACC_CIND  DBPRAM    FP      NULL

    ad2_list_id  DMIDP_ADID   (ushort)     <--- key, not stored
    dig_tens     DMEDIGIT     (char)     <--- key, not stored, compacted
    dig_ones     DMEDIGIT     (char)     <--- key, not stored
    dnlist       DMGK14       (ulong: 14)

            User Tuple Layout    AD2B_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |          ad2_list_id          |    dig_tens   |    dig_ones   |
    |---------------+---------------+---------------+---------------|
    |                           |                                   |
  4 |           dnlist          |***********************************|
    |---------------+---------------+---------------+---------------|
                             ( 8 bytes )

     ad2_list_id  DMIDP_ADID   (ushort)     <--- key, not stored
     dig_tens     DMEDIGIT     (char)     <--- key, not stored, compacted
     dig_ones     DMEDIGIT     (char)     <--- key, not stored
     dnlist       DMGK14       (ulong: 14)

          Compacted Tuple Layout     AD2B_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |          ad2_list_id          |    dig_tens   |    dig_ones   |
```

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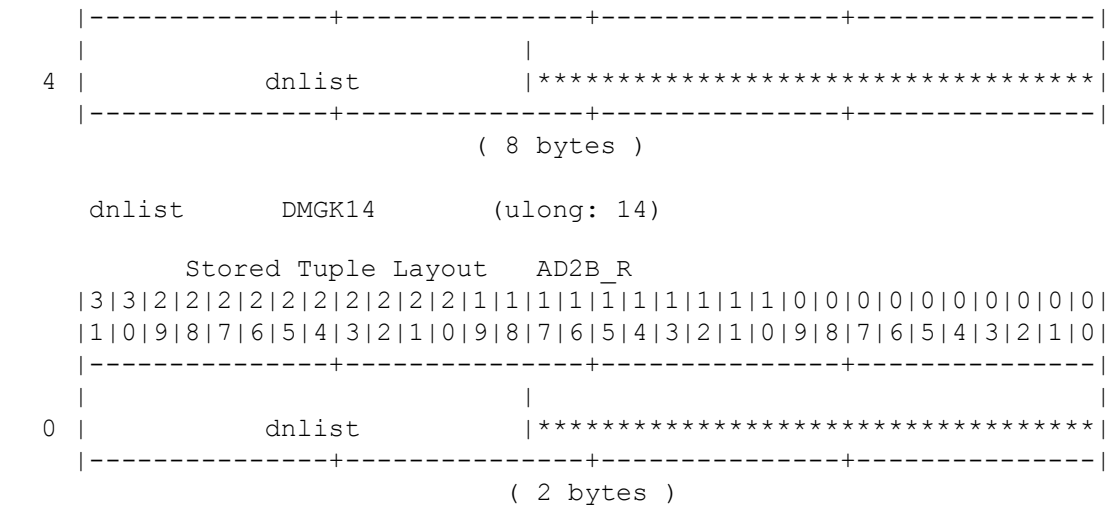


## 4. Population Rules for RLad2b_r

There are no population rules for this relation.

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# AD2E_IDP

## 1. Description

Individualized dialing plan extended digit relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65535 |
| expected number of tuples | 32 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | AUTO |
| density | 100 |
| corcable | DBYES |
| permutation type | perm |

## 3. Field Layout

```
AD2E_IDP    relid = 974   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL

     adxe_idp_id  DMIDP_ADID   (ushort)     <--- key, not stored
     digits      DMAD22       (struct)
         adig22      DMAD_BCD     (array [ 12 ] of char )

         User and Compacted Tuple Layout   AD2E_IDP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |          adxe_idp_id          |*******************************|
    |===============+===========  digits ===========+===============|
    |                                                               |
  4 |                               adig22                          |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
  8 |                               adig22                          |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 12 |                               adig22                          |
    |===============+===============+===============+===============|
                               ( 16 bytes )

     digits      DMAD22       (struct)
         adig22      DMAD_BCD     (array [ 12 ] of char )

           Stored Tuple Layout     AD2E_IDP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+===========  digits ===========+===============|
    |                                                               |
  0 |                               adig22                          |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
```

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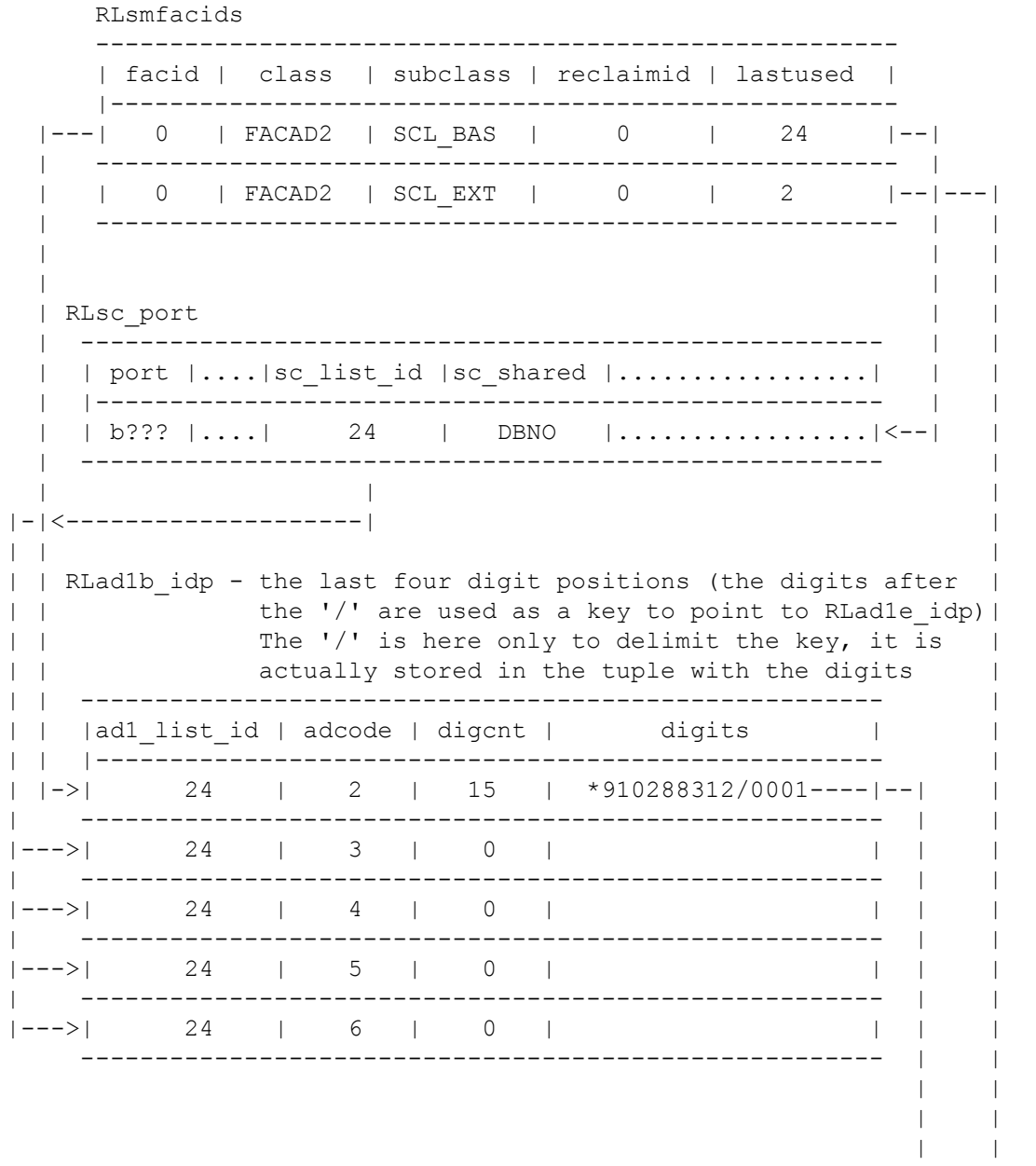
```
  4 |                             adig22                              |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                 |
  8 |                             adig22                              |
    |===============+===============+===============+===============|
                               ( 12 bytes )
```

## 4. Population Rules for RLad2e_idp

### Relation Description

Two-digit speed calling extended digit relation.

Graphical dependency linkage of data for RLad1e_idp

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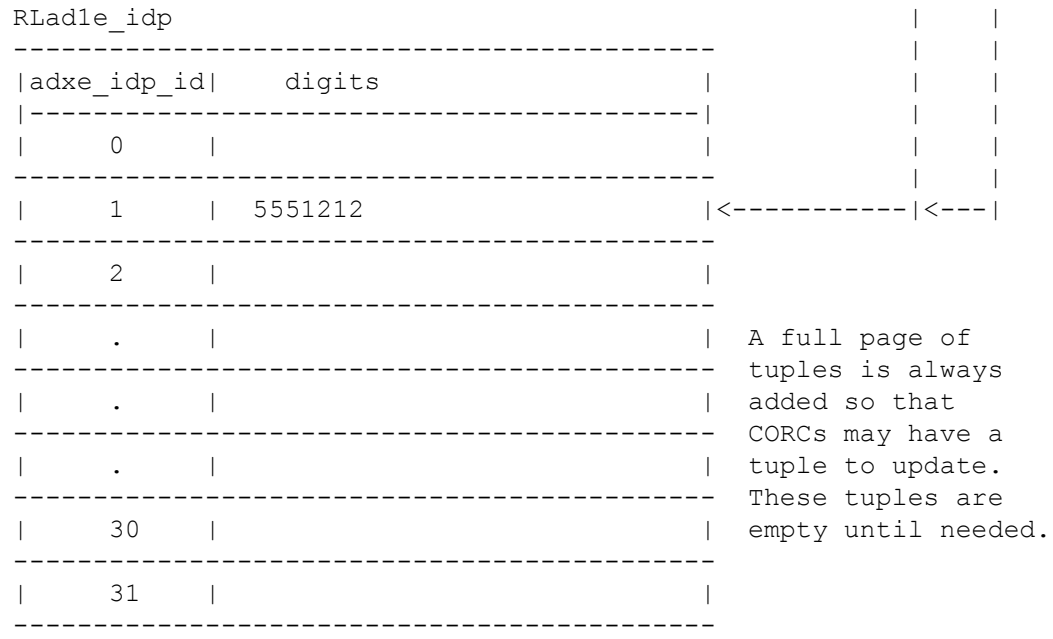


**Attribute: adxe_idp_id**

**Fullname:** extended digit abbreviated dial list ID

**Attribute Description:** This key is stored in a tuple in RLad1b_idp. See poprules for RLad1b_idp for details. Even though the key 0 is populated it is never used. Dependencies: Assigned sequentially from the class master extended tuple in RLsmfacids (key => facid=0, class=FACAD2, subclass=SCL_EXT).

**Attribute: digits**

**Fullname:** stored digits

**Attribute Description:** This attribute indicates the stored digits. Range of values: an array of up to 22 extended digits ['0'-'9','#','*', and the following ASCII characters: O(0x4f), F(0x46), I(0x49), and P(0x50)]. These digits will be populated with the BCD I/O type. This I/O type has been name TTBCD.

ODA: The length of a structure of this I/O type does not imply the number of digits that can be stored in it. The correct number of storable digits is indeed 22.

RECENT CHANGE: The algorithm used to determine the number of digits storable in the structure can be found in hdr/db/DBbcdmacs.h *

**Attribute: digits.adig22**

**Fullname:** digits

**Attribute Description:** An array of 22 BCD digits followed by the digit count.

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# AD2S_G

## 1. Description

The first 15 numbers for individualized dialing plan of 1-digit or 2-digit abbrev dial list shared.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 40000 |
| expected tuples in relation | 2000 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LPFG |
| relation type | DBSTORAGE |
| application | RCMAP |
| head table size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| index length | 5 |
| i2 index into intermediate page | 7 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | unperm |
| gkidxrel GK-index relation | rlADS2_I |

## 3. Field Layout

```
AD2S_G      relid = 1623  DBSTORAGE  DBACC_GK    DBPRAM    LPFG    RCMAP

     gkAD2S_G    DMGK16       (ulong: 16)     <--- key, not stored
     digcnt      DMDCNT32     (ushort: 6)
 (a) tgsr_ov     DMBOOL       (enum: 1)
     long_dn     DMGK14       (ulong: 14)
     edn32a      DMBCD8       (ulong)
     edn32b      DMBCD8       (ulong)

         User and Compacted Tuple Layout     AD2S_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |*******************************|            gkAD2S_G           |
    |---------------+---------------+---------------+---------------|
    |           | |                               |               |
  4 |   digcnt  |a|          long_dn              |***************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                            edn32a                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                            edn32b                             |
    |---------------+---------------+---------------+---------------|
                               ( 16 bytes )

     digcnt      DMDCNT32     (ushort: 6)
 (a) tgsr_ov     DMBOOL       (enum: 1)
     long_dn     DMGK14       (ulong: 14)
```

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```
    edn32a      DMBCD8       (ulong)
    edn32b      DMBCD8       (ulong)

          Stored Tuple Layout   AD2S_G
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                         GK LINK FIELD                         |
   |---------------+---------------+---------------+---------------|
   |           | |                               |                 |
 4 |   digcnt  |a|          long_dn              |*****************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 8 |                             edn32a                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
12 |                             edn32b                            |
   |---------------+---------------+---------------+---------------|
      ( 16 bytes )
```

## 4. Population Rules for RLad2s_g

There are no population rules for this relation.

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# AD2S_IDP

## 1. Description

This relation gives shared Individualized Dialing Plan (IDP), 2-digit abbrev dial list shared, information associated with a (name, class, subclass) combination.

This is a virtual update relation. Figure 1 depicts the stored structure of virtual relation AD2S_IDP.

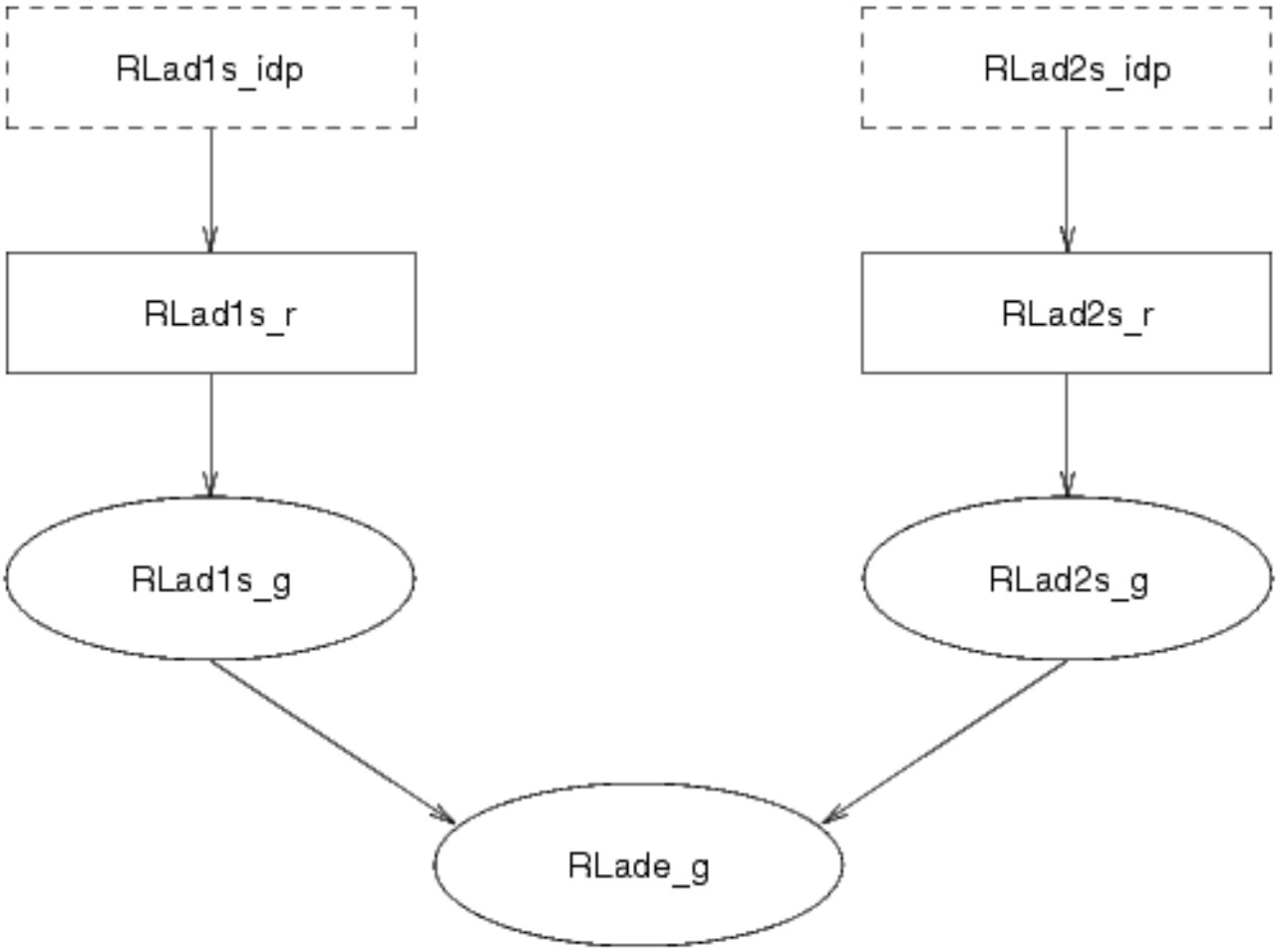


**Figure 1 Stored Structure of Virtual Relation AD2S_IDP**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| corcable | DBYES |
| permutation type | perm |

## 3. Field Layout

```
AD2S_IDP    relid = 462   DBSTATIC   DBACC_OPV   DBNOTODD  LPFG    RCMAP

     ad2_list_id  DMIDP_ADID   (ushort)     <--- key
```

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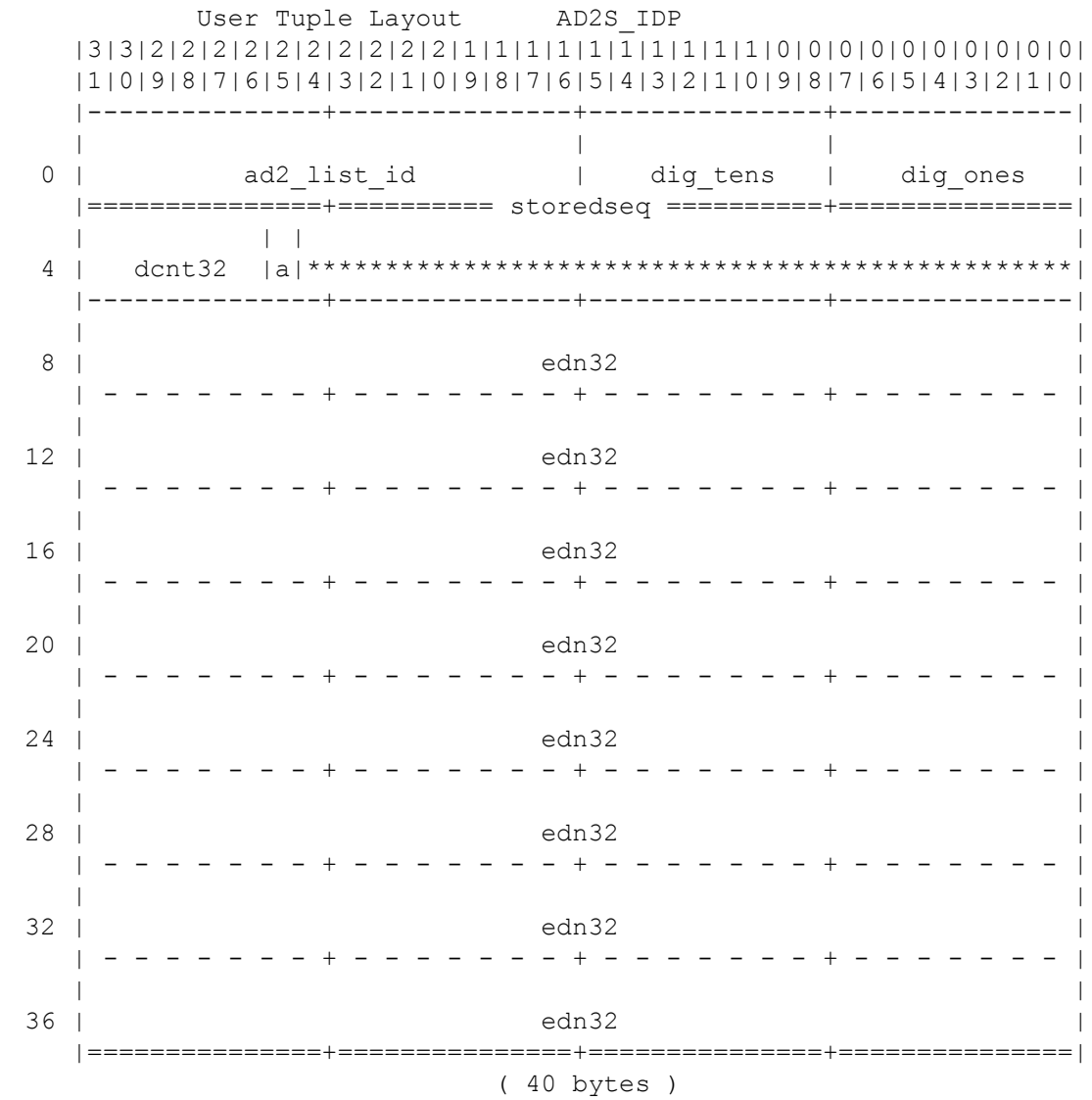
```
    dig_tens    DMEDIGIT     (char)     <--- key, compacted
    dig_ones    DMEDIGIT     (char)     <--- key
    storedseq   DMEDNTG      (struct)     <--- compacted
        dcnt32      DMDCNT32     (ushort: 6)
(a)     tgsr_ov     DMBOOL       (enum: 1)
        edn32       DMEDIGSTR    (array [ 32 ] of char )
```




( 40 bytes )

```
    ad2_list_id  DMIDP_ADID   (ushort)     <--- key
    dig_tens    DMEDIGIT     (char)     <--- key, compacted
    dig_ones    DMEDIGIT     (char)     <--- key
    storedseq   DMCEDNTG     (struct)     <--- compacted
        dcnt32      DMDCNT32     (ushort: 6)
(a)     tgsr_ov     DMBOOL       (enum: 1)
        edn32a      DMBCD8       (ulong)
        edn32b      DMBCD8       (ulong)
        edn32c      DMBCD8       (ulong)
        edn32d      DMBCD8       (ulong)
```

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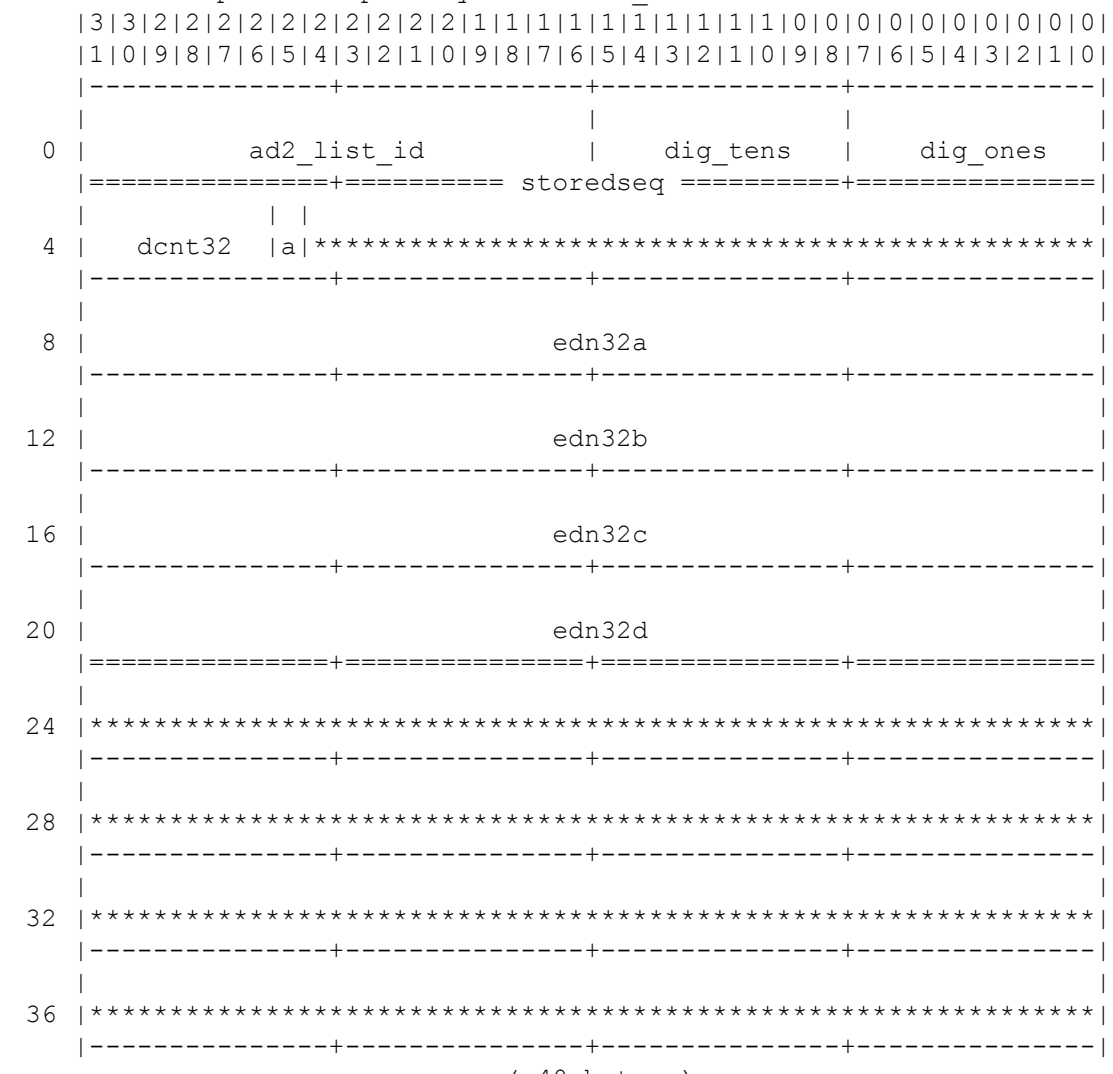
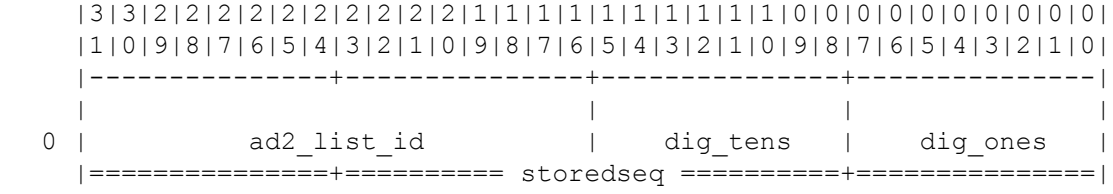
Compacted Tuple Layout AD2S_IDP




( 40 bytes )

```
ad2_list_id  DMIDP_ADID   (ushort)     <--- key
dig_tens     DMEDIGIT     (char)     <--- key, compacted
dig_ones     DMEDIGIT     (char)     <--- key
storedseq    DMCEDNTG     (struct)     <--- compacted
    dcnt32       DMDCNT32     (ushort: 6)
(a) tgsr_ov      DMBOOL       (enum: 1)
    edn32a       DMBCD8       (ulong)
    edn32b       DMBCD8       (ulong)
    edn32c       DMBCD8       (ulong)
    edn32d       DMBCD8       (ulong)
```

Stored Tuple Layout AD2S_IDP

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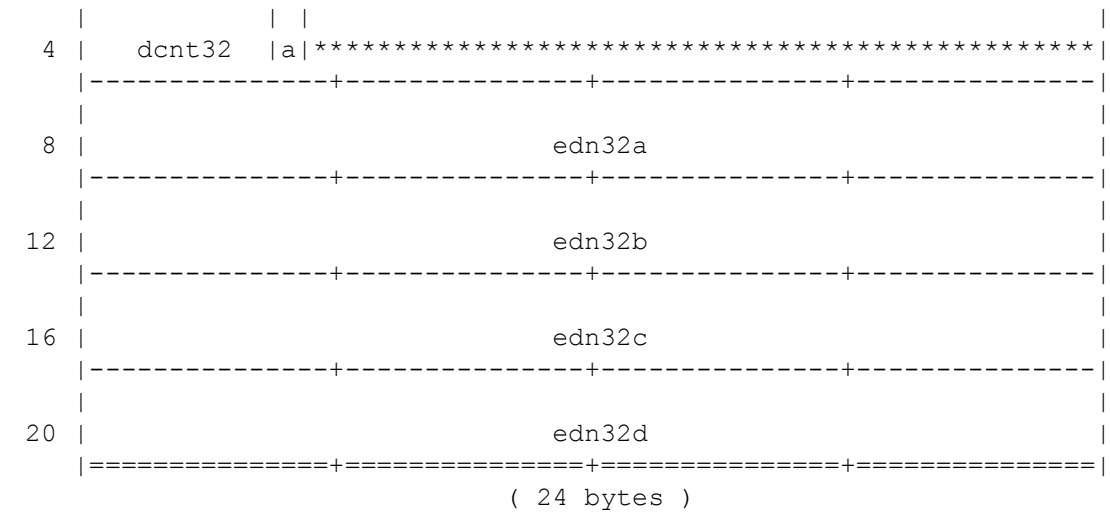


## 4. Population Rules for RLad2s_idp

**Relation Description:** Individualized dialing plan 2-digit shared abbreviated dial list

This relation gives shared individualized dialing plan information associated with a (name, class, subclass) combination. The relation RLname2id identifies the (name, class, subclass) with which the (ad2_list_id, dig_tens, dig_ones) information is associated. The class is FACAD2 and the subclass is SCL_SHR. Each (ad2_list_id, dig_tens) combination is associated with all valid dig_ones values (0 through 9). Each (ad2_list_id, dig_tens, dig_ones) combination is associated with a string of digits. This ad2_list_id may be assigned to one or more lines.

This relation is for a shared 2-digit Speed Calling list. A shared speed call list can be assigned to more than one line. Given the speed call list id and the speed call code the stored sequence for that speed call code can be found.

**Attribute: ad2_list_id**

**Fullname:** 2-digit ad list id

**Attribute Description:** shared 2-digit speed call list id

**Attribute: dig_tens**

**Fullname:** digit dialed in tens position

**Attribute Description:** This attribute indicates the digit dialed in the tens position. Range of values: extended digits '0' - '9', *, #, ''.

**Attribute: dig_ones**

**Fullname:** digit dialed in ones position

**Attribute Description:** This attribute indicates the digit dialed in the ones position. Range of values: extended digits 0-9.

**Attribute: storedseq**

**Fullname:** stored digits

**Attribute Description:** This attribute indicates the stored digits. This is a structure consisting of three members:

```
edn32:   a 32-digit string;
tgsr_ov: terminal group station restriction override;
```

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```
digcnt:  the number of digits in the string.
Range of values:  edn32: an array of up to 32 extended digits('0'-'9','#'
,'*',
         and the following ASCII characters:  O(0x4f), F(0x46), I(0x49),
         and P(0x50).);
tgsr_ov: all enumeration values(DBNO,DBYES);
digcnt:  0-32.
Default value: edn32: 0 (null); tgsr_ov: DBN0;
digcnt:  0.
```

**Attribute: storedseq.dcnt32**

**Fullname:** count for up to 32 digits

**Attribute Description:** Number of digits in the stored sequence.

**Attribute: storedseq.tgsr_ov**

**Fullname:** terminal group station restriction override

**Attribute Description:** The ability to override terminal group station restrictions and dialing plan access treatment restrictions via speed calling.

**Attribute: storedseq.edn32**

**Fullname:** array of 32 of extended digits

**Attribute Description:** Digit string of up to 32 extended digits making up the stored sequence.

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# AD2S_R

## 1. Description

Individualized dialing plan 2-digit abbrev dial list shared.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1966050 |
| expected number of tuples | 386 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTORAGE |
| density | 30 |
| l1 length of subkey 1 | 2 |
| p1 position of subkey 1 | 17 |
| l2 length of subkey 2 | 16 |
| p2 position of subkey 2 | 0 |
| l3 length of subkey 3 | 5 |
| p3 position of subkey 3 | 19 |
| ks key store | AUTO |
| cluster | 30 |
| ignore key bits | 16:24-31 |

## 3. Field Layout

```
AD2S_R      relid = 1622  DBSTORAGE  DBACC_CIND  DBPRAM    LPFG    RCMAP

     ad2_list_id  DMIDP_ADID   (ushort)     <--- key, not stored
     dig_tens     DMEDIGIT     (char)     <--- key, not stored, compacted
     dig_ones     DMEDIGIT     (char)     <--- key, not stored
     short_dn     DMGK16       (ulong: 16)

            User Tuple Layout    AD2S_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |               |               |
  0 |          ad2_list_id           |    dig_tens   |    dig_ones   |
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  4 |            short_dn            |*******************************|
    |---------------+---------------+---------------+---------------|
                               ( 8 bytes )

     ad2_list_id  DMIDP_ADID   (ushort)     <--- key, not stored
     dig_tens     DMEDIGIT     (char)     <--- key, not stored, compacted
     dig_ones     DMEDIGIT     (char)     <--- key, not stored
     short_dn     DMGK16       (ulong: 16)

          Compacted Tuple Layout     AD2S_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |               |               |
  0 |          ad2_list_id           |    dig_tens   |    dig_ones   |
```

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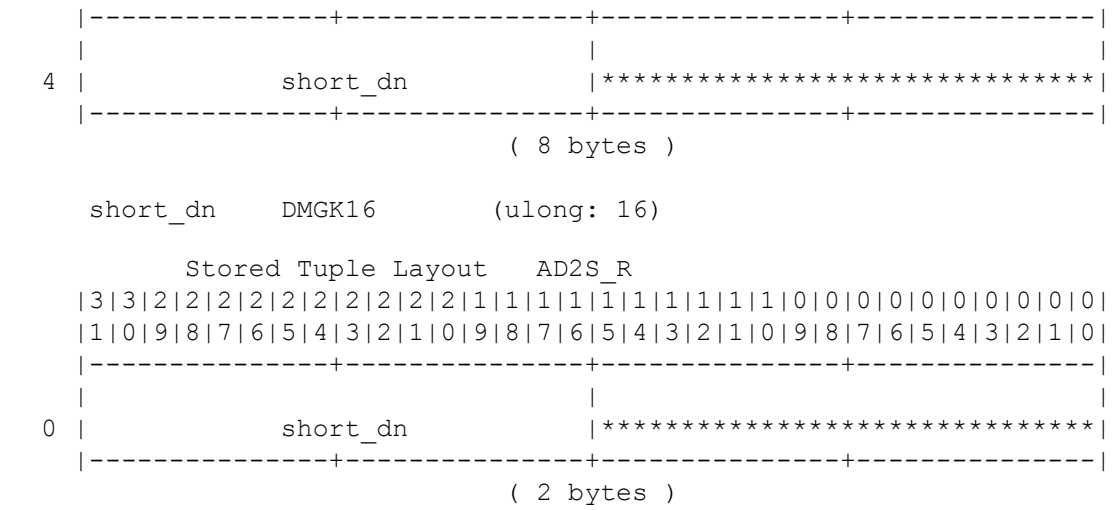


## 4. Population Rules for RLad2s_r

There are no population rules for this relation.

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# ADB_G

## 1. Description

Individualized dialing plan 2-digit abbrev dial list basic tuple, can hold up to 14 digits. If more are needed they will be in ad2e_idp. This is a storage relation shared by both RLad1b_idp and RLad2b_idp.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 15000 |
| expected tuples in relation | 1000 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTORAGE |
| head table size | 1024 |
| data page size | 512 |
| page level | 2 |
| index length | 0 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| corcable | DBNO |
| permutation type | perm |
| gkidxrel GK-index relation | rlADB_I |

## 3. Field Layout

```
ADB_G       relid = 1614  DBSTORAGE  DBACC_GK    DBPRAM    FP      NULL

     gkADB_G     DMGK14       (ulong: 14)     <--- key, not stored
     storedseq   DMDN15       (struct)     <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )

            User Tuple Layout     ADB_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkADB_G              |
    |===============+========== storedseq ==========+===============|
    |       |       |                                                 |
  4 | digcnt|*******|                       dn                        |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
  8 |                               dn                                |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
 12 |                               dn                                |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
 16 |                               dn                                |
    |===============+===============+===============+===============|
                              ( 20 bytes )

     gkADB_G     DMGK14       (ulong: 14)     <--- key, not stored
     storedseq   DMCDN15      (struct)     <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
```

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```
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
        dig8        DMUNS4       (ushort: 4)
        dig9        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)

         Compacted Tuple Layout      ADB_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkADB_G              |
    |===============+========== storedseq ==========+===============|
    |       |       |       |       |       |       |       |       |
  4 | digcnt|  dig1 |  dig2 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
  8 |  dig8 |  dig9 | dig10 | dig11 | dig12 | dig13 | dig14 | dig15 |
    |===============+===============+===============+===============|
    |                                                               |
 12 |***************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |***************************************************************|
    |---------------+---------------+---------------+---------------|
                             ( 20 bytes )

     storedseq   DMCDN15      (struct)     <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dig1        DMUNS4       (ushort: 4)
         dig2        DMUNS4       (ushort: 4)
         dig3        DMUNS4       (ushort: 4)
         dig4        DMUNS4       (ushort: 4)
         dig5        DMUNS4       (ushort: 4)
         dig6        DMUNS4       (ushort: 4)
         dig7        DMUNS4       (ushort: 4)
         dig8        DMUNS4       (ushort: 4)
         dig9        DMUNS4       (ushort: 4)
         dig10       DMUNS4       (ushort: 4)
         dig11       DMUNS4       (ushort: 4)
         dig12       DMUNS4       (ushort: 4)
         dig13       DMUNS4       (ushort: 4)
         dig14       DMUNS4       (ushort: 4)
         dig15       DMUNS4       (ushort: 4)
```

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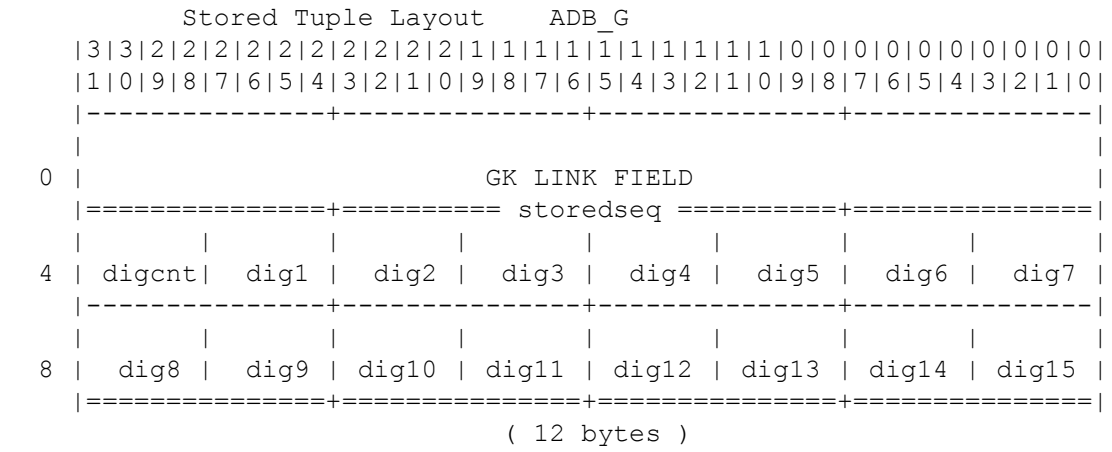


## 4. Population Rules for RLadb_g

There are no population rules for this relation.

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# ADDON

## 1. Description

This relation contains those NPAs for which part or all of the NXXs can be restricted from using add-on *Alliance*® Teleconferencing.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
ADDON       relid = 1012  DBSTATIC   DBACC_LIN   DBPRAM    FG      NULL

     npa         DMNPA        (array [ 3 ] of char )     <--- key
 (a) allrest     DMBOOL       (enum: 1)
     bits00      DMOAH32      (ulong)
     bits01      DMOAH32      (ulong)
     bits02      DMOAH32      (ulong)
     bits03      DMOAH32      (ulong)
     bits04      DMOAH32      (ulong)
     bits05      DMOAH32      (ulong)
     bits06      DMOAH32      (ulong)
     bits07      DMOAH32      (ulong)
     bits08      DMOAH32      (ulong)
     bits09      DMOAH32      (ulong)
     bits10      DMOAH32      (ulong)
     bits11      DMOAH32      (ulong)
     bits12      DMOAH32      (ulong)
     bits13      DMOAH32      (ulong)
     bits14      DMOAH32      (ulong)
     bits15      DMOAH32      (ulong)
     bits16      DMOAH32      (ulong)
     bits17      DMOAH32      (ulong)
     bits18      DMOAH32      (ulong)
     bits19      DMOAH32      (ulong)
     bits20      DMOAH32      (ulong)
     bits21      DMOAH32      (ulong)
     bits22      DMOAH32      (ulong)
     bits23      DMOAH32      (ulong)
     bits24      DMOAH32      (ulong)

         User, Compacted and Stored Tuple Layout  ADDON
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               | |             |
```

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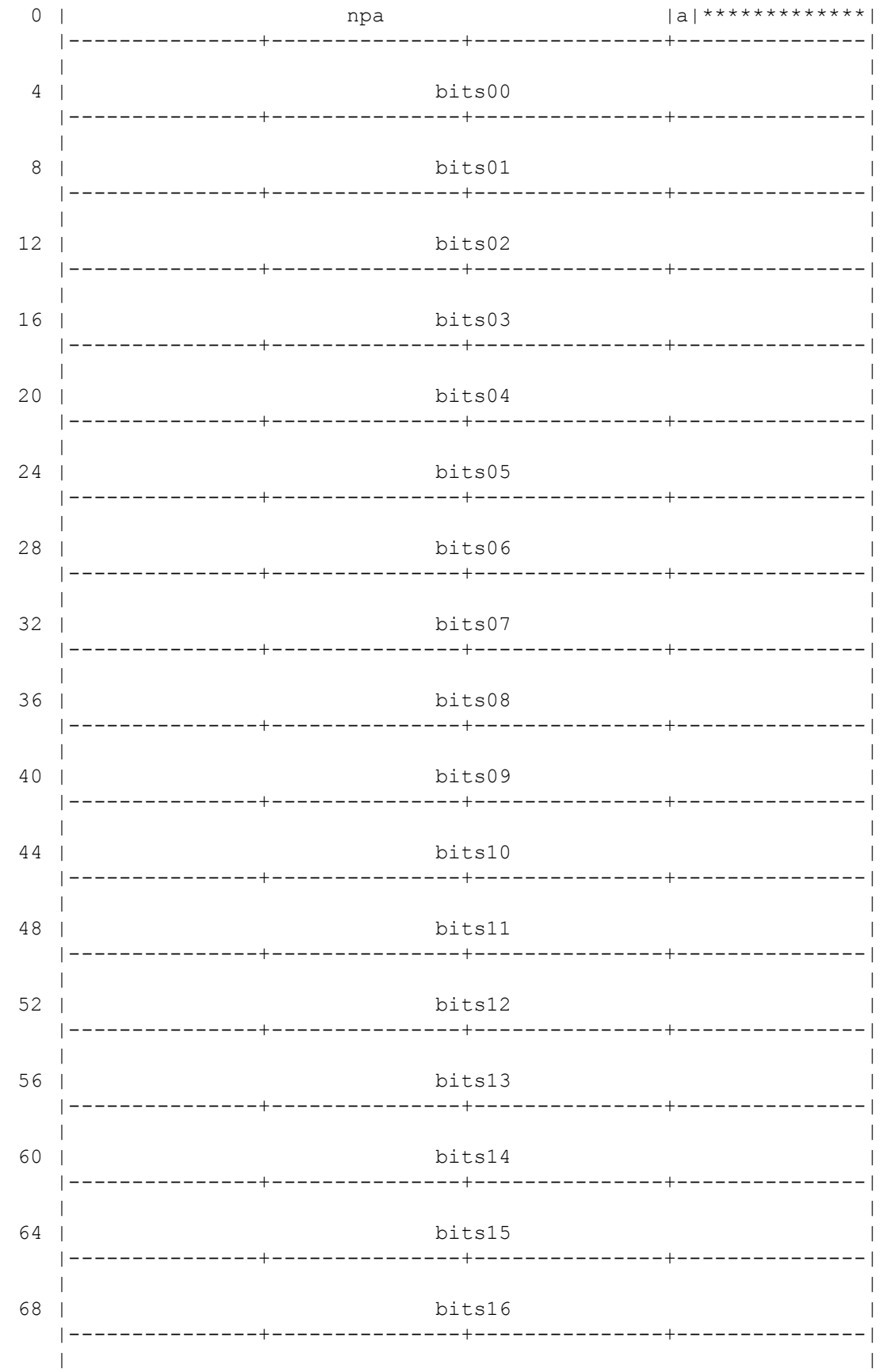


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```
 72 |                            bits17                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 76 |                            bits18                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 80 |                            bits19                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 84 |                            bits20                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 88 |                            bits21                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 92 |                            bits22                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 96 |                            bits23                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
100 |                            bits24                             |
    |---------------+---------------+---------------+---------------|
                             ( 104 bytes )

domain alADDON    struct  (3 sub-attributes)

          npa         .1.fake      (array [ 3 ] of char )
   (a)    allrest     .0fake       (enum)
          bitsxx      .2.fake      (array [ 25 ] of unsigned long )

        Structure Layout   alADDON
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               | |             |
  0 |                      npa                      |a|*************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            bitsxx                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
                                   .
                                   .
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 96 |                            bitsxx                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
100 |                            bitsxx                             |
    |---------------+---------------+---------------+---------------|
       ( 104 bytes )
```

## 4. Population Rules for RLaddon

**Relation Description**

Add on *Alliance*® Teleconferencing. This relation contains those NPAs for which part or all of the NXXs can be restricted from using add-on *Alliance*® Teleconferencing.

There are a maximum of 16 NPAs per OSPS office. This relation has permutation type un_perm to guarantee that the alternate relation definition has the same alignment as the relation.

**Attribute: npa**

**Fullname:** Numbering Plan Area

**Attribute Description:** This is an NPA served by this OSPS for which some NXXs are restricted from originating add-on *Alliance*® Teleconferencing calls.

**Attribute: allrest**

**Fullname:** All NXXs are restricted or just some

**Attribute Description:** This is a boolean flag which indicates if all NXXs are restricted (DBYES) or just some (or none) (DBNO).

**Attribute: bits[*]**

**Fullname:** NXX restriction flags

**Attribute Description:** These are 800 boolean flags stored in 25 32-bit words, with a bit being a flag for each NXX within the NPA to indicate whether the NXX is restricted (1) or not (0). The low order bits are populated with boolean bits24 status of lower NXXs in ascending order. Thus NXXs 200 to 231 will correspond to bit 0 to bit 31 within the attribute bits00.

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# ADE_G

## 1. Description

The 16 extented dialing numbers (if needed) for individualized dialing plan of 1-digit or 2-digit abbrev dial list shared. This is a child storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16000 |
| expected number of tuples | 100 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTORAGE |
| head table size | 1024 |
| data page size | 512 |
| page level | 2 |
| index length | 0 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | unperm |
| gkidxrel GK-index relation | rlADE_I |

## 3. Field Layout

```
ADE_G       relid = 1619  DBSTORAGE  DBACC_GK    DBPRAM    LPFG    RCMAP

     gkADE_G     DMGK14       (ulong: 14)     <--- key, not stored
     edn32c      DMBCD8       (ulong)
     edn32d      DMBCD8       (ulong)

         User and Compacted Tuple Layout  ADE_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkADE_G              |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  4 |                            edn32c                               |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  8 |                            edn32d                               |
    |---------------+---------------+---------------+---------------|
                             ( 12 bytes )

     edn32c      DMBCD8       (ulong)
     edn32d      DMBCD8       (ulong)

           Stored Tuple Layout    ADE_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  0 |                        GK LINK FIELD                            |
    |---------------+---------------+---------------+---------------|
```

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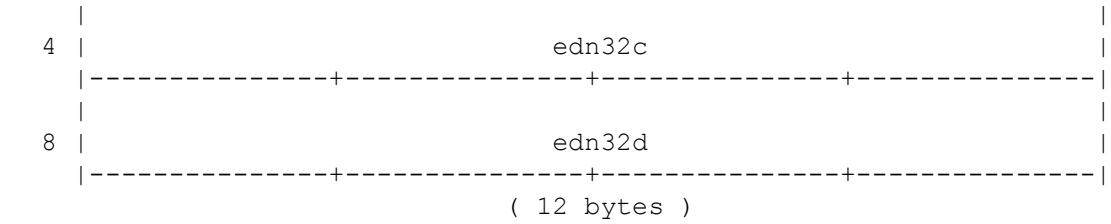


## 4. Population Rules for RLade_g

There are no population rules for this relation.

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# AFAC

## 1. Description

This relation contains the *Autoplex*® Facility Identifiers.

This relation maps the *Autoplex*® Facility Identifiers, assigned by the office, to the facility circuit name.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1023 |
| expected number of tuples | 40 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| relation type | DBSTATIC |
| application type | CGA |
| trigger function | TMafac |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ks key stored | AUTO |

## 3. Field Layout

```
AFAC        relid = 2064  DBSTATIC   DBACC_CIND  DBPRAM    LP      CGA

     afac_id     DMUNS10      (ushort: 10)     <--- key, not stored
     circuit     DMCIRCUIT    (ushort)
     sm          DMMODULE     (ushort: 8)

         User and Compacted Tuple Layout   AFAC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  0 |      afac_id      |*******************************************|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  4 |            circuit            |       sm      |***************|
    |---------------+---------------+---------------+---------------|
                              ( 8 bytes )

     circuit     DMCIRCUIT    (ushort)
     sm          DMMODULE     (ushort: 8)

           Stored Tuple Layout     AFAC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |            circuit            |       sm      |***************|
    |---------------+---------------+---------------+---------------|
                              ( 4 bytes )
```

## 4. Population Rules for RLafac

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**Relation Description**

*Autoplex*® facility identifiers

This relation maps *Autoplex*® facility identifiers, assigned by the office, to the facility circuit name.

**Attribute: afac_id**

**Fullname:** *Autoplex*® facility identifier

**Attribute Description:** Key attribute identifying a facility used for *Autoplex*® traffic. This ID is assigned by the technician. It is used in communicating maintenance information to the *Autoplex*® complex.

**Attribute: sm**

**Fullname:** Switching module (SM)

**Attribute Description:** Indicates the SM on which the facility resides.

**Attribute: circuit**

**Fullname:** Circuit name

**Attribute Description:** Indicates the circuit name of the facility. This is the key to the circuit's RLcktdata tuple on the given SM.

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# AGENTID

## 1. Description

Login ids and serving team assignments for all agents.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32768 |
| expected number of tuples | 3000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | ACDBRCS |
| relation type | DBSTATIC |
| ks key store | AUTO |
| trigger function | CDtagentid |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
AGENTID     relid = 2340  DBSTATIC   DBACC_CIND  DBPRAM    LPFG    ACDBRCS

     agent_id    DMAGID       (ushort)     <--- key, not stored
     pswd        DMAGPSWD     (array [ 6 ] of char )
     serv_tm     DMSTNUM      (ushort: 10)
 (a) mon_perm    DMBOOL       (enum: 1)

         User and Compacted Tuple Layout    AGENTID
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             agent_id          |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                               pswd                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                   | |         |
  8 |               pswd            |      serv_tm      |a|*********|
    |---------------+---------------+---------------+---------------|
                             ( 12 bytes )

     pswd        DMAGPSWD     (array [ 6 ] of char )
     serv_tm     DMSTNUM      (ushort: 10)
 (a) mon_perm    DMBOOL       (enum: 1)

           Stored Tuple Layout      AGENTID
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                               pswd                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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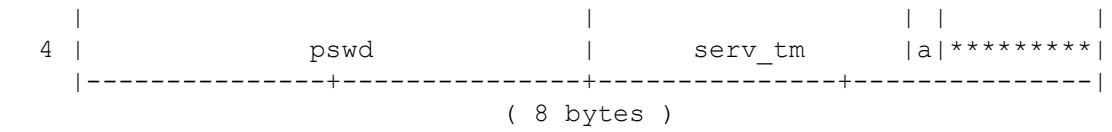


## 4. Population Rules for RLagentid

**Relation Description**

ACD/BRCS agent login id relation

This relation defines the valid login IDs and serving team assignments for ACD/BRCS agents.

**Attribute: agent_id**

**Fullname:** ACD/BRCS agent identifier

**Attribute Description:** This is the agent ID.

**Attribute: serv_tm**

**Fullname:** Serving Team number

**Attribute Description:** Serving team number this agent ID is assigned to.

**Attribute: pswd**

**Fullname:** Agent's password

**Attribute Description:** The password is a string of SZAGPSWD characters composed only of numeric characters '0'-'9'. Note that the password must be exactly SZAGPSWD characters OR the null string.

**Attribute: mon_perm**

**Fullname:** Agent's monitoring (service observing) permission flag

**Attribute Description:** This attribute indicates whether an agent is allowed to monitor (service observe).

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# AI_ESP

## 1. Description

Access Interface Unit Essential Service Protection Masks  Explanation for TMAX value:

Each tuple in this relation holds information for 8 lines on both an SM and SM-2000. Tuples can be created for all possible lines, so for an SM with eight possible AIU's at 640 lines/AIU (20 AP's per AIU, 32 lines per AIU), 5120 lines are configurable, although such a configuration may be illegal.

The maximum number of tuples for RLai_esp was based on 80 tuples for each AIU. ODA will only create tuples for lines within that group that have been assigned the ESP feature on a port basis. If there are no ESP assigned lines in the tuple, that tuple will not be created. For each possible AIU, a maximum of 80 tuples/AIU will be created since an AIU contains a greater number of groups. Tuhs for SM2000, the tmax is 43 (max AIU's) * 80 (max tuples) = 3440 tuples per SM-2000.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10080 |
| expected number of tuples | 17 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | TLA |
| padding indicator | unpadded |
| permutation type | perm |

## 3. Field Layout

```
AI_ESP      relid = 2565  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL


     espmask     DMUCHAR      (uchar)
     unit_nbr    DMUNS7       (ushort: 7)       <--- key
     ap_nbr      DMUNS6       (ushort: 6)       <--- key
     group       DMUNS3       (ushort: 3)       <--- key
         User, Compacted and Stored Tuple Layout AI_ESP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |             | |           |     |             |
  0 |    espmask    |   unit_nbr  |*|   ap_nbr  |group|*************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population rules for RLai_esp

### Relation Description

Access Interface Unit Essential Service Protection Masks.

**Attribute:**

unit_nbr

**Fullname:**

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Access Interface Unit number

**Attribute Description:**

'unit_nbr' is the first key to this relation.
The following check section tells how the key is generated.

**Attribute:**

ap_nbr

**Fullname:**

Application Pack number

**Attribute Description:**

'ap_nbr' identifies an Application Pack in an (*)AIU unit.
It is the second key to this relation.
The following check section tells how the key is generated.

**Attribute:**

group

**Fullname:**

Group Identification

**Attribute Description:**

'group' identifies an 8-line group in an Application Pack.
'group' is the third key to this relation.
The following check section tells how the key is generated.

**Attribute:**

espmask

**Fullname:**

1 byte per group (bit value of 1 means the Essential Service
Protection (ESP) is enabled for this port).

**Attribute Description:**

The espmask attribute contains 8 one-bit masks,
one for each line in the group. Bit 0 contains
the mask for Line 0 of the group.... and bit 7

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```
contains the mask for Line 7 of the group.
Bit 0 is the low order bit.

'espmask' will logically be a projection of the
RLrc_oeinfo 'esl' attribute.  'espmask' indicates
which lines have ESP (Essential Services Protection).
ESP lines receive priority originating treatment
during severe peak traffic conditions IF the
switch personnel has enabled ESP.
Each line in a group will have a different bit
for it in 'espmask'.  Which bit a line uses is
dependent on its relative position in the group.
```

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# AILSALL

## 1. Description

NPA and point code where all NXXs are active.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 800 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
AILSALL     relid = 2190  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL

     pointcode   DMPT_CODE    (ulong: 24)
     oaff3       DMUNS8       (ushort: 8)
     oaff2       DMUSHORT     (ushort)
     npa         DMBINNPA     (ushort: 10)     <--- key
     oaff1       DMUNS6       (ushort: 6)

         User, Compacted and Stored Tuple Layout    AILSALL
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                   pointcode                   |     oaff3     |
    |---------------+---------------+---------------+---------------|
    |                               |                   |           |
  4 |              oaff2            |        npa        |   oaff1   |
    |---------------+---------------+---------------+---------------|
                               ( 8 bytes )
```

## 4. Population Rules for RLailsall

### Relation Description

RLailsall

RLailsall is for the automated inward line screening (AILS) data.

**Attribute: npa**

**Fullname:** NPA.

**Attribute Description:** Office Code where all NXXs are utilizing this feature.

**Attribute: oaff1**

**Fullname:** 6-bit spare.

**Attribute Description:** Unused.

**Attribute: oaff2**

**Fullname:** unsigned short spare.

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**Attribute Description:** Unused.

**Attribute: pointcode**

**Fullname:** Destination Point Code.

**Attribute Description:** Destination point code of the office code utilizing this feature.

**Attribute: oaff3**

**Fullname:** 8 bit spare.

**Attribute Description:** Unused.

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# AILSDT

## 1. Description

Automated Inward Line Screening (AILS) destination table containing the NXX bit map for this NPA.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 5600 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
AILSDT      relid = 2191  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL

     npa          DMBINNPA     (ushort: 10)     <--- key
 (a) unique       DMUNS3       (ushort: 3)     <--- key
     oaff1        DMUNS3       (ushort: 3)
     pointcode    DMPT_CODE    (ulong: 24)
     oaff2        DMUNS5       (ushort: 5)
     oaff3        DMUNS3       (ushort: 3)
     nxx200       DMULONG      (ulong)
     nxx232       DMULONG      (ulong)
     nxx264       DMULONG      (ulong)
     nxx296       DMULONG      (ulong)
     nxx328       DMULONG      (ulong)
     nxx360       DMULONG      (ulong)
     nxx392       DMULONG      (ulong)
     nxx424       DMULONG      (ulong)
     nxx456       DMULONG      (ulong)
     nxx488       DMULONG      (ulong)
     nxx520       DMULONG      (ulong)
     nxx552       DMULONG      (ulong)
     nxx584       DMULONG      (ulong)
     nxx616       DMULONG      (ulong)
     nxx648       DMULONG      (ulong)
     nxx680       DMULONG      (ulong)
     nxx712       DMULONG      (ulong)
     nxx744       DMULONG      (ulong)
     nxx776       DMULONG      (ulong)
     nxx808       DMULONG      (ulong)
     nxx840       DMULONG      (ulong)
     nxx872       DMULONG      (ulong)
     nxx904       DMULONG      (ulong)
     nxx936       DMULONG      (ulong)
     nxx968       DMULONG      (ulong)

         User, Compacted and Stored Tuple Layout AILSDT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
```

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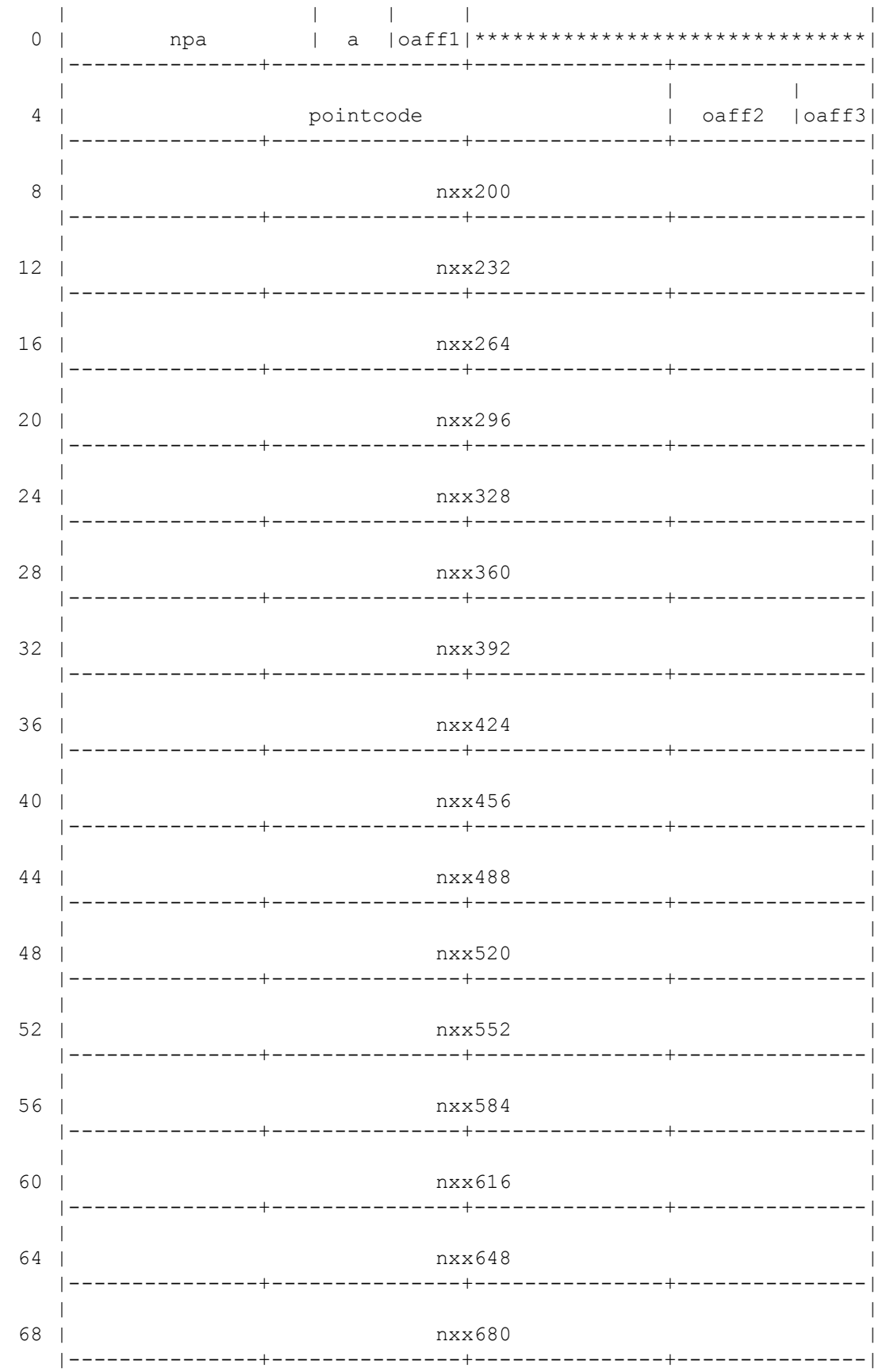


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```
    |                                                                |
 72 |                           nxx712                               |
    |--------------+--------------+--------------+--------------|
    |                                                                |
 76 |                           nxx744                               |
    |--------------+--------------+--------------+--------------|
    |                                                                |
 80 |                           nxx776                               |
    |--------------+--------------+--------------+--------------|
    |                                                                |
 84 |                           nxx808                               |
    |--------------+--------------+--------------+--------------|
    |                                                                |
 88 |                           nxx840                               |
    |--------------+--------------+--------------+--------------|
    |                                                                |
 92 |                           nxx872                               |
    |--------------+--------------+--------------+--------------|
    |                                                                |
 96 |                           nxx904                               |
    |--------------+--------------+--------------+--------------|
    |                                                                |
100 |                           nxx936                               |
    |--------------+--------------+--------------+--------------|
    |                                                                |
104 |                           nxx968                               |
    |--------------+--------------+--------------+--------------|
                              ( 108 bytes )

domain alAILSDT   struct  (7 sub-attributes)

           npa          .6.fake      (ushort: 10)
   (a)     unique       .7.fake      (ushort: 3)
           oaff1        .8.fake      (ushort: 3)
           pointcode    .9.fake      (ulong)
           oaff2        .10.fake     (ushort: 5)
           oaff3        .11.fake     (ushort: 3)
           nxx          .12.fake     (array [ 25 ] of unsigned long )

         Structure Layout      alAILSDT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |                   |     |     |                              |
  0 |        npa        |  a  |oaff1|******************************|
    |--------------+--------------+--------------+--------------|
    |                                             |         |     |
  4 |                    pointcod                 |  oaff2  |oaff3|
    |--------------+--------------+--------------+--------------|
    |                                                                |
  8 |                             nxx                                |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                |
 12 |                             nxx                                |
```

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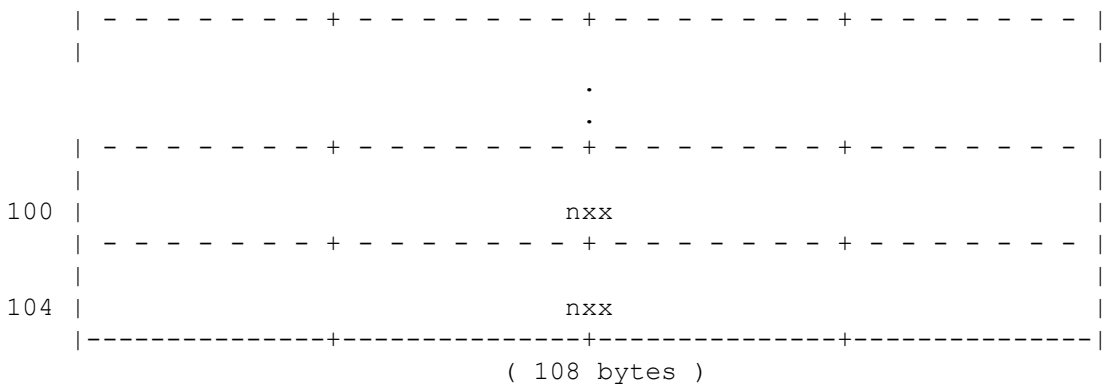


## 4. Population Rules for RLailsdt

**Relation Description**

RLailsdt

RLailsdt is for the automated inward line screening (AILS) data

**Attribute: npa**

**Fullname:** NPA.

**Attribute Description:** Office Code utilizing this feature.

**Attribute: unique**

**Fullname:** Uniqueness key.

**Attribute Description:** A non-displayed key which is related to the DPC, allowing multiple 800-bit maps for each NPA.

**Attribute: oaff1**

**Fullname:** 3 bit spare.

**Attribute Description:** Unused.

**Attribute: pointcode**

**Fullname:** Destination Point Code.

**Attribute Description:** Destination point code of the office code utilizing this feature.

**Attribute: oaff2**

**Fullname:** 5 bit spare.

**Attribute Description:** Unused.

**Attribute: oaff3**

**Fullname:** 3 bit spare.

**Attribute Description:** Unused.

**Attribute: nxx200**

**Fullname:** NXXs 200 - 231.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

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**Attribute: nxx232**

**Fullname:** NXXs 232 - 263.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx264**

**Fullname:** NXXs 264 - 295.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx296**

**Fullname:** NXXs 296 - 327.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx328**

**Fullname:** NXXs 328 - 359.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx360**

**Fullname:** NXXs 360 - 391.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx392**

**Fullname:** NXXs 392 - 423.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx424**

**Fullname:** NXXs 424 - 455.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx456**

**Fullname:** NXXs 456 - 487.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx488**

**Fullname:** NXXs 488 - 519.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx520**

**Fullname:** NXXs 520 - 551.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx552**

**Fullname:** NXXs 552 - 583.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx584**

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**Fullname:** NXXs 584 - 615.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx616**

**Fullname:** NXXs 616 - 647.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx648**

**Fullname:** NXXs 648 - 679.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx680**

**Fullname:** NXXs 680 - 711.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx712**

**Fullname:** NXXs 712 - 743.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx744**

**Fullname:** NXXs 744 - 775.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx776**

**Fullname:** NXXs 776 - 807.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx808**

**Fullname:** NXXs 808 - 839.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx840**

**Fullname:** NXXs 840 - 871.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx872**

**Fullname:** NXXs 872 - 903.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx904**

**Fullname:** NXXs 904 - 935.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx936**

**Fullname:** NXXs 936 - 967.

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**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

**Attribute: nxx968**

**Fullname:** NXXs 968 - 999.

**Attribute Description:** Bitmap indicating which NXXs are served by this point code.

# AISCLS

## 1. Description

Destination indexes related to automatic number identification.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| access type | DBACC_LIN |
| head table size | 256 |
| data page size | 256 |

## 3. Field Layout

```
AISCLS      relid = 1464  DBSTATIC   DBACC_LIN   DBPRAM    FG      NULL

     aisanidi    DMDESTIDX    (ushort: 12)
     aiscls      DMAISCLS     (enum: 4)     <--- key
     ais_nanidi  DMDESTIDX    (ushort: 12)

         User, Compacted and Stored Tuple Layout AISCLS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                         |       |                         |       |
  0 |        aisanidi         | aiscls|       ais_nanidi        |*******|
    |---------------+---------------+---------------+---------------|
                              ( 4 bytes )
```

## 4. Population Rules for RLaiscls

### Relation Description

Automatic intercept system class.

This relation is keyed by the intercept class. For each class, the relation contains two destination indexes; one used if ANI is available, the other if ANI is not available. If populated, these indexes are used in expanded call type determination. All intercept calls receive treatment based on the data entered in this relation, and the data for intercept entered in RLac_cqdet. If there is no data for the call in this relation, or if the destination index for the call is blank, then the intercept data in RLac_cqdet is used with no destination index.

The maximum number of tuples is 16.

**Attribute: aiscls**

**Fullname:** Intercept class.

**Attribute Description:** Class of intercept.

**Attribute: aisanidi**

**Fullname:** Destination index with ANI.

**Attribute Description:** Destination index for expanded call type determination, which is used if ANI is available. This cannot be zero if ais_nanidi is zero. Zero is not allowed on the RC/ODA form. It is

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equivalent to unknown.

**Attribute: ais_nanidi**

**Fullname:** Destination index without ANI.

**Attribute Description:** Destination index for expanded call type determination, which is used if ANI is not available (ANI fail or ONI). This cannot be zero if aisanidi is zero. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

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# AIU2AP

## 1. Description

This relation describes all the Application Packs on an AIU.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 126 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | TLA |
| trigger function | PCtraiu2ap |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
AIU2AP      relid = 2571  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL


     aiuno       DMUNITNO     (ushort: 8)       <--- key
     name00      DMCIRCUIT    (ushort)
     name01      DMCIRCUIT    (ushort)
     name02      DMCIRCUIT    (ushort)
     name03      DMCIRCUIT    (ushort)
     name04      DMCIRCUIT    (ushort)
     name05      DMCIRCUIT    (ushort)
     name06      DMCIRCUIT    (ushort)
     name07      DMCIRCUIT    (ushort)
     name08      DMCIRCUIT    (ushort)
     name09      DMCIRCUIT    (ushort)
     name10      DMCIRCUIT    (ushort)
     name11      DMCIRCUIT    (ushort)
     name12      DMCIRCUIT    (ushort)
     name13      DMCIRCUIT    (ushort)
     name14      DMCIRCUIT    (ushort)
     name15      DMCIRCUIT    (ushort)
     name16      DMCIRCUIT    (ushort)
     name17      DMCIRCUIT    (ushort)
     name18      DMCIRCUIT    (ushort)
     name19      DMCIRCUIT    (ushort)
     sealcmap    DMUNL20      (ulong: 20)
     dpidb00mask  DMHEX32      (ulong)
     dpidb01mask  DMHEX32      (ulong)
     dpidb02mask  DMHEX32      (ulong)
     dpidb03mask  DMHEX32      (ulong)
     dpidb04mask  DMHEX32      (ulong)
     dpidb05mask  DMHEX32      (ulong)
     dpidb06mask  DMHEX32      (ulong)
     dpidb07mask  DMHEX32      (ulong)
     dpidb08mask  DMHEX32      (ulong)
     dpidb09mask  DMHEX32      (ulong)
```

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```
    dpidb10mask  DMHEX32      (ulong)
    dpidb11mask  DMHEX32      (ulong)
    dpidb12mask  DMHEX32      (ulong)
    dpidb13mask  DMHEX32      (ulong)
    dpidb14mask  DMHEX32      (ulong)
    dpidb15mask  DMHEX32      (ulong)
    dpidb16mask  DMHEX32      (ulong)
    dpidb17mask  DMHEX32      (ulong)
    dpidb18mask  DMHEX32      (ulong)
    dpidb19mask  DMHEX32      (ulong)
(a) comdac_config  DMUNIT_CFG   (enum: 2)
(b) shelf_size  DMSHELF_SZ   (enum: 2)
(c) eref0_eqp   DMBOOL       (enum: 1)
(d) eref1_eqp   DMBOOL       (enum: 1)
    ext_rg0     DMCIRCUIT    (ushort)
    ext_rg1     DMCIRCUIT    (ushort)
    risitid     DMRISITID    (ushort: 10)
(e) cable_series  DMCABLE      (enum: 2)
    distance    DMCOUNT      (ushort)
    shelf       DMXAIUSHLF   (enum: 3)
        User, Compacted and Stored Tuple Layout AIU2AP
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |               |                               |
 0 |     aiuno     |***************|             name00             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |             name01            |             name02            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |             name03            |             name04            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |             name05            |             name06            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |             name07            |             name08            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |             name09            |             name10            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
24 |             name11            |             name12            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
28 |             name13            |             name14            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
32 |             name15            |             name16            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
36 |             name17            |             name18            |
   |---------------+---------------+---------------+---------------|
```

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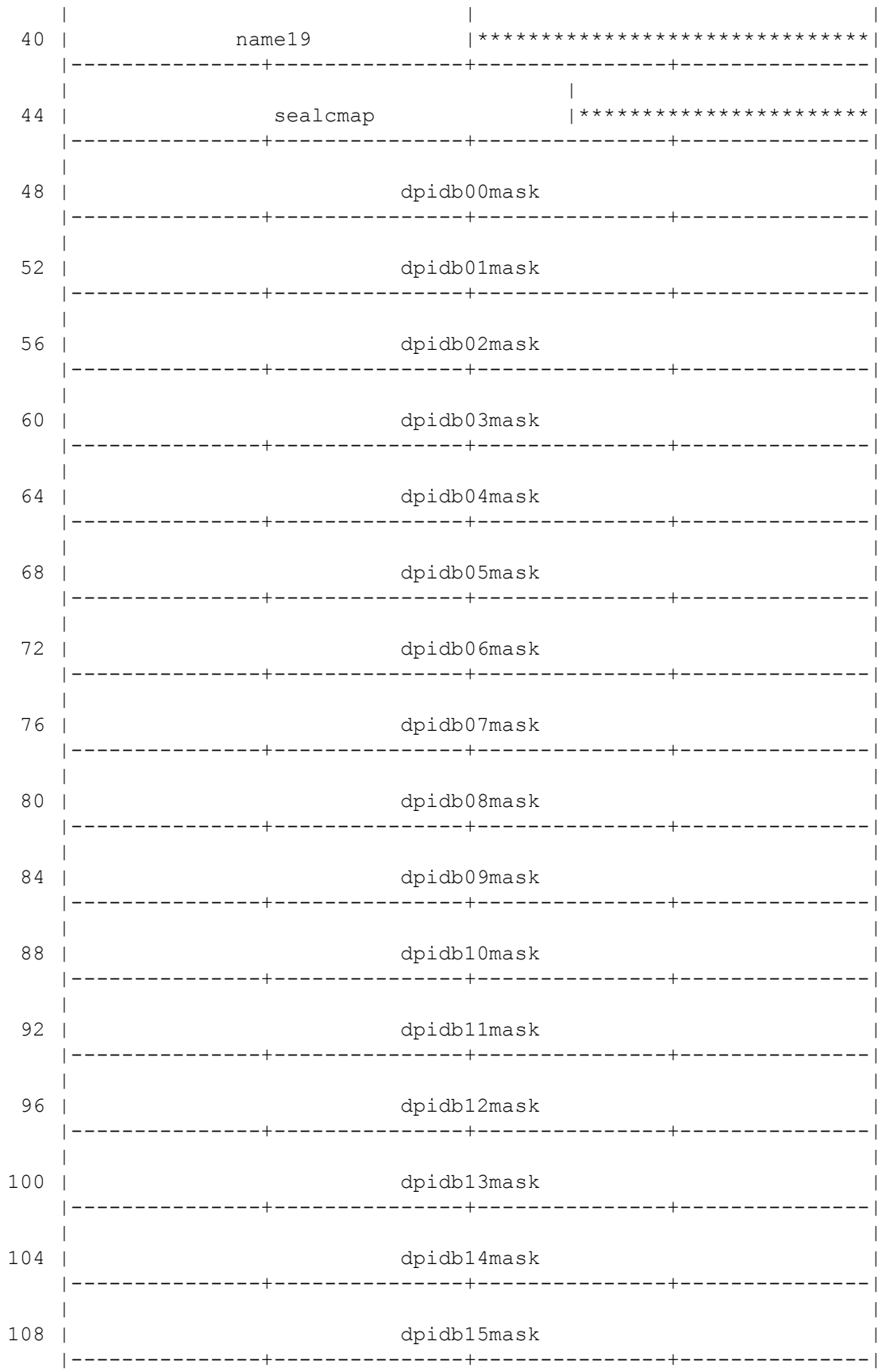


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```
    |                                                                   |
112 |                          dpidb16mask                              |
    |--------------+--------------+--------------+--------------|
    |                                                                   |
116 |                          dpidb17mask                              |
    |--------------+--------------+--------------+--------------|
    |                                                                   |
120 |                          dpidb18mask                              |
    |--------------+--------------+--------------+--------------|
    |                                                                   |
124 |                          dpidb19mask                              |
    |--------------+--------------+--------------+--------------|
    |   |   | | |                  |                                    |
128 | a | b |c|d|******************|            ext_rg0                 |
    |--------------+--------------+--------------+--------------|
    |                              |                   |   |       |
132 |            ext_rg1           |      risitid      | e |*******|
    |--------------+--------------+--------------+--------------|
    |                              |     |                           |
136 |            distance          |shelf|***************************|
    |--------------+--------------+--------------+--------------|
       ( 140 bytes )


domain alAIU2AP   struct  (14 sub-attributes)
         aiuno       .4.fake      (ushort)
         name        .5.fake      (array [ 20 ] of unsigned short )
         sealcmap    .6.fake      (ulong: 20)
         dpidbmask   .7.fake      (array [ 20 ] of unsigned long )
 (a)     comdac_config  .0fake       (enum)
 (b)     shelf_size  .8.fake      (enum: 2)
 (c)     eref0_eqp   .2fake       (enum)
 (d)     eref1_eqp   .2fake       (enum)
         ext_rg0     unsigned short (ushort)
         ext_rg1     unsigned short (ushort)
         risitid     .9.fake      (ushort: 10)
 (e)     cable_series  .3fake       (enum)
         distance    unsigned short (ushort)
         shelf       .4fake       (enum)
                     Structure Layout      alAIU2AP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |               |              |                              |
  0 |     aiuno     |**************|              name            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                              |
  4 |                              name                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                              |
  8 |                              name                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                    .
                                    .
```

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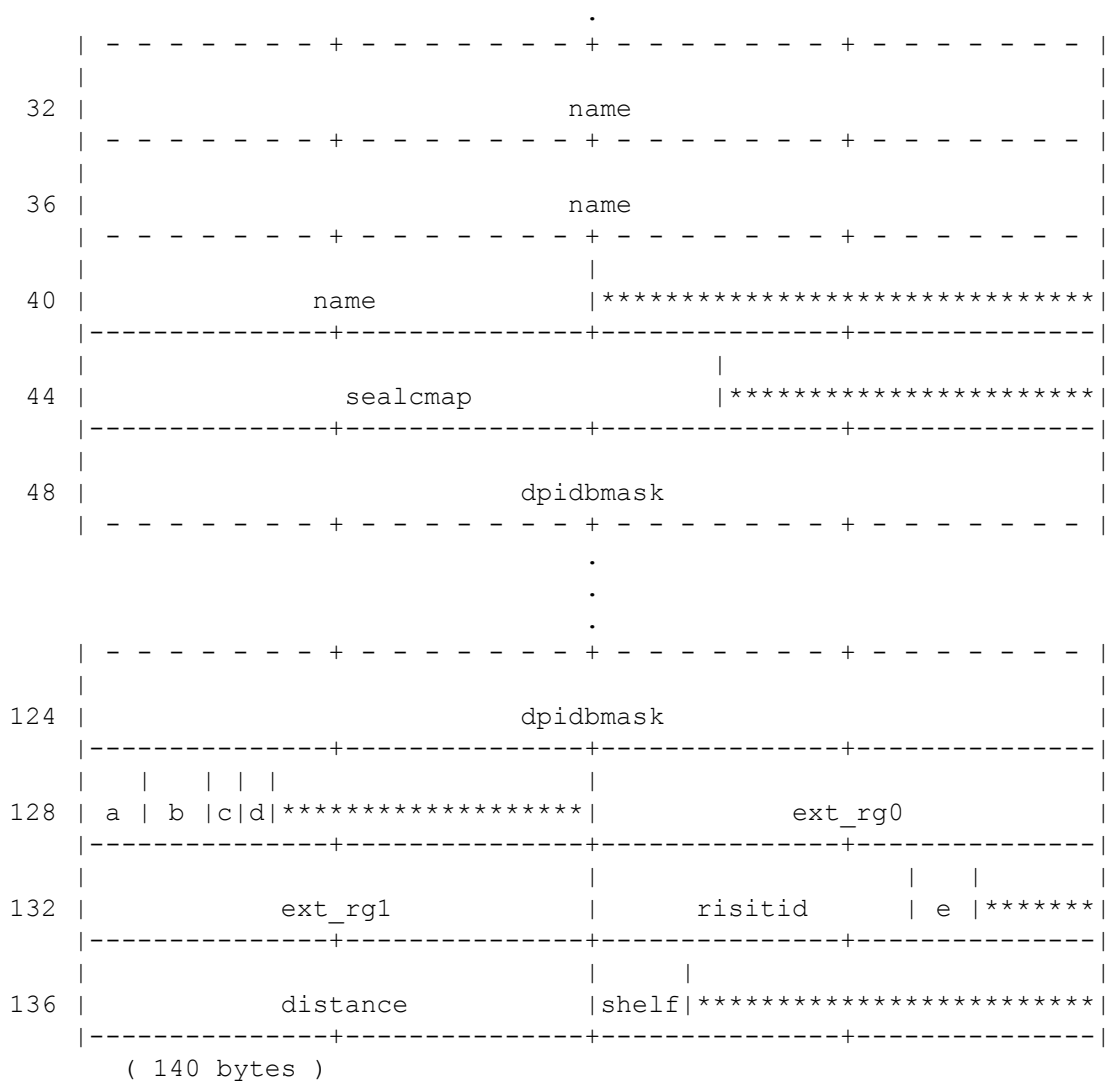


## 4. Population rules for RLaiu2ap

### Relation Description

(*)AIU APPLICATION PACK Information

This relation is used for information related to AIU application packs (APs). 600MM shelf AIU has maximum 20 APs and the 500MM shelf AIU AIU has a maximum of 14 APs that may be Line Packs (LPs) and Ring Generators (RGs) or a Test Pack (Test AP)..
Line Packs can be equipped from AP 0 - 19 in a 600MM shelf and AP 0 - 14 in a 500MM shelf.
When RGs are equipped in the 600MM, they are always resided on the APs 17 and 19; and the AP 16 and 18 have to be null.
When RGs are equipped in the 500MM, they are always resided on the APs 11 and 13; and the AP 10 and 12 have to be null.

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**Attribute:**
aiuno

**Fullname:**
Access Interface Unit Number

**Attribute Description:**
Unit number of a Access Interface Unit.

**Attribute:**
name[*]

**Fullname:**
Application Pack Circuit name in position N. (note: N = * )

**Attribute Description:**
For the 20 possible positions for the application packs.
This attribute holds the application pack circuit name
either an LP name, RG, or Test AP name.

**Attribute:**
comdac_config

**Fullname:**
Comdac equipage of (*)AIU.

**Attribute Description:**
The attribute holds comdac equipage of (*)AIU.

**Attribute:**
shelf_size

**Fullname:**
(*)AIU Comdac shelf size.

**Attribute Description:**
The attribute holds shelf size of (*)AIU.

**Attribute:**
eref0_eqp

**Fullname:**
External clk reference 0

**Attribute Description:**
The attribute holds status of external clk reference 0.

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**Attribute:**
eref1_eqp

**Fullname:**
External clk reference 1

**Attribute Description:**
The attribute holds status of external clk reference 1.

**Attribute:**
ext_rg0

**Fullname:**
External Ring Generator 0.

**Attribute Description:**
Circuit name of external ring generator number 0.

**Attribute:**
ext_rg1

**Fullname:**
External Ring Generator 1.

**Attribute Description:**
Circuit name of external ring generator number 1.

**Attribute:**
risitid

**Fullname:**
Remote peripheral site id.

**Attribute Description:**
The attribute holds site id of site where RAIU is remoted.

**Attribute:**
cable_series

**Fullname:**
Cable series type name

**Attribute Description:**
type of backplane cable used

**Attribute:**
distance

**Fullname:**

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distance

**Attribute Description:**
cable distance

**Attribute:**
sealcmap

**Fullname:**
Application Pack Circuit sealing current map.

**Attribute Description:**
This attribute holds the sealing current option for every application pack in the AIU. This is a 20-bit bit map to represent the option to turn ON/OFF the sealing current of an AP. If the bit is 1, the sealing current will be turned ON for AP pack that corresponds to the position of the bit map.

**Attribute:**
dpidb[*]mask

**Fullname:**
Mask for available AIU PCM timeslots

**Attribute Description:**
The attribute dpidb[*]mask is a 32 bit mask that specifies the PCM timeslots on an AP that are reserved for DPIDB permanent connections to the PSU.

The low order bit represents PCM/AP timeslot 0, the high order bit represents PCM/AP timeslot 31. A bit set to '0' indicates a timeslot used for DPIDB connection.

The default value is 0xffffffff, representing no dpidb timeslots are used. This will be true for any AP on a RAIU, since DPIDBs are not allowed for RAIU, and for any with NO operational or assigned digital (U or T) line circuits.

The actual timeslots chosen for DPIDB connection can be found in the relations RLdpidb_pt and RLdslequip.

When allocating timeslots for D-channels, up to 4 quarter timeslots from the same AP may share a PCM timeslot. This is called piggybacking timeslots. A piggy-backed timeslot is preferred over using a previously empty timeslot.

The following diagram shows which DPIDB's and timeslots may be used to connect D-channels from an AP to the PSU:

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```
                3         2         1
  TS# -->   10987654321098765432109876543210
AP0            x   x   x   x   x   x   x   x
AP1          y   y   y   y   y   y   y   y
AP2          z   z   z   z   z   z   z   z
AP3        t   t   t   t   t   t   t   t
AP4            x   x   x   x   x   x   x   x
AP5          y   y   y   y   y   y   y   y
AP6          z   z   z   z   z   z   z   z
AP7        t   t   t   t   t   t   t   t
AP8            x   x   x   x   x   x   x   x
AP9          y   y   y   y   y   y   y   y
AP10         z   z   z   z   z   z   z   z
AP11       t   t   t   t   t   t   t   t
AP12           x   x   x   x   x   x   x   x
AP13         y   y   y   y   y   y   y   y
AP14         z   z   z   z   z   z   z   z
AP15       t   t   t   t   t   t   t   t
AP16           x   x   x   x   x   x   x   x
AP17         y   y   y   y   y   y   y   y
AP18         z   z   z   z   z   z   z   z
AP19       t   t   t   t   t   t   t   t
```

| Application pack | Time slot assignment | |
|---|---|---|
| 0, 4, 8, 12, 16 | 0, 4, 8, 12, 16, 20, 24, 28 | <= x |
| 1, 5, 9, 13, 17 | 1, 5, 9, 13, 17, 21, 25, 29 | <= y |
| 2, 6, 10, 14, 18 | 2, 6, 10, 14, 18, 22, 26, 30 | <= z |
| 3, 7, 11, 15, 19 | 3, 7, 11, 15, 19, 23, 27, 31 | <= t |

x: time slot group (0, 4, 8, 12, 16, 20, 24, 28)
y: time slot group (1, 5, 9, 13, 17, 21, 25, 29)
z: time slot group (2, 6, 10, 14, 18, 22, 26, 30)
t: time slot group (3, 7, 11, 15, 19, 23, 27, 31)

Time slot groups are independent of DPIDBs.

A selected time slot on a DPIDB for an AP pack will meet the previous criteria if the following equation is satisfied:

```
ts % 4 == ap_no % 4
```

**Attribute:**
shelf

**Fullname:**
XAIU shelf relative to PDXU

**Attribute Description:**
This attribute will describe the XAIU shelf relative to PDXU. This shelf position will determine the TSGRP <-> FPIDB mapping between the XAIU and PDXU.

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# AIU2RG

## 1. Description

This relation contains the mapping of Access Interface Unit (AIU) to which Ring Generator (RG) services that AIU.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 126 |
| expected number of tuples | 105 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | TLA |
| trigger function | PCtr_ai2rg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| padding indicator | unpadded |
| permutation type | perm |

## 3. Field Layout

```
AIU2RG      relid = 2566  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     rg0name     DMCIRCUIT    (ushort)
     rg1name     DMCIRCUIT    (ushort)
     aiu_no      DMUNITNO     (ushort: 8)       <--- key
     hostaiu     DMUNITNO     (ushort: 8)
 (a) rg0_ext     DMBOOL       (enum: 1)
 (b) rg1_ext     DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout AIU2RG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |            rg0name             |            rg1name            |
    |---------------+---------------+---------------+---------------|
    |               |               | | |                           |
  4 |     aiu_no    |    hostaiu    |a|b|***************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLaiu2rg

### Relation Description

```
        Access Interface Unit ((*)AIU) to Ring Generator (RG)

        This relation, when given an (*)AIU number, tells which RG
        services that particular (*)AIU.  It also gives RG physical
        mate and if these 2 RGs are hosted by this (*)AIU.
```

**Attribute:**

```
        aiu_no
```

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**Fullname:**
Access Interface Unit Number
**Attribute Description:**
The number of the AIU.

**Attribute:**
rg0name
**Fullname:**
Ring Generator 0
**Attribute Description:**
The first RG servicing this AIU.

**Attribute:**
rg1name
**Fullname:**
Ring Generator 1
**Attribute Description:**
The second RG servicing this AIU.

**Attribute:**
hostaiu
**Fullname:**
hosting Access Interface Unit
**Attribute Description:**
This is the AIU that hosts (physically contains) rg0name and rg1name.

**Attribute:**
rg0_ext
**Fullname:**
ring generator 0 not on (*)AIU
**Attribute Description:**
Attribute set to DBYES if RG0 is physically not on (*)AIU frame.

**Attribute:**
rg1_ext
**Fullname:**
ring generator 1 not on (*)AIU
**Attribute Description:**
Attribute set to DBYES if RG1 is physically not on (*)AIU frame.

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# AIUPIDB

## 1. Description

This relation describes the type and the connections of PIDBs associated with a AIU service group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 252 |
| expected number of tuples | 50 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | TLA |
| trigger function | PCtraipidb |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| padding indicator | unpadded |
| permutation type | un_perm |

## 3. Field Layout

```
AIUPIDB     relid = 2567  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     picb        DMPICB       (ushort)  <--- key
     dchan       DMDCHAN      (enum: 4)
     pidb0       DMAIUPIDB    (struct)
         name        DMCIRCUIT    (ushort)
         type        DMPIDBTYPE   (enum: 4)
         assoc       DMCIRCUIT    (ushort)
         assoc_dp    DMUCHAR      (uchar)
     pidb1       DMAIUPIDB    (struct)
         name        DMCIRCUIT    (ushort)
         type        DMPIDBTYPE   (enum: 4)
         assoc       DMCIRCUIT    (ushort)
         assoc_dp    DMUCHAR      (uchar)
     pidb2       DMAIUPIDB    (struct)
         name        DMCIRCUIT    (ushort)
         type        DMPIDBTYPE   (enum: 4)
         assoc       DMCIRCUIT    (ushort)
         assoc_dp    DMUCHAR      (uchar)
     pidb3       DMAIUPIDB    (struct)
         name        DMCIRCUIT    (ushort)
         type        DMPIDBTYPE   (enum: 4)
         assoc       DMCIRCUIT    (ushort)
         assoc_dp    DMUCHAR      (uchar)
     pidb4       DMAIUPIDB    (struct)
         name        DMCIRCUIT    (ushort)
         type        DMPIDBTYPE   (enum: 4)
         assoc       DMCIRCUIT    (ushort)
         assoc_dp    DMUCHAR      (uchar)
     pidb5       DMAIUPIDB    (struct)
         name        DMCIRCUIT    (ushort)
         type        DMPIDBTYPE   (enum: 4)
         assoc       DMCIRCUIT    (ushort)
```

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```
        assoc_dp    DMUCHAR      (uchar)
    pidb6       DMAIUPIDB    (struct)
        name        DMCIRCUIT    (ushort)
        type        DMPIDBTYPE   (enum: 4)
        assoc       DMCIRCUIT    (ushort)
        assoc_dp    DMUCHAR      (uchar)
    pidb7       DMAIUPIDB    (struct)
        name        DMCIRCUIT    (ushort)
        type        DMPIDBTYPE   (enum: 4)
        assoc       DMCIRCUIT    (ushort)
        assoc_dp    DMUCHAR      (uchar)
    pidb8       DMAIUPIDB    (struct)
        name        DMCIRCUIT    (ushort)
        type        DMPIDBTYPE   (enum: 4)
        assoc       DMCIRCUIT    (ushort)
        assoc_dp    DMUCHAR      (uchar)
    pidb9       DMAIUPIDB    (struct)
        name        DMCIRCUIT    (ushort)
        type        DMPIDBTYPE   (enum: 4)
        assoc       DMCIRCUIT    (ushort)
        assoc_dp    DMUCHAR      (uchar)
    pidb10      DMAIUPIDB    (struct)
        name        DMCIRCUIT    (ushort)
        type        DMPIDBTYPE   (enum: 4)
        assoc       DMCIRCUIT    (ushort)
        assoc_dp    DMUCHAR      (uchar)
    pidb11      DMAIUPIDB    (struct)
        name        DMCIRCUIT    (ushort)
        type        DMPIDBTYPE   (enum: 4)
        assoc       DMCIRCUIT    (ushort)
        assoc_dp    DMUCHAR      (uchar)
        User, Compacted and Stored Tuple Layout    AIUPIDB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |       |                       |
 0  |              picb             | dchan |***********************|
    |===============+============ pidb0 ============+===============|
    |                               |       |                       |
 4  |              name             |  type |***********************|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
 8  |             assoc             |    assoc_dp   |***************|
    |===============+============ pidb1 ============+===============|
    |                               |       |                       |
 12 |              name             |  type |***********************|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
 16 |             assoc             |    assoc_dp   |***************|
    |===============+============ pidb2 ============+===============|
    |                               |       |                       |
 20 |              name             |  type |***********************|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
```

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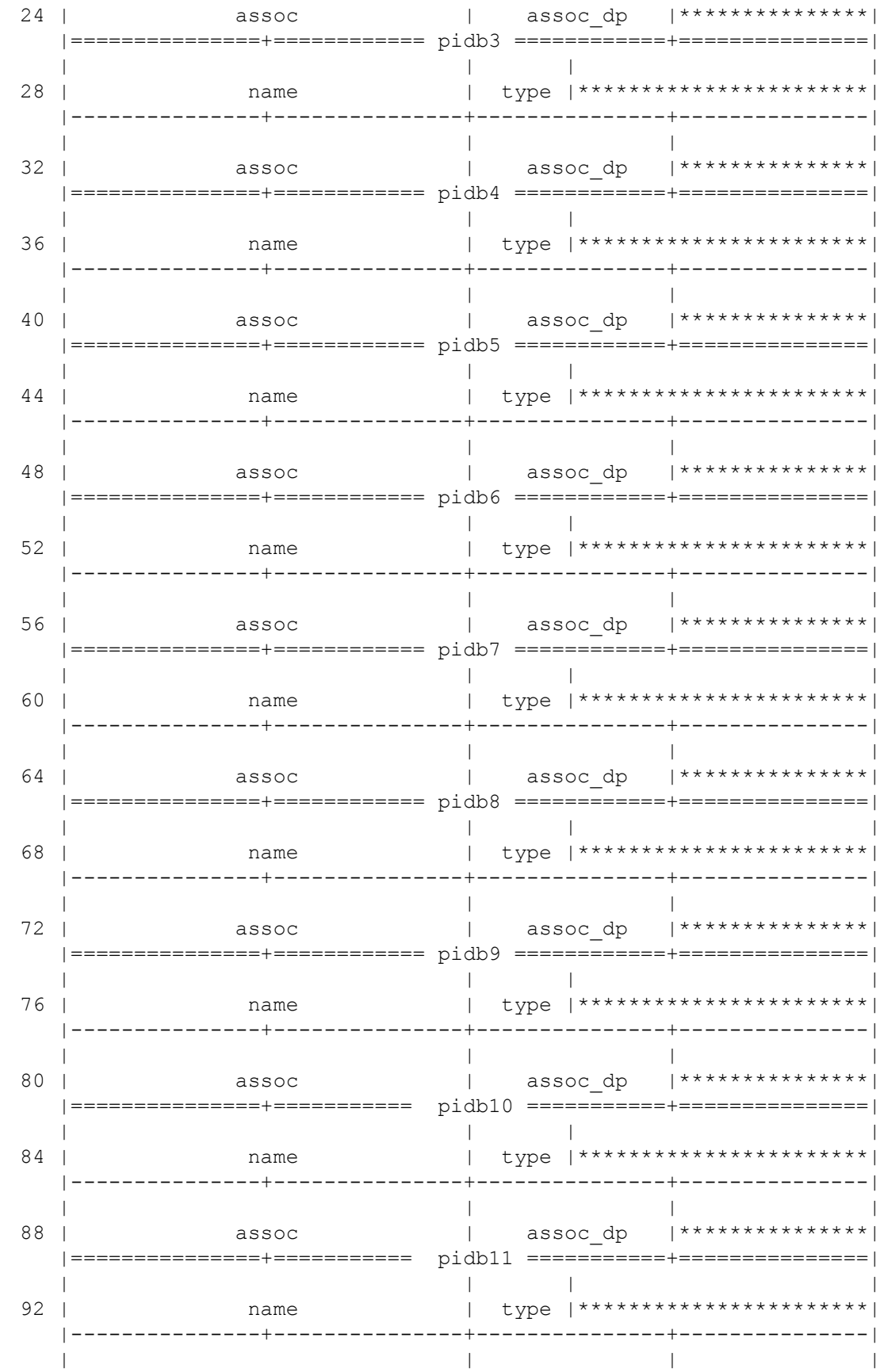


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```
 96 |             assoc             |    assoc_dp   |***************|
    |===============+===============+===============+===============|
       ( 100 bytes )


domain alAIUPIDB  struct  (3 sub-attributes)
         picb        unsigned short (ushort)
         dchan       .1.fake      (enum: 4)
         pidb        .2.fake      (array [ 12 ] of .1fake )
             name        unsigned short (ushort)
             type        .0fake       (enum)
             assoc       unsigned short (ushort)
             assoc_dp    unsigned char (uchar)
                    Structure Layout     alAIUPIDB
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |       |                       |
  0 |               picb            | dchan |***********************|
    |===============+=========== pidb[0] ===========+===============|
    |                               |       |                       |
  4 |               name            |  type |***********************|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  8 |             assoc             |    assoc_dp   |***************|
    |===============+=========== pidb[1] ===========+===============|
    |                               |       |                       |
 12 |               name            |  type |***********************|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
 16 |             assoc             |    assoc_dp   |***************|
    |===============+=========== pidb[2] ===========+===============|
    |                               |       |                       |
 20 |               name            |  type |***********************|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
 24 |             assoc             |    assoc_dp   |***************|
    |===============+=========== pidb[3] ===========+===============|
    |                               |       |                       |
 28 |               name            |  type |***********************|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
 32 |             assoc             |    assoc_dp   |***************|
    |===============+=========== pidb[4] ===========+===============|
    |                               |       |                       |
 36 |               name            |  type |***********************|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
 40 |             assoc             |    assoc_dp   |***************|
    |===============+=========== pidb[5] ===========+===============|
    |                               |       |                       |
 44 |               name            |  type |***********************|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
```

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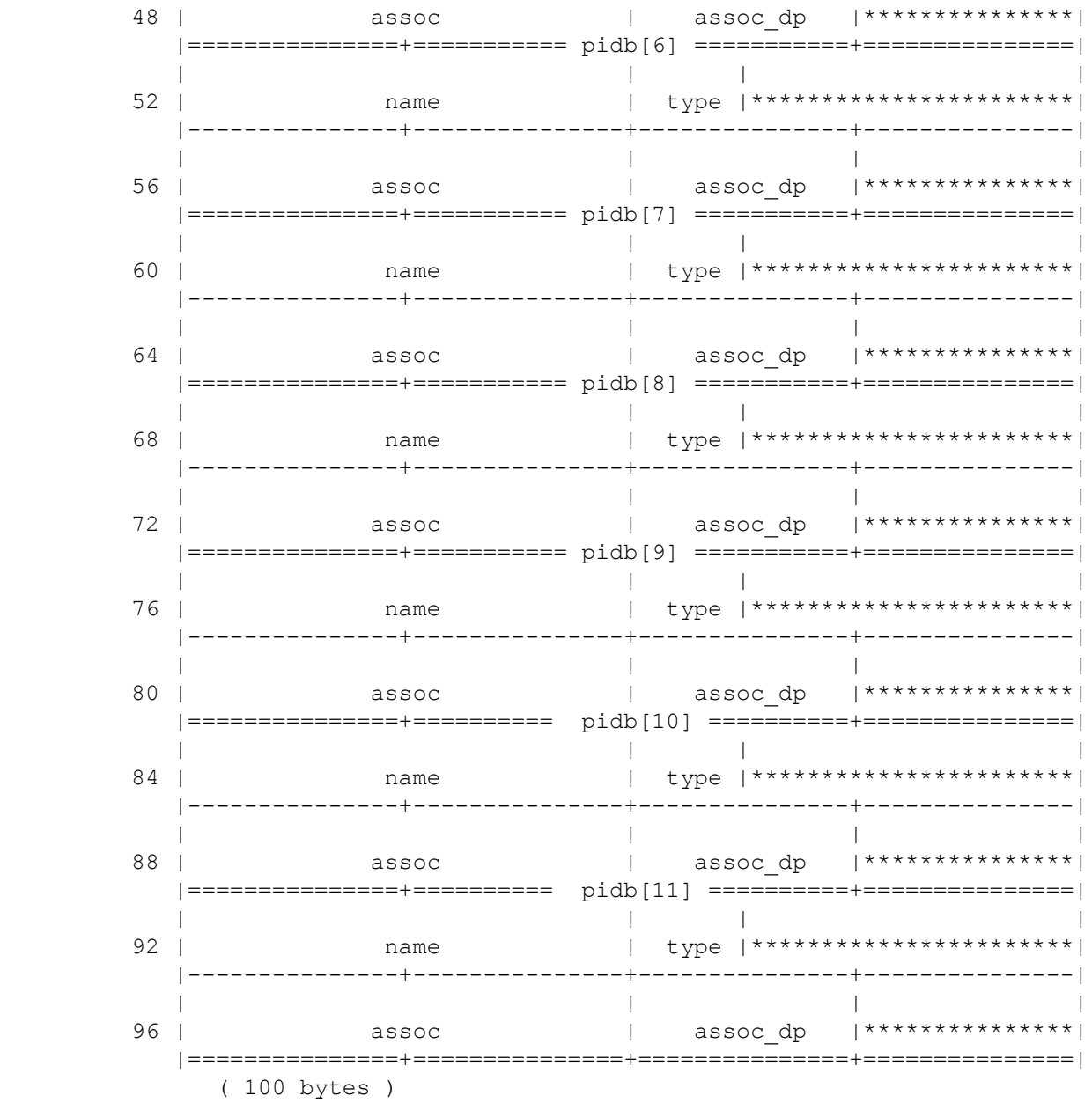


## 4. Population rules for RLaiupidb

**Relation Description**

Access Interface Unit ((*)AIU) Peripheral Interface Data Bus (PIDB) connections

This relation describes the type and the connections of PIDBs associated with a (*)AIU service group.

**Attribute:**

picb

**Fullname:**

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Peripheral Interface Control Bus

**Attribute Description:**

The PICB of the service group.
A corresponding tuple is required in RLpicb,
with unittype of SMAIU, SMRAIU, SMXAIU for AIU

**Attribute:**

dchan

**Fullname:**

D-Channel Type

**Attribute Description:**

Valid values are PCDCUT for cut-through and PCDIRCON for directly connected. For local AIU, if there is no ISDN pack in the unit, then dchan must be set to PCNODCHAN. If dchan value is PCDCUT, there must not be any PIDB's of type PCDPIDB.

All D-channels on an AIU must be on DPIDB's, terminating at the PSU. All D-channels on a RAIU must be on PCAIU PIDB's.
The cut-through type of D-channel is not supported for AIU's (it is support on RAIU's) when DSL's are present.

**Attribute:**

pidb[*]

**Fullname:**

PIDB

**Attribute Description:**

The 'x'th connection on the COMDAC.
This attribute is a structure of the following form:

| | |
|---|---|
| name | The circuit name of the PIDB in rlCKTDATA, and is of type DMCIRCUIT. |
| type | The PIDB type of the PIDB, and is of type DMPIDBTYPE. |
| assoc | The circuit to which the PIDB is attached, and is of type DMCIRCUIT. |
| assoc_dp | The position on the PSIU shelf of a directly connected PIDB. |

**Attribute:**

pidb[*].name

**Fullname:**

Circuit Name

**Attribute Description:**

The circuit name of the PIDB. The PIDB must be represented in RLcktdata and vice versa.

If the pidb is not present in CKTDATA, then the name should be set to 0.

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**Attribute:**
pidb[*].type
**Fullname:**
PIDB Type
**Attribute Description:**
PIDB type from DMpidbtype.

PCAIUPIDB : the PIDB in the AIU provides a path to the TSIU. This type is only valid on an AIU. PIDBs of this type must terminate on a TSIU. When on a RAIU it is extended via a facility.

PIDBs of type PCAIUPIDB always have a 'mate' PIDB on the other AIU service group. This reflects the fact that these PIDBs are grown in pairs. This is not true for a RAIU since a RAIU can have a SIMPLEX configuration.

'Mate' AIU PIDBs that connect to the TSIU (such as PCAIUPIDB) must connect to the same TSIU DI at paired DI connections (0,1), (2,3), (4,5),(6,7),(8,9),(10,11),(12,13) or (14,15) ... (22,23). The 'mate' PIDB from AIU service group 0 must go to lower member of the pair and must be even. Therefore, the mate PIDB from AIU service group 1 must connect to the higher member of the pair.

The 'pidb' attribute in RLcktdata for each PIDB of type PCAIUPIDB must reflect the correct DI connection for that PIDB.

A PIDB of this type has an entry in RLpidb. A PTSB is allocated in dynamic data for each of the 32 time slots on the PIDB. For each PCAIUPIDB, there must be a PCAIUPIDB with the same PIDB number on the other COMDAC(that is, the PCAIUPIDBs must be equipped in pairs.)

PCDPIDB : the PIDB is one of a pair of PIDBs running in the AIU. PIDBs of type PCDPIDB must terminate at the PSIU. It is not allowed to connect any AIU PIDB of type PCDPIDB to a PSU shelf of circuit data type PCSHLFPSIU, with a cli of DGDFMP.

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Note: If the PIDB is not present in CKTDATA,
then the type field should be set to
PCNULLPIDB as a default value.

**Attribute:**
pidb[*].assoc
**Fullname:**
Associated Circuit
**Attribute Description:**
The circuit the PIDB is associated with:

If PIDB 'type' is PCAIUPIDB,
populate 'assoc_ckt' with 0xffff.

If PIDB 'type' is PCDPIDB,
populate 'assoc_ckt' with the side 0 PSIU shelf
circuit name to which the PIDB is attached.
The RLpsiupidb relation tuple keyed with this
shelf name should contain this PIDB name in
one of the attributes dpidb00 through dpidb10.

Note: If the PIDB is not present in CKTDATA,
then the assoc_ckt field
should be set to NULL ( 0xffff)
as a default value.

**Attribute:**
pidb[*].assoc_dp
**Fullname:**
Packet Switch Interface Unit (PSIU) position of a directly
connected PIDB.
**Attribute Description:**
The position of the PIDB connection on the PSIU shelf for a
directly connected PIDB. The PIDB in position XX should be
the same as the PIDB named in the dpidbXX attribute in the
RLpsiupidb relation.
This attribute should be 0 if the PIDB 'type' is not PCDPIDB.

**Defines:**
"db/DMclidef.h"

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# ALGTMRS

## 1. Description

This relation provide values for SS7 protocol alignment timers per signaling link data rate.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 5 |
| expected number of tuples | 3 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCalgtmtrg |
| insert trigger | DBNO |
| update trigger | DBYES |
| delete trigger | DBNO |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
ALGTMRS     relid = 2353  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL

     eprov_tm    DMTAG        (ushort)
     nprov_tm    DMTAG        (ushort)
     remcng_tm   DMTAG        (ushort)
     delack_tm   DMTAG        (ushort)
     l2T5_tm     DMTAG        (ushort)
     dslrate     DMDSLRATE    (enum: 5)     <--- key
     algrd_tm    DMRANGE      (long)
     nalg_tm     DMRANGE      (long)
     alg_tm      DMRANGE      (long)
     nalglow_tm  DMRANGE      (long)
     nalghigh_tm  DMRANGE      (long)

         User, Compacted and Stored Tuple Layout    ALGTMRS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             eprov_tm          |             nprov_tm          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            remcng_tm          |            delack_tm          |
    |---------------+---------------+---------------+---------------|
    |                               |         |                     |
  8 |             l2T5_tm           | dslrate |*********************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                            algrd_tm                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                            nalg_tm                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                             alg_tm                            |
```

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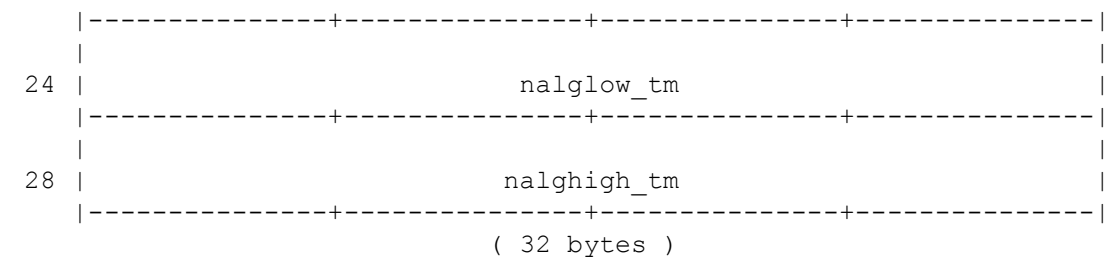


## 4. Population Rules for RLalgtmrs

**Relation Description**

Level 2 MTP alignment timers

This relation determines the values of level 2 MTP alignment timers given the data rate of the signaling link as input.

**Attribute: dslrate**

**Fullname:** data signaling rate

**Attribute Description:** The rate of the data link in Kbps. This is the key of the relation.

**Attribute: nalghigh_tm**

**Fullname:** Not Aligned Timer (high timer)

**Attribute Description:** The high timer (T2high) which is used during the Not Aligned state of Initial Alignment Control only when Automatic Allocation of Signaling Data Links is being used.

**Attribute: nalglow_tm**

**Fullname:** Not Aligned Timer (low timer)

**Attribute Description:** The low timer (T2low) which is used during the Not Aligned state of Initial Alignment Control only when Automatic Allocation of Signaling Data Links is being used.

**Attribute: l2T5_tm**

**Fullname:** Status Indication Busy Timer

**Attribute Description:** This is T5 timer used when a receiving end of a signaling link detecting a congestion situation. The receiving end periodically returns a link status signal unit containing a status indication "B" (for busy) to the remote transmitting end of the link at interval T5.

**Attribute: nprov_tm**

**Fullname:** Normal Proving Timer

**Attribute Description:** This is T4n timer used during the Proving state when there is no emergency condition. This is the normal proving period.

**Attribute: delack_tm**

**Fullname:** Excessive delay of acknowledgement Timer

**Attribute Description:** The timer ( T7 ) specifies the maximum time to wait for the acknowledgment of a transmitted MSU.

**Attribute: alg_tm**

**Fullname:** Aligned Ready Timer

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**Attribute Description:** This is T3 timer used during the Aligned state of Initial Alignment Control.

**Attribute: remcng_tm**

**Fullname:** Remote Congestion Timer

**Attribute Description:** The timer ( T6 ) specifies the maximum time to wait for remote congestion to clear.

**Attribute: nalg_tm**

**Fullname:** Not Aligned Timer.

**Attribute Description:** This is T2 timer used during the Not Aligned state of Initial Alignment Control.

**Attribute: algrd_tm**

**Fullname:** Alignment Ready Timer

**Attribute Description:** This is T1 timer used after we are aligned. This is the amount of time we will wait for the other side to align.

**Attribute: eprov_tm**

**Fullname:** Emergency Proving Timer

**Attribute Description:** This is T4e timer used during the Proving state when an emergency proving period is required.

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# ALIASPC

## 1. Description

This relation stores the alias point codes (ALIASPC) for NI LATA routing in ATT-NSD network. They are used for Network Interconnect messages only. The alias point codes in this relation are identical to the CNI data structure cDalspc[].

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 30 |
| expected number of tuples | 15 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTATIC |

## 3. Field Layout

```
ALIASPC     relid = 1930  DBSTATIC   DBACC_HASH  DBPRAM    LR      NULL

     alias_pc    DMPT_CODE    (ulong: 24)     <--- key

         User, Compacted and Stored Tuple Layout    ALIASPC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                     alias_pc                  |***************|
    |---------------+---------------+---------------+---------------|
                              ( 4 bytes )
```

## 4. Population Rules for RLaliaspc

### Relation Description

Alias Point Codes

This relation stores the ALIASPC for NI LATA routing feature in ATT-NSD network and is used for crosscheck purpose. The Alias Point Codes in this relation are identical to the CNI data structure cDalspc[ ].

**Attribute: alias_pc**

**Fullname:** Alias Point Code

**Attribute Description:** The Alias Point Codes in the toll switch are the point codes assigned to the switch in addition to its true office point code. They are used for Network Interconnect messages only. This will be a string of 9 decimal digits. The resultant number will be built as a hex value. The following format applies:

```
(Bits)  23             16 15      11 10     8 7               0
        +----------------+----------+--------+----------------+
        |    Network     |  Region  | Cluster|     Member     |
        |   Identifier   |          | ID     |                |
        +----------------+----------+--------+----------------+
The 9 digit externally defined POINT CODE is converted as:
(network identifier *2 ^16) +
```

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```
(region *2 ^11) +
(cluster *2 ^8) +
 member
```

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# ALT_DIG

## 1. Description

This relation contains the alternate announcement digit inflection scheme.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 500 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
ALT_DIG     relid = 2602  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL

     appl         DMANNC_APL    (enum: 4)     <--- key
     infl_id      DMANNC_ID     (ulong: 17)     <--- key
     alt_ann      DMUNS10       (ushort: 10)     <--- key
     dur          DMUNS8        (ushort: 8)
     spare1       DMUNS24       (ulong: 24)
     inflct01     DMUNLONG      (ulong)
     inflct02     DMUNLONG      (ulong)
     inflct03     DMUNLONG      (ulong)
     inflct04     DMUNLONG      (ulong)
     inflct05     DMUNLONG      (ulong)
     inflct06     DMUNLONG      (ulong)
     inflct07     DMUNLONG      (ulong)
     inflct08     DMUNLONG      (ulong)
     inflct09     DMUNLONG      (ulong)
     inflct10     DMUNLONG      (ulong)
     inflct11     DMUNLONG      (ulong)
     inflct12     DMUNLONG      (ulong)
     inflct13     DMUNLONG      (ulong)
     inflct14     DMUNLONG      (ulong)
     inflct15     DMUNLONG      (ulong)
     inflct16     DMUNLONG      (ulong)
     inflct17     DMUNLONG      (ulong)
     inflct18     DMUNLONG      (ulong)
     inflct19     DMUNLONG      (ulong)
     inflct20     DMUNLONG      (ulong)
     inflct21     DMUNLONG      (ulong)
     inflct22     DMUNLONG      (ulong)
     inflct23     DMUNLONG      (ulong)
     inflct24     DMUNLONG      (ulong)
     inflct25     DMUNLONG      (ulong)
     inflct26     DMUNLONG      (ulong)
     inflct27     DMUNLONG      (ulong)
     inflct28     DMUNLONG      (ulong)
     inflct29     DMUNLONG      (ulong)
     inflct30     DMUNLONG      (ulong)
     inflct31     DMUNLONG      (ulong)
```

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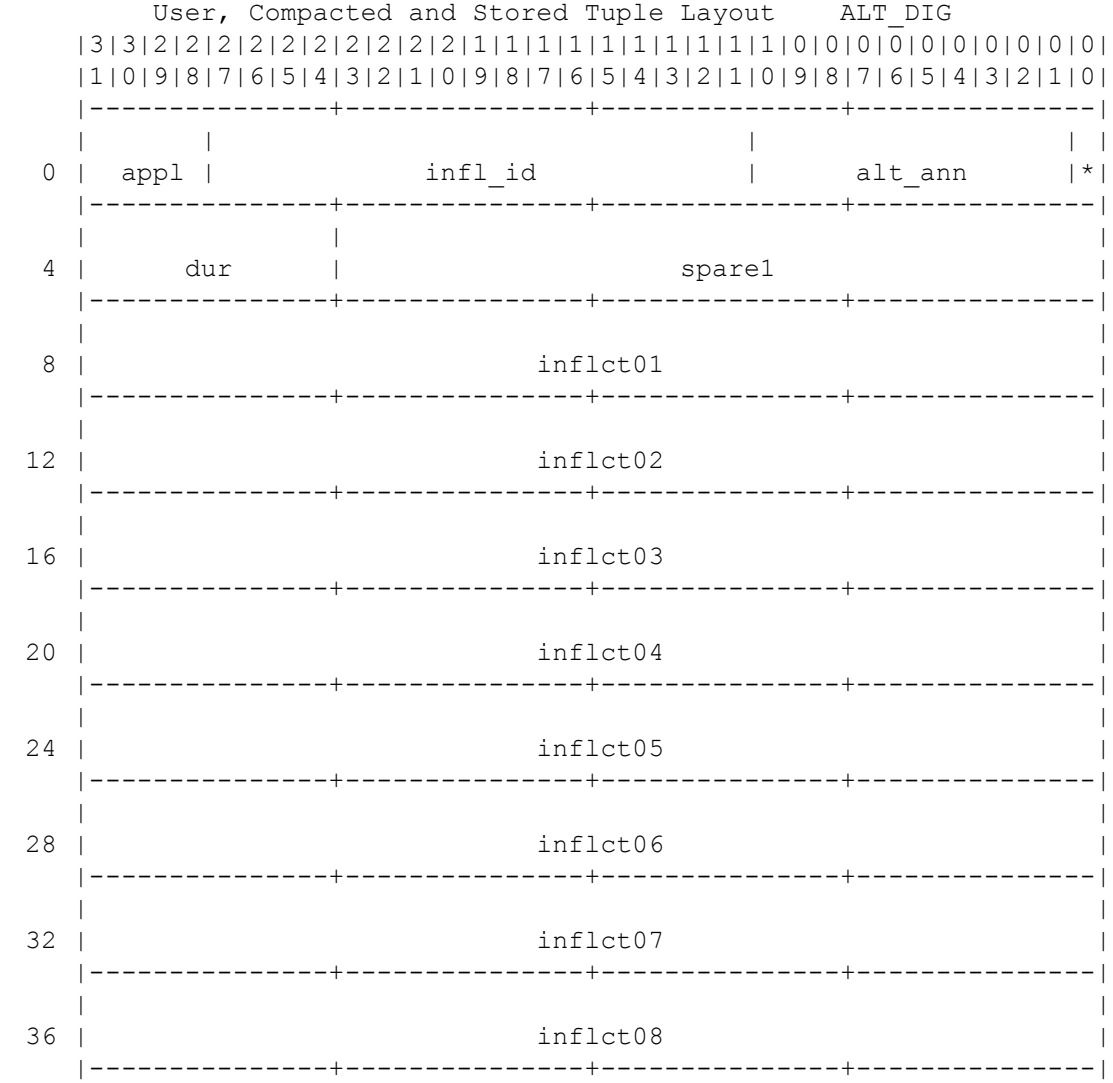
```
    inflct32    DMUNLONG     (ulong)
    inflct33    DMUNLONG     (ulong)
    inflct34    DMUNLONG     (ulong)
    inflct35    DMUNLONG     (ulong)
    inflct36    DMUNLONG     (ulong)
    inflct37    DMUNLONG     (ulong)
    inflct38    DMUNLONG     (ulong)
    inflct39    DMUNLONG     (ulong)
    inflct40    DMUNLONG     (ulong)
    inflct41    DMUNLONG     (ulong)
    inflct42    DMUNLONG     (ulong)
    inflct43    DMUNLONG     (ulong)
    inflct44    DMUNLONG     (ulong)
    inflct45    DMUNLONG     (ulong)
    inflct46    DMUNLONG     (ulong)
    inflct47    DMUNLONG     (ulong)
    inflct48    DMUNLONG     (ulong)
    inflct49    DMUNLONG     (ulong)
    inflct50    DMUNLONG     (ulong)
```

User, Compacted and Stored Tuple Layout ALT_DIG

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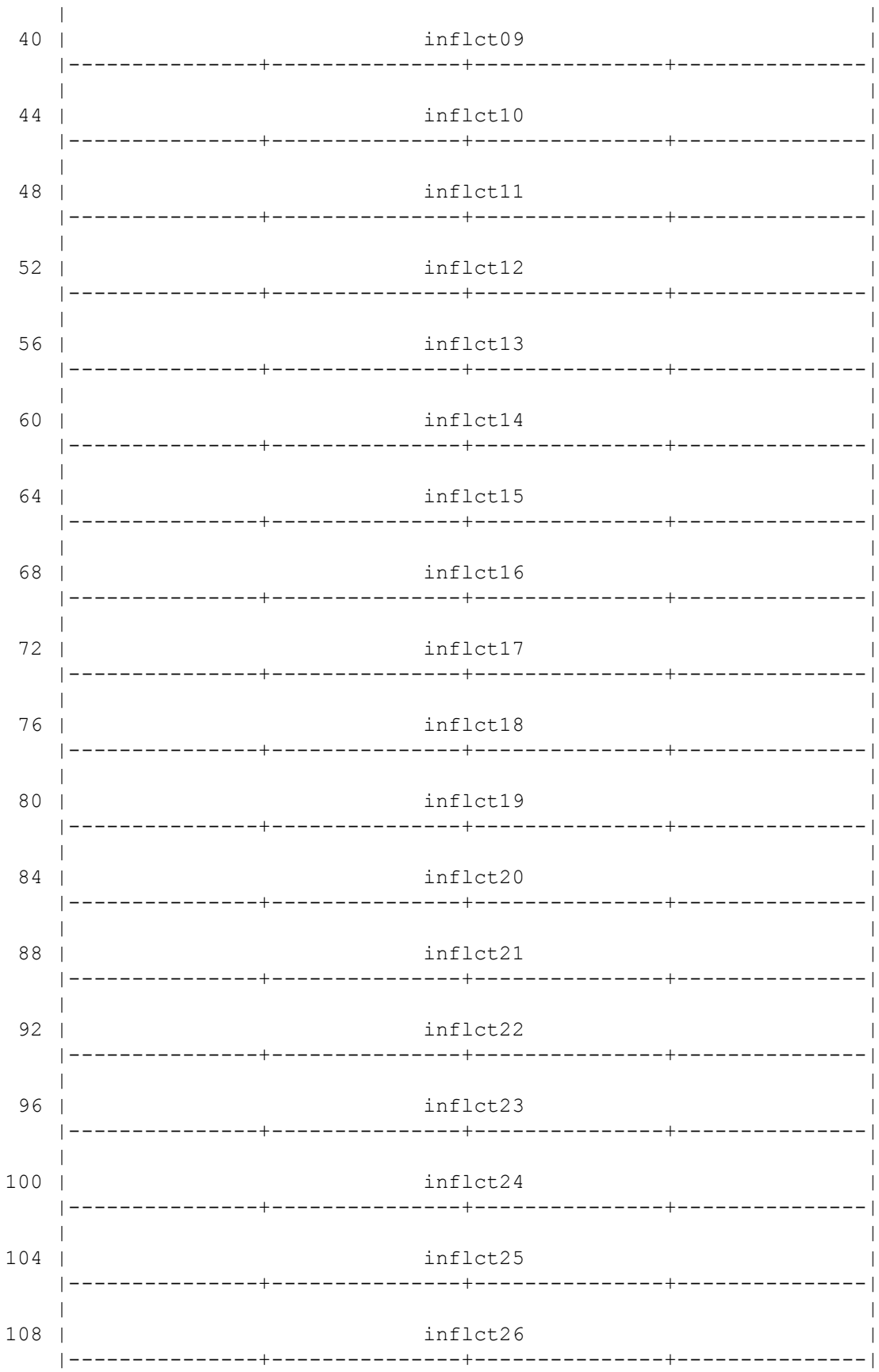


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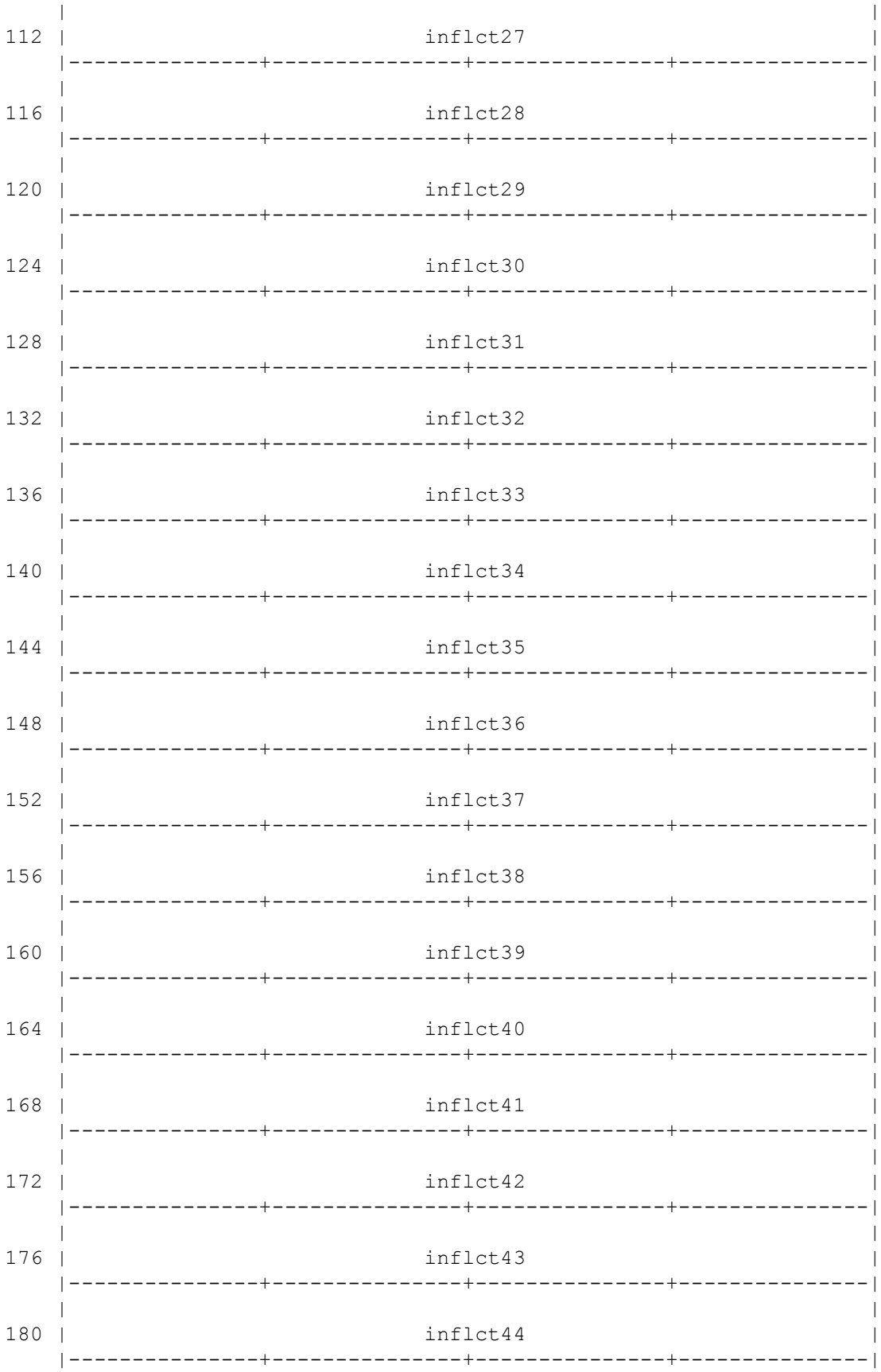


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```
    |                                                                   |
184 |                           inflct45                                |
    |--------------+--------------+--------------+--------------|
    |                                                                   |
188 |                           inflct46                                |
    |--------------+--------------+--------------+--------------|
    |                                                                   |
192 |                           inflct47                                |
    |--------------+--------------+--------------+--------------|
    |                                                                   |
196 |                           inflct48                                |
    |--------------+--------------+--------------+--------------|
    |                                                                   |
200 |                           inflct49                                |
    |--------------+--------------+--------------+--------------|
    |                                                                   |
204 |                           inflct50                                |
    |--------------+--------------+--------------+--------------|
                              ( 208 bytes )
```

## 4. Population Rules for RLalt_dig

**Relation Description:** Alternate announcement digit inflection scheme.

```
**********************************************************************
POPULATION RULES FOR <<<< RLalt_dig >>>>

This relation is not to be populated for export applications.

      Attribute
      ---------
 key  appl         DESCR: application
                   RANGE: One of the enum values defined in db/DMannc_apl.G
                   DEFAULT: None

 key  infl_id      DESCR: inflection id (scheme)
                   RANGE: 1-255
                   This inflection ID is specified by software,
                   so the inflection IDs assigned must correspond
                   to software defined values.
                   DEFAULT: None

 key  alt_ann      DESCR: 11 bits
                   RANGE: 1-1000
                   DEFAULT: None

      dur          DESCR: expected duration of digit string (rounded up
                   to nearest second)
                   RANGE: 1-255 (in seconds)
                   DEFAULT: None

      spare1       DESCR: field used only for alignment of tuple (24 bits)
                   RANGE: 0
                   DEFAULT: 0
```

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```
      infltc01    DESCR: inflection command or phrase
         .        RANGE: 0-16383, 16600-65535
         .
         .        At least one non-zero entry must be specified.
         .        The end of the inflection commands/phrases is denoted
         .        by the 0 entry which MUST be present in each
         .        tuple. No non-zero entries can exist after this entry.

      inflct50
                  DEFAULT: 0
*********************************************************************
DESCRIPTION:

Defines the digit inflection scheme to be used for Automated Calling Card
Service (ACCS).

QUANTITY OF TUPLES:

2 tuples are required as listed here.

TUPLE SEMANTICS for FCOSPS_TA:

appl         - FCOSPS_TA
infl_id      - 2
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 3
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

/*********************************************************************

DESCRIPTION:

Defines the digit inflection scheme to be used for Automated Coin
and Toll Service (ACTS).

QUANTITY OF TUPLES:

Tuples are required as listed here.

TUPLE SEMANTICS for FCOSPS_TA:

appl         - FCOSPS_TA
infl_id      - 101
```

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```
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 102
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 103
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 104
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended infl
ection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 105
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 106
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 107
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50
```

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```
appl         - FCOSPS_TA
infl_id      - 108
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 109
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 110
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 111
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 112
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 113
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 114
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
```

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```
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 115
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 116
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 117
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 118
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 119
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 120
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50
appl         - FCOSPS_TA
infl_id      - 121
alt_ann      - 1-1000
dur          - (As calculated by customer.)
```

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```
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 122
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 123
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 124
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 125
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 126
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 127
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 128
```

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```
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 129
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 130
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 131
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 132
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 133
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 134
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50
```

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```
appl         - FCOSPS_TA
infl_id      - 135
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 136
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 137
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 138
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 139
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 140
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 141
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
```

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```
inflct50

appl         - FCOSPS_TA
infl_id      - 142
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 143
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 144
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 145
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 146
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 147
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 148
alt_ann      - 1-1000
dur          - (As calculated by customer.)
```

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```
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 149
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 150
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 151
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 152
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 153
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 154
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 155
```

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```
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 156
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 157
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 158
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 159
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 160
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 161
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50
```

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```
appl         - FCOSPS_TA
infl_id      - 162
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 163
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 164
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 165
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 166
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 167
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 168
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
```

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```
inflct50

appl         - FCOSPS_TA
infl_id      - 169
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 170
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 171
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 172
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 173
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 174
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 175
alt_ann      - 1-1000
dur          - (As calculated by customer.)
```

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```
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 176
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 177
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 178
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 179
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 180
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 181
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .               defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 182
```

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```
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 183
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 184
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 185
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

appl         - FCOSPS_TA
infl_id      - 186
alt_ann      - 1-1000
dur          - (As calculated by customer.)
inflct01     - [ recommended inflection:
   .             defined by the customer ]
inflct50

*************************************************************************/
```

**Attribute: appl**

**Fullname:** application

**Attribute Description:** application

**Attribute: infl_id**

**Fullname:** inflection id

**Attribute Description:** This inflection ID is calculated by software so the inflection IDs assigned must correspond to software defined values.

**Attribute: alt_ann**

**Fullname:** alternate announcement set

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**Attribute Description:** The alternate announcement set assigned need not be contiguous.

The alt_ann value is a range of 1-1000.

**Attribute: dur**

**Fullname:** expected duration of digit string.

**Attribute Description:** Expected duration of digit string (rounded up to nearest second).

**Attribute: spare1**

**Fullname:** spare1

**Attribute Description:** Spare 24 bit field used only for alignment of tuple.

**Attribute: inflct[*]**

**Fullname:** inflection command or phrase

**Attribute Description:** At least one non-zero entry must be specified. The end of the inflection commands/phrases is denoted by the 0 entry which MUST be present in each tuple. No non-zero entries can exist after this entry. inflct50

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# ALT_HDR

## 1. Description

This relation contains the alternate announcement header phrase list.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 5000 |
| expected number of tuples | 3000 |
| density | 94 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| tsbal | DBSPEED |
| permutation type | un_perm |

## 3. Field Layout

```
ALT_HDR     relid = 2603  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL


     appl        DMANNC_APL   (enum: 4) <--- key
     hdr_id      DMANNC_ID    (ulong: 17)       <--- key
     alt_ann     DMUNS10      (ushort: 10)      <--- key
     dur         DMANNC_DUR   (ulong: 19)
     spare1      DMUNS13      (ushort: 13)
     phrase1     DMPHRASE     (ushort)
     phrase2     DMPHRASE     (ushort)
     phrase3     DMPHRASE     (ushort)
     phrase4     DMPHRASE     (ushort)
     phrase5     DMPHRASE     (ushort)
     phrase6     DMPHRASE     (ushort)
     phrase7     DMPHRASE     (ushort)
     phrase8     DMPHRASE     (ushort)
     phrase9     DMPHRASE     (ushort)
     phrase10    DMPHRASE     (ushort)
     phrase11    DMPHRASE     (ushort)
     phrase12    DMPHRASE     (ushort)
     phrase13    DMPHRASE     (ushort)
     phrase14    DMPHRASE     (ushort)
     phrase15    DMPHRASE     (ushort)
     phrase16    DMPHRASE     (ushort)
     phrase17    DMPHRASE     (ushort)
     phrase18    DMPHRASE     (ushort)
     phrase19    DMPHRASE     (ushort)
     phrase20    DMPHRASE     (ushort)
     phrase21    DMPHRASE     (ushort)
     phrase22    DMPHRASE     (ushort)
     phrase23    DMPHRASE     (ushort)
     phrase24    DMPHRASE     (ushort)
     phrase25    DMPHRASE     (ushort)
     phrase26    DMPHRASE     (ushort)
     phrase27    DMPHRASE     (ushort)
     phrase28    DMPHRASE     (ushort)
     phrase29    DMPHRASE     (ushort)
```

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```
    phrase30    DMPHRASE     (ushort)
    phrase31    DMPHRASE     (ushort)
    phrase32    DMPHRASE     (ushort)
    phrase33    DMPHRASE     (ushort)
    phrase34    DMPHRASE     (ushort)
    phrase35    DMPHRASE     (ushort)
    phrase36    DMPHRASE     (ushort)
    phrase37    DMPHRASE     (ushort)
    phrase38    DMPHRASE     (ushort)
    phrase39    DMPHRASE     (ushort)
    phrase40    DMPHRASE     (ushort)
    phrase41    DMPHRASE     (ushort)
    phrase42    DMPHRASE     (ushort)
    phrase43    DMPHRASE     (ushort)
    phrase44    DMPHRASE     (ushort)
    phrase45    DMPHRASE     (ushort)
    phrase46    DMPHRASE     (ushort)
    phrase47    DMPHRASE     (ushort)
    phrase48    DMPHRASE     (ushort)
    phrase49    DMPHRASE     (ushort)
    phrase50    DMPHRASE     (ushort)
    phrase51    DMPHRASE     (ushort)
    phrase52    DMPHRASE     (ushort)
    phrase53    DMPHRASE     (ushort)
    phrase54    DMPHRASE     (ushort)
    phrase55    DMPHRASE     (ushort)
    phrase56    DMPHRASE     (ushort)
    phrase57    DMPHRASE     (ushort)
    phrase58    DMPHRASE     (ushort)
    phrase59    DMPHRASE     (ushort)
    phrase60    DMPHRASE     (ushort)
    phrase61    DMPHRASE     (ushort)
    phrase62    DMPHRASE     (ushort)
    phrase63    DMPHRASE     (ushort)
    phrase64    DMPHRASE     (ushort)
    phrase65    DMPHRASE     (ushort)
    phrase66    DMPHRASE     (ushort)
    phrase67    DMPHRASE     (ushort)
    phrase68    DMPHRASE     (ushort)
        User, Compacted and Stored Tuple Layout    ALT_HDR
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |       |                                 |                   | |
 0 |  appl |              hdr_id             |      alt_ann      |*|
   |---------------+---------------+---------------+---------------|
   |                                 |                             |
 4 |                 dur             |          spare1             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |            phrase1            |            phrase2            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |            phrase3            |            phrase4            |
```

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```
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                               |                               |
136 |            phrase65           |            phrase66           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
140 |            phrase67           |            phrase68           |
    |---------------+---------------+---------------+---------------|
       ( 144 bytes )
```

## 4. Population rules for RLalt_hdr

### Relation Description

alternate announcement header phrase list

```
/*************************************************************************
 *
 *      POPULATION RULES FOR <<<< RLalt_hdr >>>>
 *
 *
 *
 *      Attribute
 *      ---------
 * key  appl            DESCR:
 *                      RANGE: One of the enum values defined
 *                      in db/DMannc_apl.G
 *                      DEFAULT: None
 *
 * key  hdr_id          DESCR:.
 *                      RANGE: 1-131071
 *                      DEFAULT: None
 *
 * key  alt_ann         DESCR: 11 bits
 *                      RANGE: 1-1022
 *                      DEFAULT: None
 *
 *      dur             DESCR:
 *                      RANGE: 0-7200 (seconds, or 2 hours)
 *                      See the following for its calculation
 *                      DEFAULT: None
 *
 *      spare1          DESCR: field used for spare and for alignment of tupl
e
 *                      RANGE: 0
 *                      DEFAULT: 0
 *
 *      phrase1         DESCR:
 *        .             RANGE: 0-16383, 16385-16389, 16500-MAXPHRASEID
 *                             (NOTE: NOT 16384!)
 *        .             At least one non-zero entry must be specified.
```

```
 *        .              The end of the phrases is denoted by a zero (0)
 *        .              entry which MUST be present in each tuple. No
 *        .              non-zero entries can exist after this entry.
 *      phrase68
 *                       These values are defined as follows:
 *
 *                       PHRASEX         DESCRIPTION
 *                       -------         -----------
 *
 *                         0             Defines logical end of Phrase list
 *                        1-46           Digit-string related Phrase IDs
 *                                       (see RLPHRASES Pop Rules)
 *                        47-16383       Application Defined Phrase IDs
 *                        16385          Command - Insert a digit string here
 *                        16386          Command - Repeat the previous digit
 *                                                 string here
 *                        16387          Command - date of last incoming call
 *                        16388          Command - time of last incoming call
 *                        16389          Command - number of dollars and cents
 *                        16500-16599    Application-Specific Commands
 *                                       These are defined by applications to
 *                                       have certain meanings. All of these
 *                                       are treated EXACTLY as is 16385.
 *                        16600-MAXPHRASEID  Application Defined Phrase IDs
 *
 *                        NOTE: (MAXPHRASEID+1)-65535 are NOT used for
 *                        phrase IDs but for subsystem specific purposes.
 *
 *                       DEFAULT: 0
 ************************************************************************/

/************************************************************************
Population for OSPS Automated Calling Card Service
Announcements (ACCS)

Note:
If the Thank You [branding phrase] announcement is to
be given, the global parameter GLin_thnku must equal DBYES,
otherwise no announcement is given for the ACCS Initial call.

There are two Thank You announcements which can be given,
announcement #5 or #16 listed in the following:

Announcement #5 (hdr_id = 5) should contain only the
Thank You phrase.
TUPLE SEMANTICS:
appl     - FCOSPS_TA
hdr_id   - 5
alt_ann  - 1-1022
dur      - (as calculated by Recent Change)
phrase1  - 52 (Thank You phrase ID)

Announcement #16 (hdr_id = 16) should contain the
Thank you for using phrase plus the branding phrase,
```

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```
which is one of the following:
AT&T
Northwestern Bell
Ohio Bell
New Jersey Bell
Wisconsin Telephone
C&P
Your Local Telephone Company
United Telephone
New York Telephone
New England Telephone
S.N.E.T
Cincinnati Bell
U.S. West Communications
Pacific Bell
Nevada Bell
Whidbey Telephone Company
Roseville Telephone
Illinois Bell
Michigan Bell
Southwestern Bell
Rochester Telephone

TUPLE SEMANTICS:
appl     - FCOSPS_TA
hdr_id   - 16
alt_ann  - 1-1022
dur      - (as calculated by Recent Change)
phrase1  - (Thank you for using phrase ID)
phrase2  - (correct branding phrase ID)

The wording and the IDs of all the phrases are contained in
the RLphrases relation in the AM.

The conditions that determine which Thank You announcement
are explained in the following. These checks are performed
in the OA call processing code and are not to be enforced
in ODA or RC code.

announcement #5 given when:
GLin_thnku = DBYES and GLbranding = DBNO
or GLin_thnku = DBYES and GLbranding = DBYES and

GLoftyp = DBYES and carrier id of call does not equal AT&T
                or
GLoftyp = DBNO and carrier id of call equals AT&T

or GLin_thnku = DBYES and GLbranding = DBYES and
GLoftyp = DBYES and carrier id of call equals AT&T
                or
 GLoftyp = DBNO and carrier id of call equals LEC
                and
the call is a Directory Assistance call and
GLdabrand = DBNO
```

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```
announcement #16 given when:
GLin_thnku = DBYES and GLbranding = DBYES and

 GLoftyp = DBYES and carrier id of call equals AT&T
        or
 GLoftyp = DBNO and carrier id of call equals LEC
         and
the call is not a Directory Assistance call
or GLin_thnku = DBYES and GLbranding = DBYES and

 GLoftyp = DBYES and carrier id of call equals AT&T
        or
 GLoftyp = DBNO and carrier id of call equals LEC
        and
 GLoftyp = carrier ID of call and

the call is a Directory Assistance call and
GLdabrand = DBYES


If the Thank You announcement is to be given for ACCS
Sequence calls, the global parameter GLseq_thnku must equal
DBYES, otherwise no announcement is given.  When the parameter
is set (GLseq_thnku = DBYES), only announcement #5 is given.
Tuple semantics same as the previous for hdr_id=5.

Note:
The announcement headers #39 and #40 should only be populated
if the Front-End Branding Secured Feature has been purchased.
If it has been purchased, the Audible Logo phrase ID is determined
at the time the Customized TN1054 ASC packs are made, and is used
in announcement headers #39 and #40.

The announcement header #149 should only be populated if the PLBQ
Business/Residential Promotional Card Secure Feature has been
purchased.  If the feature has been purchased, the Time Balance
Quotation phrase ID(s) is/are determined at the time that the
customized packs are made and are used in announcement header
149.

The conditions that determine which prompt announcement is
given are explained in the following. These checks are performed
in the OA call processing code and are not to be enforced in
ODA or RC code.

announcement #1 is given when:
        prompt treatment is tone plus prompt
                and
        Secure Feature #15 (Front-End Branding) is not activated
                or
        Glbranding = DBNO
                or
        Glofcar != carrier of call
```

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```
                or
        carrier of call is not AT&T or LEC

announcement #26 is given when:
        prompt treatment is tone only
                and
        Secure Feature #15 (Front-End Branding) is not activated
                or
        Glbranding = DBNO
                or
        Glofcar != carrier of call
                or
        carrier of call is not AT&T or LEC

announcement #39 is given when:
        Secure Feature #15 (Front-End Branding) is activated
                and
        Glbranding = DBYES
                and
        Glofcar = carrier of call
                and
        carrier of call is AT&T or LEC
                and
        prompt treatment is tone only

        Announcement #39 (hdr_id = 39) should contain the 'bong'
        and 'Audible Logo' phrase.
        'Audible Logo' and prompt phrase.
        TUPLE SEMANTICS:
            appl     - FCOSPS_TA
            hdr_id   - 40
            alt_ann  - 1-1022
            dur      - (as calculated by Recent Change)
            phrase1  - 79 ('bong' phrase ID)
            phrase2  - ?? ('Audible Logo' phrase ID determined when
                           the customized announcement is made)
            phrase3  - 28 ('pause' phrase ID)
            phrase4  - 47 ('Please dial your card number' phrase ID)
            phrase5  - 48 ('or zero for an operator now' phrase ID)

        Announcement Header IDs 241 through 300 are to be used
        as customized announcements for the PLBQ Business/Residential
        Card feature.  IDs 241 through 270 will be used by the
        customer to create announcements that will be used as part
        of or instead of the balance quotation.  Ids 271 through 300
        will be used to create announcements that will be used
        instead of the standard disconnect warning announcements.


/*************************************************************************

Population for OSPS Toll and Assistance (OSPSTA)
```

NOTE: For OSPSTA announcements, the following application-specific commands are recognized:

```
 16500          Command - Insert a CREDIT digit
                          string
 16501          Command - Insert a CHARGE DUE digit
                          string
 16502          Command - Insert a CALL DURATION digit
                          string
 16503          Command - Insert an AMOUNT digit
                          string
 16504          Command - Insert a CARRIER Branding phrase
```

Whenever a new hdr_id is added to RLalt_hdr.R, the same information should be added to RLannc_hdr.R

QUANTITY OF TUPLES:

137 tuples per SM.

TUPLE SEMANTICS for FCOSPS_TA:

```
appl            - FCOSPS_TA
hdr_id          - 1
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Prompt announcement on a customer-dialed ACCS
   .              call using the tone plus prompt announcement
   .              treatment
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 2
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              A customer dialing error has occurred on a
   .              customer-dialed ACCS call.
   .              [ recommended utterances:
   .                     defined by the customer ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 3
```

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```
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Prompt announcement after an error has
   .              occurred, and the alerting tone has been given.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 4
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              An invalid ACCS number was entered and the
   .              error threshold has been reached; the customer
   .              must hang up and reoriginate the call.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 5
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Acknowledgement announcement after database
   .              reply for non-AT&T calls, (non-branding).
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 6
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              A customer dialing error has occurred on a
   .              customer-dialed ACCS sequence call.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 7
alt_ann         - 1-1022
```

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```
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Prompt announcement after an error has
   .              occurred on a sequence call, and the alerting
   .              tone has been given.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 8
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              An invalid called number was entered and the
   .              error threshold has been reached.  The
   .              customer must hang up and reoriginate the call.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 9
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Termination announcement after error
   .              threshold has been reached, without another
   .              number being entered.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 10
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Reply to an inward, non-OSPS validation:
   .              valid ACCS number, unrestricted PIN, known RAO.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 11
```

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```
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Reply to an inward, non-OSPS validation:
   .              valid ACCS number, restricted PIN, RAO known.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 12
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Reply to an inward non-OSPS validation:  valid
   .              ACCS number, unrestricted PIN, unknown RAO.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 13
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Reply to an inward, non-OSPS validation:
   .              invalid ACCS number.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 14
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Reply to an inward, non-OSPS validation:
   .              invalid ACCS number, error threshold reached.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 15
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
```

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```
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Error announcement given to customers who dial
   .              a new forward number which is restricted as a
   .              sequence call.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 16
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Acknowledgement announcement after database
   .              reply for branding.
   .              [ recommended utterance:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 17
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Prompt announcement on an ACCS sequence call
   .              where the initial call was an AT&T call.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 18
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Error announcement after entering local phone
   .              company called number when AT&T call has
   .              already been completed.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 19
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
```

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```
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Prompt announcement on an ACCS sequence call
   .              when the initial call was a local phone
   .              company call.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 20
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Error announcement after entering AT&T called
   .              number when local phone company call has
   .              already been completed.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 21
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Termination announcement if TCA option
   .              specifies failure announcement when no
   .              response  is received from the external
   .              database.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 22
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              NCD rejection for CAMA, 1+ACQS, and calling
   .              card calls.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 23
```

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```
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              NCD 'allow' inward validation phrase
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 24
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              NCD 'denied' inward validation phrase
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 25
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Prompt announcement on an ACCS sequence call
   .              where carrier is other than LEC or AT&T.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 26
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Prompt announcement on an ACCS call where the
   .              customer prompt announcement is only a tone.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 27
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
```

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```
   .             AT&T Card/LEC call 'First Chance' CAS
   .             rejection announcement.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 28
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the ACCS phrase for:
   .             LEC Card/AT&T call 'First Chance' CAS
   .             rejection announcement.
   .             [ recommended utterance:
   .                   defined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 29
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the ACCS phrase for:
   .             AT&T Card/LEC call 'Second Chance'
   .             rejection announcement.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 30
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the ACCS phrase for:
   .             LEC Card/AT&T call 'Second Chance'
   .             rejection announcement.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 31
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the ACCS phrase for:
   .             'First Chance' CAS rejection for geographic
   .             restrictions on sequence calls.
```

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```
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 32
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              'Second Chance' CAS rejection for geographic
   .              restrictions on sequence calls.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 33
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              'Allow' reply to a CAS inward, non-OSPS
   .              validation.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 34
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Speed Dialing Disabled, Threshold Not Exceeded.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 35
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Reply to a CAS 'denied' inward validation for
   .              LEC Cards, AT&T carried call.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 36
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Reply to a CAS 'denied' inward validation for
   .              LEC Cards, AT&T carried call; error threshold
   .              reached.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 37
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Repoly to an inward non-OSPS validation: valid
   .              ACCS number, restricted PIN, unknown RAO.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 38
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Error announcement given to customers who dial
   .              a Sub-account billing-I call from a restricted
   .              station.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 39
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Prompt announcement on an ACCS call where the
   .              customer prompt announcement is 'tone, audible logo'
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 40
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Prompt announcement on a customer-dialed ACCS
   .              call using the 'tone, audible logo, prompt
   .              announcement' treatment
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 41
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Error announcement given to DIOR customers who
   .              have dialed a forward number that was not allowed
   .              as a sequence call.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 42
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the MECH phrase for:
   .              Unbranded holding announcement given to
   .              customers when a call released for MECH
   .              treatment has received forward party
   .              answer but no operator is available to
   .              service the call.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 43
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the MECH phrase for:
   .              Branded holding announcement given to
   .              customers when a call released for MECH
```

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```
   .              treatment has received forward party
   .              answer but no operator is available to
   .              service the call. The branded default
   .              utterances are the same as the unbranded
   .              announcement since the customer must
   .              specify the appropriate branding
   .              information.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 44
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Error announcement given when the service requested
   .              is not provided by the OSPS; such as, automated inward
   .              validation of CCC cards.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 45
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Error announcement given on the first attempt when the
   .              dialed calling card cannot be used for the specific
   .              service requested.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 46
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Error announcement given on the second attempt when
   .              the dialed calling card cannot be used for the
   .              specific service requested.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 47
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Error announcement given to the caller used to
   .              prompt them to enter their PIN.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 48
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Error announcement given when the dialed calling
   .              card is rejected for credit-related reasons.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 49
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              used by the Voice Messaging Service
   .              Interface (VMSI) capability to inform the caller,
   .              when the proper VMSI service code and access code
   .              have been entered, that the call will proceed
   .              with normal ACCS processing.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 50
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Prompt announcement on a customer-dialed AATOS/
   .              SDN NRA call for requesting the customer to dial a
   .              calling card number.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 51
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Prompt announcement on a customer-dialed
   .              AATOS/SDN NRA call for requesting the customer
   .              to dial a forward number.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 52
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
  .               for the VMSI R3 phrase for:
  .               Prompt announcement used by VMSI R3 when the
  .               customer dialed forward number is in the
  .               busy state.
  .             [ recommended utterances:
  .                if microcode 5D172A1, 5D172A2 or 5D172A3
  .                exists in RLraf_mbd
  .                     defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 53
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
  .               for the VMSI R3 feature phrase for:
  .               Prompt announcement used by VMSI R3 when the
  .               forward party does not answer.
  .             [ recommended utterances:
  .                if microcode 5D172A1, 5D172A2 or 5D172A3
  .                exists in RLraf_mbd
  .                     defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 54
alt_ann         - 1-1022
dur             - (as calculated using the previous poprules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Prompt announcement on an automated initial
   .              DIOR call for requesting the customer to
   .              dial a forward number.
```

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```
   .              [ recommended utterances:
   .                if microcode 5D172A1, 5D172A2 or 5D172A3
   .                exists in RLraf_mbd
   .                    defined by the customer ]
phrase68
```

**5. ALT_HDR Population rules continued.**

```
appl            - FCOSPS_TA
hdr_id          - 55
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for feature Specialized Handling for 700 calls:
   .              Error announcement given to customers when
   .              the specialized services cannot be provided.
   .              [ recommended utterances:
   .                   defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 56
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ECUT phrase for:
   .              Initial Card Recognition Failure Announcement
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 57
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ECUT phrase for:
   .              Initial Contract Failure Announcement
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 58
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ECUT phrase for:
   .              Initial Inverse Contract Failure Announcement
```

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```
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 59
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the CDBS Sequence Dialing phrase for:
   .              CDBS Sequence Call PIN prompt
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 60
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the CDBS Sequence Dialing phrase for:
   .              CDBS Sequence Call PIN error prompt
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68



appl            - FCOSPS_TA
hdr_id          - 61
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Warning announcement for termination due to
   .              a depleted balance: used to provide the
   .              disconnect warning announcement for 5E8
   .              Purchase Limits calls before being forcibly
   .              disconnected
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 62
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Error report and termination announcement:
   .              used to provide termination treatment for
   .              Purchase Limits calls due to:
```

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```
   .              - CAS PL replies indicating balance depleted
   .                and call in progress
   .              - RTRS replies indicating insufficient
   .                balance or query failure
   .              [ recommended utterances:
   .                   defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 63
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the OSPS 900 feature phrase for:
   .              Paid Billing Denied for OSPS 900 Calls
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                   defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 64
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the OSPS 900 feature phrase for:
   .              All Billing Denied for OSPS 900 Calls
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                   defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 65
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Independent Company Announcement
   .              Branding feature to provide Independent
   .              Company (ICO) branding for 0+ intra-LATA calls.
   .              For an intra-LATA carrier eligible for
   .              branding, the caller will hear this phrase
   .              initially.
   .              [ recommended utterances:
   .                   defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 66
alt_ann         - 1-1022
```

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```
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Independent Company Announcement
   .              Branding feature to provide Independent
   .              Company (ICO) branding for 0+ intra-LATA calls.
   .              For an intra-LATA carrier eligible for
   .              branding, the caller will hear this phrase
   .              after successful card validation.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 67
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 1 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 68
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 2 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 69
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 3 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 70
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 4 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 71
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 5 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 72
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 6 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 73
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 7 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
```

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```
phrase68


appl            - FCOSPS_TA
hdr_id          - 74
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 8 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 75
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 9 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 76
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 10 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 77
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 11 of 20)
   .              [ recommended utterances:
```

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```
   .                    customer defined using standard
   .                    and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 78
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 12 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 79
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 13 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 80
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 14 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 81
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
```

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```
   .             on automated calls. (This is header 15 of 20)
   .             [ recommended utterances:
   .                    customer defined using standard
   .                    and/or custom phrases. ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 82
alt_ann        - 1-1022
dur            - (as calculated using the previous pop rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the Customized Market Announcements
   .             feature used to provide branding announcements
   .             on automated calls. (This is header 16 of 20)
   .             [ recommended utterances:
   .                    customer defined using standard
   .                    and/or custom phrases. ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 83
alt_ann        - 1-1022
dur            - (as calculated using the previous pop rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the Customized Market Announcements
   .             feature used to provide branding announcements
   .             on automated calls. (This is header 17 of 20)
   .             [ recommended utterances:
   .                    customer defined using standard
   .                    and/or custom phrases. ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 84
alt_ann        - 1-1022
dur            - (as calculated using the previous pop rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the Customized Market Announcements
   .             feature used to provide branding announcements
   .             on automated calls. (This is header 18 of 20)
   .             [ recommended utterances:
   .                    customer defined using standard
   .                    and/or custom phrases. ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 85
alt_ann        - 1-1022
dur            - (as calculated using the previous pop rules)
phrase01       - Announcement Header Phrase IDs/Commands
```

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```
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 19 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 86
alt_ann         - 1-1022
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 20 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 87
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              This announcement is for the Completion of
   .              Inter-LATA Calls Accessing Directory Assistance
   .              (CICADA) - Automated Announcement Prompt
   .              Special Feature.  ACCS Directory Assistance
   .              callers will be offered call completion of the
   .              retrieved number via this CICADA announcement.
   .              [recommended utterances:
   .                    customer defined using standard
   .                    and/or custom phrases   ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 88
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Calling and Enhanced Called Number Restrictions
   .              Feature. Restrictions are placed on On-Net
   .              credit card calls originating from particular
   .              calling stations. This announcement is given
   .              on the first or second attempt on Called Number
   .              Restrictions (CDNR) of an initial call to indicate
   .              the caller must hang up and arrange other billing.
   .              [recommended utterances:
```

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```
   .                  defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 89
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Calling and Enhanced Called Number Restrictions
   .              Feature.  Restrictions are placed on On-Net credit
   .              card calls originating from particular calling
   .              stations.  This announcement will be given on the
   .              first attempt of a sequence call with Called Number
   .              Restrictions (CDNR) to inform the caller
   .              that the call cannot be billed to the card.
   .              [recommended utterances:
   .                   defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 90
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              Calling and Enhanced Called Number Restrictions
   .              Feature. Restrictions are placed on On-Net credit
   .              card calls originating from particular calling
   .              stations.  This announcement will be given on initial
   .              and sequence calls with Calling Number
   .              Restrictions (CGNR) to inform the caller that the
   .              call cannot be completed from this phone and will be
   .              requested to hangup to arrange other billing.
   .              [recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                   defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 91
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              Customer Account Services (CAS) Purchase Limit (PL)
   .              Feature. PL calls are terminated 30 seconds after
   .              a disconnect warning announcement is played.
   .              This announcement, the PL alerting tone, will be
   .              given to both the back and forward party
   .              immediately before killing the call.
   .              [recommended utterance:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                   defined by the customer ]
```

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```
phrase68


appl            - FCOSPS_TA
hdr_id          - 92
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Independent Company Announcement Branding
   .              Feature.  This announcement will be given to the
   .              caller as part of the prompt requesting entry
   .              of a card number or entry of zero to reach an operator.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 93
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the 0+800 Calls From Wireless Service Providers
   .              Feature.  This announcement will be given to the
   .              caller to identify billing on an initial 0+800 call
   .              dialed number from a wireless service provider.
   .              [ recommended utterance:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 94
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the 0+800 Calls From Wireless Service Providers
   .              Feature.  This announcement will be given to the
   .              caller to 0+700 or 0+900 number
   .              dialed from a wireless service provider to inform the
   .              caller that the service is not available.
   .              [ recommended utterance:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 95
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the 0+800 Calls From Wireless Service Providers
   .              Feature.  This announcement will be given to the
   .              caller, on the first attempt, to inform the caller that
```

```
            .              the service is not available if a 700, 800, or 900
            .              forward number is dialed from a wireless service provider.
            .              [ recommended utterance:
            .                   defined by the customer ]
         phrase68


         appl            - FCOSPS_TA
         hdr_id          - 96
         alt_ann         - 1-1022
         dur             - (as calculated using the following duration rules)
         phrase01        - Announcement Header Phrase IDs/Commands
            .              for the 0+800 Calls From Wireless Service Providers
            .              Feature.  This announcement will be given to the
            .              caller, on the second attempt, to inform the caller that
            .              the service is not available if a 700, 800, or 900 forward
number is
            .              dialed from a wireless service provider.
            .              [ recommended utterance:
            .                   defined by the customer ]
         phrase68


         appl            - FCOSPS_TA
         hdr_id          - 97
         alt_ann         - 1-1022
         dur             - (as calculated using the following duration rules)
         phrase01        - Announcement Header Phrase IDs/Commands
            .              for the Called Number Restriction
            .              Feature.  This announcement will be given to the
            .              caller, on the first and second attempt
            .              of an initial call and on the second attempt of a
            .              sequence call, to inform the caller that
            .              the call cannot be billed to the card and that
            .              other billing must be arranged.
            .              [ recommended utterances:
            .                if microcode 5D172A3 exists in RLraf_mbd
            .                   defined by the customer ]
         phrase68


         appl            - FCOSPS_TA
         hdr_id          - 98
         alt_ann         - 1-1022
         dur             - (as calculated using the following duration rules)
         phrase01        - Announcement Header Phrase IDs/Commands
            .              for the Called Number Restriction
            .              Feature.  This announcement will be given to the
            .              caller, on the first attempt of an initial CDNR call
            .              and on the first attempt of an initial or sequence
            .              CGNR  call.
            .              This announcement will be given to the
            .              caller to inform the caller to press zero to
            .              reach an operator to  arrange other billing.
```

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```
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 99
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Called Number Restriction
   .              Feature.  This announcement will be given to the
   .              caller, on the first attempt of a sequence call,
   .              to inform the caller that
   .              the call cannot be billed to the card and
   .              that other arrangements must be made.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 100
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Called Number Restriction
   .              Feature.  This announcement will be given to the
   .              caller, on the first attempt of a sequence call,
   .              to inform the caller to begin dialing.
   .              [ recommended utterance:
   .                   defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 101
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                   defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 102
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                   defined by the customer ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 103
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 104
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 105
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 106
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 107
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 108
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 109
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 110
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 111
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 112
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 113
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 114
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 115
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 116
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterance:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 117
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 118
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 119
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 120
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 123
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Network Remote Access (NRA) feature.
   .              This announcement will be given to the caller
   .              on initial calls prior to signaling the 4ESS(TM)
   .              for allowed remote access calls.
   .              [ recommended utterance:
   .                   defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 124
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Network Remote Access (NRA) feature.
   .              This announcement will be given to the caller
   .              on sequence calls prior to signaling the 4ESS(TM)
   .              for allowed remote access calls.
   .              [ recommended utterance:
   .                   defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 125
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Network Remote Access (NRA) feature.
   .              This announcement will be given to the caller
   .              on initial calls to request a new forward number
   .              if the first attempt at forward number entry
   .              results in a denied remote access call.
   .              [ recommended utterance:
   .                if microcode 5D155* exists in RLraf_mbd
   .                   defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 126
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Network Remote Access (NRA) feature.
   .              This announcement will be given to the caller
   .              if the second attempt at forward number entry
   .              results in a denied remote access call.
   .              [ recommended utterance:
   .                if microcode 5D155* exists in RLraf_mbd
   .                   defined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 144
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Calling Card Announcement Change feature.
   .              This announcement will be given to the caller
   .              instead of the standard announcement for ACCS for CCC
   .              when the call is determined to be a DIOR call.
   .              [ recommended utterance:
   .                if microcode 5D155* exists in RLraf_mbd
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 145
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the AATLSOS AAP feature.
   .              This announcement will be given as the 1st attempt
   .              initial 1-800-CALLATT prompt menu.
   .              [ recommended utterances:
   .                to be determined by customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 146
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the AATLSOS AAP feature.
   .              This announcement will be given as the 2nd attempt
   .              initial 1-800-CALLATT prompt menu.
   .              [ recommended utterances:
   .                to be determined by customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 147
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the AATLSOS AAP feature.
   .              This will be given as the forward
   .              number announcement for 1-800-CALLATT calls.
   .              [ recommended utterances:
   .                to be determined by customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 148
alt_ann         - 1-1022
```

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```
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Quiet Hear feature where the customer
   .              is thanked if both the Quiet Hear and Audio Logo
   .              features are active
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 149
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Announcement on an ACCS call where the customer
   .              is informed of the time balance for the call.
   .              [ recommended utterances:
   .                to be determined by customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 151
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Called Number Restriction Feature.
   .              This announcement will be given to the caller,
   .              on the first and second attempt of an initial
   .              call or a  sequence call, prior to disconnect.
   .              [ recommended utterance:
   .                    defined by the customer ]
phrase68
```

**6. ALT_HDR Population rules continued.**

```
appl            - FCOSPS_TA
hdr_id          - 152
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Calling Number Restriction
   .              Feature.  This announcement will be given to the
   .              caller, on the first and second attempt of an initial
   .              call or a sequence call, to inform the caller
   .              that the call cannot be billed to the card from that
   .              phone and other billing must be arranged.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 153
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the International Credit Card Validation (ICCV)
   .              Called Number Geographic Restrictions Feature.
   .              This announcement will be given to inform
   .              the caller of an invalid number and to dial again.
   .              [ recommended utterance:
   .                    defined by the customer ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 154
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the International Credit Card Validation (ICCV)
   .              Called Number Geographic Restrictions Feature.
   .              This announcement will be given to inform
   .              the caller of an invalid number and to hangup.
   .              [ recommended utterance:
   .                    defined by the customer ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 155
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Interchangeable NPAs Feature.  This
   .              announcement will be given to the caller to
   .              request entry of the full ten digit number,
   .              including the area code.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 156
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Duration Limit (DL) Feature.  This announcement
   .              will be given on the first attempt or second attempt of
   .              an initial or sequence call to inform the  caller
   .              that the call is being denied due to an Insufficient
   .              DL balance.
```

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```
   .              [ recommended utterance:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 157
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Volume Limit (VL) Feature.  This announcement
   .              will be given on the first attempt or second attempt of
   .              an initial or sequence call to inform the  caller
   .              that the call is being denied due to an Insufficient
   .              VL balance.
   .              [ recommended utterance:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 158
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Purchase Limit (PL) Feature.  This announcement
   .              will be given on the first attempt or second attempt of
   .              an initial or sequence call to inform the  caller
   .              that the call is being denied due to an Insufficient
   .              PL balance.
   .              [ recommended utterance:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 159
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Card Limit (CL) Feature.  This ten second
   .              Disconnect Warning Announcement (DWA) will be
   .              given to inform the caller that the call is being
   .              terminated due to an depleted Duration Limit (DL)
   .              and/or Purchase Limit (PL) balance.  Note that
   .              this DWA interval must always be set to ten seconds,
   .              that is, phrase 5 must be 29.
   .              [ recommended utterance:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 160
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Card Limit (CL) Feature.  This Card
   .              Unavailable in DataBase announcement will be given
   .              to inform the caller that the call cannot be
   .              completed and that the caller should hang up and
   .              try the call later.
   .              [ recommended utterance:
   .                    defined by the customer ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 161
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the International Credit Card Validation (ICCV)
   .              Called Number Geographic Restrictions Feature.
   .              This announcement will be given to the
   .              caller, on the first and second attempt
   .              of an initial call and on the second attempt of a
   .              sequence call, to inform the caller that
   .              the call cannot be billed to the card and that
   .              other billing must be arranged.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 162
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the International Credit Card Validation (ICCV)
   .              Called Number Geographic Restrictions Feature.
   .              This announcement will be given to the
   .              caller, on the first attempt of an initial CDNR call
   .              and on the first attempt of an initial or sequence CGNR
   .              call.  This announcement will be given to the
   .              caller to inform the caller hang up and arrange other
   .              billing or press zero to reach an operator.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 163
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the International Credit Card Validation (ICCV)
   .              Called Number Geographic Restrictions Feature.
   .              This announcement will be given to the
   .              caller, on the first attempt of a sequence call,
   .              to inform the caller that
   .              the call cannot be billed to the card and
   .              that other arrangements must be made.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 164
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the International Credit Card Validation (ICCV)
   .              Called Number Restriction Feature.
   .              This announcement will be given to the
   .              caller, on the first attempt of a sequence call,
   .              to inform the caller to begin dialing.
   .              [ recommended utterance:
   .                    defined by the customer ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 165
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the International Credit Card Validation (ICCV)
   .              Called Number Geographic Restrictions Feature.
   .              This announcement will be given to the caller,
   .              on the first and second attempt of an initial
   .              call or a  sequence call, prior to disconnect.
   .              [ recommended utterance:
   .                    defined by the customer ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 166
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
```

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```
   .              for the Federal Telecommunication System Network
   .              Remote Access (FTS NRA) Feature.  This announcement will
   .              be given to the caller, on a first or second attempt,
   .              to inform a caller that the service is not available
   .              if a Sub-Account Billing (SAB) request is entered
   .              on a potential FTS NRA call.
   .              [ recommended utterance:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 167
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Federal Telecommunication System Network
   .              Remote Access (FTS NRA) Feature.  This announcement will
   .              be given to the caller, on a first attempt of an
   .              initial call, to inform a caller that the service
   .              is not available if the card validation query reply
   .              returned no FTS routing number or the FTS routing
   .              number returned does not match the internally stored
   .              number on a potential FTS NRA call.
   .              [ recommended utterance:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 168
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Federal Telecommunication System Network
   .              Remote Access (FTS NRA) Feature.  This announcement will
   .              be given to the caller, on a second attempt of an
   .              initial call, to inform a caller that the service
   .              is not available if the card validation query reply
   .              returned no FTS routing number or the FTS routing
   .              number returned does not match the internally stored
   .              number on a potential FTS NRA call.
   .              [ recommended utterance:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 169
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Federal Telecommunication System Network
   .              Remote Access (FTS NRA) Feature.  This announcement will
```

```
   .             be given to the caller, on a sequence call, to inform
   .             a caller that the service is not available if the
   .             card validation query reply returned no FTS routing
   .             number or the FTS routing number returned does not
   .             match the internally stored number on a potential
   .             FTS NRA call.
   .             [ recommended utterance:
   .                   defined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 170
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the BNS Fraud feature.
   .             This announcement is given on an initial call
   .             to inform the caller that a customer dialing
   .             error has occurred on a
   .             customer-dialed ACCS call.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68



appl           - FCOSPS_TA
hdr_id         - 171
alt_ann        - 1-1022
dur            - (as calculated using the previous pop rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the CAS Card Limit feature for a
   .             Disconnect warning announcement given due to
   .             depleted Purchase Limit (PL) and/or Duration
   .             Limit (DL) balances. Note that
   .             the last phrase must always be 'seconds.'
   .             The second to last phrase must always be
   .             a number.  The third to last phrase may be
   .             a number.  Valid values for the number of
   .             seconds must be between 10 to 90 in multiples
   .             of 5.  Further note that changing the number of seconds
   .             will change the Global parameter GLCLDWI.
   .             [ recommended utterances:
   .               if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                   defined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 172
alt_ann        - 1-1022
dur            - (as calculated using the previous pop rules)
phrase01       - Announcement Header Phrase IDs/Commands
```

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```
   .              for the CAS Card Limit phrase for:
   .              Denial due to call in progress or rating
   .              failure.
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 176
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              International Billed Number Screening Feature.
   .              After a LIDB BNS database query, this announcement
   .              is provided to the international operator.
   .              The announcement is used to prompt the distant
   .              inward operator to enter the billed number that
   .              is to be screened.
   .              [recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    defined by the customer
   .                 else
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 177
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              International Billed Number Screening Feature.
   .              After a LIDB BNS database query, this announcement
   .              is provided to the international operator.
   .              The announcement is used to inform the distant
   .              inward operator that the billed number which was
   .              entered is invalid and to re-enter the number.
   .              [ recommended utterances:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    defined by the customer
   .                 else
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 178
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              International Billed Number Screening Feature.
```

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```
   .             After a LIDB BNS database query, this announcement
   .             is provided to the international operator.
   .             The announcement is used to inform the distant
   .             inward operator that the billed number which was
   .             entered a second time is also invalid.
   .             [ recommended utterance:
   .               if microcode 5D172A3 exists in RLraf_mbd
   .                   defined by the customer
   .               else
   .                   defined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 179
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for the
   .             International Billed Number Screening Feature.
   .             After a LIDB BNS database query, this announcement
   .             is provided to the international operator.
   .             The announcement is used to inform the distant
   .             inward operator that the billed number which was
   .             entered is allowed to accept collect billing.
   .             [ recommended utterance:
   .                   defined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 180
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for the
   .             International Billed Number Screening Feature.
   .             After a LIDB BNS database query, this announcement
   .             is provided to the international operator.
   .             The announcement is used to inform the distant
   .             inward operator that the billed number which was
   .             entered is not allowed to accept collect billing.
   .             [ recommended utterance:
   .               if microcode 5D172A3 exists in RLraf_mbd
   .                   defined by the customer
   .               else
   .                   defined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 181
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for the
   .             International Billed Number Screening Feature.
```

```
   .              After a LIDB BNS database query, this announcement
   .              is provided to the international operator.
   .              This announcement is used to inform the distant
   .              inward operator that service is unavailable.
   .              [ recommended utterance:
   .                   defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 182
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              Automated Inward Billed Number Screening Feature.
   .              This announcement is used to prompt the inward
   .              operator to enter the billed number that
   .              is to be screened for Collect calls.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    defined by the customer
   .                else
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 183
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              Automated Inward Billed Number Screening Feature.
   .              This announcement is used to prompt the distant
   .              inward operator to enter the billed number that
   .              is to be screened for Third Number calls.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
   .                else
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 184
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              Automated Inward Billed Number Screening Feature.
   .              This announcement is used to inform the distant
   .              inward operator that the billed number they
   .              entered is unrecognized and to re-enter the
```

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```
   .              number.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    defined by the customer
   .                else
   .                    defined by the customer ]
phrase68



appl            - FCOSPS_TA
hdr_id          - 185
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              Automated Inward Billed Number Screening Feature.
   .              This announcement is used to inform the distant
   .              inward operator that the billed number they
   .              entered a second time is also invalid.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    defined by the customer
   .                else
   .                    defined by the customer ]
phrase68



appl            - FCOSPS_TA
hdr_id          - 186
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              Automated Inward Billed Number Screening Feature.
   .              This announcement is used to inform the distant
   .              inward operator that the billed number they
   .              entered is allowed to accept collect billing.
   .              [ recommended utterance:
   .                   defined by the customer ]
phrase68



appl            - FCOSPS_TA
hdr_id          - 187
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              Automated Inward Billed Number Screening Feature.
   .              This announcement is used to inform the distant
   .              inward operator that the billed number they
   .              entered is not allowed to accept the requested
   .              billing (collect or third number) method.
   .              [ recommended utterance:
```

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```
   .               if microcode 5D172A3 exists in RLraf_mbd
   .                   defined by the customer
   .               else
   .                   defined by the customer ]
phrase68



appl           - FCOSPS_TA
hdr_id         - 188
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for the
   .             Automated Inward Billed Number Screening Feature.
   .             This announcement is used to inform the distant
   .             inward operator that billing number they entered
   .             is the number of a public station.
   .             [ recommended utterance:
   .               if microcode 5D172A3 exists in RLraf_mbd
   .                   defined by the customer
   .               else
   .                   defined by the customer ]
phrase68



appl           - FCOSPS_TA
hdr_id         - 189
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the Interchangeable NPAs Feature.  This
   .             announcement, given upon the second attempt
   .             failure, will request the caller to hang up
   .             and enter the full ten digit number,
   .             including the area code.
   .             [ recommended utterance:
   .               if microcode 5D172A3 exists in RLraf_mbd
   .                   defined by the customer ]
phrase68



appl           - FCOSPS_TA
hdr_id         - 190
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the BNS Fraud feature.  This announcement
   .             is given on an initial call when an invalid
   .             ACCS number was entered and the error
   .             threshold has been reached.  The customer is
   .             requested to hang up and reoriginate the call.
   .             [ recommended utterances:
   .                   defined by the customer ]
```

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```
phrase68



appl            - FCOSPS_TA
hdr_id          - 191
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Purchase Limits Balance Quotation
   .              feature.  This announcement is given when
   .              a Purchase Limits Balance Quotation card
   .              is being used and the feature is active.
   .              The reply from the NCP indicates the PL
   .              feature and gives remaining value.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 192
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Card Based Speed Dialing feature.
   .              This announcement is given on an initial call,
   .              after the first attempt fails, to inform the
   .              customer that the call cannot be billed to
   .              the card given.  The customer is requested
   .              to dial their AT&T card number.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68



appl            - FCOSPS_TA
hdr_id          - 193
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Card Based Speed Dialing feature.
   .              This announcement is given on an initial call,
   .              after the second attempt to use the card fails,
   .              to inform the caller that the call cannot
   .              billed to the card.  The customer is
   .              requested to hang up and reoriginate the call.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
```

```
hdr_id          - 194
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Card Based Speed Dialing
   .              feature.  This announcement is given when
   .              the card does not permit completion of the
   .              call because a reply was received which
   .              denied the speed dial call for an invalid
   .              speed dial code or when speed dialing is not
   .              allowed.  The caller is instructed to hold
   .              for an operator or hang up.
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68



appl            - FCOSPS_TA
hdr_id          - 195
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Card Based Speed Dialing
   .              feature.  This announcement is given when
   .              the speed dial forward number fails digit
   .              analysis.  The customer is requested
   .              to hang up and reoriginate the call.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 196
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Card Based Speed Dialing
   .              feature.  This announcement is given when
   .              the card does not permit completion of the
   .              call because a reply was received which
   .              denied the speed dial call for an invalid
   .              speed dial code.  The caller is instructed
   .              to redial the number they are calling.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 197
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
```

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```
   .             for the Card Based Speed Dialing
   .             feature.  This announcement is given when
   .             the card does not permit completion of the
   .             call because a reply was received  after
   .             collecting the forward number which
   .             denied the speed dial call for an invalid
   .             speed dial code.  The caller is instructed
   .             to hold for an operator or hang up.
   .             [ recommended utterances:
   .               if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 198
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the Card Based Speed Dialing
   .             feature.  This announcement is given when
   .             the card does not permit completion of the
   .             call because a reply was received which
   .             denied the speed dial call because speed dialing
   .             is not allowed.  The caller is instructed
   .             to redial the number they are calling.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 199
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the Card Based Speed Dialing
   .             feature.  This announcement is given when
   .             the card does not permit completion of the
   .             call because a reply was received  after
   .             collecting the forward number which
   .             denied the speed dial call because speed dialing
   .             is not allowed.  The caller is instructed
   .             to hold for an operator or hang up.
   .             [ recommended utterances:
   .               if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 200
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the DIOR Sequence Calling Enhancements
   .             feature.  This announcement is given when the
```

```
   .              forward party is busy or the called number
   .              status is undefined,
   .              the DIOR OTTO feature is active, and the
   .              country/carrier combination does NOT allow
   .              automated sequence dialing.  The caller is
   .              instructed to hold for an operator.
   .              [ recommended utterances:
   .                if microcode 5D172A1, 5D172A2 or 5D172A3
   .               exists in RLraf_mbd
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 201
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Sequence Calling Enhancements
   .              feature.  This announcement is given when the
   .              forward party is busy or the called number
   .              status is undefined,
   .              the DIOR OTTO feature is active, and the
   .              country/carrier combination does allow
   .              automated sequence dialing.  The caller is
   .              instructed to press pound or hold for an operator.
   .              [ recommended utterances:
   .                if microcode 5D172A1, 5D172A2 or 5D172A3
   .               exists in RLraf_mbd
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 202
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Sequence Calling Enhancements
   .              feature.  This announcement is given when
   .              the DIOR OTTO feature is active, a BUSY was
   .              returned from CCS7, and the
   .              country/carrier combination does NOT allow
   .              automated sequence dialing.  The caller is
   .              instructed to hold for an operator.
   .              [ recommended utterances:
   .                if microcode 5D172A1, 5D172A2 or 5D172A3
   .               exists in RLraf_mbd
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 203
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
```

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```
   .             for the DIOR Sequence Calling Enhancements
   .             feature.  This announcement is given when
   .             the DIOR OTTO feature is active, a BUSY was
   .             returned from CCS7, and the
   .             country/carrier combination does allow
   .             automated sequence dialing.  The caller is
   .             instructed to press pound or hold for an operator.
   .             [ recommended utterances:
   .               if microcode 5D172A1, 5D172A2 or 5D172A3
   .              exists in RLraf_mbd
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 204
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the DIOR Sequence Calling Enhancements
   .             feature.  This announcement is given when
   .             the DIOR OTTO feature is active, a R/NA was
   .             returned from CCS7, and a Voice Messaging
   .             feature is active.  The caller is
   .             instructed to press pound one two three
   .             to leave a message or hold for an operator.
   .             [ recommended utterances:
   .               if microcode 5D172A1, 5D172A2 or 5D172A3
   .              exists in RLraf_mbd
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 205
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the DIOR Sequence Calling Enhancements
   .             feature.  This announcement is given when
   .             the DIOR OTTO feature is active, a BUSY was
   .             returned from CCS7, and a Voice Messaging
   .             feature is active.  The caller is
   .             instructed to press pound one two three
   .             to leave a message or hold for an operator.
   .             [ recommended utterances:
   .               if microcode 5D172A1, 5D172A2 or 5D172A3
   .              exists in RLraf_mbd
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 206
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
```

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```
   .             for the LIDB-Recognition of PSDI Value 4
   .             feature.  This announcement is given as the
   .             first error announcement for initial automated
   .             and sequence calls when the LIDB-Recognition
   .             of PSDI Value 4 feature is active, and a LIDB
   .             or ANSI(R) Type 1 calling card validation response
   .             contains a "PSDI Not Equal To No Service Denial"
   .             with a value four.  The caller is instructed to
   .             dial a different card number.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 207
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the LIDB-Recognition of PSDI Value 4
   .             feature.  This announcement is given as the
   .             second error announcement for initial automated
   .             and sequence calls when the LIDB-Recognition
   .             of PSDI Value 4 feature is active, and a LIDB
   .             or ANSI(R) Type 1 calling card validation response
   .             contains a "PSDI Not Equal To No Service Denial"
   .             with a value four.  The caller is instructed to
   .             hang up and arrange other billing.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 208
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the LIDB-Recognition of PSDI Value 4
   .             feature.  This announcement is given as the
   .             first error announcement for Automated Inward
   .             calls when the LIDB-Recognition of PSDI Value
   .             4 feature is active, and a LIDB or ANSI(R) Type 1
   .             calling card validation response contains a
   .             "PSDI Not Equal To No Service Denial" with a
   .             value four.  The operator is instructed to
   .             dial again.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 209
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
```

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```
   .             for the LIDB-Recognition of PSDI Value 4
   .             feature.  This announcement is given for
   .             Automated Inward calls when the LIDB-Recognition
   .             of PSDI Value 4 feature is active, a LIDB or ANSI(R)
   .             Type 1 calling card validation response contains a
   .             "PSDI Not Equal To No Service Denial" with a
   .             value four, and the error threshold has been met.
   .             The operator is instructed to hang up.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 210
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the Speed Dial Auto Provisioning
   .             feature.  This announcement is given for
   .             automated 1+800+SDAP calls whose SDL query is
   .             returned with a value of "Speed Dialing Not
   .             Allowed".  The caller is instructed to call
   .             and 800 number.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 211
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the Speed Dial Auto Provisioning
   .             feature.  This announcement is given as a
   .             prompt when a 1+800+SDAP Access call is made.
   .             The caller is instructed to enter their card
   .             number and PIN.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 212
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the Pre-Paid Overtime for Coin feature.
   .             This announcement is given to warn the caller
   .             that the end of the pre-paid period is approaching.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 213
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Pre-Paid Overtime for Coin feature.
   .              This announcement is given to request the caller
   .              to make a deposit for more overtime.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

**7. ALT_HDR Population rules continued.**

```
appl            - FCOSPS_TA
hdr_id          - 214
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Sequence Calling Enhancements
   .              feature.  This announcement is given after
   .              the forward party goes on-hook when
   .              the DIOR OTTO feature is active, but the
   .              country/carrier combination does NOT allow
   .              automated sequence dialing.  The caller is
   .              instructed to hold for an operator.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 215
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Sequence Calling Enhancements
   .              feature.  This announcement is given after
   .              the forward party goes on-hook when
   .              the DIOR OTTO feature is active, and the
   .              country/carrier combination does allow
   .              automated sequence dialing.  The caller is
   .              instructed to press pound or hold for an operator.
   .              [ recommended utterances:
   .                if microcode 5D172A1, 5D172A2 or 5D172A3
   .               exists in RLraf_mbd
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 216
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Terminating Point Restrictions (TPR)
```

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```
   .              Expansion feature.  This announcement is given
   .              on automated initial card or sequence card or
   .              sent-paid calls that are TPR blocked.  The
   .              caller is instructed to hang up.
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 217
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Toll Free 800 feature.  This
   .              announcement is given the first time the
   .              ENS query returns not allowed for the dialed
   .              800 number.  The caller is instructed to
   .              dial another number.
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 218
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Toll Free 800 feature.  This
   .              announcement is given the second time the
   .              ENS query returns not allowed for the dialed
   .              800 number.  The caller is instructed to hang up.
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 219
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Calling Card Screening by Carrier
   .              feature.  This announcement is given when the
   .              card number collected is not compatible with
   .              the current carrier.  The caller is prompted
   .              for another card number.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 220
```

```
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Calling Card Screening by Carrier
   .              feature.  This announcement is given the
   .              second time the card number collected is not
   .              compatible with the current carrier.  The
   .              caller is instructed to hang up.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 221
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Calling Card Screening by Carrier
   .              feature.  This announcement is given when the
   .              carrier for the sequence number entered is
   .              not compatible with the calling
   .              card.  The caller is prompted for a different
   .              telephone number.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 222
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Calling Card Screening by Carrier
   .              feature.  This announcement is given the
   .              second time the carrier for the sequence
   .              number entered is not compatible with the
   .              calling card.  The caller is instructed
   .              to hang up.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 223
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Toll Free 800 feature.  This
   .              announcement is given when an automated initial
   .              call is determined to be "Toll Free".
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 224
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Network Access Interrupt feature.  This
   .              announcement is given when Deny reply code 1
   .              is returned from a query.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 225
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Network Access Interrupt feature.  This
   .              announcement is given when Deny reply code 4
   .              is returned from a query.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 226
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Network Access Interrupt feature.  This
   .              announcement is given when Deny reply code 5
   .              is returned from a query.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 227
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Network Access Interrupt feature.  This
   .              announcement is given when Deny reply code 22
   .              is returned from a query.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 228
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Network Access Interrupt feature.  This
```

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```
   .              announcement is given when Deny reply code 23
   .              is returned from a query.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 229
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Network Access Interrupt feature.  This
   .              announcement is given when Deny reply code 24
   .              is returned from a query.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 230
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Country Pair Screening Release 2
   .              feature.  This announcement is given when
   .              this feature is active and the CPS Card Screening
   .              indicator is set.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 231
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Carrier Specific Branding feature.
   .              This announcement is given on seizure of
   .              'rated' ACTS calls when this feature is active
   .              and carrier branding is on.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 232
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Carrier Specific Branding feature.
   .              This announcement is given on seizure of
   .              ACCS calls when this feature is active
   .              and carrier branding is on.
   .              [ recommended utterances:
```

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```
   .                  defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 233
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Carrier Specific Branding feature.
   .              This announcement is given before routing of
   .              ACCS and ACTS calls when this feature is active
   .              and carrier branding is on.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 234
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Carrier Specific Branding feature.
   .              This announcement is given before routing of
   .              ACTS calls when this feature is active, there
   .              is a credit balance, and carrier branding is on.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 235
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Carrier Specific Branding feature.
   .              This announcement is given on seizure of
   .              'flat charge' ACTS calls when this feature is active
   .              and carrier branding is on.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 236
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the International Billed Number Screening
   .              (IBNS) Release 2 feature.
   .              This announcement is given to inform operators
   .              that the called number is a public phone or that
   .              collect billing to that number is not allowed.
   .              [ recommended utterances:
   .                if microcode 5D155* exists in RLraf_mbd
```

```
   .                  defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 237
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
  .               for the Inmate Calling Services (ICS) feature.
  .               This announcement is given to turn back the caller
  .               when an error is encountered.
  .               [ recommended utterance:
  .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 238
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automated Calling Card Services for
   .              Commercial Credit Cards (ACCS for CCC) feature.
   .              This announcement is given to prompt the
   .              calling card customer for the expiration date.
   .              [ recommended utterances:
   .                if microcode 5D155* exists in RLraf_mbd
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 239
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automated Calling Card Services for
   .              Commercial Credit Cards (ACCS for CCC) feature.
   .              This announcement is given to reprompt the
   .              calling card customer for the card number and
   .              expiration date after the previous attempt
   .              resulted in an invalid card number.
   .              [ recommended utterances:
   .                if microcode 5D155* exists in RLraf_mbd
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 240
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automated Calling Card Services for
   .              Commercial Credit Cards (ACCS for CCC) feature.
   .              This announcement is given to inform the
```

```
   .              calling card customer that the card number
   .              and expiration date have been correctly
   .              entered and that the call will proceed with
   .              normal ACCS processing.
   .              [ recommended utterances:
   .                    defined by the customer ]
phase68


appl            - FCOSPS_TA
hdr_id          - 241
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 242
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 243
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 244
alt_ann         - 1-1022
```

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```
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 245
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 246
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 247
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
```

```
hdr_id          - 248
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 249
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 250
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 251
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 252
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 253
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 254
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 255
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
```

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```
phrase68


appl            - FCOSPS_TA
hdr_id          - 256
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 257
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 258
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 259
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
```

```
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 260
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 261
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 262
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 263
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
```

```
   .             customer, will provide a customized announcement
   .             as part of the balance quotation for the call.
   .             [ recommended utterances:
   .                    determined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 264
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for the
   .             PLBQ Business/Residential Promotional Card
   .             feature.  This announcement, constructed by the
   .             customer, will provide a customized announcement
   .             as part of the balance quotation for the call.
   .             [ recommended utterances:
   .                    determined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 265
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for the
   .             PLBQ Business/Residential Promotional Card
   .             feature.  This announcement, constructed by the
   .             customer, will provide a customized announcement
   .             as part of the balance quotation for the call.
   .             [ recommended utterances:
   .                    determined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 266
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for the
   .             PLBQ Business/Residential Promotional Card
   .             feature.  This announcement, constructed by the
   .             customer, will provide a customized announcement
   .             as part of the balance quotation for the call.
   .             [ recommended utterances:
   .                    determined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 267
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for the
```

```
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 268
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 269
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 270
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 271
alt_ann         - 1-1022
```

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```
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 272
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 273
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 274
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
```

```
hdr_id          - 275
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 276
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 277
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 278
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 279
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 280
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 281
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 282
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
```

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```
phrase68


appl            - FCOSPS_TA
hdr_id          - 283
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 284
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 285
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68
```

**8. ALT_HDR Population rules continued.**

```
appl            - FCOSPS_TA
hdr_id          - 286
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
```

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```
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 287
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 288
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 289
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 290
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
```

```
   .             Card feature.  This announcement, constructed by
   .             the customer, will provide an additional announcement
   .             as part of the warning announcement for the call.
   .             [ recommended utterances:
   .                    determined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 291
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the PLBQ Business/Residential Promotional
   .             Card feature.  This announcement, constructed by
   .             the customer, will provide an additional announcement
   .             as part of the warning announcement for the call.
   .             [ recommended utterances:
   .                    determined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 292
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the PLBQ Business/Residential Promotional
   .             Card feature.  This announcement, constructed by
   .             the customer, will provide an additional announcement
   .             as part of the warning announcement for the call.
   .             [ recommended utterances:
   .                    determined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 293
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the PLBQ Business/Residential Promotional
   .             Card feature.  This announcement, constructed by
   .             the customer, will provide an additional announcement
   .             as part of the warning announcement for the call.
   .             [ recommended utterances:
   .                    determined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 294
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
```

```
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 295
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 296
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 297
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 298
```

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```
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 299
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 300
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 301
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override
   .              (ATCO) feature.  This announcement will be given
   .              when the card call is restricted by TCS/CPS and
   .              the call will be verified by ATCO processing.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 302
```

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```
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override (ATCO)
   .              feature.  Either this announcement or 303 will be
   .              given to pass the card number to the ICVC attendant.
   .              The combination of 302/303, 304/305 and 316,
   .              and 306/307 will be given as a set.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 303
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override (ATCO)
   .              feature.  Either this announcement or 302 will be
   .              given to pass the card number to the ICVC attendant.
   .              The combination of 302/303, 304/305 and 316,
   .              and 306/307 will be given as a set.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 304
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override (ATCO)
   .              feature.  This announcement will be given to pass
   .              the domestic forward number to the ICVC attendant.
   .              The combination of 302/303, 304/305 and 316,
   .              and 306/307 will be given as a set.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 305
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override (ATCO)
   .              feature.  This announcement will be
   .              given to pass the country code to the ICVC
   .              attendant.
   .              The combination of 302/303, 304/305 and 316,
   .              and 306/307 will be given as a set.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 306
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override (ATCO)
   .              feature.  Either this announcement or 307 will be
   .              given to pass the back number to the ICVC attendant.
   .              The combination of 302/303, 304/305 and 316,
   .              and 306/307 will be given as a set.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 307
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override (ATCO)
   .              feature.  Either this announcement or 306 will be
   .              given to pass the back number to the ICVC attendant.
   .              The combination of 302/303, 304/305 and 316,
   .              and 306/307 will be given as a set.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 308
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override
   .              (ATCO) feature.  This announcement will be given
   .              to provide DTMF dialing instructions to the ICVC
   .              attendant after the call data has been given but
   .              before the verification conversation has taken place.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 309
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override
   .              (ATCO) feature.  This announcement will be given
   .              to provide DTMF dialing instructions to the ICVC
   .              attendant during/after verification conversation.
   .              [ recommended utterances:
   .                     determined by the customer ]
```

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```
phrase68

appl            - FCOSPS_TA
hdr_id          - 310
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override
   .              (ATCO) feature.  This announcement will be given
   .              after the ICVC attendant has signaled back to
   .              the OSPS that verification with the caller is
   .              needed and the OSPS has "unsplit" the caller.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 311
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override
   .              (ATCO) feature.  This announcement will be given
   .              when the ICVC attendant signals for assistance
   .              from an OSPS operator or the call is bailing out
   .              to an OSPS operator due to a failure in ATCO
   .              processing.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 312
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override
   .              (ATCO) feature.  This announcement will be given
   .              when the ICVC attendant has signaled back a
   .              "denial" to the OSPS.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 313
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override
   .              (ATCO) feature.  This announcement will be given
   .              to the ICVC attendant whenever the OSPS receives
   .              a DTMF response of "denial", "allow", or
   .              "other billing".
```

```
   .             [ recommended utterances:
   .                    determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 314
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override
   .              (ATCO) feature.  This announcement will be given
   .              to the ICVC attendant some number of seconds
   .              prior to the call being bailed out to an OSPS
   .              operator position because of a longer than usual
   .              delay in ATCO processing.
   .              [ recommended utterances:
   .                    determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 315
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override
   .              (ATCO) feature.  This announcement will be given
   .              whenever the ICVC attendant enters an invalid
   .              entry or During the Caller Interaction Segment
   .              of an ATCO call, if the final disposition timer
   .              is active and the entry for a Help Request is
   .              received.
   .              [ recommended utterances:
   .                    determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 316
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override (ATCO)
   .              feature.  This announcement will be
   .              given to pass up to 5 digits after the country
   .              code to the ICVC attendant.
   .              The combination of 302/303, 304/305 and 316,
   .              and 306/307 will be given as a set.
   .              [ recommended utterances:
   .                    determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 317
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
```

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```
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Alternate Access to Language Specific
   .              Operator Services (AATLSOS) Automated Access
   .              Prompting (AAP) using Call Processing Data Link
   .              (CPDL) Interface feature. This announcement
   .              will be given to announce that the AAP
   .              service is currently unavailable, and to try
   .              again later.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 318
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Alternate Access to Language Specific
   .              Operator Services (AATLSOS) Automated Access
   .              Prompting (AAP) using Call Processing Data Link
   .              (CPDL) Interface feature. This announcement
   .              will be given for the forward number prompt
   .              when the Complete Call message does not
   .              contain the forward number.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 319
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Alternate Access to Language Specific
   .              Operator Services (AATLSOS) Automated Access
   .              Prompting (AAP) using Call Processing Data Link
   .              (CPDL) Interface feature. This announcement
   .              will be given for the forward number re-prompt
   .              when the Complete Call message does not
   .              contain the forward number, and after the
   .              initial prompt, the entered forward number
   .              fails digit analysis.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 320
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Alternate Access to Language Specific
   .              Operator Services (AATLSOS) Automated Access
   .              Prompting (AAP) using Call Processing Data Link
```

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```
   .              (CPDL) Interface feature. This announcement
   .              will be given for the forward number re-prompt
   .              when the Complete Call message does not
   .              contain the forward number, and after the
   .              initial prompt, the forward and card numbers
   .              are entered, and the forward number fails
   .              digit analysis.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 321
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Alternate Access to Language Specific
   .              Operator Services (AATLSOS) Automated Access
   .              Prompting (AAP) using Call Processing Data Link
   .              (CPDL) Interface feature. This announcement
   .              will be given for the forward number re-prompt
   .              when the Complete Call message contains the
   .              forward number, but the forward number fails
   .              digit analysis.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 322
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Alternate Access to Language Specific
   .              Operator Services (AATLSOS) Automated Access
   .              Prompting (AAP) using Call Processing Data Link
   .              (CPDL) Interface feature. This announcement
   .              will be given for the forward number re-prompt
   .              when the Complete Call message contains both
   .              the forward and card numbers, but the forward
   .              number fails digit analysis.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 323
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Voice Messaging Service (VMS)
   .              Access Dialing Changes feature.
   .              This announcement will be given for the
   .              non-DIOR originations, that informs the
```

```
   .              caller that the destination number is busy.
   .              The announcement may also include instructions
   .              as to how the caller can leave a message.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 324
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Voice Messaging Service (VMS)
   .              Access Dialing Changes feature.
   .              This announcement will be given for the
   .              DIOR originations, that informs the
   .              caller that the destination number is busy.
   .              The announcement may also include instructions
   .              as to how the caller can leave a message.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 325
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Voice Messaging Service (VMS)
   .              Access Dialing Changes feature.
   .              This announcement will be given for the
   .              non-DIOR originations, that informs the
   .              caller that the forward party is not answering.
   .              The announcement may also include instructions
   .              as to how the caller can leave a message.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 326
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Voice Messaging Service (VMS)
   .              Access Dialing Changes feature.
   .              This announcement will be given for the
   .              DIOR originations, that informs the
   .              caller that the forward party is not answering.
   .              The announcement may also include instructions
   .              as to how the caller can leave a message.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 327
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Voice Messaging Service (VMS)
   .              Access Dialing Changes feature.
   .              This announcement will be given for
   .              both DIOR and non-DIOR originations, that
   .              informs the caller that access to VMS is not
   .              allowed.  This announcement, which is a first
   .              error report, will be played either because the
   .              associated calling card or destination number
   .              is ineligible for VMS treatment.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 328
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Voice Messaging Service (VMS)
   .              Access Dialing Changes feature.
   .              This announcement will be given for
   .              both DIOR and non-DIOR originations, that
   .              informs the caller that access to VMS is not
   .              allowed.  This announcement, which is a second
   .              error report, will be played either because the
   .              associated calling card or destination number
   .              is ineligible for VMS treatment.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 329
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Voice Messaging Service (VMS)
   .              Access Dialing Changes feature.
   .              This announcement will be given for
   .              both DIOR and non-DIOR originations, that
   .              informs the caller that s/he has entered an
   .              invalid ESP Access Code.  This announcement
   .              is provided when the caller has requested a
   .              transfer to VMS by dialing only the ESP Access
   .              Code (that is, the caller did not precede the
   .              entry with #).  The announcement, which is a
   .              first error report, may also include additional
   .              instructions as to how the caller can leave a
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```
   .              message or how to make another call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 330
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Voice Messaging Service (VMS)
   .              Access Dialing Changes feature.
   .              This announcement will be given for
   .              both DIOR and non-DIOR originations, that
   .              informs the caller that s/he has entered an
   .              invalid ESP Access Code.  This announcement
   .              is provided when the caller has requested a
   .              transfer to VMS using the existing dialing
   .              method (that is, #-VMS Service Code-ESP Access
   .              Code).  The announcement, which is a
   .              first error report, may also include additional
   .              instructions as to how the caller can leave a
   .              message or how to make another call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 331
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Voice Messaging Service (VMS)
   .              Access Dialing Changes feature.
   .              This announcement will be given for
   .              both DIOR and non-DIOR originations, that
   .              informs the caller that s/he has entered an
   .              invalid ESP Access Code.  The announcement,
   .              which is a second error report, will instruct
   .              the caller to hang up.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 332
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customer Account Services (CAS)
   .              International Intercept feature.
   .              This announcement will be given to announce
   .              the Terminating Code Screening (TCS) or
```

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```
   .              Country Pair Screening (CPS) to the
   .              International Card Verification Center (ICVC)
   .              attendant.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 333
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customer Account Services (CAS)
   .              International Intercept feature.
   .              This announcement will be given to announce
   .              the Intercept screening to the International
   .              Card Verification Center (ICVC) attendant.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 334
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customer Account Services (CAS)
   .              International Intercept feature.
   .              This announcement will be given to announce
   .              the Terminating Code Screening (TCS) or
   .              Country Pair Screening (CPS) with
   .              Intercept screening to the
   .              International Card Verification Center (ICVC)
   .              attendant.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 335
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Voice Messaging Service (VMS)
   .              Access Dialing Changes feature with the
   .              VMS Implicit Transfer Activation parameter
   .              activated.
   .              This announcement will be given for the
   .              non-DIOR originations, that informs the
   .              caller that the destination number is busy.
   .              The announcement may also include instructions
   .              as to how the caller can leave a message.
   .              [ recommended utterances:
   .                     determined by the customer ]
```

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```
phrase68

appl            - FCOSPS_TA
hdr_id          - 336
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 337
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 338
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 339
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
```

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```
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 340
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 341
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 342
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 343
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
```

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```
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 344
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 345
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 346
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 347
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
```

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```
   .             Directory Assistance - Release 3 feature.
   .
   .             This announcement will be given for calls
   .             that receive CICADA-R3 call completion offer.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 348
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for
   .             the Completion of Inter-LATA Calls Accessing
   .             Directory Assistance - Release 3 feature.
   .
   .             This announcement will be given for calls
   .             that receive CICADA-R3 call completion offer.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 349
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for
   .             the Completion of Inter-LATA Calls Accessing
   .             Directory Assistance - Release 3 feature.
   .
   .             This announcement will be given for calls
   .             that receive CICADA-R3 call completion offer.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 350
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for
   .             the Completion of Inter-LATA Calls Accessing
   .             Directory Assistance - Release 3 feature.
   .
   .             This announcement will be given for calls
   .             that receive CICADA-R3 call completion offer.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 351
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
```

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```
phrase01        - Announcement Header Phrase IDs/Commands for
   .              Direct Integrated Access to Language Enhanced
   .              Capabilities (DIALECT).
   .
   .              This announcement will be given for DIOR
   .              Initial Prompt that applies to Language
   .              Access Codes calls.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 352
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              Direct Integrated Access to Language Enhanced
   .              Capabilities (DIALECT).
   .
   .              This announcement will be given for an AATOS
   .              Initial Prompt that applies to Language
   .              Access Codes calls.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

**9. ALT_HDR Population rules continued.**

```
appl            - FCOSPS_TA
hdr_id          - 353
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              Direct Integrated Access to Language Enhanced
   .              Capabilities (DIALECT).
   .
   .              This announcement will be given for a
   .              Language Menu.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 354
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              Direct Integrated Access to Language Enhanced
   .              Capabilities (DIALECT).
   .
   .              This announcement will be given for a
   .              Language Access Code Denial.
   .              [ recommended utterances:
   .                    defined by the customer ]
```

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```
phrase68

appl            - FCOSPS_TA
hdr_id          - 355
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              Direct Integrated Access to Language Enhanced
   .              Capabilities (DIALECT).
   .
   .              This announcement will be given for a
   .              Language Menu Denial.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 356
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              Direct Integrated Access to Language Enhanced
   .              Capabilities (DIALECT).
   .
   .              This announcement will be given for a
   .              DIOR Destination Number Reprompt
   .              when Language Access Codes apply to the call.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 357
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              Direct Integrated Access to Language Enhanced
   .              Capabilities (DIALECT).
   .
   .              This announcement will be given for a
   .              AATOS Destination Number Reprompt
   .              when Language Access Codes apply to the call.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 360
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Automated Announcement Branding for
   .              Direct Wireless Service Providers feature.
   .
   .              This announcement will be given for calls
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```
   .             that are 1+ wireless special applications (SA) calls.
   .             [ recommended utterances:
   .                   125, 325 ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 361
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for
   .             the Purchase Limits Balance Quotation (PLBQ)
   .             With Add-On Capabilities feature.
   .
   .             This announcement will serve as an
   .             insufficient balance - 1st attempt error
   .             announcement.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 362
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for
   .             the Purchase Limits Balance Quotation (PLBQ)
   .             With Add-On Capabilities feature.
   .
   .             This announcement will serve as an
   .             insufficient balance - 2nd attempt error
   .             announcement.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 363
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for
   .             the Purchase Limits Balance Quotation (PLBQ)
   .             With Add-On Capabilities feature.
   .
   .             This announcement will serve as an
   .             add-on card warning announcement when a
   .             regular warning interval applies.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 364
alt_ann        - 1-1022
dur            - (as calculated using the following duration rules)
```

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```
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Purchase Limits Balance Quotation (PLBQ)
   .              With Add-On Capabilities feature.
   .
   .              This announcement will serve as an
   .              add-on card hold announcement.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 365
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Purchase Limits Balance Quotation (PLBQ)
   .              With Add-On Capabilities feature.
   .
   .              This announcement will serve as an
   .              add-on card prompt announcement.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 366
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Purchase Limits Balance Quotation (PLBQ)
   .              With Add-On Capabilities feature.
   .
   .              This announcement will serve as an
   .              add-on card only - 1st attempt error
   .              announcement.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 367
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Purchase Limits Balance Quotation (PLBQ)
   .              With Add-On Capabilities feature.
   .
   .              This announcement will serve as an
   .              add-on card only - 2nd attempt error
   .              announcement.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 368
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Purchase Limits Balance Quotation (PLBQ)
   .              With Add-On Capabilities feature.
   .
   .              This announcement will serve as an
   .              add-on card continue announcement.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 369
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Purchase Limits Balance Quotation (PLBQ)
   .              With Add-On Capabilities feature.
   .
   .              This announcement will serve as a
   .              called party good-bye announcement.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 370
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Purchase Limits Balance Quotation (PLBQ)
   .              With Add-On Capabilities feature.
   .
   .              This announcement will serve as a
   .              calling party good-bye announcement.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 371
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Automated Sequential Card Queries (ASCQ)
   .              feature.
   .
   .              This announcement will serve as an
   .              Automated Inward calls after proprietary
   .              card announcement.
   .              [ recommended utterances:
```

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```
   .                  defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 372
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Purchase Limits Balance Quotation (PLBQ)
   .              With Add-On Capabilities feature.
   .
   .              This announcement will serve as an
   .              add-on card warning announcement when a
   .              short allowed time warning interval applies.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 373
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for:
   .              Reprompt announcement for the card number due to
   .              erasure of the dialed forward number digits for the
   .              800 Peel out for calling card feature.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 374
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for:
   .              Reprompt announcement for the card number due to
   .              erasure of the dialed card number digits for the
   .              800 Peel out for calling card feature.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 375
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for:
   .              Card number prompt announcement with account owner phrase
   .              for automated calling card service with bailout
   .              to an operator for (OLNS) feature.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

```
        appl            - FCOSPS_TA
        hdr_id          - 376
        alt_ann         - 1-1022
        dur             - (as calculated using the following duration rules)
        phrase01        - Announcement Header Phrase IDs/Commands for:
           .              Card number prompt announcement with account owner phrase
           .              for automated calling card service without bailout
           .              to an operator for (OLNS) feature.
           .              [ recommended utterances:
           .                    defined by the customer ]
        phrase68

        appl            - FCOSPS_TA
        hdr_id          - 377
        alt_ann         - 1-1022
        dur             - (as calculated using the following duration rules)
        phrase01        - Announcement Header Phrase IDs/Commands for:
           .              This announcement provides a forward number reprompt
           .              on sequence calls when only domestic calls can be
           .              billed to card calls from the back number for (OLNS) featur
e.
           .              [ recommended utterances:
           .                    defined by the customer ]
        phrase68

        appl            - FCOSPS_TA
        hdr_id          - 378
        alt_ann         - 1-1022
        dur             - (as calculated using the following duration rules)
        phrase01        - Announcement Header Phrase IDs/Commands for:
           .              This announcement provides a forward number reprompt
           .              on sequence calls when card is not allowed for calls
           .              to directory assistance numbers for (OLNS) feature.
           .              [ recommended utterances:
           .                    defined by the customer ]
        phrase68

        appl            - FCOSPS_TA
        hdr_id          - 379
        alt_ann         - 1-1022
        dur             - (as calculated using the following duration rules)
        phrase01        - Announcement Header Phrase IDs/Commands for:
           .              This announcement provides a forward number error
           .              and reprompt where operator access is blocked, but
           .              card is allowed, and the caller enters a zero in
           .              response to the card prompt for (OLNS) feature.
           .              [ recommended utterances:
           .                    defined by the customer ]
        phrase68

        appl            - FCOSPS_TA
        hdr_id          - 380
        alt_ann         - 1-1022
```

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```
        dur             - (as calculated using the following duration rules)
        phrase01        - Announcement Header Phrase IDs/Commands for:
           .              This announcement is used when there is nothing the
           .              caller can do to further automate the call, and
           .              operator access is blocked. It is followed by
           .              disconnect for (OLNS) feature.
           .              [ recommended utterances:
           .                    defined by the customer ]
        phrase68

        appl            - FCOSPS_TA
        hdr_id          - 381
        alt_ann         - 1-1022
        dur             - (as calculated using the following duration rules)
        phrase01        - Announcement Header Phrase IDs/Commands for:
           .              This announcement provides card number prompt without
           .              account owner phrase for automated calling card service wit
hout
           .              bailout to an operator for (OLNS) feature.
           .              [ recommended utterances:
           .                    defined by the customer ]
        phrase68



        appl            - FCOSPS_TA
        hdr_id          - 382
        dur             - (as calculated using the following duration rules)
        phrase01        - Announcement Header Phrase IDs/Commands
           .              for the AATLSOS AAP feature.
           .              This announcement will be given as the 1st attempt
           .              initial 1-800-CALLATT prompt menu.
           .              [ recommended utterances:
           .                to be determined by customer ]
        phrase68

        appl            - FCOSPS_TA
        hdr_id          - 383
        dur             - (as calculated using the following duration rules)
        phrase01        - Announcement Header Phrase IDs/Commands
           .              for the AATLSOS AAP feature.
           .              This announcement will be given as the new
           .              Non-Tariffed services conditions and terms
           .              concatenated with the phrases of the existing
           .              1st attempt initial 1-800-CALLATT prompt menu.
           .              [ recommended utterances:
           .                to be determined by customer ]
        phrase68


        appl            - FCOSPS_TA
        hdr_id          - 384
        alt_ann         - 1-1000
        dur             - (as calculated using the following duration rules)
```

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```
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Listing Services - International Directory
   .              Assistance feature.
   .
   .              This announcement provides a card number reprompt
   .              if the Purchase Limits card is not allowed for the
   .              dialed DA destination number and the database reply
   .              is received with Purchase Limits information in an
   .              "allow" reply.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 385
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Listing Services - International Directory
   .              Assistance feature.
   .
   .              This announcement is used to provide termination
   .              treatment if the card is not allowed and a
   .              database reply is received with Purchase Limits
   .              information in an "allow" reply.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 386
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Listing Services - International Directory
   .              Assistance feature.
   .
   .              This announcement provides a new Foreign DA
   .              Operator holding announcement to inform the
   .              caller to hold for a foreign DA operator.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 387
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Listing Services - International Directory
   .              Assistance feature.
   .
   .              This announcement provides a new MECH
   .              International Directory Assistance (IDA) holding
```

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```
   .              announcement if there are no available MECH IDA
   .              conference operators after the foreign DA
   .              operator answers the call.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 388
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Listing Services - International Directory
   .              Assistance feature.
   .
   .              This announcement provides termination
   .              announcement to inform the foreign DA operator
   .              to hang up if the back party goes on-hook before
   .              a MECH IDA conference operator is available and
   .              the foreign DA operator still off-hook.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 389
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Calling Card Restrictions to
   .              Domestic Terminations feature.  This
   .              announcement will be given on a call to
   .              a domestic number for which calling card
   .              restrictions apply and verification will be
   .              provided by Automation of TCS/CPS Override
   .              (ATCO) processing.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 390
alt_ann         - 1-1022
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Limit for Customer-Controlled Reconnect
   .              to LS/DA feature.
   .
   .              This announcement will be given to inform the
   .              caller that he/she exceeded the reconnect limit
   .              for this call.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

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```
        appl            - FCOSPS_TA
        hdr_id          - 391
        alt_ann         - 1-1022
        dur             - (as calculated using the following duration rules)
        phrase01        - Announcement Header Phrase IDs/Commands for
           .              the Rate Announcement on 0+ Calls - Release 2
           .              feature.
           .
           .              This announcement will be used as the initial
           .              prompt to the calling party on AT&T rate-offer-
           .              eligible calls.
           .              [ recommended utterances:
           .                    defined by the customer ]
        phrase68

        appl            - FCOSPS_TA
        hdr_id          - 392
        alt_ann         - 1-1022
        dur             - (as calculated using the following duration rules)
        phrase01        - Announcement Header Phrase IDs/Commands for
           .              the Rate Announcement on 0+ Calls - Release 2
           .              feature.
           .
           .              This announcement will be used as the initial
           .              card prompt to the calling party on branded independent
           .              company rate-offer-eligible calls.
           .              [ recommended utterances:
           .                    defined by the customer ]
        phrase68

        appl            - FCOSPS_TA
        hdr_id          - 393
        alt_ann         - 1-1022
        dur             - (as calculated using the following duration rules)
        phrase01        - Announcement Header Phrase IDs/Commands for
           .              the Rate Announcement on 0+ Calls - Release 2
           .              feature.
           .
           .              This announcement will be used as the initial
           .              card prompt to the calling party on unbranded independent
           .              company rate-offer-eligible calls.
           .              [ recommended utterances:
           .                    defined by the customer ]
        phrase68

        ************************************************************************/
```

**Attribute:**

appl

**Fullname:**

Application

**Attribute Description:**
Announcement application

**Attribute:**
hdr_id
**Fullname:**
header id
**Attribute Description:**
The header IDs assigned need not be contiguous.
A phraseX value in the range 1-16383, 16600-MAXPHRASEID must exist as a key in the relation RLphrases along with the corresponding appl value.

**Attribute:**
alt_ann
**Fullname:**
alternate announcement set
**Attribute Description:**
The alternate code assigned need not be contiguous.
The alt_ann value is a range of 1-1022.

**Attribute:**
dur
**Fullname:**
duration
**Attribute Description:**
Dur is the expected duration of the digit string.
The value of dur is calculated by mapping code on an insert transaction. Its value is found by looping through the phrase entries until a 0 is encountered as follows:
- for each phrase entry which specifies a Phrase ID (1-16383, 16600-MAXPHRASE ID)
  the value of 'dur' in the RLphrases entry corresponding to the Phrase ID and appl specified is added into the running total
- for the values 0, 16385, 16386, 16387, 16388, 16389, 16500 - 16599
  the running total is unaffected.

**Attribute:**
spare1
**Fullname:**
spare1
**Attribute Description:**
Field used for spare and for alignment of tuple.

**Attribute:**

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phrase1

**Fullname:**

phrase or command

**Attribute Description:**

At least one non-zero entry must be specified. The end of the phrases is denoted by a zero (0) entry which MUST be present in each tuple. No non-zero entries can exist after this entry.

These values are defined as follows:

| PHRASEX | DESCRIPTION |
|---|---|
| 0 | Defines logical end of Phrase list |
| 1-46 | Digit-string related Phrase IDs (see RLPHRASES Pop Rules) |
| 47-16383 | Application Defined Phrase IDs |
| 16385 | Command - Insert a digit string here |
| 16386 | Command - Repeat the previous digit string here |
| 16387 | Command - date of last incoming call |
| 16388 | Command - time of last incoming call |
| 16389 | Command - number of dollars and cents |
| 16500-16599 | Application-Specific Commands These are defined by applications to have certain meanings. All of these are treated EXACTLY as is 16385. |
| 16600-MAXPHRASEID | Application Defined Phrase IDs |

NOTE: (MAXPHRASEID+1)-65535 are NOT used for phrase IDs but for subsystem specific purposes.

**Attribute:**

phrase[*]

**Fullname:**

phrase or command

**Attribute Description:**

At least one non-zero entry must be specified. The end of the phrases is denoted by a zero (0) entry which MUST be present in each tuple. No non-zero entries can exist after this entry.

These values are defined as follows:

| PHRASEX | DESCRIPTION |
|---|---|
| 0 | Defines logical end of Phrase list |
| 1-46 | Digit-string related Phrase IDs (see RLPHRASES Pop Rules) |
| 47-16383, | Application Defined Phrase IDs |
| 16385 | Command - Insert a digit string here |
| 16386 | Command - Repeat the previous digit string here |

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```
16387          Command - date of last incoming call
16388          Command - time of last incoming call
16389          Command - number of dollars and cents

16500-16599    Application-Specific Commands
               These are defined by applications to
               have certain meanings. All of these
               are treated EXACTLY as is 16385.
16600-MAXPHRASEID  Application Defined Phrase IDs

NOTE: (MAXPHRASEID+1)-65535 are NOT used for
phrase IDs but for subsystem specific purposes.
```

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# ALT_PLNG

## 1. Description

This relation contains table mapping English phrases to alternate language/usage phrases.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2400 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
ALT_PLNG    relid = 2604  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL


     eng_phr     DMPHRASE     (ushort) <--- key
     alt_phr     DMPHRASE     (ushort)
     spare1      DMUNS12      (ushort: 12)
     appl        DMANNC_APL   (enum: 4) <--- key
     alt_ann     DMUNS10      (ushort: 10) <--- key
         User, Compacted and Stored Tuple Layout   ALT_PLNG
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            eng_phr            |            alt_phr            |
    |---------------+---------------+---------------+---------------|
    |                       |       |                   |           |
  4 |         spare1        |  appl |      alt_ann      |**********|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLalt_plng

**Relation Description**

English Phrase to Alternate Phrase Table.

This table maps English phrases, to alternate language/usage phrases.

**Attribute:**

eng_phr

**Fullname:**

English phrase ID.

**Attribute Description:**

This is the English phrase ID to be mapped to an alternate phrase ID.

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**Attribute:**
appl
**Fullname:**
Announcement Application Type.

**Attribute Description:**
Announcement application type of the alternate phrase to which to map eng_phr. Not used at this time.

**Attribute:**
alt_ann
**Fullname:**
alternate announcement set
**Attribute Description:**
The alternate announcement assigned need not be contiguous. The alt_ann value is a range of 1-1022.

**Attribute:**
alt_phr
**Fullname:**
Alternate Phrase ID.

**Attribute Description:**
This is the alternate phrase corresponding to eng_phr for this appl.

**Attribute:**
spare1
**Fullname:**
Spare 1
**Attribute Description:**
A spare field.

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# ALT_TRL

## 1. Description

This relation contains the alternate announcement trailer phrase list.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| expected number of tuples | 50 |
| density | 63 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| tsbal | DBSPEED |
| permutation type | un_perm |

## 3. Field Layout

```
ALT_TRL     relid = 2605  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL


     appl        DMANNC_APL   (enum: 4) <--- key
     trl_id      DMANNC_ID    (ulong: 17) <--- key
     alt_ann     DMUNS10      (ushort: 10) <--- key
     dur         DMANNC_DUR   (ulong: 19)
     spare1      DMUNS13      (ushort: 13)
     phrase1     DMPHRASE     (ushort)
     phrase2     DMPHRASE     (ushort)
     phrase3     DMPHRASE     (ushort)
     phrase4     DMPHRASE     (ushort)
     phrase5     DMPHRASE     (ushort)
     phrase6     DMPHRASE     (ushort)
     phrase7     DMPHRASE     (ushort)
     phrase8     DMPHRASE     (ushort)
     phrase9     DMPHRASE     (ushort)
     phrase10    DMPHRASE     (ushort)
     phrase11    DMPHRASE     (ushort)
     phrase12    DMPHRASE     (ushort)
     phrase13    DMPHRASE     (ushort)
     phrase14    DMPHRASE     (ushort)
     phrase15    DMPHRASE     (ushort)
     phrase16    DMPHRASE     (ushort)
     phrase17    DMPHRASE     (ushort)
     phrase18    DMPHRASE     (ushort)
     phrase19    DMPHRASE     (ushort)
     phrase20    DMPHRASE     (ushort)
     phrase21    DMPHRASE     (ushort)
     phrase22    DMPHRASE     (ushort)
     phrase23    DMPHRASE     (ushort)
     phrase24    DMPHRASE     (ushort)
     phrase25    DMPHRASE     (ushort)
     phrase26    DMPHRASE     (ushort)
     phrase27    DMPHRASE     (ushort)
     phrase28    DMPHRASE     (ushort)
     phrase29    DMPHRASE     (ushort)
```

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```
    phrase30    DMPHRASE     (ushort)
    phrase31    DMPHRASE     (ushort)
    phrase32    DMPHRASE     (ushort)
    phrase33    DMPHRASE     (ushort)
    phrase34    DMPHRASE     (ushort)
    phrase35    DMPHRASE     (ushort)
    phrase36    DMPHRASE     (ushort)
    phrase37    DMPHRASE     (ushort)
    phrase38    DMPHRASE     (ushort)
    phrase39    DMPHRASE     (ushort)
    phrase40    DMPHRASE     (ushort)
    phrase41    DMPHRASE     (ushort)
    phrase42    DMPHRASE     (ushort)
    phrase43    DMPHRASE     (ushort)
    phrase44    DMPHRASE     (ushort)
    phrase45    DMPHRASE     (ushort)
    phrase46    DMPHRASE     (ushort)
    phrase47    DMPHRASE     (ushort)
    phrase48    DMPHRASE     (ushort)
    phrase49    DMPHRASE     (ushort)
    phrase50    DMPHRASE     (ushort)
        User, Compacted and Stored Tuple Layout    ALT_TRL
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |       |                                 |                   | |
 0 |  appl |              trl_id             |      alt_ann      |*|
   |---------------+---------------+---------------+---------------|
   |                                   |                           |
 4 |                 dur               |          spare1           |
   |---------------+---------------+---------------+---------------|
   |                                 |                             |
 8 |            phrase1              |            phrase2          |
   |---------------+---------------+---------------+---------------|
   |                                 |                             |
12 |            phrase3              |            phrase4          |
   |---------------+---------------+---------------+---------------|
                                     .
                                     .
                                     .
   |---------------+---------------+---------------+---------------|
   |                                 |                             |
100|            phrase47             |            phrase48         |
   |---------------+---------------+---------------+---------------|
   |                                 |                             |
104|            phrase49             |            phrase50         |
   |---------------+---------------+---------------+---------------|
      ( 108 bytes )
```

## 4. Population rules for RLalt_trl

**Relation Description**

alternate announcement trailer phrase list

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```
/*****************************************************************
 *
 *      POPULATION RULES FOR <<<< RLalt_trl >>>>
 *
 *
 *
 *      Attribute
 *      ---------
 * key  appl     DESCR:
 *               RANGE: One of the enum values defined
 *               in db/DMannc_apl.G
 *               DEFAULT: None
 *
 * key  trl_id   DESCR:.
 *               RANGE: 1-255
 *               DEFAULT: None
 *
 * key  alt_ann  DESCR: 11 bits
 *               RANGE: 1-1022
 *               DEFAULT: None
 *
 *      dur      DESCR:
 *               RANGE: 0-7200 (seconds, = 2 hrs)
 *               See below for its calculation
 *               DEFAULT: None
 *
 *      spare2   DESCR: field used for spare and for alignment of tuple
 *               RANGE: 0
 *               DEFAULT: 0
 *
 *      phrase1  DESCR:
 *        .      RANGE: 0-16383, 16385-16389, 16500-MAXPHRASEID
 *                      (NOTE: NOT 16384!)
 *        .      At least one non-zero entry must be specified.
 *        .      The end of the phrases is denoted by a zero (0)
 *        .      entry which MUST be present in each tuple. No
 *        .      non-zero entries can exist after this entry.
 *      phrase50
 *               These values are defined as follows:
 *
 *               PHRASEX         DESCRIPTION
 *               -------         -----------
 *
 *                  0            Defines logical end of Phrase list
 *                1-46           Digit-string related Phrase IDs
 *                               (see RLPHRASES Pop Rules)
 *                47-16383       Application Defined Phrase IDs
 *                16385          Command - Insert a digit string here
 *                16386          Command - Repeat the previous digit
 *                                         string here
 *                16387          Command - Date of last incoming call
 *                16388          Command - Time of last incoming call
 *                16389          Command - number of dollars and cents
```

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```
 *                16500-16599    Application-Specific Commands
 *                               These are defined by applications to
 *                               have certain meanings. All of these
 *                               are treated EXACTLY as is 16385.
 *                16600-MAXPHRASEID  Application Defined PhraseIDs
 *
 *                NOTE: (MAXPHRASEID+1)-65535 are NOT used for
 *                phrase IDs but for subsystem specific purposes.
 *
 *               DEFAULT: 0
 *
 ************************************************************************/
```

Population for OSPS Automated Calling Card Service (ACCS) and OSPS Automated COIN Announcements (ACTS)

NOTE: For ACTS announcements, the following application-specific commands are recognized:

| | | |
|---|---|---|
| 16500 | Command - | Insert a CREDIT digit string |
| 16501 | Command - | Insert a CHARGE DUE digit string |
| 16502 | Command - | Insert a CALL DURATION digit string |

QUANTITY OF TUPLES:

1 tuple per SM for ACCS.
4 tuples per SM for ACTS.

TUPLE SEMANTICS for FCOSPS_TA:

AUTOMATED CALLING CARD SERVICE
MESSAGE TRAILERS

```
appl            - FCOSPS_TA
trl_id          - 1
alt_ann         - 1-1022
dur             - (As calculated using pop rules.)
phrase01        - Announcement Trailer Phrase IDs/Commands
   .              for the ACCS LIDB phrase for subaccount number
   .              [ recommended utterances:
   .                     defined by the customer ]
phrase50
```

AUTOMATED COIN TOLL SERVICE
MESSAGE TRAILERS

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```
        appl            - FCOSPS_TA
        trl_id          - 101
        alt_ann         - 1-1022
        dur             - (as calculated in rc-oda rules)
        phrase01        [ recommended utterances:
           .                    defined by the customer ]
        phrase50


        appl            - FCOSPS_TA
        trl_id          - 102
        alt_ann         - 1-1022
        dur             - (as calculated in rc-oda rules)
        phrase01        [ recommended utterances:
           .                    defined by the customer ]
        phrase50


        appl            - FCOSPS_TA
        trl_id          - 103
        alt_ann         - 1-1022
        dur             - (as calculated in rc-oda rules)
        phrase01        [ recommended utterances:
           .                    defined by the customer ]
        phrase50


        appl            - FCOSPS_TA
        trl_id          - 104
        alt_ann         - 1-1022
        dur             - (as calculated in rc-oda rules)
        phrase01        [ recommended utterances:
           .                    defined by the customer ]
        phrase50


        ************************************************************************/
```

**Attribute:**
appl
**Fullname:**
Application
**Attribute Description:**
Announcement application

**Attribute:**
trl_id
**Fullname:**
trailer id
**Attribute Description:**
trailer ID

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**Attribute:**
alt_ann
**Fullname:**
alternate announcement
**Attribute Description:**
The alternate announcement assigned need not be contiguous.
The alt_ann value is a range of 1-1022.

**Attribute:**
dur
**Fullname:**
duration
**Attribute Description:**
Expected duration of digit string.
The value of dur is calculated by mapping code on an insert transaction. Its value is found by looping through the phrase entries until a 0 is encountered as follows:
- for each phrase entry which specifies a Phrase ID (1-16383, 16600-MAX

  PHRASEID) the value of 'dur' in the RLphrases entry corresponding to the Phrase ID and appl specified is added into the running total
- for the values 0, 16385, 16386, 16387, 16388, 16389, 16500-16599 the running total is unaffected

**Attribute:**
spare1
**Fullname:**
spare1
**Attribute Description:**
Field used for spare and for alignment of tuple.

**Attribute:**
phrase1
**Fullname:**
phrase or command
**Attribute Description:**
At least one non-zero entry must be specified.
The end of the phrases is denoted by a zero (0) entry which MUST be present in each tuple. No non-zero entries can exist after this entry.

These values are defined as follows:

| PHRASEX | DESCRIPTION |
|---|---|
| 0 | Defines logical end of Phrase list |
| 1-46 | Digit-string related Phrase IDs (see RLPHRASES Pop Rules) |

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| | |
|---|---|
| 47-16383, | Application Defined Phrase IDs |
| 16385 | Command - Insert a digit string here |
| 16386 | Command - Repeat the previous digit string here |
| 16387 | Command - date of last incoming call |
| 16388 | Command - time of last incoming call |
| 16389 | Command - number of dollars and cents |
| 16500-16599 | Application-Specific Commands These are defined by applications to have certain meanings. All of these are treated EXACTLY as is 16385. |
| 16600-MAXPHRASEID | Application Defined Phrase IDs |

NOTE: (MAXPHRASEID+1)-65535 are NOT used for vphrase IDs but for subsystem specific purposes.

**Attribute:**

phrase[*]

**Fullname:**

phrase or command

**Attribute Description:**

At least one non-zero entry must be specified. The end of the phrases is denoted by a zero (0) entry which MUST be present in each tuple. No non-zero entries can exist after this entry.

These values are defined as follows:

| PHRASEX | DESCRIPTION |
|---|---|
| 0 | Defines logical end of Phrase list |
| 1-46 | Digit-string related Phrase IDs (see RLPHRASES Pop Rules) |
| 47-16383, | Application Defined Phrase IDs |
| 16385 | Command - Insert a digit string here |
| 16386 | Command - Repeat the previous digit string here |
| 16387 | Command - date of last incoming call |
| 16388 | Command - time of last incoming call |
| 16389 | Command - number of dollars and cents |
| 16500-16599 | Application-Specific Commands These are defined by applications to have certain meanings. All of these are treated EXACTLY as is 16385. |
| 16600-MAXPHRASEID | Application Defined Phrase IDs |

NOTE: (MAXPHRASEID+1)-65535 are NOT used for phrase IDs but for subsystem specific purposes.

**Attribute:**

phrase50

**Fullname:**

phrase or command

**Attribute Description:**

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At least one non-zero entry must be specified.
The end of the phrases is denoted by a zero (0)
entry which MUST be present in each tuple. No
non-zero entries can exist after this entry.

These values are defined as follows:

| PHRASEX | DESCRIPTION |
|---|---|
| 0 | Defines logical end of Phrase list |
| 1-46 | Digit-string related Phrase IDs (see RLPHRASES Pop Rules) |
| 47-16383, | Application Defined Phrase IDs |
| 16385 | Command - Insert a digit string here |
| 16386 | Command - Repeat the previous digit string here |
| 16387 | Command - Date of last incoming call |
| 16388 | Command - Time of last incoming call |
| 16389 | Command - number of dollars and cents |
| 16500-16599 | Application-Specific Commands These are defined by applications to have certain meanings. All of these are treated EXACTLY as is 16385. |
| 16600-MAXPHRASEID | Application Defined Phrase IDs |

NOTE: (MAXPHRASEID+1)-65535 are NOT used for
phrase IDs but for subsystem specific purposes.

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# AMCALL

## 1. Description

This relation contains the billing call type information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| expected number of tuples | 62 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
AMCALL      relid = 133   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL


    amacalltype  DMAMACALL    (enum: 7)        <--- key, not stored
 (a) trcr_type   DMTRCRTYPE   (enum: 3)
 (b) data_type   DMDBDATATYPE (enum: 3)
 (c) detailed    DMBOOL       (enum: 1)
 (d) xmbi_wats   DMBOOL       (enum: 1)
 (e) special     DMBOOL       (enum: 1)
 (f) custid      DMBOOL       (enum: 1)
        User and Compacted Tuple Layout     AMCALL
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |                                               |
 0 | amacalltype |***********************************************|
   |---------------+---------------+---------------+---------------|
   |     |     | | | | |                                         |
 4 |  a  |  b  |c|d|e|f|*****************************************|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )


 (a) trcr_type   DMTRCRTYPE   (enum: 3)
 (b) data_type   DMDBDATATYPE (enum: 3)
 (c) detailed    DMBOOL       (enum: 1)
 (d) xmbi_wats   DMBOOL       (enum: 1)
 (e) special     DMBOOL       (enum: 1)
 (f) custid      DMBOOL       (enum: 1)
          Stored Tuple Layout   AMCALL
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |     |     | | | | |                                         |
 0 |  a  |  b  |c|d|e|f|*****************************************|
   |---------------+---------------+---------------+---------------|
      ( 2 bytes )
```

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## 4. Population rules for RLamcall

### Relation Description

Billing call type information

N/A

The maximum number of tuples should be equal to the number of enumeration values in the DMamcall domain.

**Attribute:**

amacalltype

**Fullname:**

Administrative module (AM) call type

**Attribute Description:**

Unless explicitly noted, detailed, xmbi_wats, trcr_type, data_type, and special fields listed with each 'amacalltype' are the default suggested values only. The TG-5 should be consulted when deviating from these values.

AMFGAOLATA - Automatic messages accounting (AMA) call code 131 for feature group A (FGA) originating local access and transport area (LATA) calls. Normal values are:

| | |
|---|---|
| detailed | - DBN0 |
| xmbi_wats | - DBNO |
| trcr_type | - AMINLATA |
| data_type | - AMLOCALDATA |
| special | - DBNO |
| custid | - DBNO |

Detailed, xmbi_wats, trcr_type, and data_type cannot be changed from the default values.

AMFGATLATA - AMA call code 132 for FGA terminating LATA calls.
Dependencies on other attributes are:

| | |
|---|---|
| detailed | - DBNO |
| xmbi_wats | - DBNO |
| trcr_type | - AMINLATA |
| data_type | - AMLOCALDATA |
| special | - DBNO |
| custid | - DBNO |

Detailed, xmbi_wats, trcr_type, and data_type cannot be changed from the default values.

AMFGDOLATA - AMA call code 110 for feature group D (FGD) originating LATA calls. Dependencies on other attributes are:

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```
                detailed        - DBNO
                xmbi_wats       - DBNO
                trcr_type       - AMINLATA
                data_type       - AMINTERLATA
                special         - DBNO
                custid          - DBNO

AMFGDTLATA      - AMA call code 119 for FGD terminating LATA calls.
                  Dependencies on other attributes are:

                detailed        - DBNO
                xmbi_wats       - DBNO
                trcr_type       - AMINLATA
                data_type       - AMINTERLATA
                special         - DBNO
                custid          - DBNO

AMFGDWATS       - AMA call code 114 for FGD outward wide area telephone
                  service (OUTWATS) originating LATA calls.  Dependencies
                  on other attributes are:

                detailed        - DBNO
                xmbi_wats       - DBYES
                trcr_type       - AMINLATA
                data_type       - AMINTERLATA
                special         - DBNO
                custid          - DBNO

AMFGBOLATA      - AMA call code 134 for feature group B (FGB)
                  originating LATA calls.  Dependencies on
                  other attributes are:

                detailed        - DBNO
                xmbi_wats       - DBNO
                trcr_type       - AMINLATA
                data_type       - AMLOCALDATA
                special         - DBNO
                custid          - DBNO

AMFGBTLATA      - AMA call code 135 for FGB terminating LATA
                  calls. Dependencies on other attributes are:

                detailed        - DBNO
                xmbi_wats       - DBNO
                trcr_type       - AMINLATA
                data_type       - AMLOCALDATA
                special         - DBNO
                custid          - DBNO

AMSBWATS        - AMA call code 7 for wide area telephone
                  service (WATS), station billing number.
                  Normal attribute values are:
```

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```
                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMSPECIAL
                data_type       - AMTOLLDATA
                special         - DBNO
                custid          - DBNO

AMFX            - AMA call code 11 for foreign exchange (FX).
                Normal attribute values are:

                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMOTHER
                data_type       - AMOTHER
                special         - DBNO
                custid          - DBNO

AMTANTTRK       - AMA call code 32 for tandem tie trunk (TTT).
                Normal attribute values are:

                detailed        - DBNO
                xmbi_wats       - DBNO
                trcr_type       - AMOTHER
                data_type       - AMOTHER
                special         - DBNO
                custid          - DBNO

AMCFPFNOANS     - AMA call code 32 for TTT.  (Same as AMTANTTRK
                except call processing does not generate
                simulated answer.) Normal attribute values
                are:

                detailed        - DBNO
                xmbi_wats       - DBNO
                trcr_type       - AMOTHER
                data_type       - AMOTHER
                special         - DBNO
                custid          - DBNO

AMSBILWATS      - AMA call code 111 for WATS, station billing
                inter-LATA.
                Normal attribute values are:

                detailed        - DBYES
                xmbi_wats       - DBYES
                trcr_type       - AMINTERLATA
                data_type       - AMINTERLATA
                special         - DBNO
                custid          - DBNO

AMATTSTPD       - AMA call code 060 for station paid call.
                Normal attribute values are:

                detailed        - DBYES
```

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```
                xmbi_wats       - DBNO
                trcr_type       - AMTOLL
                data_type       - AMTOLLDATA
                special         - DBNO
                custid          - DBNO

AMATTCMC        - AMA call code 306 for cellular mobile carrier
                  (CMC).
                  Normal attribute values are:

                  detailed      - DBYES
                  xmbi_wats     - DBNO
                  trcr_type     - AMSPECIAL
                  data_type     - AMTOLLDATA
                  special       - DBNO
                  custid        - DBNO

AMACCT          - AMA call code 124 for account code dialed calls not
                  normally recorded.  Normal attribute values are:

                  detailed      - DBNO
                  xmbi_wats     - DBNO not normally recorded call.
                  trcr_type     - AMOTHER
                  data_type     - AMOTHER
                  special       - DBNO
                  custid        - DBNO

AMACCTCTX       - AMA call code 83 for account code dialed calls
                  extended by an attendant to a centralized telephone
                  communications exchange service (CENTREX) station not
                  normally recorded.  Normal attribute values are:

                  detailed      - DBNO
                  xmbi_wats     - DBNO not normally recorded call.
                  trcr_type     - AMOTHER
                  data_type     - AMOTHER
                  special       - DBNO
                  custid        - DBNO

AMACCTTIE       - AMA call code 84 for account code dialed calls
                  extended by an attendant to a CENTREX station not
                  normally recorded.  Normal attribute values are:

                  detailed      - DBNO
                  xmbi_wats     - DBNO not normally recorded call.
                  trcr_type     - AMOTHER
                  data_type     - AMOTHER
                  special       - DBNO
                  custid        - DBNO

AMCCSASAMP      - AMA call code 21 for common channel signaling
                  availability (CCSA) sampling.  Normal attribute
                  values are:
```

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```
                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMOTHER
                data_type       - AMOTHER
                special         - DBNO
                custid          - DBNO

AMETSMDR      - AMA call code 85 for electronic tandem switching
                (ETS)-message detail recording (MDR) revenue
                accounting office (RAO).  Normal attribute values
                are:

                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMOTHER
                data_type       - AMOTHER
                special         - DBNO
                custid          - DBNO

AMETSCCSA     - AMA call code 99 for ETS-MDR and CCSA route.
                Normal attribute values are:

                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMOTHER
                data_type       - AMOTHER
                special         - DBNO
                custid          - DBNO

AMISDNDATA    - AMA call code 72 for integrated services digital
                network (ISDN) data intra-LATA (uses CSDC call
                type 72).
                Normal attribute values are:

                detailed        - DBNO
                xmbi_wats       - DBNO
                trcr_type       - AMSPECIAL
                data_type       - AMLOCDATA
                special         - DBNO
                custid          - DBNO

AMISDNOLATA   - AMA call code 117 for ISDN originating inter-LATA
                (uses CSDC call type 117).  Normal attribute values
                are:

                detailed        - DBNO
                xmbi_wats       - DBNO
                trcr_type       - AMINLATA
                data_type       - AMINTERLATA
                special         - DBNO
                custid          - DBNO

AMISDNTLATA   - AMA call code 121 for ISDN terminating inter-LATA
                (uses CSDC call type 121).  Normal attribute values
```

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are:

detailed - DBNO
xmbi_wats - DBNO
trcr_type - AMINLATA
data_type - AMINTERLATA
special - DBNO
custid - DBNO

AMSPOHOSPS - AMA call code 010 for station paid, operator handled toll and assistance (T&A) Operator Services Position System (OSPS) calls. Normal attribute values are:

detailed - DBNO
xmbi_wats - DBNO
trcr_type - AMOPER
data_type - AMOPRASSIST
special - DBNO
custid - DBNO

AMSCOLOSPS - AMA call code 014 for station collect T&A OSPS calls. Normal attribute values are:

detailed - DBNO
xmbi_wats - DBNO
trcr_type - AMOPER
data_type - AMOPRASSIST
special - DBNO
custid - DBNO

AMSSCGOSPS - AMA call code 015 for station special calling T&A OSPS calls. Normal attribute values are:

detailed - DBNO
xmbi_wats - DBNO
trcr_type - AMOPER
data_type - AMOPRASSIST
special - DBNO
custid - DBNO

AMPEPDOSPS - AMA call code 016 for person paid T&A OSPS calls.

detailed - DBNO
xmbi_wats - DBNO
trcr_type - AMOPER
data_type - AMOPRASSIST
special - DBNO
custid - DBNO

AMPECOOSPS - AMA call code 017 for person collect T&A OSPS calls.

detailed - DBNO
xmbi_wats - DBNO

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```
                trcr_type       - AMOPER
                data_type       - AMOPRASSIST
                special         - DBNO
                custid          - DBNO

AMPSCGOSPS    - AMA call code 018 for person special calling T&A
                OSPS calls.

                detailed        - DBNO
                xmbi_wats       - DBNO
                trcr_type       - AMOPER
                data_type       - AMOPRASSIST
                special         - DBNO
                custid          - DBNO

AMAUTOOSPS    - AMA call code 019 for automatic collect T&A OSPS
                calls.

                detailed        - DBNO
                xmbi_wats       - DBNO
                trcr_type       - AMOPER
                data_type       - AMOPRASSIST
                special         - DBNO
                custid          - DBNO

AMSSCDOSPS    - AMA call code 022 for station special called
                T&A OSPS calls.

                detailed        - DBNO
                xmbi_wats       - DBNO
                trcr_type       - AMOPER
                data_type       - AMOPRASSIST
                special         - DBNO
                custid          - DBNO

AMPSCDOSPS    - AMA call code 023 for person special called T&A
                OSPS calls.

                detailed        - DBNO
                xmbi_wats       - DBNO
                trcr_type       - AMOPER
                data_type       - AMOPRASSIST
                special         - DBNO
                custid          - DBNO

AMDDDOOSPS    - AMA call code 024 for direct distance dialing (DDD),
                operator-assisted T&A OSPS calls.

                detailed        - DBNO
                xmbi_wats       - DBNO
                trcr_type       - AMTOLL
                data_type       - AMTOLLDATA
                special         - DBNO
                custid          - DBNO
```

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```
AMNONROSPS    - AMA call code 035 for non revenue T&A OSPS calls.

                detailed        - DBNO
                xmbi_wats       - DBNO
                trcr_type       - AMOTHER
                data_type       - AMOTHDATA
                special         - DBNO
                custid          - DBNO

AMTCNTOSPS    - AMA call code 056 for the OSPS traffic counts AMA
                record.

                detailed        - DBNO
                xmbi_wats       - DBNO
                trcr_type       - AMOPER
                data_type       - AMOPRASSIST
                special         - DBNO
                custid          - DBNO

AMCREDOSPS    - AMA call code BCR.107 for the subscriber credit
                entry AMA record.

                detailed        - DBNO
                xmbi_wats       - DBNO
                trcr_type       - AMOTHER
                data_type       - AMOTHDATA
                special         - DBNO
                custid          - DBNO

AMSSVCOSPS    - AMA call code BCR.108 for special service T&A OSPS
                calls.

                detailed        - DBNO
                xmbi_wats       - DBNO
                trcr_type       - AMSPECIAL
                data_type       - AMOTHDATA
                special         - DBNO
                custid          - DBNO

AMNSFAM         - Special AMA call code for number services type
                calls.  Indicates that the call code returned from
                the service control point (SCP) database should be
                used to bill this call.  The call code should be
                stored in he call record for network services (NS)
                calls.  Normal attribute values are:

                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMOTHER
                data_type       - AMOTHDATA
                special         - DBNO
                custid          - DBNO
```

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```
AMSTCNZNOSPS  - AMA call code 025 for station coin zone T&A OSPS
                calls.

                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMOPER
                data_type       - AMOPRASSIST
                special         - DBNO
                custid          - DBNO

AMPERCNZNOSPS - AMA call code 029 for person coin zone T&A OSPS
                calls.

                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMOPER
                data_type       - AMOPRASSIST
                special         - DBNO
                custid          - DBNO

AMBLVOSPS     - AMA call code 043 for busy line verify (BLV) T&A OSPS
                calls.

                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMOPER
                data_type       - AMOPRASSIST
                special         - DBNO
                custid          - DBNO

AMEIOSPS      - AMA call code 044 for emergency interrupt T&A OSPS
                calls.

                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMOPER
                data_type       - AMOPRASSIST
                special         - DBNO
                custid          - DBNO

AMBLVSPOSPS - AMA call code 054 for BLV, special calling T&A OSPS calls.

                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMOPER
                data_type       - AMOPRASSIST
                special         - DBNO
                custid          - DBNO

AMEISPOSPS    - AMA call code 055 for emergency interrupt (EI),
                special calling T&A OSPS calls.

                detailed        - DBYES
                xmbi_wats       - DBNO
```

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```
                trcr_type       - AMOPER
                data_type       - AMOPRASSIST
                special         - DBNO
                custid          - DBNO
AMBLVNREVOSPS - AMA call code 057 for BLV, non revenue T&A OSPS calls.

                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMOTHER
                data_type       - AMOPRASSIST
                special         - DBNO
                custid          - DBNO

AMEINREVOSPS  - AMA call code 058 for EI, non revenue T&A OSPS calls.

                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMOTHER
                data_type       - AMOPRASSIST
                special         - DBNO
                custid          - DBNO

AMAPSVC       - AMA call code 080 for packet switching virtual call.
                No tuple should be populated for this call type.

AMAPSIVC      - AMA call code 378 for packet switching intra group
                virtual call.  No tuple should be populated for this
                call type.

AMOSOINWATS   - AMA call code 360 for originating screening office
                (OSO) inward WATS (INWATS) call types.

                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMTOLL
                data_type       - AMTOLLDATA
                special         - DBNO
                custid          - DBNO

AMSPAWATS     - AMA call code 318 for special access WATS call types.

                detailed        - DBYES
                xmbi_wats       - DBYES
                trcr_type       - AMTOLL
                data_type       - AMTOLLDATA
                special         - DBNO
                custid          - DBNO

AMSPAMEG      - AMA call code 309 for MEGACOM(R) (Special access) call
                types.

                detailed        - DBYES
                xmbi_wats       - DBYES
                trcr_type       - AMTOLL
```

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```
                data_type       - AMTOLLDATA
                special         - DBNO
                custid          - DBNO

AMSDNCALL     - AMA call code 129 for Software Defined Network
                call types.

                detailed        - DBYES
                xmbi_wats       - DBYES
                trcr_type       - AMTOLL
                data_type       - AMTOLLDATA
                special         - DBNO
                custid          - DBNO

AMDIDSTDY     - AMA call code 381 for direct inward dialing (DID)
                fraud study records.  Normal attribute values are:

                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMOTHER
                data_type       - AMOTHDATA
                special         - DBNO
                custid          - DBNO

AMOAICVPN     - AMA call code 263 for originating access to
                inter-LATA carrier virtual private network (VPN)
                calls.

                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMTOLL
                data_type       - AMTOLLDATA
                special         - DBNO
                custid          - DBNO

AMDA411       - Directory assistance when 411 is dialed.
                detailed        - DBNO
                xmbi_wats       - DBNO
                trcr_type       - AMOPER
                data_type       - AMOPRASSIST
                special         - DBNO
                custid          - DBNO

AMDA555         - Directory assistance when 555 is dialed.
                detailed        - DBNO
                xmbi_wats       - DBNO
                trcr_type       - AMOPER
                data_type       - AMOPRASSIST
                special         - DBNO
                custid          - DBNO

AMCMCBOT      - AMA call code 63 for CMC originating calls
                for Type 2B access.
```

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```
                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMOTHER
                data_type       - AMOTHDATA
                special         - DBNO
                custid          - DBNO

AMCMCOT       - AMA call code 64 for CMC originating calls
                for Type 2A access.

                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMOTHER
                data_type       - AMOTHDATA
                special         - DBNO
                custid          - DBNO

AMCMCBTT      - AMA call code 65 for CMC terminating calls
                for Type 2B access.

                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMOTHER
                data_type       - AMOTHDATA
                special         - DBNO
                custid          - DBNO

AMCMCTT       - AMA call code 66 for CMC terminating calls
                for Type 2A access.

                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMOTHER
                data_type       - AMOTHDATA
                special         - DBNO
                custid          - DBNO

AMUTT         - AMA call code 550 for Utility Telemetry calls.

                xmbi_wats       - DBNO
                trcr_type       - AMOTHER
                data_type       - AMOTHERDATA
                custid          - DBNO

AMCNA         - AMA call code 720 for Connecting Network Access

                detailed        - DBYES
                xmbi_wats       - DBNO
                trcr_type       - AMTOLL
                data_type       - AMTOLLDATA
                special         - DBNO
                custid          - DBNO

AMLNPDFR      - AMA call code 721 for Local Number Portability
```

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```
                    trcr_type       - AMLOCAL
                    data_type       - AMLOCDATA
                    detailed        - DBYES
                    xmbi_wats       - DBNO
                    special         - DBNO
                    custid          - DBNO

        AMUNBRESORIG  - AMA call code 126 for Unbundled or Resold Origination

                    detailed        - DBYES
                    xmbi_wats       - DBNO
                    trcr_type       - AMLOCAL
                    data_type       - AMLOCDATA
                    special         - DBNO
                    custid          - DBNO

        AMUNBRESTERM  - AMA call code 128 for Unbundled or Resold Termination

                    detailed        - DBYES
                    xmbi_wats       - DBNO
                    trcr_type       - AMLOCAL
                    data_type       - AMLOCDATA
                    special         - DBNO
                    custid          - DBNO
```

**Attribute:**
detailed
**Fullname:**
Flag to send called member
**Attribute Description:**
Indicates whether terminating directory number (DN) is included in AMA record for this type of call (also see amacalltype).

**Attribute:**
xmbi_wats
**Fullname:**
Flag to send mbi_wats hand
**Attribute Description:**
Indicates whether this is a message billing index (MBI) or WATS call type (also see amacalltype).

**Attribute:**
trcr_type
**Fullname:**
Type of answer entry for tracer count
**Attribute Description:**
Grouping of counts for tracer records. Determines the appropriate count that a call should peg in the call assembly tracer record.

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Valid values are:

```
AMLOCAL       - Local call, pegs records output local
                answered or not recorded local answered.
AMTOLL        - Toll call, pegs records output toll
                answered or not recorded toll answered.
AMSPECIAL     - Special services, pegs records output
                special answered or not recorded special.
AMOTHER       - Not toll or local, pegs records output other
                answered or not recorded other answered.
AMINLATA      - Inter-LATA call, pegs records output
                inter-LATA for answered and unanswered
                calls or not recorded inter-LATA for
                answered and unanswered inter-LATA calls.
```

**Attribute:**
data_type
**Fullname:**
Type of data associated with call type
**Attribute Description:**
Indicates the type of call for network completion study purposes. This forces the trunk network number (TNN) to be included in the AMA record produced for the particular data_type under study. These studies are controlled by the global supervision options, Gllocsupv, Gltolsupv, and Glicsupv, and used with the data_types of AMLOCDATA, AMTOLLDATA, and AMINTERLATA respectively.

Valid values are:

```
AMLOCDATA       - Local data.
AMTOLLDATA      - Toll data.
AMOTHDATA       - Other data (not local or toll).
AMINTERLATA     - Inter-LATA data.
```

**Attribute:**
special
**Fullname:**
Special set of calls
**Attribute Description:**
Indicates whether this call type is part of a special set of calls forshort term study. Forces a record to be produced on an abandon for those AMA call types with special set to DBYES when the GLspecabn global option is turned on. The service providers have the capability of defining its own set based on AMA calltype.

```
DBYES   - Included in special study.
DBNO    - Not included in special study.
```

**Attribute:**
custid

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**Fullname:**

Customer identification

**Attribute Description:**

DBYES - Customer identification is required for this call type, except in the case where the call type is:

1 - Detailed message rate, timed, with MBI.
6 - Station paid.
110 - Inter-LATA station paid.
134 - FGB originating.

In this case, the customer identification will be included in the AMA record if there is a terminal group number associated with the originator (the terminal group number is the 'custid'). Otherwise, no 'custid' will be recorded.

DBNO - Customer identification will not be included in the AMA record for this call type.

The only call types that may have 'custid' set to DBYES or DBNO are:

1 - AMDTLTMBI.
6 - AMSTPAID.
7 - AMSBWATS
11 - AMFX.
21 - AMCCSASAMP.
32 - AMTANTTRK or AMCFPFNOANS.
68 - AMBNWATS.
72 - AMISDNDATA.
85 - AMETSMDR.
99 - AMETSCCSA.
110 - AMFGDOLATA.
111 - AMSBILWATS.
117 - AMISDNOLATA.
124 - AMBACCT.
134 - AMFGBOLATA.
144 - AMFGDWATS.

All other call types must have 'custid' set to DBNO.

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# AMCC_FAM

## 1. Description

Call code to structure code family: saved in the call record from the TCAP message.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
AMCC_FAM    relid = 893   DBSTATIC   DBACC_LIN   DBPRAM    FR      NULL


    call_code   DMC_CODE     (ushort: 10) <--- key
 (a) sc_family   DMSCFAM      (enum: 3)

         User and Compacted Tuple Layout   AMCC_FAM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                     |     |                                     |
 0 |     call_code       |  a  |*************************************|
   |---------------+---------------+---------------+---------------|
      ( 4 bytes )


    call_code   DMC_CODE     (ushort: 10) <--- key
 (a) sc_family   DMSCFAM      (enum: 3)

           Stored Tuple Layout     AMCC_FAM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                     |     |                                     |
 0 |     call_code       |  a  |*************************************|
   |---------------+---------------+---------------+---------------|
      ( 2 bytes )
```

## 4. Population rules for RLamcc_fam

### Relation Description

Call code to structure code family

Call Code to structure code family: saved in call record from the Transaction Capability Application Part (TCAP) message sent from a remote database.

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"This relation must be populated for Service Switching Point (SSP) offices (when Glssp=DBYES) or for Software Defined Networks at an Action Point (ACP) (when Glapsdn=DBYES. An office can be either an SSP office or an ACP office but never both concurrently. This check resides in the CCS Office Parameters View."

**Attribute: call_code**

**Fullname:** call code

**Attribute Description:** Call code is an integer representation of the digits received in the TCAP response message for a number services call.

**Attribute: sc_family**

**Fullname:** structure code family

**Attribute Description:**

```
AMIC_SC - Interexchange Carrier structure code
          family to be used if the call code returned
          from the SCP is to be billed for IC.  This
          structure code family is only valid for SSP
          offices when Glssp=DBYES.
AMTELCO_SC - Local Telephone Company structure code
          family to be used if the call code returned
          from the SCP is to be billed for the Local
          Service Provider.  This structure code family
          is only valid for SSP offices when Glssp=DBYES.
AMAPSDN - Software Defined Network (SDN) structure code
          family to be used if the call code returned from
          the database is to be billed as an SDN call at
          an Action Point (ACP).  This structure code
          family is only valid for SDN ACP offices when
          Glapsdn=DBYES.
AMPVNEBAF - Private Virtual Network Extended Bellcore
          Automatic Message Accounting Format structure
          code family to be used.  This structure code
          family is only valid for PVNSSP offices.
          Glpvn_ofc must_be DBPVN_SSP.
AMLNACP - Leased Network (LN) structure code family to be
          used if the call code returned from the database
          is to be billed as a LN call at an Action Point (ACP).
          This structure code family is only valid for LN ACP
          offices when Glacpln=DBYES.
```

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# AMCMCID

## 1. Description

This relation contains the 10 digit billing number for a cellular mobile carrier.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 60 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head page size | 512 |
| data page size | 512 |
| page level | 1 |
| ks key store | DBNO |
| l1 length of subkey1 | 6 |
| p1 position of subkey1 | 10 |
| ignore key bits | 0-9 |

## 3. Field Layout

```
AMCMCID     relid = 596   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL


    cmc_id      DMSHORT      (short) <--- key, not stored
    cmc_ani     DMDN         (struct) <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
           User Tuple Layout   AMCMCID
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             cmc_id            |*******************************|
   |===============+=========== cmc_ani ===========+===============|
   |       |       |                                               |
 4 | digcnt|*******|                      dn                       |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 8 |                               dn                              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
12 |                               dn                              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
16 |                               dn                              |
   |===============+===============+===============+===============|
      ( 20 bytes )


    cmc_id      DMSHORT      (short) <--- key, not stored
    cmc_ani     DMCDN        (struct) <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
```

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```
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
         Compacted Tuple Layout    AMCMCID
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |              cmc_id           |*******************************|
   |===============+=========== cmc_ani ===========+===============|
   |       |       |       |       |       |       |       |       |
 4 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 8 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
   |===============+===============+===============+===============|
   |                                                               |
12 |***************************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
16 |***************************************************************|
   |---------------+---------------+---------------+---------------|
     ( 20 bytes )


    cmc_ani     DMCDN        (struct) <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
          Stored Tuple Layout      AMCMCID
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
```

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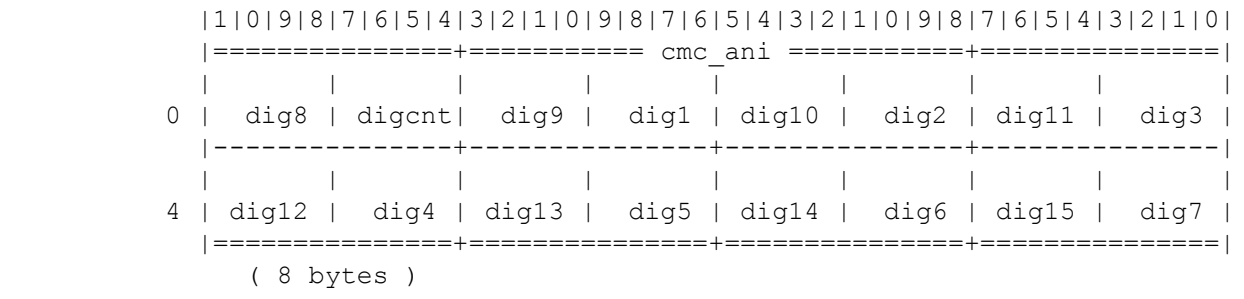


## 4. Population rules for RLamcmcid

**Relation Description**

AM Cellular Mobile Carrier ID number.

10 digit billing number for a Cellular Mobile Carrier.

**Attribute:**
cmc_id
**Fullname:**
Cellular Mobile Carrier id number.
**Attribute Description:**
Every cmcid found in amtkgp relation must be defined in this relation.

**Attribute:**
cmc_ani
**Fullname:**
Cellular Mobile Carrier Auto Number ID.
**Attribute Description:**
String of 10 ASCII digits (each digit in the range 0-9). This 10 digit number is used for billing the Cellular Mobile Carrier.

**Attribute:**
cmc_ani.digcnt
**Fullname:**
Digit Count.
**Attribute Description:**
Digit Count.

**Attribute:**
cmc_ani.dn
**Fullname:**
Directory Number.
**Attribute Description:**
Directory Number.

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# AMFCA_ST

## 1. Description

Flexible call accounting stream data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 15 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| trigger function | AMfcatrigger |
| insert trigger | DBNO |
| update trigger | DBYES |
| delete trigger | DBNO |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
AMFCA_ST    relid = 2773  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL

     sidx        DMUNS4       (ushort: 4)     <--- key
     altst       DMUNS4       (ushort: 4)
     server      DMOSPID      (struct)
         procno      DMSHORT      (short)
         pcrid       DMUCHAR      (uchar)
         uniq        DMUCHAR      (uchar)
     timer       DMUNLONG     (ulong)
     ofi         DMAMSDOPT    (struct)
 (a)     opt0        DMBOOL       (enum: 1)
 (b)     opt1        DMBOOL       (enum: 1)
 (c)     opt2        DMBOOL       (enum: 1)
 (d)     opt3        DMBOOL       (enum: 1)
 (e)     opt4        DMBOOL       (enum: 1)
 (f)     opt5        DMBOOL       (enum: 1)
 (g)     opt6        DMBOOL       (enum: 1)
 (h)     opt7        DMBOOL       (enum: 1)
 (i)     opt8        DMBOOL       (enum: 1)
 (j)     opt9        DMBOOL       (enum: 1)
 (k)     opt10       DMBOOL       (enum: 1)
 (l)     opt11       DMBOOL       (enum: 1)
 (m)     opt12       DMBOOL       (enum: 1)
 (n)     opt13       DMBOOL       (enum: 1)
 (o)     opt14       DMBOOL       (enum: 1)
 (p)     opt15       DMBOOL       (enum: 1)
 (q)     opt16       DMBOOL       (enum: 1)
 (r)     opt17       DMBOOL       (enum: 1)
 (s)     opt18       DMBOOL       (enum: 1)
 (t)     opt19       DMBOOL       (enum: 1)
 (u)     opt20       DMBOOL       (enum: 1)
 (v)     opt21       DMBOOL       (enum: 1)
 (w)     opt22       DMBOOL       (enum: 1)
 (x)     opt23       DMBOOL       (enum: 1)
 (y)     opt24       DMBOOL       (enum: 1)
```

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```
(z)     opt25       DMBOOL       (enum: 1)
(A)     opt26       DMBOOL       (enum: 1)
(B)     opt27       DMBOOL       (enum: 1)
(C)     opt28       DMBOOL       (enum: 1)
(D)     opt29       DMBOOL       (enum: 1)
(E)     opt30       DMBOOL       (enum: 1)
(F)     opt31       DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   AMFCA_ST
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |       |       |                                               |
 0 |  sidx | altst |***********************************************|
   |===============+===========  server ===========+===============|
   |                                 |               |               |
 4 |             procno              |     pcrid     |      uniq     |
   |===============+===============+===============+===============|
   |                                                                 |
 8 |                              timer                              |
   |===============+============= ofi =============+===============|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
12 |a|b|c|d|e|f|g|h|i|j|k|l|m|n|o|p|q|r|s|t|u|v|w|x|y|z|A|B|C|D|E|F|
   |===============+===============+===============+===============|
      ( 16 bytes )
```

## 4. Population Rules for RLamfca_st

**Relation Description**

Flexible call accounting stream manager.

Flexible call accounting stream manager. This is being added by feature 99-5E-3784 Real Time Call Details.

**Attribute: sidx**

**Fullname:** Stream index

**Attribute Description:** This is the integer number associated with the stream.

**Attribute: server**

**Fullname:** Server

**Attribute Description:** OSDS identifier for the process that receives the MGCARECS message from the SM.

**Attribute: server.procno**

**Fullname:** Process number

**Attribute Description:** OSDS process number for AMSD process.

**Attribute: server.pcrid**

**Fullname:** Processor number

**Attribute Description:** OSDS processor id for AMSD process.

**Attribute: server.uniq**

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**Fullname:** Uniqueness

**Attribute Description:** OSDS uniqueness id for AMSD process.

**Attribute: timer**

**Fullname:** Timer

**Attribute Description:** SM flushing message buffer timer, incremented in 4 second intervals.

**Attribute: ofi**

**Fullname:** Optional feature indicator

**Attribute Description:** 32 DMBOOL flags used to indicate the presence or absence of optional features for AMSD.

**Attribute: ofi.opt0**

**Fullname:** Option 0

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt1**

**Fullname:** Option 1

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt2**

**Fullname:** Option 2

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt3**

**Fullname:** Option 3

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt4**

**Fullname:** Option 4

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt5**

**Fullname:** Option 5

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt6**

**Fullname:** Option 6

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt7**

**Fullname:** Option 7

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt8**

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**Fullname:** Option 8

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt9**
**Fullname:** Option 9

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt10**
**Fullname:** Option 10

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt11**
**Fullname:** Option 11

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt12**
**Fullname:** Option 12

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt13**
**Fullname:** Option 13

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt14**
**Fullname:** Option 14

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt15**
**Fullname:** Option 15

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt16**
**Fullname:** Option 16

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt17**
**Fullname:** Option 17

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt18**
**Fullname:** Option 18

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt19**
**Fullname:** Option 19

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**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt20**
**Fullname:** Option 20

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt21**
**Fullname:** Option 21

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt22**
**Fullname:** Option 22

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt23**
**Fullname:** Option 23

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt24**
**Fullname:** Option 24

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt25**
**Fullname:** Option 25

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt26**
**Fullname:** Option 26

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt27**
**Fullname:** Option 27

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt28**
**Fullname:** Option 28

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt29**
**Fullname:** Option 29

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: ofi.opt30**
**Fullname:** Option 30

**Attribute Description:** Spare option to be used for future field feature use.

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**Attribute: ofi.opt31**

**Fullname:** Option 31

**Attribute Description:** Spare option to be used for future field feature use.

**Attribute: altst**

**Fullname:** Alternate stream indicator

**Attribute Description:** Alternate stream used when this stream is inactive.

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# AMGPD_R

## 1. Description

Root storage relation for DB_AMGPD.

The purpose of this relation is to identify which processors a group resides on. The keys and pointers to RLpcr1_g/RLpcr2_g are stored in this relation. RLpcr1_g/RLpcr2_g contain the processor bit maps.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTORAGE |
| head page size | 512 |
| data page size | 256 |
| permutation type | perm |

## 3. Field Layout

```
AMGPD_R     relid = 1671  DBSTORAGE  DBACC_HASH  DBPRAM    LP      RCMAP

     grp_id      DMMCC_FID    (ushort)     <--- key
     pcrlist1    DMGK14       (ulong: 14)
     pcrlist2    DMGK14       (ulong: 14)
     grp_type    DMGPD_GPS    (enum: 6)     <--- key
     pcr_map1    DMGPDMAP     (long)
         User, Compacted and Stored Tuple Layout    AMGPD_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                             |   |
  0 |              grp_id           |           pcrlist1          |***|
    |---------------+---------------+---------------+---------------|
    |                             |   |             |               |
  4 |           pcrlist2          |***|  grp_type   |***************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                            pcr_map1                           |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLamgpd_r

There are no population rules for this relation.

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# AMPCI7GR

## 1. Description

Relation for creating CCS maintenance group messages. This relation is used to determine which circuit identifier codes (CICs) are populated in a given offset of 24 CICs. This relations is used to create CCS7 group messages for CCS trunks.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 580608 |
| expected number of tuples | 240 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | CCS |
| relation type | DBSTATIC |
| trigger function | TMampci7gr |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBYES |

## 3. Field Layout

```
AMPCI7GR    relid = 2115  DBSTATIC   DBACC_HASH  DBPRAM    LP      CCS

     cic_map     DMBMAP       (ulong: 24)
     pci         DMPCIDX      (uchar: 8)     <--- key
     cic_offset  DMCKT_CODE   (ushort: 14)     <--- key
     module      DMMODULE     (ushort: 8)     <--- key
         User, Compacted and Stored Tuple Layout   AMPCI7GR
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                    cic_map                    |      pci      |
    |---------------+---------------+---------------+---------------|
    |                           |   |               |               |
  4 |         cic_offset        |***|     module    |***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLampci7gr

**Relation Description:** Relation for creating CCS group messages.

This relation is read to determine which circuit identifier codes (CICs) are populated in a given range of 24 CICs. This relation is used to create group blocking messages for CCS trunks, when an SM is initialized or isolated from the network.

***NOTE:*** The reason for two different relations, ampci7gr and pci7gr, is due to the large difference in maximum number of tuples between the AM and SM module. The module identifies which SM the PCI and CIC offset are populated on.

```
pci          Point code index.  This identifies the index which
```

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```
             translate to an origination point code and a
             destination point code pair.
cic_offset   Circuit code (cic) offset.  This identifies the
             starting CIC of 24 CICs indicated in the cic_map.
             This will always be a multiple of 24 starting at 0.
cic_map      This bitmap represents which circuit codes (CIC) for a
             give PCI are populated on this SM. A bit of 1 indicates
             that the CIC (cic_offset + bit number) is populated on
             this SM and is not CADN.  Bit 0 is the left most bit and
             23 is the right most bit.

             00000000001111111112222
             01234567890123456789012
             -----------------------
             ABCDEFGHIJKLMNOPQRSTUVWX

             Assuming cic_offset is 72
             A represents cic 72
             B represents cic 73
                     .
                     .
                     .
             X represents cic 95
```

**Attribute: module**

**Fullname:** module number

**Attribute Description:** This attribute identifies which SM this pci and cic_offset is populated for.

**Attribute: pci**

**Fullname:** Point code index

**Attribute Description:** This identifies the index which translate to an origination point code and a destination point code pair.

**Attribute: cic_offset**

**Fullname:** Starting CIC

**Attribute Description:** Circuit code (cic) offset. This identifies the starting CIC of 24 CICs indicated in the cic_map. This will always be a multiple of 24 starting at 0 (0, 24, 48, 72, 96, and so forth).

**Attribute: cic_map**

**Fullname:** CIC bitmap

**Attribute Description:** This bitmap represents which circuit codes (CIC) for a give PCI are populated on this SM. A bit of 1 indicates that the CIC (cic_offset + bit number) is populated on this SM and is not CADN. Bit 0 is the left most bit and 23 is the right most bit.

```
00000000001111111112222
01234567890123456789012
-----------------------
ABCDEFGHIJKLMNOPQRSTUVWX

Assuming cic_offset is 72
A represents cic 72
```

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```
B represents cic 73
        .
        .
        .
X represents cic 95
```

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# AMSD_STR

## 1. Description

This relation contains the stream data manager stream protocol.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 15 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFR |
| relation type | DBSTATIC |
| trigger function | AMsdtrigger |
| insert trigger | DBNO |
| update trigger | DBYES |
| delete trigger | DBNO |
| end of transaction trigger | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
AMSD_STR    relid = 2772  DBSTATIC   DBACC_CIND  DBPRAM    LRFR    NULL

     tcb0        DMAMSDTCB    (struct)
         time        DMUNLONG     (ulong)
         tid         DMOSSYSTAG   (short)
         opt         DMUSHORT     (ushort)
         offset      DMUNLONG     (ulong)
     tcb1        DMAMSDTCB    (struct)
         time        DMUNLONG     (ulong)
         tid         DMOSSYSTAG   (short)
         opt         DMUSHORT     (ushort)
         offset      DMUNLONG     (ulong)
     tcb2        DMAMSDTCB    (struct)
         time        DMUNLONG     (ulong)
         tid         DMOSSYSTAG   (short)
         opt         DMUSHORT     (ushort)
         offset      DMUNLONG     (ulong)
     tcb3        DMAMSDTCB    (struct)
         time        DMUNLONG     (ulong)
         tid         DMOSSYSTAG   (short)
         opt         DMUSHORT     (ushort)
         offset      DMUNLONG     (ulong)
     tcb4        DMAMSDTCB    (struct)
         time        DMUNLONG     (ulong)
         tid         DMOSSYSTAG   (short)
         opt         DMUSHORT     (ushort)
         offset      DMUNLONG     (ulong)
     ctb0        DMAMSDCTB    (struct)
         cnt         DMUNLONG     (ulong)
         thresh      DMUSHORT     (ushort)
         opt         DMUSHORT     (ushort)
     ctb1        DMAMSDCTB    (struct)
         cnt         DMUNLONG     (ulong)
         thresh      DMUSHORT     (ushort)
```

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```
        opt         DMUSHORT     (ushort)
    ctb2        DMAMSDCTB    (struct)
        cnt         DMUNLONG     (ulong)
        thresh      DMUSHORT     (ushort)
        opt         DMUSHORT     (ushort)
    ctb3        DMAMSDCTB    (struct)
        cnt         DMUNLONG     (ulong)
        thresh      DMUSHORT     (ushort)
        opt         DMUSHORT     (ushort)
    ctb4        DMAMSDCTB    (struct)
        cnt         DMUNLONG     (ulong)
        thresh      DMUSHORT     (ushort)
        opt         DMUSHORT     (ushort)
    ctb5        DMAMSDCTB    (struct)
        cnt         DMUNLONG     (ulong)
        thresh      DMUSHORT     (ushort)
        opt         DMUSHORT     (ushort)
    ctb6        DMAMSDCTB    (struct)
        cnt         DMUNLONG     (ulong)
        thresh      DMUSHORT     (ushort)
        opt         DMUSHORT     (ushort)
    ctb7        DMAMSDCTB    (struct)
        cnt         DMUNLONG     (ulong)
        thresh      DMUSHORT     (ushort)
        opt         DMUSHORT     (ushort)
    ctb8        DMAMSDCTB    (struct)
        cnt         DMUNLONG     (ulong)
        thresh      DMUSHORT     (ushort)
        opt         DMUSHORT     (ushort)
    ctb9        DMAMSDCTB    (struct)
        cnt         DMUNLONG     (ulong)
        thresh      DMUSHORT     (ushort)
        opt         DMUSHORT     (ushort)
    ofi         DMAMSDOPT    (struct)
(a)     opt0        DMBOOL       (enum: 1)
(b)     opt1        DMBOOL       (enum: 1)
(c)     opt2        DMBOOL       (enum: 1)
(d)     opt3        DMBOOL       (enum: 1)
(e)     opt4        DMBOOL       (enum: 1)
(f)     opt5        DMBOOL       (enum: 1)
(g)     opt6        DMBOOL       (enum: 1)
(h)     opt7        DMBOOL       (enum: 1)
(i)     opt8        DMBOOL       (enum: 1)
(j)     opt9        DMBOOL       (enum: 1)
(k)     opt10       DMBOOL       (enum: 1)
(l)     opt11       DMBOOL       (enum: 1)
(m)     opt12       DMBOOL       (enum: 1)
(n)     opt13       DMBOOL       (enum: 1)
(o)     opt14       DMBOOL       (enum: 1)
(p)     opt15       DMBOOL       (enum: 1)
(q)     opt16       DMBOOL       (enum: 1)
(r)     opt17       DMBOOL       (enum: 1)
(s)     opt18       DMBOOL       (enum: 1)
(t)     opt19       DMBOOL       (enum: 1)
```

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```
(u)     opt20       DMBOOL       (enum: 1)
(v)     opt21       DMBOOL       (enum: 1)
(w)     opt22       DMBOOL       (enum: 1)
(x)     opt23       DMBOOL       (enum: 1)
(y)     opt24       DMBOOL       (enum: 1)
(z)     opt25       DMBOOL       (enum: 1)
(A)     opt26       DMBOOL       (enum: 1)
(B)     opt27       DMBOOL       (enum: 1)
(C)     opt28       DMBOOL       (enum: 1)
(D)     opt29       DMBOOL       (enum: 1)
(E)     opt30       DMBOOL       (enum: 1)
(F)     opt31       DMBOOL       (enum: 1)
    server      DMOSPID      (struct)
        procno      DMSHORT      (short)
        pcrid       DMUCHAR      (uchar)
        uniq        DMUCHAR      (uchar)
    pas_offset  DMUNL18      (ulong: 18)
(G) pas_seg_no  DMUNS4       (ushort: 4)
    sidx        DMUNS4       (ushort: 4)     <--- key
    blkperss    DMUNS6       (ushort: 6)
    pas_sz      DMUNL18      (ulong: 18)
    dlg         DMUNS4       (ushort: 4)
(H) irpt        DMAMSDIRPT   (enum: 2)
    appl        DMCHR9       (array [ 9 ] of char )
    rsmax       DMUNL17      (ulong: 17)
    file        DMCHR9       (array [ 9 ] of char )
    rsmin       DMUNL17      (ulong: 17)
    ftamuser    DMCHR9       (array [ 9 ] of char )
    blksz       DMUSHORT     (ushort)
    tpfill      DMUSHORT     (ushort)
    trailer     DMUSHORT     (ushort)
    bk_time     DMUSHORT     (ushort)
        User, Compacted and Stored Tuple Layout   AMSD_STR
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+============  tcb0 ============+===============|
   |                                                                 |
 0 |                               time                              |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 4 |              tid                |              opt              |
   |---------------+---------------+---------------+---------------|
   |                                                                 |
 8 |                              offset                             |
   |===============+============  tcb1 ============+===============|
   |                                                                 |
12 |                               time                              |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
16 |              tid                |              opt              |
   |---------------+---------------+---------------+---------------|
   |                                                                 |
20 |                              offset                             |
   |===============+============  tcb2 ============+===============|
```

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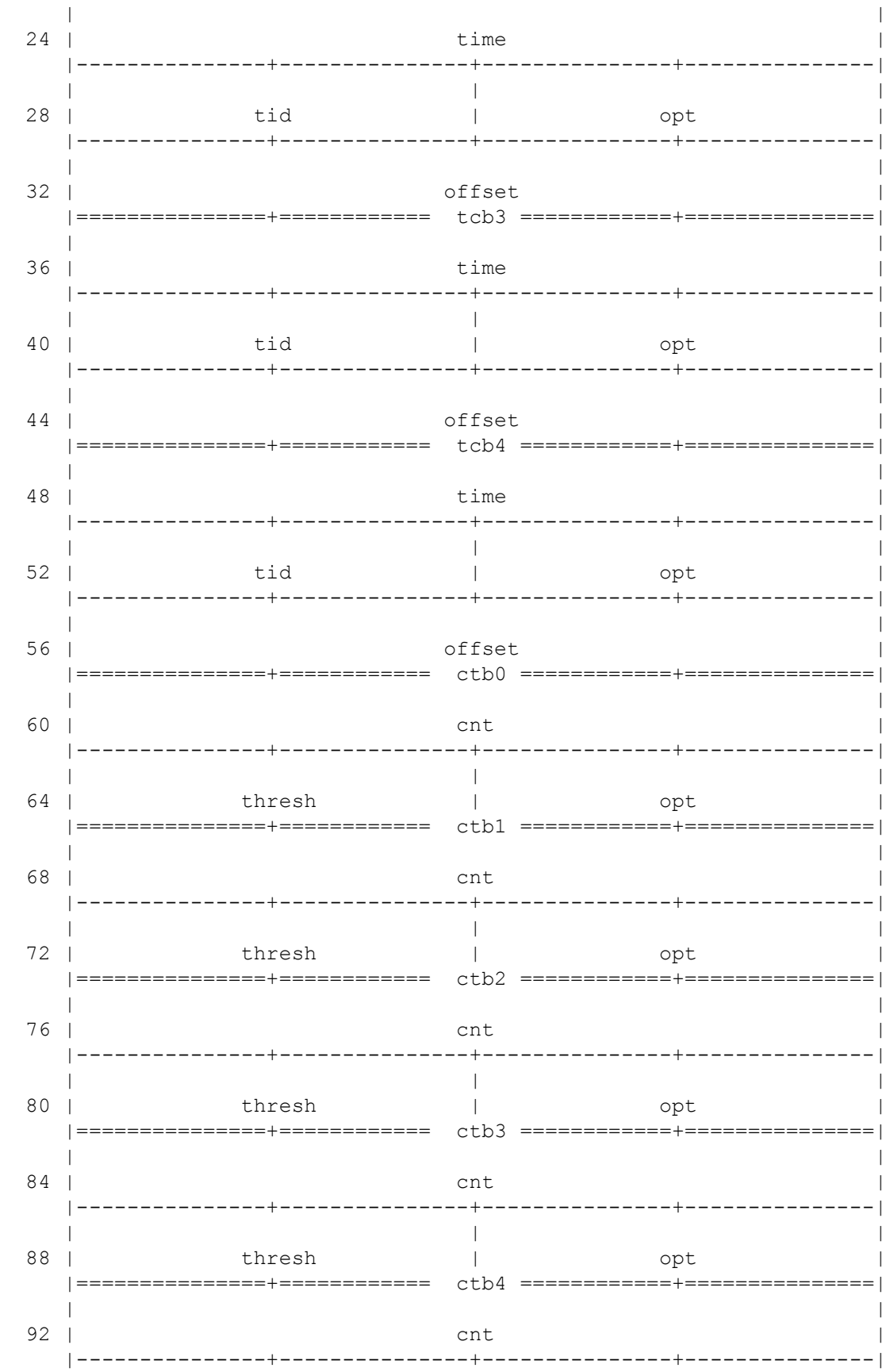


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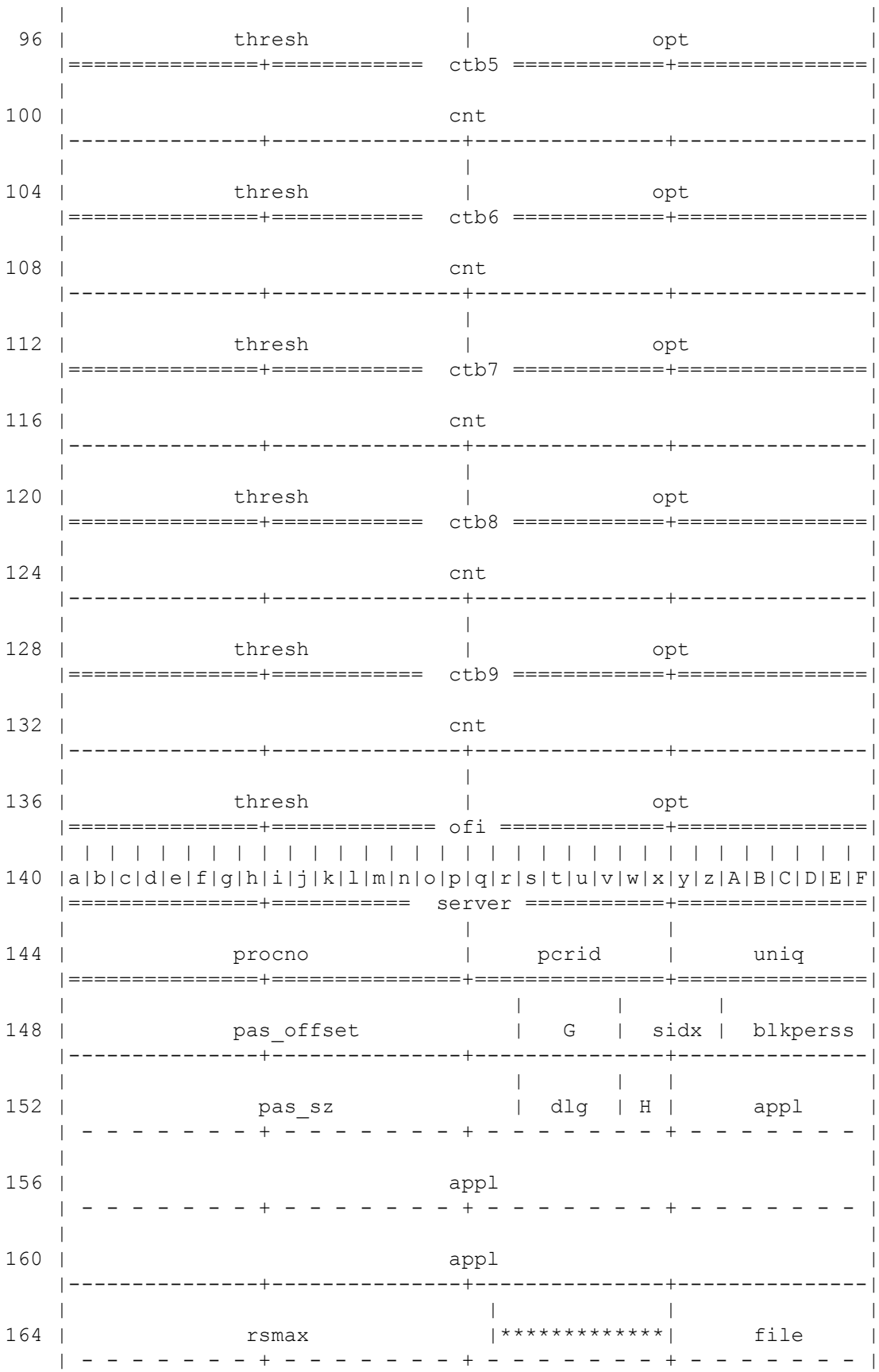
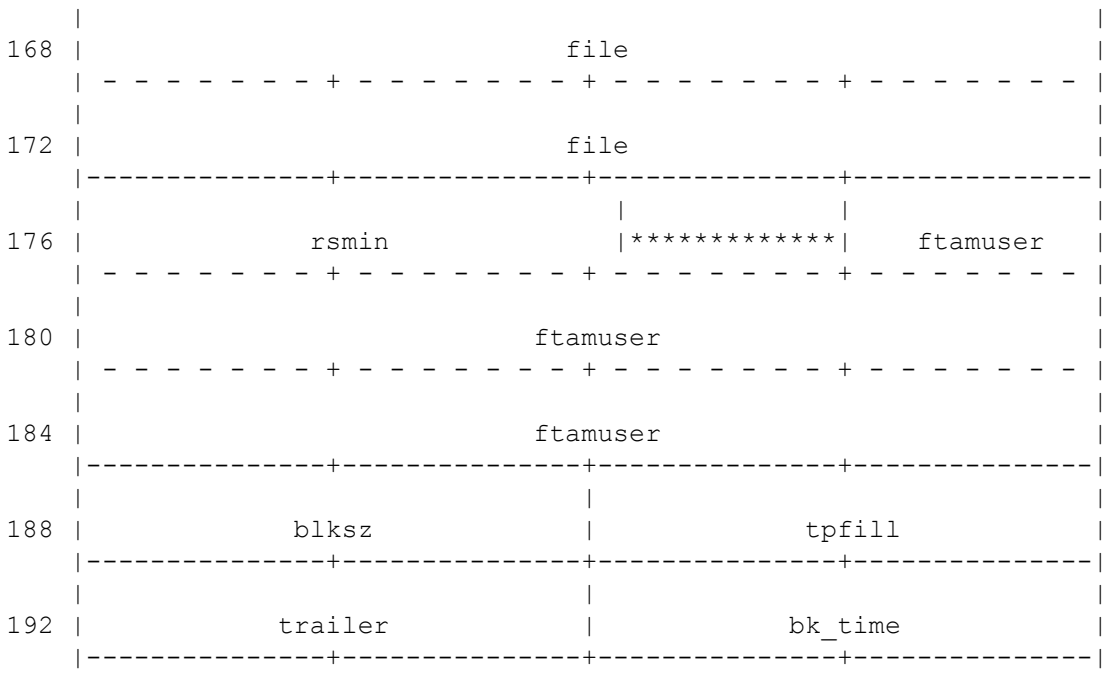

96
thresh
opt
ctb5
100
cnt
104
thresh
opt
ctb6
108
cnt
112
thresh
opt
ctb7
116
cnt
120
thresh
opt
ctb8
124
cnt
128
thresh
opt
ctb9
132
cnt
136
thresh
opt
ofi
140
a b c d e f g h i j k l m n o p q r s t u v w x y z A B C D E F
server
144
procno
pcrid
uniq
148
pas_offset
G
sidx
blkperss
152
pas_sz
dlg
H
appl
156
appl
160
appl
164
rsmax
file




( 196 bytes )

```
domain alAMSD_S   struct  (20 sub-attributes)
           tcb         .11.fake     (array [ 5 ] of .0fake )
               time        unsigned long (ulong)
               tid         short        (short)
               opt         unsigned short (ushort)
               offset      unsigned long (ulong)
           ctb         .12.fake     (array [ 10 ] of .4fake )
               cnt         unsigned long (ulong)
               thresh      unsigned short (ushort)
               opt         unsigned short (ushort)
           ofi         .3fake       (struct)
   (a)         opt0        .2fake       (enum)
   (b)         opt1        .2fake       (enum)
   (c)         opt2        .2fake       (enum)
   (d)         opt3        .2fake       (enum)
   (e)         opt4        .2fake       (enum)
   (f)         opt5        .2fake       (enum)
   (g)         opt6        .2fake       (enum)
   (h)         opt7        .2fake       (enum)
   (i)         opt8        .2fake       (enum)
   (j)         opt9        .2fake       (enum)
   (k)         opt10       .2fake       (enum)
   (l)         opt11       .2fake       (enum)
   (m)         opt12       .2fake       (enum)
   (n)         opt13       .2fake       (enum)
   (o)         opt14       .2fake       (enum)
   (p)         opt15       .2fake       (enum)
   (q)         opt16       .2fake       (enum)
   (r)         opt17       .2fake       (enum)
   (s)         opt18       .2fake       (enum)
   (t)         opt19       .2fake       (enum)
```

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```
   (u)          opt20       .2fake       (enum)
   (v)          opt21       .2fake       (enum)
   (w)          opt22       .2fake       (enum)
   (x)          opt23       .2fake       (enum)
   (y)          opt24       .2fake       (enum)
   (z)          opt25       .2fake       (enum)
   (A)          opt26       .2fake       (enum)
   (B)          opt27       .2fake       (enum)
   (C)          opt28       .2fake       (enum)
   (D)          opt29       .2fake       (enum)
   (E)          opt30       .2fake       (enum)
   (F)          opt31       .2fake       (enum)
          server       .5fake       (struct)
              procno       short        (short)
              pcrid        unsigned char (uchar)
              uniq         unsigned char (uchar)
          pas_offset   .13.fake     (ulong: 18)
   (G)    pas_seg_no   .14.fake     (ushort: 4)
          sidx         .15.fake     (ushort: 4)
          blkperss     .16.fake     (ushort: 6)
          pas_sz       .17.fake     (ulong: 18)
          dlg          .18.fake     (ushort: 4)
   (H)    irpt         .1fake       (enum)
          appl         .19.fake     (array [ 9 ] of char )
          rsmax        .20.fake     (ulong: 17)
          rsmin        .22.fake     (ulong: 17)
          ftamuser     .23.fake     (array [ 9 ] of char )
          blksz        unsigned short (ushort)
          tpfill       unsigned short (ushort)
          trailer      unsigned short (ushort)
          bk_time      unsigned short (ushort)
          file         .21.fake     (array [ 9 ] of char )
        Structure Layout      alAMSD_S
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+===========  tcb[0] ===========+===============|
    |                                                                 |
  0 |                               time                              |
    |---------------+---------------+---------------+---------------|
    |                               |                                 |
  4 |               tid             |               opt               |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  8 |                             offset                              |
    |===============+===========  tcb[1] ===========+===============|
    |                                                                 |
 12 |                               time                              |
    |---------------+---------------+---------------+---------------|
    |                               |                                 |
 16 |               tid             |               opt               |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 20 |                             offset                              |
    |===============+===========  tcb[2] ===========+===============|
```

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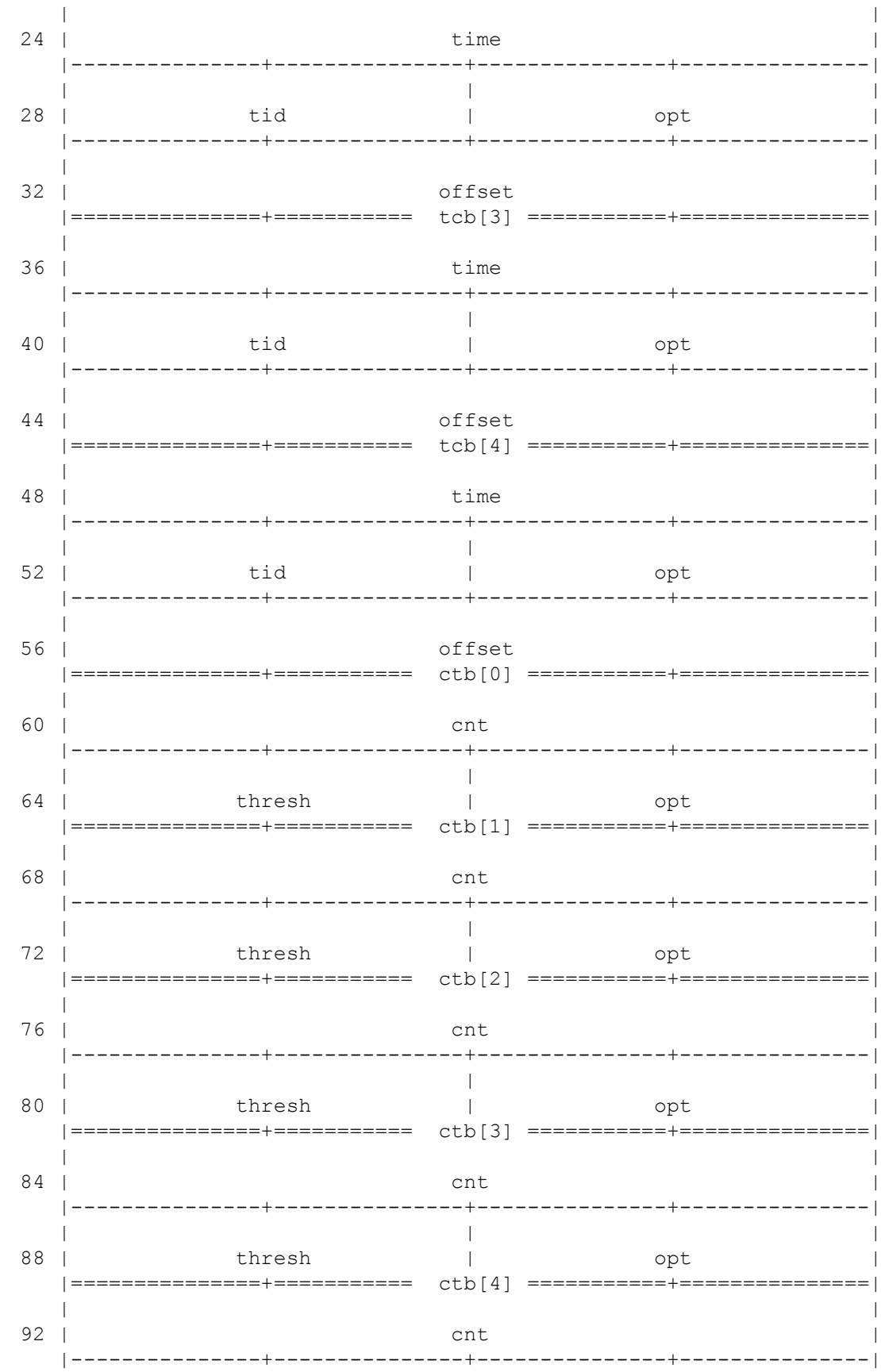
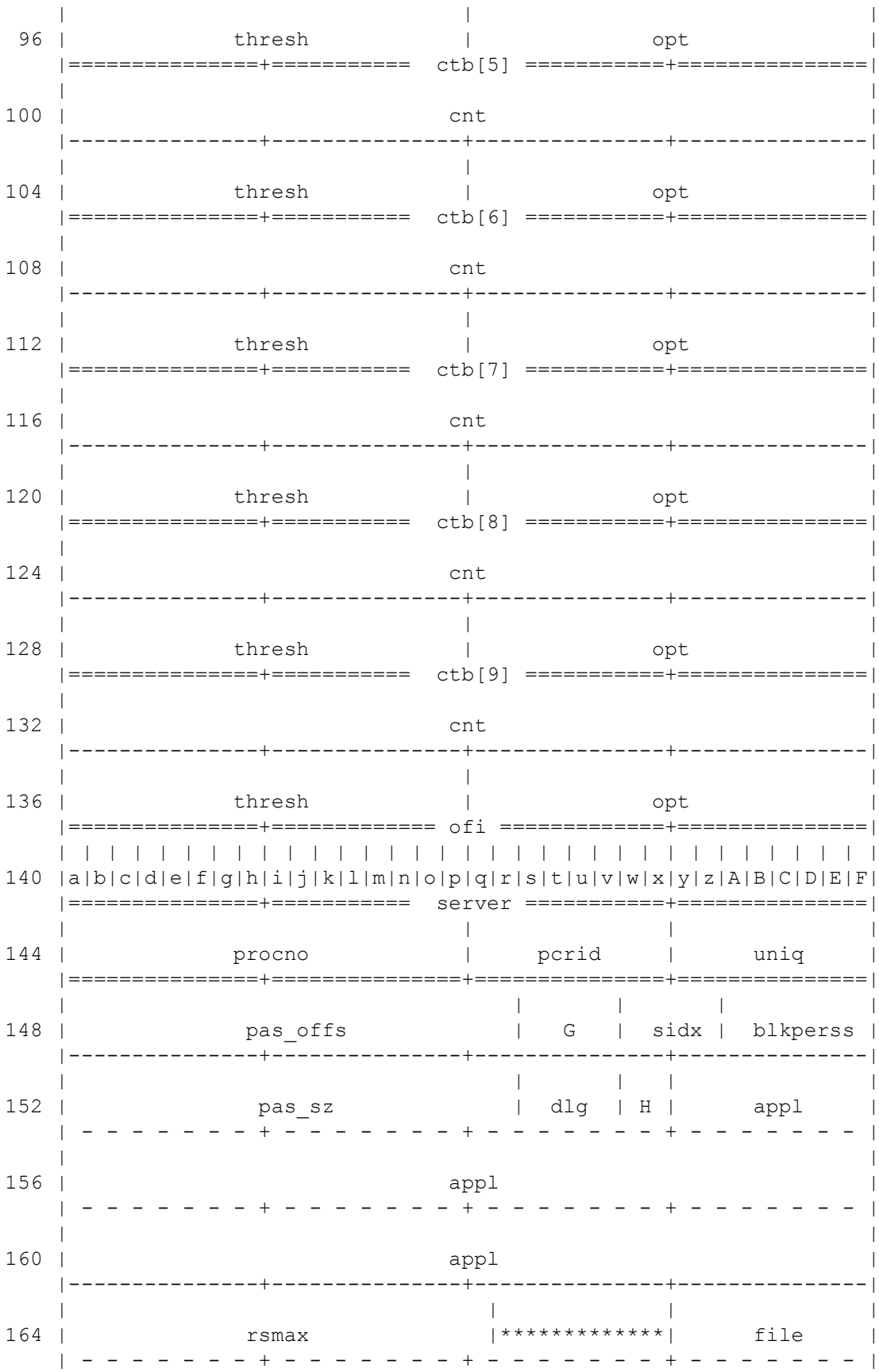
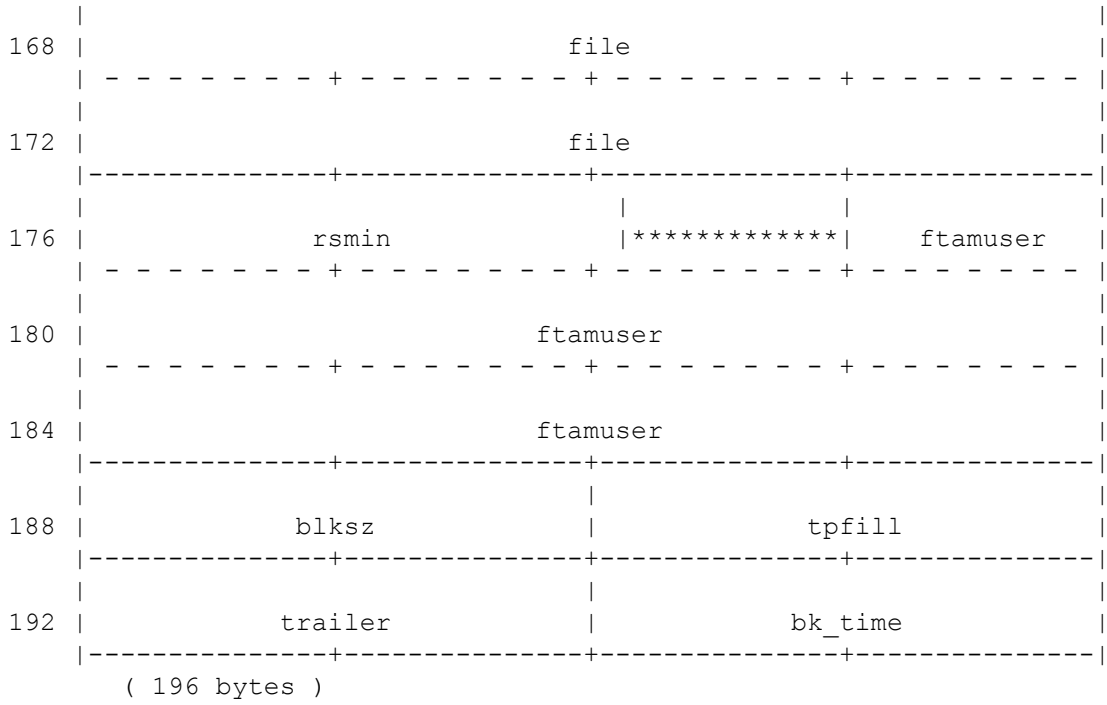

time
tid
opt
offset
tcb[3]
time
tid
opt
offset
tcb[4]
time
tid
opt
offset
ctb[0]
cnt
thresh
opt
ctb[1]
cnt
thresh
opt
ctb[2]
cnt
thresh
opt
ctb[3]
cnt
thresh
opt
ctb[4]
cnt


thresh
opt
ctb[5]
cnt
thresh
opt
ctb[6]
cnt
thresh
opt
ctb[7]
cnt
thresh
opt
ctb[8]
cnt
thresh
opt
ctb[9]
cnt
thresh
opt
ofi
a|b|c|d|e|f|g|h|i|j|k|l|m|n|o|p|q|r|s|t|u|v|w|x|y|z|A|B|C|D|E|F
server
procno
pcrid
uniq
pas_offs
G
sidx
blkperss
pas_sz
dlg
H
appl
appl
rsmax
file




## 4. Population Rules for RLamsd_str

**Relation Description:** Stream data manager stream protocol.

Stream data manager stream protocol. This is being added by feature 99-5E-3784 Real Time Call Details.

**Attribute: sidx**

**Fullname:** Stream Index

**Attribute Description:** This is the integer number associated with a stream.

**Attribute: appl**

**Fullname:** Application

**Attribute Description:** This is the name of the application.

**Attribute: dlg**

**Fullname:** Dialog

**Attribute Description:** Unique integers identifying streams per each application.

**Attribute: file**

**Fullname:** File prefix

**Attribute Description:** This is the prefix to be attached to the files produced by this dialog.

**Attribute: blkperss**

**Fullname:** Number of blocks per subsegment

**Attribute Description:** This is the number of blocks per subsegment.

**Attribute: blksz**

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**Fullname:** Block size

**Attribute Description:** block size in bytes

**Attribute: irpt**

**Fullname:** Integrity reporting

**Attribute Description:** This indicates whether sanity errors must be reported to AIM or the ROP.

**Attribute: rsmax**

**Fullname:** Record sequence maximum

**Attribute Description:** Maximum record sequence number available to this stream.

**Attribute: rsmin**

**Fullname:** Record sequence minimum

**Attribute Description:** Minimum record sequence number available to this stream.

**Attribute: tpfill**

**Fullname:** Tape filler

**Attribute Description:** number of bytes of filler on the disk reserved for expansion after formatting on the tape. This enables 1 to 1 correspondence between disk and tape blocks.

**Attribute: tcb0**

**Fullname:** Timer Control Block0

**Attribute Description:** AMSD error recovery timer.

**Attribute: tcb0.time**

**Fullname:** Timer Control Block0 Time

**Attribute Description:** Duration of the timer in milliseconds hexadecimal.

**Attribute: tcb0.tid**

**Fullname:** Timer Control Block0 Timer id

**Attribute Description:** OSDS identifier for the timer returned by the OSDS primitive used to acquire the timer.

**Attribute: tcb0.opt**

**Fullname:** Timer Control Block0 Optional Feature Indicator

**Attribute Description:** Bit to indicate the selection of an optional feature

**Attribute: tcb0.offset**

**Fullname:** Timer Control Block0 Offset

**Attribute Description:** Millisecond offset (in hex) from the hour at which the timer will expire.

**Attribute: tcb1**

**Fullname:** Timer Control Block1

**Attribute Description:** AMSD error recovery timer.

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**Attribute: tcb1.time**

**Fullname:** Timer Control Block1 Time

**Attribute Description:** Duration of the timer in milliseconds hexadecimal.

**Attribute: tcb1.tid**

**Fullname:** Timer Control Block1 Timer id

**Attribute Description:** OSDS identifier for the timer returned by the OSDS primitive used to acquire the timer.

**Attribute: tcb1.opt**

**Fullname:** Timer Control Block1 Optional Feature Indicator

**Attribute Description:** Bit to indicate the selection of an optional feature.

**Attribute: tcb1.offset**

**Fullname:** Timer Control Block1 Offset

**Attribute Description:** Millisecond offset (in hex) from the hour at which the timer will expire.

**Attribute: tcb2**

**Fullname:** Timer Control Block 2

**Attribute Description:** AMSD timer for MGGFSTATUS or MGGFSINIT timing.

**Attribute: tcb2.time**

**Fullname:** Timer Control Block2 Time

**Attribute Description:** Duration of the timer.

**Attribute: tcb2.tid**

**Fullname:** Timer Control Block2 Timer id

**Attribute Description:** OSDS identifier for the timer returned by the OSDS primitive used to acquire the timer.

**Attribute: tcb2.opt**

**Fullname:** Timer Control Block2 Optional Feature Indicator

**Attribute Description:** Bit to indicate the selection of an optional feature

**Attribute: tcb2.offset**

**Fullname:** Timer Control Block2 Offset

**Attribute Description:** Millisecond offset (in hex) from the hour at which the timer will expire.

**Attribute: tcb3**

**Fullname:** Timer control block 3

**Attribute Description:** Write retries and end messages timer.

**Attribute: tcb3.time**

**Fullname:** Timer Control Block3 Time

**Attribute Description:** Duration of the timer in milliseconds hex.

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**Attribute: tcb3.tid**

**Fullname:** Timer Control Block3 Timer id

**Attribute Description:** OSDS identifier for the timer returned by the OSDS primitive used to acquire the timer.

**Attribute: tcb3.opt**

**Fullname:** Timer Control Block3 Optional Feature Indicator

**Attribute Description:** Bit to indicate the selection of an optional feature.

**Attribute: tcb3.offset**

**Fullname:** Timer Control Block3 Offset

**Attribute Description:** Millisecond offset (in hex) from the hour at which the timer will expire.

**Attribute: tcb4**

**Fullname:** Timer control block 4

**Attribute Description:** Spare for field features.

**Attribute: tcb4.time**

**Fullname:** Timer Control Block4 Time

**Attribute Description:** Duration of the timer in hex.

**Attribute: tcb4.tid**

**Fullname:** Timer Control Block4 Timer id

**Attribute Description:** OSDS identifier for the timer returned by the OSDS primitive used to acquire the timer.

**Attribute: tcb4.opt**

**Fullname:** Timer Control Block4 Optional Feature Indicator

**Attribute Description:** Bit to indicate the selection of an optional feature

**Attribute: tcb4.offset**

**Fullname:** Timer Control Block4 Offset

**Attribute Description:** Millisecond offset (in hex) from the hour at which the timer will expire.

**Attribute: ctb0**

**Fullname:** Count/Threshold 0

**Attribute Description:** Count/Threshold for MGGFSINIT attempts.

**Attribute: ctb0.cnt**

**Fullname:** Count/Threshold0 count

**Attribute Description:** Number of times the event has occurred.

**Attribute: ctb0.thresh**

**Fullname:** Count/Threshold0 Threshold

**Attribute Description:** Threshold that triggers action.

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**Attribute: ctb0.opt**
**Fullname:** Count/Threshold0 Option

**Attribute Description:** Spare for field features.

**Attribute: ctb1**
**Fullname:** Count/Threshold 1

**Attribute Description:** Count/Threshold for invalid syntax.

**Attribute: ctb1.cnt**
**Fullname:** Count/Threshold1 Count

**Attribute Description:** Number of times the event has occurred.

**Attribute: ctb1.thresh**
**Fullname:** Count/threshold1 Threshold

**Attribute Description:** Threshold that triggers action.

**Attribute: ctb1.opt**
**Fullname:** Count/Threshold1 Option

**Attribute Description:** Spare for field features.

**Attribute: ctb2**
**Fullname:** Count/threshold 2

**Attribute Description:** Count/threshold for bad write.

**Attribute: ctb2.cnt**
**Fullname:** Count/Threshold2 count

**Attribute Description:** Number of times the event has occurred.

**Attribute: ctb2.thresh**
**Fullname:** Count/Threshold2 Threshold

**Attribute Description:** Threshold that triggers action.

**Attribute: ctb2.opt**
**Fullname:** Count/Threshold2 Option

**Attribute Description:** Spare for field features.

**Attribute: ctb3**
**Fullname:** Count/threshold 3

**Attribute Description:** Spare for field features.

**Attribute: ctb3.cnt**
**Fullname:** Count/Threshold3 count

**Attribute Description:** Number of times the event has occurred.

**Attribute: ctb3.thresh**

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**Fullname:** Count/Threshold3 Threshold

**Attribute Description:** Threshold that triggers action.

**Attribute: ctb3.opt**

**Fullname:** Count/Threshold3 Option

**Attribute Description:** Spare for field features.

**Attribute: ctb4**

**Fullname:** Count/threshold 4

**Attribute Description:** Count/threshold for OSSENDMSG failure

**Attribute: ctb4.cnt**

**Fullname:** Count/Threshold4 count

**Attribute Description:** Number of times the event has occurred.

**Attribute: ctb4.thresh**

**Fullname:** Count/Threshold4 Threshold

**Attribute Description:** Threshold that triggers action.

**Attribute: ctb4.opt**

**Fullname:** Count/Threshold4 Option

**Attribute Description:** Spare for field features.

**Attribute: ctb5**

**Fullname:** Count/threshold 5

**Attribute Description:** Count/threshold for retries of timed transfer to disk.

**Attribute: ctb5.cnt**

**Fullname:** Count/Threshold5 count

**Attribute Description:** Number of times the event has occurred.

**Attribute: ctb5.thresh**

**Fullname:** Count/Threshold5 Threshold

**Attribute Description:** Threshold that triggers action.

**Attribute: ctb5.opt**

**Fullname:** Count/Threshold5 Option

**Attribute Description:** Spare for field features.

**Attribute: ctb6**

**Fullname:** Count/threshold 6

**Attribute Description:** Spare for field features.

**Attribute: ctb6.cnt**

**Fullname:** Count/Threshold6 count

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**Attribute Description:** Number of times the event has occurred.

**Attribute: ctb6.thresh**
**Fullname:** Count/Threshold6 Threshold

**Attribute Description:** Threshold that triggers action.

**Attribute: ctb6.opt**
**Fullname:** Count/Threshold6 Option

**Attribute Description:** Spare for field features.

**Attribute: ctb7**
**Fullname:** Count/threshold 7

**Attribute Description:** Spare for field features.

**Attribute: ctb7.cnt**
**Fullname:** Count/Threshold7 count

**Attribute Description:** Number of times the event has occurred.

**Attribute: ctb7.thresh**
**Fullname:** Count/Threshold7 Threshold

**Attribute Description:** Threshold that triggers action.

**Attribute: ctb7.opt**
**Fullname:** Count/Threshold7 Option

**Attribute Description:** Spare for field features.

**Attribute: ctb8**
**Fullname:** Count/threshold 8

**Attribute Description:** Spare for field features.

**Attribute: ctb8.cnt**
**Fullname:** Count/Threshold8 count

**Attribute Description:** Number of times the event has occurred.

**Attribute: ctb8.thresh**
**Fullname:** Count/Threshold8 Threshold

**Attribute Description:** Threshold that triggers action.

**Attribute: ctb8.opt**
**Fullname:** Count/Threshold8 Option

**Attribute Description:** Spare for field features.

**Attribute: ctb9**
**Fullname:** Count/threshold 9

**Attribute Description:** Spare for field features.

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**Attribute: ctb9.cnt**

**Fullname:** Count/Threshold9 count

**Attribute Description:** Number of times the event has occurred.

**Attribute: ctb9.thresh**

**Fullname:** Count/Threshold9 Threshold

**Attribute Description:** Threshold that triggers action.

**Attribute: ctb9.opt**

**Fullname:** Count/Threshold9 Option

**Attribute Description:** Spare for field features.

**Attribute: ofi**

**Fullname:** Optional flag indicator

**Attribute Description:** 32 DMBOOL flags used to indicate the presence or absence of optional features for AMSD.

**Attribute: ofi.opt0**

**Fullname:** Option 0

**Attribute Description:** Routine Integrity Checks

**Attribute: ofi.opt1**

**Fullname:** Option 1

**Attribute Description:** Enable incrementing the leaky bucket counter for late responses to MGGFSWRITE requests.

**Attribute: ofi.opt2**

**Fullname:** Option 2

**Attribute Description:** Send MGGFSEND after the next MGGFSEND response.

**Attribute: ofi.opt3**

**Fullname:** Option 3

**Attribute Description:** Do MGGFSWRITE retries if unsuccessful during timed transfer to disk.

**Attribute: ofi.opt4**

**Fullname:** Option 4

**Attribute Description:** Update the block headers right before sending MGGFSWRITE data to disk.

**Attribute: ofi.opt5**

**Fullname:** Option 5

**Attribute Description:** Do a write request even if the 'write sent' flag is DBYES

**Attribute: ofi.opt6**

**Fullname:** Option 6

**Attribute Description:** Should never be set to DBYES in the field.

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**Attribute: ofi.opt7**
**Fullname:** Option 7

**Attribute Description:** Indicate that subscriber charge register information should be included in the call accounting record.

**Attribute: ofi.opt8**
**Fullname:** Option 8

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt9**
**Fullname:** Option 9

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt10**
**Fullname:** Option 10

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt11**
**Fullname:** Option 11

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt12**
**Fullname:** Option 12

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt13**
**Fullname:** Option 13

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt14**
**Fullname:** Option 14

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt15**
**Fullname:** Option 15

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt16**
**Fullname:** Option 16

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt17**
**Fullname:** Option 17

**Attribute Description:** Spare for field features.

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**Attribute: ofi.opt18**
**Fullname:** Option 18

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt19**
**Fullname:** Option 19

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt20**
**Fullname:** Option 20

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt21**
**Fullname:** Option 21

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt22**
**Fullname:** Option 22

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt23**
**Fullname:** Option 23

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt24**
**Fullname:** Option 24

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt25**
**Fullname:** Option 25

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt26**
**Fullname:** Option 26

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt27**
**Fullname:** Option 27

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt28**
**Fullname:** Option 28

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt29**

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**Fullname:** Option 29

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt30**
**Fullname:** Option 30

**Attribute Description:** Spare for field features.

**Attribute: ofi.opt31**
**Fullname:** Option 31

**Attribute Description:** Spare for field features.

**Attribute: server**
**Fullname:** Server

**Attribute Description:** OSDS identifier for the process that receives write requests from AMSD.

**Attribute: server.procno**
**Fullname:** Process number

**Attribute Description:** OSDS process number for GFS.

**Attribute: server.pcrid**
**Fullname:** Processor number

**Attribute Description:** OSDS processor id for GFS.

**Attribute: server.uniq**
**Fullname:** Uniqueness

**Attribute Description:** OSDS uniqueness id for GFS.

**Attribute: pas_seg_no**
**Fullname:** PAS Segment Number

**Attribute Description:** The number of the call accounting pas segment used for this stream.

**Attribute: pas_offset**
**Fullname:** PAS Segment Offset

**Attribute Description:** The offset in bytes into the pas segment for this stream where storage of call accounting data for this stream begins.

**Attribute: pas_sz**
**Fullname:** PAS Memory Size

**Attribute Description:** The amount of PAS memory in bytes available to store call accounting data for this stream.

**Attribute: ftamuser**
**Fullname:** FTAMUSER Record Key

**Attribute Description:** The key to the ftamuser ecd record used for datalink transfer for this stream.

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**Attribute: bk_time**

**Fullname:** Backlog DTP Search Time

**Attribute Description:** The time in seconds to search backwards from the current time to determine whether a file should be transferred using the current DTP or the backlog DTP.

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# AMTKGP

## 1. Description

Trunk group billing information (Toll switch).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8191 |
| expected tuples in relation | 300 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
AMTKGP      relid = 595   DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL

     grpnum      DMGRPNUM     (ushort)     <--- key
     cmcid       DMSHORT      (short)
 (a) cmc_obill   DMCMCTYPE    (enum: 2)
 (b) cmc_tbill   DMCMCTYPE    (enum: 2)
 (c) cmc         DMBOOL       (enum: 1)
 (d) blknoani    DMBOOL       (enum: 1)
 (e) billtrk     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout AMTKGP
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             grpnum            |             cmcid             |
   |---------------+---------------+---------------+---------------|
   |   |   | | | | |                                               |
 4 | a | b |c|d|e|***********************************************|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population Rules for RLamtkgp

**Relation Description:** AM Trunk Groups.

Trunk group billing information (Toll switch).

**Attribute: grpnum**

**Fullname:** Trunk group number.

**Attribute Description:** Every trunk grp with service class FC_LATA_CONN and FC_TTOLL_CONN defined in rt_trkg must be in this relation.

Trunk groups with service class FC_PF used as a Type 1 Cellular Access interface must also be in this relation (that is, tuples are defined in this relation for FC_PF trunk groups only if cmc is DBYES).

**Attribute: cmc**

**Fullname:** Cellular Mobile Carrier.

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**Attribute Description:** Trunk group connects to a Cellular Mobile Carrier.

**Attribute: blknoani**

**Fullname:** block EAS call if no ani received.

**Attribute Description:** Block EAS calls received on LATA connect trunks without ANI.

**Attribute: billtrk**

**Fullname:** create ama record on EAS calls.

**Attribute Description:** AMA records should be created on LATA-connect trunks.

**Attribute: cmcid**

**Fullname:** Cellular Mobile Carrier ID number.

**Attribute Description:** If this trunk group is to a LATA-connect trunk (cmc is DBYES) then this field contains the cmc identifier (range of 1-60), which must also be found in the amacmcid relation. If cmc is DBNO then cmcid should be 0.

**Attribute: cmc_obill**

**Fullname:** Billing type for originating CMC calls.

**Attribute Description:** RLamtkgp.cmc_obill can only be set to CMC_T2ABILL if the Type 2A Cellular Interconnections Special Feature has been purchased (SFID128) and RLamtkgp.cmc_obill can only be set to CMC_T2BBILL if the Type 2A/2B CMC via CCS Special Feature has been purchased (SFID160). When the cmc_obill is set, the RLamtkgp.cmc must be DBYES, the trunk service class must be FC_TTOLL_CONN, and the trunk group type must be RTOUTGO or RTTWOWAY. In addition, the outgoing signaling type must be DBMF when SFID 128 has been purchased and the outgoing signaling type must be DBMF or DBISUP7 when SFID 160 has been purchased.

RLamtkgp.cmc_obill can only be set to CMC_T1BILL if the AMA Capabilities for Type 1 Cellular Access Special Feature has been purchased (SFID167). When cmc_obill is set, then cmc must be DBYES, the service class must be FC_PF, the group type must be RTOUTGO or RTTWOWAY, and the signaling type must be DBMF.

**Attribute: cmc_tbill**

**Fullname:** Billing type for terminating CMC calls.

**Attribute Description:** RLamtkgp.cmc_tbill can only be set to CMC_T2ABILL if the Type 2A Cellular Interconnections Special Feature has been purchased (SFID128) and RLamtkgp.cmc_tbill can only be set to CMC_T2BBILL if the Type 2A/2B CMC via CCS Special Feature has been purchased (SFID160). When the cmc_tbill is set, the RLamtkgp.cmc must be DBYES, the trunk service class must be FC_TTOLL_CONN, and the trunk group type must be RTINCOM or RTTWOWAY. In addition, the incoming signaling type must be DBMF when SFID 128 has been purchased and the incoming signaling type must be DBMF or DBISUP7 when SFID 160 has been purchased.

RLamtkgp.cmc_tbill can only be set to CMC_T1BILL if the AMA Capabilities for Type 1 Cellular Access Special Feature has been purchased (SFID167). When cmc_tbill is set, then cmc must be DBYES, the service class must be FC_PF, the group type must be RTINCOM or RTTWOWAY, and the signaling type must be DBMF.

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# ANI_RMK

## 1. Description

This relation contains the ANI Table recent change remarks.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 25000 |
| expected tuples | 1000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| ks key store | AUTO |
| foldtype | DBGC31 |
| spare | 4c |

## 3. Field Layout

```
ANI_RMK     relid = 3009  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCDATA


     index       DMLDPINDX    (ulong: 17)       <--- key
     remarks     DMCHAR12     (array [ 12 ] of char )
         User, Compacted and Stored Tuple Layout    ANI_RMK
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |             |               |
  0 |              index              |*************|    remarks    |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
  4 |                            remarks                              |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
  8 |                            remarks                              |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                 |               |
 12 |                    remarks                      |***************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population rules for RLani_rmk

### Relation Description

```
        ANI Table remarks

        This relation is used to store the remarks for every
        ANI Table data set (RLldpindx).
```

**Attribute:**

```
        index
```

**Fullname:**

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index

**Attribute Description:**

Used to determine to which RLldpindx tuple these remarks belong.

**Attribute:**

remarks

**Fullname:**

remarks

**Attribute Description:**

Used for comments/notes for every ANI Table data set (RLldpindx).

**Defines:**

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# ANIDX000

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
ANIDX000    relid = 2944  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX000
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |               index             |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |              anitbl             |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx000

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX001

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX001    relid = 2945  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX001
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx001

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX002

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX002    relid = 2946  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX002
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx002

### Relation Description

Automatic Number Identification table

This relation consist of the Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

Provides ANI Table processing for Toll Digital Exchange (TDX) Calls based on options set in this relation.

The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb are used together to determine how LDP calls are processed.

Note: Terminology was changed from "Toll Digital Exchange (TDX)" to "Long Distance Platform (LDP)". The database still contains names with "tdx" whereas the customers will see "ldp" on ODA forms and RC views.

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX003

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX003    relid = 2947  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX003
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx003

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX004

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX004    relid = 2948  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX004
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx004

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX005

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX005    relid = 2949  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX005
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx005

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX006

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX006    relid = 2950  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX006
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx006

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX007

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX007    relid = 2951  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX007
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx007

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX008

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX008    relid = 2952  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX008
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx008

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX009

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX009    relid = 2953  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX009
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx009

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX010

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX010    relid = 2954  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX010
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx010

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX011

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX011    relid = 2955  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX011
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx011

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX012

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX012    relid = 2956  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX012
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx012

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX013

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX013    relid = 2957  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX013
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx013

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX014

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX014    relid = 2958  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX014
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx014

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX015

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX015    relid = 2959  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX015
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx015

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX016

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX016    relid = 2960  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX016
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx016

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX017

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX017    relid = 2961  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX017
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx017

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX018

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX018    relid = 2962  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX018
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx018

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX019

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX019    relid = 2963  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX019
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx019

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX020

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX020    relid = 2964  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX020
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx020

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX021

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX021    relid = 2965  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX021
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx021

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX022

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX022    relid = 2966  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX022
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx022

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX023

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX023    relid = 2967  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX023
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx023

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX024

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX024    relid = 2968  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX024
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx024

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX025

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX025    relid = 2969  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX025
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx025

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX026

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX026    relid = 2970  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX026
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx026

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX027

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX027    relid = 2971  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX027
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx027

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX028

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX028    relid = 2972  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX028
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx028

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX029

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX029    relid = 2973  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX029
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx029

### Relation Description

Automatic Number Identification table

This relation consist of the Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

Provides ANI Table processing for Toll Digital Exchange (TDX) Calls based on options set in this relation.

The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb are used together to determine how LDP calls are processed.

Note: Terminology was changed from "Toll Digital Exchange (TDX)" to "Long Distance Platform (LDP)". The database still contains names with "tdx" whereas the customers will see "ldp" on ODA forms and RC views.

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX030

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX030    relid = 2974  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX030
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx030

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX031

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX031    relid = 2975  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX031
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx031

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX032

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX032    relid = 2976  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX032
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx032

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX033

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX033    relid = 2977  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX033
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx033

### Relation Description

Automatic Number Identification table

This relation consist of the Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

Provides ANI Table processing for Toll Digital Exchange (TDX) Calls based on options set in this relation.

The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb are used together to determine how LDP calls are processed.

Note: Terminology was changed from "Toll Digital Exchange (TDX)" to "Long Distance Platform (LDP)". The database still contains names with "tdx" whereas the customers will see "ldp" on ODA forms and RC views.

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX034

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX034    relid = 2978  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX034
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx034

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX035

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX035    relid = 2979  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX035
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx035

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX036

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX036    relid = 2980  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX036
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx036

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX037

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX037    relid = 2981  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX037
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx037

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX038

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX038    relid = 2982  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX038
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx038

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX039

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX039    relid = 2983  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX039
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx039

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX040

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX040    relid = 2984  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX040
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx040

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX041

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX041    relid = 2985  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX041
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx041

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX042

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX042    relid = 2986  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX042
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx042

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX043

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX043    relid = 2987  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX043
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx043

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX044

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX044    relid = 2988  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX044
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx044

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX045

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX045    relid = 2989  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX045
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx045

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX046

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX046    relid = 2990  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX046
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx046

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX047

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX047    relid = 2991  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX047
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx047

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX048

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX048    relid = 2992  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX048
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx048

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX049

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX049    relid = 2993  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX049
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx049

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX050

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX050    relid = 2994  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX050
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx050

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX051

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX051    relid = 2995  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX051
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx051

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX052

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX052    relid = 2996  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX052
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx052

**Relation Description**

Automatic Number Identification table

This relation consist of the Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

Provides ANI Table processing for Toll Digital Exchange (TDX) Calls based on options set in this relation.

The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb are used together to determine how LDP calls are processed.

Note: Terminology was changed from "Toll Digital Exchange (TDX)" to "Long Distance Platform (LDP)". The database still contains names with "tdx" whereas the customers will see "ldp" on ODA forms and RC views.

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX053

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX053    relid = 2997  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX053
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx053

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX054

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX054    relid = 2998  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX054
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx054

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX055

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX055    relid = 2999  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX055
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx055

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX056

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX056    relid = 3000  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX056
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx056

### Relation Description

Automatic Number Identification table

This relation consist of the Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

Provides ANI Table processing for Toll Digital Exchange (TDX) Calls based on options set in this relation.

The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb are used together to determine how LDP calls are processed.

Note: Terminology was changed from "Toll Digital Exchange (TDX)" to "Long Distance Platform (LDP)". The database still contains names with "tdx" whereas the customers will see "ldp" on ODA forms and RC views.

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX057

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX057    relid = 3001  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX057
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx057

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX058

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX058    relid = 3002  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX058
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx058

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIDX059

## 1. Description

This relation consist of the new Long Distance Platform (LDP) Automatic Number Identification (ANI) Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150000 |
| expected tuples | 100000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| identical to | rlANIDX000 |

## 3. Field Layout

```
ANIDX059    relid = 3003  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     index       DMLDPINDX    (ulong: 17)
     locdigs     DMBLINENO    (ushort: 14)      <--- key
     anitbl      DMANITBL     (ushort: 16)      <--- key
     tdx_carr    DMBCARID     (ushort: 14)      <--- key
         User, Compacted and Stored Tuple Layout   ANIDX059
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              index              |          locdigs            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                           |   |
  4 |             anitbl              |          tdx_carr         |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLanidx059

### Relation Description

```
        Automatic Number Identification table

        This relation consist of the Long Distance Platform (LDP) Automatic
        Number Identification (ANI) Table.

        Provides ANI Table processing for Toll Digital Exchange
        (TDX) Calls based on options set in this relation.

        The relations RLanidflt, RLanitbl, RLanidx[XXX], and RLtdxcartb
        are used together to determine how LDP calls are processed.

        Note:  Terminology was changed from "Toll Digital Exchange (TDX)"
        to "Long Distance Platform (LDP)".  The database still contains
        names with "tdx" whereas the customers will see "ldp" on ODA forms
        and RC views.
```

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**Attribute:**
anitbl
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. Obtained from the RLanimod relation.

**Attribute:**
locdigs
**Fullname:**
local line number of ANI
**Attribute Description:**
A key for this relation. The local line number (the last four digits of the ANI).

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange subscribed carrier identifier for ANI Table processing.
**Attribute Description:**
Subscribed carrier identification code

**Attribute:**
index
**Fullname:**
index
**Attribute Description:**
Key for Automatic Number Identification index (ANI) table (RLldpindx).

**Defines:**
"db/DMcarr_val.h"

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# ANIIGRP

## 1. Description

This relation stores groups of ANI II and associates an ANI II digit list with each group. This relation is to have a distribution of Fixed Group (FG), with a grp_type of GPD_OSPS, and a grp_id of 4.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| expected number of tuples | 10 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
ANIIGRP     relid = 2814  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL


     iigrpid     DMUNS8       (ushort: 8)       <--- key
     entries     DMUNS7       (ushort: 7)
 (a) action      DMBOOL       (enum: 1)
     iidig1      DMUSHORT     (ushort)
     iidig2      DMUSHORT     (ushort)
     iidig3      DMUSHORT     (ushort)
     iidig4      DMUSHORT     (ushort)
     iidig5      DMUSHORT     (ushort)
     iidig6      DMUSHORT     (ushort)
     iidig7      DMUSHORT     (ushort)
     iidig8      DMUSHORT     (ushort)
     iidig9      DMUSHORT     (ushort)
     iidig10     DMUSHORT     (ushort)
     iidig11     DMUSHORT     (ushort)
     iidig12     DMUSHORT     (ushort)
     iidig13     DMUSHORT     (ushort)
     iidig14     DMUSHORT     (ushort)
     iidig15     DMUSHORT     (ushort)
     iidig16     DMUSHORT     (ushort)
     iidig17     DMUSHORT     (ushort)
     iidig18     DMUSHORT     (ushort)
     iidig19     DMUSHORT     (ushort)
     iidig20     DMUSHORT     (ushort)
     iidig21     DMUSHORT     (ushort)
     iidig22     DMUSHORT     (ushort)
     iidig23     DMUSHORT     (ushort)
     iidig24     DMUSHORT     (ushort)
     iidig25     DMUSHORT     (ushort)
     iidig26     DMUSHORT     (ushort)
     iidig27     DMUSHORT     (ushort)
     iidig28     DMUSHORT     (ushort)
     iidig29     DMUSHORT     (ushort)
     iidig30     DMUSHORT     (ushort)
     iidig31     DMUSHORT     (ushort)
```

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```
iidig32     DMUSHORT     (ushort)
iidig33     DMUSHORT     (ushort)
iidig34     DMUSHORT     (ushort)
iidig35     DMUSHORT     (ushort)
iidig36     DMUSHORT     (ushort)
iidig37     DMUSHORT     (ushort)
iidig38     DMUSHORT     (ushort)
iidig39     DMUSHORT     (ushort)
iidig40     DMUSHORT     (ushort)
iidig41     DMUSHORT     (ushort)
iidig42     DMUSHORT     (ushort)
iidig43     DMUSHORT     (ushort)
iidig44     DMUSHORT     (ushort)
iidig45     DMUSHORT     (ushort)
iidig46     DMUSHORT     (ushort)
iidig47     DMUSHORT     (ushort)
iidig48     DMUSHORT     (ushort)
iidig49     DMUSHORT     (ushort)
iidig50     DMUSHORT     (ushort)
iidig51     DMUSHORT     (ushort)
iidig52     DMUSHORT     (ushort)
iidig53     DMUSHORT     (ushort)
iidig54     DMUSHORT     (ushort)
iidig55     DMUSHORT     (ushort)
iidig56     DMUSHORT     (ushort)
iidig57     DMUSHORT     (ushort)
iidig58     DMUSHORT     (ushort)
iidig59     DMUSHORT     (ushort)
iidig60     DMUSHORT     (ushort)
iidig61     DMUSHORT     (ushort)
iidig62     DMUSHORT     (ushort)
iidig63     DMUSHORT     (ushort)
iidig64     DMUSHORT     (ushort)
iidig65     DMUSHORT     (ushort)
iidig66     DMUSHORT     (ushort)
iidig67     DMUSHORT     (ushort)
iidig68     DMUSHORT     (ushort)
iidig69     DMUSHORT     (ushort)
iidig70     DMUSHORT     (ushort)
iidig71     DMUSHORT     (ushort)
iidig72     DMUSHORT     (ushort)
iidig73     DMUSHORT     (ushort)
iidig74     DMUSHORT     (ushort)
iidig75     DMUSHORT     (ushort)
iidig76     DMUSHORT     (ushort)
iidig77     DMUSHORT     (ushort)
iidig78     DMUSHORT     (ushort)
iidig79     DMUSHORT     (ushort)
iidig80     DMUSHORT     (ushort)
iidig81     DMUSHORT     (ushort)
iidig82     DMUSHORT     (ushort)
iidig83     DMUSHORT     (ushort)
iidig84     DMUSHORT     (ushort)
iidig85     DMUSHORT     (ushort)
```

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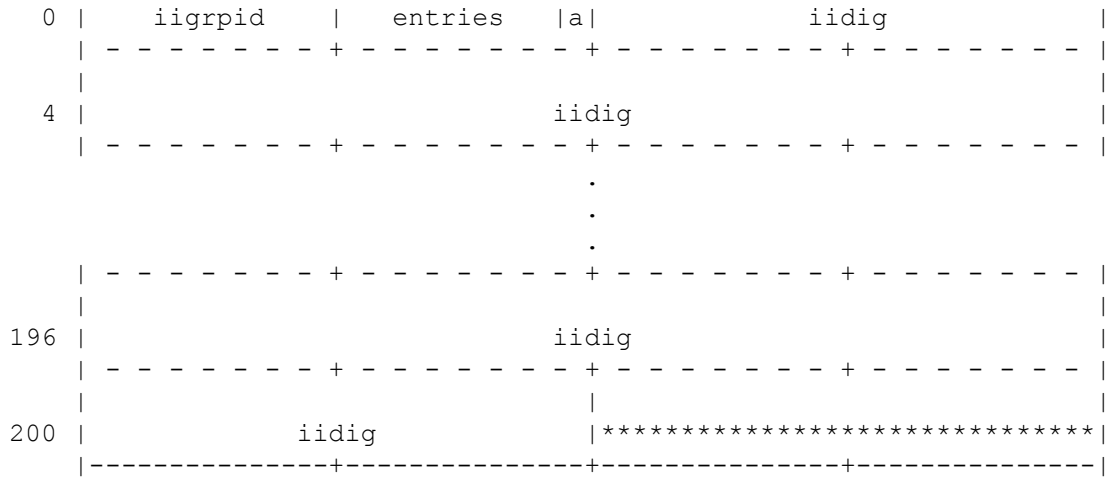
```
     iidig86     DMUSHORT     (ushort)
     iidig87     DMUSHORT     (ushort)
     iidig88     DMUSHORT     (ushort)
     iidig89     DMUSHORT     (ushort)
     iidig90     DMUSHORT     (ushort)
     iidig91     DMUSHORT     (ushort)
     iidig92     DMUSHORT     (ushort)
     iidig93     DMUSHORT     (ushort)
     iidig94     DMUSHORT     (ushort)
     iidig95     DMUSHORT     (ushort)
     iidig96     DMUSHORT     (ushort)
     iidig97     DMUSHORT     (ushort)
     iidig98     DMUSHORT     (ushort)
     iidig99     DMUSHORT     (ushort)
     iidig100    DMUSHORT     (ushort)
         User, Compacted and Stored Tuple Layout    ANIIGRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |             | |                               |
  0 |    iigrpid    |   entries   |a|             iidig1            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             iidig2            |             iidig3            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |             iidig4            |             iidig5            |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                               |                               |
192 |            iidig96            |            iidig97            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
196 |            iidig98            |            iidig99            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
200 |            iidig100           |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 204 bytes )


domain alANIIGRP  struct  (4 sub-attributes)
         iigrpid     .2.fake      (ushort)
         entries     .3.fake      (ushort: 7)
 (a)     action      .0fake       (enum)
         iidig       .4.fake      (array [ 100 ] of unsigned short )
                     Structure Layout     alANIIGRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |             | |                               |
```




## 4. Population rules for RLaniigrp

### Relation Description

ANII II Carrier Group Table

This relation provides information as to whether an OLNS query should be sent given the ANI Group ID from the incoming trunk group and the ANI II digits received on the call.

**Attribute:**
iigrpid
**Fullname:**
ANI II Group ID.
**Attribute Description:**
This field specifies ANI II group identification number.

**Attribute:**
action
**Fullname:**
Send II Digits.
**Attribute Description:**
This field specifies if the ANI II digits in the list need to be sent or not.

**Attribute:**
entries
**Fullname:**
entries
**Attribute Description:**
Number of entries in the iidig array.

**Attribute:**

iidig[*]

**Fullname:**

ANI II digit list.

**Attribute Description:**

array of permitted ANI II digit list.

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# ANIIITBL

## 1. Description

This relation contains the OSPS Automatic Number Identification (ANI) II Digits for Automatic Message Accounting (AMA) Recording . This relation will have a distribution of Fixed Group (FG) with grp_type of GPD_OPRT and a grp_id of 1.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| expected number of tuples | 3 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
ANIIITBL    relid = 2922  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL


     aniiidigs   DMUSHORT     (ushort) <--- key
     ospsff1     DMUSHORT     (ushort)
     ospsff2     DMUSHORT     (ushort)
     ospsff3     DMUSHORT     (ushort)
     ospsff4     DMUSHORT     (ushort)
     ospsff5     DMUCHAR      (uchar)
 (a) ospsff6     DMBOOL       (enum: 1)
 (b) ospsff7     DMBOOL       (enum: 1)
 (c) ospsff8     DMBOOL       (enum: 1)
 (d) ospsff9     DMBOOL       (enum: 1)
 (e) ospsff10    DMBOOL       (enum: 1)
 (f) ospsff11    DMBOOL       (enum: 1)
 (g) ospsff12    DMBOOL       (enum: 1)
 (h) ospsff13    DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   ANIIITBL
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |           aniiidigs           |            ospsff1            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |            ospsff2            |            ospsff3            |
   |---------------+---------------+---------------+---------------|
   |                               |               | | | | | | | | |
 8 |            ospsff4            |    ospsff5    |a|b|c|d|e|f|g|h|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population rules for RLaniiitbl

**Relation Description**

OSPS Automatic Number Identification (ANI) II Digits for Automatic

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Message Accounting (AMA) Recording

RLaniiitbl defines those ANI II digits that are to be considered eligible for OSPS AMA - Record ANI II Digits feature treatment.

**Attribute:**
aniiidigs
**Fullname:**
ANI II Digits
**Attribute Description:**
The ANI II Digits received in signaling that are eligible for OSPS AMA - Record ANI II Digits feature treatment.

**Attribute:**
ospsff1
**Fullname:**
Spare 1
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff2
**Fullname:**
Spare 2
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff3
**Fullname:**
Spare 3
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff4
**Fullname:**
Spare 4
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff5
**Fullname:**
Spare 5
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff6
**Fullname:**
Spare 6
**Attribute Description:**

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Spare field for fast feature development.

**Attribute:**
ospsff7
**Fullname:**
Spare 7
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff8
**Fullname:**
Spare 8
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff9
**Fullname:**
Spare 9
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff10
**Fullname:**
Spare 10
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff11
**Fullname:**
Spare 11
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff12
**Fullname:**
Spare 12
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff13
**Fullname:**
Spare 13
**Attribute Description:**
Spare field for fast feature development.

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# ANIMOD

## 1. Description

This relation contains the translates ANI (npanxx) to sm number and index.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 64000 |
| expected tuples | 4000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
ANIMOD      relid = 1769  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL


     npanxx      DMBNPANXX    (ulong: 20)       <--- key, not stored
     anitbl      DMANITBL     (ushort: 16)
     p_animod    DMMODULE     (ushort: 8)
     s_animod    DMMODULE     (ushort: 8)
         User and Compacted Tuple Layout     ANIMOD
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                       |                       |
  0 |                  npanxx               |***********************|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  4 |              anitbl           |    p_animod   |    s_animod   |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )


     anitbl      DMANITBL     (ushort: 16)
     p_animod    DMMODULE     (ushort: 8)
     s_animod    DMMODULE     (ushort: 8)
           Stored Tuple Layout   ANIMOD
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |              anitbl           |    p_animod   |    s_animod   |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population rules for RLanimod

**Relation Description**

Automatic Number Identification to Switching Module

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Translates ANI (NPANXX) to SM number and index.
This relation determines which SM contains further Outbound Services data for the given ANI.

**Attribute:**
npanxx
**Fullname:**
numbering plan area - office code
**Attribute Description:**
This corresponds to the first six digits of the ANI. The first three digits make up the numbering plan area followed by the three digits of office code.

**Attribute:**
p_animod
**Fullname:**
primary ANI table switching module
**Attribute Description:**
The primary copy of the outbound services ANI table (RLldpindx/RLanidx[XXX]) for the given npa-nxx resides on this switching module.

**Attribute:**
s_animod
**Fullname:**
secondary ANI table switching module
**Attribute Description:**
For future use.
The secondary copy of the outbound services ANI table (RLldpindx/RLanidx[XXX]) for the given npa-nxx resides on this switching module. This copy is read if unable to access the primary copy. The secondary switching module must be different from the primary switching module

**Attribute:**
anitbl
**Fullname:**
automatic number identification table index
**Attribute Description:**
Used as one of the indexes into the outbound services ANI table (RLldpindx/RLanidx[XXX]).

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# ANNC_APL

## 1. Description

This relation contains the announcement application list by SM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 7 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
ANNC_APL    relid = 817   DBSTATIC   DBACC_LIN   DBPRAM    LP      RCMAP


     appl         DMANNC_APL    (enum: 4) <--- key
     dummy        DMUNS6        (ushort: 6)
     sm1          DMMODULE      (ushort: 8)
     sm2          DMMODULE      (ushort: 8)
     sm3          DMMODULE      (ushort: 8)
     sm4          DMMODULE      (ushort: 8)
     sm5          DMMODULE      (ushort: 8)
     sm6          DMMODULE      (ushort: 8)
     sm7          DMMODULE      (ushort: 8)
     sm8          DMMODULE      (ushort: 8)
     sm9          DMMODULE      (ushort: 8)
     sm10         DMMODULE      (ushort: 8)
     sm11         DMMODULE      (ushort: 8)
     sm12         DMMODULE      (ushort: 8)
     sm13         DMMODULE      (ushort: 8)
     sm14         DMMODULE      (ushort: 8)
     sm15         DMMODULE      (ushort: 8)
     sm16         DMMODULE      (ushort: 8)
     sm17         DMMODULE      (ushort: 8)
     sm18         DMMODULE      (ushort: 8)
     sm19         DMMODULE      (ushort: 8)
     sm20         DMMODULE      (ushort: 8)
     sm21         DMMODULE      (ushort: 8)
     sm22         DMMODULE      (ushort: 8)
     sm23         DMMODULE      (ushort: 8)
     sm24         DMMODULE      (ushort: 8)
     sm25         DMMODULE      (ushort: 8)
         User, Compacted and Stored Tuple Layout   ANNC_APL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |       |           |           |               |               |
  0 |  appl |   dummy   |***********|      sm1      |      sm2      |
```

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```
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |      sm3      |      sm4      |      sm5      |      sm6      |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  8 |      sm7      |      sm8      |      sm9      |      sm10     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 12 |      sm11     |      sm12     |      sm13     |      sm14     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 16 |      sm15     |      sm16     |      sm17     |      sm18     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 20 |      sm19     |      sm20     |      sm21     |      sm22     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 24 |      sm23     |      sm24     |      sm25     |***************|
    |---------------+---------------+---------------+---------------|
       ( 28 bytes )
```

## 4. Population rules for RLannc_apl

### Relation Description

announcement application

```
/*****************************************************************
 *
 *      POPULATION RULES FOR <<<< RLannc_apl >>>>
 *
 *      This relation specifies the SMs which are populated with RAF/SAS
 *      Automated Announcement data for a given application and SM.
 *      The announcement relations (RLannc_hdr, RLannc_trl,
 *      RLannc_dig, RLssp_ann, and RLras_idp ) may or may not have tuples
 *      corresponding to a particular application and SM according
 *      to the following rules. For every SM listed in RLannc_apl
 *      for a given application, the announcement data should be
 *      redundantly populated (except in a Growth scenario).
 *      For any SM which is not listed for a given application, population
 *      of the previous relations is not allowed on that SM until the
 *      SM is added to the application tuple in this relation.
 *
 *      This relation is used for cross checking by recent change and ODA.
 *
 *
 *      Attribute
 *      ---------
 * key  appl            DESCR: application
 *                      RANGE: One of the enum values defined in db/DMannc_ap
l.G
 *                      DEFAULT: None
 *
 *      sm1             DESCR: SM
```

```
 *      .               RANGE: 0 - 192
 *      .               At least one non-zero entry must be specified.
 *      .               The end of the SMs is denoted by a zero (0)
 *      .               entry which MUST be present in each tuple. No
 *      sm25            non-zero entries can exist after this entry.
 *                      SM list should be populated in numerically
 *                      increasing order.
 *                      DEFAULT: 0
 *
 ***********************************************************************/


"RLANNC_APL is an AM relation. It should be used by
 recent change to determine what population is allowed
 for a given application.
"
```

**Attribute:**
appl
**Fullname:**
application
**Attribute Description:**

```
 *      FCOSPS_DA
 *      FCOSPS_TA
 *      FCBRCS_RAS
 *      FCISDN_ACSR
 *      FCPVN_CA
 *      FCLASS_SLE
 *      FCLS_2LEVEL
        FCL2_OSPSTA
        FCL3_OSPSTA
        FCL4_OSPSTA
        FCL5_OSPSTA
        FCL6_OSPSTA
        FCL7_OSPSTA
        FCTOLL_ACCT
        FCVARRAF
```

**Attribute:**
dummy
**Fullname:**
dummy not used
**Attribute Description:**
dummy, not used

**Attribute:**
sm[*]
**Fullname:**
switching module number
**Attribute Description:**

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```
*       sm1
*       .
*       .       At least one non-zero entry must be specified.
*       .       The end of the SMs is denoted by a zero (0)
*       .       entry which MUST be present in each tuple. No
*       sm25    non-zero entries can exist after this entry.
*               SM list should be populated in numerically
*               increasing order.
```

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# ANNC_DIG

## 1. Description

This relation contains the announcement digit inflection scheme.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
ANNC_DIG    relid = 752   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     appl        DMANNC_APL   (enum: 4) <--- key
     infl_id     DMANNC_ID    (ulong: 17) <--- key
     dur         DMUNS8       (ushort: 8)
     dummy       DMUNS3       (ushort: 3)
     inflct01    DMINFLDEF    (enum: 8)
     inflct02    DMINFLDEF    (enum: 8)
     inflct03    DMINFLDEF    (enum: 8)
     inflct04    DMINFLDEF    (enum: 8)
     inflct05    DMINFLDEF    (enum: 8)
     inflct06    DMINFLDEF    (enum: 8)
     inflct07    DMINFLDEF    (enum: 8)
     inflct08    DMINFLDEF    (enum: 8)
     inflct09    DMINFLDEF    (enum: 8)
     inflct10    DMINFLDEF    (enum: 8)
     inflct11    DMINFLDEF    (enum: 8)
     inflct12    DMINFLDEF    (enum: 8)
     inflct13    DMINFLDEF    (enum: 8)
     inflct14    DMINFLDEF    (enum: 8)
     inflct15    DMINFLDEF    (enum: 8)
     inflct16    DMINFLDEF    (enum: 8)
     inflct17    DMINFLDEF    (enum: 8)
     inflct18    DMINFLDEF    (enum: 8)
     inflct19    DMINFLDEF    (enum: 8)
     inflct20    DMINFLDEF    (enum: 8)
     inflct21    DMINFLDEF    (enum: 8)
     inflct22    DMINFLDEF    (enum: 8)
     inflct23    DMINFLDEF    (enum: 8)
     inflct24    DMINFLDEF    (enum: 8)
     inflct25    DMINFLDEF    (enum: 8)
     inflct26    DMINFLDEF    (enum: 8)
     inflct27    DMINFLDEF    (enum: 8)
     inflct28    DMINFLDEF    (enum: 8)
     inflct29    DMINFLDEF    (enum: 8)
     inflct30    DMINFLDEF    (enum: 8)
     inflct31    DMINFLDEF    (enum: 8)
```

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```
inflct32    DMINFLDEF    (enum: 8)
inflct33    DMINFLDEF    (enum: 8)
inflct34    DMINFLDEF    (enum: 8)
inflct35    DMINFLDEF    (enum: 8)
inflct36    DMINFLDEF    (enum: 8)
inflct37    DMINFLDEF    (enum: 8)
inflct38    DMINFLDEF    (enum: 8)
inflct39    DMINFLDEF    (enum: 8)
inflct40    DMINFLDEF    (enum: 8)
inflct41    DMINFLDEF    (enum: 8)
inflct42    DMINFLDEF    (enum: 8)
inflct43    DMINFLDEF    (enum: 8)
inflct44    DMINFLDEF    (enum: 8)
inflct45    DMINFLDEF    (enum: 8)
inflct46    DMINFLDEF    (enum: 8)
inflct47    DMINFLDEF    (enum: 8)
inflct48    DMINFLDEF    (enum: 8)
inflct49    DMINFLDEF    (enum: 8)
inflct50    DMINFLDEF    (enum: 8)
```

User, Compacted and Stored Tuple Layout ANNC_DIG

| | 3 2 1 0 | 3 2 1 0 9 8 7 6 5 4 3 2 1 0 | 3 2 1 0 9 8 7 6 5 4 3 2 1 0 | 3 2 1 0 9 8 7 6 5 4 3 2 1 0 |
|---|---|---|---|---|
| 0 | appl | infl_id | dur | dummy |
| 4 | inflct01 | inflct02 | inflct03 | inflct04 |
| 8 | inflct05 | inflct06 | inflct07 | inflct08 |
| 12 | inflct09 | inflct10 | inflct11 | inflct12 |
| 16 | inflct13 | inflct14 | inflct15 | inflct16 |
| 20 | inflct17 | inflct18 | inflct19 | inflct20 |
| 24 | inflct21 | inflct22 | inflct23 | inflct24 |
| 28 | inflct25 | inflct26 | inflct27 | inflct28 |
| 32 | inflct29 | inflct30 | inflct31 | inflct32 |
| 36 | inflct33 | inflct34 | inflct35 | inflct36 |

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```
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 40 |    inflct37   |    inflct38   |    inflct39   |    inflct40   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 44 |    inflct41   |    inflct42   |    inflct43   |    inflct44   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 48 |    inflct45   |    inflct46   |    inflct47   |    inflct48   |
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
 52 |    inflct49   |    inflct50   |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 56 bytes )
```

## 4. Population rules for RLannc_dig

### Relation Description

Announcement digit inflection scheme

```
/*****************************************************************
 *
 *      POPULATION RULES FOR  RLannc_dig
 *
 *      This relation is not to be populated for export applications.
 *
 *
 *
 *      Attribute
 *      ---------
 * key  appl            DESCR: application
 *                      RANGE: One of the enum values defined in
 *                             db/DMannc_apl.G
 *                      DEFAULT: None
 *
 * key  infl_id         DESCR: inflection id (scheme)
 *                      RANGE: 1-255
 *                      This inflection ID is specified by software,
 *                      so the inflection IDs assigned must correspond
 *                      to software defined values.
 *                      DEFAULT: None
 *
 *      dur             DESCR: expected duration of digit string (rounded up
 *                      to nearest second)
 *                      RANGE: 1-255 (in seconds)
 *                      See the following for its calculation.
 *                      DEFAULT: None
 *
 *      dummy           DESCR: dummy field used only for alignment of tuple
 *                      RANGE: 0
 *                      DEFAULT: 0
 *
```

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```
 *      infltc01        DESCR: inflection command or phrase
 *        .             RANGE: One of the enum values defined in
 *        .                    db/DMinfldef.G
 *        .             EXCEPT FC_8BIT_CMD and FC_TERM (see domain
 *        .             definition for value definitions).
 *        .             At least one non-zero entry must be specified.
 *        .             The end of the inflection commands/phrases is
 *        .             denoted by the FC_END (0) entry which MUST be
 *        .             present in each tuple. No non-zero entries can
 *        .             exist after this entry.
 *      inflct50
 *                      DEFAULT: FC_END
 *
 *
 ************************************************************************/
```

DESCRIPTION:

Defines the digit inflection scheme to be applied to OSPS Directory Assistance (DA) listing numbers played to the customer.
In general, the inflection ID is equal to the number of digits in the telephone
listing (with one exception).
Announcements are stored in firmware.

QUANTITY OF TUPLES:

One tuple is required for each digit string of a given length and one additional for N00-NXX-XXXX numbers (Toll Free, etc).

TUPLE SEMANTICS for FCOSPS_DA:

| appl | infl_id | dur | dummy | inflct01 - inflct50 |
|---|---|---|---|---|
| FCOSPS_DA | 3 | 3 | 0 | FC_OH FC_FLAT FC_FLAT FC_FALLING FC_END |
| FCOSPS_DA | 4 | 4 | 0 | FC_OH FC_FLAT FC_FLAT FC_FLAT FC_FALLING FC_HUND_THOUS FC_END |
| FCOSPS_DA | 7 | 8 | 0 | FC_OH RC_FLAT FC_FLAT FC_FALLING FC_HALF_SEC FC_FLAT FC_FLAT FC_FLAT FC_FALLING FC_HUND_THOUS FC_END |
| FCOSPS_DA | 10 | 13 | 0 | FC_OH FC_AREA_CODE FC_FLAT FC_FLAT FC_FALLING FC_HALF_SEC FC_FLAT FC_FLAT FC_FALLING FC_HALF_SEC FC_FLAT FC_FLAT FC_FLAT FC_FALLING FC_HUND_THOUS FC_END |
| FCOSPS_DA | 100 | 12 | 0 | FC_OH FC_FLAT FC_FLAT FC_FALLING FC_C100 FC_HALF_SEC FC_FLAT |

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```
                                FC_FLAT FC_FALLING FC_HALF_SEC
                                FC_FLAT FC_FLAT FC_FLAT
                                FC_FALLING FC_HUND_THOUS FC_END

*************************************************************************/


 DESCRIPTION:

Defines the digit inflection scheme to be used for Automated Calling
Card Service (ACCS).

 QUANTITY OF TUPLES:

        2 tuples are required as listed here.

 TUPLE SEMANTICS for FCOSPS_TA:


appl      infl_id  dur  dummy   inflct01 - inflct50
-------------------------------------------------------------
FCOSPS_TA     2     2     0     FC_OH FC_FLAT FC_FALLING FC_END

FCOSPS_TA     3     3     0     FC_FLAT FC_FLAT FC_FALLING FC_END


/*************************************************************************


        DESCRIPTION:

        Defines the digit inflection scheme to be used for Automated
        Coin nd Toll Service (ACTS).

        QUANTITY OF TUPLES:

        20 tuples are required as listed here.

        TUPLE SEMANTICS for FCOSPS_TA:


        appl      infl_id  dur  dummy   inflct01 - inflct50
        ------------------------------------------------------------
        FCOSPS_TA   101     3     0     FC_TWO_DIG FC_PH83 FC_END

        FCOSPS_TA   102     3     0     FC_TWO_DIG FC_PH84 FC_END

        FCOSPS_TA   103     7     0     FC_TWO_DIG FC_PH83 FC_PH106
                                        FC_TWO_DIG FC_PH88 FC_END

        FCOSPS_TA   104     7     0     FC_TWO_DIG FC_PH84 FC_PH106
                                        FC_TWO_DIG FC_PH88 FC_END
```

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```
FCOSPS_TA   105     3     0     FC_TWO_DIG FC_PH88 FC_END

FCOSPS_TA   106     3     0     FC_TWO_DIG FC_PH85 FC_END

FCOSPS_TA   107     3     0     FC_TWO_DIG FC_PH86 FC_END

FCOSPS_TA   108     7     0     FC_TWO_DIG FC_PH83 FC_PH106
                                FC_TWO_DIG FC_PH90 FC_END

FCOSPS_TA   109     7     0     FC_TWO_DIG FC_PH84 FC_PH106
                                FC_TWO_DIG FC_PH90 FC_END

FCOSPS_TA   110     3     0     FC_TWO_DIG FC_PH90 FC_END

FCOSPS_TA   111     3     0     FC_TWO_DIG FC_PH95 FC_END

FCOSPS_TA   112     3     0     FC_TWO_DIG FC_PH96 FC_END

FCOSPS_TA   113     7     0     FC_TWO_DIG FC_PH95 FC_PH106
                                FC_TWO_DIG FC_PH92 FC_END

FCOSPS_TA   114     7     0     FC_TWO_DIG FC_PH96 FC_PH106
                                FC_TWO_DIG FC_PH92 FC_END

FCOSPS_TA   115     3     0     FC_TWO_DIG FC_PH92 FC_END

FCOSPS_TA   116     3     0     FC_TWO_DIG FC_PH97 FC_END

FCOSPS_TA   117     3     0     FC_TWO_DIG FC_PH98 FC_END

FCOSPS_TA   118     7     0     FC_TWO_DIG FC_PH95 FC_PH106
                                FC_TWO_DIG FC_PH94 FC_END

FCOSPS_TA   119     7     0     FC_TWO_DIG FC_PH96 FC_PH106
                                FC_TWO_DIG FC_PH94 FC_END

FCOSPS_TA   120     3     0     FC_TWO_DIG FC_PH94 FC_END

FCOSPS_TA   121     2     0     FC_TWO_DIG FC_PH89 FC_END

FCOSPS_TA   122     7     0     FC_TWO_DIG FC_PH83 FC_PH106
                                FC_TWO_DIG FC_PH89 FC_END

FCOSPS_TA   123     7     0     FC_TWO_DIG FC_PH84 FC_PH106
                                FC_TWO_DIG FC_PH89 FC_END

FCOSPS_TA   124     3     0     FC_FLAT FC_HUNDRED FC_PH86
                                FC_END

FCOSPS_TA   125     7     0     FC_FLAT FC_HUNDRED FC_PH84
                                FC_PH106 FC_TWO_DIG FC_PH89
                                FC_END

FCOSPS_TA   126     7     0     FC_FLAT FC_HUNDRED FC_PH84
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                                        FC_PH106 FC_TWO_DIG FC_PH90
                                        FC_END

FCOSPS_TA   127     5     0     FC_FLAT FC_HUNDRED
                                  FC_TWO_DIG FC_PH86 FC_END

FCOSPS_TA   128     9     0     FC_FLAT FC_HUNDRED
                                  FC_TWO_DIG FC_PH84 FC_PH106
                                  FC_TWO_DIG FC_PH89 FC_END

FCOSPS_TA   129     9     0     FC_FLAT FC_HUNDRED
                                  FC_TWO_DIG FC_PH84 FC_PH106
                                  FC_TWO_DIG FC_PH90 FC_END

FCOSPS_TA   130     3     0     FC_FLAT FC_THOUSAND FC_PH86
                                  FC_END

FCOSPS_TA   131     7     0     FC_FLAT FC_THOUSAND FC_PH84
                                  FC_PH106 FC_TWO_DIG FC_PH89
                                  FC_END

FCOSPS_TA   132     7     0     FC_FLAT FC_THOUSAND FC_PH84
                                  FC_PH106 FC_TWO_DIG FC_PH90
                                  FC_END

FCOSPS_TA   133     5     0     FC_FLAT FC_THOUSAND
                                  FC_TWO_DIG FC_PH86 FC_END

FCOSPS_TA   134     9     0     FC_FLAT FC_THOUSAND
                                  FC_TWO_DIG FC_PH84 FC_PH106
                                  FC_TWO_DIG FC_PH89 FC_END

FCOSPS_TA   135     9     0     FC_FLAT FC_THOUSAND
                                  FC_TWO_DIG FC_PH84 FC_PH106
                                  FC_TWO_DIG FC_PH90 FC_END

FCOSPS_TA   136     5     0     FC_FLAT FC_THOUSAND FC_FLAT
                                  FC_HUNDRED FC_PH86 FC_END

FCOSPS_TA   137     9     0     FC_FLAT FC_THOUSAND FC_FLAT
                                  FC_HUNDRED FC_PH84 FC_PH106
                                  FC_TWO_DIG FC_PH89 FC_END

FCOSPS_TA   138     9     0     FC_FLAT FC_THOUSAND FC_FLAT
                                  FC_HUNDRED FC_PH84 FC_PH106
                                  FC_TWO_DIG FC_PH90 FC_END

FCOSPS_TA   139     7     0     FC_FLAT FC_THOUSAND FC_FLAT
                                  FC_HUNDRED FC_TWO_DIG
                                  FC_PH86 FC_END

FCOSPS_TA   140    11     0     FC_FLAT FC_THOUSAND FC_FLAT
                                  FC_HUNDRED FC_TWO_DIG
                                  FC_PH84 FC_PH106 FC_TWO_DIG
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                                        FC_PH89 FC_END

FCOSPS_TA   141    11     0     FC_FLAT FC_THOUSAND FC_FLAT
                                FC_HUNDRED FC_TWO_DIG
                                FC_PH84 FC_PH106 FC_TWO_DIG
                                FC_PH90 FC_END

FCOSPS_TA   142     3     0     FC_TWO_DIG FC_PH91 FC_END

FCOSPS_TA   143     3     0     FC_TWO_DIG FC_PH94 FC_END

FCOSPS_TA   144     3     0     FC_TWO_DIG FC_PH95 FC_END

FCOSPS_TA   145     7     0     FC_TWO_DIG FC_PH95 FC_PH106
                                FC_TWO_DIG FC_PH93 FC_END

FCOSPS_TA   146     7     0     FC_TWO_DIG FC_PH95 FC_PH106
                                FC_TWO_DIG FC_PH94 FC_END

FCOSPS_TA   147     3     0     FC_TWO_DIG FC_PH98 FC_END

FCOSPS_TA   148     7     0     FC_TWO_DIG FC_PH96 FC_PH106
                                FC_TWO_DIG FC_PH93 FC_END

FCOSPS_TA   149     7     0     FC_TWO_DIG FC_PH96 FC_PH106
                                FC_TWO_DIG FC_PH94 FC_END

FCOSPS_TA   150     3     0     FC_TWO_DIG FC_PH176 FC_END

FCOSPS_TA   151     7     0     FC_TWO_DIG FC_PH175 FC_PH106
                                FC_TWO_DIG FC_PH93 FC_END

FCOSPS_TA   152     7     0     FC_TWO_DIG FC_PH175 FC_PH106
                                FC_TWO_DIG FC_PH98 FC_END

FCOSPS_TA   153     7     0     FC_TWO_DIG FC_PH175 FC_PH106
                                FC_TWO_DIG FC_PH97 FC_END

FCOSPS_TA   154    10     0     FC_TWO_DIG FC_PH175 FC_TWO_DIG
                                FC_PH95 FC_PH106 FC_TWO_DIG
                                FC_PH93 FC_END

FCOSPS_TA   155    10     0     FC_TWO_DIG FC_PH175 FC_TWO_DIG
                                FC_PH95 FC_PH106 FC_TWO_DIG
                                FC_PH94 FC_END

FCOSPS_TA   156     7     0     FC_TWO_DIG FC_PH175 FC_PH106
                                FC_TWO_DIG FC_PH98 FC_END

FCOSPS_TA   157    10     0     FC_TWO_DIG FC_PH175 FC_TWO_DIG
                                FC_PH96 FC_PH106 FC_TWO_DIG
                                FC_PH93 FC_END

FCOSPS_TA   158    10     0     FC_TWO_DIG FC_PH175 FC_TWO_DIG
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                                        FC_PH96 FC_PH106 FC_TWO_DIG
                                        FC_PH94 FC_END

FCOSPS_TA   159     3     0     FC_TWO_DIG FC_PH178 FC_END

FCOSPS_TA   160     7     0     FC_TWO_DIG FC_PH177 FC_PH106
                                        FC_TWO_DIG FC_PH93 FC_END

FCOSPS_TA   161     7     0     FC_TWO_DIG FC_PH177 FC_PH106
                                        FC_TWO_DIG FC_PH94 FC_END

FCOSPS_TA   162     7     0     FC_TWO_DIG FC_PH177 FC_PH106
                                        FC_TWO_DIG FC_PH97 FC_END

FCOSPS_TA   163     10    0     FC_TWO_DIG FC_PH177 FC_TWO_DIG
                                        FC_PH95 FC_PH106 FC_TWO_DIG
                                        FC_PH93 FC_END

FCOSPS_TA   164     10    0     FC_TWO_DIG FC_PH177 FC_TWO_DIG
                                        FC_PH95 FC_PH106 FC_TWO_DIG
                                        FC_PH94 FC_END

FCOSPS_TA   165     7     0     FC_TWO_DIG FC_PH177 FC_PH106
                                        FC_TWO_DIG FC_PH98 FC_END

FCOSPS_TA   166     10    0     FC_TWO_DIG FC_PH177 FC_TWO_DIG
                                        FC_PH96 FC_PH106 FC_TWO_DIG
                                        FC_PH93 FC_END

FCOSPS_TA   167     10    0     FC_TWO_DIG FC_PH177 FC_TWO_DIG
                                        FC_PH96 FC_PH106 FC_TWO_DIG
                                        FC_PH94 FC_END
FCOSPS_TA   168     1     0     FC_FALLING FC_END
FCOSPS_TA   169     2     0     FC_FLAT FC_FALLING FC_END
FCOSPS_TA   170     3     0     FC_FLAT FC_FLAT FC_FALLING FC_END
FCOSPS_TA   171     4     0     FC_FLAT FC_FLAT FC_FLAT
                                        FC_FALLING FC_END
FCOSPS_TA   172     5     0     FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FALLING FC_END
FCOSPS_TA   173     6     0     FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FALLING FC_END
FCOSPS_TA   174     7     0     FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FALLING FC_END
FCOSPS_TA   175     8     0     FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT
                                        FC_FALLING FC_END
FCOSPS_TA   176     9     0     FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FALLING FC_END
FCOSPS_TA   177    10     0     FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FALLING FC_END
FCOSPS_TA   178    11     0     FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
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                                        FC_FLAT FC_FLAT FC_FALLING FC_END
        FCOSPS_TA   179    12     0     FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT
                                        FC_FALLING FC_END
        FCOSPS_TA   180    13     0     FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FALLING FC_END
        FCOSPS_TA   181    14     0     FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FALLING FC_END
        FCOSPS_TA   182    15     0     FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FALLING FC_END
        FCOSPS_TA   183    16     0     FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT
                                        FC_FALLING FC_END
        FCOSPS_TA   184    17     0     FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FALLING FC_END
        FCOSPS_TA   185    18     0     FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FALLING FC_END
        FCOSPS_TA   186    19     0     FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FLAT FC_FLAT
                                        FC_FLAT FC_FLAT FC_FALLING FC_END

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Population for Remote Access Services (RAS)

DESCRIPTION:

Defines the digit inflection scheme to be applied to collected digit strings and directory numbers played to the customer. In general, the inflection ID is equal to the number of digits collected by RAS (with one exception).

QUANTITY OF TUPLES:

One tuple is required for each digit string of a given length,

```
one tuple for N00-NXX-XXXX numbers (Toll Free, etc), one tuple
is required for 10-XXX-XXX-XXX-XXXX (CI calls) and one tuple
is required for 1-N00-NXX-XXXX (Toll Free calls).

TUPLE SEMANTICS for FCBRCS_RAS:


special inflection scheme for N00-NXX-XXXX numbers (such as Toll Free):

appl            - FCBRCS_RAS
infl_id         - 100
dur             - (as calculated in the rc-oda rules section)
inflct01        - listing inflection scheme
   .              (specified by office or see the following)
inflct50

special inflection scheme for 10-XXX-XXX-XXX-XXXX numbers (CI calls):

appl            - FCBRCS_RAS
infl_id         - 101
dur             - (as calculated in the rc-oda rules section)
inflct01        - listing inflection scheme
   .              (specified by office or see the following)
inflct50

special inflection scheme for 1-N00-NXX-XXXX numbers (such as Toll Free):

appl            - FCBRCS_RAS
infl_id         - 102
dur             - (as calculated in the rc-oda rules section)
inflct01        - listing inflection scheme
.                 (specified by office or see the following)
inflct50

-------------------------------------------------------------------------
appl          infl_id  dur    dummy             inflct01 - inflct50
-------------------------------------------------------------------------

FCBRCS_RAS        1     1       0       FC_FALLING, FC_END

FCBRCS_RAS        2     2       0       FC_FLAT, FC_FALLING, FC_END

FCBRCS_RAS        3     3       0       FC_FLAT, FC_FLAT, FC_FALLING,
                                        FC_END

FCBRCS_RAS        4     4       0       FC_OH, FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_HUND_THOUS, FC_END

FCBRCS_RAS        5     5       0       FC_OH, FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FALLING,
                                        FC_HUND_THOUS, FC_END

FCBRCS_RAS        6     7       0       FC_OH, FC_FLAT, FC_FALLING,
                                        FC_HALF_SEC, FC_FLAT, FC_FLAT,
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                                                FC_FLAT, FC_FALLING,
                                                FC_HUND_THOUS, FC_END

        FCBRCS_RAS        7     8       0       FC_OH, FC_FLAT, FC_FLAT,
                                                FC_FALLING, FC_HALF_SEC, FC_FLA
T,
                                                FC_FLAT, FC_FLAT, FC_FALLING,
                                                FC_HUND_THOUS, FC_END

        FCBRCS_RAS        8     9       0       FC_FALLING, FC_HALF_SEC, FC_OH,
                                                FC_FLAT, FC_FLAT, FC_FALLING,
                                                FC_HALF_SEC, FC_FLAT, FC_FLAT,
                                                FC_FLAT, FC_FALLING,
                                                FC_HUND_THOUS, FC_END

        FCBRCS_RAS        9    10       0       FC_FLAT, FC_OH, FC_FALLING,
                                                FC_HALF_SEC, FC_FLAT, FC_FLAT,
                                                FC_FALLING, FC_HALF_SEC, FC_FLAT,
                                                FC_FLAT, FC_FLAT, FC_FALLING,
                                                FC_HUND_THOUS, FC_END

        FCBRCS_RAS       10    13       0       FC_AREA_CODE, FC_FLAT, FC_OH,
                                                FC_FLAT, FC_FALLING, FC_C100,
                                                FC_HALF_SEC, FC_FLAT, FC_FLAT,
                                                FC_FALLING, FC_HALF_SEC, FC_FLAT,
                                                FC_FLAT, FC_FLAT, FC_FALLING,
                                                FC_HUND_THOUS, FC_END

        FCBRCS_RAS       11    14       0       FC_FLAT, FC_AREA_CODE, FC_FLAT,
                                                FC_OH, FC_FLAT, FC_FALLING,
                                                FC_C100, FC_HALF_SEC, FC_FLAT,
                                                FC_FLAT, FC_FALLING, FC_HALF_SEC,
                                                FC_FLAT, FC_FLAT, FC_FLAT,
                                                FC_FALLING, FC_HUND_THOUS, FC_END

        FCBRCS_RAS       12    14       0       FC_FLAT, FC_FLAT, FC_FALLING,
                                                FC_HALF_SEC, FC_OH, FC_FLAT,
                                                FC_FALLING, FC_HALF_SEC, FC_FLAT,
                                                FC_FLAT, FC_FALLING, FC_HALF_SEC,
                                                FC_FLAT, FC_FLAT, FC_FLAT,
                                                FC_FALLING, FC_HUND_THOUS, FC_END

        FCBRCS_RAS       13    15       0       FC_FLAT, FC_FLAT, FC_FALLING,
                                                FC_HALF_SEC, FC_OH, FC_FLAT,
                                                FC_FALLING, FC_HALF_SEC, FC_FLAT,
                                                FC_FLAT, FC_FALLING, FC_HALF_SEC,
                                                FC_FLAT, FC_FLAT, FC_FLAT,
                                                FC_FLAT, FC_FALLING,
                                                FC_HUND_THOUS, FC_END

        FCBRCS_RAS       14    16       0       FC_FLAT, FC_FLAT, FC_FALLING,
                                                FC_HALF_SEC, FC_OH, FC_FLAT,
                                                FC_FALLING, FC_HALF_SEC, FC_FLAT,
                                                FC_FLAT, FC_FALLING, FC_HALF_SEC,
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                                        FC_FLAT, FC_FALLING, FC_HALF_SEC,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_HUND_THOUS, FC_END

FCBRCS_RAS      15    19      0         FC_FLAT, FC_OH, FC_FALLING,
                                        FC_HALF_SEC, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_HALF_SEC,
                                        FC_AREA_CODE, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_C100, FC_HALF_SEC,
                                        FC_FLAT, FC_FLAT, FC_FALLING,
                                        FC_HALF_SEC, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FALLING,
                                        FC_HUND_THOUS, FC_END

FCBRCS_RAS      16    22      0         FC_FLAT, FC_FALLING, FC_OH,
                                        FC_FALLING, FC_HALF_SEC, FC_FLAT,
                                        FC_FLAT, FC_FALLING, FC_HALF_SEC,
                                        FC_FALLING, FC_HALF_SEC,
                                        FC_AREA_CODE, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_C100, FC_HALF_SEC,
                                        FC_FLAT, FC_FLAT, FC_FALLING,
                                        FC_HALF_SEC, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FALLING,
                                        FC_HUND_THOUS, FC_END

FCBRCS_RAS      17    17      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT,FC_FALLING, FC_END

FCBRCS_RAS      18    18      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FALLING,
                                        FC_END

FCBRCS_RAS      19    19      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_END

FCBRCS_RAS      20    20      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
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                                        FC_FLAT, FC_FALLING, FC_END

FCBRCS_RAS      21    21      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT,FC_FALLING,
                                        FC_END

FCBRCS_RAS      22    22      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_END

FCBRCS_RAS      23    23      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FALLING, FC_END

FCBRCS_RAS      24    24      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FALLING,
                                        FC_END

FCBRCS_RAS      25    25      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_END

FCBRCS_RAS      26    26      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
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                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FALLING, FC_END

FCBRCS_RAS      27    27      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FALLING,
                                        FC_END

FCBRCS_RAS      28    28      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_END

FCBRCS_RAS      29    29      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FALLING, FC_END

FCBRCS_RAS      30    30      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FALLING,
                                        FC_END

FCBRCS_RAS      31    31      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
```

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```
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_END

FCBRCS_RAS       32    32       0       FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FALLING, FC_END

FCBRCS_RAS      100    12       0       FC_OH, FC_AREA_CODE, FC_FLAT,
                                        FC_FLAT, FC_FALLING, FC_C100,
                                        FC_HALF_SEC, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_HALF_SEC, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FALLING,
                                        FC_HUND_THOUS, FC_END

FCBRCS_RAS      101    19       0       FC_OH, FC_FLAT, FC_FALLING,
                                        FC_HALF_SEC, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_HALF_SEC,
                                        FC_AREA_CODE, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_C100, FC_HALF_SEC,
                                        FC_FLAT, FC_FLAT, FC_FALLING,
                                        FC_HALF_SEC, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FALLING,
                                        FC_HUND_THOUS, FC_END

FCBRCS_RAS      102    14       0       FC_OH, FC_FLAT, FC_AREA_CODE,
                                        FC_FLAT, FC_FLAT, FC_FALLING,
                                        FC_C100, FC_HALF_SEC, FC_FLAT,
                                        FC_FLAT, FC_FALLING, FC_HALF_SEC,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_HUND_THOUS, FC_END


**************************************************************************/
/**************************************************************************
 *
 *      Population for Automatic Customer Station Rearrangement (ACSR)
 *
 *
 * DESCRIPTION:
 *
 *      Defines the digit inflection scheme to be applied to collected
```

```
         *      digit strings and directory numbers played to the customer.
         *      In general, the inflection ID is equal to the number of digits
         *      collected by ACSR.
         *
         * QUANTITY OF TUPLES:
         *
         *      One tuple is required for each digit string of a given length
         *      for NXX-XXXX numbers.
         *
         * TUPLE SEMANTICS for FCISDN_ACSR:
         *
         *
         *      ------------------------------------------------------------------
-----
         *         appl       infl_id  dur    dummy     inflct01 - inflct50
         *      ------------------------------------------------------------------
-----
         *
         *      FCISDN_ACSR       1     1       0       FC_FALLING, FC_END
         *
         *      FCISDN_ACSR       2     2       0       FC_FLAT, FC_FALLING, FC_END
         *
         *      FCISDN_ACSR       3     3       0       FC_FLAT, FC_FLAT, FC_FALLING,
         *                                              FC_END
         *
         *      FCISDN_ACSR       4     4       0       FC_FLAT, FC_FLAT, FC_FLAT,
         *                                              FC_FALLING, FC_END
         *
         *      FCISDN_ACSR       5     5       0       FC_FLAT, FC_FLAT, FC_FLAT,
         *                                              FC_FLAT, FC_FALLING, FC_END
         *
         *      FCISDN_ACSR       6     6       0       FC_FLAT, FC_FLAT, FC_FLAT,
         *                                              FC_FLAT, FC_FLAT, FC_FALLING,
         *                                              FC_END
         *
         *      FCISDN_ACSR       7     7       0       FC_FLAT, FC_FLAT, FC_FLAT,
         *                                              FC_FLAT, FC_FLAT, FC_FLAT,
         *                                              FC_FALLING, FC_END
         *
         *      FCISDN_ACSR      10     10      0       FC_FLAT, FC_FLAT, FC_FLAT,
         *                                              FC_FLAT, FC_FLAT, FC_FLAT,
         *                                              FC_FLAT, FC_FLAT, FC_FLAT,
         *                                              FC_FALLING, FC_END
         *
         * ************************************************************************
*/

        /************************************************************************

        Population for Screen List Editing (SLE)


         DESCRIPTION:
```

Defines the digit inflection scheme to be applied to collected digit strings and directory numbers played to the customer. In general, the inflection ID is equal to the number of digits collected.

QUANTITY OF TUPLES:

One tuple is required for each digit string of a given length.

TUPLE SEMANTICS for FCLASS_SLE:

| appl | infl_id | dur | dummy | inflct01 - inflct50 |
|---|---|---|---|---|
| FCLASS_SLE | 1 | 1 | 0 | FC_OH, FC_FALLING, FC_END |
| FCLASS_SLE | 2 | 2 | 0 | FC_OH, FC_FLAT, FC_FALLING, FC_END |
| FCLASS_SLE | 3 | 3 | 0 | FC_OH, FC_FLAT, FC_FLAT, FC_FALLING, FC_END |
| FCLASS_SLE | 4 | 4 | 0 | FC_OH, FC_FLAT, FC_FLAT, FC_FLAT, FC_FALLING, FC_HUND_THOUS, FC_END |
| FCLASS_SLE | 5 | 5 | 0 | FC_OH, FC_FLAT, FC_FLAT, FC_FLAT, FC_FLAT, FC_FALLING, FC_HUND_THOUS, FC_END |
| FCLASS_SLE | 6 | 7 | 0 | FC_OH, FC_FLAT, FC_FALLING, FC_HALF_SEC, FC_FLAT, FC_FLAT, FC_FLAT, FC_FALLING, FC_HUND_THOUS, FC_END |
| FCLASS_SLE | 7 | 8 | 0 | FC_OH, FC_FLAT, FC_FLAT, FC_FALLING, FC_HALF_SEC, FC_FLAT, FC_FLAT, FC_FLAT, FC_FALLING, FC_HUND_THOUS, FC_END |
| FCLASS_SLE | 8 | 9 | 0 | FC_OH, FC_FALLING, FC_HALF_SEC, FC_FLAT, FC_FLAT, FC_FALLING, FC_HALF_SEC, FC_FLAT, FC_FLAT, FC_FLAT, FC_FALLING, FC_HUND_THOUS, FC_END |
| FCLASS_SLE | 9 | 10 | 0 | FC_OH, FC_FLAT, FC_FALLING, FC_HALF_SEC, FC_FLAT, FC_FLAT, FC_FALLING, FC_HALF_SEC, FC_FLAT, |

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```
                                        FC_FLAT, FC_FLAT, FC_FALLING,
                                        FC_HUND_THOUS, FC_END

FCLASS_SLE      10    13      0         FC_FLAT, FC_OH,
                                        FC_FLAT, FC_FALLING, FC_C100,
                                        FC_HALF_SEC, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_HALF_SEC, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FALLING,
                                        FC_HUND_THOUS, FC_END

FCLASS_SLE      11    14      0         FC_FLALLING, FC_HALF_SEC,
                                        FC_OH, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_C100,
                                        FC_HALF_SEC, FC_FLAT,
                                        FC_FLAT, FC_FALLING,
                                        FC_HALF_SEC, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FALLING,
                                        FC_HUND_THOUS, FC_END

FCLASS_SLE      12    14      0         FC_OH, FC_FLAT, FC_FALLING,
                                        FC_HALF_SEC, FC_FLAT,
                                        FC_FLAT, FC_FALLING,
                                        FC_HALF_SEC, FC_FLAT,
                                        FC_FLAT, FC_FALLING, FC_HALF_SEC,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_HUND_THOUS, FC_END

FCLASS_SLE      13    15      0         FC_OH, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_HALF_SEC,
                                        FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_HALF_SEC,
                                        FC_FLAT, FC_FLAT, FC_FALLING,
                                        FC_HALF_SEC, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FALLING,
                                        FC_HUND_THOUS, FC_END

FCLASS_SLE      14    16      0         FC_OH, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FALLING,
                                        FC_HALF_SEC, FC_FLAT,
                                        FC_FLAT, FC_FALLING,
                                        FC_HALF_SEC, FC_FLAT,
                                        FC_FLAT, FC_FALLING, FC_HALF_SEC,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_HUND_THOUS, FC_END

FCLASS_SLE      15    19      0         FC_OH, FC_FLAT, FC_FALLING,
                                        FC_HALF_SEC, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_HALF_SEC,
                                        FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_C100, FC_HALF_SEC,
                                        FC_FLAT, FC_FLAT, FC_FALLING,
                                        FC_HALF_SEC, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FALLING,
                                        FC_HUND_THOUS, FC_END
```

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```
FCLASS_SLE      16    22      0       FC_OH, FC_FLAT, FC_FLAT,
                                      FC_FALLING, FC_HALF_SEC,
                                      FC_FLAT, FC_FLAT, FC_FALLING,
                                      FC_HALF_SEC, FC_FLAT,
                                      FC_FLAT, FC_FALLING,
                                      FC_C100, FC_HALF_SEC,
                                      FC_FLAT, FC_FLAT, FC_FALLING,
                                      FC_HALF_SEC, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FALLING,
                                      FC_HUND_THOUS, FC_END

FCLASS_SLE      17    17      0       FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT,FC_FALLING, FC_END

FCLASS_SLE      18    18      0       FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FALLING,
                                      FC_END

FCLASS_SLE      19    19      0       FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FALLING, FC_END

FCLASS_SLE      20    20      0       FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FALLING, FC_END

FCLASS_SLE      21    21      0       FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT, FC_FLAT,
                                      FC_FLAT, FC_FLAT,FC_FALLING,
                                      FC_END

FCLASS_SLE      22    22      0       FC_FLAT, FC_FLAT, FC_FLAT,
```

```
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_END

FCLASS_SLE      23    23      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FALLING, FC_END

FCLASS_SLE      24    24      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FALLING,
                                        FC_END

FCLASS_SLE      25    25      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_END

FCLASS_SLE      26    26      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FALLING, FC_END

FCLASS_SLE      27    27      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
```

```
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FALLING,
                                        FC_END

FCLASS_SLE      28    28      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_END

FCLASS_SLE      29    29      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FALLING, FC_END

FCLASS_SLE      30    30      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FALLING,
                                        FC_END

FCLASS_SLE      31    31      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_END

FCLASS_SLE      32    32      0         FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
```

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```
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FALLING, FC_END

/*************************************************************************/


/*************************************************************************

Population for Two-Level Activation of Customer Originated Trace (COT)
        and Automatic Callback (AC).


DESCRIPTION:

Defines the digit inflection scheme to be applied to collected
digit strings and directory numbers played to the customer.
In general, the inflection ID is equal to the number of digits
collected.

QUANTITY OF TUPLES:

One tuple is required for each digit string of a given length.

TUPLE SEMANTICS for FCLS_2LEVEL:


   appl       infl_id  dur    dummy             inflct01 - inflct50
-------------------------------------------------------------------------

FCLS_2LEVEL       1     1       0       FC_OH, FC_FALLING, FC_END


FCLS_2LEVEL       2     2       0       FC_OH, FC_FLAT, FC_FALLING,
                                        FC_END

FCLS_2LEVEL       3     3       0       FC_OH, FC_FLAT, FC_FLAT,
                                        FC_FALLING, FC_END

FCLS_2LEVEL       4     4       0       FC_OH, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FALLING,
                                        FC_HUND_THOUS, FC_END


FCLS_2LEVEL       5     5       0       FC_OH, FC_FLAT, FC_FLAT,
                                        FC_FLAT, FC_FLAT, FC_FALLING,

                                        FC_HUND_THOUS, FC_END
```

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```
        FCLS_2LEVEL       6     7       0       FC_OH, FC_FLAT, FC_FALLING,
                                                FC_HALF_SEC, FC_FLAT,
                                                FC_FLAT, FC_FLAT, FC_FALLING,

                                                FC_HUND_THOUS, FC_END


        FCLS_2LEVEL       7     8       0       FC_OH, FC_FLAT, FC_FLAT,
                                                FC_FALLING,  FC_HALF_SEC,
                                                FC_FLAT, FC_FLAT, FC_FLAT,
                                                FC_FALLING,
                                                FC_HUND_THOUS, FC_END



        FCLS_2LEVEL       10    11      0       FC_FLAT, FC_OH,
                                                FC_FLAT, FC_FALLING, FC_C100,
                                                FC_HALF_SEC, FC_FLAT, FC_FLAT,
                                                FC_FALLING, FC_HALF_SEC, FC_FLAT,
                                                FC_FLAT, FC_FLAT, FC_FALLING,
                                                FC_HUND_THOUS, FC_END

        /*************************************************************************/
```

**Attribute: appl**

**Fullname:** application

**Attribute Description:** application

**Attribute: infl_id**

**Fullname:** inflection id

**Attribute Description:** This inflection ID is calculated by software so the inflection IDs assigned must correspond to software defined values.

**Attribute: dur**

**Fullname:** expected duration of digit string.

**Attribute Description:** expected duration of digit string (rounded up to nearest second).

**Attribute: dummy**

**Fullname:** dummy

**Attribute Description:** dummy field used only for alignment of tuple.

**Attribute: inflct[*]**

**Fullname:** inflection command or phrase

**Attribute Description:** At least one non-zero entry must be specified. The end of the inflection commands/phrases is denoted by the FC_END (0) entry which MUST be present in each tuple. No non-zero entries can exist after this entry. inflct50

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# ANNC_HDR

## 1. Description

This relation contains the announcement header phrase list.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 64000 |
| expected number of tuples | 1000 |
| density | 94 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| tsbal | DBSPEED |
| permutation type | un_perm |

## 3. Field Layout

```
ANNC_HDR    relid = 753   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     appl        DMANNC_APL   (enum: 4) <--- key
     hdr_id      DMANNC_ID    (ulong: 17)       <--- key
     spare1      DMUNL11      (ulong: 11)
     dur         DMANNC_DUR   (ulong: 19)
     spare2      DMUNS13      (ushort: 13)
     phrase1     DMPHRASE     (ushort)
     phrase2     DMPHRASE     (ushort)
     phrase3     DMPHRASE     (ushort)
     phrase4     DMPHRASE     (ushort)
     phrase5     DMPHRASE     (ushort)
     phrase6     DMPHRASE     (ushort)
     phrase7     DMPHRASE     (ushort)
     phrase8     DMPHRASE     (ushort)
     phrase9     DMPHRASE     (ushort)
     phrase10    DMPHRASE     (ushort)
     phrase11    DMPHRASE     (ushort)
     phrase12    DMPHRASE     (ushort)
     phrase13    DMPHRASE     (ushort)
     phrase14    DMPHRASE     (ushort)
     phrase15    DMPHRASE     (ushort)
     phrase16    DMPHRASE     (ushort)
     phrase17    DMPHRASE     (ushort)
     phrase18    DMPHRASE     (ushort)
     phrase19    DMPHRASE     (ushort)
     phrase20    DMPHRASE     (ushort)
     phrase21    DMPHRASE     (ushort)
     phrase22    DMPHRASE     (ushort)
     phrase23    DMPHRASE     (ushort)
     phrase24    DMPHRASE     (ushort)
     phrase25    DMPHRASE     (ushort)
     phrase26    DMPHRASE     (ushort)
     phrase27    DMPHRASE     (ushort)
     phrase28    DMPHRASE     (ushort)
     phrase29    DMPHRASE     (ushort)
```

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```
    phrase30    DMPHRASE     (ushort)
    phrase31    DMPHRASE     (ushort)
    phrase32    DMPHRASE     (ushort)
    phrase33    DMPHRASE     (ushort)
    phrase34    DMPHRASE     (ushort)
    phrase35    DMPHRASE     (ushort)
    phrase36    DMPHRASE     (ushort)
    phrase37    DMPHRASE     (ushort)
    phrase38    DMPHRASE     (ushort)
    phrase39    DMPHRASE     (ushort)
    phrase40    DMPHRASE     (ushort)
    phrase41    DMPHRASE     (ushort)
    phrase42    DMPHRASE     (ushort)
    phrase43    DMPHRASE     (ushort)
    phrase44    DMPHRASE     (ushort)
    phrase45    DMPHRASE     (ushort)
    phrase46    DMPHRASE     (ushort)
    phrase47    DMPHRASE     (ushort)
    phrase48    DMPHRASE     (ushort)
    phrase49    DMPHRASE     (ushort)
    phrase50    DMPHRASE     (ushort)
    phrase51    DMPHRASE     (ushort)
    phrase52    DMPHRASE     (ushort)
    phrase53    DMPHRASE     (ushort)
    phrase54    DMPHRASE     (ushort)
    phrase55    DMPHRASE     (ushort)
    phrase56    DMPHRASE     (ushort)
    phrase57    DMPHRASE     (ushort)
    phrase58    DMPHRASE     (ushort)
    phrase59    DMPHRASE     (ushort)
    phrase60    DMPHRASE     (ushort)
    phrase61    DMPHRASE     (ushort)
    phrase62    DMPHRASE     (ushort)
    phrase63    DMPHRASE     (ushort)
    phrase64    DMPHRASE     (ushort)
    phrase65    DMPHRASE     (ushort)
    phrase66    DMPHRASE     (ushort)
    phrase67    DMPHRASE     (ushort)
    phrase68    DMPHRASE     (ushort)
        User, Compacted and Stored Tuple Layout   ANNC_HDR
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |       |                                 |                       |
 0 |  appl |              hdr_id             |        spare1         |
   |---------------+---------------+---------------+---------------|
   |                                         |                       |
 4 |                 dur                     |          spare2       |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |            phrase1            |            phrase2            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |            phrase3            |            phrase4            |
```

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```
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                               |                               |
136 |            phrase65           |            phrase66           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
140 |            phrase67           |            phrase68           |
    |---------------+---------------+---------------+---------------|
       ( 144 bytes )
```

## 4. Population rules for RLannc_hdr

### Relation Description

announcement header phrase list

```
/*************************************************************************
 *
 *      POPULATION RULES FOR <<<< RLannc_hdr >>>>
 *
 *
 *
 *      Attribute
 *      ---------
 * key  appl            DESCR:
 *                      RANGE: One of the enum values defined
 *                      in db/DMannc_apl.G
 *                      DEFAULT: None
 *
 * key  hdr_id          DESCR:.
 *                      RANGE: 1-131071
 *                      DEFAULT: None
 *
 *      spare1          DESCR: field used for spare
 *                      RANGE: 0
 *                      DEFAULT: 0
 *
 *      dur             DESCR:
 *                      RANGE: 0-7200 (seconds, or 2 hours)
 *                      See the following for its calculation
 *                      DEFAULT: None
 *
 *      spare2          DESCR: field used for spare and for alignment of tupl
e
 *                      RANGE: 0
 *                      DEFAULT: 0
 *
 *      phrase1         DESCR:
 *        .             RANGE: 0-16383, 16385-16389, 16500-MAXPHRASEID
 *                             (NOTE: NOT 16384!)
 *        .             At least one non-zero entry must be specified.
```

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```
 *        .             The end of the phrases is denoted by a zero (0)
 *        .             entry which MUST be present in each tuple. No
 *        .             non-zero entries can exist after this entry.
 *      phrase68
 *                      These values are defined as follows:
 *
 *                      PHRASEX         DESCRIPTION
 *                      -------         -----------
 *
 *                        0             Defines logical end of Phrase list
 *                       1-46           Digit-string related Phrase IDs
 *                                      (see RLPHRASES Pop Rules)
 *                       47-16383       Application Defined Phrase IDs
 *                       16385          Command - Insert a digit string here
 *                       16386          Command - Repeat the previous digit
 *                                                string here
 *                       16387          Command - date of last incoming call
 *                       16388          Command - time of last incoming call
 *                       16389          Command - number of dollars and cents
 *                       16500-16599    Application-Specific Commands
 *                                      These are defined by applications to
 *                                      have certain meanings. All of these
 *                                      are treated EXACTLY as is 16385.
 *                       16600-MAXPHRASEID  Application Defined Phrase IDs
 *
 *                       NOTE: (MAXPHRASEID+1)-65535 are NOT used for
 *                       phrase IDs but for subsystem specific purposes.
 *
 *                      DEFAULT: 0
 ************************************************************************/
```

DESCRIPTION:

Population for OSPS Directory Assistance (DA)

Defines the information portion of a Directory Assistance (DA) listing announcement. One header must be defined for each Announcement Type specified by the Directory Assistance System/ Computer (DAS/C).

NOTE: For DA announcements, the following application-specific commands are recognized:

```
 16385          Command - Insert a digit string here

 16386          Command - Repeat the previous digit
                          string here
```

QUANTITY OF TUPLES:

14 tuples per SM.

TUPLE SEMANTICS for FCOSPS_DA:

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```
appl            - FCOSPS_DA
hdr_id          - 1
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
                        52,30,26,16385,28,16386,28,27   ]
phrase68


appl            - FCOSPS_DA
hdr_id          - 2
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
  .                     52,31,26,16385,28,16386,28,32,26
  .                     16385,28,16386,28               ]
phrase68


appl            - FCOSPS_DA
hdr_id          - 3
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
  .                     52,46,28,27                     ]
phrase68


appl            - FCOSPS_DA
hdr_id          - 4
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
  .                     52,35,27,29,27,16385,27,37      ]
phrase68


appl            - FCOSPS_DA
hdr_id          - 5
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
  .                     52,36,27,29,27,16385,27,38      ]
phrase68


appl            - FCOSPS_DA
hdr_id          - 6
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
  .                     52,33,26,16385,28,16386,28,27   ]
phrase68


appl            - FCOSPS_DA
hdr_id          - 7
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
```

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```
  .                    52,39,26,16385,28,16386,28,27   ]
phrase68


appl            - FCOSPS_DA
hdr_id          - 8
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
  .                    52,40,26,16385,28,16386,28,27   ]
phrase68


appl            - FCOSPS_DA
hdr_id          - 9
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
  .                    52,41,27,30,26,16385,28,16386,
  .                    28,27                           ]
phrase68


appl            - FCOSPS_DA
hdr_id          - 10
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
  .                    52,42,27,30,26,16385,28,16386,
  .                    28,27                           ]
phrase68


appl            - FCOSPS_DA
hdr_id          - 11
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
  .                    52,43,27,30,26,16385,28,16386,
  .                    28,27                           ]
phrase68


appl            - FCOSPS_DA
hdr_id          - 12
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
  .                    52,44,27,30,26,16385,28,16386,
  .                    28,27                           ]
phrase68


appl            - FCOSPS_DA
hdr_id          - 13
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
  .                    52,50,26,16385,28,51,27,16386,
  .                    28,27                           ]
```

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```
phrase68


appl            - FCOSPS_DA
hdr_id          - 14
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
  .                     52                              ]
phrase68

appl            - FCOSPS_DA
hdr_id          - 23
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
  .                     ] This hdr can be filled in by the customer
                          using the recent change view 8.61.  Use
                          the phrases available on the RAF equipment
                          (MC5D144A1) or SAS circuit packs.
phrase68

*************************************************************************/

/*************************************************************************
Population for OSPS Automated Calling Card Service
Announcements (ACCS)

Note:
If the Thank You [branding phrase] announcement is to
be given, the global parameter GLin_thnku must equal DBYES,
otherwise no announcement is given for the ACCS Initial call.

There are two Thank You announcements which can be given,
announcement #5 or #16 listed in the following:

Announcement #5 (hdr_id = 5) should contain only the
Thank You phrase.
TUPLE SEMANTICS:
appl     - FCOSPS_TA
hdr_id   - 5
dur      - (as calculated by Recent Change)
phrase1  - 52 (Thank You phrase ID)

Announcement #16 (hdr_id = 16) should contain the
Thank you for using phrase plus the branding phrase,
which is one of the following:
AT&T
Northwestern Bell
Ohio Bell
New Jersey Bell
Wisconsin Telephone
C&P
Your Local Telephone Company
United Telephone
New York Telephone
```

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```
New England Telephone
S.N.E.T
Cincinnati Bell
U.S. West Communications
Pacific Bell
Nevada Bell
Whidbey Telephone Company
Roseville Telephone
Illinois Bell
Michigan Bell
Southwestern Bell
Rochester Telephone

TUPLE SEMANTICS:
appl     - FCOSPS_TA
hdr_id   - 16
dur      - (as calculated by Recent Change)
phrase1  - (Thank you for using phrase ID)
phrase2  - (correct branding phrase ID)

The wording and the IDs of all the phrases are contained in
the RLphrases relation in the AM.

The conditions that determine which Thank You announcement
are explained in the following. These checks are performed
in the OA call processing code and are not to be enforced in
ODA or RC code.

announcement #5 given when:
GLin_thnku = DBYES and GLbranding = DBNO
or GLin_thnku = DBYES and GLbranding = DBYES and

GLoftyp = DBYES and carrier id of call does not equal AT&T
                or
GLoftyp = DBNO and carrier id of call equals AT&T

or GLin_thnku = DBYES and GLbranding = DBYES and
GLoftyp = DBYES and carrier id of call equals AT&T
                or
 GLoftyp = DBNO and carrier id of call equals LEC
                and
the call is a Directory Assistance call and
GLdabrand = DBNO

announcement #16 given when:
GLin_thnku = DBYES and GLbranding = DBYES and

 GLoftyp = DBYES and carrier id of call equals AT&T
        or
 GLoftyp = DBNO and carrier id of call equals LEC
         and
the call is not a Directory Assistance call
or GLin_thnku = DBYES and GLbranding = DBYES and
```

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```
 GLoftyp = DBYES and carrier id of call equals AT&T
        or
 GLoftyp = DBNO and carrier id of call equals LEC
        and
 GLoftyp = carrier ID of call and

the call is a Directory Assistance call and
GLdabrand = DBYES


If the Thank You announcement is to be given for ACCS
Sequence calls, the global parameter GLseq_thnku must equal
DBYES, otherwise no announcement is given.  When the parameter
is set (GLseq_thnku = DBYES), only announcement #5 is given.
Tuple semantics same as the previous for hdr_id=5.

Note:
The announcement headers #39 and #40 should only be populated
if the Front-End Branding Secured Feature has been purchased.
If it has been purchased, the Audible Logo phrase ID is determined
at the time the Customized TN1054 ASC packs are made, and is used
in announcement headers #39 and #40.

The announcement header #149 should only be populated if the PLBQ
Business/Residential Promotional Card Secure Feature has been
purchased.  If the feature has been purchased, the Time Balance
Quotation phrase ID(s) is/are determined at the time that the
customized packs are made and are used in announcement header
149.

The conditions that determine which prompt announcement is
given are explained in the followint. These checks are performed
in the OA call processing code and are not to be enforced in
ODA or RC code.

announcement #1 is given when:
        prompt treatment is tone plus prompt
                and
        Secure Feature #15 (Front-End Branding) is not activated
                or
        Glbranding = DBNO
                or
        Glofcar != carrier of call
                or
        carrier of call is not AT&T or LEC

announcement #26 is given when:
        prompt treatment is tone only
                and
        Secure Feature #15 (Front-End Branding) is not activated
                or
        Glbranding = DBNO
                or
        Glofcar != carrier of call
```

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```
                or
        carrier of call is not AT&T or LEC

announcement #39 is given when:
        Secure Feature #15 (Front-End Branding) is activated
                and
        Glbranding = DBYES
                and
        Glofcar = carrier of call
                and
        carrier of call is AT&T or LEC
                and
        prompt treatment is tone only

        Announcement #39 (hdr_id = 39) should contain the 'bong'
        and 'Audible Logo' phrase.
        'Audible Logo' and prompt phrase.
        TUPLE SEMANTICS:
            appl     - FCOSPS_TA
            hdr_id   - 40
            dur      - (as calculated by Recent Change)
            phrase1  - 79 ('bong' phrase ID)
            phrase2  - ?? ('Audible Logo' phrase ID determined when
                           the customized announcement is made)
            phrase3  - 28 ('pause' phrase ID)
            phrase4  - 47 ('Please dial your card number' phrase ID)
            phrase5  - 48 ('or zero for an operator now' phrase ID)

        Announcement Header IDs 241 through 300 are to be used
        as customized announcements for the PLBQ Business/Residential
        Card feature.  IDs 241 through 270 will be used by the
        customer to create announcements that will be used as part
        of or instead of the balance quotation.  Ids 271 through 300
        will be used to create announcements that will be used
        instead of the standard disconnect warning announcements.


/*************************************************************************

Population for OSPS Toll and Assistance (OSPSTA)


NOTE:   For OSPSTA announcements, the following application-specific
commands are recognized:

 16500          Command - Insert a CREDIT digit
                          string
 16501          Command - Insert a CHARGE DUE digit
                          string
 16502          Command - Insert a CALL DURATION digit
                          string
 16503          Command - Insert an AMOUNT digit
                          string
 16504          Command - Insert a CARRIER Branding phrase
```

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```
Whenever a new hdr_id is added to RLannc_hdr.R for FCOSPS_TA,
the same information should be added to RLalt_hdr.R.


  QUANTITY OF TUPLES:

  137 tuples per SM.


  TUPLE SEMANTICS for FCOSPS_TA:


appl            - FCOSPS_TA
hdr_id          - 1
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Prompt announcement on a customer-dialed ACCS
   .              call using the tone plus prompt announcement
   .              treatment
   .              [ recommended utterances:
   .                     79,28,47,48                    ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 2
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              A customer dialing error has occurred on a
   .              customer-dialed ACCS call.
   .              [ recommended utterances:
   .                     47,49,28,50                    ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 3
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Prompt announcement after an error has
   .              occurred, and the alerting tone has been given.
   .              [ recommended utterances:
   .                     80                             ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 4
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
```

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```
   .             for the ACCS phrase for:
   .             An invalid ACCS number was entered and the
   .             error threshold has been reached; the customer
   .             must hang up and reoriginate the call.
   .             [ recommended utterances:
   .                    51,28,50                      ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 5
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the ACCS phrase for:
   .             Acknowledgement announcement after database
   .             reply for non-AT&T calls, (non-branding).
   .             [ recommended utterances:
   .                    52                            ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 6
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the ACCS phrase for:
   .             A customer dialing error has occurred on a
   .             customer-dialed ACCS sequence call.
   .             [ recommended utterances:
   .                    53,49,28,54                   ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 7
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the ACCS phrase for:
   .             Prompt announcement after an error has
   .             occurred on a sequence call, and the alerting
   .             tone has been given.
   .             [ recommended utterances:
   .                    55                            ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 8
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the ACCS phrase for:
   .             An invalid called number was entered and the
   .             error threshold has been reached.  The
   .             customer must hang up and reoriginate the call.
```

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```
   .              [ recommended utterances:
   .                    51,28,56                        ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 9
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Termination announcement after error
   .              threshold has been reached, without another
   .              number being entered.
   .              [ recommended utterances:
   .                    51                              ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 10
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Reply to an inward, non-OSPS validation:
   .              valid ACCS number, unrestricted PIN, known RAO.
   .              [ recommended utterances:
   .                    57,59,61,16385                  ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 11
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Reply to an inward, non-OSPS validation:
   .              valid ACCS number, restricted PIN, RAO known.
   .              [ recommended utterances:
   .                    57,60,61,16385                  ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 12
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Reply to an inward non-OSPS validation:  valid
   .              ACCS number, unrestricted PIN, unknown RAO.
   .              [ recommended utterances:
   .                    57,59,61,62                     ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 13
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Reply to an inward, non-OSPS validation:
   .              invalid ACCS number.
   .              [ recommended utterances:
   .                    58,63                          ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 14
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Reply to an inward, non-OSPS validation:
   .              invalid ACCS number, error threshold reached.
   .              [ recommended utterances:
   .                    58,64                          ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 15
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Error announcement given to customers who dial
   .              a new forward number which is restricted as a
   .              sequence call.
   .              [ recommended utterances:
   .                    65,28,66                       ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 16
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Acknowledgement announcement after database
   .              reply for branding.
   .              [ recommended utterance:
   .                    155,126                        ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 17
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
```

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```
   .             Prompt announcement on an ACCS sequence call
   .             where the initial call was an AT&T call.
   .             [ recommended utterances:
   .                    68,69,71                        ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 18
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the ACCS phrase for:
   .             Error announcement after entering local phone
   .             company called number when AT&T call has
   .             already been completed.
   .             [ recommended utterances:
   .                    72,81                           ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 19
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the ACCS phrase for:
   .             Prompt announcement on an ACCS sequence call
   .             when the initial call was a local phone
   .             company call.
   .             [ recommended utterances:
   .                    68,70,71                        ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 20
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the ACCS phrase for:
   .             Error announcement after entering AT&T called
   .             number when local phone company call has
   .             already been completed.
   .             [ recommended utterances:
   .                    72,82                           ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 21
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the ACCS phrase for:
   .             Termination announcement if TCA option
   .             specifies failure announcement when no
   .             response  is received from the external
```

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```
   .             database.
   .             [ recommended utterances:
   .                    73,28,74                        ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 22
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the ACCS phrase for:
   .             NCD rejection for CAMA, 1+ACQS, and calling
   .             card calls.
   .             [ recommended utterances:
   .                    75,2,27,9,24,27,7,5,17,27,1,1,1,17]
phrase68


appl           - FCOSPS_TA
hdr_id         - 23
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the ACCS phrase for:
   .             NCD 'allow' inward validation phrase
   .             [ recommended utterances:
   .                    76                              ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 24
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the ACCS phrase for:
   .             NCD 'denied' inward validation phrase
   .             [ recommended utterances:
   .                    77                              ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 25
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the ACCS phrase for:
   .             Prompt announcement on an ACCS sequence call
   .             where carrier is other than LEC or AT&T.
   .             [ recommended utterances:
   .                    78                              ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 26
```

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```
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Prompt announcement on an ACCS call where the
   .              customer prompt announcement is only a tone.
   .              [ recommended utterances:
   .                     79                              ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 27
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              AT&T Card/LEC call 'First Chance' CAS
   .              rejection announcement.
   .              [ recommended utterances:
   .                     138,139,141,142,28,134,148,137  ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 28
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              LEC Card/AT&T call 'First Chance' CAS
   .              rejection announcement.
   .              [ recommended utterance:
   .                     138,209,141,143,28,134,148,137 ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 29
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              AT&T Card/LEC call 'Second Chance'
   .              rejection announcement.
   .              [ recommended utterances:
   .                     144,142,28,134,148,137          ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 30
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              LEC Card/AT&T call 'Second Chance'
   .              rejection announcement.
   .              [ recommended utterances:
```

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```
   .                    144,143,28,134,136,137          ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 31
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              'First Chance' CAS rejection for geographic
   .              restrictions on sequence calls.
   .              [ recommended utterances:
   .                    145,28,210                      ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 32
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              'Second Chance' CAS rejection for geographic
   .              restrictions on sequence calls.
   .              [ recommended utterances:
   .                    144,142,28,210                  ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 33
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              'Allow' reply to a CAS inward, non-OSPS
   .              validation.
   .              [ recommended utterances:
   .                    153                             ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 34
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Speed Dialing Disabled, Threshold Not Exceeded.
   .              [ recommended utterances:
   .                    150,28,211                      ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 35
dur             - (as calculated using the following duration rules)
```

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```
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Reply to a CAS 'denied' inward validation for
   .              LEC Cards, AT&T carried call.
   .              [ recommended utterances:
   .                     152,138,49                    ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 36
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Reply to a CAS 'denied' inward validation for
   .              LEC Cards, AT&T carried call; error threshold
   .              reached.
   .              [ recommended utterances:
   .                     152,64                        ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 37
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Repoly to an inward non-OSPS validation: valid
   .              ACCS number, restricted PIN, unknown RAO.
   .              [ recommended utterances:
   .                     57,60,61,62                   ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 38
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Error announcement given to customers who dial
   .              a Sub-account billing-I call from a restricted
   .              station.
   .              [ recommended utterances:
   .                     156,26,157                    ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 39
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Prompt announcement on an ACCS call where the
   .              customer prompt announcement is 'tone, audible logo'
```

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```
   .              [ recommended utterances:
   .                     79,14000       ]


appl            - FCOSPS_TA
hdr_id          - 40
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Prompt announcement on a customer-dialed ACCS
   .              call using the 'tone, audible logo, prompt
   .              announcement' treatment
   .              [ recommended utterances:
   .                     79,14000,28,47,48       ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 41
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Error announcement given to DIOR customers who
   .              have dialed a forward number that was not allowed
   .              as a sequence call.
   .              [ recommended utterances:
   .                     51,28,66                      ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 42
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the MECH phrase for:
   .              Unbranded holding announcement given to
   .              customers when a call released for MECH
   .              treatment has received forward party
   .              answer but no operator is available to
   .              service the call.
   .              [ recommended utterances:
   .                    160,162,161                    ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 43
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the MECH phrase for:
   .              Branded holding announcement given to
   .              customers when a call released for MECH
   .              treatment has received forward party
   .              answer but no operator is available to
```

```
   .              service the call. The branded default
   .              utterances are the same as the unbranded
   .              announcement since the customer must
   .              specify the appropriate branding
   .              information.
   .              [ recommended utterances:
   .                    160,162,161                    ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 44
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Error announcement given when the service requested
   .              is not provided by the OSPS; such as, automated inward
   .              validation of CCC cards.
   .              [ recommended utterances:
   .                     212,27,64                     ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 45
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Error announcement given on the first attempt when the
   .              dialed calling card cannot be used for the specific
   .              service requested.
   .              [ recommended utterances:
   .                     213,27,138,214          ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 46
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Error announcement given on the second attempt when
   .              the dialed calling card cannot be used for the
   .              specific service requested.
   .              [ recommended utterances:
   .                     213,27,51                     ]
phrase68
```

**5. ANNC_HDR Population rules continued.**

```
appl            - FCOSPS_TA
hdr_id          - 47
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
```

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```
   .             for the ACCS phrase for:
   .             Error announcement given to the caller used to
   .             prompt them to enter their PIN.
   .             [ recommended utterances:
   .                    215                          ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 48
dur            - (as calculated using the previous pop rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the ACCS phrase for:
   .             Error announcement given when the dialed calling
   .             card is rejected for credit-related reasons.
   .             [ recommended utterances:
   .                    210,28,216             ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 49
dur            - (as calculated using the previous pop rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             used by the Voice Messaging Service
   .             Interface (VMSI) capability to inform the caller,
   .             when the proper VMSI service code and access code
   .             have been entered, that the call will proceed
   .             with normal ACCS processing.
   .             [ recommended utterances:
   .                    121,26,160             ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 50
dur            - (as calculated using the previous pop rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the ACCS phrase for:
   .             Prompt announcement on a customer-dialed AATOS/
   .             SDN NRA call for requesting the customer to dial a
   .             calling card number.
   .             [ recommended utterances:
   .                    79,28,47,48            ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 51
dur            - (as calculated using the previous pop rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the ACCS phrase for:
   .             Prompt announcement on a customer-dialed
   .             AATOS/SDN NRA call for requesting the customer
```

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```
   .             to dial a forward number.
   .             [ recommended utterances:
   .                    14000,26,53,48          ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 52
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
  .              for the VMSI R3 phrase for:
  .              Prompt announcement used by VMSI R3 when the
  .              customer dialed forward number is in the
  .              busy state.
  .              [ recommended utterances:
  .               if microcode 5D172A1, 5D172A2 or 5D172A3
  .               exists in RLraf_mbd
                       260,262,26,278,275,283,2,14,
                       26,285                          ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 53
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
  .              for the VMSI R3 feature phrase for:
  .              Prompt announcement used by VMSI R3 when the
  .              forward party does not answer.
  .              [ recommended utterances:
  .               if microcode 5D172A1, 5D172A2 or 5D172A3
  .               exists in RLraf_mbd
                       264,26,278,275,283,2,14,26,
                       285                             ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 54
dur            - (as calculated using the previous poprules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the ACCS phrase for:
   .             Prompt announcement on an automated initial
   .             DIOR call for requesting the customer to
   .             dial a forward number.
   .             [ recommended utterances:
  .               if microcode 5D172A1, 5D172A2 or 5D172A3
  .               exists in RLraf_mbd
   .                    14000,26,289,27,53,48           ]
phrase68



appl           - FCOSPS_TA
hdr_id         - 55
```

```
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for feature Specialized Handling for 700 calls:
   .              Error announcement given to customers when
   .              the specialized services cannot be provided.
   .              [ recommended utterances:
   .                   145,28,134,157          ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 56
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ECUT phrase for:
   .              Initial Card Recognition Failure Announcement
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                     304,207,305,27,50       ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 57
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ECUT phrase for:
   .              Initial Contract Failure Announcement
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                     138,290,305,27,134,148,137 ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 58
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ECUT phrase for:
   .              Initial Inverse Contract Failure Announcement
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                     138,291,207,305,27,134,148,137 ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 59
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the CDBS Sequence Dialing phrase for:
   .              CDBS Sequence Call PIN prompt
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
```

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```
   .                    292,293                ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 60
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the CDBS Sequence Dialing phrase for:
   .              CDBS Sequence Call PIN error prompt
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                     294,137,27,292,293      ]
phrase68



appl            - FCOSPS_TA
hdr_id          - 61
dur             - (as calculated using the following duration rules)
phrase01        - Warning announcement for termination due to
   .              a depleted balance: used to provide the
   .              disconnect warning announcement for 5E8
   .              Purchase Limits calls before being forcibly
   .              disconnected
   .              [ recommended utterances:
   .                     14066,27,14067,14068,40,94   ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 62
dur             - (as calculated using the following duration rules)
phrase01        - Error report and termination announcement:
   .              used to provide termination treatment for
   .              Purchase Limits calls due to:
   .              - CAS PL replies indicating balance depleted
   .                and call in progress
   .              - RTRS replies indicating insufficient
   .                balance or query failure
   .              [ recommended utterances:
   .                     14067,73,27,14077,28,28,28   ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 63
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the OSPS 900 feature phrase for:
   .              Paid Billing Denied for OSPS 900 Calls
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                     144,142,27,298,299,300,301 ]
```

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```
phrase68


appl            - FCOSPS_TA
hdr_id          - 64
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the OSPS 900 feature phrase for:
   .              All Billing Denied for OSPS 900 Calls
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                     74,27,299,300,302,303 ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 65
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Independent Company Announcement
   .              Branding feature to provide Independent
   .              Company (ICO) branding for 0+ intra-LATA calls.
   .              For an intra-LATA carrier eligible for
   .              branding, the caller will hear this phrase
   .              initially.
   .              [ recommended utterances:
   .                     79 ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 66
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Independent Company Announcement
   .              Branding feature to provide Independent
   .              Company (ICO) branding for 0+ intra-LATA calls.
   .              For an intra-LATA carrier eligible for
   .              branding, the caller will hear this phrase
   .              after successful card validation.
   .              [ recommended utterances:
   .                     155  ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 67
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 1 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
```

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```
   .                    and/or custom phrases. ]
phrase68


appl             - FCOSPS_TA
hdr_id           - 68
dur              - (as calculated using the previous pop rules)
phrase01         - Announcement Header Phrase IDs/Commands
   .               for the Customized Market Announcements
   .               feature used to provide branding announcements
   .               on automated calls. (This is header 2 of 20)
   .               [ recommended utterances:
   .                      customer defined using standard
   .                      and/or custom phrases. ]
phrase68


appl             - FCOSPS_TA
hdr_id           - 69
dur              - (as calculated using the previous pop rules)
phrase01         - Announcement Header Phrase IDs/Commands
   .               for the Customized Market Announcements
   .               feature used to provide branding announcements
   .               on automated calls. (This is header 3 of 20)
   .               [ recommended utterances:
   .                      customer defined using standard
   .                      and/or custom phrases. ]
phrase68


appl             - FCOSPS_TA
hdr_id           - 70
dur              - (as calculated using the previous pop rules)
phrase01         - Announcement Header Phrase IDs/Commands
   .               for the Customized Market Announcements
   .               feature used to provide branding announcements
   .               on automated calls. (This is header 4 of 20)
   .               [ recommended utterances:
   .                      customer defined using standard
   .                      and/or custom phrases. ]
phrase68


appl             - FCOSPS_TA
hdr_id           - 71
dur              - (as calculated using the previous pop rules)
phrase01         - Announcement Header Phrase IDs/Commands
   .               for the Customized Market Announcements
   .               feature used to provide branding announcements
   .               on automated calls. (This is header 5 of 20)
   .               [ recommended utterances:
   .                      customer defined using standard
   .                      and/or custom phrases. ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 72
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 6 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 73
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 7 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 74
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 8 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 75
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 9 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 76
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 10 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 77
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 11 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 78
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 12 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 79
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 13 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 80
```

```
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 14 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 81
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 15 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 82
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 16 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 83
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 17 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 84
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
```

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```
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 18 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 85
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 19 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 86
dur             - (as calculated using the previous pop rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customized Market Announcements
   .              feature used to provide branding announcements
   .              on automated calls. (This is header 20 of 20)
   .              [ recommended utterances:
   .                     customer defined using standard
   .                     and/or custom phrases. ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 87
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              This announcement is for the Completion of
   .              Inter-LATA Calls Accessing Directory Assistance
   .              (CICADA) - Automated Announcement Prompt
   .              Special Feature.  ACCS Directory Assistance
   .              callers will be offered call completion of the
   .              retrieved number via this CICADA announcement.
   .              [recommended utterances:
   .                    customer defined using standard
   .                    and/or custom phrases   ]
phrase68


appl            - FCOSPS_TA
```

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```
hdr_id          - 88
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Calling and Enhanced Called Number Restrictions
   .              Feature. Restrictions are placed on On-Net
   .              credit card calls originating from particular
   .              calling stations. This announcement is given
   .              on the first or second attempt on Called Number
   .              Restrictions (CDNR) of an initial call to indicate
   .              the caller must hang up and arrange other billing.
   .              [recommended utterances:
   .                    144, 142, 28, 210      ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 89
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Calling and Enhanced Called Number Restrictions
   .              Feature.  Restrictions are placed on On-Net credit
   .              card calls originating from particular calling
   .              stations.  This announcement will be given on the
   .              first attempt of a sequence call with Called Number
   .              Restrictions (CDNR) to inform the caller
   .              that the call cannot be billed to the card.
   .              [recommended utterances:
   .                    145, 28, 210      ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 90
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              Calling and Enhanced Called Number Restrictions
   .              Feature. Restrictions are placed on On-Net credit
   .              card calls originating from particular calling
   .              stations.  This announcement will be given on initial
   .              and sequence calls with Calling Number
   .              Restrictions (CGNR) to inform the caller that the
   .              call cannot be completed from this phone and will be
   .              requested to hangup to arrange other billing.
   .              [recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    144, 142, 28, 298, 210      ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 91
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              Customer Account Services (CAS) Purchase Limit (PL)
```

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```
   .             Feature. PL calls are terminated 30 seconds after
   .             a disconnect warning announcement is played.
   .             This announcement, the PL alerting tone, will be
   .             given to both the back and forward party
   .             immediately before killing the call.
   .             [recommended utterance:
   .               if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                   295                  ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 92
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the Independent Company Announcement Branding
   .             Feature.  This announcement will be given to the
   .             caller as part of the prompt requesting entry
   .             of a card number or entry of zero to reach an operator.
   .             [ recommended utterances:
   .                    47,48                 ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 93
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the 0+800 Calls From Wireless Service Providers
   .             Feature.  This announcement will be given to the
   .             caller to identify billing on an initial 0+800 call
   .             dialed number from a wireless service provider.
   .             [ recommended utterance:
   .                   79,134,117,5,84,99,103,95,106,3,84,104,
   .                   99,103,95,120,26,47,207,48 ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 94
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the 0+800 Calls From Wireless Service Providers
   .             Feature.  This announcement will be given to the
   .             caller to 0+700 or 0+900 number
   .             dialed from a wireless service provider to inform the
   .             caller that the service is not available.
   .             [ recommended utterance:
   .                   156,26,157               ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 95
```

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```
        dur             - (as calculated using the following duration rules)
        phrase01        - Announcement Header Phrase IDs/Commands
           .              for the 0+800 Calls From Wireless Service Providers
           .              Feature.  This announcement will be given to the
           .              caller, on the first attempt, to inform the caller that
           .              the service is not available if a 700, 800, or 900
           .              forward number is dialed from a wireless service provider.
           .              [ recommended utterance:
           .                    145,28,134,157            ]
        phrase68


        appl            - FCOSPS_TA
        hdr_id          - 96
        dur             - (as calculated using the following duration rules)
        phrase01        - Announcement Header Phrase IDs/Commands
           .              for the 0+800 Calls From Wireless Service Providers
           .              Feature.  This announcement will be given to the
           .              caller, on the second attempt, to inform the caller that
           .              the service is not available if a 700, 800, or 900 forward
number is
           .              dialed from a wireless service provider.
           .              [ recommended utterance:
           .                    51,28,66                  ]
        phrase68


        appl            - FCOSPS_TA
        hdr_id          - 97
        dur             - (as calculated using the following duration rules)
        phrase01        - Announcement Header Phrase IDs/Commands
           .              for the Called Number Restriction
           .              Feature.  This announcement will be given to the
           .              caller, on the first and second attempt
           .              of an initial call and on the second attempt of a
           .              sequence call, to inform the caller that
           .              the call cannot be billed to the card and that
           .              other billing must be arranged.
           .              [ recommended utterances:
           .                if microcode 5D172A3 exists in RLraf_mbd
           .                    210,27,316,317    ]
        phrase68


        appl            - FCOSPS_TA
        hdr_id          - 98
        dur             - (as calculated using the following duration rules)
        phrase01        - Announcement Header Phrase IDs/Commands
           .              for the Called Number Restriction
           .              Feature.  This announcement will be given to the
           .              caller, on the first attempt of an initial CDNR call
           .              and on the first attempt of an initial or sequence
           .              CGNR  call.
           .              This announcement will be given to the
```

```
   .              caller to inform the caller to press zero to
   .              reach an operator to  arrange other billing.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    316,317             ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 99
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Called Number Restriction
   .              Feature.  This announcement will be given to the
   .              caller, on the first attempt of a sequence call,
   .              to inform the caller that
   .              the call cannot be billed to the card and
   .              that other arrangements must be made.
   .              [ recommended utterance:
  .                if microcode 5D172A3 exists in RLraf_mbd
   .                    210,27,145,288,316,317          ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 100
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Called Number Restriction
   .              Feature.  This announcement will be given to the
   .              caller, on the first attempt of a sequence call,
   .              to inform the caller to begin dialing.
   .              [ recommended utterance:
   .                   55                              ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 101
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                     16501,102,28,113,16386,181,16502]
phrase68


appl            - FCOSPS_TA
hdr_id          - 102
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                     16501,102,28,28,113,16386,119   ]
phrase68


appl            - FCOSPS_TA
```

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```
hdr_id          - 103
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    113,16501                       ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 104
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    113,16501,105                   ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 105
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    121,122,126                     ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 106
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    52                              ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 107
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    121,122,126,118,16500,100,120   ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 108
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    52,118,16500,100,120            ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 109
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    16502,114,115                   ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 110
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    113,16501,28,28,16386,182,16502 ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 111
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    16501,102,28,28,118,16500,100,
   .                    113,16501,104,182,16502         ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 112
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    124,28,113,16501,28,28,16386,182,
   .                    16502                           ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 113
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    124,28,16501,102,28,28,118,16500,
   .                    100,113,16501,104,182,16502     ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 114
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    107,108,28,113,109              ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 115
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    109                             ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 116
```

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```
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterance:
   .                    110                              ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 117
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    111                              ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 118
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    123                              ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 119
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    113                              ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 120
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
   .                    108,114                          ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 123
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Network Remote Access (NRA) feature.
   .              This announcement will be given to the caller
   .              on initial calls prior to signaling the 4ESS(TM)
   .              for allowed remote access calls.
   .              [ recommended utterance:
   .                   155,125                  ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 124
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Network Remote Access (NRA) feature.
```

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```
   .             This announcement will be given to the caller
   .             on sequence calls prior to signaling the 4ESS(TM)
   .             for allowed remote access calls.
   .             [ recommended utterance:
   .                   52                  ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 125
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the DIOR Network Remote Access (NRA) feature.
   .             This announcement will be given to the caller
   .             on initial calls to request a new forward number
   .             if the first attempt at forward number entry
   .             results in a denied remote access call.
   .             [ recommended utterance:
   .               if microcode 5D155* exists in RLraf_mbd
   .                   156,14391,27,145               ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 126
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the DIOR Network Remote Access (NRA) feature.
   .             This announcement will be given to the caller
   .             if the second attempt at forward number entry
   .             results in a denied remote access call.
   .             [ recommended utterance:
   .               if microcode 5D155* exists in RLraf_mbd
   .                   156,14391,27,64                ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 144
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the DIOR Calling Card Announcement Change feature.
   .             This announcement will be given to the caller
   .             instead of the standard announcement for ACCS for CCC
   .             when the call is determined to be a DIOR call.
   .             [ recommended utterance:
   .               if microcode 5D155* exists in RLraf_mbd
   .                   79,14000,28,14049,14050,207,71  ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 145
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the AATLSOS AAP feature.
   .             This announcement will be given as the 1st attempt
   .             initial 1-800-CALLATT prompt menu.
```

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```
   .              [ recommended utterances:
   .                to be determined by customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 146
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the AATLSOS AAP feature.
   .              This announcement will be given as the 2nd attempt
   .              initial 1-800-CALLATT prompt menu.
   .              [ recommended utterances:
   .                to be determined by customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 147
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the AATLSOS AAP feature.
   .              This will be given as the forward
   .              number announcement for 1-800-CALLATT calls.
   .              [ recommended utterances:
   .                to be determined by customer ]
phrase68
```

## 6. ANNC_HDR Population rules continued.

```
appl            - FCOSPS_TA
hdr_id          - 148
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Quiet Hear feature where the customer
   .              is thanked if both the Quiet Hear and Audio Logo
   .              features are active
   .              [ recommended utterances:
   .                    155,126          ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 149
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the ACCS phrase for:
   .              Announcement on an ACCS call where the customer
   .              is informed of the time balance for the call.
   .              [ recommended utterances:
   .                to be determined by customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 151
```

```
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Called Number Restriction Feature.
   .              This announcement will be given to the caller,
   .              on the first and second attempt of an initial
   .              call or a  sequence call, prior to disconnect.
   .              [ recommended utterance:
   .                    51,27,56                  ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 152
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Calling Number Restriction
   .              Feature.  This announcement will be given to the
   .              caller, on the first and second attempt of an initial
   .              call or a sequence call, to inform the caller
   .              that the call cannot be billed to the card from that
   .              phone and other billing must be arranged.
   .              [ recommended utterance:
  .                if microcode 5D172A3 exists in RLraf_mbd
   .                   298,210,27,316,317            ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 153
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the International Credit Card Validation (ICCV)
   .              Called Number Geographic Restrictions Feature.
   .              This announcement will be given to inform
   .              the caller of an invalid number and to dial again.
   .              [ recommended utterance:
   .                    58,63                  ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 154
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the International Credit Card Validation (ICCV)
   .              Called Number Geographic Restrictions Feature.
   .              This announcement will be given to inform
   .              the caller of an invalid number and to hangup.
   .              [ recommended utterance:
   .                    58,64                  ]
phrase68


appl            - FCOSPS_TA
```

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```
hdr_id          - 155
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Interchangeable NPAs Feature.  This
   .              announcement will be given to the caller to
   .              request entry of the full ten digit number,
   .              including the area code.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    138,317,71,28,318,319        ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 156
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Duration Limit (DL) Feature.  This announcement
   .              will be given on the first attempt or second attempt of
   .              an initial or sequence call to inform the  caller
   .              that the call is being denied due to an Insufficient
   .              DL balance.
   .              [ recommended utterance:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    296,73,27,306,28             ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 157
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Volume Limit (VL) Feature.  This announcement
   .              will be given on the first attempt or second attempt of
   .              an initial or sequence call to inform the  caller
   .              that the call is being denied due to an Insufficient
   .              VL balance.
   .              [ recommended utterance:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    296,73,27,306,28             ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 158
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Purchase Limit (PL) Feature.  This announcement
   .              will be given on the first attempt or second attempt of
   .              an initial or sequence call to inform the  caller
   .              that the call is being denied due to an Insufficient
   .              PL balance.
   .              [ recommended utterance:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
```

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```
   .                  296,73,27,306,28            ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 159
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Card Limit (CL) Feature.  This ten second
   .              Disconnect Warning Announcement (DWA) will be
   .              given to inform the caller that the call is being
   .              terminated due to an depleted Duration Limit (DL)
   .              and/or Purchase Limit (PL) balance.  Note that
   .              this DWA interval must always be set to ten seconds,
   .              that is, phrase 5 must be 29.
   .              [ recommended utterance:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    295,27,296,297,29,94        ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 160
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Card Limit (CL) Feature.  This Card
   .              Unavailable in DataBase announcement will be given
   .              to inform the caller that the call cannot be
   .              completed and that the caller should hang up and
   .              try the call later.
   .              [ recommended utterance:
   .                   73,28,74         ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 161
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the International Credit Card Validation (ICCV)
   .              Called Number Geographic Restrictions Feature.
   .              This announcement will be given to the
   .              caller, on the first and second attempt
   .              of an initial call and on the second attempt of a
   .              sequence call, to inform the caller that
   .              the call cannot be billed to the card and that
   .              other billing must be arranged.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    210,27,316,317    ]
phrase68


appl            - FCOSPS_TA
```

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```
hdr_id          - 162
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the International Credit Card Validation (ICCV)
   .              Called Number Geographic Restrictions Feature.
   .              This announcement will be given to the
   .              caller, on the first attempt of an initial CDNR call
   .              and on the first attempt of an initial or sequence CGNR
   .              call.  This announcement will be given to the
   .              caller to inform the caller hang up and arrange other
   .              billing or press zero to reach an operator.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    316,317             ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 163
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the International Credit Card Validation (ICCV)
   .              Called Number Geographic Restrictions Feature.
   .              This announcement will be given to the
   .              caller, on the first attempt of a sequence call,
   .              to inform the caller that
   .              the call cannot be billed to the card and
   .              that other arrangements must be made.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    210,27,145,288,316,317          ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 164
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the International Credit Card Validation (ICCV)
   .              Called Number Restriction Feature.
   .              This announcement will be given to the
   .              caller, on the first attempt of a sequence call,
   .              to inform the caller to begin dialing.
   .              [ recommended utterance:
   .                   55                              ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 165
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the International Credit Card Validation (ICCV)
   .              Called Number Geographic Restrictions Feature.
```

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```
   .             This announcement will be given to the caller,
   .             on the first and second attempt of an initial
   .             call or a  sequence call, prior to disconnect.
   .             [ recommended utterance:
   .                  51,27,56                              ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 171
dur            - (as calculated using the previous pop rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the CAS Card Limit feature for a
   .             Disconnect warning announcement given due to
   .             depleted Purchase Limit (PL) and/or Duration
   .             Limit (DL) balances. Note that
   .             the last phrase must always be 'seconds.'
   .             The second to last phrase must always be
   .             a number.  The third to last phrase may be
   .             a number.  Valid values for the number of
   .             seconds must be between 10 to 90 in multiples
   .             of 5.  Further note that changing the number of seconds
   .             will change the Global parameter GLCLDWI.
   .             [ recommended utterances:
   .               if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    295,27,296,297,40,94    ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 172
dur            - (as calculated using the previous pop rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the CAS Card Limit phrase for:
   .             Denial due to call in progress or rating
   .             failure.
   .             [ recommended utterances:
   .               if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    296,73,27,306,28        ]
phrase68



appl           - FCOSPS_TA
hdr_id         - 166
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the Federal Telecommunication System Network
   .             Remote Access (FTS NRA) Feature.  This announcement will
   .             be given to the caller, on a first or second attempt,
   .             to inform a caller that the service is not available
   .             if a Sub-Account Billing (SAB) request is entered
   .             on a potential FTS NRA call.
   .             [ recommended utterance:
```

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```
   .                  156,157                ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 167
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Federal Telecommunication System Network
   .              Remote Access (FTS NRA) Feature.  This announcement will
   .              be given to the caller, on a first attempt of an
   .              initial call, to inform a caller that the service
   .              is not available if the card validation query reply
   .              returned no FTS routing number or the FTS routing
   .              number returned does not match the internally stored
   .              number on a potential FTS NRA call.
   .              [ recommended utterance:
   .                    47,49,27,213           ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 168
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Federal Telecommunication System Network
   .              Remote Access (FTS NRA) Feature.  This announcement will
   .              be given to the caller, on a second attempt of an
   .              initial call, to inform a caller that the service
   .              is not available if the card validation query reply
   .              returned no FTS routing number or the FTS routing
   .              number returned does not match the internally stored
   .              number on a potential FTS NRA call.
   .              [ recommended utterance:
   .                    51,27,213              ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 169
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Federal Telecommunication System Network
   .              Remote Access (FTS NRA) Feature.  This announcement will
   .              be given to the caller, on a sequence call, to inform
   .              a caller that the service is not available if the
   .              card validation query reply returned no FTS routing
   .              number or the FTS routing number returned does not
   .              match the internally stored number on a potential
   .              FTS NRA call.
   .              [ recommended utterance:
   .                    51,27,213              ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 170
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the BNS Fraud feature.
   .              This announcement is given on an initial call
   .              to inform the caller that a customer dialing
   .              error has occurred on a
   .              customer-dialed ACCS call.
   .              [ recommended utterances:
   .                     47,49,28,50                    ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 176
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              International Billed Number Screening Feature.
   .              After a LIDB BNS database query, this announcement
   .              is provided to the international operator.
   .              The announcement is used to prompt the distant
   .              inward operator to enter the billed number that
   .              is to be screened.
   .              [recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    321,26,55
   .                 else
   .                    53                      ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 177
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              International Billed Number Screening Feature.
   .              After a LIDB BNS database query, this announcement
   .              is provided to the international operator.
   .              The announcement is used to inform the distant
   .              inward operator that the billed number which was
   .              entered is invalid and to re-enter the number.
   .              [ recommended utterances:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                     323,26,63
   .                 else
   .                     152,26,63               ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 178
```

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```
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              International Billed Number Screening Feature.
   .              After a LIDB BNS database query, this announcement
   .              is provided to the international operator.
   .              The announcement is used to inform the distant
   .              inward operator that the billed number which was
   .              entered a second time is also invalid.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    323,26,64
   .                else
   .                    152,26,64               ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 179
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              International Billed Number Screening Feature.
   .              After a LIDB BNS database query, this announcement
   .              is provided to the international operator.
   .              The announcement is used to inform the distant
   .              inward operator that the billed number which was
   .              entered is allowed to accept collect billing.
   .              [ recommended utterance:
   .                    76                    ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 180
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              International Billed Number Screening Feature.
   .              After a LIDB BNS database query, this announcement
   .              is provided to the international operator.
   .              The announcement is used to inform the distant
   .              inward operator that the billed number which was
   .              entered is not allowed to accept collect billing.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    324
   .                else
   .                    77                    ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 181
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              International Billed Number Screening Feature.
```

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```
   .             After a LIDB BNS database query, this announcement
   .             is provided to the international operator.
   .             This announcement is used to inform the distant
   .             inward operator that service is unavailable.
   .             [ recommended utterance:
   .                  157                    ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 182
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for the
   .             Automated Inward Billed Number Screening Feature.
   .             This announcement is used to prompt the inward
   .             operator to enter the billed number that
   .             is to be screened for Collect calls.
   .             [ recommended utterance:
   .               if microcode 5D172A3 exists in RLraf_mbd
   .                   321,26,55
   .               else
   .                   55                     ]
phrase68



appl           - FCOSPS_TA
hdr_id         - 183
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for the
   .             Automated Inward Billed Number Screening Feature.
   .             This announcement is used to prompt the distant
   .             inward operator to enter the billed number that
   .             is to be screened for Third Number calls.
   .             [ recommended utterance:
   .               if microcode 5D172A3 exists in RLraf_mbd
   .                   322,26,55
   .               else
   .                   55                     ]
phrase68



appl           - FCOSPS_TA
hdr_id         - 184
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for the
   .             Automated Inward Billed Number Screening Feature.
   .             This announcement is used to inform the distant
   .             inward operator that the billed number they
   .             entered is unrecognized and to re-enter the
   .             number.
   .             [ recommended utterance:
   .               if microcode 5D172A3 exists in RLraf_mbd
```

```
   .                  323,26,63
   .                else
   .                  152,26,63              ]
phrase68



appl            - FCOSPS_TA
hdr_id          - 185
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              Automated Inward Billed Number Screening Feature.
   .              This announcement is used to inform the distant
   .              inward operator that the billed number they
   .              entered a second time is also invalid.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                  323,26,64
   .                else
   .                  152,26,64              ]
phrase68



appl            - FCOSPS_TA
hdr_id          - 186
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              Automated Inward Billed Number Screening Feature.
   .              This announcement is used to inform the distant
   .              inward operator that the billed number they
   .              entered is allowed to accept collect billing.
   .              [ recommended utterance:
   .                   76                    ]
phrase68



appl            - FCOSPS_TA
hdr_id          - 187
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              Automated Inward Billed Number Screening Feature.
   .              This announcement is used to inform the distant
   .              inward operator that the billed number they
   .              entered is not allowed to accept the requested
   .              billing (collect or third number) method.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                  324
   .                else
   .                  77                     ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 188
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              Automated Inward Billed Number Screening Feature.
   .              This announcement is used to inform the distant
   .              inward operator that billing number they entered
   .              is the number of a public station.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    107,26,324
   .                else
   .                    107,26,77               ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 189
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Interchangeable NPAs Feature.  This
   .              announcement, given upon the second attempt
   .              failure, will request the caller to hang up
   .              and enter the full ten digit number,
   .              including the area code.
   .              [ recommended utterance:
   .                if microcode 5D172A3 exists in RLraf_mbd
   .                    51,28,318,319        ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 190
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the BNS Fraud feature.  This announcement
   .              is given on an initial call when an invalid
   .              ACCS number was entered and the error
   .              threshold has been reached.  The customer is
   .              requested to hang up and reoriginate the call.
   .              [ recommended utterances:
   .                     51,28,50                      ]
phrase68
```

```
appl            - FCOSPS_TA
hdr_id          - 191
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Purchase Limits Balance Quotation
```

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```
   .              feature.  This announcement is given when
   .              a Purchase Limits Balance Quotation card
   .              is being used and the feature is active.
   .              The reply from the NCP indicates the PL
   .              feature and gives remaining value.
   .              [ recommended utterances:
   .                     118,16503,27                  ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 192
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Card Based Speed Dialing feature.
   .              This announcement is given on an initial call,
   .              after the first attempt fails, to inform the
   .              customer that the call cannot be billed to
   .              the card given.  The customer is requested
   .              to dial their AT&T card number.
   .              [ recommended utterances:
   .                     213,27,138,140                ]
phrase68



appl            - FCOSPS_TA
hdr_id          - 193
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Card Based Speed Dialing feature.
   .              This announcement is given on an initial call,
   .              after the second attempt to use the card fails,
   .              to inform the caller that the call cannot
   .              billed to the card.  The customer is
   .              requested to hang up and reoriginate the call.
   .              [ recommended utterances:
   .                     213,27,51                     ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 194
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Card Based Speed Dialing
   .              feature.  This announcement is given when
   .              the card does not permit completion of the
   .              call because a reply was received which
   .              denied the speed dial call for an invalid
   .              speed dial code or when speed dialing is not
   .              allowed.  The caller is instructed to hold
   .              for an operator or hang up.
   .              [ recommended utterances:
```

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```
   .               if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    296,73,27,306                  ]
phrase68



appl           - FCOSPS_TA
hdr_id         - 195
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the Card Based Speed Dialing
   .             feature.  This announcement is given when
   .             the speed dial forward number fails digit
   .             analysis.  The customer is requested
   .             to hang up and reoriginate the call.
   .             [ recommended utterances:
   .                    213,27,53,49                   ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 196
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the Card Based Speed Dialing
   .             feature.  This announcement is given when
   .             the card does not permit completion of the
   .             call because a reply was received which
   .             denied the speed dial call for an invalid
   .             speed dial code.  The caller is instructed
   .             to redial the number they are calling.
   .             [ recommended utterances:
   .                    54,27,53,49                    ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 197
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the Card Based Speed Dialing
   .             feature.  This announcement is given when
   .             the card does not permit completion of the
   .             call because a reply was received  after
   .             collecting the forward number which
   .             denied the speed dial call for an invalid
   .             speed dial code.  The caller is instructed
   .             to hold for an operator or hang up.
   .             [ recommended utterances:
   .               if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    54,27,306                      ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 198
dur            - (as calculated using the following duration rules)
```

```
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Card Based Speed Dialing
   .              feature.  This announcement is given when
   .              the card does not permit completion of the
   .              call because a reply was received which
   .              denied the speed dial call because speed dialing
   .              is not allowed.  The caller is instructed
   .              to redial the number they are calling.
   .              [ recommended utterances:
   .                    213,27,53,49                    ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 199
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Card Based Speed Dialing
   .              feature.  This announcement is given when
   .              the card does not permit completion of the
   .              call because a reply was received  after
   .              collecting the forward number which
   .              denied the speed dial call because speed dialing
   .              is not allowed.  The caller is instructed
   .              to hold for an operator or hang up.
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                    213,27,306                      ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 200
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Sequence Calling Enhancements
   .              feature.  This announcement is given when the
   .              forward party is busy or the called number
   .              status is undefined,
   .              the DIOR OTTO feature is active, and the
   .              country/carrier combination does NOT allow
   .              automated sequence dialing.  The caller is
   .              instructed to hold for an operator.
   .              [ recommended utterances:
   .                if microcode 5D172A1, 5D172A2 or 5D172A3
   .               exists in RLraf_mbd
   .                    264,26,158,162,159,28,28,28,28  ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 201
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Sequence Calling Enhancements
   .              feature.  This announcement is given when the
   .              forward party is busy or the called number
```

```
   .             status is undefined,
   .             the DIOR OTTO feature is active, and the
   .             country/carrier combination does allow
   .             automated sequence dialing.  The caller is
   .             instructed to press pound or hold for an operator.
   .             [ recommended utterances:
   .               if microcode 5D172A1, 5D172A2 or 5D172A3
   .              exists in RLraf_mbd
   .                    264,26,283,71,26,288,158,
   .                    162,159,28,28,28,28           ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 202
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the DIOR Sequence Calling Enhancements
   .             feature.  This announcement is given when
   .             the DIOR OTTO feature is active, a BUSY was
   .             returned from CCS7, and the
   .             country/carrier combination does NOT allow
   .             automated sequence dialing.  The caller is
   .             instructed to hold for an operator.
   .             [ recommended utterances:
   .               if microcode 5D172A1, 5D172A2 or 5D172A3
   .              exists in RLraf_mbd
   .                    260,26,158,162,159,28,28,28,28 ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 203
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the DIOR Sequence Calling Enhancements
   .             feature.  This announcement is given when
   .             the DIOR OTTO feature is active, a BUSY was
   .             returned from CCS7, and the
   .             country/carrier combination does allow
   .             automated sequence dialing.  The caller is
   .             instructed to press pound or hold for an operator.
   .             [ recommended utterances:
   .               if microcode 5D172A1, 5D172A2 or 5D172A3
   .              exists in RLraf_mbd
   .                    260,26,283,71,26,288,158,
   .                    162,159,28,28,28,28           ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 204
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the DIOR Sequence Calling Enhancements
   .             feature.  This announcement is given when
   .             the DIOR OTTO feature is active, a R/NA was
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```
   .              returned from CCS7, and a Voice Messaging
   .              feature is active.  The caller is
   .              instructed to press pound one two three
   .              to leave a message or hold for an operator.
   .              [ recommended utterances:
   .                if microcode 5D172A1, 5D172A2 or 5D172A3
   .               exists in RLraf_mbd
   .                     264,26,278,266,26,102,283,2,3,4,71,
   .                     26,288,158,162,159,28,28,28,28 ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 205
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Sequence Calling Enhancements
   .              feature.  This announcement is given when
   .              the DIOR OTTO feature is active, a BUSY was
   .              returned from CCS7, and a Voice Messaging
   .              feature is active.  The caller is
   .              instructed to press pound one two three
   .              to leave a message or hold for an operator.
   .              [ recommended utterances:
   .                if microcode 5D172A1, 5D172A2 or 5D172A3
   .               exists in RLraf_mbd
   .                     260,26,263,26,278,266,26,102,283,2,3,4,
   .                     71,26,288,158,162,159,28,28,28,28      ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 206
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LIDB-Recognition of PSDI Value 4
   .              feature.  This announcement is given as the
   .              first error announcement for initial automated
   .              and sequence calls when the LIDB-Recognition
   .              of PSDI Value 4 feature is active, and a LIDB
   .              or ANSI(R) Type 1 calling card validation response
   .              contains a "PSDI Not Equal To No Service Denial"
   .              with a value four.  The caller is instructed to
   .              dial a different card number.
   .              [ recommended utterances:
   .                     134,148,137,27,138,214                 ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 207
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LIDB-Recognition of PSDI Value 4
   .              feature.  This announcement is given as the
   .              second error announcement for initial automated
   .              and sequence calls when the LIDB-Recognition
```

```
   .             of PSDI Value 4 feature is active, and a LIDB
   .             or ANSI(R) Type 1 calling card validation response
   .             contains a "PSDI Not Equal To No Service Denial"
   .             with a value four.  The caller is instructed to
   .             hang up and arrange other billing.
   .             [ recommended utterances:
   .                    134,148,137,27,144,142                ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 208
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the LIDB-Recognition of PSDI Value 4
   .             feature.  This announcement is given as the
   .             first error announcement for Automated Inward
   .             calls when the LIDB-Recognition of PSDI Value
   .             4 feature is active, and a LIDB or ANSI(R) Type 1
   .             calling card validation response contains a
   .             "PSDI Not Equal To No Service Denial" with a
   .             value four.  The operator is instructed to
   .             dial again.
   .             [ recommended utterances:
   .                    152,63                                ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 209
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the LIDB-Recognition of PSDI Value 4
   .             feature.  This announcement is given for
   .             Automated Inward calls when the LIDB-Recognition
   .             of PSDI Value 4 feature is active, a LIDB or ANSI(R)
   .             Type 1 calling card validation response contains a
   .             "PSDI Not Equal To No Service Denial" with a
   .             value four, and the error threshold has been met.
   .             The operator is instructed to hang up.
   .             [ recommended utterances:
   .                    152,64                                ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 210
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands
   .             for the Speed Dial Auto Provisioning
   .             feature.  This announcement is given for
   .             automated 1+800+SDAP calls whose SDL query is
   .             returned with a value of "Speed Dialing Not
   .             Allowed".  The caller is instructed to call
   .             and 800 number.
   .             [ recommended utterances:
   .                    213,27,138,2,20,24,<phone number>     ]
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phrase68

appl            - FCOSPS_TA
hdr_id          - 211
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Speed Dial Auto Provisioning
   .              feature.  This announcement is given as a
   .              prompt when a 1+800+SDAP Access call is made.
   .              The caller is instructed to enter their card
   .              number and PIN.
   .              [ recommended utterances:
   .                     79,<branding>,27,138,209              ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 212
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Pre-Paid Overtime for Coin feature.
   .              This announcement is given to warn the caller
   .              that the end of the pre-paid period is approaching.
   .              [ recommended utterances:
   .                     124,27,118,16502,104                  ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 213
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Pre-Paid Overtime for Coin feature.
   .              This announcement is given to request the caller
   .              to make a deposit for more overtime.
   .              [ recommended utterances:
   .                     113,16501,5,16502,105          ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 214
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Sequence Calling Enhancements
   .              feature.  This announcement is given after
   .              the forward party goes on-hook when
   .              the DIOR OTTO feature is active, but the
   .              country/carrier combination does NOT allow
   .              automated sequence dialing.  The caller is
   .              instructed to hold for an operator.
   .              [ recommended utterances:
   .                     158,162,159,28,28,28,28         ]
phrase68

appl            - FCOSPS_TA
```

```
hdr_id          - 215
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Sequence Calling Enhancements
   .              feature.  This announcement is given after
   .              the forward party goes on-hook when
   .              the DIOR OTTO feature is active, and the
   .              country/carrier combination does allow
   .              automated sequence dialing.  The caller is
   .              instructed to press pound or hold for an operator.
   .              [ recommended utterances:
   .                if microcode 5D172A1, 5D172A2 or 5D172A3
   .               exists in RLraf_mbd
   .                     283,71,26,288,
   .                     158,162,159,28,28,28,28         ]
phrase68
```

**7. ANNC_HDR Population rules continued.**

```
appl            - FCOSPS_TA
hdr_id          - 216
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Terminating Point Restrictions (TPR)
   .              Expansion feature.  This announcement is given
   .              on automated initial card or sequence card or
   .              sent-paid calls that are TPR blocked.  The
   .              caller is instructed to hang up.
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                     156,299,302,27,64              ]
phrase50

appl            - FCOSPS_TA
hdr_id          - 217
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Toll Free 800 feature.  This
   .              announcement is given the first time the
   .              ENS query returns not allowed for the dialed
   .              800 number.  The caller is instructed to
   .              dial another number.
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                     156,299,302,303,27,145         ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 218
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Toll Free 800 feature.  This
   .              announcement is given the second time the
   .              ENS query returns not allowed for the dialed
```

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```
   .              800 number.  The caller is instructed to hang up.
   .              [ recommended utterances:
   .                if microcode 5D172A2 or 5D172A3 exists in RLraf_mbd
   .                     156,299,302,303,27,64          ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 219
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Calling Card Screening by Carrier
   .              feature.  This announcement is given when the
   .              card number collected is not compatible with
   .              the current carrier.  The caller is prompted
   .              for another card number.
   .              [ recommended utterances:
   .                     138,214,27,134,148,137         ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 220
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Calling Card Screening by Carrier
   .              feature.  This announcement is given the
   .              second time the card number collected is not
   .              compatible with the current carrier.  The
   .              caller is instructed to hang up.
   .              [ recommended utterances:
   .                     144,142,27,134,148,137         ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 221
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Calling Card Screening by Carrier
   .              feature.  This announcement is given when the
   .              carrier for the sequence number entered is
   .              not compatible with the calling
   .              card.  The caller is prompted for a different
   .              telephone number.
   .              [ recommended utterances:
   .                     145,27,210                     ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 222
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Calling Card Screening by Carrier
   .              feature.  This announcement is given the
   .              second time the carrier for the sequence
   .              number entered is not compatible with the
```

```
   .              calling card.  The caller is instructed
   .              to hang up.
   .              [ recommended utterances:
   .                     144,142,27,210                ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 223
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Toll Free 800 feature.  This
   .              announcement is given when an automated initial
   .              call is determined to be "Toll Free".
   .              [ recommended utterances:
   .                     67                            ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 224
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Network Access Interrupt feature.  This
   .              announcement is given when Deny reply code 1
   .              is returned from a query.
   .              [ recommended utterances:
   .                     75,2,27,9,24,27,7,5,17,27,1,1,1,17]
phrase50

appl            - FCOSPS_TA
hdr_id          - 225
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Network Access Interrupt feature.  This
   .              announcement is given when Deny reply code 4
   .              is returned from a query.
   .              [ recommended utterances:
   .                     75,2,27,9,24,27,7,5,17,27,1,1,1,17]
phrase50

appl            - FCOSPS_TA
hdr_id          - 226
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Network Access Interrupt feature.  This
   .              announcement is given when Deny reply code 5
   .              is returned from a query.
   .              [ recommended utterances:
   .                     75,2,27,9,24,27,7,5,17,27,1,1,1,17]
phrase50

appl            - FCOSPS_TA
hdr_id          - 227
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
```

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```
   .              for the Network Access Interrupt feature.  This
   .              announcement is given when Deny reply code 22
   .              is returned from a query.
   .              [ recommended utterances:
   .                     75,2,27,9,24,27,7,5,17,27,1,1,1,17]
phrase50

appl            - FCOSPS_TA
hdr_id          - 228
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Network Access Interrupt feature.  This
   .              announcement is given when Deny reply code 23
   .              is returned from a query.
   .              [ recommended utterances:
   .                     75,2,27,9,24,27,7,5,17,27,1,1,1,17]
phrase50

appl            - FCOSPS_TA
hdr_id          - 229
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Network Access Interrupt feature.  This
   .              announcement is given when Deny reply code 24
   .              is returned from a query.
   .              [ recommended utterances:
   .                     75,2,27,9,24,27,7,5,17,27,1,1,1,17]
phrase50

appl            - FCOSPS_TA
hdr_id          - 230
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Country Pair Screening Release 2
   .              feature.  This announcement is given when
   .              this feature is active and the CPS Card Screening
   .              indicator is set.
   .              [ recommended utterances:
   .                     138,140                        ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 231
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Carrier Specific Branding feature.
   .              This announcement is given on seizure of
   .              'rated' ACTS calls when this feature is active
   .              and carrier branding is on.
   .              [ recommended utterances:
   .                     16504,16501,102,28,113,16386,181,16502 ]
phrase68

appl            - FCOSPS_TA
```

```
hdr_id          - 232
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Carrier Specific Branding feature.
   .              This announcement is given on seizure of
   .              ACCS calls when this feature is active
   .              and carrier branding is on.
   .              [ recommended utterances:
   .                    79,16504,28,47,48              ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 233
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Carrier Specific Branding feature.
   .              This announcement is given before routing of
   .              ACCS and ACTS calls when this feature is active
   .              and carrier branding is on.
   .              [ recommended utterances:
   .                    155,16504                      ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 234
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Carrier Specific Branding feature.
   .              This announcement is given before routing of
   .              ACTS calls when this feature is active, there
   .              is a credit balance, and carrier branding is on.
   .              [ recommended utterances:
   .                    155,16504,118,16500,100,120    ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 235
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Carrier Specific Branding feature.
   .              This announcement is given on seizure of
   .              'flat charge' ACTS calls when this feature is active
   .              and carrier branding is on.
   .              [ recommended utterances:
   .                    16504,16501,102,28,28,113,16386,119   ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 236
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the International Billed Number Screening
   .              (IBNS) Release 2 feature.
   .              This announcement is given to inform operators
```

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```
   .              that the called number is a public phone or that
   .              collect billing to that number is not allowed.
   .              [ recommended utterances:
   .                if microcode 5D155* exists in RLraf_mbd
   .                    14066,124,14066,124     ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 237
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
  .               for the Inmate Calling Services (ICS) feature.
  .               This announcement is given to turn back the caller
  .               when an error is encountered.
  .               [ recommended utterance:
  .                     156, 157, 27, 74]
phrase68

appl            - FCOSPS_TA
hdr_id          - 238
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automated Calling Card Services for
   .              Commercial Credit Cards (ACCS for CCC) feature.
   .              This announcement is given to prompt the
   .              calling card customer for the expiration date.
   .              [ recommended utterances:
   .                if microcode 5D155* exists in RLraf_mbd
   .                    14392   ]
phase68

appl            - FCOSPS_TA
hdr_id          - 239
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automated Calling Card Services for
   .              Commercial Credit Cards (ACCS for CCC) feature.
   .              This announcement is given to reprompt the
   .              calling card customer for the card number and
   .              expiration date after the previous attempt
   .              resulted in an invalid card number.
   .              [ recommended utterances:
   .                if microcode 5D155* exists in RLraf_mbd
   .                    47,106,14413,14418,14412,49,27,50 ]
phase68


appl            - FCOSPS_TA
hdr_id          - 240
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automated Calling Card Services for
   .              Commercial Credit Cards (ACCS for CCC) feature.
   .              This announcement is given to inform the
```

```
   .             calling card customer that the card number
   .             and expiration date have been correctly
   .             entered and that the call will proceed with
   .             normal ACCS processing.
   .             [ recommended utterances:
   .                    121,26,160             ]
phase68


appl           - FCOSPS_TA
hdr_id         - 241
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for the
   .             PLBQ Business/Residential Promotional Card
   .             feature.  This announcement, constructed by the
   .             customer, will provide a customized announcement
   .             as part of the balance quotation for the call.
   .             [ recommended utterances:
   .                    determined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 242
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for the
   .             PLBQ Business/Residential Promotional Card
   .             feature.  This announcement, constructed by the
   .             customer, will provide a customized announcement
   .             as part of the balance quotation for the call.
   .             [ recommended utterances:
   .                    determined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 243
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for the
   .             PLBQ Business/Residential Promotional Card
   .             feature.  This announcement, constructed by the
   .             customer, will provide a customized announcement
   .             as part of the balance quotation for the call.
   .             [ recommended utterances:
   .                    determined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 244
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for the
   .             PLBQ Business/Residential Promotional Card
   .             feature.  This announcement, constructed by the
```

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```
   .             customer, will provide a customized announcement
   .             as part of the balance quotation for the call.
   .             [ recommended utterances:
   .                    determined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 245
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for the
   .             PLBQ Business/Residential Promotional Card
   .             feature.  This announcement, constructed by the
   .             customer, will provide a customized announcement
   .             as part of the balance quotation for the call.
   .             [ recommended utterances:
   .                    determined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 246
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for the
   .             PLBQ Business/Residential Promotional Card
   .             feature.  This announcement, constructed by the
   .             customer, will provide a customized announcement
   .             as part of the balance quotation for the call.
   .             [ recommended utterances:
   .                    determined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 247
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for the
   .             PLBQ Business/Residential Promotional Card
   .             feature.  This announcement, constructed by the
   .             customer, will provide a customized announcement
   .             as part of the balance quotation for the call.
   .             [ recommended utterances:
   .                    determined by the customer ]
phrase68


appl           - FCOSPS_TA
hdr_id         - 248
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for the
   .             PLBQ Business/Residential Promotional Card
   .             feature.  This announcement, constructed by the
   .             customer, will provide a customized announcement
   .             as part of the balance quotation for the call.
```

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```
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 249
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 250
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 251
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 252
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
```

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```
phrase68


appl            - FCOSPS_TA
hdr_id          - 253
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 254
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 255
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 256
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 257
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 258
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 259
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 260
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
```

```
hdr_id          - 261
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 262
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 263
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 264
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 265
dur             - (as calculated using the following duration rules)
```

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```
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 266
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 267
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 268
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 269
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
```

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```
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 270
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for the
   .              PLBQ Business/Residential Promotional Card
   .              feature.  This announcement, constructed by the
   .              customer, will provide a customized announcement
   .              as part of the balance quotation for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 271
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 272
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 273
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
```

```
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 274
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 275
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 276
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 277
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
```

```
   .                    determined by the customer ]
phrase68


appl             - FCOSPS_TA
hdr_id           - 278
dur              - (as calculated using the following duration rules)
phrase01         - Announcement Header Phrase IDs/Commands
   .               for the PLBQ Business/Residential Promotional
   .               Card feature.  This announcement, constructed by
   .               the customer, will provide an additional announcement
   .               as part of the warning announcement for the call.
   .               [ recommended utterances:
   .                      determined by the customer ]
phrase68


appl             - FCOSPS_TA
hdr_id           - 279
dur              - (as calculated using the following duration rules)
phrase01         - Announcement Header Phrase IDs/Commands
   .               for the PLBQ Business/Residential Promotional
   .               Card feature.  This announcement, constructed by
   .               the customer, will provide an additional announcement
   .               as part of the warning announcement for the call.
   .               [ recommended utterances:
   .                      determined by the customer ]
phrase68


appl             - FCOSPS_TA
hdr_id           - 280
dur              - (as calculated using the following duration rules)
phrase01         - Announcement Header Phrase IDs/Commands
   .               for the PLBQ Business/Residential Promotional
   .               Card feature.  This announcement, constructed by
   .               the customer, will provide an additional announcement
   .               as part of the warning announcement for the call.
   .               [ recommended utterances:
   .                      determined by the customer ]
phrase68


appl             - FCOSPS_TA
hdr_id           - 281
dur              - (as calculated using the following duration rules)
phrase01         - Announcement Header Phrase IDs/Commands
   .               for the PLBQ Business/Residential Promotional
   .               Card feature.  This announcement, constructed by
   .               the customer, will provide an additional announcement
   .               as part of the warning announcement for the call.
   .               [ recommended utterances:
   .                      determined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 282
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 283
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 284
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 285
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 286
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 287
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 288
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 289
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 290
```

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```
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 291
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 292
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 293
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68
```

**8. ANNC_HDR Population rules continued.**

```
appl            - FCOSPS_TA
hdr_id          - 294
dur             - (as calculated using the following duration rules)
```

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```
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 295
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 296
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 297
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 298
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
```

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```
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 299
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 300
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the PLBQ Business/Residential Promotional
   .              Card feature.  This announcement, constructed by
   .              the customer, will provide an additional announcement
   .              as part of the warning announcement for the call.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 301
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override
   .              (ATCO) feature.  This announcement will be given
   .              when the card call is restricted by TCS/CPS and
   .              the call will be verified by ATCO processing.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 302
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override (ATCO)
   .              feature.  Either this announcement or 303 will be
   .              given to pass the card number to the ICVC attendant.
   .              The combination of 302/303, 304/305 and 316,
   .              and 306/307 will be given as a set.
```

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```
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 303
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override (ATCO)
   .              feature.  Either this announcement or 302 will be
   .              given to pass the card number to the ICVC attendant.
   .              The combination of 302/303, 304/305 and 316,
   .              and 306/307 will be given as a set.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 304
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override (ATCO)
   .              feature.  This announcement will be given to pass
   .              the domestic forward number to the ICVC attendant.
   .              The combination of 302/303, 304/305 and 316,
   .              and 306/307 will be given as a set.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 305
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override (ATCO)
   .              feature.  This announcement will be
   .              given to pass the country code to the ICVC
   .              attendant.
   .              The combination of 302/303, 304/305 and 316,
   .              and 306/307 will be given as a set.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 306
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override (ATCO)
   .              feature.  Either this announcement or 307 will be
   .              given to pass the back number to the ICVC attendant.
   .              The combination of 302/303, 304/305 and 316,
   .              and 306/307 will be given as a set.
   .              [ recommended utterances:
```

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```
   .                    determined by the customer ]
phrase68

appl             - FCOSPS_TA
hdr_id           - 307
dur              - (as calculated using the following duration rules)
phrase01         - Announcement Header Phrase IDs/Commands
   .               for the Automation of TCS/CPS Override (ATCO)
   .               feature.  Either this announcement or 306 will be
   .               given to pass the back number to the ICVC attendant.
   .               The combination of 302/303, 304/305 and 316,
   .               and 306/307 will be given as a set.
   .               [ recommended utterances:
   .                      determined by the customer ]
phrase68

appl             - FCOSPS_TA
hdr_id           - 308
dur              - (as calculated using the following duration rules)
phrase01         - Announcement Header Phrase IDs/Commands
   .               for the Automation of TCS/CPS Override
   .               (ATCO) feature.  This announcement will be given
   .               to provide DTMF dialing instructions to the ICVC
   .               attendant after the call data has been given but
   .               before the verification conversation has taken place.
   .               [ recommended utterances:
   .                      determined by the customer ]
phrase68

appl             - FCOSPS_TA
hdr_id           - 309
dur              - (as calculated using the following duration rules)
phrase01         - Announcement Header Phrase IDs/Commands
   .               for the Automation of TCS/CPS Override
   .               (ATCO) feature.  This announcement will be given
   .               to provide DTMF dialing instructions to the ICVC
   .               attendant during/after verification conversation.
   .               [ recommended utterances:
   .                      determined by the customer ]
phrase68

appl             - FCOSPS_TA
hdr_id           - 310
dur              - (as calculated using the following duration rules)
phrase01         - Announcement Header Phrase IDs/Commands
   .               for the Automation of TCS/CPS Override
   .               (ATCO) feature.  This announcement will be given
   .               after the ICVC attendant has signaled back to
   .               the OSPS that verification with the caller is
   .               needed and the OSPS has "unsplit" the caller.
   .               [ recommended utterances:
   .                      determined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 311
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override
   .              (ATCO) feature.  This announcement will be given
   .              when the ICVC attendant signals for assistance
   .              from an OSPS operator or the call is bailing out
   .              to an OSPS operator due to a failure in ATCO
   .              processing.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 312
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override
   .              (ATCO) feature.  This announcement will be given
   .              when the ICVC attendant has signaled back a
   .              "denial" to the OSPS.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 313
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override
   .              (ATCO) feature.  This announcement will be given
   .              to the ICVC attendant whenever the OSPS receives
   .              a DTMF response of "denial", "allow", or
   .              "other billing".
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 314
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override
   .              (ATCO) feature.  This announcement will be given
   .              to the ICVC attendant some number of seconds
   .              prior to the call being bailed out to an OSPS
   .              operator position because of a longer than usual
   .              delay in ATCO processing.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
```

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```
hdr_id          - 315
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override
   .              (ATCO) feature.  This announcement will be given
   .              whenever the ICVC attendant enters an invalid
   .              entry or During the Caller Interaction Segment
   .              of an ATCO call, if the final disposition timer
   .              is active and the entry for a Help Request is
   .              received.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 316
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Automation of TCS/CPS Override (ATCO)
   .              feature.  This announcement will be
   .              given to pass up to 5 digits after the country
   .              code to the ICVC attendant.
   .              The combination of 302/303, 304/305 and 316,
   .              and 306/307 will be given as a set.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 317
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Alternate Access to Language Specific
   .              Operator Services (AATLSOS) Automated Access
   .              Prompting (AAP) using Call Processing Data Link
   .              (CPDL) Interface feature. This announcement
   .              will be given to announce that the AAP
   .              service is currently unavailable, and to try
   .              again later.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 318
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Alternate Access to Language Specific
   .              Operator Services (AATLSOS) Automated Access
   .              Prompting (AAP) using Call Processing Data Link
   .              (CPDL) Interface feature. This announcement
   .              will be given for the forward number prompt
   .              when the Complete Call message does not
   .              contain the forward number.
```

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```
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 319
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Alternate Access to Language Specific
   .              Operator Services (AATLSOS) Automated Access
   .              Prompting (AAP) using Call Processing Data Link
   .              (CPDL) Interface feature. This announcement
   .              will be given for the forward number re-prompt
   .              when the Complete Call message does not
   .              contain the forward number, and after the
   .              initial prompt, the entered forward number
   .              fails digit analysis.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 320
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Alternate Access to Language Specific
   .              Operator Services (AATLSOS) Automated Access
   .              Prompting (AAP) using Call Processing Data Link
   .              (CPDL) Interface feature. This announcement
   .              will be given for the forward number re-prompt
   .              when the Complete Call message does not
   .              contain the forward number, and after the
   .              initial prompt, the forward and card numbers
   .              are entered, and the forward number fails
   .              digit analysis.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 321
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Alternate Access to Language Specific
   .              Operator Services (AATLSOS) Automated Access
   .              Prompting (AAP) using Call Processing Data Link
   .              (CPDL) Interface feature. This announcement
   .              will be given for the forward number re-prompt
   .              when the Complete Call message contains the
   .              forward number, but the forward number fails
   .              digit analysis.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 322
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Alternate Access to Language Specific
   .              Operator Services (AATLSOS) Automated Access
   .              Prompting (AAP) using Call Processing Data Link
   .              (CPDL) Interface feature. This announcement
   .              will be given for the forward number re-prompt
   .              when the Complete Call message contains both
   .              the forward and card numbers, but the forward
   .              number fails digit analysis.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 323
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Voice Messaging Service (VMS)
   .              Access Dialing Changes feature.
   .              This announcement will be given for the
   .              non-DIOR originations, that informs the
   .              caller that the destination number is busy.
   .              The announcement may also include instructions
   .              as to how the caller can leave a message.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 324
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Voice Messaging Service (VMS)
   .              Access Dialing Changes feature.
   .              This announcement will be given for the
   .              DIOR originations, that informs the
   .              caller that the destination number is busy.
   .              The announcement may also include instructions
   .              as to how the caller can leave a message.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 325
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Voice Messaging Service (VMS)
   .              Access Dialing Changes feature.
   .              This announcement will be given for the
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   .              non-DIOR originations, that informs the
   .              caller that the forward party is not answering.
   .              The announcement may also include instructions
   .              as to how the caller can leave a message.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 326
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Voice Messaging Service (VMS)
   .              Access Dialing Changes feature.
   .              This announcement will be given for the
   .              DIOR originations, that informs the
   .              caller that the forward party is not answering.
   .              The announcement may also include instructions
   .              as to how the caller can leave a message.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 327
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Voice Messaging Service (VMS)
   .              Access Dialing Changes feature.
   .              This announcement will be given for
   .              both DIOR and non-DIOR originations, that
   .              informs the caller that access to VMS is not
   .              allowed.  This announcement, which is a first
   .              error report, will be played either because the
   .              associated calling card or destination number
   .              is ineligible for VMS treatment.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 328
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Voice Messaging Service (VMS)
   .              Access Dialing Changes feature.
   .              This announcement will be given for
   .              both DIOR and non-DIOR originations, that
   .              informs the caller that access to VMS is not
   .              allowed.  This announcement, which is a second
   .              error report, will be played either because the
   .              associated calling card or destination number
   .              is ineligible for VMS treatment.
   .              [ recommended utterances:
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   .                    determined by the customer ]
phrase68

appl             - FCOSPS_TA
hdr_id           - 329
dur              - (as calculated using the following duration rules)
phrase01         - Announcement Header Phrase IDs/Commands
   .               for the Voice Messaging Service (VMS)
   .               Access Dialing Changes feature.
   .               This announcement will be given for
   .               both DIOR and non-DIOR originations, that
   .               informs the caller that s/he has entered an
   .               invalid ESP Access Code.  This announcement
   .               is provided when the caller has requested a
   .               transfer to VMS by dialing only the ESP Access
   .               Code (that is, the caller did not precede the
   .               entry with #).  The announcement, which is a
   .               first error report, may also include additional
   .               instructions as to how the caller can leave a
   .               message or how to make another call.
   .               [ recommended utterances:
   .                      determined by the customer ]
phrase68

appl             - FCOSPS_TA
hdr_id           - 330
dur              - (as calculated using the following duration rules)
phrase01         - Announcement Header Phrase IDs/Commands
   .               for the Voice Messaging Service (VMS)
   .               Access Dialing Changes feature.
   .               This announcement will be given for
   .               both DIOR and non-DIOR originations, that
   .               informs the caller that s/he has entered an
   .               invalid ESP Access Code.  This announcement
   .               is provided when the caller has requested a
   .               transfer to VMS using the existing dialing
   .               method (that is, #-VMS Service Code-ESP Access
   .               Code).  The announcement, which is a
   .               first error report, may also include additional
   .               instructions as to how the caller can leave a
   .               message or how to make another call.
   .               [ recommended utterances:
   .                      determined by the customer ]
phrase68

appl             - FCOSPS_TA
hdr_id           - 331
dur              - (as calculated using the following duration rules)
phrase01         - Announcement Header Phrase IDs/Commands
   .               for the Voice Messaging Service (VMS)
   .               Access Dialing Changes feature.
   .               This announcement will be given for
   .               both DIOR and non-DIOR originations, that
   .               informs the caller that s/he has entered an
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   .              invalid ESP Access Code.  The announcement,
   .              which is a second error report, will instruct
   .              the caller to hang up.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 332
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customer Account Services (CAS)
   .              International Intercept feature.
   .              This announcement will be given to announce
   .              the Terminating Code Screening (TCS) or
   .              Country Pair Screening (CPS) to the
   .              International Card Verification Center (ICVC)
   .              attendant.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 333
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customer Account Services (CAS)
   .              International Intercept feature.
   .              This announcement will be given to announce
   .              the Intercept screening to the International
   .              Card Verification Center (ICVC) attendant.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 334
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Customer Account Services (CAS)
   .              International Intercept feature.
   .              This announcement will be given to announce
   .              the Terminating Code Screening (TCS) or
   .              Country Pair Screening (CPS) with
   .              Intercept screening to the
   .              International Card Verification Center (ICVC)
   .              attendant.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 335
```

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```
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the Voice Messaging Service (VMS)
   .              Access Dialing Changes feature with the
   .              VMS Implicit Transfer Activation parameter
   .              activated.
   .              This announcement will be given for the
   .              non-DIOR originations, that informs the
   .              caller that the destination number is busy.
   .              The announcement may also include instructions
   .              as to how the caller can leave a message.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 336
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 337
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 338
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 339
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 340
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 341
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 342
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 343
```

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```
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 344
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 345
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 346
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Completion of Inter-LATA Calls Accessing
   .              Directory Assistance - Release 3 feature.
   .
   .              This announcement will be given for calls
   .              that receive CICADA-R3 call completion offer.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 347
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
```

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```
   .             the Completion of Inter-LATA Calls Accessing
   .             Directory Assistance - Release 3 feature.
   .
   .             This announcement will be given for calls
   .             that receive CICADA-R3 call completion offer.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 348
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for
   .             the Completion of Inter-LATA Calls Accessing
   .             Directory Assistance - Release 3 feature.
   .
   .             This announcement will be given for calls
   .             that receive CICADA-R3 call completion offer.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 349
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for
   .             the Completion of Inter-LATA Calls Accessing
   .             Directory Assistance - Release 3 feature.
   .
   .             This announcement will be given for calls
   .             that receive CICADA-R3 call completion offer.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 350
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for
   .             the Completion of Inter-LATA Calls Accessing
   .             Directory Assistance - Release 3 feature.
   .
   .             This announcement will be given for calls
   .             that receive CICADA-R3 call completion offer.
   .             [ recommended utterances:
   .                   defined by the customer ]
phrase68

appl           - FCOSPS_TA
hdr_id         - 351
alt_ann        - 1-1000
dur            - (as calculated using the following duration rules)
phrase01       - Announcement Header Phrase IDs/Commands for
   .             Direct Integrated Access to Language Enhanced
```

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```
   .              Capabilities (DIALECT).
   .
   .              This announcement will be given for DIOR
   .              Initial Prompt that applies to Language
   .              Access Codes calls.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 352
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              Direct Integrated Access to Language Enhanced
   .              Capabilities (DIALECT).
   .
   .              This announcement will be given for an AATOS
   .              Initial Prompt that applies to Language
   .              Access Codes calls.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 353
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              Direct Integrated Access to Language Enhanced
   .              Capabilities (DIALECT).
   .
   .              This announcement will be given for a
   .              Language Menu.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 354
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              Direct Integrated Access to Language Enhanced
   .              Capabilities (DIALECT).
   .
   .              This announcement will be given for a
   .              Language Access Code Denial.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 355
```

```
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              Direct Integrated Access to Language Enhanced
   .              Capabilities (DIALECT).
   .
   .              This announcement will be given for a
   .              Language Menu Denial.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 356
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              Direct Integrated Access to Language Enhanced
   .              Capabilities (DIALECT).
   .
   .              This announcement will be given for a
   .              DIOR Destination Number Reprompt
   .              when Language Access Codes apply to the call.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 357
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              Direct Integrated Access to Language Enhanced
   .              Capabilities (DIALECT).
   .
   .              This announcement will be given for a
   .              AATOS Destination Number Reprompt
   .              when Language Access Codes apply to the call.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 358
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              ACCS Special 10 Digit Calling Card Handling.
   .
   .              This announcement will be given for prompting
   .              on recognized 14 digit calling card calls.
   .              [ recommended utterances:
   .                    defined by the customer ]
```

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```
phrase68

appl            - FCOSPS_TA
hdr_id          - 359
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              ACCS Special 10 Digit Calling Card Handling.
   .
   .              This announcement will be given for inward
   .              service acceptances for Ten Digit True Choice
   .              Calling card calls.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 361
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Purchase Limits Balance Quotation (PLBQ)
   .              With Add-On Capabilities feature.
   .
   .              This announcement will serve as an
   .              insufficient balance - 1st attempt error
   .              announcement.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 362
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Purchase Limits Balance Quotation (PLBQ)
   .              With Add-On Capabilities feature.
   .
   .              This announcement will serve as an
   .              insufficient balance - 2nd attempt error
   .              announcement.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 363
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Purchase Limits Balance Quotation (PLBQ)
   .              With Add-On Capabilities feature.
   .
```

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```
   .              This announcement will serve as an
   .              add-on card warning announcement when a
   .              regular warning interval applies.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 364
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Purchase Limits Balance Quotation (PLBQ)
   .              With Add-On Capabilities feature.
   .
   .              This announcement will serve as an
   .              add-on card hold announcement.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 365
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Purchase Limits Balance Quotation (PLBQ)
   .              With Add-On Capabilities feature.
   .
   .              This announcement will serve as an
   .              add-on card prompt announcement.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

**9. ANNC_HDR Population rules continued.**

```
appl            - FCOSPS_TA
hdr_id          - 366
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Purchase Limits Balance Quotation (PLBQ)
   .              With Add-On Capabilities feature.
   .
   .              This announcement will serve as an
   .              add-on card only - 1st attempt error
   .              announcement.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 367
```

```
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Purchase Limits Balance Quotation (PLBQ)
   .              With Add-On Capabilities feature.
   .
   .              This announcement will serve as an
   .              add-on card only - 2nd attempt error
   .              announcement.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 368
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Purchase Limits Balance Quotation (PLBQ)
   .              With Add-On Capabilities feature.
   .
   .              This announcement will serve as an
   .              add-on card continue announcement.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 369
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Purchase Limits Balance Quotation (PLBQ)
   .              With Add-On Capabilities feature.
   .
   .              This announcement will serve as a
   .              called party good-bye announcement.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 370
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Purchase Limits Balance Quotation (PLBQ)
   .              With Add-On Capabilities feature.
   .
   .              This announcement will serve as a
   .              calling party good-bye announcement.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 371
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Automated Sequential Card Queries (ASCQ)
   .              feature.
   .
   .              This announcement will serve as an
   .              Automated Inward calls after proprietary
   .              card announcement.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 372
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Purchase Limits Balance Quotation (PLBQ)
   .              With Add-On Capabilities feature.
   .
   .              This announcement will serve as an
   .              add-on card warning announcement when a
   .              short allowed time warning interval applies.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 373
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for:
   .              Reprompt announcement for the card number due to
   .              erasure of the dialed forward number digits for the
   .              800 Peel out for calling card feature.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 374
alt_ann         - 1-1000
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for:
   .              Reprompt announcement for the card number due to
   .              erasure of the dialed card number digits for the
   .              800 Peel out for calling card feature.
   .              [ recommended utterances:
   .                    defined by the customer ]
```

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```
        phrase68


        appl            - FCOSPS_TA
        hdr_id          - 375
        dur             - (as calculated using the following duration rules)
        phrase01        - Announcement Header Phrase IDs/Commands for:
           .              Card number prompt announcement with account owner phrase
           .              for automated calling card service with bailout
           .              to an operator for (OLNS) feature.
           .              [ recommended utterances:
           .                    defined by the customer ]
        phrase68

        appl            - FCOSPS_TA
        hdr_id          - 376
        dur             - (as calculated using the following duration rules)
        phrase01        - Announcement Header Phrase IDs/Commands for:
           .              Card number prompt announcement with account owner phrase
           .              for automated calling card service without bailout
           .              to an operator for (OLNS) feature.
           .              [ recommended utterances:
           .                    defined by the customer ]
        phrase68

        appl            - FCOSPS_TA
        hdr_id          - 377
        dur             - (as calculated using the following duration rules)
        phrase01        - Announcement Header Phrase IDs/Commands for:
           .              This announcement provides a forward number reprompt
           .              on sequence calls when only domestic calls can be
           .              billed to card calls from the back number for (OLNS) featur
e.
           .              [ recommended utterances:
           .                    defined by the customer ]
        phrase68

        appl            - FCOSPS_TA
        hdr_id          - 378
        dur             - (as calculated using the following duration rules)
        phrase01        - Announcement Header Phrase IDs/Commands for:
           .              This announcement provides a forward number reprompt
           .              on sequence calls when card is not allowed for calls
           .              to directory assistance numbers for (OLNS) feature.
           .              [ recommended utterances:
           .                    defined by the customer ]
        phrase68

        appl            - FCOSPS_TA
        hdr_id          - 379
        dur             - (as calculated using the following duration rules)
        phrase01        - Announcement Header Phrase IDs/Commands for:
           .              This announcement provides a forward number error
           .              and reprompt where operator access is blocked, but
```

```
            .              card is allowed, and the caller enters a zero in
            .              response to the card prompt for (OLNS) feature.
            .              [ recommended utterances:
            .                    defined by the customer ]
         phrase68

         appl            - FCOSPS_TA
         hdr_id          - 380
         dur             - (as calculated using the following duration rules)
         phrase01        - Announcement Header Phrase IDs/Commands for:
            .              This announcement is used when there is nothing the
            .              caller can do to further automate the call, and
            .              operator access is blocked. It is followed by
            .              disconnect for (OLNS) feature.
            .              [ recommended utterances:
            .                    defined by the customer ]
         phrase68

         appl            - FCOSPS_TA
         hdr_id          - 381
         dur             - (as calculated using the following duration rules)
         phrase01        - Announcement Header Phrase IDs/Commands for:
            .              This announcement provides card number prompt without
            .              account owner phrase for automated calling card service wit
hout
            .              bailout to an operator for (OLNS) feature.
            .              [ recommended utterances:
            .                    defined by the customer ]
         phrase68


         appl            - FCOSPS_TA
         hdr_id          - 382
         dur             - (as calculated using the following duration rules)
         phrase01        - Announcement Header Phrase IDs/Commands
            .              for the AATLSOS AAP feature.
            .              This announcement will be given as the 1st attempt
            .              initial 1-800-CALLATT prompt menu.
            .              [ recommended utterances:
            .                to be determined by customer ]
         phrase68

         appl            - FCOSPS_TA
         hdr_id          - 383
         dur             - (as calculated using the following duration rules)
         phrase01        - Announcement Header Phrase IDs/Commands
            .              for the AATLSOS AAP feature.
            .              This announcement will be given as the new
            .              Non-Tariffed services conditions and terms
            .              concatenated with the phrases of the existing
            .              1st attempt initial 1-800-CALLATT prompt menu.
            .              [ recommended utterances:
            .                to be determined by customer ]
         phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 384
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Listing Services - International Directory
   .              Assistance feature.
   .
   .              This announcement provides a card number reprompt
   .              if the Purchase Limits card is not allowed for the
   .              dialed DA destination number and the database reply
   .              is received with Purchase Limits information in an
   .              "allow" reply.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 385
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Listing Services - International Directory
   .              Assistance feature.
   .
   .              This announcement is used to provide termination
   .              treatment if the card is not allowed and a
   .              database reply is received with Purchase Limits
   .              information in an "allow" reply.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 386
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Listing Services - International Directory
   .              Assistance feature.
   .
   .              This announcement provides a new Foreign DA
   .              Operator holding announcement to inform the
   .              caller to hold for a foreign DA operator.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 387
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Listing Services - International Directory
   .              Assistance feature.
   .
```

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```
   .              This announcement provides a new MECH
   .              International Directory Assistance (IDA) holding
   .              announcement if there are no available MECH IDA
   .              conference operators after the foreign DA
   .              operator answers the call.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 388
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Listing Services - International Directory
   .              Assistance feature.
   .
   .              This announcement provides termination
   .              announcement to inform the foreign DA operator
   .              to hang up if the back party goes on-hook before
   .              a MECH IDA conference operator is available and
   .              the foreign DA operator still off-hook.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 389
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the DIOR Calling Card Restrictions to
   .              Domestic Terminations feature.  This
   .              announcement will be given on a call to
   .              a domestic number for which calling card
   .              restrictions apply and verification will be
   .              provided by Automation of TCS/CPS Override
   .              (ATCO) processing.
   .              [ recommended utterances:
   .                     determined by the customer ]
phrase68


appl            - FCOSPS_TA
hdr_id          - 390
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Limit for Customer-Controlled Reconnect
   .              to LS/DA feature.
   .
   .              This announcement will be given to inform the
   .              caller that he/she exceeded the reconnect limit
   .              for this call.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68
```

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```
appl            - FCOSPS_TA
hdr_id          - 391
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Rate Announcement on 0+ Calls - Release 2
   .              feature.
   .
   .              This announcement will be used as the initial
   .              prompt to the calling party on AT&T rate-offer-
   .              eligible calls.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 392
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Rate Announcement on 0+ Calls - Release 2
   .              feature.
   .
   .              This announcement will be used as the initial
   .              prompt to the calling party on branded independent
   .              company rate-offer-eligible calls.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

appl            - FCOSPS_TA
hdr_id          - 393
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              the Rate Announcement on 0+ Calls - Release 2
   .              feature.
   .
   .              This announcement will be used as the initial
   .              prompt to the calling party on unbranded independent
   .              company rate-offer-eligible calls.
   .              [ recommended utterances:
   .                    defined by the customer ]
phrase68

**************************************************************************/

Population Rules for Remote Access Services (RAS)

DESCRIPTION:

Defines the header portion of a Remote Access Services (RAS)
announcement. Some announcement headers may be concatenated
together depending upon options selected. The actual hdr_id's
listed here are derived from DMras_id. Call processing will
```

```
use this domain and cast the value to a short before accessing
a tuple in this relation. The enumeration name was listed here
because it is more descriptive than the corresponding  number.


QUANTITY OF TUPLES:

22 tuples per SM.


TUPLE SEMANTICS for FCBRCS_RAS:

REMOTE ACCESS SERVICES - CALL FORWARDING SPECIFIC
        MESSAGE HEADERS

appl            - FCBRCS_RAS
hdr_id          - 1
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
   .              Call Forwarding Activation Message Option 1
   .              [ recommended utterances:
   .                        80,16385,81,13,82,12,54,98      ]
phrase68


appl            - FCBRCS_RAS
hdr_id          - 2
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
   .              Call Forwarding Activation Message Option 2
   .              [ recommended utterances:
   .                        83,74,98                        ]
phrase68


appl            - FCBRCS_RAS
hdr_id          - 3
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
   .              Call Forwarding Activation Message Option 3
   .              [ recommended utterances:
   .                        77,84,16385,85,86,98            ]
phrase68


appl            - FCBRCS_RAS
hdr_id          - 4
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
   .              Call Forwarding Activation Feature
```

```
   .              [ recommended utterances:
   .                        59,60,62                        ]
phrase68


appl            - FCBRCS_RAS
hdr_id          - 5
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
   .              Call Forwarding Deactivation Feature
   .              [ recommended utterances:
   .                        59,61,62                        ]
phrase68


appl            - FCBRCS_RAS
hdr_id          - 6
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
   .              Call Forwarding Equipment Problem Message
   .              [ recommended utterances:
   .                        65,91,92                        ]
phrase68


appl            - FCBRCS_RAS
hdr_id          - 7
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
   .              Call Forwarding Error Message Option 1
   .              [ recommended utterances:
   .                        65,89,90                        ]
phrase68


appl            - FCBRCS_RAS
hdr_id          - 8
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
   .              Call Forwarding Error Message Option 2
   .              [ recommended utterances:
   .                        77,93,74,98                     ]
phrase68


appl            - FCBRCS_RAS
hdr_id          - 9
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
```

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```
   .              Call Forwarding Identification Message
   .              [ recommended utterances:
   .                        77,78,79,54,98                  ]
phrase68


REMOTE ACCESS SERVICES SPECIFIC MESSAGE HEADERS

appl            - FCBRCS_RAS
hdr_id          - 10
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
   .              Call Forwarding Deactivation Confirmation
   .              [ recommended utterances:
   .                        77,97,74,98                     ]
phrase68


appl            - FCBRCS_RAS
hdr_id          - 14
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
   .              RAS Error message option 1
   .              [ recommended utterances:
   .                        65,66,67,68                     ]
phrase68


appl            - FCBRCS_RAS
hdr_id          - 16
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
   .              RAS Error message option 2
   .              [ recommended utterances:
   .                        65,87,88,98                     ]
phrase68


appl            - FCBRCS_RAS
hdr_id          - 18
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
   .              RAS Error message option 3
   .              [ recommended utterances:
   .                        101,19,102,53,54,98             ]
phrase68


appl            - FCBRCS_RAS
hdr_id          - 21
```

```
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
   .              RAS Feature Unavailable
   .              [ recommended utterances:
   .                        65,103,75,16385,76,74,98        ]
phrase68


appl            - FCBRCS_RAS
hdr_id          - 23
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
   .              RAS identification message
   .              [ recommended utterances:
   .                        51,52                           ]
phrase68


appl            - FCBRCS_RAS
hdr_id          - 24
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
   .              RAS Information Message
   .              [ recommended utterance:
   .                        100                             ]
phrase68


appl            - FCBRCS_RAS
hdr_id          - 25
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
   .              RAS Invalid Code
   .              [ recommended utterances:
   .                        65,94,16385,95,96,98            ]
phrase68


appl            - FCBRCS_RAS
hdr_id          - 26
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
   .              RAS PIN Prompt
   .              [ recommended utterances:
   .                        55,16385,81,56,82,12,54,98      ]
phrase68


appl            - FCBRCS_RAS
```

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```
hdr_id          - 27
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
   .              RAS Feature Prompt
   .              [ recommended utterances:
   .                        58,98                          ]
phrase68


appl            - FCBRCS_RAS
hdr_id          - 28
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
   .              RAS Redial Prompt
   .              [ recommended utterances:
   .                        74,98                          ]
phrase68


appl            - FCBRCS_RAS
hdr_id          - 29
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the RAS phrase:
   .              RAS Feature Code Undefined
   .              [ recommended utterances:
   .                        65,70,16385,71,72,74,98        ]
phrase68


appl            - FCBRCS_RAS
hdr_id          - 30
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .                 for the RAS phrase:
   .                 RAS Verification Message 1
   .                 [ recommended utterances:
   .                        54,98                          ]
phrase68


**************************************************************************/
Population Rules for LASS Screen List Editing


 DESCRIPTION:

Defines the LASS Screen List Editing (SLE) announcements.
DMsle_msg.G may be referenced for a textual description of
announcement.

QUANTITY OF TUPLES: 182 tuples per SM.
```

```
   ================================================================

    5E6 LASS SCREEN LIST EDITING (SLE)
            MESSAGE HEADERS


          appl           - FCLASS_SLE
          hdr_id         - 1
          dur            - (as calculated using the following duration rules)
          phrase01       - Announcement Header Phrase IDs/Commands
             .             for the LASS phrase:
             .             ADDLATER
             .             [ recommended utterances: 303,28,323 ]
          phrase68


          appl           - FCLASS_SLE
          hdr_id         - 2
          dur            - (as calculated using the following duration rules)
          phrase01       - Announcement Header Phrase IDs/Commands
             .             for the LASS phrase:
             .             ADDNUM
             .             [ recommended utterances:
                                 291,28,28,28,324,326,291 ]
          phrase68



          appl           - FCLASS_SLE
          hdr_id         - 3
          dur            - (as calculated using the following duration rules)
          phrase01       - Announcement Header Phrase IDs/Commands
             .             for the LASS phrase:
             .             ADDNUMTO
             .             [ recommended utterances: 324,326,291 ]
          phrase68



          appl           - FCLASS_SLE
          hdr_id         - 4
          dur            - (as calculated using the following duration rules)
          phrase01       - Announcement Header Phrase IDs/Commands
             .             for the LASS phrase:
             .             ALRDYEXT
             .             [ recommended utterances: 383,289,312,296,16385,290
]
          phrase68



          appl           - FCLASS_SLE
          hdr_id         - 5
```

```
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              ALRDYPRV
   .              [ recommended utterances: 383,289,312,384,310,290 ]
phrase68



appl            - FCLASS_SLE
hdr_id          - 6
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              ALRDYPUB
   .              [ recommended utterances: 383,289,312,16385,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 7
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              BAD_CAR
   .              [ recommended utterances: 316,16385,328 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 8
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              BAD_CMD
   .              [ recommended utterances: 303,316,329 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 9
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              BAD_SCA
   .              [ recommended utterances: 316,16385,328 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 10
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
```

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```
   .              BAD_SCF
   .              [ recommended utterances: 316,16385,328 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 11
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              CANCELED
   .              [ recommended utterances: 330,313,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 12
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              CAR_ERRF
   .              [ recommended utterances: 331,304,337,16385 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 13
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              CAR_ERRR
   .              [ recommended utterances: 331,304,336 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 14
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              CAR_OFF
   .              [ recommended utterances: 331,305 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 15
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              CAR_ON
   .              [ recommended utterances: 331,304 ]
phrase68
```

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```
appl            - FCLASS_SLE
hdr_id          - 16
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              CAR_RCRD
   .              [ recommended utterances: 336,28 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 17
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              CONTINUE
   .              [ recommended utterances: 28,28,28,28,340,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 18
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              DELETED
   .              [ recommended utterances: 306,308 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 19
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              DIALAFT
   .              [ recommended utterances: 303,341,342,313,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 20
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              DIAL_CAR
   .              [ recommended utterances: 295,344,314,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 21
dur             - (as calculated using the following duration rules)
```

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```
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              DIAL_SCA
   .              [ recommended utterances: 295,344,314,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 22
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              DIAL_SCF
   .              [ recommended utterances: 345,314,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 23
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              EMPTYLST
   .              [ recommended utterances: 303,306,308,313,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 24
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              END_LIST
   .              [ recommended utterances: 346 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 25
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              EXTADDED
   .              [ recommended utterances: 315,296,16385 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 26
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              EXT_RMVD
   .              [ recommended utterances: 347,296,16385 ]
```

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```
phrase68


appl            - FCLASS_SLE
hdr_id          - 27
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              FRWD_CAR
   .              [ recommended utterances: 337,16385,317,298
                        318,299,314,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 28
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              FRWD_SCA
   .              [ recommended utterances: 337,16385,317,298
                        318,299,314,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 29
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              FRWD_SCF
   .              [ recommended utterances: 348,16385,379,298
                        318,299,314,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 30
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              HANGUP
   .              [ recommended utterances: 303,349,350 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 31
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              INCORRCT
   .              [ recommended utterances: 303,351,313,290 ]
phrase68
```

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```
appl            - FCLASS_SLE
hdr_id          - 32
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              INSTR1
   .              [ recommended utterances: 319,321,26,320,322,26
                        352,291,353,26,354,298,26  ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 33
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              INSTR2
   .              [ recommended utterances:
                     355,356,380,361,374,299,26,314,290 ]
phrase68
```

**10. ANNC_HDR Population rules continued.**

```
appl            - FCLASS_SLE
hdr_id          - 34
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              INSTR3
   .              [ recommended utterances:
                     355,356,381,361,374,299,26,314,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 35
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              INTRUPTD
   .              [ recommended utterances: 303,362,363 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 36
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              LISTFULL
   .              [ recommended utterances: 303,364,290 ]
phrase68
```

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```
                appl            - FCLASS_SLE
                hdr_id          - 37
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              MUSTADD
                   .              [ recommended utterances: 365,366,28,319,295,321,29
0 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 38
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              NAT_CAR
                   .              [ recommended utterances: 338,298,339,299,314,290 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 39
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              NAT_SCA
                   .              [ recommended utterances: 338,298,339,299,314,290 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 40
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              NON_ENTR
                   .              [ recommended utterances: 306,308,369,370,28,28,28
 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 41
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              NON_HIST
                   .              [ recommended utterances: 303,376 ]
                phrase68
```

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```
appl            - FCLASS_SLE
hdr_id          - 42
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              NON_LIST
   .              [ recommended utterances: 303,306,308,313,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 43
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              NON_PRVT
   .              [ recommended utterances: 306,382,311,312,26  ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 44
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              NOTONLST
   .              [ recommended utterances: 385,312,16385,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 45
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              NTONLSTH
   .              [ recommended utterances: 385,312,290 ]
phrase68

appl            - FCLASS_SLE
hdr_id          - 46
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              NTXONLST
   .              [ recommended utterances: 385,312,296,16385,290 ]
phrase68

appl            - FCLASS_SLE
hdr_id          - 47
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              PRVADDED
```

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```
                .             [ recommended utterances: 315,310 ]

             appl           - FCLASS_SLE
             hdr_id         - 48
             dur            - (as calculated using the following duration rules)
             phrase01       - Announcement Header Phrase IDs/Commands
                .             for the LASS phrase:
                .             PRV_ENT1
                .             [ recommended utterances:
                                    292,358,312,369,370,28,28,28 ]
             phrase68


             appl           - FCLASS_SLE
             hdr_id         - 49
             dur            - (as calculated using the following duration rules)
             phrase01       - Announcement Header Phrase IDs/Commands
                .             for the LASS phrase:
                .             PRV_ENT2
                .             [ recommended utterances: 307,16385,311,312,369,370
,28
             phrase68                                  28,28 ]


             appl           - FCLASS_SLE
             hdr_id         - 50
             dur            - (as calculated using the following duration rules)
             phrase01       - Announcement Header Phrase IDs/Commands
                .             for the LASS phrase:
                .             PRV_LST1
                .             [ recommended utterances: 292,358,312,313,290 ]
             phrase68


             appl           - FCLASS_SLE
             hdr_id         - 51
             dur            - (as calculated using the following duration rules)
             phrase01       - Announcement Header Phrase IDs/Commands
                .             for the LASS phrase:
                .             PRV_LST2
                .             [ recommended utterances: 307,16385,311,312,313,290
 ]
             phrase68


             appl           - FCLASS_SLE
             hdr_id         - 52
             dur            - (as calculated using the previous pop rules
             phrase01       - Announcement Header Phrase IDs/Commands
                .             for the LASS phrase:
                .             PRV_RMVD
                .             [ recommended utterances: 347,310 ]
             phrase68
```

```
                appl            - FCLASS_SLE
                hdr_id          - 53
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              PUBADDED
                   .              [ recommended utterances: 315,16385 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 54
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              PUB_ENT1
                   .              [ recommended utterances:
                                        292,357,312,369,370,28,28,28  ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 55
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              PUB_ENT2
                   .              [ recommended utterances: 307,16385,308,369,370,28,
28,28  ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 56
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              PUB_LST1
                   .              [ recommended utterances: 292,357,387 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 57
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              PUB_LST2
                   .              [ recommended utterances: 307,16385,308 ]
                phrase68


                appl            - FCLASS_SLE
```

```
hdr_id          - 58
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              PUB_RMVD
   .              [ recommended utterances: 347,16385 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 59
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              RCRD_CAR
   .              [ recommended utterances: 336,317,298,339
                        299,314,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 60
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              RCRD_SCA
   .              [ recommended utterances: 336,317,298,339
                        299,314,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 61
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              RD_FIRST
   .              [ recommended utterances: 377,16385 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 62
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              RDXFIRST
   .              [ recommended utterances: 377,296,16385 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 63
dur             - (as calculated using the following duration rules)
```

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```
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              RD_NEXT
                   .              [ recommended utterances: 293,16385 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 64
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              RDXNEXT
                   .              [ recommended utterances: 293,296,16385 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 65
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              REJECT
                   .              [ recommended utterances: 26,378,321,300,326 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 66
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              RMV_NUM
                   .              [ recommended utterances: 291,28,28,28,325,327,291
]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 67
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              RMV_INUM
                   .              [ recommended utterances: 325,327,291 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 68
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              SCA_ERRF
```

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```
   .              [ recommended utterances: 333,304,337,16385 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 69
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              SCA_ERRR
   .              [ recommended utterances: 333,304,336 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 70
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              SCA_OFF
   .              [ recommended utterances: 333,305 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 71
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              SCA_ON
   .              [ recommended utterances: 333,304 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 72
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              SCA_RCRD
   .              [ recommended utterances: 336,28 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 73
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              SCF_ERR
   .              [ recommended utterances: 332,304,348,16385 ]
phrase68
```

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```
appl            - FCLASS_SLE
hdr_id          - 74
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              SCF_OFF
   .              [ recommended utterances: 332,305 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 75
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              SCF_ON
   .              [ recommended utterances: 332,304 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 76
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              SCR_OFF
   .              [ recommended utterances: 334,305 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 77
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              SCR_ON
   .              [ recommended utterances: 334,304 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 78
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              SDA_OFF
   .              [ recommended utterances: 335,305 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 79
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
```

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```
   .              for the LASS phrase:
   .              SDA_ON
   .              [ recommended utterances: 335,304 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 80
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              TOO_FEW
   .              [ recommended utterances: 303,367,313,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 81
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              TOO_MANY
   .              [ recommended utterances: 303,368,313,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 82
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              TOT_ENT1
   .              [ recommended utterances: 307,16385
                                308,309,358,369,370,28,28,28  ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 83
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              TOT_ENTX
   .              [ recommended utterances: 307,16385,308 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 84
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              TOT_ENTY
   .              [ recommended utterances: 309,16385,311,369
```

```
                                                370,28,28,28 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 85
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              TOT_LST1
   .              [ recommended utterances: 307,16385,308,309,391 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 86
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              TOT_LSTX
   .              [ recommended utterances: 307,16385,308 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 87
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              TOT_LSTY
   .              [ recommended utterances: 309,16385,386 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 88
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              TURN_OFF
   .              [ recommended utterances: 359,28,371,372
                        373,299,314,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 89
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              TURN_ON
   .              [ recommended utterances: 360,28,371,372
                        373,299,314,290 ]
phrase68
```

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```
appl            - FCLASS_SLE
hdr_id          - 90
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              UNAVAIL
   .              [ recommended utterances: 303,375,313,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 91
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              WLCM_CAR
   .              [ recommended utterances: 297,388 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 92
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              WLCM_SCA
   .              [ recommended utterances: 297,390 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 93
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              WLCM_SCF
   .              [ recommended utterances: 297,389 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 94
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              ADDNUMP
   .              [ recommended utterances:
                         291,28,28,28,324,291 ]
phrase68
```

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```
appl            - FCLASS_SLE
hdr_id          - 95
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              ADDNUMPO
   .              [ recommended utterances:
                         324,291 ]
phrase68



appl            - FCLASS_SLE
hdr_id          - 96
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              DIALAFTP
   .              [ recommended utterances: 303,341,343,313,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 97
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              INSTR1P
   .              [ recommended utterances: 319,302,26,320,301
                        26,352,291,353,26,354,298,26  ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 98
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              MUSTADDP
   .              [ recommended utterances: 365,366,28,319,302,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 99
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              PAUSE
   .              [ recommended utterances: 26 ]
phrase 50


appl            - FCLASS_SLE
```

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```
                hdr_id          - 100
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              REJECTP
                   .              [ recommended utterances: 26,378,302,294,300 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 101
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              RMV_NUMP
                   .              [ recommended utterances: 291,28,28,28,325,291 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 102
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              RMVINUMP
                   .              [ recommended utterances: 325,291 ]
                phrase68

        /*************************************************************************
******
         RECOMMENDED UTTERANCES FOR 2-LEVEL

        For 2-LEVEL, the following utterances are provided as the
        recommended DSU2 announcements.

         UTTERANCE   PHRASES

        1 - 46, 65, 98  Standard phrases

        Application Starts from 104 - the offset value is already added in.


        *        Phrase list for 5E6/5E7  COT/AC Announcements.
     *
        *        Phrase numbers as stored on TN1053 MC5D142A2.
     *
        *************************************************************************
*****/
        Note: The following recommended phrases IDs offset is included
                in the following values.

            1-46          [as specified for flexible digit strings]
             65           We're sorry.
             98           (Prompt tone 3ms of 4HZ tone)
```

```
104          This is
105          your automatic callback service.
106          your call return service.
107          The number of your last incoming call is
108          a private number and cannot be announced.
109          The call was received
110          at
111          To activate
112          automatic callback
113          call return
114          dial 1
115          otherwise hang up.
116          Please dial 1 now or hang up.
117          There will be a charge for this service.
118          Please hang up now.
119          You must dial one to activate
120          the callback.
121          the call return.
122          your customer originated trace service.
123          your call trace service.
124          The charge for this service will be
125          dollar        (flat)
126          dollars       (flat)
127          dollar.       (falling)
128          dollars.      (falling)
129          and
130          cents.        (falling)
131          To trace your last incoming call,
132          You must dial one to trace the call.
133          January
134          February
135          March
136          April
137          May
138          June
139          July
140          August
141          September
142          October
143          November
144          December
145          a.m.
146          p.m.
147          1st
148          2nd
149          3rd
150          4th
151          5th
152          6th
153          7th
154          8th
155          9th
156          10th
157          11th
```

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```
            158          12th
            159          13th
            160          14th
            161          15th
            162          16th
            163          17th
            164          18th
            165          19th
            166          20th
            167          30th
            168          Consult your written instructions and try again later.
            169          If you choose to trace your last incoming call,
            170          you will be charged a fee as described in your instruction
guide.
            171          extension
            172          Customer Originated Trace.
            173          To trace the last call received,
            174          The last incoming number was
            175          This call was received on
            176          To activate Automatic Recall,
            177          The number of your last incoming call was


                appl           - FCLASS_SLE
                hdr_id         - 110
                dur            - (as calculated using the following duration rules)
                phrase01       - Announcement Header Phrase IDs/Commands
                   .             for the LASS phrase:
                   .             ADDLATR
                   .             [ recommended utterances:
                                   303,323 ]
                phrase68


                appl           - FCLASS_SLE
                hdr_id         - 111
                dur            - (as calculated using the following duration rules)
                phrase01       - Announcement Header Phrase IDs/Commands
                   .             for the LASS phrase:
                   .             ADDLATR2
                   .             [ recommended utterances:
                                   303,323,26 ]
                phrase68


                appl           - FCLASS_SLE
                hdr_id         - 112
                dur            - (as calculated using the following duration rules)
                phrase01       - Announcement Header Phrase IDs/Commands
                   .             for the LASS phrase:
                   .             ADD_NUM
                   .             [ recommended utterances:
                                   441,326,26,442,443,326,26,314,290 ]
                phrase68
```

```
appl            - FCLASS_SLE
hdr_id          - 113
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              ALRY_EXT
   .              [ recommended utterances:
                    383,289,387,296,16385 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 114
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              ALRY_PRV
   .              [ recommended utterances:
                    412,289,312,384,310 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 115
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              ALRY_PUB
   .              [ recommended utterances:
                    383,289,387,16385 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 116
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              BADCAR
   .              [ recommended utterances:
                    412,413,16385,414,26 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 117
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              BADCMD
   .              [ recommended utterances:
                    303,415,329 ]
```

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```
phrase68


appl            - FCLASS_SLE
hdr_id          - 118
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              BADSCA
   .              [ recommended utterances:
                    412,413,16385,414,26 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 119
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              BADSCF
   .              [ recommended utterances:
                    412,413,16385,414,26 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 120
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              CANCELD
   .              [ recommended utterances:
                    330 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 121
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              CANCELD2
   .              [ recommended utterances:
                    330,26 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 122
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              CARERRF
   .              [ recommended utterances:
```

```
                    331,304,337,16385 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 123
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              CONTIN0
   .              [ recommended utterances:
                    28,28,28,28,416,417,418,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 124
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              CONTIN0H
   .              [ recommended utterances:
                    28,28,28,28,416,418,417,419,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 125
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              DELETD
   .              [ recommended utterances:
                    306,382,308 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 126
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              DIAL_AFT
   .              [ recommended utterances:
                    303,420,342 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 127
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              DIALCAR
```

```
   .              [ recommended utterances:
                    295,344,294,321,314,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 128
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              DIALSCA
   .              [ recommended utterances:
                    295,344,294,321,314,290 ]
phrase68
```

**11. ANNC_HDR Population rules continued.**

```
appl            - FCLASS_SLE
hdr_id          - 129
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              DIALSCF
   .              [ recommended utterances:
                    345,294,321,314,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 130
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              EMTYLST
   .              [ recommended utterances:
                    303,306,308 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 131
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              EMTYNOW
   .              [ recommended utterances:
                    346,421,28 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 132
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
```

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```
   .              for the LASS phrase:
   .              ENDLIST
   .              [ recommended utterances:
                    346,28 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 133
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              EXTADDE2
   .              [ recommended utterances:
                    315,296,16385,26 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 134
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              EXTRMVD2
   .              [ recommended utterances:
                    347,296,16385,26 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 135
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              FRWDCAR
   .              [ recommended utterances:
                    337,16385,317,298,318,299,314,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 136
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              FRWDSCA
   .              [ recommended utterances:
                    337,16385,317,298,318,299,314,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 137
dur             - (as calculated using the following duration rules)
```

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```
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              FRWDSCF
                   .              [ recommended utterances:
                                    348,16385,379,422,423,424,314,290 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 138
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              INCORCT
                   .              [ recommended utterances:
                                    303,351 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 139
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              INCORCT2
                   .              [ recommended utterances:
                                    303,351,26 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 140
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              INSTOFF
                   .              [ recommended utterances:
                                    359,26,319,321,26,425,322,26,354,422,26,374,424,2
6,314,290 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 141
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              INSTON
                   .              [ recommended utterances:
                                    360,26,319,321,26,425,322,26,354,422,26,374,424,2
6,314,290 ]
                phrase68
```

```
appl            - FCLASS_SLE
hdr_id          - 142
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              LSTFULL
   .              [ recommended utterances:
                    303,364 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 143
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              MUST_ADD
   .              [ recommended utterances:
                    426,427,28,319,295,321,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 144
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              NONENTR
   .              [ recommended utterances:
                    306,308,369,428,419,28,28,28 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 145
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              NONHIST
   .              [ recommended utterances:
                    303,412,429 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 146
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              NONHIST2
   .              [ recommended utterances:
                    303,412,429,26 ]
phrase68
```

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```
appl            - FCLASS_SLE
hdr_id          - 147
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              NOTNLST
   .              [ recommended utterances:
                    385,387 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 148
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              PRADDED2
   .              [ recommended utterances:
                    315,310,26 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 149
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              PRVENT1
   .              [ recommended utterances:
                    292,358,411,369,428,419,28,28,28 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 150
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              PRVENT2
   .              [ recommended utterances:
                    307,16385,311,411,369,428,419,28,28,28 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 151
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              PRVLST1
   .              [ recommended utterances:
                    292,358,411 ]
phrase68
```

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```
appl            - FCLASS_SLE
hdr_id          - 152
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              PRVLST2
   .              [ recommended utterances:
                    307,16385,311,411 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 153
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              PUBADDE2
   .              [ recommended utterances:
                    315,16385,26 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 154
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              PUBENT1
   .              [ recommended utterances:
                    292,357,411,369,428,419,28,28,28 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 155
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              PUBENT2
   .              [ recommended utterances:
                    307,16385,308,369,428,419,28,28,28 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 156
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              PUBLST1
   .              [ recommended utterances:
                    292,357,411,430,26 ]
```

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```
phrase68


appl            - FCLASS_SLE
hdr_id          - 157
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              PUBLST2
   .              [ recommended utterances:
                    307,16385,308,430,26 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 158
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              PUBRMVD2
   .              [ recommended utterances:
                    347,16385,26 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 159
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              RD_SAME
   .              [ recommended utterances:
                    431,16385 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 160
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              RDXSAME
   .              [ recommended utterances:
                    431,296,16385 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 161
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              REJECTL
   .              [ recommended utterances:
```

```
                          378,321,443,432,326,28,28 ]
               phrase68


               appl            - FCLASS_SLE
               hdr_id          - 162
               dur             - (as calculated using the following duration rules)
               phrase01        - Announcement Header Phrase IDs/Commands
                  .              for the LASS phrase:
                  .              RMVNUM
                  .              [ recommended utterances:
                                   433,327,26,434,327,26,435,327,26,374,424,26,314,2
90 ]
               phrase68


               appl            - FCLASS_SLE
               hdr_id          - 163
               dur             - (as calculated using the following duration rules)
               phrase01        - Announcement Header Phrase IDs/Commands
                  .              for the LASS phrase:
                  .              SCAERRF
                  .              [ recommended utterances:
                                   333,304,337,16385 ]
               phrase68


               appl            - FCLASS_SLE
               hdr_id          - 164
               dur             - (as calculated using the following duration rules)
               phrase01        - Announcement Header Phrase IDs/Commands
                  .              for the LASS phrase:
                  .              SCFERR
                  .              [ recommended utterances:
                                   332,304,348,16385 ]
               phrase68


               appl            - FCLASS_SLE
               hdr_id          - 165
               dur             - (as calculated using the following duration rules)
               phrase01        - Announcement Header Phrase IDs/Commands
                  .              for the LASS phrase:
                  .              START0
                  .              [ recommended utterances:
                                   28,28,28,28,313,417,418,290 ]
               phrase68


               appl            - FCLASS_SLE
               hdr_id          - 166
               dur             - (as calculated using the following duration rules)
               phrase01        - Announcement Header Phrase IDs/Commands
                  .              for the LASS phrase:
```

```
   .              START0H
   .              [ recommended utterances:
                    28,28,28,28,313,418,417,419,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 167
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              TOOFEW
   .              [ recommended utterances:
                    303,367 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 168
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              TOOFEW2
   .              [ recommended utterances:
                    303,367,26 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 169
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              TOOMNY
   .              [ recommended utterances:
                    303,368 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 170
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              TOOMNY2
   .              [ recommended utterances:
                    303,368,26 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 171
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
```

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```
   .              for the LASS phrase:
   .              TOTENT1
   .              [ recommended utterances:
                    307,16385,308,309,391,369,428,419,28,28,28 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 172
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              TOTENTX
   .              [ recommended utterances:
                    307,16385,308 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 173
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              TOTENTY
   .              [ recommended utterances:
                    309,16385,386,369,428,419,28,28,28 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 174
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              TOTLST1
   .              [ recommended utterances:
                    307,16385,308,309,391,430,26 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 175
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              TOTLSTX
   .              [ recommended utterances:
                    307,16385,308 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 176
dur             - (as calculated using the following duration rules)
```

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```
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              TOTLSTY
   .              [ recommended utterances:
                    309,16385,386,430,26 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 177
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              TRYOTHER
   .              [ recommended utterances:
                    28,28,28,28,436,417,418,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 178
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              UNAVAL
   .              [ recommended utterances:
                    303,375 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 179
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              UNAVAL2
   .              [ recommended utterances:
                    303,375,26 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 180
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              ADD_NUMP
   .              [ recommended utterances:
                    441,26,442,443,26,314,290 ]
phrase68


appl            - FCLASS_SLE
hdr_id          - 181
```

```
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              DIAL_AFP
                   .              [ recommended utterances:
                                    303,420,437 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 182
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              DIALCARP
                   .              [ recommended utterances:
                                    295,344,314,290 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 183
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              DIALSCAP
                   .              [ recommended utterances:
                                    295,344,314,290 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 184
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              DIALSCFP
                   .              [ recommended utterances:
                                    345,314,290 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 185
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              INSTOFFP
                   .              [ recommended utterances:
                                    359,26,319,438,26,425,439,26,354,422,26,374,424,2
6,314,290 ]
                phrase68
```

```
                appl            - FCLASS_SLE
                hdr_id          - 186
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              INSTONP
                   .              [ recommended utterances:
                                    360,26,319,438,26,425,439,26,354,422,26,374,424,2
6,314,290 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 187
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              MUST_ADP
                   .              [ recommended utterances:
                                    426,427,28,319,438,290 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 188
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              REJECTLP
                   .              [ recommended utterances:
                                    378,440,432,294,443,28,28 ]
                phrase68


                appl            - FCLASS_SLE
                hdr_id          - 189
                dur             - (as calculated using the following duration rules)
                phrase01        - Announcement Header Phrase IDs/Commands
                   .              for the LASS phrase:
                   .              RMVNUMP
                   .              [ recommended utterances:
                                    433,26,434,26,435,26,374,424,26,314,290 ]
                phrase68

        /*************************************************************************

        Population for Automatic Customer Station Rearrangement (ACSR)


        DESCRIPTION:

        Defines the header portion of a Automatic Customer Station
        Rearrangement (ACSR) announcement. Some announcement headers
        may be concatenated together depending upon options selected.
```

```
QUANTITY OF TUPLES:

One tuple is required for each specified Announcement Type
with the Header ID equal to the Announcement Type value.

27 tuples per SM

TUPLE SEMANTICS for FCISDN_ACSR:


appl            - FCISDN_ACSR
hdr_id          - 1
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              request being processed message
   .              (specified by office)
   .              [recommended utterances: 282, 16385]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 3
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              feature completion message
   .              (specified by office)
   .              [recommended utterances: 257, 261]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 4
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              feature reached message
   .              (specified by office)
   .              [recommended utterances: 280, 258]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 5
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              service id request message
   .              (specified by office)
   .              [recommended utterances: 263, 256]
phrase68
```

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```
appl            - FCISDN_ACSR
hdr_id          - 6
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              service will be established message
   .              (specified by office)
   .              [recommended utterances: 273, 16385]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 8
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              pin prompt message
   .              (specified by office)
   .              [recommended utterances: 268, 256]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 9
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              request not complete message
   .              (specified by office)
   .              [recommended utterances: 65, 277]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 12
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              number dialed message
   .              (specified by office)
   .              [recommended utterances: 70, 16385]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 15
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              number unconfirmed message
   .              (specified by office)
   .              [recommended utterance: 276]
```

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```
phrase68


appl            - FCISDN_ACSR
hdr_id          - 17
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              request full message
   .              (specified by office)
   .              [recommended utterances: 65, 278]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 18
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              service denied message
   .              (specified by office)
   .              [recommended utterances: 65, 283, 258]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 20
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              phone replace message
   .              (specified by office)
   .              [recommended utterances: 274, 16385]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 21
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              request not pending message
   .              (specified by office)
   .              [recommended utterances: 275, 16385]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 23
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              feature unavailabel message
   .              (specified by office)
```

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```
   .              [recommended utterances: 257, 260]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 25
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              hold message
   .              (specified by office)
   .              [recommended utterance: 269]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 26
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              request in progress message
   .              (specified by office)
   .              [recommended utterances: 281, 257, 266]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 27
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              request still in progress message
   .              (specified by office)
   .              [recommended utterances: 281, 257, 266, 284, 16385]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 28
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              service established message
   .              (specified by office)
   .              [recommended utterances: 272, 16385]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 29
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              reprogram terminal message
```

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```
   .              (specified by office)
   .              [recommended utterances: 287, 16385]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 34
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              first status check and cancellation message
   .              (specified by office)
   .              [recommended utterances: 280, 393, 395]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 36
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              enter telephone number message
   .              (specified by office)
   .              [recommended utterances: 396, 397, 256]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 37
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              confirm status check message
   .              (specified by office)
   .              [recommended utterances: 398, 16385, 399]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 38
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              cannot check status from this line message
   .              (specified by office)
   .              [recommended utterances: 65, 398, 16385, 400]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 41
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
```

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```
   .              confirm cancellation message
   .              (specified by office)
   .              [recommended utterances: 403, 16385, 404]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 42
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              cannot cancel from this line message
   .              (specified by office)
   .              [recommended utterances: 65, 405]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 43
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              cannot cancel message
   .              (specified by office)
   .              [recommended utterances: 65, 406]
phrase68


appl            - FCISDN_ACSR
hdr_id          - 45
dur             - (as calculated using the following duration rules)
phrase01        - announcement header Phrase IDs/commands
   .              for the ACSR phrase:
   .              move cancelled message
   .              (specified by office)
   .              [recommended utterances: 281, 257, 408]
phrase68

**************************************************************************/

    Population Rules for LASS 2-Level
    Activation of Customer Originated
    Trace (COT) and Automatic Callback (AC)


    DESCRIPTION:

    Defines the LASS COT and AC 2-Level activation announcements.
    DM2l_annc.G may be referenced for a textual description of
    announcement.
```

## 12. ANNC_HDR Population rules continued.

==========

```
5E7 LASS 2-LEVEL ACTIVATION OF CUSTOMER ORIGINATED TRACE (COT)
AND AUTOMATIC CALLBACK (AC) MESSAGE HEADERS

QUANTITY OF TUPLES:

11 tuples per SM.

appl            - FCLS_2LEVEL
hdr_id          - 1
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              ACPRIVND
   .              [ recommended utterances:
   .               104,105,107,108,111,112,114,115,27,116,98 ]
phrase68

appl            - FCLS_2LEVEL
hdr_id          - 2
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              ACPRIVD
   .              [ recommended utterances:
   .               104,105,107,108,109,16387,16388,
   .               111,112,114,115,27,116,98 ]
phrase68

appl            - FCLS_2LEVEL
hdr_id          - 3
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              ACPUBND
   .              [ recommended utterances:
   .               104,105,177,16385,28,27,16386,111,112,
   .               114,115,27,116,98 ]
phrase68

appl            - FCLS_2LEVEL
hdr_id          - 4
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              ACPUBD
   .              [ recommended utterances:
   .                104,105,177,16385,27,28,16386,109,16387,16388,
   .               111,112,114,115,27,116,98 ]
phrase68

appl            - FCLS_2LEVEL
hdr_id          - 5
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
```

```
   .              for the LASS phrase:
   .              ACEXTND
   .              [ recommended utterances:
   .                104,105,177,171,16385,28,27,16386,111,112,114,
   .                115,27,116,98 ]
phrase68

appl            - FCLS_2LEVEL
hdr_id          - 6
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              ACEXTD
   .              [ recommended utterances:
   .                104,105,177,171,16385,28,27,16386,109,16387,
   .                16388,111,112,114,115,27,116,98 ]
phrase68

appl            - FCLS_2LEVEL
hdr_id          - 7
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              ACPRMPT
   .              [ recommended utterances:
   .                119,120,115,27,116,98 ]
phrase68

appl            - FCLS_2LEVEL
hdr_id          - 8
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              COT_CST
   .              [ recommended utterances:
   .                104,122,124,16389,
   .                131,114,115,27,116,98 ]
phrase68

appl            - FCLS_2LEVEL
hdr_id          - 9
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
   .              COT_NOCST
   .              [ recommended utterances:
   .                104,122,117,131,114,115,27,116,98 ]
phrase68

appl            - FCLS_2LEVEL
hdr_id          - 10
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands
   .              for the LASS phrase:
```

```
                .              COTPRMPT
                .              [ recommended utterances:
                .               132,115,27,116,98 ]
            phrase68

            appl            - FCLS_2LEVEL
            hdr_id          - 11
            dur             - (as calculated using the following duration rules)
            phrase01        - Announcement Header Phrase IDs/Commands
                .             for the LASS phrase:
                .             TWOLERR
                .             [ recommended utterances:
                .              65,118,168,28,28,28 ]
            phrase68

         ************************************************************************
/

        /*************************************************************
        Population Rules for Toll Digital Exchange (TDX)


        DESCRIPTION:

        Defines the Toll Digital Exchange (TDX) account code
        collection announcements.

        Tuples with hdr_id 1 through 15 correspond to the announcement:
        "Please enter your x digit account code." where x is equivalent
        to the hrd_id value.  Tuple with hdr_id 16 corresponds to the
        "Thank you." announcement.

        QUANTITY OF TUPLES: 16 tuples per SM.

        TUPLE SEMANTICS for FCTOLL_ACCT:


        appl            - FCTOLL_ACCT
        hdr_id          - 1
        dur             - (as calculated using the following duration rules)
        phrase01          [ recommended utterances:
                                47,2,48    ]
        phrase68

        appl            - FCTOLL_ACCT
        hdr_id          - 2
        dur             - (as calculated using the following duration rules)
        phrase01          [ recommended utterances:
                                47,3,48    ]
        phrase68

        appl            - FCTOLL_ACCT
        hdr_id          - 3
        dur             - (as calculated using the following duration rules)
```

```
phrase01          [ recommended utterances:
                        47,4,48    ]
phrase68

appl            - FCTOLL_ACCT
hdr_id          - 4
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
                        47,5,48    ]
phrase68

appl            - FCTOLL_ACCT
hdr_id          - 5
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
                        47,6,48    ]
phrase68

appl            - FCTOLL_ACCT
hdr_id          - 6
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
                        47,7,48    ]
phrase68

appl            - FCTOLL_ACCT
hdr_id          - 7
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
                        47,8,48    ]
phrase68

appl            - FCTOLL_ACCT
hdr_id          - 8
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
                        47,9,48    ]
phrase68

appl            - FCTOLL_ACCT
hdr_id          - 9
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
                        47,10,48    ]
phrase68

appl            - FCTOLL_ACCT
hdr_id          - 10
dur             - (as calculated using the following duration rules)
phrase01          [ recommended utterances:
                        47,29,48    ]
phrase68

appl            - FCTOLL_ACCT
```

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```
        hdr_id          - 11
        dur             - (as calculated using the following duration rules)
        phrase01          [ recommended utterances:
                                47,30,48    ]
        phrase68

        appl            - FCTOLL_ACCT
        hdr_id          - 12
        dur             - (as calculated using the following duration rules)
        phrase01          [ recommended utterances:
                                47,31,48    ]
        phrase68

        appl            - FCTOLL_ACCT
        hdr_id          - 13
        dur             - (as calculated using the following duration rules)
        phrase01          [ recommended utterances:
                                47,32,48    ]
        phrase68

        appl            - FCTOLL_ACCT
        hdr_id          - 14
        dur             - (as calculated using the following duration rules)
        phrase01          [ recommended utterances:
                                47,33,48    ]
        phrase68

        appl            - FCTOLL_ACCT
        hdr_id          - 15
        dur             - (as calculated using the following duration rules)
        phrase01          [ recommended utterances:
                                47,34,48    ]
        phrase68


        appl            - FCTOLL_ACCT
        hdr_id          - 16
        dur             - (as calculated using the following duration rules)
        phrase01          [ recommended utterances:
                                49            ]
        phrase68


        ****************************************************************/


/*********************************************************************
        Population for Autoplex(R) Variant Recorded Announcements (VARRAF)


        QUANTITY OF TUPLES:

          tuples per SM  = 100 * number of languages defined
```

```
TUPLE SEMANTICS for FCVARRAF:


appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Delayed Call Forwarding Announcement
   .              [ recommended utterances:
   .                 dependent on language indicated ]
phrase68


appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Facilities Problem Announcement
   .              [ recommended utterances:
   .                 dependent on language indicated ]
phrase68


appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for
   .              Invalid Service Code Announcement
   .              [ recommended utterances:
   .                                                  ]
phrase68


appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for
   .              Alert Discontinued Announcement
   .              [ recommended utterances:
   .                                                  ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              No page Response Announcement
   .              [ recommended utterances:
```

```
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              No Roamer Service Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Service Not Allowed Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Call restrictions Announcements
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Special Routing Not Available Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Special Routing Circuits Busy Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
```

```
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Message Recording Service Restrictions Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68


appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              MRS No Message Waiting Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68


appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Fraudulent Roamer Serial Number Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Carrier Not Supported Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              International Carrier Used for Domestic Calls
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
```

```
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Local Exchange Carrier (LEC) Used for Inter-LATA Calls
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Domestic Carrier Used for International Calls
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Inter-LATA Carrier Used for Intra-LATA calls
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Cut-through Calls Not Accepted
   .              [ recommended utterances:
   .                                                    ]
phrase68


appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              10XXX Not Allowed
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              00 Not Allowed Without PIC
```

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```
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              1+ Prefix Required
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules3
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              1+ Prefix Prohibited
   .              [ recommended utterances:
   .                                                    ]
phrase68


appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              PIC Mismatches XXX on 10XXX Call
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Restricted Access Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Virtual System Call Routing Restriction Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68
```

```
appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              EIA Roamer Dialing Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Serial Number Mismatch Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Subscriber Dialing Error Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              System error Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Special cellular Networking Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
```

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```
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Korea Reorder Tone on Announcement Channel
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Korea Intercept Tone on Announcement Channel
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Korea Confirmation Tone on Announcement Channel
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Called Number Been Changed (R2MFC)
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              called Number Is Not Valid (R2MFC)
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Called Party Line is out-of-order (R2MFC)
   .              [ recommended utterances:
```

```
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Congestion at the PSTN Announcement (R2MFC)
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Fraudulent Tumbling ESN Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Originating CNRV Unassigned Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Operator Call Restriction Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Subscriber Line Forwarded Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
```

```
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Subscriber Temporarily Suspended Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              First SPANC Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Second SPANC Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Third SPANC Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Fourth SPANC Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
```

```
   .              Fifth SPANC Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Sixth SPANC Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Seventh SPANC Announcement
   .              [ recommended utterances:
   .                                                    ]
phrase68


appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Automatic Roamer Greeting Announcement
   .              [ recommended utterances:
   .                                        ]
phrase68


appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              IS-53 TWC Wait Announcement/Tone
   .              [ recommended utterances:
   .                                         ]
phrase68


appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS-53A Preferred Language phrase for:
   .              PIN Request Announcement
```

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```
   .              [ recommended utterances:
   .                                                    ]
phrase68


appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              No Route Destination (ISUP)
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              ISG Call Transfer Fail
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language phrase for:
   .              Called Number Rejected (ISUP)
   .              [ recommended utterances:
   .                                                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
```

```
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                   ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                   ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                   ]
phrase68


appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                   ]
phrase68


appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                   ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                   ]
phrase68
```

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```
appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68


appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
```

```
phrase68

appl            - FCVARRAF
hdr_id          - 71
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 72
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 73
dur             - (as calculated using the following duration rules3
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68
```

**13. ANNC_HDR Population rules continued.**

```
appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
```

```
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
```

```
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
```

```
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
```

```
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
   .              [ recommended utterances:
   .                           spare                    ]
phrase68

appl            - FCVARRAF
hdr_id          - 1 thru 131071
dur             - (as calculated using the following duration rules)
phrase01        - Announcement Header Phrase IDs/Commands for
   .              IS 53A Preferred Language
```

```
            .              [ recommended utterances:
            .                              spare                    ]
        phrase68

*************************************************************************/
```

**Attribute:**
appl
**Fullname:**
Application
**Attribute Description:**
Announcement application

**Attribute:**
hdr_id
**Fullname:**
header id
**Attribute Description:**
The header IDs assigned need not be contiguous.
A phraseX value in the range 1-16383, 16600-MAXPHRASEID must exist as a key in the relation RLphrases along with the corresponding appl value.

**Attribute:**
spare1
**Fullname:**
spare1
**Attribute Description:**
Field used for spare.

**Attribute:**
dur
**Fullname:**
duration
**Attribute Description:**
Dur is the expected duration of the digit string.
The value of dur is calculated by mapping code on an insert transaction. Its value is found by looping through the phrase entries until a 0 is encountered as follows:
- for each phrase entry which specifies a Phrase ID (1-16383, 16600-MAXPHRASEID)
  the value of 'dur' in the RLphrases entry corresponding to the Phrase ID and appl specified is added into the running total
- for the values 0, 16385, 16386, 16387, 16388, 16389, 16500 - 16599
  the running total is unaffected.

**Attribute:**

spare2

**Fullname:**

spare2

**Attribute Description:**

Field used for spare and for alignment of tuple.

**Attribute:**

phrase1

**Fullname:**

phrase or command

**Attribute Description:**

At least one non-zero entry must be specified. The end of the phrases is denoted by a zero (0) entry which MUST be present in each tuple. No non-zero entries can exist after this entry.

These values are defined as follows:

| PHRASEX | DESCRIPTION |
|---|---|
| 0 | Defines logical end of Phrase list |
| 1-46 | Digit-string related Phrase IDs (see RLPHRASES Pop Rules) |
| 47-16383 | Application Defined Phrase IDs |
| 16385 | Command - Insert a digit string here |
| 16386 | Command - Repeat the previous digit string here |
| 16387 | Command - date of last incoming call |
| 16388 | Command - time of last incoming call |
| 16389 | Command - number of dollars and cents |
| 16500-16599 | Application-Specific Commands These are defined by applications to have certain meanings. All of these are treated EXACTLY as is 16385. |
| 16600-MAXPHRASEID | Application Defined Phrase IDs |

NOTE: (MAXPHRASEID+1)-65535 are NOT used for phrase IDs but for subsystem specific purposes.

**Attribute:**

phrase[*]

**Fullname:**

phrase or command

**Attribute Description:**

At least one non-zero entry must be specified. The end of the phrases is denoted by a zero (0) entry which MUST be present in each tuple. No non-zero entries can exist after this entry.

These values are defined as follows:

| PHRASEX | DESCRIPTION |
|---|---|

| | |
|---|---|
| 0 | Defines logical end of Phrase list |
| 1-46 | Digit-string related Phrase IDs (see RLPHRASES Pop Rules) |
| 47-16383, | Application Defined Phrase IDs |
| 16385 | Command - Insert a digit string here |
| 16386 | Command - Repeat the previous digit string here |
| 16387 | Command - date of last incoming call |
| 16388 | Command - time of last incoming call |
| 16389 | Command - number of dollars and cents |
| 16500-16599 | Application-Specific Commands These are defined by applications to have certain meanings. All of these are treated EXACTLY as is 16385. |
| 16600-MAXPHRASEID | Application Defined Phrase IDs |

NOTE: (MAXPHRASEID+1)-65535 are NOT used for phrase IDs but for subsystem specific purposes.

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# ANNC_TRL

## 1. Description

This relation contains teh announcement trailer phrase list.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 30 |
| expected number of tuples | 11 |
| density | 63 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| tsbal | DBSPEED |
| permutation type | un_perm |

## 3. Field Layout

```
ANNC_TRL    relid = 754   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     appl        DMANNC_APL   (enum: 4) <--- key
     trl_id      DMANNC_ID    (ulong: 17) <--- key
     spare1      DMUNL11      (ulong: 11)
     dur         DMANNC_DUR   (ulong: 19)
     spare2      DMUNS13      (ushort: 13)
     phrase1     DMPHRASE     (ushort)
     phrase2     DMPHRASE     (ushort)
     phrase3     DMPHRASE     (ushort)
     phrase4     DMPHRASE     (ushort)
     phrase5     DMPHRASE     (ushort)
     phrase6     DMPHRASE     (ushort)
     phrase7     DMPHRASE     (ushort)
     phrase8     DMPHRASE     (ushort)
     phrase9     DMPHRASE     (ushort)
     phrase10    DMPHRASE     (ushort)
     phrase11    DMPHRASE     (ushort)
     phrase12    DMPHRASE     (ushort)
     phrase13    DMPHRASE     (ushort)
     phrase14    DMPHRASE     (ushort)
     phrase15    DMPHRASE     (ushort)
     phrase16    DMPHRASE     (ushort)
     phrase17    DMPHRASE     (ushort)
     phrase18    DMPHRASE     (ushort)
     phrase19    DMPHRASE     (ushort)
     phrase20    DMPHRASE     (ushort)
     phrase21    DMPHRASE     (ushort)
     phrase22    DMPHRASE     (ushort)
     phrase23    DMPHRASE     (ushort)
     phrase24    DMPHRASE     (ushort)
     phrase25    DMPHRASE     (ushort)
     phrase26    DMPHRASE     (ushort)
     phrase27    DMPHRASE     (ushort)
     phrase28    DMPHRASE     (ushort)
     phrase29    DMPHRASE     (ushort)
```

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```
    phrase30    DMPHRASE     (ushort)
    phrase31    DMPHRASE     (ushort)
    phrase32    DMPHRASE     (ushort)
    phrase33    DMPHRASE     (ushort)
    phrase34    DMPHRASE     (ushort)
    phrase35    DMPHRASE     (ushort)
    phrase36    DMPHRASE     (ushort)
    phrase37    DMPHRASE     (ushort)
    phrase38    DMPHRASE     (ushort)
    phrase39    DMPHRASE     (ushort)
    phrase40    DMPHRASE     (ushort)
    phrase41    DMPHRASE     (ushort)
    phrase42    DMPHRASE     (ushort)
    phrase43    DMPHRASE     (ushort)
    phrase44    DMPHRASE     (ushort)
    phrase45    DMPHRASE     (ushort)
    phrase46    DMPHRASE     (ushort)
    phrase47    DMPHRASE     (ushort)
    phrase48    DMPHRASE     (ushort)
    phrase49    DMPHRASE     (ushort)
    phrase50    DMPHRASE     (ushort)
        User, Compacted and Stored Tuple Layout   ANNC_TRL
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |       |                                 |                     |
 0 |  appl |              trl_id             |        spare1       |
   |---------------+---------------+---------------+---------------|
   |                                   |                           |
 4 |                 dur               |          spare2           |
   |---------------+---------------+---------------+---------------|
   |                                 |                             |
 8 |            phrase1              |            phrase2          |
   |---------------+---------------+---------------+---------------|
   |                                 |                             |
12 |            phrase3              |            phrase4          |
   |---------------+---------------+---------------+---------------|
                                     .
                                     .
                                     .
   |---------------+---------------+---------------+---------------|
   |                                 |                             |
100|            phrase47             |            phrase48         |
   |---------------+---------------+---------------+---------------|
   |                                 |                             |
104|            phrase49             |            phrase50         |
   |---------------+---------------+---------------+---------------|
      ( 108 bytes )
```

## 4. Population rules for RLannc_trl

### Relation Description

announcement trailer phrase list

```
/*********************************************************************
 *
 *      POPULATION RULES FOR <<<< RLannc_trl >>>>
 *
 *
 *
 *      Attribute
 *      ---------
 * key  appl     DESCR:
 *               RANGE: One of the enum values defined
 *               in db/DMannc_apl.G
 *               DEFAULT: None
 *
 * key  trl_id   DESCR:.
 *               RANGE: 1-65535
 *               DEFAULT: None
 *
 *      spare1   DESCR: field used for spare
 *               RANGE: 0
 *               DEFAULT: 0
 *
 *      dur      DESCR:
 *               RANGE: 0-7200 (seconds, = 2 hrs)
 *               See below for its calculation
 *               DEFAULT: None
 *
 *      spare2   DESCR: field used for spare and for alignment of tuple
 *               RANGE: 0
 *               DEFAULT: 0
 *
 *      phrase1  DESCR:
 *        .      RANGE: 0-16383, 16385-16389, 16500-MAXPHRASEID
 *                      (NOTE: NOT 16384!)
 *        .      At least one non-zero entry must be specified.
 *        .      The end of the phrases is denoted by a zero (0)
 *        .      entry which MUST be present in each tuple. No
 *        .      non-zero entries can exist after this entry.
 *      phrase50
 *               These values are defined as follows:
 *
 *               PHRASEX         DESCRIPTION
 *               -------         -----------
 *
 *                  0            Defines logical end of Phrase list
 *                1-46           Digit-string related Phrase IDs
 *                               (see RLPHRASES Pop Rules)
 *                47-16383       Application Defined Phrase IDs
 *                16385          Command - Insert a digit string here
 *                16386          Command - Repeat the previous digit
 *                                         string here
 *                16387          Command - Date of last incoming call
 *                16388          Command - Time of last incoming call
 *                16389          Command - number of dollars and cents
```

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```
 *                16500-16599    Application-Specific Commands
 *                               These are defined by applications to
 *                               have certain meanings. All of these
 *                               are treated EXACTLY as is 16385.
 *                16600-MAXPHRASEID  Application Defined Phrase IDs
 *
 *                NOTE: (MAXPHRASEID+1)-65535 are NOT used for
 *                phrase IDs but for subsystem specific purposes.
 *
 *               DEFAULT: 0
 *
 ************************************************************************/
```

DESCRIPTION:

RLannc_trl (for OSPS Directory Assistance Announcements)

Defines the announcement trailers to be concatenated to each Directory Assistance announcement. Two trailers are required: one for the case where the customer is allowed recall, the other for when recall is not allowed.

NOTE:

(1) These trailer IDs must be defined for the FCOSPS_DA application in every SM which is equipped with RAFs/SASs providing OSPS Directory Assistance announcements.

QUANTITY OF TUPLES:

2 tuples per SM.

TUPLE SEMANTICS for FCOSPS_DA:

OSPS DIRECTORY ASSISTANCE
MESSAGE TRAILERS

```
appl            - FCOSPS_DA
trl_id          - 1
dur             - (As calculated using rc-oda rules)
phrase01        - 'Recall Allowed' trailer Phrase IDs
   .              [ recommended utterances:
   .                     47,48                          ]
phrase50


appl            - FCOSPS_DA
trl_id          - 2
dur             - (As calculated using rc-oda rules)
phrase01        - 'No Recall Allowed' trailer Phrase IDs
   .              [ recommended utterances:
```

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```
   .                    47,49                          ]
phrase50


*********************************************************************/
/*********************************************************************
```

Population for OSPS Automated Calling Card Service (ACCS) and OSPS Automated COIN Announcements (ACTS)

NOTE: For ACTS announcements, the following application-specific commands are recognized:

| | | |
|---|---|---|
| 16500 | Command - | Insert a CREDIT digit string |
| 16501 | Command - | Insert a CHARGE DUE digit string |
| 16502 | Command - | Insert a CALL DURATION digit string |

QUANTITY OF TUPLES:

1 tuple per SM for ACCS.
4 tuples per SM for ACTS.

TUPLE SEMANTICS for FCOSPS_TA:

AUTOMATED CALLING CARD SERVICE
MESSAGE TRAILERS

```
appl            - FCOSPS_TA
trl_id          - 1
dur             - (As calculated using pop rules)
phrase01        - Announcement Trailer Phrase IDs/Commands
   .              for the ACCS LIDB phrase for subaccount number
   .              [ recommended utterances:
   .                    154,16385                      ]
phrase50
```

AUTOMATED COIN TOLL SERVICE
MESSAGE TRAILERS

```
appl            - FCOSPS_TA
trl_id          - 101
dur             - (as calculated in rc-oda rules)
phrase01          [ recommended utterances:
   .                    27,113,109                     ]
phrase50
```

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```
appl            - FCOSPS_TA
trl_id          - 102
dur             - (as calculated in rc-oda rules)
phrase01          [ recommended utterances:
   .                     27,113,110                    ]
phrase50


appl            - FCOSPS_TA
trl_id          - 103
dur             - (as calculated in rc-oda rules)
phrase01          [ recommended utterances:
   .                     27,113,111                    ]
phrase50


appl            - FCOSPS_TA
trl_id          - 104
dur             - (as calculated in rc-oda rules)
phrase01          [ recommended utterances:
   .                     27,52                         ]
phrase50


**********************************************************************/
/**********************************************************************

Population Rules for Remote Access Services (RAS) Announcements


DESCRIPTION:

Defines the announcement trailers to be concatenated to each
Remote Access Services announcement. The actual trl_id's
listed here are derived from DMras_id. Call processing will
use this domain and cast the value to a short before accessing
a tuple in this relation. The enumeration name was listed here
because it is more descriptive than the corresponding number.

NOTE: These trailer IDs must be defined for the FCBRCS_RAS
application in every SM which is equipped with RAFs/SASs
providing Remote Access Services announcements.


QUANTITY OF TUPLES:

3 tuples per SM.


TUPLE SEMANTICS for FCBRCS_RAS:
```

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```
appl    - FCBRCS_RAS
trl_id  - 12
dur     - (as calculated in the rc-oda section)
phraseX - RAS dial prompt 1 trailer Phrase IDs
   .      [ recommended utterances:
   .              53,54,98                        ]
   .


appl    - FCBRCS_RAS
trl_id  - 13
dur     - (as calculated in the rc-oda section)
phraseX - RAS dial prompt 2 trailer Phrase IDs
   .      [ recommended utterances:
   .              73,54,98                        ]
   .


appl    - FCBRCS_RAS
trl_id  - 32
dur     - (as calculated in the rc-oda section)
phraseX - RAS dial prompt 3 trailer Phrase IDs
   .      [ recommended utterances:
   .              178,54,98                       ]
   .


appl    - FCBRCS_RAS
trl_id  - 20
dur     - (as calculated in the rc-oda section)
phraseX - RAS Feature Confirmation trailer Phrase IDs
   .      [ recommended utterances:
   .              63,13,64,12,54,98               ]
   .


**********************************************************************/
/**********************************************************************

RLannc_trl (for Automatic Customer Station Rearrangement)


DESCRIPTION:

Defines the announcement trailers to be concatenated to each
Automatic Customer Station Rearrangement announcement.

NOTE:

(1) These trailer IDs must be defined for the FCISDN_ACSR
application in every SM which is equipped with ACSR providing
Automatic Customer Station Rearrangement announcements.
```

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```
QUANTITY OF TUPLES:

18 tuples per SM.


TUPLE SEMANTICS for FCISDN_ACSR:


appl    - FCISDN_ACSR
trl_id  - 2
dur     - (as calculated in the rc-oda section)
phraseX - information 1 trailer
   .      (specified by office)
   .      [recommended utterances: 279]
   .


appl    - FCISDN_ACSR
trl_id  - 7
dur     - (as calculated in the rc-oda section)
phraseX - dialing prompt 1 trailer
   .      (specified by office)
   .      [recommended utterances: 81, 13, 82, 12, 54, 256]
   .


appl    - FCISDN_ACSR
trl_id  - 10
dur     - (as calculated in the rc-oda section)
phraseX - dialing prompt 2 trailer
   .      (specified by office)
   .      [recommended utterance: 267]
   .


appl    - FCISDN_ACSR
trl_id  - 11
dur     - (as calculated in the rc-oda section)
phraseX - service not established trailer
   .      (specified by office)
   .      [recommended utterance: 271]
   .


appl    - FCISDN_ACSR
trl_id  - 13
dur     - (as calculated in the rc-oda section)
phraseX - invalid number redial trailer
   .      (specified by office)
   .      [recommended utterances: 265, 270, 256]
   .


appl    - FCISDN_ACSR
```

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```
trl_id  - 14
dur     - (as calculated in the rc-oda section)
phraseX - invalid telephone number trailer
   .      (specified by office)
   .      [recommended utterances: 265, 271]
   .


appl    - FCISDN_ACSR
trl_id  - 16
dur     - (as calculated in the rc-oda section)
phraseX - service not established trailer
   .      (specified by office)
   .      [recommended utterance: 271]
   .


appl    - FCISDN_ACSR
trl_id  - 19
dur     - (as calculated in the rc-oda section)
phraseX - service denied trailer
   .      (specified by office)
   .      [recommended utterance: 264]
   .


appl    - FCISDN_ACSR
trl_id  - 22
dur     - (as calculated in the rc-oda section)
phraseX - dialing prompt 3 trailer
   .      (specified by office)
   .      [recommended utterances: 81, 13, 82, 12, 262, 256]
   .


appl    - FCISDN_ACSR
trl_id  - 24
dur     - (as calculated in the rc-oda section)
phraseX - service denied trailer
   .      (specified by office)
   .      [recommended utterances: 65, 259]
   .



appl    - FCISDN_ACSR
trl_id  - 30
dur     - (as calculated in the rc-oda section)
phraseX - reprogram terminal trailer
   .      (specified by office)
   .      [recommended utterance: 288]
   .
```

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```
appl    - FCISDN_ACSR
trl_id  - 31
dur     - (as calculated in the rc-oda section)
phraseX - call back message trailer
   .      (specified by office)
   .      [recommended utterances: 285, 279]
   .


appl    - FCISDN_ACSR
trl_id  - 32
dur     - (as calculated in the rc-oda section)
phraseX - job complete message trailer
   .      (specified by office)
   .      [recommended utterance: 286]
   .


appl    - FCISDN_ACSR
trl_id  - 33
dur     - (as calculated in the rc-oda section)
phraseX - minutes phrase trailer
   .      (specified by office)
   .      [recommended utterance: 285]
   .


appl    - FCISDN_ACSR
trl_id  - 35
dur     - (as calculated in the rc-oda section)
phraseX - reached status check message
   .      (specified by office)
   .      [recommended utterance: 394]
   .


appl    - FCISDN_ACSR
trl_id  - 39
dur     - (as calculated in the rc-oda section)
phraseX - cannot check status or cancel message
   .      (specified by office)
   .      [recommended utterance: 401]
   .


appl    - FCISDN_ACSR
trl_id  - 40
dur     - (as calculated in the rc-oda section)
phraseX - reached cancellation message
   .      (specified by office)
   .      [recommended utterance: 402]
   .
```

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```
        appl    - FCISDN_ACSR
        trl_id  - 44
        dur     - (as calculated in the rc-oda section)
        phraseX - cannot cancel message
           .      (specified by office)
           .      [recommended utterance: 407]
           .
        ************************************************************************/
```

**Attribute:**
appl
**Fullname:**
Application
**Attribute Description:**
Announcement application

**Attribute:**
trl_id
**Fullname:**
trailer id
**Attribute Description:**
trailer ID

**Attribute:**
spare1
**Fullname:**
spare1
**Attribute Description:**
Field used for spare.

**Attribute:**
dur
**Fullname:**
duration
**Attribute Description:**
Expected duration of digit string.
The value of dur is calculated by mapping code on an insert transaction. Its value is found by looping through the phrase entries until a 0 is encountered as follows:
- for each phrase entry which specifies a Phrase ID (1-16383, 16600-MAXPHRASEID) the value of 'dur' in the RLphrases entry corresponding to the Phrase ID and appl specified is added into the running total
- for the values 0, 16385, 16386, 16387, 16388, 16389, 16500-16599 the running total is unaffected

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**Attribute:**
spare2
**Fullname:**
spare2
**Attribute Description:**
Field used for spare and for alignment of tuple.

**Attribute:**
phrase1
**Fullname:**
phrase or command
**Attribute Description:**
At least one non-zero entry must be specified.
The end of the phrases is denoted by a zero (0)
entry which MUST be present in each tuple. No
non-zero entries can exist after this entry.

These values are defined as follows:

| PHRASEX | DESCRIPTION |
|---|---|
| 0 | Defines logical end of Phrase list |
| 1-46 | Digit-string related Phrase IDs (see RLPHRASES Pop Rules) |
| 47-16383, | Application Defined Phrase IDs |
| 16385 | Command - Insert a digit string here |
| 16386 | Command - Repeat the previous digit string here |
| 16387 | Command - date of last incoming call |
| 16388 | Command - time of last incoming call |
| 16389 | Command - number of dollars and cents |
| 16500-16599 | Application-Specific Commands These are defined by applications to have certain meanings. All of these are treated EXACTLY as is 16385. |
| 16600-MAXPHRASEID | Application Defined Phrase IDs |

NOTE: (MAXPHRASEID+1)-65535 are NOT used for vphrase IDs but for subsystem specific purposes.

**Attribute:**
phrase[*]
**Fullname:**
phrase or command
**Attribute Description:**
At least one non-zero entry must be specified.
The end of the phrases is denoted by a zero (0)
entry which MUST be present in each tuple. No
non-zero entries can exist after this entry.

These values are defined as follows:

| PHRASEX | DESCRIPTION |
|---|---|

```
  0            Defines logical end of Phrase list
1-46           Digit-string related Phrase IDs
               (see RLPHRASES Pop Rules)
47-16383,      Application Defined Phrase IDs
16385          Command - Insert a digit string here
16386          Command - Repeat the previous digit
                         string here
16387          Command - date of last incoming call
16388          Command - time of last incoming call
16389          Command - number of dollars and cents
16500-16599    Application-Specific Commands
               These are defined by applications to
               have certain meanings. All of these
               are treated EXACTLY as is 16385.
16600-MAXPHRASEID  Application Defined Phrase IDs

NOTE: (MAXPHRASEID+1)-65535 are NOT used for
phrase IDs but for subsystem specific purposes.
```

**Attribute:**

phrase50

**Fullname:**

phrase or command

**Attribute Description:**

At least one non-zero entry must be specified. The end of the phrases is denoted by a zero (0) entry which MUST be present in each tuple. No non-zero entries can exist after this entry.

These values are defined as follows:

```
PHRASEX         DESCRIPTION
-------         -----------
  0             Defines logical end of Phrase list
1-46            Digit-string related Phrase IDs
                (see RLPHRASES Pop Rules)
47-16383,       Application Defined Phrase IDs
16385           Command - Insert a digit string here
16386           Command - Repeat the previous digit
                          string here
16387           Command - Date of last incoming call
16388           Command - Time of last incoming call
16389           Command - number of dollars and cents
16500-16599     Application-Specific Commands
                These are defined by applications to
                have certain meanings. All of these
                are treated EXACTLY as is 16385.
16600-MAXPHRASEID  Application Defined Phrase IDs

NOTE: (MAXPHRASEID+1)-65535 are NOT used for
phrase IDs but for subsystem specific purposes.
```

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# ANNCONV

## 1. Description

This relation is used for the Announced Conversion RC/V 27.97. This relation will have a distribution of Fixed Group (FG), with grp_type of GPD_OSPS, and a grp_id of 4.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| expected number of tuples | 10 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
ANNCONV     relid = 2925  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL


     oaff4       DMUSHORT     (ushort)
     annc_set    DMUNS10      (ushort: 10) <--- key
     oaff2       DMUNS6       (ushort: 6)
     lang_code   DMUNS10      (ushort: 10) <--- key
     oaff1       DMUNS6       (ushort: 6)
     trans_code  DMUNS10      (ushort: 10)
     oaff3       DMUNS6       (ushort: 6)
         User, Compacted and Stored Tuple Layout    ANNCONV
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                   |           |
  0 |             oaff4             |      annc_set     |   oaff2   |
    |---------------+---------------+---------------+---------------|
    |                   |           |                   |           |
  4 |     lang_code     |   oaff1   |     trans_code    |   oaff3   |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLannconv

### Relation Description

RLannconv is used for OSPS 800 Peel Out for Calling Card feature.

RLannconv will be used in 5E13 by the OSPS 800 Peel Out for Calling Card feature, this relation is used to map the new view 27.97.

**Attribute:**

annc_set

**Fullname:**

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First key: Announcement set

**Attribute Description:**

This attribute defines the ANNC SET parameter.

**Attribute:**

oaff1

**Fullname:**

first short attribute.

**Attribute Description:**

Unused

**Attribute:**

lang_code

**Fullname:**

Second key: Language code

**Attribute Description:**

This attribute defines the LANGUAGE CODE parameter.

**Attribute:**

oaff2

**Fullname:**

second short attribute.

**Attribute Description:**

Unused.

**Attribute:**

trans_code

**Fullname:**

translation code.

**Attribute Description:**

This attribute defines the TRANSLATION CODE parameter. The null value for this field is stored as a zero (0) in the relation.

**Attribute:**

oaff3

**Fullname:**

third short attribute.

**Attribute Description:**

Unused.

**Attribute:**

oaff4

**Fullname:**

fourth boolean attribute.

**Attribute Description:**

Unused.

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# APC_INFO

## 1. Description

This relation provides detailed information about an adjacent point code and assigned signaling link codes.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 256 |
| expected number of tuples | 64 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCapc_info |
| insert trigger | DBNO |
| update trigger | DBYES |
| delete trigger | DBNO |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
APC_INFO    relid = 2354  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     apcindx     DMUNS8       (ushort: 8)       <--- key
     lnkindx     DMUNS8       (ushort: 8)
     lsnum       DMUNS8       (ushort: 8)
     slc         DMUNS4       (ushort: 4)       <--- key
     member      DMUNS4       (ushort: 4)
         User, Compacted and Stored Tuple Layout   APC_INFO
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |               |       |       |
  0 |    apcindx    |    lnkindx    |     lsnum     |  slc  | member|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population rules for RLapc_info

### Relation Description

```
        Adjacent point code information

        This relation provides detailed information about an adjacent
        point code and assigned signaling link codes.

        This relation is used by both the National and International
        versions of Standardization Sector (SS7) (formerly CCITT7).
        The global SMs (GSMs) for these two versions
        must be separate, and any partitioned relations, like this one,
        must be populated independently on each GSM. This includes any
        index values retrieved from the RLindx relation that are used to
        populate this relation. RLindx is also GSM partitioned, so the
        proper partitioned data must be used from RLindx when populating
        any attributes in this relation.
```

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**Attribute:**
apcindx
**Fullname:**
Adjacent point code index
**Attribute Description:**
The index assigned to the APC in RLdpc_info.

**Attribute:**
slc
**Fullname:**
Signaling link code
**Attribute Description:**
The Signaling Link Code that identifies a link to the APC.

**Attribute:**
lnkindx
**Fullname:**
Link index
**Attribute Description:**
The index of the signaling link.

**Attribute:**
lsnum
**Fullname:**
Link set number
**Attribute Description:**
Link Set number containing the SLC(R) to the APC.

**Attribute:**
member
**Fullname:**
Member number
**Attribute Description:**
The member number within the link set that is assigned the SLC.

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# APCI_APC

## 1. Description

The Standardization Sector (SS7) (formerly CCITT7) (national and international versions) adjacent point code index is to assigned adjacent signaling point translation relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 255 |
| expected number of tuples | 4 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCapci_apc |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
APCI_APC    relid = 2355  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     apc         DMDPC        (ulong: 24)
     apci        DMAPCI       (uchar)   <--- key
 (a) apcrst_opt  DMRESTOPT    (enum: 2)
         User, Compacted and Stored Tuple Layout   APCI_APC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                       apc                     |      apci     |
    |---------------+---------------+---------------+---------------|
    |   |                                                           |
  4 | a |***********************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLapci_apc

### Relation Description

National Standardization Sector (SS7) (formerly CCITT7) or International SS7 adjacent point code index to assigned adjacent signaling point translation relation

Translate the adjacent destination point code index to the assigned adjacent destination point code.

This relation resides in the National SS7 Global SM (as defined by the Glnatl7sm office parameter) and/or in the International SS7 Global SM (as defined by the Glintl7sm office parameter).

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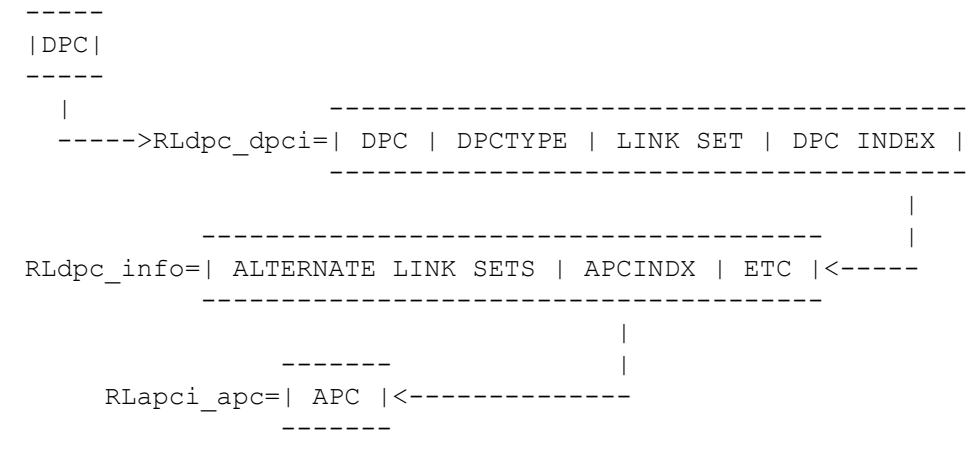
NOTE:

This relation is used by both the National and International versions of Standardization Sector (SS7) (formerly CCITT7). The global SMs (GSMs) for these two versions must be separate, and any partitioned relations, like this one, must be populated independently on each GSM. This includes any index values retrieved from the RLindx relation that are used to populate this relation. RLindx is also GSM partitioned, so the proper partitioned data must be used from RLindx when populating any attributes in this relation.

When a tuple is created for RLdpc_info and the field 'apcindx' (adjacent point code index) is assigned a non-zero value then this relation is populated as follows:

```
        find or create a tuple with a key equal to 'apcindx'
        when_found
                rlapci_apc.apc == RLdpc_dpci.dpc
```




Then the contents of apc holds the original DPC.

**Attribute:**
apci
**Fullname:**
Adjacent Point Code Index
**Attribute Description:**
The index assigned to an adjacent point code.

**Attribute:**
apc
**Fullname:**
Adjacent Point Code
**Attribute Description:**
This attribute corresponds to the Adjacent Point Code associated with the APC Index.

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**Attribute:**
apcrst_opt
**Fullname:**
Adjacent Point Code
**Attribute Description:**
This attribute which MTP restart option is currently defined for the APC.

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# APCONF

## 1. Description

This relation indicates whether certain features or hardware units are permitted for a given office configuration and SM configuration. The relation contains a tuple for each combination of SM configuration and feature; the relation also contains tuples containing the appropriate mask for an office type. The process of and-ing the office type mask with the tuple for a feature/hardware unit will yield either a true (nonzero) or false (zero) indication of whether the feature/hardware is permitted. This relation is pre-populated by a tool during load building and distributed to ODA. In cannot be permuted; it must remain as "un_perm" permutation. It has a distribution of disk only since ODA is the only current user of the relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 512 |
| expected tuples | 400 |
| access type | DBACC_CIND |
| memory type | DBDISK |
| distribution | DO |
| relation type | DBSTATIC |
| permutation type | un_perm |
| ks key store | DBNO |

## 3. Field Layout

```
APCONF      relid = 2150  DBSTATIC   DBACC_CIND  DBDISK    DO      DDBM

     smconfig    DMSMCONFIG   (enum: 8)     <--- key, not stored
     feature     DMAPPERM     (enum)     <--- key, not stored
     ofcmap      DMHEX32      (ulong)

         User and Compacted Tuple Layout     APCONF
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |    smconfig   |    feature    |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             ofcmap                            |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )

     ofcmap      DMHEX32      (ulong)

           Stored Tuple Layout   APCONF
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                             ofcmap                            |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLapconf

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There are no population rules for this relation.

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# APP2TSP

## 1. Description

This relation maps the circuit name of an application (such as PCRDTDS1) to the circuit name of the transport facility it rides on (such asPCDS1SFAC). It is the inverse mapping of RLtsp2app.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2016 |
| expected tuples in relation | 672 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | DBapp2tsp_trg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
APP2TSP     relid = 2732  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     app_name    DMCIRCUIT    (ushort) <--- key
     tsp_name    DMCIRCUIT    (ushort)
     tsp_type    DMCKTTYPE    (enum)
     unitno      DMUNITNO     (ushort: 8)
     unittype    DMUNITTYPE   (enum: 7)
         User, Compacted and Stored Tuple Layout    APP2TSP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            app_name           |            tsp_name           |
    |---------------+---------------+---------------+---------------|
    |                               |               |             | |
  4 |            tsp_type           |     unitno    |   unittype  |*|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLapp2tsp

**Relation Description**

```
        Application to Transport mapping

        relation maps the circuit name of an application
        (such as RISLU2 DFI) to the circuit name of the transport
        facility it rides on (such as PCT tributary).  It is the
        inverse mapping of RLtsp2app.  Note that tributaries
        used for trunking will not have an entry here.

        Note that an application can have its transport changed
        without having to degrow the application on the old
```

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transport and then regrowing the application on the new transport. The transports need to be OOS when they are switched.

**Attribute:**
app_name
**Fullname:**
Application circuit name
**Attribute Description:**
(key) circuit name of the application.

**Attribute:**
tsp_name
**Fullname:**
Transport circuit name
**Attribute Description:**
circuit name of the transport facility supporting the application

**Attribute:**
tsp_type
**Fullname:**
Transport type
**Attribute Description:**
circuit type of the transport facility supporting the application

**Attribute:**
unitno
**Fullname:**
Unit number
**Attribute Description:**
unit number of the transport facility supporting the application

**Attribute:**
unittype
**Fullname:**
Unit type
**Attribute Description:**
unit type of the transport facility supporting the application

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# APPFGRP

## 1. Description

This relation specifies the private feature/facility groups with AP interactions.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 300 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | EADAS |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
APPFGRP     relid = 735   DBSTATIC   DBACC_HASH  DBPRAM    LP      EADAS


    gcsrid      DMUNS16      (ushort)     <--- key
    grpnum      DMFACID      (ushort)     <--- key
    apid        DMAPSITE     (ushort: 8)     <--- key
    grptype     DMAPPFTYPE   (enum: 5)     <--- key
(a) fmuse       DMBOOL       (enum: 1)
(b) tduse       DMBOOL       (enum: 1)
(c) acause      DMBOOL       (enum: 1)
(d) msactive    DMBOOL       (enum: 1)
(e) nlactive    DMBOOL       (enum: 1)
(f) shtactive   DMBOOL       (enum: 1)
(g) lhtactive   DMBOOL       (enum: 1)
(h) mdruse      DMBOOL       (enum: 1)

        User, Compacted and Stored Tuple Layout    APPFGRP
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             gcsrid            |             grpnum            |
   |---------------+---------------+---------------+---------------|
   |               |         | | | | | | | | |                     |
 4 |      apid     | grptype |a|b|c|d|e|f|g|h|*********************|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population rules for RLappfgrp

### Relation Description

Private feature/facility groups with Application Processor (AP) interactions

This relation specifies the private feature or facility groups a given business customer owns with respect to AP features.

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For 5E3(1), three AP features use this relation: Facilities Management (FM), Traffic Data (TD) and Automatic Circuit Assurance (ACA).

For a given gcsrid/apid pair, the tuples in this are made up of the union of:

(1) All groups whose data may be manipulated by business customer=gcsrid via the FM feature running on AP=apid.

(2) All groups which may have traffic measurements taken and forwarded to AP=apid for business customer=gcsrid.

(3) All trunk groups which may have ACA performed on them, and the output sent to AP=apid for business customer=gcsrid.

**Attribute: gcsrid**

**Fullname:** Business customer ID

**Attribute Description:** See relation general info.

**Attribute: apid**

**Fullname:** Applications processor ID (APID)

**Attribute Description:** Must be tuple in RLcmapdata with RLcmapdata.site_id = apid.

**Attribute: grptype**

**Fullname:** Type of private feature/facility

**Attribute Description:** Dependencies:

(1) If grptype = MSARSG, there must be tuple in RLargp with RLargp.ar_gpid = grpnum

(2) If grptype = MSIDPG, there must be tuple in RLidp_gp with RLidp_gp.idp_gpid = grpnum

(3) If grptype = MSTERMG, there must be tuple in RLdb_amgpd such that RLdb_amgpd.grp_type = GPDTG, RLdb_amgpd.grp_id = grpnum

(4) If grptype = MSMDRG, there must be a tuple in RLmdr_gp such that RLmdr_gp.gcsrid = gcsrid, RLmdr_gp.ap_id = apid, RLmdr_gp.mdr_gpid = grpnum

(5) If grptype = MSACCTG, there must be a tuple in RLacct_gp such that RLacct_gp.gpid = grpnum

(6) If grptype = MSAUTHG, there must be a tuple in RLath_grp such that RLath_grp.athgpid = grpnum

(7) If grptype = MSTODG, there must be a tuple in RLtd_sched such that RLtd_sched.td_id = grpnum

(8) If grptype = MSSFG, there must be a tuple in Rlrt_sfg such that RLrt_sfg.grpnum = grpnum

(9) If grptype = MSTRKG, there must be a tuple in Rlrt_trkg such that RLrt_trkg.grpnum = grpnum

(10) If grptype = MSMLHG, there must be a tuple in Rlrt_mhg such that RLrt_mhg.grpnum = grpnum

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(11) If grptype = MSMQSF, there must be a tuple in Rlrt_sfg such that RLrt_sfg.grpnum = grpnum, RLrt_sfg.q_alwd = DBYES

(12) If grptype = MSMQT, there must be a tuple in Rlrt_trkg such that RLrt_trkg.grpnum = grpnum, RLrt_trkg.q_alwd = DBYES

(13) If grptype = MSMQHG, there must be a tuple in Rlrt_mhg such that RLrt_mhg.grpnum = grpnum, RLrt_mhg.q_ing = DBYES

(14) If grptype = MSATTG, there must be a tuple in RLgroup_port such that RLgroup_port.grptype = TM_LINE RLgroup_port.grpnum = grpnum RLgroup_port.member = 1 and there must be a tuple in RLfc_porttyp such that RLfc_porttyp.port = RLgroup_port.port RLfc_porttyp.servclass = FC_ATTENDANT or FC_ISATND

(15) If grptype = MSARSPAT, there must be a tuple in RLarscrn such that RLarscrn.mc_ri1|RLarscrn.mc_ri2|RLarscrn.mc_ri3| RLarscrn.mc_ri4|RLarscrn.mc_ri5|RLarscrn.mc_ri6 = grpnum

(16) If grptype = MSMLHGQC there must be a tuple in RLrt_mhg such that RLrt_mhg.grpnum = grpnum, RLrt_mhg.isat_idx != 0.

(17) If grptype = MSMLHGAC there must be a tuple in RLrt_mhg such that RLrt_mhg.grpnum = grpnum, RLrt_mhg.isat_idx != 0.

**Attribute: grpnum**

**Fullname:** Group number

**Attribute Description:** Identifies the group number of the private feature/facility group within the switch. range:

```
1-65535, if grptype= MSARSG|MSIDPG|MSTERMG|MSAUTHG|
                     MSACCTG|MSTODG|MSMDRG:
1-AVRIMAX(), if grptype=MSARSPAT
1-AVMLHGRPS(), if grptype = MSMLHG|MSMQHG|MSATTG|
                            MSMLHGQC|MSMLHGAC
1-AVSFGGRPS(), if grptype = MSSFG|MSMQSF
1-AVTRKGRPS(), if grptype = MSTRKG|MSMQT

Dependencies:
1) If grptype= MSARSG|MSIDPG|MSAUTHG|MSACCTG|
               MSTODG|MSMDRG:
   grpnum corresponds to the internal group number
   as specified in RLfacname
2) also see dependencies for grptype field
```

**Attribute: fmuse**

**Fullname:** Tuple vaild for facilities management use

**Attribute Description:** Dependencies:

If fmuse=DBYES, then there must be a tuple in RLfmassign such that RLfmassign.gcsrid = gcsrid and RLfmassign.apid = apid.

**Attribute: tduse**

**Fullname:** Tuple valid for traffic data to customer location feature

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**Attribute Description:** Dependencies:

(1) If tduse = DBYES, then there must be a tuple in RLtdassign such that RLtdassign.gcsrid = gcsrid and RLtdassign.apid = apid.

(2) tduse cannot be DBYES if grptype=MSAUTHG| MSACCTG|MSTODG|MSMDRG|MSARSG

**Attribute: acause**

**Fullname:** Tuple valid for automatic circuit assurance

**Attribute Description:** Dependencies:

(1) If acause = DBYES, then there must be a tuple in RLtdassign such that RLtdassign.gcsrid = gcsrid and RLtdassign.apid = apid.

(2) acause can be DBYES only if grptype = MSTRKG.

(3) If acause=DBYES, then there must be a tuple in RLrctgrprk such that RLrctgrprk.portgrp.grpnum = grpnum and RLrctgrprk.servclass != FC_RAFANNC or FC_RAFDTA or FC_RAFCTR

**Attribute: msactive**

**Fullname:** Measurements active flag

**Attribute Description:** Indicates whether or not traffic measurements for this group are being sent to the AP.

Dependencies:

(1) msactive can be DBYES only if tduse=DBYES

(2) If msactive = DBYES and grptype = MSATTG, grpnum must be listed in RLms_att

(3) If msactive = DBYES and grptype = MSIDPG, grpnum must be listed in RLms_idp

(4) If msactive = DBYES and grptype = MSMLHG, grpnum must be listed in RLms_mlhg

(5) If msactive = DBYES and grptype = MSTERMG, grpnum must be listed in RLms_tgsr

(6) If msactive = DBYES and grptype = MSSFG, grpnum must be listed in RLms_pfa

(7) If msactive = DBYES and grptype = MSMQHG, grpnum must be listed in RLms_qu in a tuple with gptyp = TM_QLINE

(8) If msactive = DBYES and grptype = MSMQSF, grpnum must be listed in RLms_qu in a tuple with gptyp = TM_QSFG

(9) If msactive = DBYES and grptype = MSMQT, grpnum must be listed in RLms_qu in a tuple with gptyp = TM_QTRK

(10) If msactive = DBYES, there must be a tuple in RLtdassign with RLtdassign.gcsrid = gcsrid, RLtdassign.apid = apid and RLtdassign.tdactive = DBYES

(11) No dependencies for other grptypes

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**Attribute: nlactive**

**Fullname:** Nonusage trunk scan (NUTS)/locked-up trunk scan (LUTS) active flag

**Attribute Description:** Indicates whether or not NUTS/LUTS scanning is active.

Dependencies:

(1) nlactive can be DBYES only if grptype = MSTRKG and acause = DBYES

(2) If grptype = MSTRKG, there must be a tuple in RLrt_trkg with RLrt_trkg.grpnum = grpnum RLrt_trkg.nlactive = nlactive

(3) If nlactive = DBYES, there must be a tuple in RLtdassign with RLtdassign.gcsrid = gcsrid RLtdassign.apid = apid RLtdassign.acaactive = DBYES

**Attribute: shtactive**

**Fullname:** Short holding time (SHT) active flag

**Attribute Description:** Indicates whether or not SHT monitoring is active.

Dependencies:

(1) shtactive can be DBYES only if grptype = MSTRKG and acause = DBYES

(2) If shtactive = DBYES, there must be a tuple in RLrt_trkg with RLrt_trkg.grpnum = grpnum RLrt_trkg.sht_thres > 0

(3) If shtactive = DBYES, there must be a tuple in RLtdassign with RLtdassign.gcsrid = gcsrid RLtdassign.apid = apid RLtdassign.acaactive = DBYES

(4) If grptype = MSTRKG and shtactive = DBNO, there must be a tuple in RLrt_trkg with RLrt_trkg.grpnum = grpnum RLrt_trkg.sht_thres = 0

**Attribute: lhtactive**

**Fullname:** Long holding time (LHT) active flag

**Attribute Description:** Indicates whether or not LHT monitoring is active.

Dependencies:

(1) lhtactive can be DBYES only if grptype = MSTRKG and acause = DBYES

(2) If lhtactive = DBYES, there must be a tuple in RLrt_trkg with RLrt_trkg.grpnum = grpnum RLrt_trkg.lht_thres > 0

(3) If lhtactive = DBYES, there must be a tuple in RLtdassign with RLtdassign.gcsrid = gcsrid RLtdassign.apid = apid RLtdassign.acaactive = DBYES

(4) If grptype = MSTRKG and lhtactive = DBNO, there must be a tuple in RLrt_trkg with RLrt_trkg.grpnum = grpnum RLrt_trkg.lht_thres = 0

**Attribute: mdruse**

**Fullname:** Message detail recording (MDR) use

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**Attribute Description:** 'mdruse' must be set to DBYES in order for MDR records of the trunk group to be generated in the AP.

If any member in the trunk group has MDR assigned then 'mdruse' must be set to DBYES using Recent Change so MDR information will be sent to AP via FM/boot switch redundant data process.

If 'mdruse' is set to DBYES then grptype must be MSTRKG

**Defines:** "db/DMnxx.h",
"db/DMnpanxx.h",
"db/DMlocdig.h",
"db/DMnpa.h"

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# APPL_PLAT

## 1. Description

This relation defines the CCS signaling platform used by each TCAP application. If the PSU based signaling is used, the relation identifies the GSM number and its point code. If the CNI is used, the relation identifies the CNI point code.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| expected tuples in relation | 8 |
| density | 63 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
APPL_PLAT   relid = 2750  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL

     pc          DMPT_CODE    (ulong: 24)
     sm          DMMODULE     (ushort: 8)     <--- key
     psu_mod     DMMODULE     (ushort: 8)
     appl        DMDS_APP     (enum: 5)     <--- key

         User, Compacted and Stored Tuple Layout  APPL_PLAT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                       pc                      |       sm      |
    |---------------+---------------+---------------+---------------|
    |               |         |                                     |
  4 |    psu_mod    |   appl  |*************************************|
    |---------------+---------------+---------------+---------------|
                      ( 8 bytes )
```

## 4. Population Rules for RLappl_plat

**Relation Description:** TCAP Application to CCS signaling platform.

This relation defines the CCS signaling platform used by each TCAP application. If PSU based signaling is used, the relation identifies the GSM number and the GSM point code. If CNI based signaling is used, the relation identifies the CNI point code.

**Attribute: appl**

**Fullname:** TCAP Application

**Attribute Description:** This attribute contains the TCAP application name.

**Attribute: sm**

**Fullname:** Switching Module

**Attribute Description:** This attribute contains the switching module number.

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**Attribute: psu_mod**

**Fullname:** PSU Module

**Attribute Description:** The psu_mod attribute defines whether the CCS platform is the CNI or PSU. If the CNI is used for CCS signaling, psu_mod is set to zero; if PSU-based signaling is used, psu_mod is set to the GSM number.

**Attribute: pc**

**Fullname:** Point Code

**Attribute Description:** The point code of the GSM or the CNI.

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# APSITE

## 1. Description

RLapsite provides a translation from the ap_index and the internal SM representation for the AP.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 30 |
| expected number of tuples | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | MSGD |
| relation type | DBSTATIC |

## 3. Field Layout

```
APSITE      relid = 845   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    MSGD

     site_id     DMAPSITE     (ushort: 8)     <--- key
     apindex     DMAPINDX     (ushort: 7)

         User and Compacted Tuple Layout     APSITE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |             |                                 |
  0 |    site_id    |   apindex   |*********************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )

     site_id     DMAPSITE     (ushort: 8)     <--- key
     apindex     DMAPINDX     (ushort: 7)

           Stored Tuple Layout   APSITE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |             |                                 |
  0 |    site_id    |   apindex   |*********************************|
    |---------------+---------------+---------------+---------------|
                               ( 2 bytes )
```

## 4. Population Rules for RLapsite

**Relation Description:** Site id to application processor (AP) index.

This relation provides a translation from the site_id to the apindex. Starting in Generic 5E3, ISDN SM can host Application Processors with 'site_id's from 1 to 255. The maximum number of APs per SM is 10. The maximum number of APs per SM-2000 is 30. For each AP on a SM or SM-2000, this relation has one tuple which associates the site_id and apindex.

**Attribute: site_id**

**Fullname:** Site id

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**Attribute Description:** Site identification number of the AP. The site identification number can be any number from 1 to 255 and must uniquely identify the AP to the *5ESS*®-2000 switch. Each tuple in this relation must have a corresponding tuple in RLcmapdata. For either the AM or a given SM, the site_id field will be populated from the RLcmapdata.site_id value.

**Attribute: apindex**

**Fullname:** AP index

**Attribute Description:** AP index for *5ESS*®-2000 switch use. The AP index is an integer between 1 and AVOFAPMAX (99), and is used by the AP communication package to refer to the AP. This number must be unique to each site identifier. For either the AM or a given SM, the apindex field will be populated from the RLcmapdata.apindex value. APs hosted by AM IOP data links are no longer supported. APs hosted by ISDN SMs or SM-2000s will have apindex values from 4 to AVOFAPMAX (99).

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# APXAMAP

## 1. Description

Mapping of *Autoplex*® executive cellular processor (ECP) announcement identification number to *5ESS*®-2000 switch route index.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 127 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
APXAMAP     relid = 2065  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL

     ri_bi       DMRTEIDX     (ushort: 12)
     ri_nonbi    DMRTEIDX     (ushort: 12)
     treat       DMTREAT      (enum)
     apx_annc    DMUNS7       (ushort: 7)     <--- key

         User, Compacted and Stored Tuple Layout    APXAMAP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                         |       |                         |       |
  0 |          ri_bi          |*******|         ri_nonbi        |*******|
    |---------------+---------------+---------------+---------------|
    |                 |               |                               |
  4 |      treat      |   apx_annc    |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLapxamap

### Relation Description

This relation defines the mapping between the *Autoplex*® executive cellular processor (ECP) announcement identification number and *5ESS*®-2000 switch route index.

**Attribute: apx_annc**

**Fullname:** *Autoplex*® announcement (key)

**Attribute Description:** The is the announcement identification number received by the *5ESS*®-2000 switch from the ECP.

**Attribute: treat**

**Fullname:** Treatment.

**Attribute Description:** This is the *5ESS*®-2000 switch fixed route type appropriate for the announcement.

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**Attribute: ri_bi**

**Fullname:** Route index for barge-in

**Attribute Description:** This is the *5ESS*®-2000 switch route index for barge-in.

**Attribute: ri_nonbi**

**Fullname:** Route index for non barge-in

**Attribute Description:** This is the *5ESS*®-2000 switch route index for non barge-in.

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# APXTMAP

## 1. Description

Mapping of the *Autoplex*® ECP tone identification number to the tone enumeration.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 31 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key stored | AUTO |

## 3. Field Layout

```
APXTMAP     relid = 2066  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL

     apx_tone    DMUNS5       (ushort: 5)     <--- key, not stored
     pctone      DMPCSIGNAL   (enum)

         User and Compacted Tuple Layout    APXTMAP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |          |                                                    |
  0 | apx_tone|****************************************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             pctone            |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )

     pctone      DMPCSIGNAL   (enum)

           Stored Tuple Layout      APXTMAP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             pctone            |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLapxtmap

### Relation Description

*Autoplex*® tone map

This relation defines the mapping between the *Autoplex*® executive cellular processor (ECP) tone identification number and *5ESS*®-2000 switch tone enumeration.

**Attribute: apx_tone**

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**Fullname:** *Autoplex*® tone (key)

**Attribute Description:** The is the tone identification number received by the *5ESS*®-2000 switch from the ECP.

**Attribute: pctone**

**Fullname:** Peripheral Control Tone

**Attribute Description:** This is the *5ESS*®-2000 switch tone enumeration.

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# AQTE_ADP

## 1. Description

Static relation used by OSPS to map the autoquote analog-mate line port to its digital subscriber line (DSL) port.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 18 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
AQTE_ADP    relid = 925   DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL

     anl_port    DMPORT       (ushort)     <--- key
     dig_port    DMPORT       (ushort)

         User, Compacted and Stored Tuple Layout   AQTE_ADP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            anl_port           |            dig_port           |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLaqte_adp

**Relation Description:** Autoquote.

Static relation used by OSPS to map the autoquote analog-mate line port to its digital subscriber line (DSL) port. This relation depends on the values in the relation RLfc_porttyp which contains all the ports in the office. If a port is deleted from RLfc_porttyp and that same port exists in this relation then it should be deleted from this relation also. Also the relation RLaqte_dap must be updated with the attributes reversed from this relation at the time of update.'

**Attribute: anl_port**

**Fullname:** Autoquote analog-mate line port

**Attribute Description:** This attribute is the local port number of the autoquote analog-mate line port.

**Attribute: dig_port**

**Fullname:** DSL port

**Attribute Description:** This attribute is the local port number of autoquote DSL.

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# AQTE_DAP

## 1. Description

Static relation used by OSPS to map the digital subscriber line (DSL) port to its autoquote analog-mate line port.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 18 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
AQTE_DAP    relid = 926   DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL

     dig_port    DMPORT       (ushort)     <--- key
     anl_port    DMPORT       (ushort)

         User, Compacted and Stored Tuple Layout   AQTE_DAP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            dig_port           |            anl_port           |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLaqte_dap

**Relation Description:** Autoquote Digital to Analog Port.

Static relation used by OSPS to map the digital subscriber line (DSL) port to its autoquote analog-mate line port. This relation depends on the values in the relation RLfc_porttyp which contains all the ports in the office. If a port is deleted from RLfc_porttyp and that same port exists in this relation then it should be deleted from this relation also. Also the relation RLaqte_adp must be updated with the attributes reversed from this relation at the time of update. This relation has no intra relation dependencies.

**Attribute: dig_port**

**Fullname:** digital port

**Attribute Description:** This attribute is the local port number of the autoquote DSL port.

**Attribute: anl_port**

**Fullname:** Analog port

**Attribute Description:** This attribute is the local port number of the autoquote analog-mate line port.

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# AR_CF

## 1. Description

LASS Automatic Recall feature constructed feature options - used in SM. These constructed features can be assigned to analog and ISDN terminals for voice calls. Use of AR with CSD calls can only be assigned for use with ISDN terminals on Standard BRIs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| expected number of tuples | 7 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
AR_CF       relid = 1102  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL

     feat_id     DMFID        (ushort: 10)     <--- key, not stored
     actvn       DMMC_ACTYP   (enum: 3)
  (a) dctvn      DMMC_DCTYP   (enum: 2)
  (b) ama_rec    DMBOOL       (enum: 1)
  (c) filtr_op   DMBOOL       (enum: 1)
  (d) voice_alw  DMBOOL       (enum: 1)
  (e) data_alw   DMBOOL       (enum: 1)

         User and Compacted Tuple Layout  AR_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  0 |      feat_id      |*******************************************|
    |---------------+---------------+---------------+---------------|
    |     |   | | | | |                                           |
  4 |actvn| a |b|c|d|e|*******************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )

     actvn       DMMC_ACTYP   (enum: 3)
  (a) dctvn      DMMC_DCTYP   (enum: 2)
  (b) ama_rec    DMBOOL       (enum: 1)
  (c) filtr_op   DMBOOL       (enum: 1)
  (d) voice_alw  DMBOOL       (enum: 1)
  (e) data_alw   DMBOOL       (enum: 1)

           Stored Tuple Layout    AR_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |     |   | | | | |                                           |
  0 |actvn| a |b|c|d|e|*******************************************|
    |---------------+---------------+---------------+---------------|
```

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```
( 2 bytes )
```

## 4. Population Rules for RLar_cf

**Relation Description:** LASS Automatic Recall Constructed Feature.

This relation gives LASS Automatic Recall constructed feature information used in the SM. These constructed features can be assigned to analog and ISDN terminals.

**Attribute: feat_id**

**Fullname:** feature identification

**Attribute Description:** A BRCS constructed feature id consists of a modular feature type and a unique identifier. For an Automatic Recall constructed feature, the modular feature type is MFAR which is an enumeration of type DMmftype. The feature id must have a class of FACBRCS and a subclass of SCL_FEAT. If the feature is offered on a generally available basis, the feature id must also have a class of FACBRCS and a subclass of SCL_FEAT.

**Attribute: actvn**

**Fullname:** activation

**Attribute Description:** Method of feature activation. This is an enumeration of type DMmc_actyp. This feature is not able to be activated (customer cannot activate via a dialed code or feature button) for 5E5 so that actvn always has the value ACTNONE. Future generics may allow this feature to be activated via dialed codes or feature buttons.

**Attribute: dctvn**

**Fullname:** deactivation

**Attribute Description:** Method of feature deactivation. This is an enumeration of type DMmc_dctyp. This feature is not able to be deactivated (customer cannot deactivate via a dialed code or feature button) for 5E5 so that dctvn always has the value DCTNONE. Future generics may allow this feature to be deactivated via dialed codes or feature buttons.

**Attribute: ama_rec**

**Fullname:** billing type

**Attribute Description:** Type of billing to be performed. This is an enumeration of type DMbool. This billing can be done on a flat rate or usage sensitive basis according to how the subscribing user prefers to be billed or how the service provider decides it will bill if the feature is universally available. If ama_rec is set to DBYES, the billing will be done on a usage sensitive basis whereas if it is set to DBNO, the billing will be done on a flat rate basis. ama_rec applies equally to whatever call types this AR feature applies to (voice, CSD, or both) as indicated by voice_alw and data_alw.

**Attribute: filtr_op**

**Fullname:** filter options

**Attribute Description:** This is a boolean value which will be used to indicate whether or not this feature is restricted to intra-terminal group only. This attribute should be initially populated with DBNO. If this attribute is set to DBYES, then the feature will be restricted to intra-terminal group only.

**Attribute: voice_alw**

**Fullname:** voice allow

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**Attribute Description:** This is a boolean value which indicates whether this feature applies to voice calls.

**Attribute: data_alw**

**Fullname:** data allow

**Attribute Description:** This is a boolean value which indicates whether this feature applies to CSD data calls. It may only be assigned to terminals on a Standard BRI.

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# AR_LNSI

## 1. Description

This relation is used for routing the calls in the automatic route selection (ARS) feature for the leased network (LN) action control point (ACP) capability. This assigns screening index for the data/voice calls based upon the switch type (access/via).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 1 |

## 3. Field Layout

```
AR_LNSI     relid = 1283  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL

     ars_si      DMARSCNIDX   (ushort: 5)
 (a) ln_node     DMLNNODE     (enum: 2)     <--- key
 (b) data_call   DMBOOL       (enum: 1)     <--- key

         User and Compacted Tuple Layout    AR_LNSI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |          |   | |                                             |
  0 |  ars_si | a |b|*********************************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )

     ars_si      DMARSCNIDX   (ushort: 5)
 (a) ln_node     DMLNNODE     (enum: 2)     <--- key
 (b) data_call   DMBOOL       (enum: 1)     <--- key

           Stored Tuple Layout      AR_LNSI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |          |   | |                                             |
  0 |  ars_si | a |b|*********************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLar_lnsi

**Relation Description:** LN switch type to ARS screening index relation.

This relation is used for routing the calls in the automatic route selection (ARS) feature for the leased network (LN) action control point (ACP) capability. This assigns screening index for the data/voice calls based upon the switch type (access/via). The fc subsystem is the main user of this relation. This relation is required only in Leased Network

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offices.

**Attribute: ln_node**

**Fullname:** Leased Network switch type

**Attribute Description:** This attribute specifies the per call switch type (access or via). It is access if the call is originated at this switch, otherwise it is via.

**Attribute: data_call**

**Fullname:** Data call indicator

**Attribute Description:** This attribute specifies the type of call. DBYES indicates that the call is a data call, DBNO indicates a voice call.

**Attribute: ars_si**

**Fullname:** Automatic route selection screening index

**Attribute Description:** ARS screening index used to read RLarscrn. This screening index is used for Leased Network calls instead of using an ARS screening index normally obtained from the RLarport relation. For each value of RLar_lnsi.ars_si, a tuple must exist in RLarscrn with this as a key value. The RLarscrn.ar_gpid will be obtained from RLgpid_net.argp and the RLarscrn.ars_idx is obtained from either the LDIT ODP routing index or the PNDP ARS index.

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# AR_OPTS

## 1. Description

LASS automatic recall constructed feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
AR_OPTS     relid = 1103  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP

     feat_id     DMFID        (ushort: 10)     <--- key, not stored
 (a) ring_typ    DMMCDRING    (enum: 4)
     actvn       DMMC_ACTYP   (enum: 3)
 (b) ama_rec     DMBOOL       (enum: 1)
 (c) dctvn       DMMC_DCTYP   (enum: 2)
 (d) filtr_op    DMBOOL       (enum: 1)
 (e) voice_alw   DMBOOL       (enum: 1)
 (f) data_alw    DMBOOL       (enum: 1)

         User and Compacted Tuple Layout    AR_OPTS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                     |                                         |
  0 |      feat_id        |*****************************************|
    |---------------+---------------+---------------+---------------|
    |       |     | |   | | | |                                     |
  4 |   a   |actvn|b| c |d|e|f|*************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )

 (a) ring_typ    DMMCDRING    (enum: 4)
     actvn       DMMC_ACTYP   (enum: 3)
 (b) ama_rec     DMBOOL       (enum: 1)
 (c) dctvn       DMMC_DCTYP   (enum: 2)
 (d) filtr_op    DMBOOL       (enum: 1)
 (e) voice_alw   DMBOOL       (enum: 1)
 (f) data_alw    DMBOOL       (enum: 1)

           Stored Tuple Layout      AR_OPTS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |       |     | |   | | | |                                     |
  0 |   a   |actvn|b| c |d|e|f|*************************************|
    |---------------+---------------+---------------+---------------|
```

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```
( 2 bytes )
```

## 4. Population Rules for RLar_opts

**Relation Description:** LASS Automatic Recall Constructed Feature Options.

This relation gives LASS Automatic Recall constructed feature option information used in the AM. These constructed features can be assigned to analog and ISDN terminals.

**Attribute: feat_id**

**Fullname:** feature identification

**Attribute Description:** A BRCS constructed feature id consists of a modular feature type and a unique identifier. For an Automatic Recall constructed feature, the modular feature type is MFAR which is an enumeration of type DMmftype. The feature id must have a class of FACBRCS and a subclass of SCL_FEAT. If the feature is offered on a generally available basis, the feature id must also have a class of FACBRCS and a subclass of SCL_FEAT.

**Attribute: actvn**

**Fullname:** activation

**Attribute Description:** Method of feature activation. This is an enumeration of type DMmc_actyp. This feature is not able to be activated (customer cannot activate via a dialed code or feature button) for 5E5 so that actvn always has the value ACTNONE. Future generics may allow this feature to be activated via dialed codes or feature buttons.

**Attribute: dctvn**

**Fullname:** deactivation

**Attribute Description:** Method of feature deactivation. This is an enumeration of type DMmc_dctyp. This feature is not able to be deactivated (customer cannot deactivate via a dialed code or feature button) for 5E5 so that dctvn always has the value DCTNONE. Future generics may allow this feature to be deactivated via dialed codes or feature buttons.

**Attribute: ama_rec**

**Fullname:** billing type

**Attribute Description:** Type of billing to be performed. This is an enumeration of type DMbool. This billing can be done on a flat rate or usage sensitive basis according to how the subscribing user prefers to be billed or how the customer decides it will bill if the feature is universally available. If ama_rec is set to DBYES, the billing will be done on a usage sensitive basis whereas if it is set to DBNO, the billing will be done on a flat rate basis. ama_rec applies equally to whatever call type (voice or data) that this AR feature supports.

**Attribute: ring_typ**

**Fullname:** Call-back ringing type

**Attribute Description:** Select from one of the cadences available to the Automatic Recall feature user. This attribute should be initially populated with ringing cadence DR_C.

**Attribute: filtr_op**

**Fullname:** filter options

**Attribute Description:** This is a boolean value which will be used to indicate whether or not this feature is restricted intra-terminal group only. This attribute should be initially populated with DBNO.

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If this attribute is set to DBYES, then the feature will be restricted intra-terminal group only.

**Attribute: voice_alw**

**Fullname:** voice allow

**Attribute Description:** This is a boolean value which indicates whether this feature applies to voice calls.

**Attribute: data_alw**

**Fullname:** data allow

**Attribute Description:** This is a boolean value which indicates whether this feature applies to CSD data calls. It may only be assigned to terminals on a Standard BRI.

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# AR_PORT

## 1. Description

LASS automatic recall feature parameters on this global port.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 14 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| density | 2 |
| ks key store | AUTO |
| l1 length of subkey 1 | 2 |
| p1 position of subkey 1 | 16 |
| l2 length of subkey 2 | 16 |
| p2 position of subkey 2 | 0 |

## 3. Field Layout

```
AR_PORT     relid = 1104  DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP

     lport       DMLPORT      (ushort: 16)     <--- key, not stored
 (a) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key, not stored
 (b) ring_typ    DMMCDRING    (enum: 4)

         User and Compacted Tuple Layout    AR_PORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |   |                         |
  0 |              lport              | a |*************************|
    |---------------+---------------+---------------+---------------|
    |       |                                                       |
  4 |   b   |*******************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )

 (a) ring_typ    DMMCDRING    (enum: 4)

           Stored Tuple Layout      AR_PORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |       |                                                       |
  0 |   a   |*******************************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLar_port

**Relation Description:** LASS Automatic Recall Constructed Feature Line Parameters.

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This relation gives LASS Automatic Recall constructed feature line parameters that are pseudo group partitioned. These constructed features can be assigned to analog and ISDN terminals.

**Attribute: lport**

**Fullname:** logical port

**Attribute Description:** This attribute defines the logical port and is a sequential key administered per SM. Analog lines would also be assigned lports, although the ISDN and analog lport values will be tracked and assigned separately to conserve memory as is currently done with logical termination indexes.

**Attribute: lpt_type**

**Fullname:** lport type

**Attribute Description:** This attribute indicates the type of lport that the tuple belongs to.

**Attribute: ring_typ**

**Fullname:** Recall ringing type

**Attribute Description:** Select from one of the cadences available to the LASS Automatic Recall feature user. This attribute should be initially populated with ringing cadence DR_C.

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# ARALTFRL

## 1. Description

Alternate frl table for ARS phase II.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
ARALTFRL    relid = 762   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP

     ar_gpid     DMMCC_FID    (ushort)     <--- key
     altfrl0     DMALTFRL     (ushort: 5)
     altfrl1     DMALTFRL     (ushort: 5)
     altfrl2     DMALTFRL     (ushort: 5)
     altfrl3     DMALTFRL     (ushort: 5)
     altfrl4     DMALTFRL     (ushort: 5)
     altfrl5     DMALTFRL     (ushort: 5)
     altfrl6     DMALTFRL     (ushort: 5)
     altfrl7     DMALTFRL     (ushort: 5)
     altfrl8     DMALTFRL     (ushort: 5)
     altfrl9     DMALTFRL     (ushort: 5)
     altfrl10    DMALTFRL     (ushort: 5)
     altfrl11    DMALTFRL     (ushort: 5)
     altfrl12    DMALTFRL     (ushort: 5)
     altfrl13    DMALTFRL     (ushort: 5)
     altfrl14    DMALTFRL     (ushort: 5)
     altfrl15    DMALTFRL     (ushort: 5)
     altfrl16    DMALTFRL     (ushort: 5)

         User, Compacted and Stored Tuple Layout   ARALTFRL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |         |         |         | |
  0 |            ar_gpid            | altfrl0 | altfrl1 | altfrl2 |*|
    |---------------+---------------+---------------+---------------|
    |         |         |         | |         |         |         | |
  4 | altfrl3 | altfrl4 | altfrl5 |*| altfrl6 | altfrl7 | altfrl8 |*|
    |---------------+---------------+---------------+---------------|
    |         |         |         | |         |         |         | |
  8 | altfrl9 | altfrl10| altfrl11|*| altfrl12| altfrl13| altfrl14|*|
    |---------------+---------------+---------------+---------------|
    |         |         |                                         |
```

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```
 12 | altfrl15| altfrl16|****************************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLaraltfrl

**Relation Description:** Alternate frl table for ARS Phase II.

This relation contains an alternate frl for each frl allowed. The alternate frl from the relation will be used when the alternate FRL feature is allowed and active (RLargp.alw_alt_frl, RLargp.alt_frl and RLarport.use_alt_frl are set to DBYES)

**Attribute: ar_gpid**

**Fullname:** auto route selection group id

**Attribute Description:** This tuple should not be deleted when it is in use for this group.

**Attribute: altfrl[*]**

**Fullname:** alternate frl for each given frl

**Attribute Description:** In order to fill in the alternate frl, the alw_alt_frl bit in the RLargp relation needs to be set to DBYES

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# ARCF

## 1. Description

Auto route selection constructed feature -- used in SM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head page size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| ks key store | DBNO |

## 3. Field Layout

```
ARCF        relid = 492   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL

     feat_id     DMMCC_FID    (ushort)     <--- key, not stored
 (a) fltrerr     DMARFLTERR   (enum: 3)
 (b) frl_err     DMARFLTERR   (enum: 3)
 (c) entry_pt    DMAREP       (enum: 2)
     actvn       DMMC_ACTYP   (enum: 3)
 (d) gactvn      DMMC_ACTYP   (enum: 3)
 (e) frl_typ     DMARFRL      (enum: 2)
 (f) dctvn       DMMC_DCTYP   (enum: 2)
 (g) gdctvn      DMMC_DCTYP   (enum: 2)
 (h) chgapg      DMBOOL       (enum: 1)
 (i) chgerwt     DMBOOL       (enum: 1)
 (j) chgaltfrl   DMBOOL       (enum: 1)
 (k) tcmopt      DMBOOL       (enum: 1)
 (l) ccsa        DMBOOL       (enum: 1)
     ars_bill    DMMC_BILL    (struct)
 (m)     flat        DMBOOL       (enum: 1)
 (n)     usefreq1    DMBOOL       (enum: 1)
 (o)     usefreq2    DMBOOL       (enum: 1)
 (p)     usefreq3    DMBOOL       (enum: 1)
 (q)     usefreq4    DMBOOL       (enum: 1)
 (r)     actchrg     DMBOOL       (enum: 1)
 (s)     dactchrg    DMBOOL       (enum: 1)
 (t)     duration    DMBOOL       (enum: 1)
 (u)     change      DMBOOL       (enum: 1)

        User and Compacted Tuple Layout   ARCF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            feat_id            |*******************************|
   |---------------+---------------+---------------+---------------|
   |     |     |   |     |     |   |   |   | | | | | |             |
```

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```
 4 |  a  |  b  | c |actvn|  d  | e | f | g |h|i|j|k|l|*************|
   |===============+==========  ars_bill ==========+===============|
   | | | | | | | | | |                                           |
 8 |m|n|o|p|q|r|s|t|u|*******************************************|
   |===============+===============+===============+===============|
      ( 12 bytes )

(a) fltrerr     DMARFLTERR   (enum: 3)
(b) frl_err     DMARFLTERR   (enum: 3)
(c) entry_pt    DMAREP       (enum: 2)
    actvn       DMMC_ACTYP   (enum: 3)
(d) gactvn      DMMC_ACTYP   (enum: 3)
(e) frl_typ     DMARFRL      (enum: 2)
(f) dctvn       DMMC_DCTYP   (enum: 2)
(g) gdctvn      DMMC_DCTYP   (enum: 2)
(h) chgapg      DMBOOL       (enum: 1)
(i) chgerwt     DMBOOL       (enum: 1)
(j) chgaltfrl   DMBOOL       (enum: 1)
(k) tcmopt      DMBOOL       (enum: 1)
(l) ccsa        DMBOOL       (enum: 1)
    ars_bill    DMMC_BILL    (struct)
(m)     flat        DMBOOL       (enum: 1)
(n)     usefreq1    DMBOOL       (enum: 1)
(o)     usefreq2    DMBOOL       (enum: 1)
(p)     usefreq3    DMBOOL       (enum: 1)
(q)     usefreq4    DMBOOL       (enum: 1)
(r)     actchrg     DMBOOL       (enum: 1)
(s)     dactchrg    DMBOOL       (enum: 1)
(t)     duration    DMBOOL       (enum: 1)
(u)     change      DMBOOL       (enum: 1)

          Stored Tuple Layout     ARCF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |     |     |   |     |     |   |   |   | | | | | |             |
 0 |  a  |  b  | c |actvn|  d  | e | f | g |h|i|j|k|l|*************|
   |===============+==========  ars_bill ==========+===============|
   | | | | | | | | | |                                           |
 4 |m|n|o|p|q|r|s|t|u|*******************************************|
   |===============+===============+===============+===============|
      ( 8 bytes )
```

## 4. Population Rules for RLarcf

**Relation Description:** Automatic Route Constructed Feature.

Automatic route selection constructed feature (options only) used in SM. The following is a list of valid service classes for ports assigned this feature:

```
LINES
-----
FC_INDVDL, FC_ATTENDANT, FC_PBX, FC_4WIRE_INDV,
FC_MODEM,  FC_ISDN,  FC_ISATND,  RC_UNASSIG, RC_PORTUNA
```

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```
TRUNKS
------
FC_PF,      FC_PFLASH, FC_PFITT, FC_LATA_CONN
FC_CA_ANI, FCEDSL,    FCEDSLHM, FC_TTOLL_CONN,
```

**Attribute: feat_id**

**Fullname:** feature identification.

**Attribute Description:** Auto Route Selection (ARS) constructed feature id.

**Attribute: entry_pt**

**Fullname:** Entry point

**Attribute Description:** Indicates which entry methods are accepted by the given constructed auto route selection feature.

**Attribute: fltrerr**

**Fullname:** error treatment for inappropriate numbers.

**Attribute Description:** Error treatment given when it is determined that the dialed code (N11, 011, 10XX, 800, 0+, 0-) is inappropriate for auto route selection.

**Attribute: frl_err**

**Fullname:** error treatment for insufficient facility restriction Level (FRL).

**Attribute Description:** Error treatment given when it is determined that a line has insufficient FRL to use a given facility.

**Attribute: frl_typ**

**Fullname:** Facility Restriction Level (FRL) type.

**Attribute Description:** The calling privileges associated with a line.

**Attribute: actvn**

**Fullname:** activation type.

**Attribute Description:** Specifies the type of constructed feature activation allowed for this feature.

```
For line de-activation for 1 call:
If actvn = ACTNONE  and  dctvn = DCTCD
    then   entry_pt = ARE_AUTO.
For line always activate:
If actvn = ACTNONE  then dctvn = DCTNONE.
```

**Attribute: dctvn**

**Fullname:** deactivating type.

**Attribute Description:** Specifies the types of deactivation allowed for this feature.

```
If dctvn = DCTNONE  or  DCTCD  then actvn = ACTNONE.
*** ODA ONLY WARNING ***
*** (NOT SUPPORTED BY RC) ***
```

To deactivate the feature via a dialed code, verify that RLdaprlfnl and/or RLidp_dtre have a tuple for a given dialed code with action = ACN_ARSDCT.

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**Attribute: gactvn**

**Fullname:** group activating type.

**Attribute Description:** specifies the type of group activation for this feature.

```
If gactvn = ACTNONE  then gdctvn = DCTNONE.
If gactvn = ACTCD    then gdctvn = DCTCD.
*** ODA ONLY WARNING ***
*** (NOT SUPPORTED BY RC) ***
```

To activate the feature via a dialed code, verify that RLdaprlfnl and/or RLidp_dtre have a tuple for a given dialed code with action = ACN_GPACT.

**Attribute: gdctvn**

**Fullname:** group deactivating type.

**Attribute Description:** Specifies the type of group deactivation for this feature.

```
If gdctvn = DCTNONE  then gactvn = ACTNONE.
If gdctvn = DCTCD    then gactvn = ACTCD.
*** ODA ONLY WARNING ***
*** (NOT SUPPORTED BY RC) ***
```

To deactivate the feature via a dialed code, verify that RLdaprlfnl and/or RLidp_dtre have a tuple for a given dialed code with action = ACN_GPDCT.

**Attribute: chgapg**

**Fullname:** change active pattern group.

**Attribute Description:** Tells whether the active pattern group number (act_pg in RLargp) changes are permitted by time of day (TOD) or diald code.

**Attribute: chgerwt**

**Fullname:** change expensive route warning tone.

**Attribute Description:** Indicates whether expensive warning tone change are permitted by customer through dial_code.

**Attribute: chgaltfrl**

**Fullname:** Change the status of the alternate FRL table.

**Attribute Description:** Indicates whether activation/deactivation of alternate FRL table (alw_alt_frl in RLargp) is permitted by the customer through a dialed code or time of day. Glsabac D

**Attribute: tcmopt**

**Fullname:** traveling class mark (TCM) option.

**Attribute Description:** Indicates whether or not the private switch network customer wants traveling class marks (indication of a station's facility restriction level) passed between private network nodes.

**Attribute: ccsa**

**Fullname:** Common control switching arrangement (CCSA).

**Attribute Description:** Indicates whether CCSA limit apply to this feature. If CCSA limits apply, they will only be used on calls using dialing plan 1.

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**Attribute: ars_bill**

**Fullname:** type of billing for ARS.

**Attribute Description:** Boolean structure indicating the combination several types of billing. In each case a DBYES indicates that type of billing is applicable and DBNO indicates it is not. See domain DMmc_bill for a description of each sub-attribute. Range of Values: DBYES, DBNO for each sub-attribute Default Value: DBYES for flat, DBNO for all other subattribute.

**Attribute: ars_bill.flat**

**Fullname:** flat rate.

**Attribute Description:** Flat rate, no usage sensitive charge.

**Attribute: ars_bill.usefreq1**

**Fullname:** usage frequency 1.

**Attribute Description:** Usage frequency charge, for use of event 1.

**Attribute: ars_bill.usefreq2**

**Fullname:** usage frequency 2.

**Attribute Description:** Usage frequency charge, for use of event 1.

**Attribute: ars_bill.usefreq3**

**Fullname:** usage frequency 3.

**Attribute Description:** Usage frequency charge, for use of event 3.

**Attribute: ars_bill.usefreq4**

**Fullname:** usage frequency 4.

**Attribute Description:** Usage frequency charge, for use of event 4.

**Attribute: ars_bill.actchrg**

**Fullname:** activation charge.

**Attribute Description:** Usage charge for activation.

**Attribute: ars_bill.dactchrg**

**Fullname:** deactivation charge.

**Attribute Description:** Usage charge for deactivation.

**Attribute: ars_bill.duration**

**Fullname:** duration charge.

**Attribute Description:** Usage charge for duration of use.

**Attribute: ars_bill.change**

**Fullname:** parameter change.

**Attribute Description:** Usage charge for change of parameter.

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# ARGP

## 1. Description

ARS group data for each group -- used in IM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 400 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| corcable | DBYES |

## 3. Field Layout

```
ARGP        relid = 493   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP

     ar_gpid     DMMCC_FID    (ushort)     <--- key
     annc_ri     DMRTEIDX     (ushort: 14)
 (a) shcopt      DMSHCOPT     (enum: 2)
     pq_frl      DMARNFRL     (ushort: 5)
 (b) thresh_frl  DMARNFRL     (ushort: 5)
     shc         DMSHC        (uchar: 4)
 (c) argptyp     DMBRTYP      (enum: 2)
 (d) pg_alw      DMARGP       (enum: 3)
 (e) act_pg      DMARGP       (enum: 3)
 (f) ars_act_sts  DMBOOL       (enum: 1)
 (g) tod_inh     DMBOOL       (enum: 1)
 (h) alw_alt_frl  DMBOOL       (enum: 1)
 (i) alt_frl     DMBOOL       (enum: 1)

         User, Compacted and Stored Tuple Layout   ARGP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |   |
  0 |            ar_gpid            |          annc_ri              | a |
    |---------------+---------------+---------------+---------------|
    |         |         |       |   |     |     | | | | |           |
  4 |  pq_frl |    b    |  shc  | c |  d  |  e  |f|g|h|i|***********|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLargp

**Relation Description:** Automatic Route Selection (ARS) group data.

This relation contains ARS group data for each group.

**Attribute: ar_gpid**

**Fullname:** ARS group id

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**Attribute Description:** Auto Route Selection group id.

**Attribute: ars_act_sts**

**Fullname:** ARS active status

**Attribute Description:** Active status indicator for ARS group.

**Attribute: pg_alw**

**Fullname:** Pattern groups allowed

**Attribute Description:** The number of pattern groups that a customer may have.

**Attribute: act_pg**

**Fullname:** Active pattern group

**Attribute Description:** The pattern group that is active.

**Attribute: annc_ri**

**Fullname:** Announcement route index

**Attribute Description:** The announcement for inappropriate ARS number; it is a route index that points to an announcement.

**Attribute: tod_inh**

**Fullname:** Time of day changes inhibited

**Attribute Description:** Specifies whether time of day changes to ARS group data are inhibited. This field is intended to be used by end customers through the Facilities Management feature, allowing a customer to temporarily deactivate TOD scheduled changes. If the value is DBYES, then TOD changes will be blocked for this ARS group.

**Attribute: alw_alt_frl**

**Fullname:** Allow alternate FRL

**Attribute Description:** Boolean indicating whether the customer is allowed the alternate FRL feature or not.

If this attribute is DBYES do not delete the RLaraltfrl tuple for this ARS group. If alw_alt_frl is DBYES, the actions ACN_FRLALT and ACN_FRLMAIN are valid actions recognized by Time Of Day (TOD). ODA ONLY: If alw_alt_frl is DBYES, verify the existence of a tuple in RLaraltfrl keyed by ar_gpid.

**Attribute: alt_frl**

**Fullname:** Alternate FRL indicator

**Attribute Description:** Boolean indicating whether the alternate FRL feature is active or inactive.

**Attribute: pq_frl**

**Fullname:** Post-queue FRL

**Attribute Description:** Post-queue routing FRL used in the case of queue timeout when queuing is permitted on the outgoing trunk. If post queue FRL upgrade is not to occur, pq_frl will have a value of 31 (ARFRL_NONUSE). If it is being used, pq_frl will have a value from 0-16.

**Attribute: thresh_frl**

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**Fullname:** Threshold FRL

**Attribute Description:** If pq_frl indicates that post queue FRL upgrade is being used (it has a value from 0-16), the following conditions must be met before the upgrade can take place. 1. Terminal FRL >= thresh_frl and terminal FRL not 31 (ARFRL_NONUSE) OR thresh_frl = 31 2. pq_frl > terminal frl or terminal frl = 31.

**Attribute: argptyp**

**Fullname:** ARS group type

**Attribute Description:** Indicates if the ARS group is a circuit-switched voice or circuit-switched data group.

**Attribute: shc**

**Fullname:** Satellite Hop Count

**Attribute Description:** The maximum Satellite Hop Count allowed for each call in each ARS group. If Satellite Hop Count exceeded this value then attribute 'shcopt' should be checked to determine the options of action.

**Attribute: shcopt**

**Fullname:** Option of Satellite Hop Count

**Attribute Description:** If Satellite Hop Count exceeded the maximum value allowed that specified in attribute 'shc' then 'shcopt' should be checked to determine the options of action. The options are:

0|SHCDONTCARE) 'DON'T CARE', use either terrestrial or satellite facilities to route call.

1|SHCPREFER) 'PREFERRED', once the SHC limit has been reached, try to route terrestrially if available: otherwise route via satellite facilities.

2|SHCSTRICT) 'STRICT', once the SHC limit has been reached, route terrestrially if available: otherwise clear call.

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# ARPORT

## 1. Description

This relation contains the automatic route selection feature parameters on a port. Automatic route selection parameters are assigned to a business and residential customer services (BRCS) user. A user is defined to be an analog terminal, a trunk, or an integrated services digital network [ISDN] User.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65531 |
| expected number of tuples | 131 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| density | 32 |

## 3. Field Layout

```
ARPORT      relid = 494   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP

     lport       DMLPORT      (ushort: 16)     <--- key
     ar_gpid     DMMCC_FID    (ushort)
     ardtgpid    DMMCC_FID    (ushort)
     deftcm      DMTCM2       (uchar)
     frl_line    DMARNFRL     (ushort: 5)
 (a) ars_tone    DMMC_TONE    (enum: 3)
     ars_si      DMARSCNIDX   (ushort: 5)
 (b) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key
 (c) alw_mdr     DMBOOL       (enum: 1)
 (d) un_dpln     DMARSDP      (enum: 2)
 (e) voice_ete   DMETE        (enum: 2)
 (f) data_ete    DMETE        (enum: 2)
 (g) tcmin       DMTCMIND     (ushort: 2)
 (h) tcmout      DMTCMIND     (ushort: 2)
 (i) use_alt_frl  DMBOOL       (enum: 1)
 (j) q_alwd      DMBOOL       (enum: 1)
 (k) qpriority   DMBOOL       (enum: 1)
 (l) rlt_frlind  DMBOOL       (enum: 1)
 (m) rlt_amaind  DMBOOL       (enum: 1)
     priv_dn     DMDN15       (struct)     <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )

          User Tuple Layout    ARPORT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             lport             |            ar_gpid            |
   |---------------+---------------+---------------+---------------|
   |                               |               |       |       |
 4 |            ardtgpid           |     deftcm    | frl_line|  a  |
   |---------------+---------------+---------------+---------------|
```

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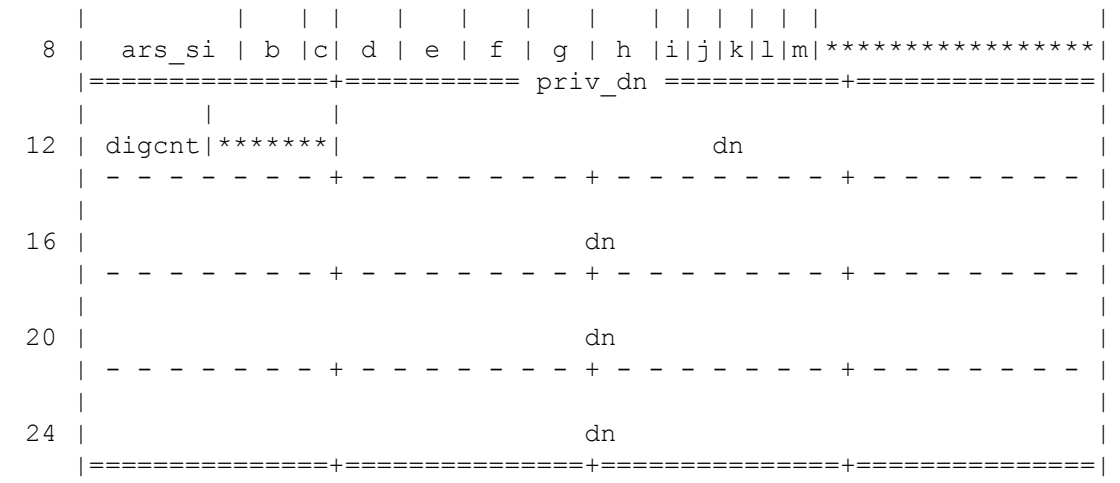


( 28 bytes )

```
    lport       DMLPORT      (ushort: 16)     <--- key
    ar_gpid     DMMCC_FID    (ushort)
    ardtgpid    DMMCC_FID    (ushort)
    deftcm      DMTCM2       (uchar)
    frl_line    DMARNFRL     (ushort: 5)
(a) ars_tone    DMMC_TONE    (enum: 3)
    ars_si      DMARSCNIDX   (ushort: 5)
(b) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key
(c) alw_mdr     DMBOOL       (enum: 1)
(d) un_dpln     DMARSDP      (enum: 2)
(e) voice_ete   DMETE        (enum: 2)
(f) data_ete    DMETE        (enum: 2)
(g) tcmin       DMTCMIND     (ushort: 2)
(h) tcmout      DMTCMIND     (ushort: 2)
(i) use_alt_frl  DMBOOL       (enum: 1)
(j) q_alwd      DMBOOL       (enum: 1)
(k) qpriority   DMBOOL       (enum: 1)
(l) rlt_frlind  DMBOOL       (enum: 1)
(m) rlt_amaind  DMBOOL       (enum: 1)
    priv_dn     DMCDN15      (struct)     <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
        dig8        DMUNS4       (ushort: 4)
        dig9        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
```

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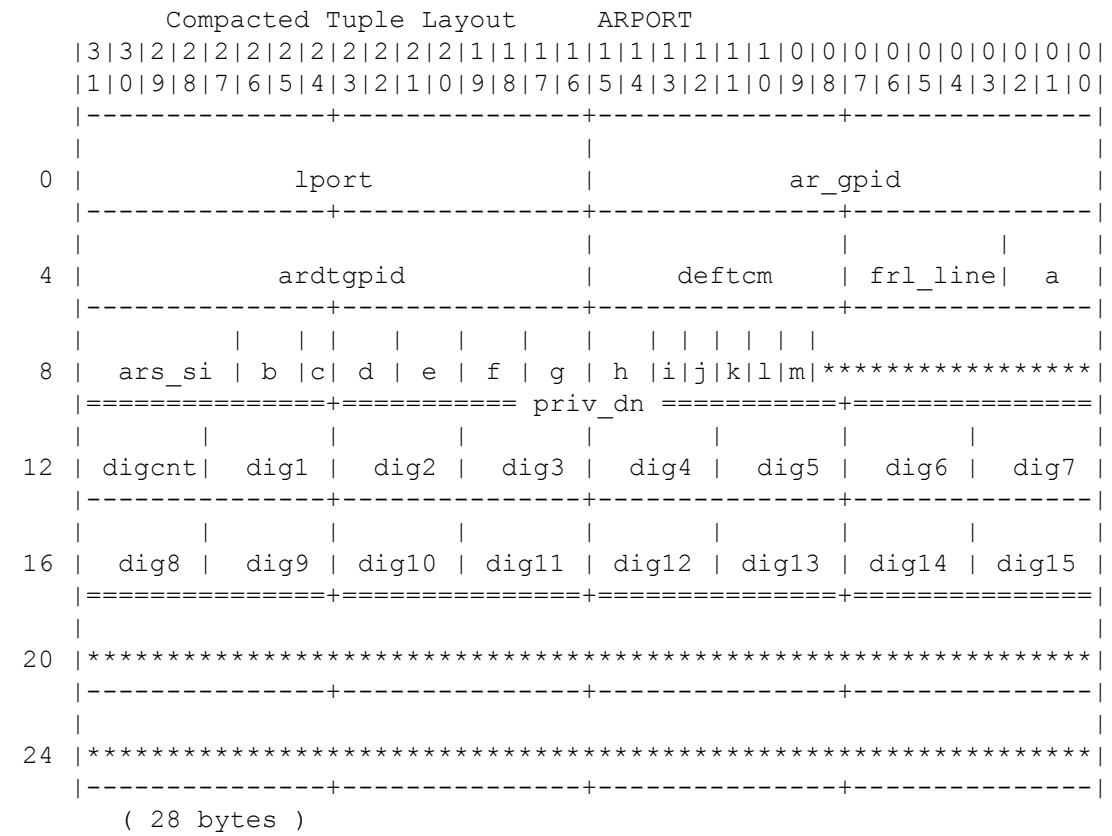


```
    lport       DMLPORT      (ushort: 16)     <--- key
    ar_gpid     DMMCC_FID    (ushort)
    ardtgpid    DMMCC_FID    (ushort)
    deftcm      DMTCM2       (uchar)
    frl_line    DMARNFRL     (ushort: 5)
(a) ars_tone    DMMC_TONE    (enum: 3)
    ars_si      DMARSCNIDX   (ushort: 5)
(b) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key
(c) alw_mdr     DMBOOL       (enum: 1)
(d) un_dpln     DMARSDP      (enum: 2)
(e) voice_ete   DMETE        (enum: 2)
(f) data_ete    DMETE        (enum: 2)
(g) tcmin       DMTCMIND     (ushort: 2)
(h) tcmout      DMTCMIND     (ushort: 2)
(i) use_alt_frl  DMBOOL       (enum: 1)
(j) q_alwd      DMBOOL       (enum: 1)
(k) qpriority   DMBOOL       (enum: 1)
(l) rlt_frlind  DMBOOL       (enum: 1)
(m) rlt_amaind  DMBOOL       (enum: 1)
    priv_dn     DMCDN15      (struct)     <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
```

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```
        dig7        DMUNS4       (ushort: 4)
        dig8        DMUNS4       (ushort: 4)
        dig9        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)

          Stored Tuple Layout   ARPORT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |              lport            |            ar_gpid            |
   |---------------+---------------+---------------+---------------|
   |                               |               |         |     |
 4 |            ardtgpid           |     deftcm    | frl_line|  a  |
   |---------------+---------------+---------------+---------------|
   |          |   | |   |   |   |   |   | | | | | |                 |
 8 |  ars_si  | b |c| d | e | f | g | h |i|j|k|l|m|*****************|
   |==========+===========  priv_dn  ===========+===============|
   |       |       |       |       |       |       |       |       |
12 | digcnt|  dig1 |  dig2 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
16 |  dig8 |  dig9 | dig10 | dig11 | dig12 | dig13 | dig14 | dig15 |
   |===============+===============+===============+===============|
      ( 20 bytes )
```

## 4. Population Rules for RLarport

**Relation Description:** Auto Route selection feature parameters on a port.

Automatic route selection parameters assigned to a business and residential customer services (BRCS) user (a user is defined to be an analog terminal, a trunk, or an integrated services digital network [ISDN] User).

```
Special Entry for Group Parameter Associated with BFG
------------------------------------------------------
```

For BRCS Feature Group (BFG) purposes, this Automatic Route Selection (ARS) is an either type. Therefore, BFG lport tuple will be created for the Switching Module (SM) where any BFG lport members reside. Individual lport tuples may or may not be created for BFG assigned lports. BFG, capability G268, is intended to improve recent change response time and provide for SM memory reduction. It permits the creation of groups of BRCS features and parameters, and the utilization of these groups by call processing. BFG group parameter relations will not be created, but will be populated in existing lport keyed relations. Identifying BFG group parameters will be accomplished via use of an lpt_type key field set to LPT_BFG and use of the lport key field to contain the BFG group ID. This concept is used to avoid creation of new database relations. Distribution: Group partitioned (if lpt_type=LPT_BFG) or SM partitioned This relation now has two types of tuples.

(1) The first type is the existing tuples which are sm-partitioned and remain unchanged. They are keyed by lpt_type != LPT_BFG and lport, and no change has been made to this key or data.

(2) The second type is the BFG group partitioned tuple associated with features in a BFG, having

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lpt_type=LPT_BFG, and the bfgid populated in the lport field.

***NOTE:*** There is a limit of 30 BRCS features for each bfgid.

**Attribute: lport**

**Fullname:** Logical port identifier

**Attribute Description:** Logical port of the user being assigned the BRCS features.

If lpt_type != LPT_BFG, RLarport.lport must equal RLfc_line.lport (if a line) or RLfc_trunk.lport (if a trunk).

The keys for RLfc_line & RLfc_trunk are:

RLfc_line.port = RLlpt_pt(RLarport.lport,RLarport.lpt_type).port RLfc_line.party = RLlpt_pt(RLarport.lport,RLarport.lpt_type).party RLfc_trunk.port = RLlpt_pt(RLarport.lport,RLarport.lpt_type).port

If lpt_type = LPT_BFG, then RLarport.lport contains a BFG group ID.

If lpt_type != LPT_BFG, there must be a tuple in RLfc_porttyp keyed by the RLlpt_pt(lport,lpt_type).port.

If lpt_type = LPT_BFG, there must be a tuple in RLbfgmatch keyed by the bfgid contained in RLarport.lport.

For lines: Verify existence of tuple in RLfc_line and a tuple in RLfc_porttyp for this lport (the port is derived from RLlpt_pt(lpt_type,lport).port) with a service class FC_INDVDL, FC_ATTENDENT, FC_PBX, FC_4WIRE_INDV, FC_MODEM, FC_ISDN, FC_ISATND, RC_UNASSIG, or RC_PORTUNA.

The D_channel port is the port specified for the classes of service: FC_ISDN and FC_ISATND.

If RLfc_porttyp.servclass is RC_UNASSIG or RC_PORTUNA then the line is on intercept. Also for these lines, RLrc_lcc.servclass will equal FC_INDVDL, FCATTENDENT, FC_PBX, FC_4WIRE_INDV, FC_MODEM, FC_ISDN, or FC_ISATND.

If RLfc_porttyp.servclass is FC_MODEM showing the ARS feature is associated with a modem pool group, then the port and the associated modem pool must be assigned to a private modem pool group; RLrt_mpg.pooltype must be MPPVTBILL or MPPVTNOBILL.

OR for trunks: Verify existence of tuple in RLfc_trunk and a tuple in RLfc_porttyp keyed by RLlpt_pt.port for trunks with service class FC_PF, FC_PFITT, or FC_PFLASH.

**Attribute: lpt_type**

**Fullname:** lport type

**Attribute Description:** Logical port type of the user. Range: LPT_ISDN (for ISDN Users), LPT_BFG (for BFG tuples), or LPT_OTHER (for analog BRCS lines and trunks)

RLarport.lpt_type must be identical to RLfc_line.lpt_type if the user is for an analog or ISDN terminal.

The keys for RLfc_line are: RLfc_line.port = RLlpt_pt(RLarport.lport,RLarport.lpt_type).port RLfc_line.party = RLlpt_pt(RLarport.lport,RLarport.lpt_type).party

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If the User is a BRCS trunk, then lpt_type=LPT_OTHER.

If lpt_type=LPT_BFG, then there must be a tuple in RLbfgmatch keyed by the bfgid contained in RLarport.lport.

**Attribute: ar_gpid**

**Fullname:** ARS voice group ID

**Attribute Description:** ARS group ID Range of Values: 0 to 65535. The zero is used only by Recent Change temporarily from the special insert, if the default on the feature selection definition was 0.

(1) Verify ar_gpid exists in RLargp, if ar_gpid > 0.

(2) If RLundpinfo.undp_ert = UNATDN then RLdn_feats.tgid must be > 0 and a tuple exists in RLrt_tg for that terminal group.

When an ARS group is added to a user who also subscribes to automatic customer station rearrangement (ACSR) a tuple in RLacsr_ldm will be either updated or inserted, or the addition of the ARS group to this user will fail. The check is made by comparing the RLdb_amgpd.pcr_map[1..7] fields indicated by RLarport.argp and by RLacsr_usr.acsr_gpid. See RLacsr_ldm.P for the details.

When an ARS group is deleted from a user who also subscribes to ACSR, the use_count field in one tuple of RLacsr_ldm will be decremented by one. See RLacsr_ldm.P for the details.

**Attribute: priv_dn**

**Fullname:** Private directory number

**Attribute Description:** Private directory billing number (1 thru $SZDNUM digits) for this user for MDR (Customer Location (CL) or revenue accounting office (RAO)).

**Attribute: priv_dn.digcnt**

**Fullname:** Private directory number digit count

**Attribute Description:** Used for private directory billing number digit count.

**Attribute: priv_dn.dn**

**Fullname:** Private directory number code

**Attribute Description:** Used for private directory billing number code.

**Attribute: ardtgpid**

**Fullname:** Auto route data group ID

**Attribute Description:** Identifies an ARS data group. If a non-zero ardtgpid is specified, a tuple must exist in RLargp with ar_gpid as the key, and the group type in that tuple must be BR_CSD (circuit-switched data)

**Attribute: frl_line**

**Fullname:** ARS facility restriction level port

**Attribute Description:** ARS facility restriction level for line or trunk; this value is used to compare the frl_grp in RLrt_mcrt. This field is meaningless for trunks that use incoming TCMs.

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frl_line range 0-16 are 'real' frls, and ARFRL_NONUSE (31) indicates the frl is not used. If RLarcf.frl_typ = ARL_FXDFRL, then RLarport.frl_line = 16.

**Attribute: ars_tone**

**Fullname:** ARS tone type

**Attribute Description:** Tone type for expensive route warning tone to be chosen by the customer.

**Attribute: alw_mdr**

**Fullname:** MDR indicator for a line

**Attribute Description:** Indicates if this user requires MDR to revenue accounting office, for call types AMCCSASAMP, AMETSMDR, and AMETSCCSA only.

If RLfc_porttyp.servclass=FC_MODEM, set alw_mdr=DBNO for modem members in a modem pool group.

**Attribute: use_alt_frl**

**Fullname:** Alternate Facility Restriction Level (FRL) table treatment indicator.

**Attribute Description:** Indicates if this user requires alternate FRL table treatment.

If RLargp.alw_alt_frl = DBNO, use_alt_frl must be DBNO.

**Attribute: tcmin**

**Fullname:** Traveling class mark (TCM) indicator for incoming trunks

**Attribute Description:** Indicates whether or not an incoming private network trunk is expecting to receive a TCM. Zero means no TCM is expected. Values of one or two indicate the number of digits in the TCM. When an incoming TCM is expected, the TCM will be used as the FRL, and frl_line is not used. This attribute is only used for trunks.

If the trunk indicated as the key port is an incoming trunk or a two-way trunk, all values are valid, except for leased network, the value can only be zero or one. If the value equals one, it must have a service class of PF and the in_signaling type must be TT, MF, or DP. For all other cases, only 0 is valid. If the value is one or two, RLartcm will not be populated for leased network, for other cases RLartcm must be populated and keyed in by ar_gpid. If attribute tcmopt in RLarcf equals DBNO, the value must be zero. If the trunk indicated as the key port is cut-through (RLfc_trunk.cut_thru=DBYES) then the value must be zero.

If tcmin = 1 or 2, then frl_line must be ARFRL_NONUSE (31) and RLarcf.frl_type = ARL_VARFRL.

**Attribute: tcmout**

**Fullname:** TCM indicator for outgoing trunks.

**Attribute Description:** Indicates whether or not an outgoing private network trunk is expecting to send a TCM. If the value is zero, no TCM will be sent. Values of one or two indicate the number of TCM digits to be outpulsed. This attribute is only used for trunks.

If the trunk indicated as the key port is an outgoing trunk or a two-way trunk, all values are valid. For all other cases, only zero is valid. If the value is one or two, RLartcm must be populated and keyed in by ar_gpid. For leased network, if the value is one or two, the service class must be PF and the out_signaling type must be TT, MF or DP. If attribute tcmopt in RLarcf equals DBNO, the value must be zero. If the trunk indicated as the key port is cut-through (RLfc_trunk.cut_thru=DBYES) or an FX trunk (RLfc_trunk.out_startsig or RLfc_trunk.in_startsig is FCFXLOOP or FCFXGRND), then the value must be 0.

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```
If deftcm = 0 through 7, then tcmout = 1 or 2.
If deftcm = 8 through 16, then tcmout = 2.
If deftcm = 31, then tcmout = 0.
```

**Attribute: ars_si**

**Fullname:** Auto route selection screening index for port

**Attribute Description:** ARS screening index used to read RLarscrn.

Use the default value for retrofit. Verify that a tuple with this ars_si and ar_gpid exists in RLarscrn.

**Attribute: q_alwd**

**Fullname:** Queuing allowed for this port

**Attribute Description:** Is modular queuing for outgoing private facilities allowed?

```
IF q_alwd is DBYES then:
If RLfc_porttyp.porttype is TM_TRK then
        RLfc_porttyp.servclass must be FC_PF, FC_PFITT, or
        FC_PFLASH
or
If RLfc_porttyp.porttype is TM_LINE
        RLfc_porttyp.servclass must be FC_INDVDL,
        FC_ATTENDANT, FC_PBX, FC_ISDN, FC_ISATND, FC_4WIRE_INDV.
        If RLfc_porttyp.servclass == FC_4WIRE_INDV and
        if FC_4wire.conf_bridge == DBYES, then q_alwd
        must equal DBNO.
        If RLfc_porttyp.servclass=FC_MODEM, set q_alwd =
        DBNO for modem members in a modem pool group.
```

**Attribute: qpriority**

**Fullname:** Priority port

**Attribute Description:** Is this a priority line for modular queuing for private facility?

```
if qpriority is DBYES,
        then q_alwd must be DBYES.
if q_alwd is DBYES and RLfc_porttyp.porttype is
        TM_TRK, then qpriority must be DBYES.
If q_alwd is DBYES and RLfcporttyp.porttype is
        TM_LINE and RLfc_porttyp.servclass is FC_ATTENDANT
or RLfc_porttyp.servclass is FC_ISATND
        then qpriority must be DBYES.
```

**Attribute: un_dpln**

**Fullname:** Uniform numbering dialing plan number

**Attribute Description:** Uniform numbering dialing plan number. Each user which is given auto ars treatment must specify the Private Number Dialing Plan (PNDP) or the Office Dialing Plan (ODP).

(1) If the entry condition of the ARS feature assigned is AUTO then RLarport.un_dpln must not equal DPNULL. To verify this the ARS feature ID taken from RLtrmfeats for this user is used as the key to RLartm, and if RLartm.entry_pt equals ARE_AUTO then RLarport.un_dpln must equal either DP1, DP2 or DPODP.

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(2) If this attribute is DP1 or DP2, then there must exist a tuple in RLundpinfo for the same ar_gpid with RLundpinfo.un_dpln=RLarport.un_dpln.

For Retrofit purposes from 5E2, un_dpln = DPODP when RLartm.entry_pt = ARE_AUTO and un_dpln = DPNULL when RLartm.entry_pt = ARE_ACC_CD.

**Attribute: deftcm**

**Fullname:** Default TCM for outgoing or 2-way trunks

**Attribute Description:** Default TCM to be used for calls that require a TCM be outpulsed, but the FRL was not received in the trunk termination message.

```
1) If tcmout = 0, then deftcm = 31.
   If tcmout = 1, then deftcm = 0 through 7.
   If tcmout = 2, then deftcm = 0 through 16.
```

**Attribute: rlt_frlind**

**Fullname:** Use originator caller's FRL indicator.

**Attribute Description:** Release link trunk facility restriction level indicator. This parameter must be set to DBYES if the original caller's FRL is to be used in place of the attendant's FRL in routing the call and in the MDR record. If RLarport.rlt_frlind = DBYES, RLrt_trkg.rlt_type must not = RLT_NONE.

**Attribute: rlt_amaind**

**Fullname:** Use original caller's automatic message accounting data indicator.

**Attribute Description:** Release link trunk automatic message accounting (AMA)indicator. This parameter must be set to DBYES if the original caller's data is to be used in place of the attendant's data in the MDR record. If RLarport.rlt_amaind = DBYES, RLrt_trkg.rlt_type must not = RLT_NONE.

**Attribute: voice_ete**

**Fullname:** Options of end to end Q.931 connectivity for voice calls

**Attribute Description:** End to end voice call Q.931 connectivity options:

ETEDONTCARE: Don't care if there is a PRI trunk available or not. ETEREQUIRE: PRI trunk is required to route a call. If no PRI trunk exists, clearing procedure will be initiated.

ETEPREFER: PRI trunk is preferred to route a call. If there is no PRI trunk available routing will use whatever trunk available.

**Attribute: data_ete**

**Fullname:** options of end to end Q.931 connectivity for data call.

**Attribute Description:** End to end data call Q.931 connectivity options:

ETEDONTCARE: Don't care if there is a PRI trunk available or not.

ETEREQUIRE: PRI trunk is required to route the call: If no PRI trunk exists, clearing procedure will be initiated.

ETEPREFER: PRI trunk is preferred to route the call. If there is no PRI trunk available routing will use whatever trunk available.

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**Defines:** "db/DMdnum.h"

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# ARSCRN

## 1. Description

ARS route index data for each group.

## 2. Data Dictionary Values

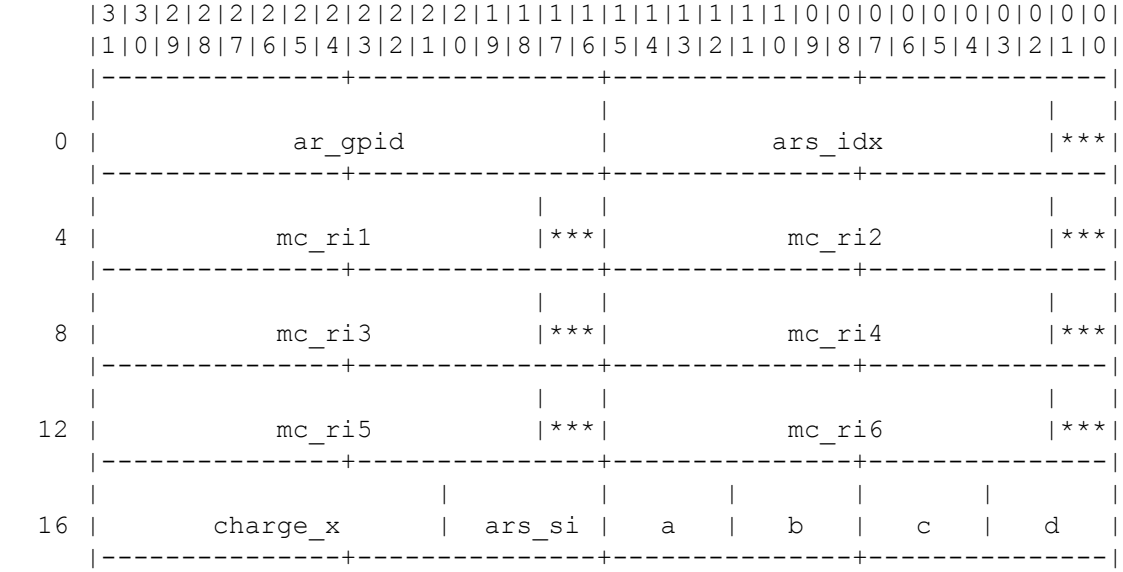
| | |
|---|---|
| maximum tuples in relation | 2500 |
| expected tuples in relation | 27 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
ARSCRN      relid = 562   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP

     ar_gpid     DMMCC_FID    (ushort)     <--- key
     ars_idx     DMRTEIDX     (ushort: 14)     <--- key
     mc_ri1      DMRTEIDX     (ushort: 14)
     mc_ri2      DMRTEIDX     (ushort: 14)
     mc_ri3      DMRTEIDX     (ushort: 14)
     mc_ri4      DMRTEIDX     (ushort: 14)
     mc_ri5      DMRTEIDX     (ushort: 14)
     mc_ri6      DMRTEIDX     (ushort: 14)
     charge_x    DMCHGIDX     (ushort: 11)
     ars_si      DMARSCNIDX   (ushort: 5)     <--- key
 (a) rte_typ1    DMROUTE      (enum: 4)
 (b) rte_typ2    DMROUTE      (enum: 4)
 (c) rte_typ3    DMROUTE      (enum: 4)
 (d) rte_typ4    DMROUTE      (enum: 4)
 (e) rte_typ5    DMROUTE      (enum: 4)
 (f) rte_typ6    DMROUTE      (enum: 4)
```

User, Compacted and Stored Tuple Layout ARSCRN

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```
    |       |       |                                                |
 20 |   e   |   f   |************************************************|
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population Rules for RLarscrn

**Relation Description:** ARS route index data for each group.

**Attribute: ar_gpid**

**Fullname:** auto route selection group id

**Attribute Description:** Auto Route Selection group id.

**Attribute: ars_idx**

**Fullname:** index generated by digit analysis

**Attribute Description:** Index generated by digit analysis routine.

**Attribute: ars_si**

**Fullname:** ARS screening index

**Attribute Description:** ARS screening index.

**Attribute: charge_x**

**Fullname:** private charge index for calls with RTE_MCTRAN rte_typ

**Attribute Description:** Charge index for RTE_MCTRAN calls Used when no rte_typ(N) values are RTE_MCTRAN The charge_x must be 1-2047 if any of the rte_typ(N) values are RTE_MCTRAN If the charge index is non-zero, then there must be a tuple of RLchrgidxexp with a matching key.

**Attribute: rte_typ[*]**

**Fullname:** route type override for the corresponding mc_ri

**Attribute Description:** This route type is used to override an RTE_MC or RTE_MCTRAN route type returned by private digit analysis. The default value(RTE_NULL) is used to specify the route type for a pattern group that's not used for this customer. Retrofit Rule:

```
rte_typ(N) should be RTE_MC
for the pattern groups that are used.
and the default value for the remaining
pattern groups.
```

Route types are numerically paired with the corresponding mc_ri(N). Dependencies are described in mc_ri(N) description. (N) ranges from 1 to 6 and refers to each rte_typ(N) or mc_ri(N).

**Attribute: mc_ri[*]**

**Fullname:** the BRCS route index for ARS group

**Attribute Description:** Route index or noc used in MFC routing

```
Range:  0 - AVRIMAX() (ri)
        0 - AVNOCMAX() (noc)
```

The default value is used to specify the index for a pattern group that's not active.

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Verify that RLargp has a tuple with this ar_gpid as key where rlARGP.pg_alw equals the maximum number of known mc_ri's (such as, if rlARGP.pg_alw = 3 then mc_ri1 - rmc_ri3 may be known and mc_ri4-6 must be 0).

```
If rte_typ(N) = RTE_ANNCE, RTE_ATDN, or RTE_REORDER,
then mc_ri(N) = 0.
```

If rte_typ(N) = RTE_ATDN, check is done by ODA only per 'Special Checks for ARS', 3) in RLarport.

If rte_typ(N) = RTE_ANNCE, verify that RLargp.annc_ri > 0.

If rte_typ(N) = RTE_MC, verify that a tuple exists in RLrt_mcrt with a rte_typ = RTE_MC or RTE_SFG or RTE_PVN with the corresponding mc_ri(N) as key. In this case, mc_ri(N) must be from 1 - AVRIMAX().

If rte_typ(N) = RTE_MCTRAN, interpret the corresponding mc_ri(N) as a noc. The range of mc_ri(N) must be from 1 - AVNOCMAX(). If the noc is non-zero, verify that a tuple exists in RLnoccode with this noc as key.

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# ARSEGSIG

## 1. Description

This relation contains the pause position and length for use in ARS segmented signaling. This information is required only for the MC route indices of ARS cut-through routes to PBXs. Tuples are required for all mc_ri's that have the segsig bit in RLrt_mcrt set to DBYES.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| expected tuples in relation | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
ARSEGSIG    relid = 763   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP

     mc_ri       DMRTEIDX     (ushort: 14)     <--- key
     ar_gpid     DMMCC_FID    (ushort)     <--- key
     pause1      DMPAUSE      (uchar)
     pause2      DMPAUSE      (uchar)
     pause3      DMPAUSE      (uchar)
     pause4      DMPAUSE      (uchar)
     positn1     DMPOSITN     (uchar)
     positn2     DMPOSITN     (uchar)
     positn3     DMPOSITN     (uchar)
     positn4     DMPOSITN     (uchar)

         User, Compacted and Stored Tuple Layout   ARSEGSIG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---+---------------+---------------|
    |                               |   |                               |
  0 |           mc_ri               |***|            ar_gpid            |
    |---------------+---------------+---+---------------+---------------|
    |               |               |                   |               |
  4 |     pause1    |     pause2    |     pause3        |     pause4    |
    |---------------+---------------+---+---------------+---------------|
    |               |               |                   |               |
  8 |    positn1    |    positn2    |    positn3        |    positn4    |
    |---------------+---------------+---+---------------+---------------|
       ( 12 bytes )

domain alARSEGS   struct  (4 sub-attributes)
            mc_ri       .1.fake      (ushort: 14)
            ar_gpid     unsigned short (ushort)
            pauses      .2.fake      (array [ 4 ] of unsigned char )
            positions     .3.fake      (array [ 4 ] of unsigned char )

         Structure Layout      alARSEGS
```

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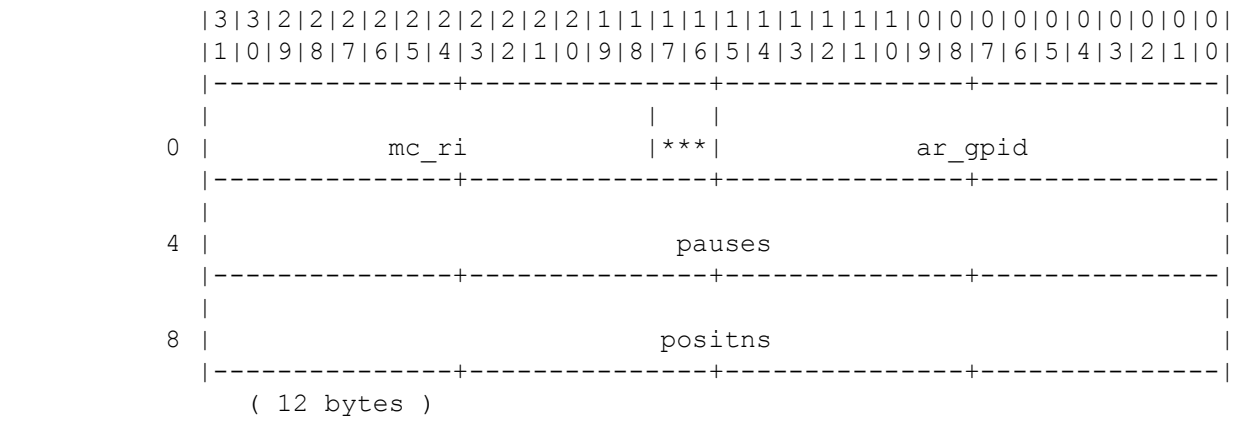


## 4. Population Rules for RLarsegsig

**Relation Description:** ARS segmented signaling.

Relation containing pause position and length for use in ARS segmented signaling. This information is required only for MC route indices of ARS cut-through routes to PBXs. Tuples are required for all mc_ri's that have the segsig bit in RLrt_mcrt set to DBYES.

**Attribute: mc_ri**

**Fullname:** route index for MFC routing

**Attribute Description:** Requires a tuple in RLrt_mcrt with this mc_ri as a key and RLrt_mcrt.segsig = DBYES.

**Attribute: ar_gpid**

**Fullname:** ARS group id

**Attribute Description:** ARS group id.

**Attribute: pause[*]**

**Fullname:** pause length in seconds between digits in digit string specified by position

**Attribute Description:** At least one pause length > 0 seconds must be specified. There can be up to four pauses in a digit string. Each pause must have a corresponding position. If the corresponding position value is 0, then the pause length specified must also be 0. Pause lengths of 0, the default value, mean there is no pause.

**Attribute: positn[*]**

**Fullname:** position of pause within digit string.

**Attribute Description:** At least one position must be specified. There can be up to four positions in the digit string before which a pause may be placed. For each position there must be a corresponding pause specified. The position values must be unique and entered in ascending order, except for 0 which can be used in positn1 through positn4. If the postion value is 0, the corresponding pause length must also be 0. A position value of 0 means there are no more pauses in the digit string.

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# ARTCM

## 1. Description

Conversion table for TCMs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
ARTCM       relid = 764   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP

     ar_gpid     DMMCC_FID    (ushort)     <--- key
     tcmone0     DMTCM1       (uchar)
     tcmone1     DMTCM1       (uchar)
     tcmone2     DMTCM1       (uchar)
     tcmone3     DMTCM1       (uchar)
     tcmone4     DMTCM1       (uchar)
     tcmone5     DMTCM1       (uchar)
     tcmone6     DMTCM1       (uchar)
     tcmone7     DMTCM1       (uchar)
     tcmone8     DMTCM1       (uchar)
     tcmone9     DMTCM1       (uchar)
     tcmone10    DMTCM1       (uchar)
     tcmone11    DMTCM1       (uchar)
     tcmone12    DMTCM1       (uchar)
     tcmone13    DMTCM1       (uchar)
     tcmone14    DMTCM1       (uchar)
     tcmone15    DMTCM1       (uchar)
     tcmone16    DMTCM1       (uchar)
     tcmtwo0     DMTCM2       (uchar)
     tcmtwo1     DMTCM2       (uchar)
     tcmtwo2     DMTCM2       (uchar)
     tcmtwo3     DMTCM2       (uchar)
     tcmtwo4     DMTCM2       (uchar)
     tcmtwo5     DMTCM2       (uchar)
     tcmtwo6     DMTCM2       (uchar)
     tcmtwo7     DMTCM2       (uchar)

         User, Compacted and Stored Tuple Layout  ARTCM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |           ar_gpid             |    tcmone0    |    tcmone1    |
```

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```
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |    tcmone2    |    tcmone3    |    tcmone4    |    tcmone5    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  8 |    tcmone6    |    tcmone7    |    tcmone8    |    tcmone9    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 12 |    tcmone10   |    tcmone11   |    tcmone12   |    tcmone13   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 16 |    tcmone14   |    tcmone15   |    tcmone16   |    tcmtwo0    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 20 |    tcmtwo1    |    tcmtwo2    |    tcmtwo3    |    tcmtwo4    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 24 |    tcmtwo5    |    tcmtwo6    |    tcmtwo7    |***************|
    |---------------+---------------+---------------+---------------|
       ( 28 bytes )

domain alARTCM    struct  (3 sub-attributes)
           ar_gpid     unsigned short (ushort)
           tcmone      .0.fake      (array [ 17 ] of unsigned char )
           tcmtwo      .1.fake      (array [ 8 ] of unsigned char )

        Structure Layout   alARTCM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            ar_gpid            |             tcmone            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                             tcmone                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             tcmone                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                             tcmone                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                               |               |
 16 |                     tcmone                    |     tcmtwo    |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                             tcmtwo                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                               |               |
 24 |                     tcmtwo                    |***************|
    |---------------+---------------+---------------+---------------|
       ( 28 bytes )
```

## 4. Population Rules for RLartcm

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**Relation Description:** Auto Route Selection Traveling Class Mark (TCM).

Conversion table for TCMs

**Attribute: ar_gpid**

**Fullname:** Auto Route Selection group ID

**Attribute Description:** Auto Route Selection group ID

**Attribute: tcmone[*]**

**Fullname:** One-digit Traveling Class Mark (TCM)

**Attribute Description:** 1-digit TCMs converted from 2-digit TCMs. tcmone0 contains the value of the 1-digit TCM corresponding to the 2 digit *5ESS*®-2000 switch TCM of 00..... tcmone16 contains the value of the 1 digit TCM corresponding to the 2 digit *5ESS*®-2000 switch TCM of 16. tcmone0 <= tcmone1 <= ... tcmone15 <= tcmone16. A 2-digit TCM of 0 will always be converted to a 1-digit TCM of 0. This is due to the fact that tcmtwo0 contains the value of the largest 2-digit TCM corresponding to the 1-digit TCM of 0.

```
If tcmtwo0 = 0, then tcmone0 = 0 and tcmone1 > 0.
If tcmtwo0 = 1, then tcmone0 = 0, tcmone1 = 0 and tcmone2 > 0.
By definition tcmone0 will always have a value of 0.
```

**Attribute: tcmtwo[*]**

**Fullname:** Two-digit TCM

**Attribute Description:** 2-digit TCMs converted from 1-digit TCMs tcmtwo0 contains the value of the largest 2-digit TCM which should correspond to the 1-digit TCM of 0. tcmtwo7 contains the value of the largest 2-digit TCM which should correspond to the 1-digit TCM of 7. These values will be ascending and unique.

For Example:

```
                    5ESS-2000 SWITCH
          TRAVELING CLASS MARKS (CONVERSION FROM 1-DIGIT)

          *1. ARGPNAME  ________      2. MBDN no display

          LIST OF 2-DIGIT CONVERTED VALUES (TCMLIST)

                 ROW      TCM              TCM
                  1  TCM0  5          TCM4  10
                  2  TCM1  6          TCM5  11
                  3  TCM2  8          TCM6  12
                  4  TCM3  9          TCM7  16_
```

```
The TCMs populated on this view must be ascending and unique.
The relation, RLartcm, would be populated as shown here:

1-digit converted to 2-digit   2-digit converted to 1-digit
                                          tcmone0 = 0;
        tcmtwo0 = 5;                      tcmone1 =  0;
        tcmtwo1 = 6;                      tcmone2 =  0;
        tcmtwo2 = 8;                      tcmone3 =  0;
```

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```
tcmtwo3 = 9;
tcmtwo4 = 10;
tcmtwo5 = 11;
tcmtwo6 = 12;
tcmtwo7 = 16.
```

```
tcmone4 =  0;
tcmone5 =  0;
tcmone6 =  1;
tcmone7 =  2;
tcmone8 =  2;
tcmone9 =  3;
tcmone10 = 4;
tcmone11 = 5;
tcmone12 = 6;
tcmone13 = 7;
tcmone14 = 7;
tcmone15 = 7;
tcmone16 = 7.
```

The conversion from 1-digit TCMs to 2-digit TCMs will be done internally (that is no screen exists to populate the values for this conversion).

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# ARTM

## 1. Description

Automatic Route Selection Template (ARTM)

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| expected tuples in relation | 10 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
ARTM        relid = 555   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP

     feat_id     DMMCC_FID    (ushort)     <--- key, not stored
     deftcm      DMTCM2       (uchar)
     frl_line    DMARNFRL     (ushort: 5)
 (a) fltrerr     DMARFLTERR   (enum: 3)
     ars_si      DMARSCNIDX   (ushort: 5)
 (b) frl_err     DMARFLTERR   (enum: 3)
     actvn       DMMC_ACTYP   (enum: 3)
 (c) gactvn      DMMC_ACTYP   (enum: 3)
 (d) entry_pt    DMAREP       (enum: 2)
 (e) ars_tone    DMMC_TONE    (enum: 3)
 (f) frl_typ     DMARFRL      (enum: 2)
 (g) dctvn       DMMC_DCTYP   (enum: 2)
 (h) chgapg      DMBOOL       (enum: 1)
 (i) gdctvn      DMMC_DCTYP   (enum: 2)
 (j) un_dpln     DMARSDP      (enum: 2)
 (k) voice_ete   DMETE        (enum: 2)
 (l) data_ete    DMETE        (enum: 2)
 (m) tcmin       DMTCMIND     (ushort: 2)
 (n) tcmout      DMTCMIND     (ushort: 2)
 (o) chgerwt     DMBOOL       (enum: 1)
 (p) chgaltfrl   DMBOOL       (enum: 1)
 (q) alw_mdr     DMBOOL       (enum: 1)
 (r) tcmopt      DMBOOL       (enum: 1)
 (s) ccsa        DMBOOL       (enum: 1)
 (t) use_alt_frl  DMBOOL       (enum: 1)
 (u) q_alwd      DMBOOL       (enum: 1)
 (v) qpriority   DMBOOL       (enum: 1)
 (w) rlt_frlind  DMBOOL       (enum: 1)
 (x) rlt_amaind  DMBOOL       (enum: 1)
     ar_gpname   DMFACNAME    (array [ 8 ] of char )
     ar_dtgpname  DMFACNAME    (array [ 8 ] of char )
     ars_bill    DMMC_BILL    (struct)
 (y)     flat        DMBOOL       (enum: 1)
 (z)     usefreq1    DMBOOL       (enum: 1)
 (A)     usefreq2    DMBOOL       (enum: 1)
```

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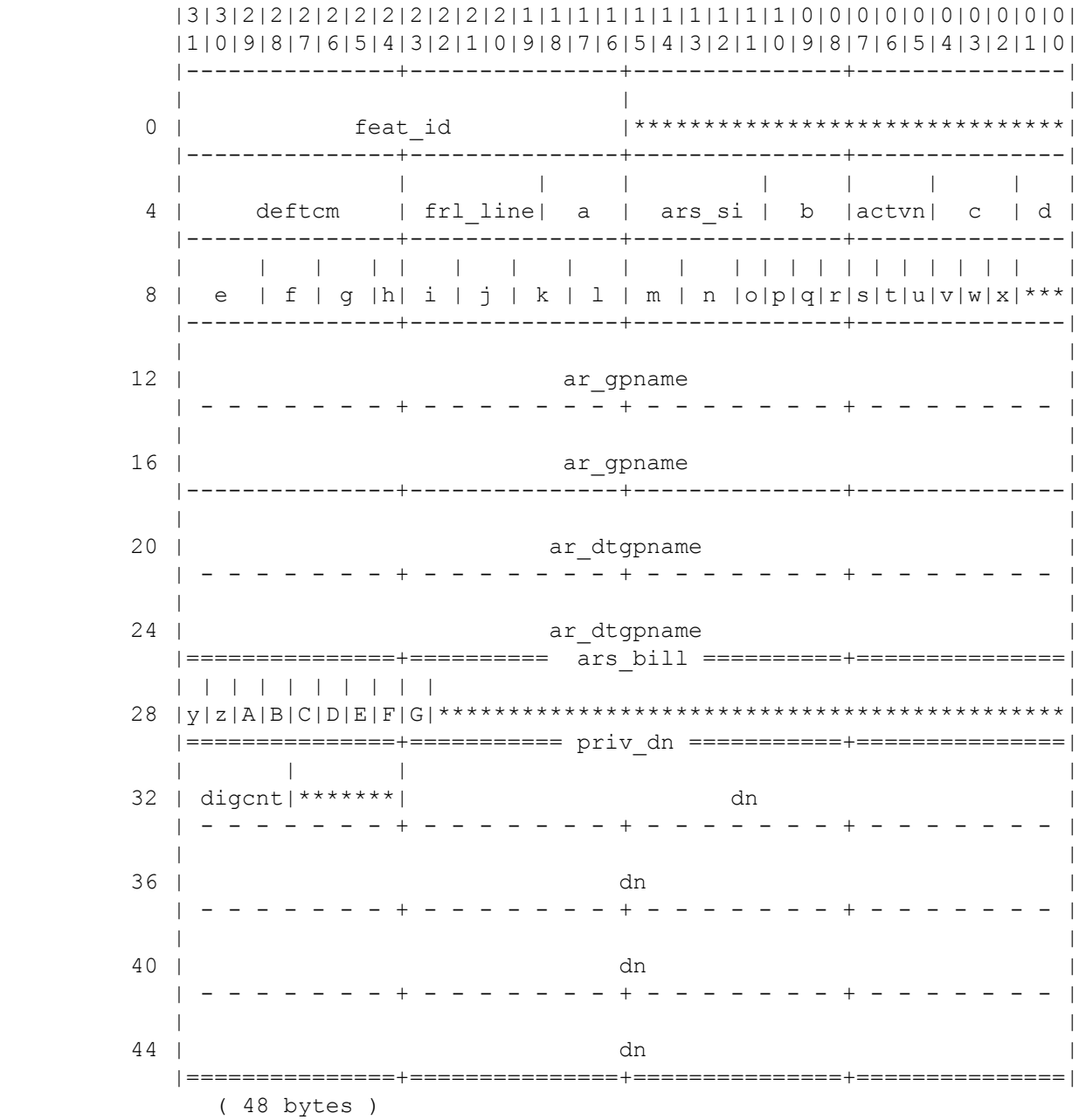
```
(B)     usefreq3    DMBOOL       (enum: 1)
(C)     usefreq4    DMBOOL       (enum: 1)
(D)     actchrg     DMBOOL       (enum: 1)
(E)     dactchrg    DMBOOL       (enum: 1)
(F)     duration    DMBOOL       (enum: 1)
(G)     change      DMBOOL       (enum: 1)
    priv_dn     DMDN15       (struct)     <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
```

User Tuple Layout ARTM




( 48 bytes )

```
feat_id     DMMCC_FID    (ushort)     <--- key, not stored
deftcm      DMTCM2       (uchar)
```

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```
    frl_line    DMARNFRL     (ushort: 5)
(a) fltrerr     DMARFLTERR   (enum: 3)
    ars_si      DMARSCNIDX   (ushort: 5)
(b) frl_err     DMARFLTERR   (enum: 3)
    actvn       DMMC_ACTYP   (enum: 3)
(c) gactvn      DMMC_ACTYP   (enum: 3)
(d) entry_pt    DMAREP       (enum: 2)
(e) ars_tone    DMMC_TONE    (enum: 3)
(f) frl_typ     DMARFRL      (enum: 2)
(g) dctvn       DMMC_DCTYP   (enum: 2)
(h) chgapg      DMBOOL       (enum: 1)
(i) gdctvn      DMMC_DCTYP   (enum: 2)
(j) un_dpln     DMARSDP      (enum: 2)
(k) voice_ete   DMETE        (enum: 2)
(l) data_ete    DMETE        (enum: 2)
(m) tcmin       DMTCMIND     (ushort: 2)
(n) tcmout      DMTCMIND     (ushort: 2)
(o) chgerwt     DMBOOL       (enum: 1)
(p) chgaltfrl   DMBOOL       (enum: 1)
(q) alw_mdr     DMBOOL       (enum: 1)
(r) tcmopt      DMBOOL       (enum: 1)
(s) ccsa        DMBOOL       (enum: 1)
(t) use_alt_frl  DMBOOL       (enum: 1)
(u) q_alwd      DMBOOL       (enum: 1)
(v) qpriority   DMBOOL       (enum: 1)
(w) rlt_frlind  DMBOOL       (enum: 1)
(x) rlt_amaind  DMBOOL       (enum: 1)
    ar_gpname   DMFACNAME    (array [ 8 ] of char )
    ar_dtgpname  DMFACNAME    (array [ 8 ] of char )
    ars_bill    DMMC_BILL    (struct)
(y)     flat        DMBOOL       (enum: 1)
(z)     usefreq1    DMBOOL       (enum: 1)
(A)     usefreq2    DMBOOL       (enum: 1)
(B)     usefreq3    DMBOOL       (enum: 1)
(C)     usefreq4    DMBOOL       (enum: 1)
(D)     actchrg     DMBOOL       (enum: 1)
(E)     dactchrg    DMBOOL       (enum: 1)
(F)     duration    DMBOOL       (enum: 1)
(G)     change      DMBOOL       (enum: 1)
    priv_dn     DMCDN15      (struct)     <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
        dig8        DMUNS4       (ushort: 4)
        dig9        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
```

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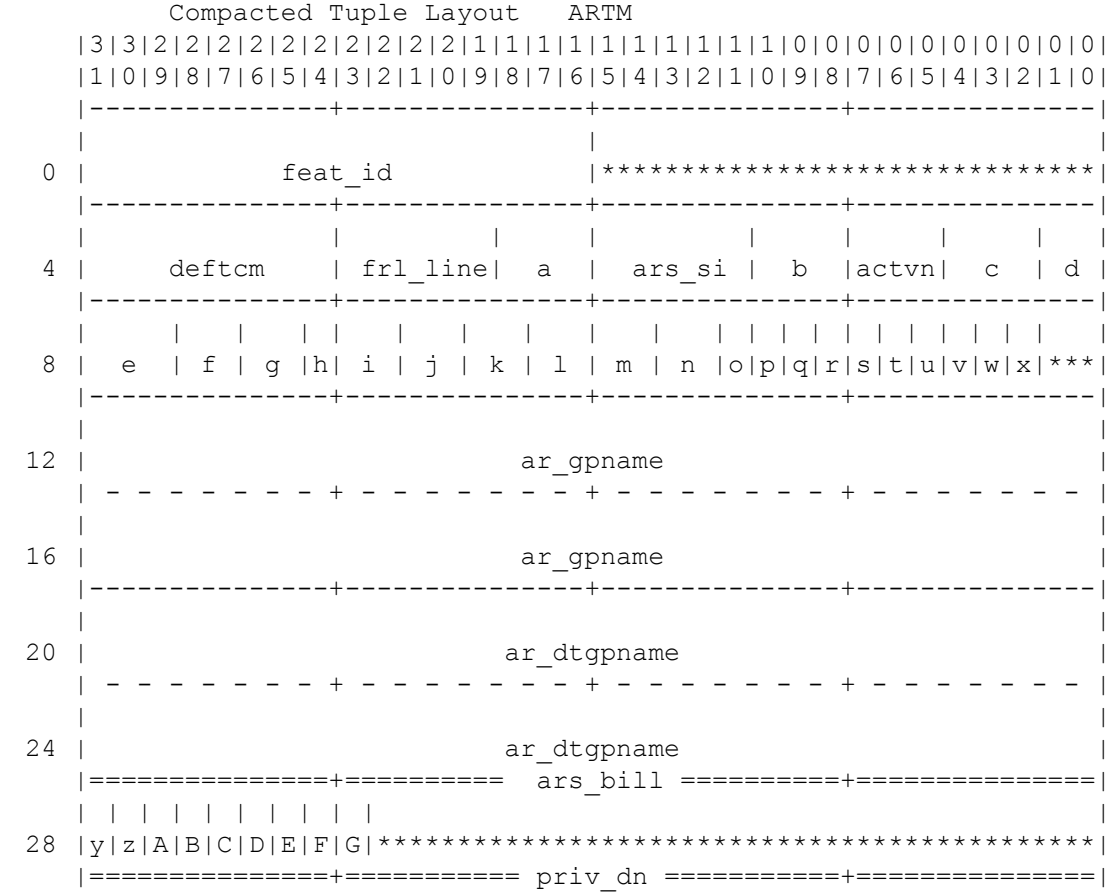
```
        dig14       DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
```




( 48 bytes )

```
    deftcm      DMTCM2       (uchar)
    frl_line    DMARNFRL     (ushort: 5)
(a) fltrerr     DMARFLTERR   (enum: 3)
    ars_si      DMARSCNIDX   (ushort: 5)
(b) frl_err     DMARFLTERR   (enum: 3)
    actvn       DMMC_ACTYP   (enum: 3)
(c) gactvn      DMMC_ACTYP   (enum: 3)
(d) entry_pt    DMAREP       (enum: 2)
(e) ars_tone    DMMC_TONE    (enum: 3)
```

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```
(f) frl_typ     DMARFRL      (enum: 2)
(g) dctvn       DMMC_DCTYP   (enum: 2)
(h) chgapg      DMBOOL       (enum: 1)
(i) gdctvn      DMMC_DCTYP   (enum: 2)
(j) un_dpln     DMARSDP      (enum: 2)
(k) voice_ete   DMETE        (enum: 2)
(l) data_ete    DMETE        (enum: 2)
(m) tcmin       DMTCMIND     (ushort: 2)
(n) tcmout      DMTCMIND     (ushort: 2)
(o) chgerwt     DMBOOL       (enum: 1)
(p) chgaltfrl   DMBOOL       (enum: 1)
(q) alw_mdr     DMBOOL       (enum: 1)
(r) tcmopt      DMBOOL       (enum: 1)
(s) ccsa        DMBOOL       (enum: 1)
(t) use_alt_frl  DMBOOL       (enum: 1)
(u) q_alwd      DMBOOL       (enum: 1)
(v) qpriority   DMBOOL       (enum: 1)
(w) rlt_frlind  DMBOOL       (enum: 1)
(x) rlt_amaind  DMBOOL       (enum: 1)
    ar_gpname   DMFACNAME    (array [ 8 ] of char )
    ar_dtgpname  DMFACNAME    (array [ 8 ] of char )
    ars_bill    DMMC_BILL    (struct)
(y)     flat        DMBOOL       (enum: 1)
(z)     usefreq1    DMBOOL       (enum: 1)
(A)     usefreq2    DMBOOL       (enum: 1)
(B)     usefreq3    DMBOOL       (enum: 1)
(C)     usefreq4    DMBOOL       (enum: 1)
(D)     actchrg     DMBOOL       (enum: 1)
(E)     dactchrg    DMBOOL       (enum: 1)
(F)     duration    DMBOOL       (enum: 1)
(G)     change      DMBOOL       (enum: 1)
    priv_dn     DMCDN15      (struct)     <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
        dig8        DMUNS4       (ushort: 4)
        dig9        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)

       Stored Tuple Layout     ARTM
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |         |     |         |     |     |     |   |
```

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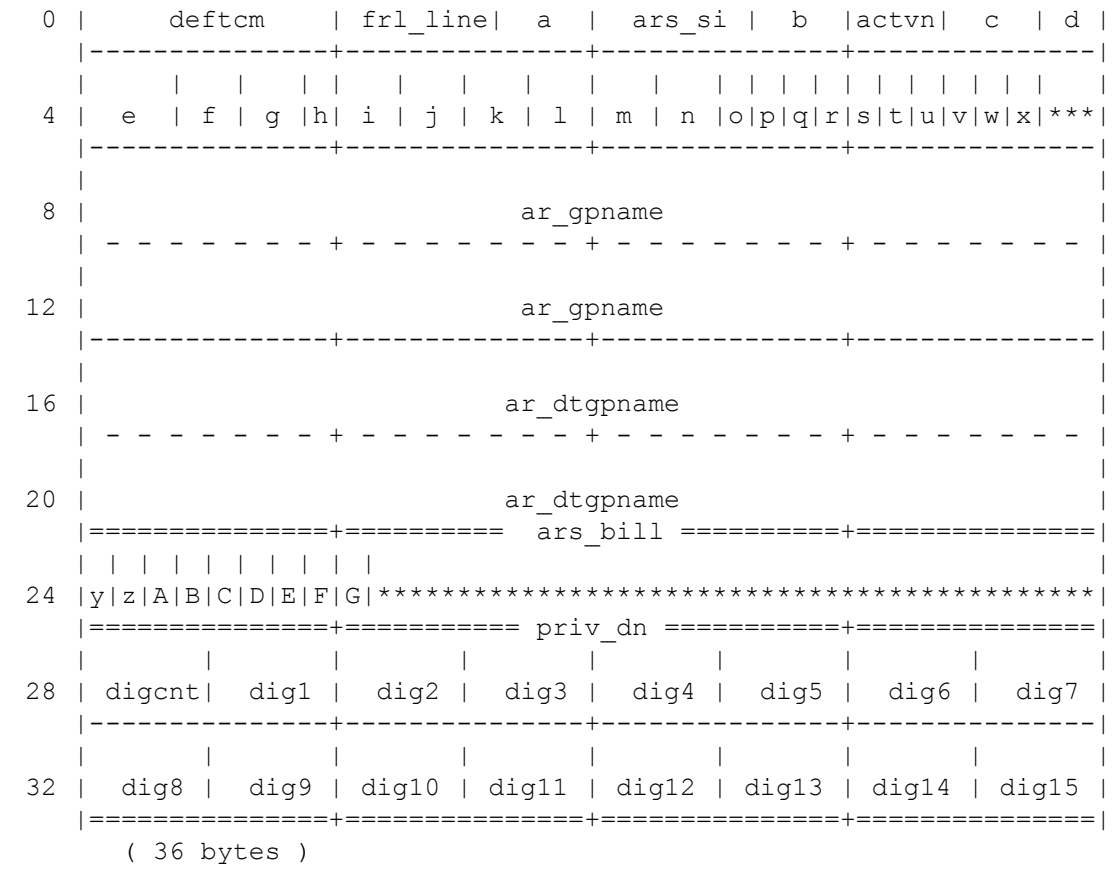


## 4. Population Rules for RLartm

**Relation Description:** Automatic Route selection Template.

This relation is the template for Automatic Route Selection (ARS) constructed features.

ARS Preconstructed Feature Definitions

| attrib. | /AR* | /ARCD | /ARGD | /ARC | /ARA | /ARAD | /ARADTCM | /ARADCCS |
|---|---|---|---|---|---|---|---|---|
| actvn | auto | auto | auto | auto | auto | auto | auto | auto |
| dctvn | code | code | none | none | none | none | none | none |
| gactvn | code | auto | code | auto | auto | auto | auto | auto |
| gdctvn | code | none | code | none | none | none | none | none |
| entry_pt | auto | auto | auto | code | auto | code | code | code |
| fltrerr | pots | pots | pots | pots | pots | pots | pots | pots |
| frl_err | reord | reord | reord | reord | reord | reord | reord | reord |
| frl_typ | var | var | var | fix | fix | var | var | var |
| chapg | yes | no | yes | no | no | no | no | no |
| chgaltfrl | yes | no | yes | no | no | no | no | no |
| chgerwt | no | no | no | no | no | no | no | no |
| tcmopt | no | no | no | no | no | no | yes | no |
| ccsa | no | no | no | no | no | no | no | yes |
| ars_bill | flat | flat | flat | flat | flat | flat | flat | flat |

/AR* ARS Wild Card
/ARCD Code Deactivate Deluxe ARS

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```
/ARGD        Deluxe ARS Group Control
/ARC         Flexible Route Selection
/ARA         Outward Calling for PBX via ARA
/ARAD        Use Code Deluxe ARS
/ARADTCM     Use Code Deluxe ARS with TCM
/ARADCCS     Use Code Deluxe ARS with CCSA Limit"
```

**Attribute: feat_id**

**Fullname:** Feature Identifier

**Attribute Description:** This attribute is the key to this relation, and is the ARS feature identifier.

**Attribute: entry_pt**

**Fullname:** Entry Points

**Attribute Description:** This attribute identifies which entry methods are accepted by the given ARS constructed feature.

**Attribute: fltrerr**

**Fullname:** Filter Error

**Attribute Description:** This attribute indicates the error treatment to be given when it is determined that the dialed code is inappropriate for ARS.

**Attribute: frl_err**

**Fullname:** Facility Restriction Level Error

**Attribute Description:** This attribute indicates the error treatment given when it is determined that a line has insufficient FRL to use a given facility.

**Attribute: frl_typ**

**Fullname:** Facility Restriction Level Type

**Attribute Description:** This attribute indicates the calling privileges associated with a line.

**Attribute: actvn**

**Fullname:** Activation

**Attribute Description:** This attribute specifies the types of constructed feature activation allowed for this feature.

**Attribute: dctvn**

**Fullname:** Deactivation

**Attribute Description:** This attribute specifies the types of deactivation allowed for this feature.

**Attribute: gactvn**

**Fullname:** Group Activation

**Attribute Description:** This attribute specifies the type of group activation for this feature.

**Attribute: gdctvn**

**Fullname:** Group Deactivation

**Attribute Description:** This attribute specifies the type of group deactivation for this feature.

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**Attribute: chgapg**

**Fullname:** Change Active Pattern Group

**Attribute Description:** This attribute indicates whether or not the active pattern group number changes are permitted by customer via dial-code.

**Attribute: chgerwt**

**Fullname:** Change Expense Warning Tone

**Attribute Description:** This attribute indicates whether or not expense warning tone changes are permitted by customer via dial-code.

**Attribute: chgaltfrl**

**Fullname:** Change Alternate FRL

**Attribute Description:** This attribute indicates whether or not activation/deactivation of the alternate FRL table is permitted by customer via dialed-code or time-of-day.

**Attribute: tcmin**

**Fullname:** Traveling Class Marks In

**Attribute Description:** This attribute indicates whether or not an incoming PRSN trunk is expecting to receive a 1- or 2-digit TCM. This attribute is used only for trunks.

**Attribute: tcmout**

**Fullname:** Traveling Class Marks Out

**Attribute Description:** This attribute indicates whether or not an outgoing PRSN trunk is expecting to send a 1- or 2-digit TCM. This attribute is used only for trunks.

```
If deftcm = 0 thru 7, then tcmout = 1 or 2.
If deftcm = 8 thru 16, then tcmout = 2.
If deftcm = 31, then tcmout = 0.
```

**Attribute: alw_mdr**

**Fullname:** Allow MDR

**Attribute Description:** This attribute indicates if this port requires MDR to revenue accounting office. For call types AMCCSASAMP, AMETSMDR, and AMETSCCSA only.

**Attribute: ars_tone**

**Fullname:** ARS Tone

**Attribute Description:** This attribute indicates the tone type chosen by the customer.

TN_NONE = 900ms. TNBEEP1 = 440HZ tone.

**Attribute: frl_line**

**Fullname:** Facility Restriction Level for Line

**Attribute Description:** This attribute indicates the FRL for line: this value is used to compare the frl_grp in RLrt_mcrt. The valid range of frl is 0 - 16, ARFRL_NONUSE(31) is used as an internal default to indicate the FRL was not populated

**Attribute: tcmopt**

**Fullname:** Traveling Class Marks On Private

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**Attribute Description:** This attributer indicates whether or not the private switching network customer wants traveling class marks (indication of a station's facility restriction level) passed between private network nodes.

**Attribute: ccsa**

**Fullname:** CCSA

**Attribute Description:** This attribute indicates whether CCSA limits apply to this constructed feature. If CCSA limits apply, they will only be used on calls using dialing plan 1.

**Attribute: ars_si**

**Fullname:** ARS Screening Index

**Attribute Description:** This attribute contains the ARS screening index.

**Attribute: use_alt_frl**

**Fullname:** Use Alternate FRL

**Attribute Description:** This attribute indicates if this port requires alternate FRL table treatment.

**Attribute: q_alwd**

**Fullname:** Queueing Allowed

**Attribute Description:** This attribute indicates whether or not modular queueing for outgoing private facilities is allowed.

**Attribute: qpriority**

**Fullname:** Queueing Priority

**Attribute Description:** This attribute indicates whether or not this line is a priority line for modular queueing for private facilities.

**Attribute: ars_bill**

**Fullname:** ARS Billing

**Attribute Description:** This attribute is a Boolean structure indicating the combination of several types of billing.

**Attribute: ars_bill.flat**

**Fullname:** Flat Rate Billing

**Attribute Description:** This sub-attribute indicates whether or not billing is done on a flat rate: that is, a flat rate means that there are no usage sensitive charges.

**Attribute: ars_bill.usefreq1**

**Fullname:** Usage Frequency charge for use of event 1

**Attribute Description:** This sub-attribute indicates whether or not billing is to include usage frequency charges for use of event 1.

**Attribute: ars_bill.usefreq2**

**Fullname:** Usage Frequency charge for use of event 2

**Attribute Description:** This sub-attribute indicates whether or not billing is to include usage frequency charges for use of event 2.

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**Attribute: ars_bill.usefreq3**

**Fullname:** Usage Frequency charge for use of event 3

**Attribute Description:** This sub-attribute indicates whether or not billing is to include usage frequency charges for use of event 3.

**Attribute: ars_bill.usefreq4**

**Fullname:** Usage Frequency charge for use of event 4

**Attribute Description:** This sub-attribute indicates whether or not billing is to include usage frequency charges for use of event 4.

**Attribute: ars_bill.actchrg**

**Fullname:** Activation Charge

**Attribute Description:** This sub-attribute indicates whether or not billing is to include usage charges for activation.

**Attribute: ars_bill.dactchrg**

**Fullname:** Deactivation Charge

**Attribute Description:** This sub-attribute indicates whether or not billing is to include usage charges for deactivation.

**Attribute: ars_bill.duration**

**Fullname:** Duration Charge

**Attribute Description:** This sub-attribute indicates whether or not billing is to include duration charges.

**Attribute: ars_bill.change**

**Fullname:** Change Charge

**Attribute Description:** This sub-attribute indicates whether or not billing is to include charges for change.

**Attribute: ar_gpname**

**Fullname:** Auto Route Selection Group Name

**Attribute Description:** This attribute contains the ARS group name for voice.

**Attribute: ar_dtgpname**

**Fullname:** Auto Route Selection Data Group Name

**Attribute Description:** This attribute contains the ARS group name for data. An ar_dtgpname cannot exist unless an ar_gpname currently exists. Data ARS groups cannot be created without the existence of voice ARS groups.

**Attribute: priv_dn**

**Fullname:** Private Billing Number

**Attribute Description:** This attribute is a structure containing the private billing number for this port for MDR (customer location or revenue accounting office).

**Attribute: priv_dn.digcnt**

**Fullname:** Digit Count

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**Attribute Description:** This sub-attribute contains the count of digits in the private billing number.

**Attribute: priv_dn.dn**
**Fullname:** DN for Private Billing

**Attribute Description:** This sub-attribute contains the dn for the private billing number.

**Attribute: un_dpln**
**Fullname:** Uniform Numbering Dialing Plan

**Attribute Description:** This attribute indicates the UN dialing plan number. Each port which is given auto ARS treatment must specify the PNDP to be used.

**Attribute: deftcm**
**Fullname:** Default Traveling Class Mark

**Attribute Description:** This attribute indicates the default traveling class mark to be used for calls that require a TCM to be outpulsed and therefore need an FRL for conversion into a TCM, but that do not receive an FRL in the trunk termination message returned from the AM. The valid two digit TCM is 0 - 16, ARFRL_NONUSE(31) is used as an internal default to indicate the FRL is not populated.

**Attribute: rlt_frlind**
**Fullname:** Release Link Trunk Facility Restriction Level Indicator

**Attribute Description:** This attribute indicates if the original caller's FRL is to be used in place of the attendant's FRL in routing the call and in the MDR record.

**Attribute: rlt_amaind**
**Fullname:** Release Link Trunk Automatic Message Accounting Indicator

**Attribute Description:** This attribute indicates whether the original caller's data is to be used in place of the attendant's data in the AMA record.

**Attribute: voice_ete**
**Fullname:** Options of End to End Q.931 Connectivity for Voice Call

**Attribute Description:** End to end voice call Q.931 connectivity options:

ETEDONTCARE Don't care if there us a ORI trunk available or not.

ETEPREFER PRI trunk is preferred to route a call. If there is no PRI trunk available, routing will use whatever trunk available.

ETEREQUIRE PRI trunk is required to route a call. If no PRI trunk exists, clearing procedure will be initiated.

**Attribute: data_ete**
**Fullname:** Options of End to End Q.931 Connectivity for Data Call

**Attribute Description:** End to end data call Q.931 connectivity options:

ETEDONTCARE Don't care if there us a ORI trunk available or not.

ETEPREFER PRI trunk is preferred to route a call. If there is no PRI trunk available, routing will

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use whatever trunk available.

ETEREQUIRE PRI trunk is required to route a call. If no PRI trunk exists, clearing procedure will be initiated.

**Defines:** "db/DMdnum.h"

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# ASI_CF

## 1. Description

Advanced service interface constructed feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 2 |
| ks key store | AUTO |

## 3. Field Layout

```
ASI_CF      relid = 1883  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL

     feat_id     DMFID        (ushort: 10)     <--- key
  (a) im_asgn    DMBOOL       (enum: 1)
  (b) ex_asgn    DMBOOL       (enum: 1)
  (c) spare1     DMBOOL       (enum: 1)
  (d) spare2     DMBOOL       (enum: 1)

         User and Compacted Tuple Layout     ASI_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   | | | | |                                   |
  0 |      feat_id      |a|b|c|d|***********************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )

     feat_id     DMFID        (ushort: 10)     <--- key
  (a) im_asgn    DMBOOL       (enum: 1)
  (b) ex_asgn    DMBOOL       (enum: 1)
  (c) spare1     DMBOOL       (enum: 1)
  (d) spare2     DMBOOL       (enum: 1)

           Stored Tuple Layout   ASI_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   | | | | |                                   |
  0 |      feat_id      |a|b|c|d|***********************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLasi_cf

### Relation Description

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Advanced Service Interface Constructed Feature

Construct the Advanced Service Interface (ASI) feature. The following is a list of valid service class for ports assigned this feature:

```
LINES
-----
FC_INDVDL
```

ASI cannot be assigned to trunks.

**Attribute: feat_id**

**Fullname:** Feature ID

**Attribute Description:** Advanced Service Interface feature identification This feature ID must be used with modular feature type MFASI Every feature ID should have a tuple in RLasi_opts with the same values in im_asgn and ex_asgn.

**Attribute: im_asgn**

**Fullname:** Implicit Mode Assigned

**Attribute Description:** Indicate if ASI feature includes the implicit mode.

**Attribute: ex_asgn**

**Fullname:** Explicit Mode Assigned

**Attribute Description:** Indicate if ASI feature includes the explicit mode.

**Attribute: spare1**

**Fullname:** Spare1

**Attribute Description:** Reserved for future use. Legal value set to the default.

**Attribute: spare2**

**Fullname:** Spare2

**Attribute Description:** Reserved for future use. Legal value set to the default.

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# ASI_GP

## 1. Description

Associates an Advanced Service Interface group with routing and signaling characteristics.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |

## 3. Field Layout

```
ASI_GP      relid = 1882  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP

     dial_code   DMBCD5_6     (array [ 4 ] of char )     <--- key
     grp_id      DMFACID      (ushort)     <--- key
     dest_x      DMDESTIDX    (ushort: 12)
 (a) sig_conv    DMBOOL       (enum: 1)
 (b) mea         DMBOOL       (enum: 1)
 (c) spare1      DMBOOL       (enum: 1)
 (d) spare2      DMBOOL       (enum: 1)
     route_x     DMRTEIDX     (ushort: 12)
     dest2_x     DMDESTIDX    (ushort: 12)
     route2_x    DMRTEIDX     (ushort: 12)
     charge_x    DMCHGIDX     (ushort: 11)
     charge2_x   DMCHGIDX     (ushort: 11)
     sig_t       DMASITSIG    (ushort: 10)
     acc_dn      DMDN         (struct)
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
     usecnt      DMFACUSCNT   (ulong)

         User, Compacted and Stored Tuple Layout ASI_GP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                           dial_code                           |
    |---------------+---------------+---------------+---------------|
    |                               |                       | | | | |
  4 |             grp_id            |         dest_x        |a|b|c|d|
    |---------------+---------------+---------------+---------------|
    |                       |       |                       |       |
  8 |        route_x        |*******|        dest2_x        |*******|
    |---------------+---------------+---------------+---------------|
    |                       |       |                   |           |
 12 |        route2_x       |*******|       charge_x    |*********|
    |---------------+---------------+---------------+---------------|
    |                     |         |                 |           |
```

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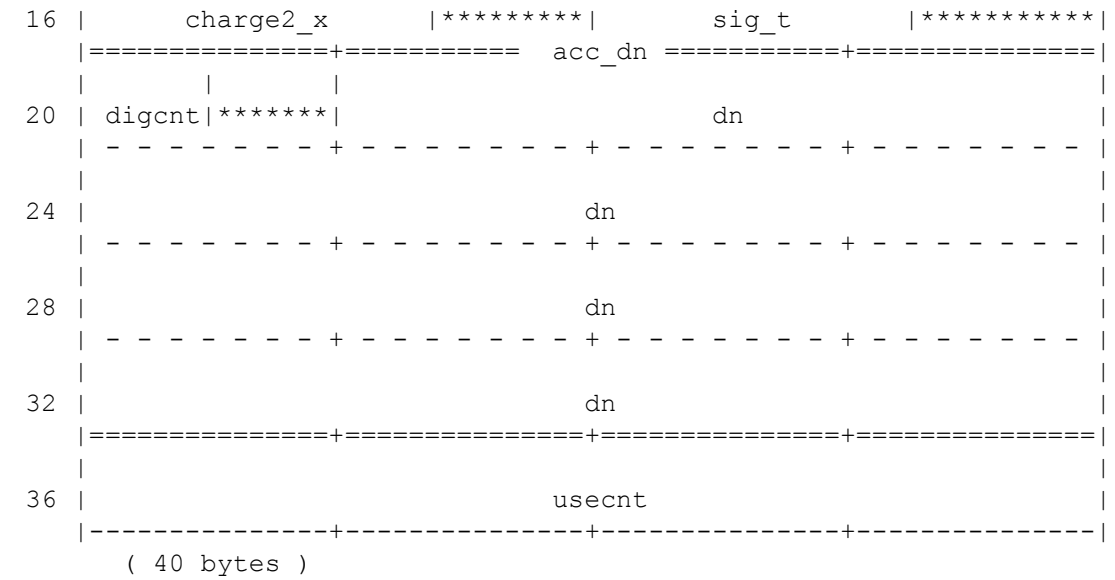


## 4. Population Rules for RLasi_gp

**Relation Description:** Advanced Service Interface Access Group.

Associates an Advanced Service Interface group to its trunk and signaling characteristics.

**Attribute: grp_id**

**Fullname:** Advanced Service Interface Group ID

**Attribute Description:** Advanced Service Interface Group to which this line belongs.

**Attribute: dial_code**

**Fullname:** Dialed Access Code Digits

**Attribute Description:** Dialed access code digits - a string of up to 5 digits.

**Attribute: sig_t**

**Fullname:** Signal Timing

**Attribute Description:** Signal conversion release timing.

**Attribute: acc_dn**

**Fullname:** Access Directory Number

**Attribute Description:** Access directory number to the intelligent peripheral (IP).

**Attribute: acc_dn.digcnt**

**Fullname:** Access Directory Number digit count

**Attribute Description:** Count of digits in the access directory number. Legal value has been set to the default for unused attributes.

**Attribute: acc_dn.dn**

**Fullname:** Access Directory Number

**Attribute Description:** Actual digits of a access directory number. Legal value has been set to the

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default for unused attributes.

**Attribute: dest_x**

**Fullname:** Destination index

**Attribute Description:** Spare destination index. Legal value has been set to the default for unused attributes.

**Attribute: route_x**

**Fullname:** Route Index

**Attribute Description:** Route index used to route the call.

**Attribute: usecnt**

**Fullname:** Usage count

**Attribute Description:** This is a count of the number of RLasi_port tuples that are using the same ASI group id and service code. It is needed so that RC can determine when an ASI group is in use by lines or BFGs. (ASI groups are created and deleted on RC/V 4.61). RLasi_gp tuples cannot be deleted if there are lines or BFGs assigned to the ASI group. This count is only incremented for the lines (RLasi_port) with a valid service code.

**Attribute: charge_x**

**Fullname:** Charge Index

**Attribute Description:** Charge index. Legal value has been set to the default for unused attributes.

**Attribute: dest2_x**

**Fullname:** Second Destination Index

**Attribute Description:** Spare destination index. Legal value has been set to the default for unused attributes.

**Attribute: route2_x**

**Fullname:** Second Route Index

**Attribute Description:** Spare Route index used to route the call. Legal value has been set to the default for unused attributes.

**Attribute: charge2_x**

**Fullname:** Second Charge Index

**Attribute Description:** Spare Charge index. Legal value has been set to the default for unused attributes.

**Attribute: sig_conv**

**Fullname:** Signal Conversion

**Attribute Description:** Signal conversion may be needed on this route.

**Attribute: mea**

**Fullname:** Modified Explicit Access

**Attribute Description:** Indicates whether signal conversion on an extended leg by an IP or user dialed call is allowed.

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**Attribute: spare1**

**Fullname:** Spare1

**Attribute Description:** Reserved for future use. Legal value has been set to the default for unused attributes.

**Attribute: spare2**

**Fullname:** Spare2

**Attribute Description:** Reserved for future use. Legal value has been set to the default for unused attributes.

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# ASI_OPTS

## 1. Description

Advanced service interface.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 512 |
| data page size | 256 |
| page level | 2 |
| ks key store | DBNO |

## 3. Field Layout

```
ASI_OPTS    relid = 1886  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP

     feat_id     DMFID        (ushort: 10)     <--- key, not stored
     sid         DMBCD_BDN    (array [ 6 ] of char )
 (a) im_asgn     DMBOOL       (enum: 1)
 (b) ex_asgn     DMBOOL       (enum: 1)
 (c) ra          DMBOOL       (enum: 1)
 (d) ip_dial_bill  DMBOOL       (enum: 1)
 (e) ex_bill     DMBOOL       (enum: 1)
 (f) spare1      DMBOOL       (enum: 1)
 (g) spare2      DMBOOL       (enum: 1)
 (h) spare3      DMBOOL       (enum: 1)
 (i) spare4      DMBOOL       (enum: 1)
     grp_name    DMFACNAME    (array [ 8 ] of char )
     serv_code   DMBCD5_6     (array [ 4 ] of char )
     remr_code   DMBCD5_6     (array [ 4 ] of char )
     ra_code     DMBCD5_6     (array [ 4 ] of char )
     spare1_code  DMBCD5_6     (array [ 4 ] of char )
     spare2_code  DMBCD5_6     (array [ 4 ] of char )

         User and Compacted Tuple Layout   ASI_OPTS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  0 |      feat_id      |*******************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                              sid                              |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                 | | | | | | | | |             |
  8 |              sid                |a|b|c|d|e|f|g|h|i|*************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                            grp_name                           |
```

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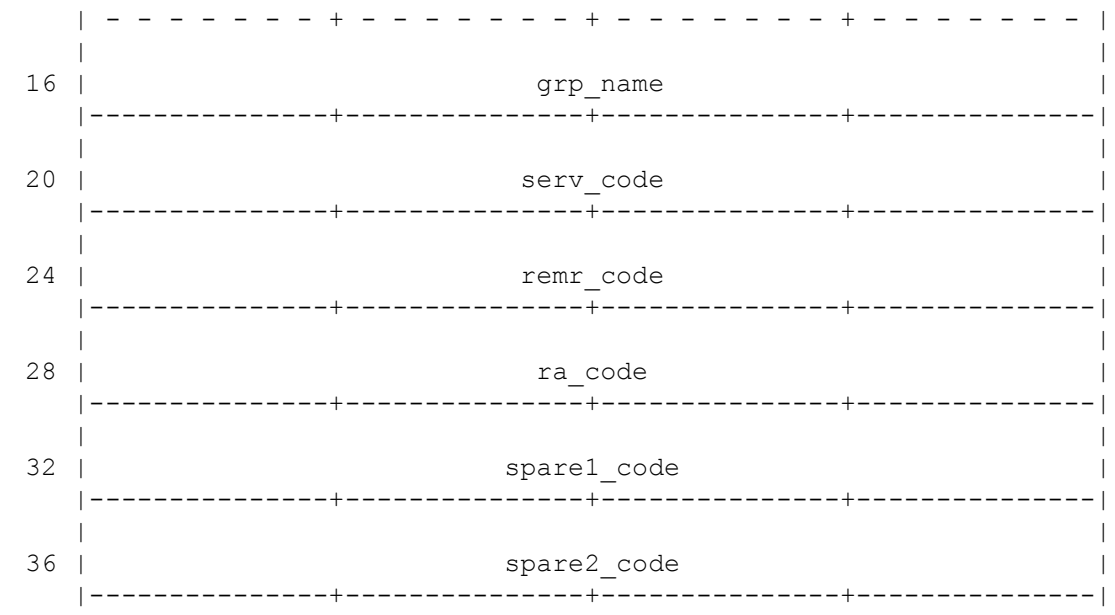
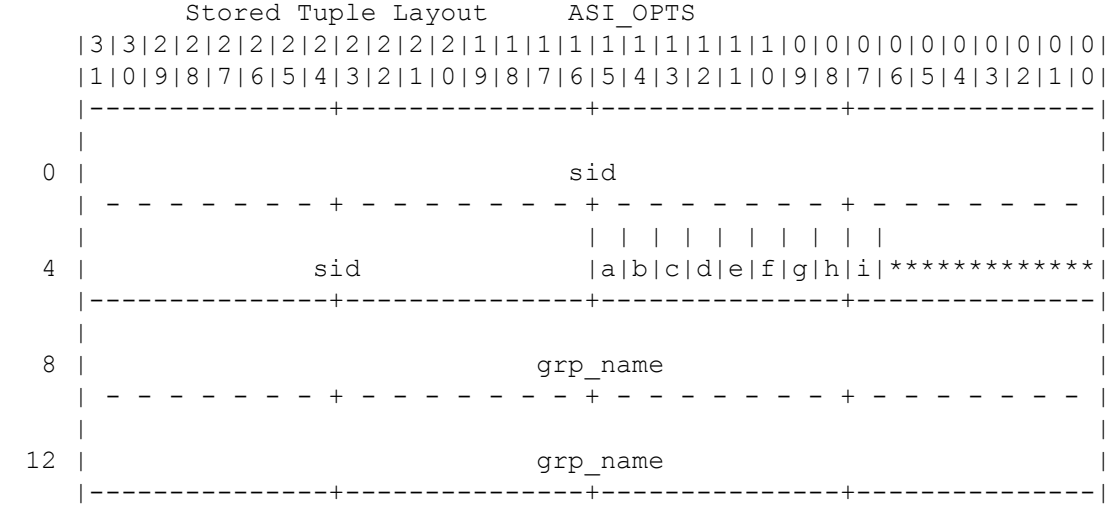



( 40 bytes )

```
    sid          DMBCD_BDN     (array [ 6 ] of char )
(a) im_asgn      DMBOOL        (enum: 1)
(b) ex_asgn      DMBOOL        (enum: 1)
(c) ra           DMBOOL        (enum: 1)
(d) ip_dial_bill  DMBOOL         (enum: 1)
(e) ex_bill      DMBOOL        (enum: 1)
(f) spare1       DMBOOL        (enum: 1)
(g) spare2       DMBOOL        (enum: 1)
(h) spare3       DMBOOL        (enum: 1)
(i) spare4       DMBOOL        (enum: 1)
    grp_name     DMFACNAME     (array [ 8 ] of char )
    serv_code    DMBCD5_6      (array [ 4 ] of char )
    remr_code    DMBCD5_6      (array [ 4 ] of char )
    ra_code      DMBCD5_6      (array [ 4 ] of char )
    spare1_code  DMBCD5_6       (array [ 4 ] of char )
    spare2_code  DMBCD5_6       (array [ 4 ] of char )
```

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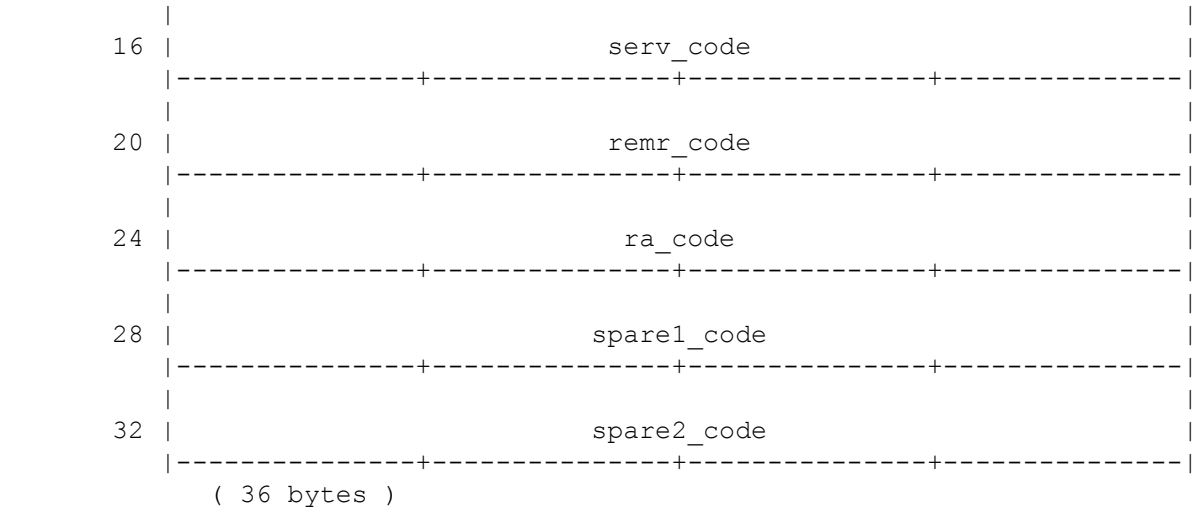


## 4. Population Rules for RLasi_opts

**Relation Description:** Advanced service interface (ASI) options.

ASI feature definition's options and defaults. The following population rules apply to each of the attributes using DMbcd5_6 domain:

```
      serv_code, ra_code, remr_code,
      spare1_code, and spare2._code
ODA:
      The length of an attribute of this
      I/O type does not imply the number
      of digits that can be stored in it.
RECENT CHANGE:
      The algorithm used to determine the
      number of digits storable in the attribute
      can be found in hdr/db/DBbcdmacs.h.
```

The domain DMbcd5_6 supports up to six binary coded decimal (BCD) digits plus a count of the actual number of digits stored. The ASI feature uses codes where the number of digits is between one and five. Number of digits = "\0" means no code exists. The digits are stored in BCD format, two per character (byte). The domain has three characters to represent up to six digits plus one character for the number of digits (the number of digits character is required by the I/O type). If the number of digits is < 6, the null character (which becomes same as digit 0 in BCD) is used to fill the remaining digits. The 'number of digits' character always contains the number of digits. The digits are stored in the attribute starting with D1.

```
Layout follows:
| byte 0  | byte 1  | byte 2  | byte 3  |
-----------------------------------------
|    |    |    |    |    |    |         |
| D1 | D2 | D3 | D4 | D5 | D6 | no. dig |
|    |    |    |    |    |    |         |
-----------------------------------------
```

**Attribute: feat_id**

**Fullname:** Feature ID

**Attribute Description:** ASI feature ID.

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**Attribute: grp_name**

**Fullname:** ASI group name

**Attribute Description:** ASI group to which this line belongs.

**Attribute: serv_code**

**Fullname:** Service code

**Attribute Description:** Implicit mode service code digits.

**Attribute: remr_code**

**Fullname:** Remote access reconnect code

**Attribute Description:** Remote access reconnect code digits.

**Attribute: ra_code**

**Fullname:** Remote access code

**Attribute Description:** Remote access code digits.

**Attribute: spare1_code**

**Fullname:** Spare1 access code

**Attribute Description:** Spare access code digits for future use. Legal value set to the default.

**Attribute: spare2_code**

**Fullname:** Spare2 access code

**Attribute Description:** Spare access code digits for future use. Legal value set to the default.

**Attribute: sid**

**Fullname:** ASI subscriber identification

**Attribute Description:** Identify subscriber to intelligent peripheral (IP). The subscriber ID is a number of one to ten digits If the number of digits equals zero, then no ID has been associated with the feature. The digits are stored in BCD, two per character (byte). The domain has five characters for the ten digits plus one character for the number of digits (number of digits character is required by the I/O type). If the number of digits is less than ten, the null character (which becomes same as digit '0' in BCD) is used to fill the remaining digits. The number of digits character always contains the number of digits. The digits are stored in the attribute starting with D1.

Layout follows:

| byte 0 | byte 1 | byte 2 | byte 3 | byte 4 | byte 5 |
|---|---|---|---|---|---|
| D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | D9 | D10 | no. dig |

**Attribute: im_asgn**

**Fullname:** Implicit mode assigned

**Attribute Description:** Indicate if ASI feature includes the implicit mode.

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**Attribute: ex_asgn**

**Fullname:** Explicit mode assigned

**Attribute Description:** Indicate if ASI feature includes the explicit mode.

**Attribute: ra**

**Fullname:** ASI remote access billing option

**Attribute Description:** Permit AMA billing for calls to the IP which went through the remote access front end process.

**Attribute: ip_dial_bill**

**Fullname:** IP dialed billing option

**Attribute Description:** Permit all IP dialed calls to generate an automatic message accounting (AMA) billing record.

**Attribute: ex_bill**

**Fullname:** Explicit billing

**Attribute Description:** Permit AMA billing for explicit access to the IP.

**Attribute: spare1**

**Fullname:** Spare1

**Attribute Description:** Reserved for future use. Legal value set to the default.

**Attribute: spare2**

**Fullname:** Spare2

**Attribute Description:** Reserved for future use. Legal value set to the default.

**Attribute: spare3**

**Fullname:** Spare3

**Attribute Description:** Reserved for future use. Legal value set to the default.

**Attribute: spare4**

**Fullname:** Spare4

**Attribute Description:** Reserved for future use. Legal value set to the default.

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# ASI_PORT

## 1. Description

Advanced Service Interface per-line data.

The tree diagram Figure 1 depicts the stored structure of virtual relation ASI_PORT.

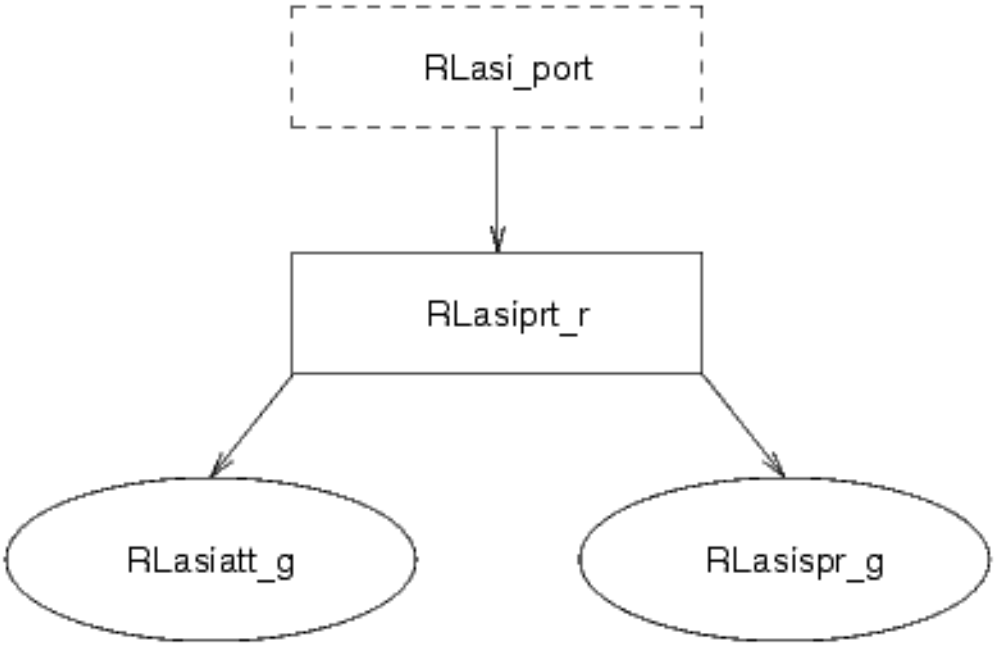


**Figure 1 Stored Structure of Virtual Relation ASI_PORT**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
ASI_PORT    relid = 1885  DBSTATIC   DBACC_OPV   DBNOTODD  LPFPFG  RCMAP

     sid          DMBCD_BDN     (array [ 6 ] of char )
     serv_code    DMBCD5_6      (array [ 4 ] of char )
 (a) spare1       DMBOOL        (enum: 1)
 (b) spare2       DMBOOL        (enum: 1)
 (c) spare3       DMBOOL        (enum: 1)
 (d) spare4       DMBOOL        (enum: 1)
     grp_id       DMFACID       (ushort)
     feat_id      DMFID         (ushort: 10)
 (e) ra           DMBOOL        (enum: 1)
 (f) ip_dial_bill  DMBOOL         (enum: 1)
 (g) ex_bill      DMBOOL        (enum: 1)
     lport        DMLPORT       (ushort: 16)      <--- key
 (h) lpt_type     DMLPT_TYPE    (enum: 2)      <--- key
```

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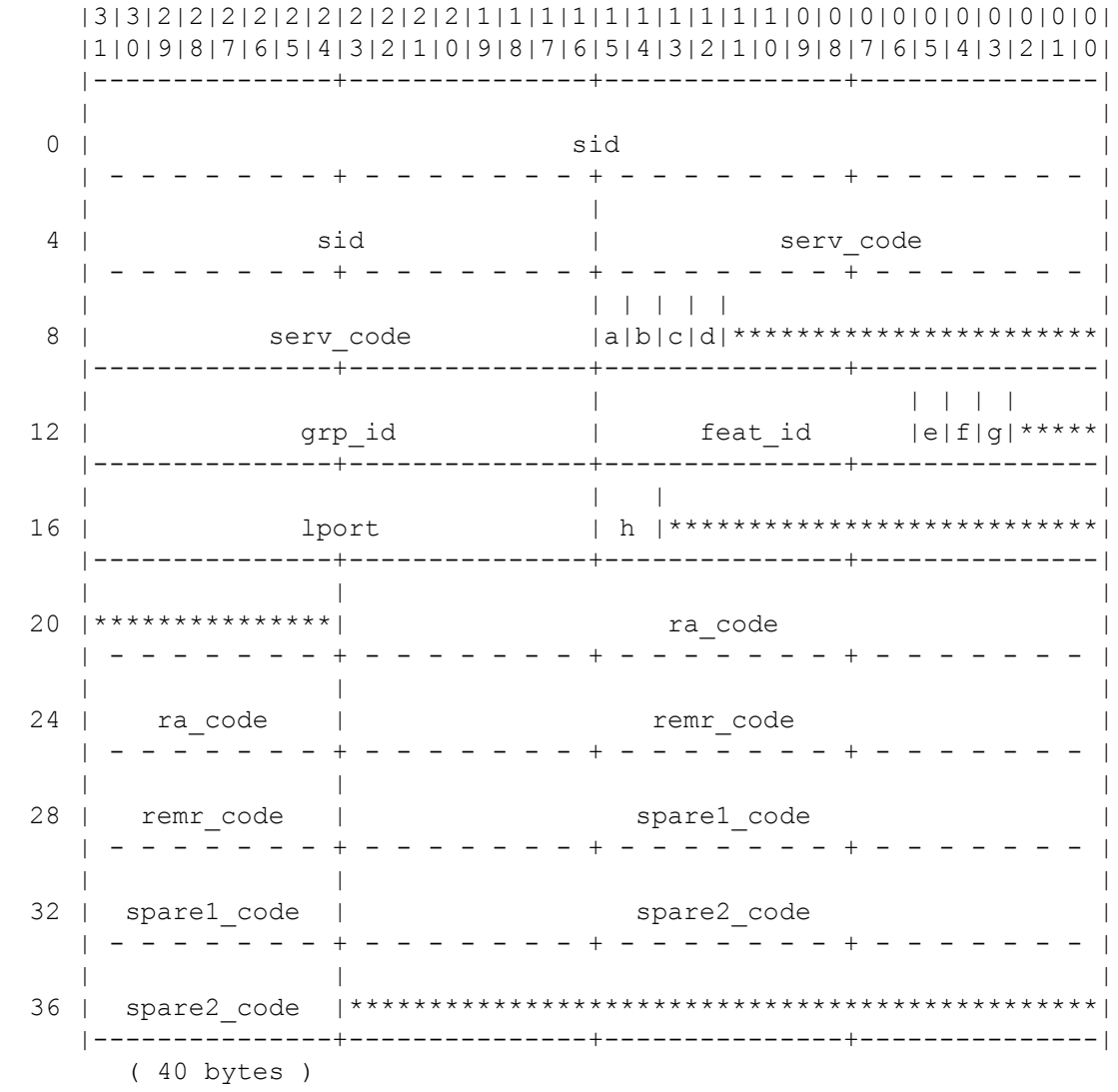
```
    ra_code     DMBCD5_6     (array [ 4 ] of char )
    remr_code   DMBCD5_6     (array [ 4 ] of char )
    spare1_code  DMBCD5_6     (array [ 4 ] of char )
    spare2_code  DMBCD5_6     (array [ 4 ] of char )
```

User, Compacted and Stored Tuple Layout ASI_PORT




( 40 bytes )

## 4. Population Rules for RLasi_port

### Relation Description

Advanced service interface (ASI) - proxy per port data.

ASI - proxy feature per-port data. This relation exists only for lines.

```
DISTRIBUTION:  group partitioned (if lpt_type = LPT_BFG) or
               switching module (SM) partitioned
```

This relation has two types of tuples.

(1) The first type is the existing tuples which are SM partitioned and remain unchanged. They are keyed by

lpt_type == LPT_OTHER and lport.

(2) The second type is the business and residential customer service (BRCS) feature group (BFG) group partitioned tuple, commonly referred to as a 'pseudo port' tuple, associated with features in a BFG. The lpt_type = LPT_BFG, and the bfgid populated in the lport field.

RLasi_port is an 'EITHER' type; therefore, both types of tuples may exist in this relation.

The following population rules applies to each of the attributes using DMbcd5_6 domain:

serv_code, ra_code, remr_code, spare1_code, and spare2._code

Office data administration (ODA):

The length of a structure of this I/O type does not imply the number of digits that can be stored in it.

Recent change:

The algorithm used to determine the number of digits storable in the structure can be found in hdr/db/DBbcdmacs.h

The domain DMbcd5_6 supports up to six BCD digits plus a count of the actual number of digits stored. The ASI feature uses a codes with a maximum of five digits ( 1 <= no. digits <= 5)). Number of digits = "\0" means no code exists.

The digits are stored in BCD format, two per character (byte). The domain has three characters to represent up to six digits plus one character for the number of digits (the number of digits character is required by the I/O type). If the number of digits is < 6, the null character (which becomes the same as digit 0 in BCD) is used to fill the remaining digits. The 'number of digits' character always contains the number of digits. The digits are stored in the attribute starting with D1.

Layout follows:

```
| byte 0  | byte 1  | byte 2  | byte 3  |
-----------------------------------------
|    |    |    |    |    |    |         |
| D1 | D2 | D3 | D4 | D5 | D6 | no. dig |
|    |    |    |    |    |    |         |
-----------------------------------------
```

**Attribute: lport**

**Fullname:** Logical port

**Attribute Description:** Logical port of the user being assigned the BRCS features.

```
If lpt_type == LPT_OTHER, RLasi_port.lport must equal
RLfc_line.lport.  The keys for RLfc_line are:
RLfc_line.port = RLlpt_pt(RLasi_port.lport,RLasi_port.lpt_type).port
RLfc_line.party =
                RLlpt_pt(RLasi_port.lport,RLasi_port.lpt_type).party

If lpt_type = LPT_BFG, then
RLasi_port.lport contains a BFG group ID.
```

If lpt_type == LPT_OTHER, there must be a tuple in RLfc_porttyp keyed by the RLlpt_pt(lport,lpt_type).port. If lpt_type = LPT_BFG, there must be a tuple in RLbfgmatch keyed by

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the bfgid contained in RLasi_port.lport. Verify the existence of a tuple in RLfc_line and a tuple in RLfc_porttyp for the RLlpt_pt(lport,lpt_type).port, and a tuple in RLtrmfeats keyed by the lport.

**Attribute: lpt_type**

**Fullname:** Logical port type

**Attribute Description:** Logical port type of the user.

**Attribute: feat_id**

**Fullname:** Feature ID

**Attribute Description:** Advanced service interface feature ID.

**Attribute: grp_id**

**Fullname:** Advanced service interface group ID.

**Attribute Description:** Advanced service interface group to which this line belongs.

**Attribute: serv_code**

**Fullname:** Service code

**Attribute Description:** Implicit mode service code digits.

**Attribute: remr_code**

**Fullname:** Remote access reconnect code

**Attribute Description:** Remote access reconnect code digits.

**Attribute: ra_code**

**Fullname:** Remote access code

**Attribute Description:** Remote access code digits.

**Attribute: spare1_code**

**Fullname:** Spare1 access code

**Attribute Description:** Spare access code digits for future use.

**Attribute: spare2_code**

**Fullname:** Spare2 access code

**Attribute Description:** Spare access code digits for future use.

**Attribute: sid**

**Fullname:** Advanced service interface subscriber identification

**Attribute Description:** Identify subscriber to intelligent peripheral (IP). If the sid attribute was not entered from recent change (RC), then the sid attribute digits will be set to null and the number of digits to zero. The sid attribute is a number of up to 10 digits where the number of digits = ( 1 <= no. digits <= 10). If the number of digits = 0, this means the subscriber ID is not present. The digits are stored in BCD, two per character (byte). The domain used for the sid attribute has five characters for the ten digits plus one character for the number of digits (number of digits character is required by the I/O type). If the number of digits is less than 10, the null character (which becomes the same as digit 0 in BCD) is used to fill the remaining digits. The number of digits character always contains the number of digits. The digits are stored in the attribute starting with D1.

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Layout follows:

```
byte 0  | byte 1  | byte 2  | byte 3  | byte 4  | byte 5  |
-------------------------------------------------------------
   |     |     |     |     |     |     |     |     |         |
D1 | D2  | D3  | D4  | D5  | D6  | D7  | D8  | D9  |D10  | no. dig.|
   |     |     |     |     |     |     |     |     |         |
-------------------------------------------------------------
```

**Attribute: ra**

**Fullname:** ASI remote access billing option

**Attribute Description:** Permit AMA billing for calls to the IP which went through the remote access front end process.

**Attribute: ip_dial_bill**

**Fullname:** IP dialed billing option

**Attribute Description:** Permit all IP dialed calls to generate an automatic message accounting (AMA) billing record

**Attribute: ex_bill**

**Fullname:** Explicit billing

**Attribute Description:** Permit AMA billing for explicit access to the IP

**Attribute: spare1**

**Fullname:** Spare1

**Attribute Description:** Reserved for future use. Legal value has been set to the default.

**Attribute: spare2**

**Fullname:** Spare2

**Attribute Description:** Reserved for future use. Legal value has been set to the default.

**Attribute: spare3**

**Fullname:** Spare3

**Attribute Description:** Reserved for future use. Legal value has been set to the default.

**Attribute: spare4**

**Fullname:** Spare4

**Attribute Description:** Reserved for future use. Legal value has been set to the default.

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# ASIATT_G

## 1. Description

Advanced service interface per-line data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4000 |
| expected number of tuples | 100 |
| access type | DBACC_GK |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTORAGE |
| memory type | DBPRAM |
| head table size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel GK-index relation | rlASIA_I |

## 3. Field Layout

```
ASIATT_G    relid = 1912  DBSTORAGE  DBACC_GK    DBPRAM    LPFPFG  RCMAP

    gkASIATT_G  DMGK14       (ulong: 14)     <--- key, not stored
    grp_id      DMFACID      (ushort)
    feat_id     DMFID        (ushort: 10)
 (a) ra         DMBOOL       (enum: 1)
 (b) ip_dial_bill  DMBOOL      (enum: 1)
 (c) ex_bill     DMBOOL       (enum: 1)
    serv_code   DMBCD5_6     (array [ 4 ] of char )

        User and Compacted Tuple Layout   ASIATT_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
 0  |*********************************|         gkASIATT_G            |
    |---------------+---------------+---------------+---------------|
    |                                 |                   | | | |     |
 4  |              grp_id             |      feat_id      |a|b|c|*****|
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 8  |                           serv_code                             |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )

    grp_id      DMFACID      (ushort)
    feat_id     DMFID        (ushort: 10)
 (a) ra         DMBOOL       (enum: 1)
 (b) ip_dial_bill  DMBOOL      (enum: 1)
 (c) ex_bill     DMBOOL       (enum: 1)
    serv_code   DMBCD5_6     (array [ 4 ] of char )
```

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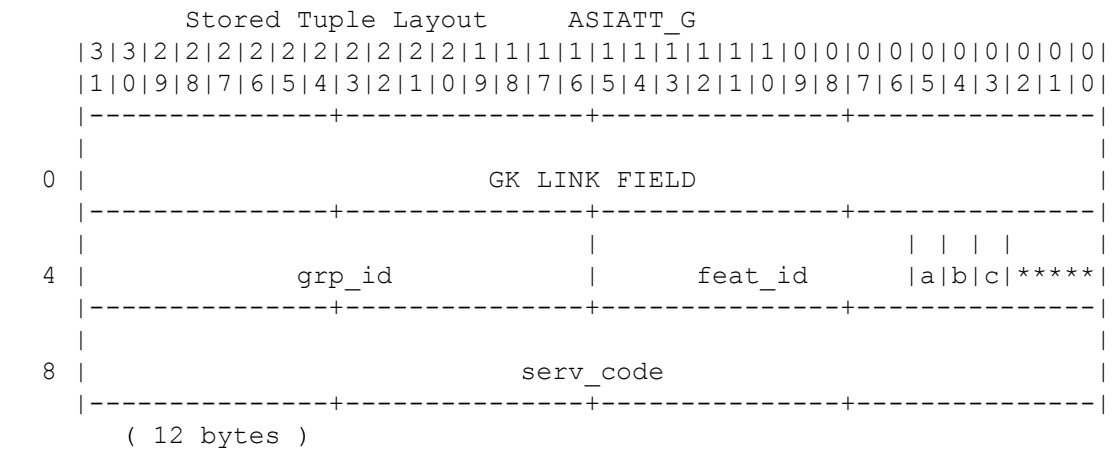


## 4. Population Rules for RLasiatt_g

There are no population rules for this relation.

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# ASIPRT_R

## 1. Description

Advanced service interface per-line data.

This is a root storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 500 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTORAGE |
| l1 length of subkey | 2 |
| p1 position of subkey | 16 |
| l2 length of subkey | 16 |
| p2 position of subkey | 0 |
| ks key store | AUTO |

## 3. Field Layout

```
ASIPRT_R    relid = 1914  DBSTORAGE  DBACC_CIND  DBPRAM    LPFPFG  RCMAP

     lport       DMLPORT      (ushort: 16)     <--- key, not stored
 (a) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key, not stored
     sid         DMBCD_BDN    (array [ 6 ] of char )
     attptr      DMGK14       (ulong: 14)
     spareptr    DMGK14       (ulong: 14)

         User and Compacted Tuple Layout   ASIPRT_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |   |                           |
  0 |              lport            | a |***************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             sid                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                           |   |
  8 |               sid             |           attptr          |***|
    |---------------+---------------+---------------+---------------|
    |                           |                                   |
 12 |          spareptr         |***********************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )

     sid         DMBCD_BDN    (array [ 6 ] of char )
     attptr      DMGK14       (ulong: 14)
     spareptr    DMGK14       (ulong: 14)

           Stored Tuple Layout     ASIPRT_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
```

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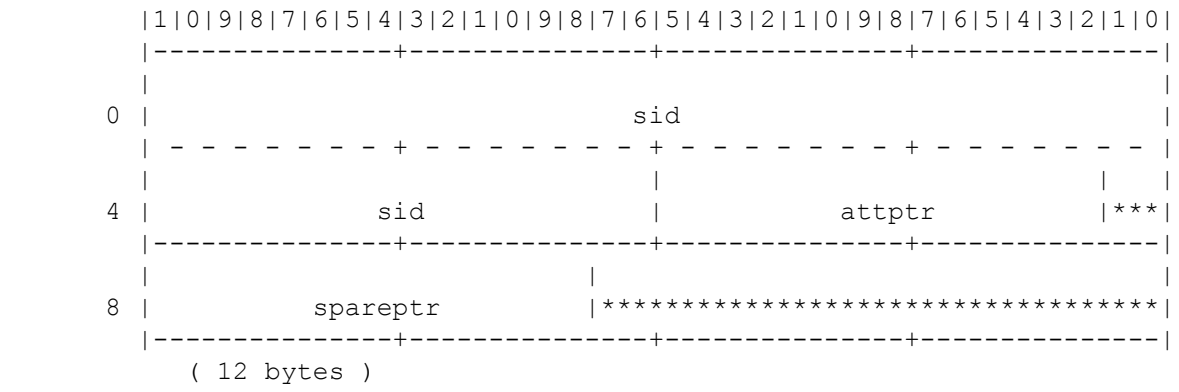


## 4. Population Rules for RLasiprt_r

There are no population rules for this relation.

# ASISPR_G

## 1. Description

Advanced service interface per-line data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4000 |
| expected number of tuples | 10 |
| access type | DBACC_GK |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTORAGE |
| memory type | DBPRAM |
| head table size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel GK-index relation | rlASIS_I |

## 3. Field Layout

```
ASISPR_G    relid = 1913  DBSTORAGE  DBACC_GK    DBPRAM    LPFPFG  RCMAP

    gkASISPR_G  DMGK14       (ulong: 14)     <--- key, not stored
 (a) spare1      DMBOOL       (enum: 1)
 (b) spare2      DMBOOL       (enum: 1)
 (c) spare3      DMBOOL       (enum: 1)
 (d) spare4      DMBOOL       (enum: 1)
    ra_code     DMBCD5_6     (array [ 4 ] of char )
    remr_code   DMBCD5_6     (array [ 4 ] of char )
    spare1_code  DMBCD5_6     (array [ 4 ] of char )
    spare2_code  DMBCD5_6     (array [ 4 ] of char )

        User and Compacted Tuple Layout   ASISPR_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 0 |*********************************|         gkASISPR_G            |
   |---------------+---------------+---------------+---------------|
   | | | | |       |                                               |
 4 |a|b|c|d|*******|                    ra_code                    |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |               |                                               |
 8 |    ra_code    |                   remr_code                   |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |               |                                               |
12 |   remr_code   |                  spare1_code                  |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |               |                                               |
16 |  spare1_code  |                  spare2_code                  |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |               |                                               |
```

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```
 20 |  spare2_code  |*********************************************|
    |---------------+---------------+---------------+-------------|
       ( 24 bytes )

 (a) spare1      DMBOOL       (enum: 1)
 (b) spare2      DMBOOL       (enum: 1)
 (c) spare3      DMBOOL       (enum: 1)
 (d) spare4      DMBOOL       (enum: 1)
     ra_code     DMBCD5_6     (array [ 4 ] of char )
     remr_code   DMBCD5_6     (array [ 4 ] of char )
     spare1_code  DMBCD5_6     (array [ 4 ] of char )
     spare2_code  DMBCD5_6     (array [ 4 ] of char )

           Stored Tuple Layout     ASISPR_G
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                          GK LINK FIELD                        |
    |---------------+---------------+---------------+---------------|
    | | | | |       |                                               |
  4 |a|b|c|d|*******|                     ra_code                   |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                 |                                             |
  8 |    ra_code      |                    remr_code                |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                 |                                             |
 12 |   remr_code     |                  spare1_code                |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                 |                                             |
 16 |  spare1_code    |                  spare2_code                |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                 |                                             |
 20 |  spare2_code    |*********************************************|
    |-----------------+---------------+---------------+-------------|
       ( 24 bytes )
```

## 4. Population Rules for RLasispr_g

There are no population rules for this relation.

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# ASP_LTM

## 1. Description

This relation is for logical termination ports which have the ASP_terminating feature(s).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |
| spare | 32l |
| trigger function | RTtraspltm |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBYES |

## 3. Field Layout

```
ASP_LTM     relid = 1918  DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP


    lead_module  DMMODULE     (ushort: 8)      <--- key, not stored
 (a) ltm_type    DMLTM_TYPE   (enum: 1) <--- key, not stored
    ltm_idx     DMLTM_IDX    (ulong: 16)       <--- key, not stored
    t_natrig_timer  DMSHORT      (short)
    feat_id     DMFID        (ushort: 10)
 (b) tat_act     DMBOOL       (enum: 1)
 (c) tat_rout    DMBOOL       (enum: 1)
 (d) ffcf2       DMBOOL       (enum: 1)
 (e) ffcf4       DMBOOL       (enum: 1)
 (f) t_bltrig_act  DMBOOL       (enum: 1)
 (g) t_natrig_act  DMBOOL       (enum: 1)
    tat_trig    DMUNS8       (ushort: 8)
    ia_sim_act  DMCFSIM      (ushort: 8)
    ir_sim_act  DMCFSIM      (ushort: 8)
    ffcf1       DMUNS8       (ushort: 8)
    ffcf3       DMUNS8       (ushort: 8)
    t_bltrig    DMUNS8       (ushort: 8)
    t_natrig    DMUNS8       (ushort: 8)
        User and Compacted Tuple Layout    ASP_LTM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               | |                             |             |
 0 |  lead_module  |a|            ltm_idx            |*************|
   |---------------+---------------+---------------+---------------|
   |                               |                   | | | | | | |
 4 |         t_natrig_timer        |      feat_id      |b|c|d|e|f|g|
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
```

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```
 8 |    tat_trig   |   ia_sim_act  |   ir_sim_act  |     ffcf1     |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
12 |     ffcf3     |    t_bltrig   |    t_natrig   |***************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
16 |***************************************************************|
   |---------------+---------------+---------------+---------------|
      ( 20 bytes )
```

```
    t_natrig_timer  DMSHORT      (short)
    feat_id     DMFID        (ushort: 10)
(a) tat_act     DMBOOL       (enum: 1)
(b) tat_rout    DMBOOL       (enum: 1)
(c) ffcf2       DMBOOL       (enum: 1)
(d) ffcf4       DMBOOL       (enum: 1)
(e) t_bltrig_act  DMBOOL       (enum: 1)
(f) t_natrig_act  DMBOOL       (enum: 1)
    tat_trig    DMUNS8       (ushort: 8)
    ia_sim_act  DMCFSIM      (ushort: 8)
    ir_sim_act  DMCFSIM      (ushort: 8)
    ffcf1       DMUNS8       (ushort: 8)
    ffcf3       DMUNS8       (ushort: 8)
    t_bltrig    DMUNS8       (ushort: 8)
    t_natrig    DMUNS8       (ushort: 8)
          Stored Tuple Layout      ASP_LTM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                   | | | | | | |
 0 |         t_natrig_timer        |      feat_id      |a|b|c|d|e|f|
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 4 |    tat_trig   |   ia_sim_act  |   ir_sim_act  |     ffcf1     |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 8 |     ffcf3     |    t_bltrig   |    t_natrig   |***************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
12 |***************************************************************|
   |---------------+---------------+---------------+---------------|
      ( 16 bytes )
```

## 4. Population rules for RLasp_ltm

### Relation Description

Advanced Services Platform logical termination ports.

This relation is used for logical termination ports which subscribe to Advanced Services Platform (ASP) terminating feature(s).

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This is a corcable relation.

**Attribute:**
lead_module
**Fullname:**
Lead module
**Attribute Description:**
Lead module

**Attribute:**
ltm_type
**Fullname:**
Logical termination type
**Attribute Description:**
Logical termination index type

**Attribute:**
ltm_idx
**Fullname:**
Logical termination index
**Attribute Description:**
Logical termination index

**Attribute:**
feat_id
**Fullname:**
Feature ID
**Attribute Description:**
Advanced Services Platform feature ID.

**Attribute:**
tat_act
**Fullname:**
Terminating Attempt Trigger Activation
**Attribute Description:**
Trigger activation status for TAT. This is a corcable attribute.

**Attribute:**
tat_trig
**Fullname:**
Terminating Attempt Trigger
**Attribute Description:**
Trigger number for TAT.

**Attribute:**
tat_rout

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**Fullname:**
Terminating Attempt Trigger (TAT) Default Routing Flag
**Attribute Description:**
Specifies whether or not the call should be default routed to the TAT DN in case of a failure.

Only if an error occurs while communicating with the Service Control Point (SCP), not after the transaction is closed, and this attribute is set to DBYES, call processing will route the call to the port on which the TAT is assigned.

If Default Routing is not in effect (DBNO), the standard error treatment of reorder or announcement will be given when an error condition is encountered.

This attribute is used by the ASP Default Routing for TATs Special Feature (SFID 136). It cannot be equal to DBYES unless the feature has been purchased (SFID 136 is set) for the office.

**Attribute:**
ia_sim_act
**Fullname:**
Intra-office simultaneous active
**Attribute Description:**
Intra-office maximum number of simultaneously active forwarded calls.

**Attribute:**
ir_sim_act
**Fullname:**
Inter-office simultaneous active
**Attribute Description:**
Inter-office maximum number of simultaneously active forwarded calls.

**Attribute:**
ffcf1
**Fullname:**
Unsigned 8 reserved for future special features
**Attribute Description:**
Not assigned yet

**Attribute:**
ffcf2
**Fullname:**
Boolean reserved for future special features
**Attribute Description:**

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Not assigned yet

**Attribute:**
ffcf3
**Fullname:**
Unsigned 8 reserved for future special features
**Attribute Description:**
Not assigned yet

**Attribute:**
ffcf4
**Fullname:**
Bit reserved for future special features
**Attribute Description:**
Not assigned yet

**Attribute:**
t_bltrig_act
**Fullname:**
Terminating Busy Line Trigger Activation
**Attribute Description:**
Trigger activation status for Terminating Busy Line Trigger.
This is a corcable attribute.

**Attribute:**
t_bltrig
**Fullname:**
Terminating Busy Line Trigger
**Attribute Description:**
Trigger number for Terminating Busy Line trigger.

**Attribute:**
t_natrig_act
**Fullname:**
Terminating No Answer Trigger Activation
**Attribute Description:**
Trigger activation status for Terminating No Answer Trigger.
This is a corcable attribute.

**Attribute:**
t_natrig
**Fullname:**
Terminating No Answer Trigger
**Attribute Description:**
Trigger number for Terminating No Answer trigger.

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**Attribute:**
t_natrig_timer
**Fullname:**
Terminating No Answer Trigger Timer
**Attribute Description:**
This attribute specifies the value for the Terminating No Answer trigger timer.

**Defines:**
"db/DMservalw.h"

# ASP_PORT

## 1. Description

This relation defines the Advanced Services Platform per-line data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |
| spare | 32l |
| trigger function | RTtraspport |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBYES |

## 3. Field Layout

```
ASP_PORT    relid = 1916  DBSTATIC   DBACC_CIND  DBPRAM    LPFPFG  RCMAP


 (a) lpt_type    DMLPT_TYPE   (enum: 2) <--- key, not stored
     lport       DMLPORT      (ushort: 16)      <--- key, not stored
     o_natrig_timer  DMSHORT      (short)
     feat_id     DMFID        (ushort: 10)
 (b) ohi_act     DMBOOL       (enum: 1)
 (c) ohd_act     DMBOOL       (enum: 1)
 (d) ohd_dflt_rte  DMBOOL       (enum: 1)
 (e) fcd_act     DMBOOL       (enum: 1)
 (f) fcd_alw     DMBOOL       (enum: 1)
 (g) cdp_act     DMBOOL       (enum: 1)
     ohi_trig    DMUNS8       (ushort: 8)
     ohd_trig    DMUNS8       (ushort: 8)
     o_bltrig    DMUNS8       (ushort: 8)
     o_natrig    DMUNS8       (ushort: 8)
     ffcf1       DMUNS8       (ushort: 8)
     ffcf2       DMUNS8       (ushort: 8)
 (h) cdp_alw     DMBOOL       (enum: 1)
 (i) fai_act     DMBOOL       (enum: 1)
 (j) fai_alw     DMBOOL       (enum: 1)
 (k) o_bltrig_act  DMBOOL       (enum: 1)
 (l) o_natrig_act  DMBOOL       (enum: 1)
 (m) ffcf3       DMBOOL       (enum: 1)
 (n) ffcf4       DMBOOL       (enum: 1)
         User and Compacted Tuple Layout   ASP_PORT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |   |                           |                               |
  0 | a |***************************|             lport             |
```

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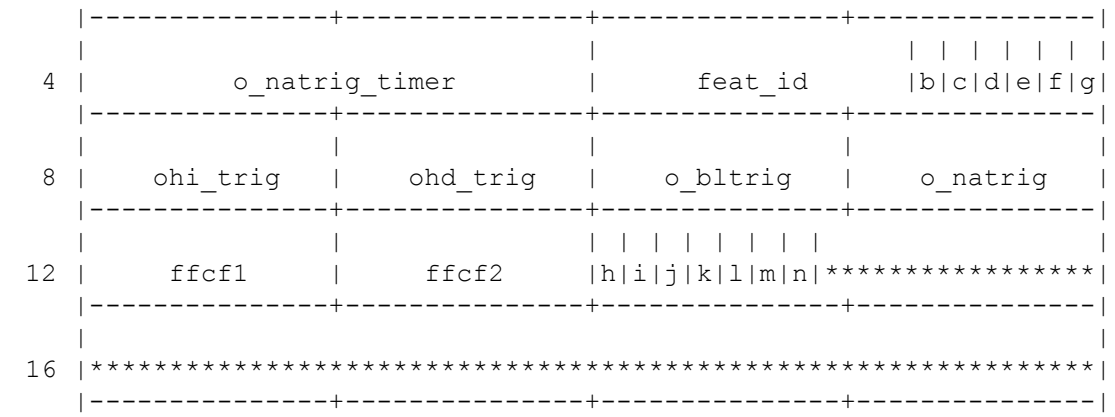
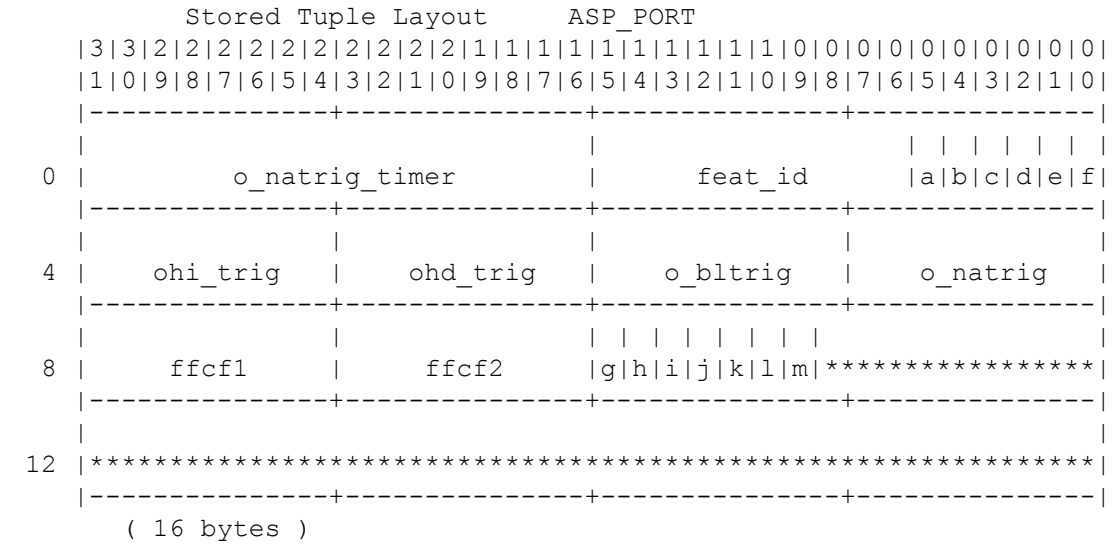



```
    o_natrig_timer  DMSHORT      (short)
    feat_id     DMFID        (ushort: 10)
(a) ohi_act     DMBOOL       (enum: 1)
(b) ohd_act     DMBOOL       (enum: 1)
(c) ohd_dflt_rte  DMBOOL       (enum: 1)
(d) fcd_act     DMBOOL       (enum: 1)
(e) fcd_alw     DMBOOL       (enum: 1)
(f) cdp_act     DMBOOL       (enum: 1)
    ohi_trig    DMUNS8       (ushort: 8)
    ohd_trig    DMUNS8       (ushort: 8)
    o_bltrig    DMUNS8       (ushort: 8)
    o_natrig    DMUNS8       (ushort: 8)
    ffcf1       DMUNS8       (ushort: 8)
    ffcf2       DMUNS8       (ushort: 8)
(g) cdp_alw     DMBOOL       (enum: 1)
(h) fai_act     DMBOOL       (enum: 1)
(i) fai_alw     DMBOOL       (enum: 1)
(j) o_bltrig_act  DMBOOL       (enum: 1)
(k) o_natrig_act  DMBOOL       (enum: 1)
(l) ffcf3       DMBOOL       (enum: 1)
(m) ffcf4       DMBOOL       (enum: 1)
```

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## 4. Population rules for RLasp_port

### Relation Description

Advanced Services Platform per-line data

Advanced Service Platform feature per-line data. This is a corcable relation.

**Attribute:**
lport
**Fullname:**
Logical port
**Attribute Description:**
Logical port of the user being assigned the BRCS features.

**Attribute:**
lpt_type
**Fullname:**
Logical Port Type
**Attribute Description:**
Logical port type of the user.

**Attribute:**
feat_id
**Fullname:**
Feature ID
**Attribute Description:**
Advanced Services Platform feature ID.

**Attribute:**
ohi_act
**Fullname:**
Off Hook Immediate Activation
**Attribute Description:**
Trigger activation status for OHI. This is a corcable attribute.

**Attribute:**
ohi_trig
**Fullname:**
Off Hook Immediate Trigger
**Attribute Description:**
Trigger number for OHI.

**Attribute:**

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ohd_act

**Fullname:**

Off Hook Delay Activation

**Attribute Description:**

Trigger activation status for OHD. This is a corcable attribute.

**Attribute:**

ohd_trig

**Fullname:**

Off Hook Delay Trigger

**Attribute Description:**

Trigger number for OHD.

**Attribute:**

ohd_dflt_rte

**Fullname:**

Off Hook Delay Default Routing Indicator

**Attribute Description:**

Default routing indicator for OHD trigger.

**Attribute:**

fcd_act

**Fullname:**

Feature Code Dialing Plan activation

**Attribute Description:**

Trigger activation status for Public Office Dialing Plan Feature Code (POPD FC). This is a corcable attribute.

**Attribute:**

fcd_alw

**Fullname:**

Feature Code Dialing Plan allow

**Attribute Description:**

Permission flag for Public Office Dialing Plan Feature Code (POPD FC).

**Attribute:**

cdp_act

**Fullname:**

Customized Dialing Plan activation

**Attribute Description:**

Trigger activation status for Customized Dialing Plan Feature (CDP). This is a corcable attribute.

**Attribute:**

cdp_alw

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**Fullname:**
Customized Dialing Plan allow
**Attribute Description:**
Permission flag for Customized Office Dialing Plan Feature(CPD).

**Attribute:**
fai_act
**Fullname:**
Feature Activation Indicator activation
**Attribute Description:**
Trigger activation status for FAI. This is a corcable attribute.

**Attribute:**
fai_alw
**Fullname:**
Feature Activation Indicator allowed
**Attribute Description:**
Permission flag for FAI.

**Attribute:**
o_bltrig_act
**Fullname:**
Originating Busy Line Trigger Activation
**Attribute Description:**
Activation status for Originating Busy Line Trigger.

**Attribute:**
o_bltrig
**Fullname:**
Originating Busy Line Trigger
**Attribute Description:**
Trigger number used for Originating Busy Line.

**Attribute:**
o_natrig_act
**Fullname:**
Originating No Answer Trigger Activation
**Attribute Description:**
Activation status for Originating No Answer Trigger.

**Attribute:**
o_natrig
**Fullname:**
Originating No Answer Trigger
**Attribute Description:**

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Trigger number used for Originating No Answer.

**Attribute:**
o_natrig_timer
**Fullname:**
Originating No Answer Trigger Timer
**Attribute Description:**
Timer used for an Originating No Answer Trigger.

**Attribute:**
ffcf1
**Fullname:**
Unsigned 8 reserved for future special features
**Attribute Description:**
Not assigned yet

**Attribute:**
ffcf2
**Fullname:**
Unsigned 8 reserved for future special features
**Attribute Description:**
Not assigned yet

**Attribute:**
ffcf3
**Fullname:**
Bit reserved for future special features
**Attribute Description:**
Not assigned yet

**Attribute:**
ffcf4
**Fullname:**
Bit reserved for future special features
**Attribute Description:**
Not assigned yet

**Defines:**
"db/DMservalw.h"

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# ASPN_OPT

## 1. Description

Advanced Services Platform non call feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |
| spare | 32l |

## 3. Field Layout

```
ASPN_OPT    relid = 2061  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP

     feat_id     DMFID        (ushort: 10)     <--- key
 (a) ness_act    DMBOOL       (enum: 1)
 (b) spare1      DMBOOL       (enum: 1)
 (c) spare3      DMBOOL       (enum: 1)
     ness_trig   DMUNS8       (ushort: 8)
     scp_grp_id  DMUNS8       (ushort: 8)
     spare2      DMUNS8       (ushort: 8)
     spare4      DMUNS8       (ushort: 8)

         User, Compacted and Stored Tuple Layout   ASPN_OPT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   | | | |     |               |               |
  0 |      feat_id      |a|b|c|*****|   ness_trig   |   scp_grp_id  |
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  4 |     spare2    |     spare4    |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |***************************************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLaspn_opt

### Relation Description

Advanced Services Platform Non-Call Options

Advanced Services Platform Non-call associated feature.

**Attribute: feat_id**

**Fullname:** Feature ID

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**Attribute Description:** Advanced Services Platform Non-call associated feature ID.

**Attribute: ness_act**

**Fullname:** Network Element Services Signaling Activation

**Attribute Description:** Trigger activation status for Network Element Services Signaling.

**Attribute: ness_trig**

**Fullname:** Network Element Services Signaling Trigger

**Attribute Description:** Trigger number for Network Element Services Signaling.

**Attribute: scp_grp_id**

**Fullname:** Service Control Point group ID

**Attribute Description:** Group ID for Service Control Point.

**Attribute: spare1**

**Fullname:** Spare boolean for future use

**Attribute Description:** Spare boolean for special feature.

**Attribute: spare2**

**Fullname:** Spare for future use

**Attribute Description:** Spare for use by special feature.

**Attribute: spare3**

**Fullname:** spare boolean for future use

**Attribute Description:** Spare for special feature.

**Attribute: spare4**

**Fullname:** Spare for future use

**Attribute Description:** Spare for special feature.

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# ASPNPORT

## 1. Description

Advanced Services Platform Non-Call data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |
| spare | 32l |
| corcable | DBNO |
| trigger function | RTtraspnport |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
ASPNPORT    relid = 2063  DBSTATIC   DBACC_CIND  DBPRAM    LPFPFG  RCMAP

     lport       DMLPORT      (ushort: 16)     <--- key
     feat_id     DMFID        (ushort: 10)
 (a) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key
 (b) ness_act    DMBOOL       (enum: 1)
 (c) spare1      DMBOOL       (enum: 1)
 (d) spare3      DMBOOL       (enum: 1)
     ness_trig   DMUNS8       (ushort: 8)
     scp_grp_id  DMUNS8       (ushort: 8)
     spare2      DMUNS8       (ushort: 8)
     spare4      DMUNS8       (ushort: 8)

         User, Compacted and Stored Tuple Layout   ASPNPORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                   |   | | | | |
  0 |             lport             |      feat_id      | a |b|c|d|*|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |   ness_trig   |   scp_grp_id  |     spare2    |     spare4    |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |***************************************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLaspnport

### Relation Description

Advanced Services Platform Non-Call per-line data.

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ASP non-call feature per-line data for Network Element Services Signaling (NESS) special feature. If the secured feature ASP NESS (SFID185) has not been purchased, then no tuples must be found in this relation, since feature assignments can not be made until after the feature is purchased.

**Attribute: lpt_type**

**Fullname:** Logical Port Type

**Attribute Description:** Logical port type of the user.

**Attribute: lport**

**Fullname:** Logical port

**Attribute Description:** Logical port of the user being assigned the feature.

**Attribute: feat_id**

**Fullname:** Feature ID

**Attribute Description:** Intelligent Network Service Signaling Package feature ID.

**Attribute: ness_act**

**Fullname:** Network Element Services Signaling Activation

**Attribute Description:** Trigger activation status for Network Element Services Signaling.

**Attribute: ness_trig**

**Fullname:** Network Element Services Signaling Trigger

**Attribute Description:** Trigger number for Network Element Services Signaling.

**Attribute: scp_grp_id**

**Fullname:** Service Control Point group ID

**Attribute Description:** Group ID for Service Control Point.

**Attribute: spare1**

**Fullname:** Spare for future use

**Attribute Description:** Spare for use by special feature.

**Attribute: spare2**

**Fullname:** Spare for future use

**Attribute Description:** Spare for use by special feature.

**Attribute: spare3**

**Fullname:** Spare for future use

**Attribute Description:** Spare for use by special feature.

**Attribute: spare4**

**Fullname:** Spare for future use

**Attribute Description:** Spare for use by special feature.

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# ASPO_OPT

## 1. Description

This relation defines the Advanced Services Platform originating feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | DBNO |
| spare | 32l |

## 3. Field Layout

```
ASPO_OPT    relid = 1915  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP


    feat_id     DMFID        (ushort: 10)      <--- key
 (a) ohi_act     DMBOOL       (enum: 1)
 (b) ohd_act     DMBOOL       (enum: 1)
 (c) ohd_dflt_rte  DMBOOL       (enum: 1)
 (d) fcd_act     DMBOOL       (enum: 1)
 (e) fcd_alw     DMBOOL       (enum: 1)
 (f) cdp_act     DMBOOL       (enum: 1)
    o_natrig_timer  DMSHORT      (short)
    ohi_trig    DMUNS8       (ushort: 8)
    ohd_trig    DMUNS8       (ushort: 8)
    o_bltrig    DMUNS8       (ushort: 8)
    o_natrig    DMUNS8       (ushort: 8)
    ffcf1       DMUNS8       (ushort: 8)
    ffcf2       DMUNS8       (ushort: 8)
 (g) cdp_alw     DMBOOL       (enum: 1)
 (h) fai_act     DMBOOL       (enum: 1)
 (i) fai_alw     DMBOOL       (enum: 1)
 (j) o_bltrig_act  DMBOOL       (enum: 1)
 (k) o_natrig_act  DMBOOL       (enum: 1)
 (l) ffcf3       DMBOOL       (enum: 1)
 (m) ffcf4       DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   ASPO_OPT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                   | | | | | | |                               |
 0 |      feat_id      |a|b|c|d|e|f|         o_natrig_timer        |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 4 |    ohi_trig   |    ohd_trig   |    o_bltrig   |    o_natrig   |
   |---------------+---------------+---------------+---------------|
   |               |               | | | | | | | |                 |
 8 |     ffcf1     |     ffcf2     |g|h|i|j|k|l|m|*****************|
   |---------------+---------------+---------------+---------------|
```

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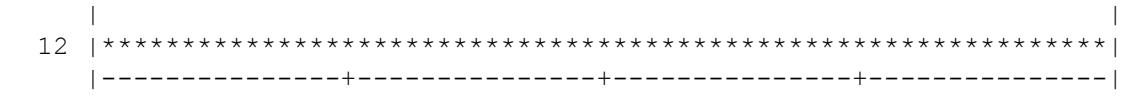


## 4. Population rules for RLaspo_opt

### Relation Description

Advanced services platform options

Advanced service platform originating feature.

**Attribute:**
feat_id
**Fullname:**
Feature ID
**Attribute Description:**
Advanced services platform feature ID.

**Attribute:**
ohi_act
**Fullname:**
Off hook immediate (OHI) activation
**Attribute Description:**
Trigger activation status for OHI.

**Attribute:**
ohi_trig
**Fullname:**
Off hook immediate trigger
**Attribute Description:**
Trigger number for OHI.

**Attribute:**
ohd_act
**Fullname:**
Off hook delay (OHD) activation
**Attribute Description:**
Trigger activation status for OHD

**Attribute:**
ohd_trig
**Fullname:**
Off hook delay trigger
**Attribute Description:**
Trigger number for OHD.

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**Attribute:**
ohd_dflt_rte
**Fullname:**
Off Hook Delay Default Routing Indicator
**Attribute Description:**
Default routing indicator for OHD trigger.

**Attribute:**
fcd_act
**Fullname:**
Feature code dialing plan activation
**Attribute Description:**
Trigger activation status for public office dialing plan feature code (POPD FC).

**Attribute:**
fcd_alw
**Fullname:**
Feature code dialing plan allow
**Attribute Description:**
Permission flag for POPD FC.

**Attribute:**
cdp_act
**Fullname:**
Customized dialing plan (CDP) activation
**Attribute Description:**
Trigger activation status for CDP.

**Attribute:**
cdp_alw
**Fullname:**
Customized dialing plan allow
**Attribute Description:**
Permission flag for CPD.

**Attribute:**
fai_act
**Fullname:**
Feature activation indicator (FAI) activation
**Attribute Description:**
Trigger activation status for FAI.

**Attribute:**
fai_alw
**Fullname:**
Feature activation indicator allowed

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**Attribute Description:**
Permission flag for FAI.

**Attribute:**
o_bltrig_act
**Fullname:**
Originating Busy Line Trigger Activation
**Attribute Description:**
Activation status for Originating Busy Line Trigger.

**Attribute:**
o_bltrig
**Fullname:**
Originating Busy Line Trigger
**Attribute Description:**
Trigger number used for Originating Busy Line.

**Attribute:**
o_natrig_act
**Fullname:**
Originating No Answer Trigger Activation
**Attribute Description:**
Activation status for Originating No Answer Trigger.

**Attribute:**
o_natrig
**Fullname:**
Originating No Answer Trigger
**Attribute Description:**
Trigger number used for Origination No Answer.

**Attribute:**
o_natrig_timer
**Fullname:**
Originating No Answer Trigger Timer
**Attribute Description:**
Timer used for an Originating No Answer Trigger.

**Attribute:**
ffcf1
**Fullname:**
Unsigned 8 reserved for future special features
**Attribute Description:**
Not assigned yet

**Attribute:**

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ffcf2

**Fullname:**

Unsigned 8 reserved for future special features

**Attribute Description:**

Not assigned yet

**Attribute:**

ffcf3

**Fullname:**

Bit reserved for future special features

**Attribute Description:**

Not assigned yet

**Attribute:**

ffcf4

**Fullname:**

Bit reserved for future special features

**Attribute Description:**

Not assigned yet

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# ASPT_OPT

## 1. Description

This relation defines the Advanced Services Platform terminating feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |
| spare | 32l |

## 3. Field Layout

```
ASPT_OPT    relid = 1920  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP


    t_natrig_timer  DMSHORT      (short)
    feat_id     DMFID        (ushort: 10)      <--- key
(a) tat_act     DMBOOL       (enum: 1)
(b) tat_rout    DMBOOL       (enum: 1)
(c) t_bltrig_act  DMBOOL       (enum: 1)
(d) t_natrig_act  DMBOOL       (enum: 1)
(e) ffcf2       DMBOOL       (enum: 1)
(f) ffcf4       DMBOOL       (enum: 1)
    tat_trig    DMUNS8       (ushort: 8)
    ia_sim_act  DMCFSIM      (ushort: 8)
    ir_sim_act  DMCFSIM      (ushort: 8)
    t_bltrig    DMUNS8       (ushort: 8)
    t_natrig    DMUNS8       (ushort: 8)
    ffcf1       DMUNS8       (ushort: 8)
    ffcf3       DMUNS8       (ushort: 8)
        User, Compacted and Stored Tuple Layout   ASPT_OPT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                   | | | | | | |
 0 |         t_natrig_timer        |      feat_id      |a|b|c|d|e|f|
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 4 |    tat_trig   |   ia_sim_act  |   ir_sim_act  |    t_bltrig   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 8 |    t_natrig   |     ffcf1     |     ffcf3     |***************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
12 |***************************************************************|
   |---------------+---------------+---------------+---------------|
      ( 16 bytes )
```

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## 4. Population rules for RLaspt_opt

### Relation Description

Advanced Services Platform Options

This relation is used to define the Advanced Services Platform (ASP) terminating feature(s).

**Attribute:**
feat_id
**Fullname:**
Feature ID
**Attribute Description:**
Advanced Services Platform feature ID.

**Attribute:**
tat_act
**Fullname:**
Terminating Attempt Trigger Activation
**Attribute Description:**
Trigger activation status for TAT.

**Attribute:**
tat_trig
**Fullname:**
Terminating Attempt Trigger
**Attribute Description:**
Trigger number for TAT.

**Attribute:**
tat_rout
**Fullname:**
Terminating Attempt Trigger (TAT) Default Routing Flag
**Attribute Description:**
Specifies whether or not the call should be default routed to the TAT DN in case of a failure.

Only if an error occurs while communicating with the Service Control Point (SCP), not after the transaction is closed, and this attribute is set to DBYES, call processing will route the call to the port on which the TAT is assigned.

If Default Routing is not in effect (DBNO), the standard error treatment of reorder or announcement will be given when an error condition is encountered.

This attribute is used by the ASP Default Routing for TATs Special Feature (SFID 136). It cannot be equal to DBYES unless the feature has been purchased (SFID 136 is

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set) for the office.

**Attribute:**
ia_sim_act
**Fullname:**
Intra-office simultaneous active
**Attribute Description:**
Intra-office maximum number of simultaneously active forwarded calls.

**Attribute:**
ir_sim_act
**Fullname:**
Inter-office simultaneous active
**Attribute Description:**
Inter-office maximum number of simultaneously active forwarded calls.

**Attribute:**
t_bltrig_act
**Fullname:**
Terminating Busy Line Trigger Activation
**Attribute Description:**
Trigger activation status for T_Busy trigger.
This is a corcable attribute.

**Attribute:**
t_bltrig
**Fullname:**
Trigger number for T_Busy trigger
**Attribute Description:**
Trigger number for Terminating Busy Trigger

**Attribute:**
t_natrig_act
**Fullname:**
Terminating No Answer Trigger Activation
**Attribute Description:**
Trigger activation status for Terminating No Answer Trigger.
This is a corcable attribute.

**Attribute:**
t_natrig
**Fullname:**
Trigger Number for T_NoAnswer trigger
**Attribute Description:**
Trigger number for Terminating No Answer Trigger

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**Attribute:**
t_natrig_timer
**Fullname:**
Terminating No Answer trigger Timer
**Attribute Description:**
This attribute specifies the value for the Terminating No Answer trigger timer.
**Attribute:**
ffcf1
**Fullname:**
Unsigned 8 reserved for future special features
**Attribute Description:**
Not assigned yet

**Attribute:**
ffcf2
**Fullname:**
Boolean reserved for future special features
**Attribute Description:**
Not assigned yet

**Attribute:**
ffcf3
**Fullname:**
Unsigned 8 reserved for future special features
**Attribute Description:**
Not assigned yet

**Attribute:**
ffcf4
**Fullname:**
Bit reserved for future special features
**Attribute Description:**
Not assigned yet

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# AT_CF

## 1. Description

Defines the attendant control constructed feature relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | DBNO |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |

## 3. Field Layout

```
AT_CF       relid = 1041  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL

     fid         DMFID        (ushort: 10)     <--- key, not stored
     actvn       DMMC_ACTYP   (enum: 3)
  (a) dctvn      DMMC_DCTYP   (enum: 2)
  (b) controller DMCNTRLR     (enum: 1)
  (c) amac       DMBOOL       (enum: 1)

         User and Compacted Tuple Layout  AT_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  0 |        fid        |*******************************************|
    |---------------+---------------+---------------+---------------|
    |     |   | | |                                                 |
  4 |actvn| a |b|c|*************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )

     actvn       DMMC_ACTYP   (enum: 3)
  (a) dctvn      DMMC_DCTYP   (enum: 2)
  (b) controller DMCNTRLR     (enum: 1)
  (c) amac       DMBOOL       (enum: 1)

           Stored Tuple Layout    AT_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |     |   | | |                                                 |
  0 |actvn| a |b|c|*************************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLat_cf

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**Relation Description:** Attendant control constructed features.

Defines the attendant control constructed feature relation The following is a list of valid service classes for ports assigned this feature:

```
LINES
-----
FC_INDVDL
FC_ISDN
FC_ISATND
FC_4WIRE_INDV
```

**Attribute: fid**

**Fullname:** feature ID - for modular feature type MFACTR

**Attribute Description:** This fid must be used with modular feature type MFACTR to obtain a 16 bit feature ID.

Verify that RLfacname has a tuple such that modular feature type MFACTR + fid = RLfacname.facid and

RLfacname.class = FACBRCS and

RLfacname.subclass = SCL_FEAT for that tuple.

**Attribute: controller**

**Fullname:** feature user - orig/term

**Attribute Description:** This attribute is DM_AT_ORIG only if the service class is FC_ISATND. DM_AT_TERM is never assigned to service class FC_ISATND.

**Attribute: actvn**

**Fullname:** activaton type

**Attribute Description:** Indicates method of activating MCC features. The two attributes (actions), activation and deactivation, together determine the customer options for the feature. The allowed options are as shown in the following layout:

```
Combination Act/Deact      Activation  Deactivation
1. Always active           ACTNONE     DCTNONE
2. Customer selected       ACTCD       DCTCD
   activation/deactivation
3. Customer selected       ACTCD       DCTAUTO
   activation/deactivation
   for one call only

Range of values: enumerated types ACTCD and ACTNONE
   Default: ACTNONE.
   Dependencies:
   Enum. value        Dependency
           *** ODA ONLY WARNING ***
           *** (NOT SUPPORTED BY RC) ***
   ACTCD       1) Verify the existence of a tuple in
   (activation    relation RLdaprlfnl or RLidp_dtre
   by dial code)  with 'action' set to ACN_FTACT and
```

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```
                        RLdaprlfnl.feat_id or RLidp_dtre.feat_id
                        has modular feature type MFACTR
                    2) RLat_cf.dctvn = DCTCD or DCTAUTO
    ACTNONE         1) RLat_cf.dctvn = DCTNONE
```

**Attribute: dctvn**

**Fullname:** de-activation type

**Attribute Description:** Indicates method of activating MCC features. The two attributes (actions), activation and deactivation, together determine the customer options for the feature. The allowed options are as shown in the following layout:

```
Combination Act/Deact       Activation  Deactivation
    1. Always active        ACTNONE     DCTNONE
    2. Customer selected    ACTCD       DCTCD
activation/deactivation
    3. Customer selected    ACTCD       DCTAUTO
activation/deactivation
for one call only

Range of values: enumerated types DCTAUTO, DCTCD
                 and DCTNONE
Default: DCTNONE.
                  Dependencies:
Enum. value       Dependency
        *** ODA ONLY WARNING ***
        *** (NOT SUPPORTED BY RC) ***
DCTAUTO      1) Verify the existence of a tuple in
(activation     relation RLdaprlfnl or RLidp_dtre
by dial code    with 'action' set to ACN_FTDCT
for 1 call)  2) RLat_cf.actvn = ACTCD
       *** ODA ONLY WARNING ***
       *** (NOT SUPPORTED BY RC) ***
  DCTCD      1) Verify the existence of a tuple in
(activation     relation RLdaprlfnl or RLidp_dtre
by dial code)   with 'action' set to ACN_FTDCT and
                RLdaprlfnl.feat_id or RLidp_dtre.feat_id
                has modular feature type MFACTR
             2) RLat_cf.actvn = ACTCD
DCTNONE      1) RLat_cf.actvn = ACTNONE
```

**Attribute: amac**

**Fullname:** AMA type

**Attribute Description:** AMA billing option always DBNO indicating flat rate billing.

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# AT_GRP

## 1. Description

Defines the per group data associated with the Attendant Control Constructed feature relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8064 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| corcable | DBYES |
| ks key store | AUTO |

## 3. Field Layout

```
AT_GRP      relid = 1042  DBSTATIC   DBACC_CIND  DBPRAM    LPFPFG  RCMAP

     acvt_gpid   DMFACID      (ushort)     <--- key, not stored
     err_dn      DMBCD_BDN    (array [ 6 ] of char )
     err_r_idx   DMRTEIDX     (ushort: 12)
 (a) acvt_res    DMAT_RES     (enum: 4)
     res_grp     DMAT_GRP     (ushort: 7)
     isat_idx    DMISATGRP    (ushort: 6)
 (b) err_treat   DMMC_ERTRT   (enum: 3)
 (c) active      DMBOOL       (enum: 1)

         User and Compacted Tuple Layout     AT_GRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |           acvt_gpid           |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             err_dn                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - |
    |                               |                       |       |
  8 |             err_dn            |       err_r_idx       |   a   |
    |---------------+---------------+---------------+---------------|
    |               |               |     | |                       |
 12 |   res_grp     |  isat_idx     |  b  |c|*******************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )

     err_dn      DMBCD_BDN    (array [ 6 ] of char )
     err_r_idx   DMRTEIDX     (ushort: 12)
 (a) acvt_res    DMAT_RES     (enum: 4)
     res_grp     DMAT_GRP     (ushort: 7)
     isat_idx    DMISATGRP    (ushort: 6)
 (b) err_treat   DMMC_ERTRT   (enum: 3)
 (c) active      DMBOOL       (enum: 1)
```

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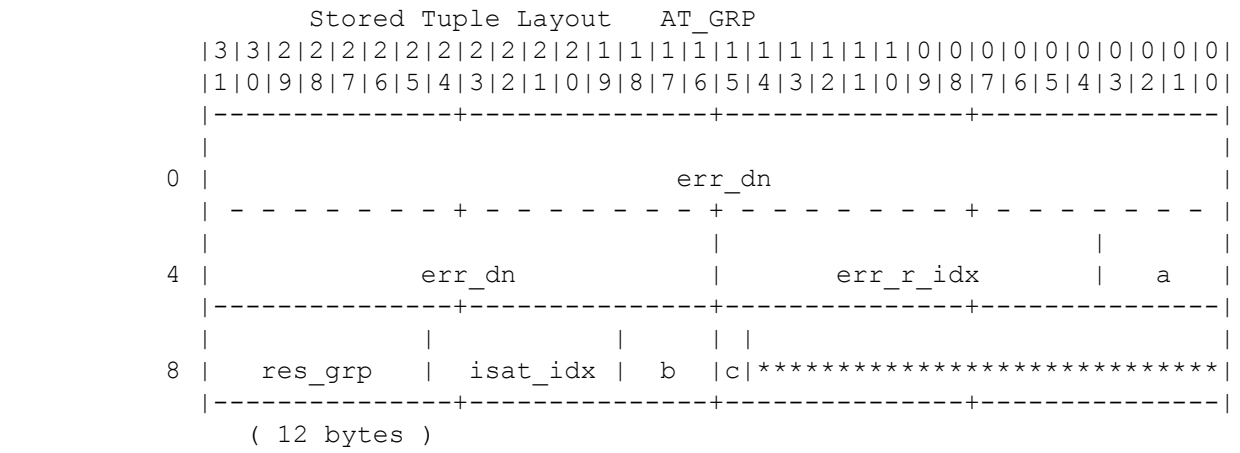


## 4. Population Rules for RLat_grp

**Relation Description**

Attendant Control Group

Defines the per group data associated with the Attendant Control Constructed Feature Relation

**Attribute: acvt_gpid**

**Fullname:** ACVT group ID for this ISAT group and restriction group

**Attribute Description:**

```
Verify that RLfacname has a tuple  such that
       acvt_gpid = RLfacname.facid
       RLfacname.class = FACACTR
       RLfacname.subclass = SCL_NULL
Each 'acvt_gpid' must have a unique 'isat_idx'
       and 'res_grp' combination.
```

**Attribute: isat_idx**

**Fullname:** ISDN attendant index

**Attribute Description:** There must be a tuple in RLRT_MHG with 'hunttype' RTH_ISAT such that the isat_idx attribute of that tuple equals this isat_idx.

**Attribute: res_grp**

**Fullname:** ACVT restriction group

**Attribute Description:** A number indicating which group the restricted DN belongs in.

**Attribute: acvt_res**

**Fullname:** ACVT restriction

**Attribute Description:** Condition under which calls are restricted ACVT Groups are not allowed to use the Direct Connect Restriction Levels, ODCTRES and ODCTNRES.

**Attribute: active**

**Fullname:** Active status

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**Attribute Description:** Active status for an ACUT group.

**Attribute: err_treat**

**Fullname:** error treatment

**Attribute Description:** Type of error treatment to be applied when restriction is active.

**Attribute: err_r_idx**

**Fullname:** error announcement route index

**Attribute Description:** If 'err_r_idx' > 0, then there must be a tuple in RLrt_routing keyed with this err_r_idx and RLrt_routing.route_type = RTE_HUNT. If 'err_r_idx' is not 0, then the digit count for 'err_dn' must be 0.

**Attribute: err_dn**

**Fullname:** DN where station is sent if an error occurs

**Attribute Description:** The error DN is a number of up to 10 digits ( no. digits = (1 <= no. digits <= 10)). Number of digits = 0 means no error DN is present. The digits are stored in BCD, two per character (byte). The domain used for err_dn has five characters for the ten digits plus one character for the number of digits (number of digits character is required by the I/O type). If the number of digits is < 10, the null character (which becomes same as digit 0 in BCD) is used to fill the remaining digits. The number of digits character always contains the number of digits. The digits are stored in the attribute starting with D1.

Layout follows:

```
byte 0  | byte 1  | byte 2  | byte 3  | byte 4  | byte 5 |
-------------------------------------------------------
   |     |     |     |     |     |     |     |     |     |
D1 | D2  | D3  | D4  | D5  | D6  | D7  | D8  | D9  |D10  |no. dig.|
   |     |     |     |     |     |     |     |     |     |
-------------------------------------------------------
Dependencies: If the no.dig. for 'err_dn' is not 0,
              then 'err_r_idx' must be 0.
```

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# AT_ID

## 1. Description

Contains the ISAT index and restriction group associated with a given FAC ID for the Attendant Control of Voice Terminals Constructed Feature

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8064 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |
| l1 length of subkey 1 | 4 |
| p1 position of subkey 1 | 0 |
| l2 length of subkey 2 | 4 |
| p2 position of subkey 2 | 6 |
| l3 length of subkey 3 | 2 |
| p3 position of subkey 3 | 4 |
| l4 length of subkey 4 | 3 |
| p4 position of subkey 4 | 10 |

## 3. Field Layout

```
AT_ID       relid = 1046  DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP

     isat_idx    DMISATGRP    (ushort: 6)     <--- key, not stored
     res_grp     DMAT_GRP     (ushort: 7)     <--- key, not stored
     acvt_gpid   DMFACID      (ushort)

         User and Compacted Tuple Layout  AT_ID
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |           |             |                                     |
  0 |  isat_idx |   res_grp   |*************************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |           acvt_gpid           |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )

     acvt_gpid   DMFACID      (ushort)

           Stored Tuple Layout    AT_ID
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |           acvt_gpid           |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLat_id

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**Relation Description**

Contains the Integrated Services Digital Network Attendant (ISAT) index

Contains the ISAT index and restriction group associated with a given FAC ID for the Attendant Control of Voice Terminals Constructed Feature. Distribution is GRP_PART with group type = GPDACVT. end relation;

**Attribute: isat_idx**

**Fullname:** Integrated Services Digital Network attendant index.

**Attribute Description:** Integrated services Digital Network attendant index. There must be a tuple in RLRT_MHG with hunttype RTH_ISAT such that the isat_idx.

**Attribute: res_grp**

**Fullname:** ACVT restriction group that station resides in.

**Attribute Description:** ACVT restriction group. A number indicating which group the restricted DN belongs in.

**Attribute: acvt_gpid**

**Fullname:** ACVT group ID for this ISAT group and restriction group.

**Attribute Description:** ACVT group ID for this ISAT group and restriction group.

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# AT_OPTS

## 1. Description

This relation defines the feature options for the Attendant Control Constructed feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| expected tuples in relation | 3 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | DBNO |
| permutation type | unperm |

## 3. Field Layout

```
AT_OPTS     relid = 1044  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP

     fid          DMFID         (ushort: 10)     <--- key, not stored
     err_dn       DMBCD_BDN     (array [ 6 ] of char )
     acvt_gpid    DMFACID       (ushort)
     err_r_idx    DMRTEIDX      (ushort: 14)
     actvn        DMMC_ACTYP    (enum: 3)
 (a) amac         DMBOOL        (enum: 1)
 (b) dctvn        DMMC_DCTYP    (enum: 2)
 (c) acvt_res     DMAT_RES      (enum: 4)
 (d) err_treat    DMMC_ERTRT    (enum: 3)
 (e) controller   DMCNTRLR      (enum: 1)
 (f) grp00        DMBOOL        (enum: 1)
 (g) grp01        DMBOOL        (enum: 1)
 (h) grp02        DMBOOL        (enum: 1)
 (i) grp03        DMBOOL        (enum: 1)
 (j) grp04        DMBOOL        (enum: 1)
 (k) grp05        DMBOOL        (enum: 1)
 (l) grp06        DMBOOL        (enum: 1)
 (m) grp07        DMBOOL        (enum: 1)
 (n) grp08        DMBOOL        (enum: 1)
 (o) grp09        DMBOOL        (enum: 1)
 (p) grp10        DMBOOL        (enum: 1)
 (q) grp11        DMBOOL        (enum: 1)
 (r) grp12        DMBOOL        (enum: 1)
 (s) grp13        DMBOOL        (enum: 1)
 (t) grp14        DMBOOL        (enum: 1)
 (u) grp15        DMBOOL        (enum: 1)
 (v) grp16        DMBOOL        (enum: 1)
 (w) grp17        DMBOOL        (enum: 1)
 (x) grp18        DMBOOL        (enum: 1)
 (y) grp19        DMBOOL        (enum: 1)
 (z) grp20        DMBOOL        (enum: 1)
 (A) grp21        DMBOOL        (enum: 1)
 (B) grp22        DMBOOL        (enum: 1)
 (C) grp23        DMBOOL        (enum: 1)
```

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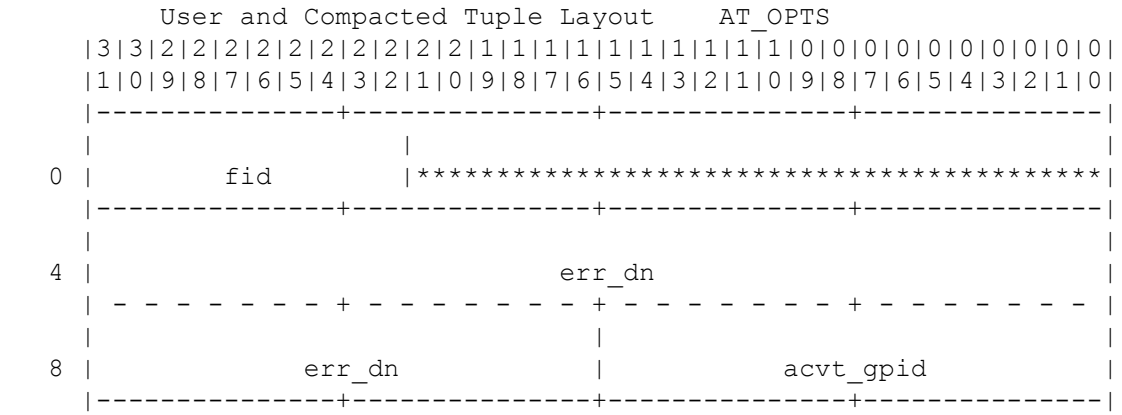
```
(D) grp24       DMBOOL       (enum: 1)
(E) grp25       DMBOOL       (enum: 1)
(F) grp26       DMBOOL       (enum: 1)
(G) grp27       DMBOOL       (enum: 1)
(H) grp28       DMBOOL       (enum: 1)
(I) grp29       DMBOOL       (enum: 1)
(J) grp30       DMBOOL       (enum: 1)
(K) grp31       DMBOOL       (enum: 1)
(L) grp32       DMBOOL       (enum: 1)
(M) grp33       DMBOOL       (enum: 1)
(N) grp34       DMBOOL       (enum: 1)
(O) grp35       DMBOOL       (enum: 1)
(P) grp36       DMBOOL       (enum: 1)
(Q) grp37       DMBOOL       (enum: 1)
(R) grp38       DMBOOL       (enum: 1)
(S) grp39       DMBOOL       (enum: 1)
(T) grp40       DMBOOL       (enum: 1)
(U) grp41       DMBOOL       (enum: 1)
(V) grp42       DMBOOL       (enum: 1)
(W) grp43       DMBOOL       (enum: 1)
(X) grp44       DMBOOL       (enum: 1)
(Y) grp45       DMBOOL       (enum: 1)
(Z) grp46       DMBOOL       (enum: 1)
(a) grp47       DMBOOL       (enum: 1)
(b) grp48       DMBOOL       (enum: 1)
(c) grp49       DMBOOL       (enum: 1)
(d) grp50       DMBOOL       (enum: 1)
(e) grp51       DMBOOL       (enum: 1)
(f) grp52       DMBOOL       (enum: 1)
(g) grp53       DMBOOL       (enum: 1)
(h) grp54       DMBOOL       (enum: 1)
(i) grp55       DMBOOL       (enum: 1)
(j) grp56       DMBOOL       (enum: 1)
(k) grp57       DMBOOL       (enum: 1)
(l) grp58       DMBOOL       (enum: 1)
(m) grp59       DMBOOL       (enum: 1)
(n) grp60       DMBOOL       (enum: 1)
(o) grp61       DMBOOL       (enum: 1)
(p) grp62       DMBOOL       (enum: 1)
(q) grp63       DMBOOL       (enum: 1)
```

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```
   |                           |   |     | |   |   |       |     | |
12 |         err_r_idx         |***|actvn|a| b |***|   c   |  d  |e|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
16 |f|g|h|i|j|k|l|m|n|o|p|q|r|s|t|u|v|w|x|y|z|A|B|C|D|E|F|G|H|I|J|K|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
20 |L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z|a|b|c|d|e|f|g|h|i|j|k|l|m|n|o|p|q|
   |---------------+---------------+---------------+---------------|
      ( 24 bytes )
```

| | | | |
|---|---|---|---|
| | err_dn | DMBCD_BDN | (array [ 6 ] of char ) |
| | acvt_gpid | DMFACID | (ushort) |
| | err_r_idx | DMRTEIDX | (ushort: 14) |
| | actvn | DMMC_ACTYP | (enum: 3) |
| (a) | amac | DMBOOL | (enum: 1) |
| (b) | dctvn | DMMC_DCTYP | (enum: 2) |
| (c) | acvt_res | DMAT_RES | (enum: 4) |
| (d) | err_treat | DMMC_ERTRT | (enum: 3) |
| (e) | controller | DMCNTRLR | (enum: 1) |
| (f) | grp00 | DMBOOL | (enum: 1) |
| (g) | grp01 | DMBOOL | (enum: 1) |
| (h) | grp02 | DMBOOL | (enum: 1) |
| (i) | grp03 | DMBOOL | (enum: 1) |
| (j) | grp04 | DMBOOL | (enum: 1) |
| (k) | grp05 | DMBOOL | (enum: 1) |
| (l) | grp06 | DMBOOL | (enum: 1) |
| (m) | grp07 | DMBOOL | (enum: 1) |
| (n) | grp08 | DMBOOL | (enum: 1) |
| (o) | grp09 | DMBOOL | (enum: 1) |
| (p) | grp10 | DMBOOL | (enum: 1) |
| (q) | grp11 | DMBOOL | (enum: 1) |
| (r) | grp12 | DMBOOL | (enum: 1) |
| (s) | grp13 | DMBOOL | (enum: 1) |
| (t) | grp14 | DMBOOL | (enum: 1) |
| (u) | grp15 | DMBOOL | (enum: 1) |
| (v) | grp16 | DMBOOL | (enum: 1) |
| (w) | grp17 | DMBOOL | (enum: 1) |
| (x) | grp18 | DMBOOL | (enum: 1) |
| (y) | grp19 | DMBOOL | (enum: 1) |
| (z) | grp20 | DMBOOL | (enum: 1) |
| (A) | grp21 | DMBOOL | (enum: 1) |
| (B) | grp22 | DMBOOL | (enum: 1) |
| (C) | grp23 | DMBOOL | (enum: 1) |
| (D) | grp24 | DMBOOL | (enum: 1) |
| (E) | grp25 | DMBOOL | (enum: 1) |
| (F) | grp26 | DMBOOL | (enum: 1) |
| (G) | grp27 | DMBOOL | (enum: 1) |
| (H) | grp28 | DMBOOL | (enum: 1) |
| (I) | grp29 | DMBOOL | (enum: 1) |
| (J) | grp30 | DMBOOL | (enum: 1) |
| (K) | grp31 | DMBOOL | (enum: 1) |
| (L) | grp32 | DMBOOL | (enum: 1) |
| (M) | grp33 | DMBOOL | (enum: 1) |

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```
 (N) grp34       DMBOOL       (enum: 1)
 (O) grp35       DMBOOL       (enum: 1)
 (P) grp36       DMBOOL       (enum: 1)
 (Q) grp37       DMBOOL       (enum: 1)
 (R) grp38       DMBOOL       (enum: 1)
 (S) grp39       DMBOOL       (enum: 1)
 (T) grp40       DMBOOL       (enum: 1)
 (U) grp41       DMBOOL       (enum: 1)
 (V) grp42       DMBOOL       (enum: 1)
 (W) grp43       DMBOOL       (enum: 1)
 (X) grp44       DMBOOL       (enum: 1)
 (Y) grp45       DMBOOL       (enum: 1)
 (Z) grp46       DMBOOL       (enum: 1)
 (a) grp47       DMBOOL       (enum: 1)
 (b) grp48       DMBOOL       (enum: 1)
 (c) grp49       DMBOOL       (enum: 1)
 (d) grp50       DMBOOL       (enum: 1)
 (e) grp51       DMBOOL       (enum: 1)
 (f) grp52       DMBOOL       (enum: 1)
 (g) grp53       DMBOOL       (enum: 1)
 (h) grp54       DMBOOL       (enum: 1)
 (i) grp55       DMBOOL       (enum: 1)
 (j) grp56       DMBOOL       (enum: 1)
 (k) grp57       DMBOOL       (enum: 1)
 (l) grp58       DMBOOL       (enum: 1)
 (m) grp59       DMBOOL       (enum: 1)
 (n) grp60       DMBOOL       (enum: 1)
 (o) grp61       DMBOOL       (enum: 1)
 (p) grp62       DMBOOL       (enum: 1)
 (q) grp63       DMBOOL       (enum: 1)

          Stored Tuple Layout      AT_OPTS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                             err_dn                            |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  4 |             err_dn            |           acvt_gpid           |
    |---------------+---------------+---------------+---------------|
    |                           |   |     | |   |   |       |     | |
  8 |         err_r_idx         |***|actvn|a| b |***|   c   |  d  |e|
    |---------------+---------------+---------------+---------------|
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 12 |f|g|h|i|j|k|l|m|n|o|p|q|r|s|t|u|v|w|x|y|z|A|B|C|D|E|F|G|H|I|J|K|
    |---------------+---------------+---------------+---------------|
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 16 |L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z|a|b|c|d|e|f|g|h|i|j|k|l|m|n|o|p|q|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )

domain alAT_OPT   struct  (11 sub-attributes)
           fid         .3.fake      (ushort: 10)
```

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```
          err_dn      .4.fake      (array [ 6 ] of char )
          acvt_gpid   unsigned short (ushort)
          err_r_idx   .5.fake      (ushort: 14)
          actvn       .1fake       (enum)
   (a)    amac        .0fake       (enum)
   (b)    dctvn       .2fake       (enum)
   (c)    acvt_res    .4fake       (enum)
   (d)    err_treat   .5fake       (enum)
   (e)    controller  .3fake       (enum)
          grp         .6.fake      (array [ 2 ] of long )

        Structure Layout      alAT_OPT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  0 |        fid        |*******************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             err_dn                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  8 |             err_dn            |            acvt_gpi           |
    |---------------+---------------+---------------+---------------|
    |                           |   |     | |   |   |       |     | |
 12 |          err_r_id         |***|actvn|a| b |***|   c   |  d  |e|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                             grp                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                             grp                               |
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population Rules for RLat_opts

**Relation Description:** Attendant control constructed feature options.

Defines the feature options for the attendant control constructed feature. The following is a list of valid service classes for ports assigned this feature:

```
LINES
-----
FC_INDVDL
FC_ISDN
FC_ISATND
FC_4WIRE_INDV
PRE-CONSTRUCTED FEATURES
/ACVTO  - Attendant Control of Voice Terminals Originating
/ACVTT  - Attendant Control of Voice Terminals Terminating
/AT*    - Attendant Control Wildcard
-------------------------------------------------------
|  ATTRIBUTE    |            PRECONSTRUCTED             |
```

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| FIELD | FEATURES | | |
|---|---|---|---|
| 1. FEATURE | /ACVTO | /ACVTT | /AT* |
| 2. REMARKS | ACVT ORIGINATING feature. | ACVT TERMINATING feature. | Attendant Control Wildcard |
| | FEATURE OPTIONS | | |
| 3. CONTROL | ORIG | TERM | TERM |
| 4. AMAC | FLAT | FLAT | FLAT |
| 5. ACTYP | NONE | NONE | NONE |
| 6. DACTYP | NONE | NONE | NONE |
| DEFAULT PARAMETERS | | | |
| 7. ACVT GRP | BLANK | BLANK | BLANK |
| 8. RESTRICT | NONE | NONE | NONE |
| 9. ERR TYPE | TONE | TONE | TONE |
| 10. RTE IDX | BLANK | BLANK | BLANK |
| 11. ERR TN | BLANK | BLANK | BLANK |
| 12. ROW (1-63) | N | N | N |

The AMAC attribute is locked to DBNO, all other attributes are open.

**Attribute: fid**

**Fullname:** Feature ID

**Attribute Description:** Attendant Control constructed feature ID.

**Attribute: actvn**

**Fullname:** Activation Type

**Attribute Description:** Indicates method of activating MCC features. The two attributes (actions), activation and deactivation, together determine the customer options for the feature. The allowed options are as shown in the following layout:

| Combination Act/Deact | Activation | Deactivation |
|---|---|---|
| 1. Always active | ACTNONE | DCTNONE |
| 2. Customer selected activation/deactivation | ACTCD | DCTCD |
| 3. Customer selected activation/deactivation | ACTCD | DCTAUTO |

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```
   for one call only
The combination of activation=ACTCD and deactivation=
DCTAUTO is never assigned to a line with class of
service = FC_ISATND or FC_ISDN.
```

**Attribute: dctvn**

**Fullname:** De-activation Type

**Attribute Description:** Indicates method of activating MCC features. The two attributes (actions), activation and deactivation, together determine the customer options for the feature. The allowed options are as shown in the following layout:

```
Combination Act/Deact       Activation  Deactivation
 1. Always active            ACTNONE     DCTNONE
 2. Customer selected        ACTCD       DCTCD
    activation/deactivation
 3. Customer selected        ACTCD       DCTAUTO
    activation/deactivation
    for one call only
```

The combination of activation=ACTCD and deactivation= DCTAUTO is never assigned to a line with class of service = FC_ISATND or FC_ISDN

**Attribute: acvt_res**

**Fullname:** Attendant Control of Voice Terminal Restriction

**Attribute Description:** Condition under which calls are restricted. If a Direct Connect restriction level is being used, (ODCTRES or ODCTNRES) make sure the Secured Feature SFID012 has been purchased, the error type is RERTE and an Error DN is populated.

**Attribute: amac**

**Fullname:** AMA Billing Type

**Attribute Description:** AMA billing option.

**Attribute: controller**

**Fullname:** Controller of Restriction Feature

**Attribute Description:** Feature user - orig/term.

**Attribute: err_treat**

**Fullname:** Error Treatment Type

**Attribute Description:** Type of error treatment to be applied to restricted calls.

**Attribute: err_r_idx**

**Fullname:** Error Announcement Route Index

**Attribute Description:** Route Index to route restricted calls to. This is populated only if err_treat is ER_ANNC.

**Attribute: err_dn**

**Fullname:** Error DN

**Attribute Description:** DN to route restricted calls to (Can be up to 10 digits). This is populated only if err_treat is ER_RERTE. Default: No error DN, then 'no. dig.' = 0, and the digits will be set to

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null and the number of digits to zero. The error DN is a number of up to 10 digits ( no. digits = (1 <= no. digits <= 10)). Number of digits = 0 means no error DN is present. The digits are stored in BCD, two per character (byte). The domain used for err_dn has five characters for the ten digits plus one character for the number of digits (number of digits character is required by the I/O type). If the number of digits is < 10, the null character (which becomes same as digit 0 in BCD) is used to fill the remaining digits. The number of digits character always contains the number of digits. The digits are stored in the attribute starting with D1.

Layout follows:

```
| byte 0  | byte 1  | byte 2  | byte 3  | byte 4  | byte 5 |
-----------------------------------------------------------
|    |    |    |    |    |    |    |    |    |    |        |
| D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | D9 |D10 |no. dig.|
|    |    |    |    |    |    |    |    |    |    |        |
-----------------------------------------------------------
```

**Attribute: acvt_gpid**

**Fullname:** ACVT Group ID

**Attribute Description:** ACVT group ID for this ISAT group and restriction group.

**Attribute: grp00**

**Fullname:** ACVT GROUP

**Attribute Description:** grp00 Always DBNO. Used for ease of coding.

**Attribute: grp[*]**

**Fullname:** ACVT GROUP

**Attribute Description:**

```
grp01   Boolean indicating whether this ISDN attendant
thru    can control ACVT group XX.
grp63   XX ranges from 01 through 63.
```

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# AT_PORT

## 1. Description

Defines the per port data associated with the attendant control constructed feature relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected number of tuples | 16 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 11 |
| l1 length of subkey 1 | 2 |
| p1 position of subkey 1 | 16 |
| l2 length of subkey 2 | 16 |
| p2 position of subkey 2 | 0 |
| ks Key Store | AUTO |
| corcable | DBYES |

## 3. Field Layout

```
AT_PORT     relid = 1045  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL

     lport       DMLPORT      (ushort: 16)     <--- key, not stored
 (a) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key, not stored
     err_dn      DMBCD_BDN    (array [ 6 ] of char )
     acvt_gpid   DMFACID      (ushort)
     err_r_idx   DMRTEIDX     (ushort: 12)
 (b) acvt_res    DMAT_RES     (enum: 4)
 (c) err_treat   DMMC_ERTRT   (enum: 3)

         User and Compacted Tuple Layout    AT_PORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |   |                         |
  0 |              lport              | a |*************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                              err_dn                           |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                 |                             |
  8 |              err_dn             |            acvt_gpid        |
    |---------------+---------------+---------------+---------------|
    |                          |      |     |                       |
 12 |       err_r_idx          |  b   |  c  |***********************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )

     err_dn      DMBCD_BDN    (array [ 6 ] of char )
     acvt_gpid   DMFACID      (ushort)
     err_r_idx   DMRTEIDX     (ushort: 12)
 (a) acvt_res    DMAT_RES     (enum: 4)
 (b) err_treat   DMMC_ERTRT   (enum: 3)
```

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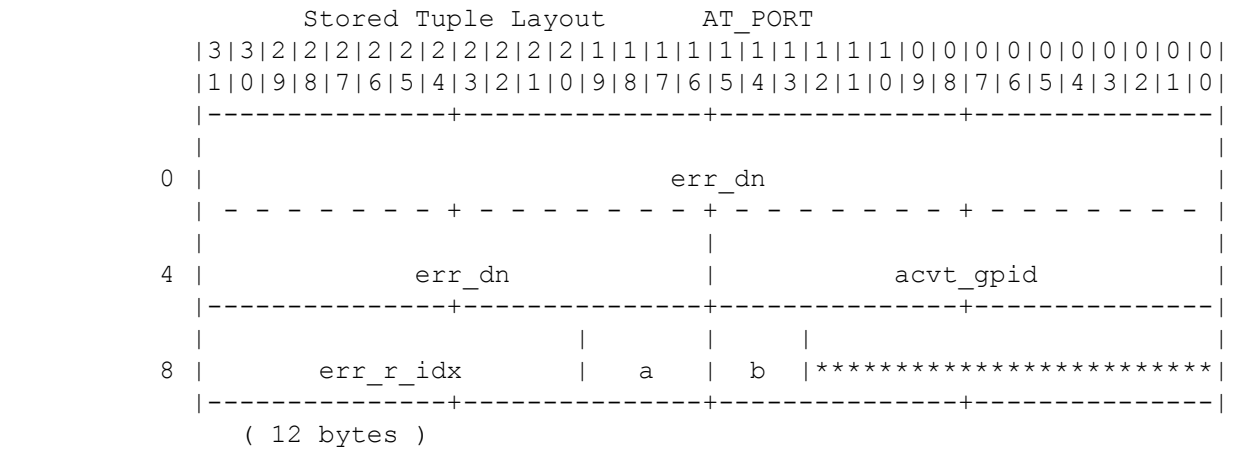


## 4. Population Rules for RLat_port

**Relation Description:** Attendant control feature port.

Defines the per port data associated with the Attendant Control Constructed Feature Relation The following is a list of valid service classes for ports assigned this feature:

```
LINES
-----
FC_INDVDL
FC_ISDN
FC_4WIRE_INDV
SPECIAL ENTRY FOR BFG
---------------------
```

For BFG purposes, 'ACTR' feature parameter type is 'LINE'. Therefore, BFG lport tuples will not be created for the lport assigned to a BFG. Only individual lport tuples are created for BFG assigned lports.

**Attribute: lport**

**Fullname:** logical port of the user

**Attribute Description:**

```
Verify existence of tuple in RLfc_line
where RLfc_line.lport = RLat_port.lport AND
   RLfc_line.lpt_type = RLat_port.lpt_type.
The keys for RLfc_line are:
   RLfc_line.port = RLlpt_pt
                    (RLat_port.lport,RLat_port.lpt_type).port.member
   RLfc_line.party =
                   RLlpt_pt(RLt_port.lport,RLat_port.lpt_type).party
Also
   RLfc_porttyp(RLlpt_pt(lport, lpt_type).port).servclass
   must equal FC_INDVDL OR FC_ISDN OR FC_4WIRE_INDV.
```

Also, verify existence of tuple in RLtrmfeats where RLtrmfeats is keyed by lport and lpt_type and there is an ftent attribute that has a fid with a modular feature type of MFACTR.

**Attribute: lpt_type**

**Fullname:** logical port type of the user

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**Attribute Description:** This attribute indicates the type of lport that the tuple belongs to

**Attribute: acvt_res**

**Fullname:** condition under which calls are restricted

**Attribute Description:** If acvt_gpid != 0, then acvt_res must be DM_NO_ACVT. If the acvt_res is a Direct Connect restriction level (ODCTRES, ODCTNRES), make sure that the Secured Feature ID 12 (SFID012) has been purchased, the line is non-shared analog, and that it has err_treat set to ER_RERTE and an Error DN specified.

**Attribute: err_treat**

**Fullname:** error treatment type

**Attribute Description:** The type of treatment to be applied to restricted calls.

**Attribute: acvt_gpid**

**Fullname:** ACVT group ID for this ISAT group and restriction group

**Attribute Description:**

```
If 'acvt_gpid' > 0,
    then verify that RLfacname has a tuple such that
acvt_gpid = RLfacname.facid
RLfacname.class = FACACTR
RLfacname.subclass = SCL_NULL
```

**Attribute: err_r_idx**

**Fullname:** route index to route restricted calls to

**Attribute Description:**

```
If 'err_r_idx' > 0, then there must be a tuple in RLrt_routing
keyed with this err_r_idx and RLrt_routing.route_type = RTE_HUNT.
If 'err_r_idx' is not 0, then the digit count for 'err_dn' must be 0.
```

**Attribute: err_dn**

**Fullname:** DN to route restricted calls to

**Attribute Description:** This is populated only if err_treat is ER_RERTE. No error DN, then 'no. dig.' = 0, and the digits will be set to null and the number of digits to zero. The error DN is a number of up to 10 digits ( no. digits = (1 <= no. digits <= 10)). Number of digits = 0 means no error DN is present. The digits are stored in BCD, two per character (byte). The domain used for err_dn has five characters for the ten digits plus one character for the number of digits (number of digits character is required by the I/O type). If the number of digits is < 10, the null character (which becomes same as digit 0 in BCD) is used to fill the remaining digits. The number of digits character always contains the number of digits. The digits are stored in the attribute starting with D1.

Layout follows:

```
byte 0  | byte 1  | byte 2  | byte 3  | byte 4  | byte 5 |
-------------------------------------------------------
|    |    |    |    |    |    |    |    |    |        |
D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | D9 |D10 |no. dig.|
|    |    |    |    |    |    |    |    |    |        |
-------------------------------------------------------
```

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If the no.dig. for 'err_dn' is not 0, then 'err_r_idx' must be 0.

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# AT_PRTGP

## 1. Description

Defines whether a given attendant can change the group restrictions for a given group Attendant Control Constructed Feature Relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| expected number of tuples | 7 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | DBNO |
| permutation type | unperm |

## 3. Field Layout

```
AT_PRTGP    relid = 1047  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL

     latidx      DMLATIDX     (ushort: 5)     <--- key, not stored
 (a) grp00       DMBOOL       (enum: 1)
 (b) grp01       DMBOOL       (enum: 1)
 (c) grp02       DMBOOL       (enum: 1)
 (d) grp03       DMBOOL       (enum: 1)
 (e) grp04       DMBOOL       (enum: 1)
 (f) grp05       DMBOOL       (enum: 1)
 (g) grp06       DMBOOL       (enum: 1)
 (h) grp07       DMBOOL       (enum: 1)
 (i) grp08       DMBOOL       (enum: 1)
 (j) grp09       DMBOOL       (enum: 1)
 (k) grp10       DMBOOL       (enum: 1)
 (l) grp11       DMBOOL       (enum: 1)
 (m) grp12       DMBOOL       (enum: 1)
 (n) grp13       DMBOOL       (enum: 1)
 (o) grp14       DMBOOL       (enum: 1)
 (p) grp15       DMBOOL       (enum: 1)
 (q) grp16       DMBOOL       (enum: 1)
 (r) grp17       DMBOOL       (enum: 1)
 (s) grp18       DMBOOL       (enum: 1)
 (t) grp19       DMBOOL       (enum: 1)
 (u) grp20       DMBOOL       (enum: 1)
 (v) grp21       DMBOOL       (enum: 1)
 (w) grp22       DMBOOL       (enum: 1)
 (x) grp23       DMBOOL       (enum: 1)
 (y) grp24       DMBOOL       (enum: 1)
 (z) grp25       DMBOOL       (enum: 1)
 (A) grp26       DMBOOL       (enum: 1)
 (B) grp27       DMBOOL       (enum: 1)
 (C) grp28       DMBOOL       (enum: 1)
 (D) grp29       DMBOOL       (enum: 1)
 (E) grp30       DMBOOL       (enum: 1)
 (F) grp31       DMBOOL       (enum: 1)
 (G) grp32       DMBOOL       (enum: 1)
```

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```
(H) grp33       DMBOOL       (enum: 1)
(I) grp34       DMBOOL       (enum: 1)
(J) grp35       DMBOOL       (enum: 1)
(K) grp36       DMBOOL       (enum: 1)
(L) grp37       DMBOOL       (enum: 1)
(M) grp38       DMBOOL       (enum: 1)
(N) grp39       DMBOOL       (enum: 1)
(O) grp40       DMBOOL       (enum: 1)
(P) grp41       DMBOOL       (enum: 1)
(Q) grp42       DMBOOL       (enum: 1)
(R) grp43       DMBOOL       (enum: 1)
(S) grp44       DMBOOL       (enum: 1)
(T) grp45       DMBOOL       (enum: 1)
(U) grp46       DMBOOL       (enum: 1)
(V) grp47       DMBOOL       (enum: 1)
(W) grp48       DMBOOL       (enum: 1)
(X) grp49       DMBOOL       (enum: 1)
(Y) grp50       DMBOOL       (enum: 1)
(Z) grp51       DMBOOL       (enum: 1)
(a) grp52       DMBOOL       (enum: 1)
(b) grp53       DMBOOL       (enum: 1)
(c) grp54       DMBOOL       (enum: 1)
(d) grp55       DMBOOL       (enum: 1)
(e) grp56       DMBOOL       (enum: 1)
(f) grp57       DMBOOL       (enum: 1)
(g) grp58       DMBOOL       (enum: 1)
(h) grp59       DMBOOL       (enum: 1)
(i) grp60       DMBOOL       (enum: 1)
(j) grp61       DMBOOL       (enum: 1)
(k) grp62       DMBOOL       (enum: 1)
(l) grp63       DMBOOL       (enum: 1)

        User and Compacted Tuple Layout   AT_PRTGP
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |          |                                                    |
 0 |  latidx |****************************************************|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 4 |a|b|c|d|e|f|g|h|i|j|k|l|m|n|o|p|q|r|s|t|u|v|w|x|y|z|A|B|C|D|E|F|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 8 |G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z|a|b|c|d|e|f|g|h|i|j|k|l|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )

(a) grp00       DMBOOL       (enum: 1)
(b) grp01       DMBOOL       (enum: 1)
(c) grp02       DMBOOL       (enum: 1)
(d) grp03       DMBOOL       (enum: 1)
(e) grp04       DMBOOL       (enum: 1)
(f) grp05       DMBOOL       (enum: 1)
(g) grp06       DMBOOL       (enum: 1)
```

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```
(h) grp07       DMBOOL       (enum: 1)
(i) grp08       DMBOOL       (enum: 1)
(j) grp09       DMBOOL       (enum: 1)
(k) grp10       DMBOOL       (enum: 1)
(l) grp11       DMBOOL       (enum: 1)
(m) grp12       DMBOOL       (enum: 1)
(n) grp13       DMBOOL       (enum: 1)
(o) grp14       DMBOOL       (enum: 1)
(p) grp15       DMBOOL       (enum: 1)
(q) grp16       DMBOOL       (enum: 1)
(r) grp17       DMBOOL       (enum: 1)
(s) grp18       DMBOOL       (enum: 1)
(t) grp19       DMBOOL       (enum: 1)
(u) grp20       DMBOOL       (enum: 1)
(v) grp21       DMBOOL       (enum: 1)
(w) grp22       DMBOOL       (enum: 1)
(x) grp23       DMBOOL       (enum: 1)
(y) grp24       DMBOOL       (enum: 1)
(z) grp25       DMBOOL       (enum: 1)
(A) grp26       DMBOOL       (enum: 1)
(B) grp27       DMBOOL       (enum: 1)
(C) grp28       DMBOOL       (enum: 1)
(D) grp29       DMBOOL       (enum: 1)
(E) grp30       DMBOOL       (enum: 1)
(F) grp31       DMBOOL       (enum: 1)
(G) grp32       DMBOOL       (enum: 1)
(H) grp33       DMBOOL       (enum: 1)
(I) grp34       DMBOOL       (enum: 1)
(J) grp35       DMBOOL       (enum: 1)
(K) grp36       DMBOOL       (enum: 1)
(L) grp37       DMBOOL       (enum: 1)
(M) grp38       DMBOOL       (enum: 1)
(N) grp39       DMBOOL       (enum: 1)
(O) grp40       DMBOOL       (enum: 1)
(P) grp41       DMBOOL       (enum: 1)
(Q) grp42       DMBOOL       (enum: 1)
(R) grp43       DMBOOL       (enum: 1)
(S) grp44       DMBOOL       (enum: 1)
(T) grp45       DMBOOL       (enum: 1)
(U) grp46       DMBOOL       (enum: 1)
(V) grp47       DMBOOL       (enum: 1)
(W) grp48       DMBOOL       (enum: 1)
(X) grp49       DMBOOL       (enum: 1)
(Y) grp50       DMBOOL       (enum: 1)
(Z) grp51       DMBOOL       (enum: 1)
(a) grp52       DMBOOL       (enum: 1)
(b) grp53       DMBOOL       (enum: 1)
(c) grp54       DMBOOL       (enum: 1)
(d) grp55       DMBOOL       (enum: 1)
(e) grp56       DMBOOL       (enum: 1)
(f) grp57       DMBOOL       (enum: 1)
(g) grp58       DMBOOL       (enum: 1)
(h) grp59       DMBOOL       (enum: 1)
(i) grp60       DMBOOL       (enum: 1)
```

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```
 (j) grp61       DMBOOL       (enum: 1)
 (k) grp62       DMBOOL       (enum: 1)
 (l) grp63       DMBOOL       (enum: 1)

           Stored Tuple Layout     AT_PRTGP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
  0 |a|b|c|d|e|f|g|h|i|j|k|l|m|n|o|p|q|r|s|t|u|v|w|x|y|z|A|B|C|D|E|F|
    |---------------+---------------+---------------+---------------|
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
  4 |G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z|a|b|c|d|e|f|g|h|i|j|k|l|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )

RLat_prtgp.G
domain alAT_PRT   struct  (2 sub-attributes)
         latidx      .1.fake      (ushort: 5)
         grp         .2.fake      (array [ 2 ] of long )

         Structure Layout      alAT_PRT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |         |                                                     |
  0 |  latidx |*****************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                               grp                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                               grp                             |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLat_prtgp

**Relation Description:** ISDN attendant port groups.

Defines whether a given attendant can change the group restrictions for a given group Attendant Control Constructed Feature Relation. The following is a list of valid service classes for ports assigned this feature:

```
LINES
-----
FC_ISATND
```

**Attribute: latidx**

**Fullname:** logical ISDN attendant terminal index

**Attribute Description:** Logical ISDN attendant terminal index. Sequentially assigned number used to cause a dense packing of ISDN attendant keyed relations. The next available latidx is in the relation RLrc_lahol if there are unused latidx or in RLrc_qidx for the next available if there are no holes.

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**Attribute: grp00**

**Fullname:** group number

**Attribute Description:** grp00 is always DBNO used for ease of coding, not a group.

**Attribute: grp[*]**

**Fullname:** group number

**Attribute Description:** Boolean indicating whether this ISDN attendant can control ACVT group XX. XX ranges from 01 through 63.

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# ATCNTMSK

## 1. Description

Attendant Control mask (ATCNTMSK).

This mask is used to mask out the DNs that should not be verified by the Attendant group. This mask is used by the busy verify, emergency override and attendant control of voice terminals features. This relation replaces RLbv_mask.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2048 |
| expected tuples in relation | 50 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | un_perm |
| storage type | DBORIGLEN |
| foldtype | DBDEFAULT |

## 3. Field Layout

```
ATCNTMSK    relid = 1224  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL

     hgid        DMHGID       (ulong: 22)     <--- key
     grpnum      DMGRUPNM     (ushort: 13)     <--- key
     dnmsk1      DMDNSTAT     (uchar)
     dnmsk2      DMDNSTAT     (uchar)
     dnmsk3      DMDNSTAT     (uchar)
     dnmsk4      DMDNSTAT     (uchar)
     dnmsk5      DMDNSTAT     (uchar)
     dnmsk6      DMDNSTAT     (uchar)
     dnmsk7      DMDNSTAT     (uchar)
     dnmsk8      DMDNSTAT     (uchar)
     dnmsk9      DMDNSTAT     (uchar)
     dnmsk10     DMDNSTAT     (uchar)
     dnmsk11     DMDNSTAT     (uchar)
     dnmsk12     DMDNSTAT     (uchar)
     dnmsk13     DMDNSTAT     (uchar)

         User, Compacted and Stored Tuple Layout   ATCNTMSK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |                |
  0 |                     hgid                      |****************|
    |---------------+---------------+---------------+---------------|
    |                           |     |               |               |
  4 |           grpnum          |*****|     dnmsk1    |     dnmsk2    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  8 |     dnmsk3    |     dnmsk4    |     dnmsk5    |     dnmsk6    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
```

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```
 12 |     dnmsk7    |     dnmsk8    |     dnmsk9    |    dnmsk10    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 16 |    dnmsk11    |    dnmsk12    |    dnmsk13    |***************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )

domain alATCNTM   struct  (3 sub-attributes)

            hgid        .2.fake      (ulong: 22)
            grpnum      .3.fake      (ushort: 13)
            dnmask      .4.fake      (array [ 13 ] of unsigned char )

         Structure Layout      alATCNTM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                             |               |
  0 |                    hgid                     |***************|
    |---------------+---------------+---------------+---------------|
    |                           |     |                             |
  4 |          grpnum           |*****|             dnmask          |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
  8 |                             dnmask                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 12 |                             dnmask                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                     |         |
 16 |                      dnmask                         |*********|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population Rules for RLatcntmsk

**Relation Description**

Attendant Control Mask

There will be one tuple in this relation for each 100s group that needs to be controlled by an attendant group. The mask is used to mask out DNs within this 100s group that should not be controlled by the designated attendant group. This verification is for the following Attendant features:

(1) Busy Lamp Field (For ISDN Attendants)

(2) Busy Verify

(3) Emergency Override

(4) Attendant Control of Voice Terminals (ACVT)

(5) Attendant Call Forwarding features

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**Attribute: hgid**

**Fullname:** Hundreds Group Identifier

**Attribute Description:** Contains the noc, thousand weighted digit, and hundred weighted digit. Used as a key to find the correct RLtree_blf tuple. hundred group identifier (hgid) has three sub-fields:

```
noc     Normalized Office Code
        Range: 1 - AVNOCMAX()
        Default: none
d4      Thousand weighted digit
        Range: 0 - 9
        Default: none
d3      Hundred weighted digit
        Range: 0 - 9
        Default: none
```

***NOTE:*** The following example explains how the 'hgid' value is derived.

```
For the DN# 220-4321:
Read RLnoccode to convert nxx to noc;
For RLnoccode.nxx equal to 220 (Office Code)
RLnoccode.noc equals 118 (Normalized Office Code)
        118 = noc
          4 = digit4 (d4)
          3 = digit3 (d3)
          2 = digit2 (d2)
          1 = digit1 (d1)
The 'noc', 'd4', and 'd3' will be used to determine
the 'hgid' value.
        noc = 118(0x76)
        shift 2 left          = 0x7600
        d4 = 4  (0x04)
        shift 1 left          = 0x0040
        d3 = 3  (0x03)          = 0x0003
        hgid = 0x7600 + 0x0040 + 0x0003
                                = 0x7643
```

**Attribute: grpnum**

**Fullname:** Group Number

**Attribute Description:** Contains the group number of the attendant Multi-Line Hunt Group.

**Attribute: dnmsk[*]**

**Fullname:** Mask of DNs

**Attribute Description:** Mask of 100 bits which is used to determine which DNs can be controlled by an attendant group.

dnmsk1 first byte (8 bits) of 100s group mask each bit that equals '0' denotes DN not associated with attendant MLHG, and each bit that equals '1' denotes DN is associated with an attendant MLHG.

```
Hundred digit number 1st byte
 07 06 05 04 03 02 01 00
```

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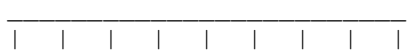
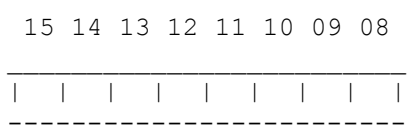
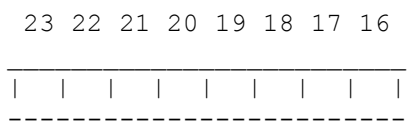


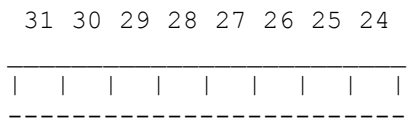
dnmsk2 Hundred digit number 2nd byte



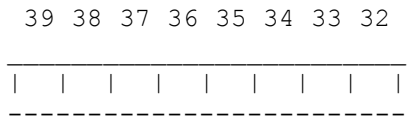

dnmsk3 Hundred digit number 3rd byte



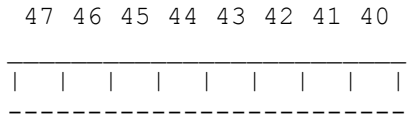

dnmsk4 Hundred digit number 4th byte



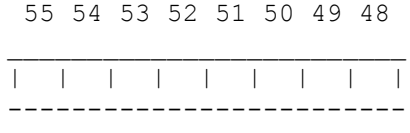

dnmsk5 Hundred digit number 5th byte



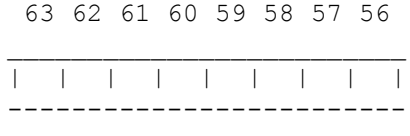

dnmsk6 Hundred digit number 6th byte



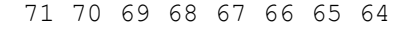

dnmsk7 Hundred digit number 7th byte




dnmsk8 Hundred digit number 8th byte




dnmsk9 Hundred digit number 9th byte

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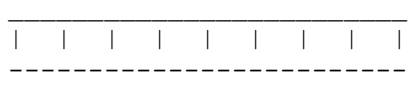
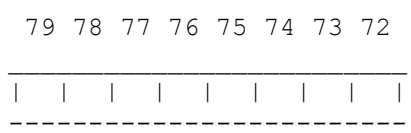
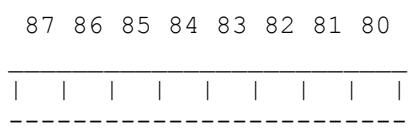


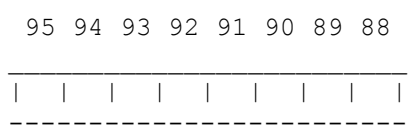
dnmsk10 Hundred digit number 10th byte



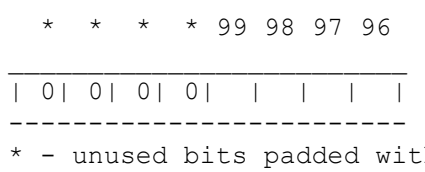

dnmsk11 Hundred digit number 11th byte




dnmsk12 Hundred digit number 12th byte




dnmsk13 Hundred digit number 13th byte




Each bit with '0' indicates that the DN is NOT a member of the set of DNs that this given attendant group (based on this group's number) can control. Each bit with '1' indicates that the DN is a member of the set of DNs that this given attendant group (based on this group's number) can control.

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# ATH_CF

## 1. Description

Authorization (ATH) code constructed feature options.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |

## 3. Field Layout

```
ATH_CF      relid = 765   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL

     ath_fid     DMMCC_FID    (ushort)     <--- key
 (a) ath_prompt  DMMC_TONE    (enum: 3)
     actvn       DMMC_ACTYP   (enum: 3)
 (b) dctvn       DMMC_DCTYP   (enum: 2)
 (c) ama_field   DMACCT_FLD   (enum: 2)
 (d) ama_override  DMBOOL       (enum: 1)
 (e) chg_ma      DMBOOL       (enum: 1)
 (f) chg_acf     DMBOOL       (enum: 1)
     amac        DMMC_BILL    (struct)
 (g)     flat        DMBOOL       (enum: 1)
 (h)     usefreq1    DMBOOL       (enum: 1)
 (i)     usefreq2    DMBOOL       (enum: 1)
 (j)     usefreq3    DMBOOL       (enum: 1)
 (k)     usefreq4    DMBOOL       (enum: 1)
 (l)     actchrg     DMBOOL       (enum: 1)
 (m)     dactchrg    DMBOOL       (enum: 1)
 (n)     duration    DMBOOL       (enum: 1)
 (o)     change      DMBOOL       (enum: 1)

        User, Compacted and Stored Tuple Layout ATH_CF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |     |     |   |   | | | |     |
 0 |            ath_fid            |  a  |actvn| b | c |d|e|f|*****|
   |===============+============  amac ============+===============|
   | | | | | | | | |                                               |
 4 |g|h|i|j|k|l|m|n|o|***********************************************|
   |===============+===============+===============+===============|
      ( 8 bytes )
```

## 4. Population Rules for RLath_cf

**Relation Description:** Authorization codes constructed feature parameters.

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Authorization (ATH) code constructed feature parameters. The key to this relation is a 16 bit key. The range of the key is from 4801 (hex) to 4bff (hex) and will be assigned sequentially. The leftmost bit will not be used. Therefore, this relation is engineered for a 15 bit key.

**Attribute: ath_fid**

**Fullname:** ATH constructed feature identifier

**Attribute Description:** Authorization code constructed feature identifier.

**Attribute: amac**

**Fullname:** AMA charging

**Attribute Description:** Boolean structure indicating the combination of AMA charging. In each case a DBYES indicates the type of billing that is applicable and DBNO indicates it is not.

**Attribute: amac.flat**

**Fullname:** flat rate

**Attribute Description:** flat rate - no usage sensitive charge.

**Attribute: amac.usefreq1**

**Fullname:** usage frequency charge 1

**Attribute Description:** Usage frequency charge - for use of 'event' 1.

**Attribute: amac.usefreq2**

**Fullname:** usage frequency charge 2

**Attribute Description:** Usage frequency charge - for use of 'event' 2.

**Attribute: amac.usefreq3**

**Fullname:** usage frequency charge 3

**Attribute Description:** Usage frequency charge - for use of 'event' 3.

**Attribute: amac.usefreq4**

**Fullname:** usage frequency charge 4

**Attribute Description:** Usage frequency charge - for use of 'event' 4.

**Attribute: amac.actchrg**

**Fullname:** activation charge

**Attribute Description:** Usage charge for activation.

**Attribute: amac.dactchrg**

**Fullname:** deactivation charge

**Attribute Description:** Usage charge for deactivation.

**Attribute: amac.duration**

**Fullname:** duration charge

**Attribute Description:** Usage charge for duration of use.

**Attribute: amac.change**

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**Fullname:** change charge

**Attribute Description:** Usage charge for change of parameter.

**Attribute: ath_prompt**

**Fullname:** ATH prompt

**Attribute Description:** Type of prompt given to the user indicating the authorization code should be entered.

**Attribute: actvn**

**Fullname:** feature activation

**Attribute Description:** Method of activating a constructed feature.

**Attribute: dctvn**

**Fullname:** feature deactivation

**Attribute Description:** Method of deactivating a constructed feature.

**Attribute: ama_override**

**Fullname:** AMA override

**Attribute Description:** Indicate if the account code field in the AMA record can be overridden by the authorization code.

**Attribute: ama_field**

**Fullname:** AMA field

**Attribute Description:** Indicates whether the feature produces an AMA record with an 8-digit authorization code field or a 15-character authorization code field.

**Attribute: chg_ma**

**Fullname:** change ma_toggle

**Attribute Description:** Indicate if the customer can change the ma_toggle field in the RLath_grp relation via dialed code.

**Attribute: chg_acf**

**Fullname:** change ath_first

**Attribute Description:** Indicate if the customer can change the ath_first field in the RLath_grp relation via dialed code.

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# ATH_CODE

## 1. Description

Relation for authorization code(s) for a given authorization code group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 113000 |
| access type | DBACC_HASH |
| memory type | DBDISK |
| distribution | DO |
| application | AUTH |
| relation type | DBSTATIC |
| head table size | 8192 |
| data page size | 2048 |
| foldtype | DBGC31 |
| linear | DBNO |
| trigger function | RTath_dtrg |
| insert trigger | DBNO |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
ATH_CODE    relid = 776   DBSTATIC   DBACC_HASH  DBDISK   DO    DDBM

     athgpid     DMFACID      (ushort)     <--- key
     ath_code    DMATHCODE    (array [ 15 ] of char )     <--- key
     mfcos       DMUNS6       (ushort: 6)
     afcos       DMUNS6       (ushort: 6)

         User, Compacted and Stored Tuple Layout   ATH_CODE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            athgpid            |            ath_code           |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                           ath_code                            |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                           ath_code                            |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                           ath_code                            |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |               |           |   |           |                   |
 16 |    ath_code   |   mfcos   |***|   afcos   |*******************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population Rules for RLath_code

**Relation Description:** Authorization code (ATH).

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Relation for authorization code(s) for a given authorization code group.

***NOTE:*** RLath_code.G will not be able to support both FTS2000 and custom network offices (CNO) at the current 113,000 TMAX.

ODA SUPPORT RULES:

In order to meet the needs of the 12 offices listed here, office data administration (ODA) will engineer the TMAX of RLath_code.G to 250,000.

| BASE & OFFICE NAME | CONTROL |
|---|---|
| Atlanta, GA | 3585d0 |
| Dallas, TX | 8363d0 |
| New York, NY | 9084d0 |
| Washington 3, DC | OR40d0 |
| Chicago, IL | 4E25d0 |
| Los Angeles, CA | 4X81d0 |
| Philadelphia, PA | 1R73d1 |
| Rochester, NY | 4J55d0 |
| Oakland, CA | 4X52d0 |
| St Paul, MN | AAA7d0 |
| Pittsburgh, PA | 1R45d0 |
| White Plains, NY | 8987d0 |

RC SUPPORT RULES:

Recent change/verify (RCV) will check the number of 'athcodes' in an office. This will be done by checking the incremental/decremental counter in relation against the value of global parameter Glathct.

**Attribute: ath_code**

**Fullname:** Authorization code

**Attribute Description:** A 15 digit authorization code.

**Attribute: athgpid**

**Fullname:** ATH group identifier

**Attribute Description:** Authorization code group identifier.

**Attribute: mfcos**

**Fullname:** Main feature class of service

**Attribute Description:** Main feature class of service for this authorization code.

**Attribute: afcos**

**Fullname:** Alternate feature class of service

**Attribute Description:** Alternate feature class of service for this authorization.

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# ATH_FCOS

## 1. Description

Authorization code feature class of service (FCOS).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 800 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 2048 |
| page level | 0 |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
ATH_FCOS   relid = 777   DBSTATIC  DBACC_HASH  DBPRAM   LPFG   RCMAP

     athgpid     DMFACID      (ushort)     <--- key
     fcos        DMARNFRL     (ushort: 5)     <--- key
     frl         DMUNS5       (ushort: 5)
     dpat        DMUNS6       (ushort: 6)
 (a) st_rstrct   DMTG_SRTYP   (enum: 3)
     toll_si     DMSCRNIDX    (ushort: 12)
 (b) dpat_override  DMBOOL       (enum: 1)
 (c) ama         DMBOOL       (enum: 1)
 (d) mdr         DMBOOL       (enum: 1)
     feat1       DMFACID      (ushort)
     feat2       DMFACID      (ushort)
     feat3       DMFACID      (ushort)
     feat4       DMFACID      (ushort)
     feat5       DMFACID      (ushort)
     feat6       DMFACID      (ushort)
     feat7       DMFACID      (ushort)
     feat8       DMFACID      (ushort)
     feat9       DMFACID      (ushort)
     feat10      DMFACID      (ushort)
     feat11      DMFACID      (ushort)
     feat12      DMFACID      (ushort)
     feat13      DMFACID      (ushort)
     feat14      DMFACID      (ushort)
     feat15      DMFACID      (ushort)
     feat16      DMFACID      (ushort)
     feat17      DMFACID      (ushort)
     feat18      DMFACID      (ushort)
     feat19      DMFACID      (ushort)
     feat20      DMFACID      (ushort)
     feat21      DMFACID      (ushort)
     feat22      DMFACID      (ushort)
     feat23      DMFACID      (ushort)
```

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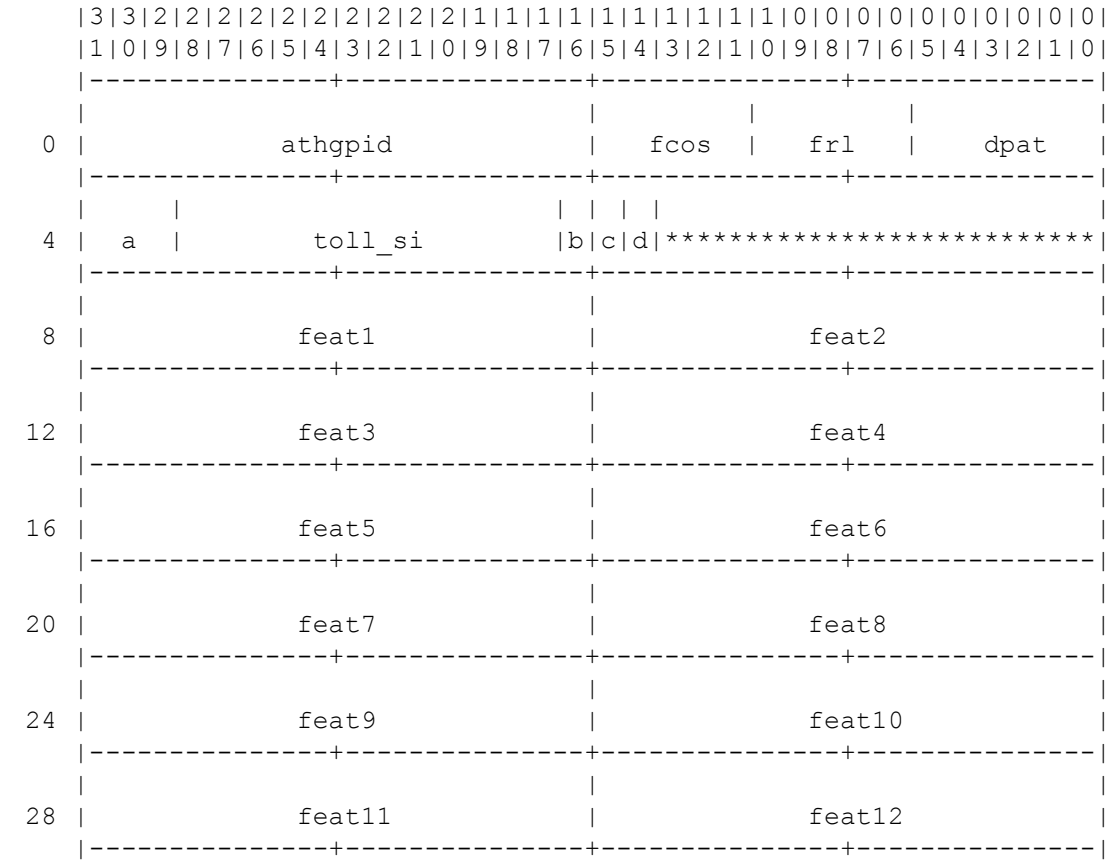
```
    feat24      DMFACID      (ushort)
    feat25      DMFACID      (ushort)
    feat26      DMFACID      (ushort)
    feat27      DMFACID      (ushort)
    feat28      DMFACID      (ushort)
    feat29      DMFACID      (ushort)
    feat30      DMFACID      (ushort)
    feat31      DMFACID      (ushort)
    feat32      DMFACID      (ushort)
    feat33      DMFACID      (ushort)
    feat34      DMFACID      (ushort)
    feat35      DMFACID      (ushort)
    feat36      DMFACID      (ushort)
    feat37      DMFACID      (ushort)
    feat38      DMFACID      (ushort)
    feat39      DMFACID      (ushort)
    feat40      DMFACID      (ushort)
    feat41      DMFACID      (ushort)
    feat42      DMFACID      (ushort)
    feat43      DMFACID      (ushort)
    feat44      DMFACID      (ushort)
    feat45      DMFACID      (ushort)
    feat46      DMFACID      (ushort)
    feat47      DMFACID      (ushort)
    feat48      DMFACID      (ushort)
```

User, Compacted and Stored Tuple Layout ATH_FCOS

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| | | |
|---|---|---|
| | | |
| 32 | feat13 | feat14 |
| | | |
| 36 | feat15 | feat16 |
| | | |
| 40 | feat17 | feat18 |
| | | |
| 44 | feat19 | feat20 |
| | | |
| 48 | feat21 | feat22 |
| | | |
| 52 | feat23 | feat24 |
| | | |
| 56 | feat25 | feat26 |
| | | |
| 60 | feat27 | feat28 |
| | | |
| 64 | feat29 | feat30 |
| | | |
| 68 | feat31 | feat32 |
| | | |
| 72 | feat33 | feat34 |
| | | |
| 76 | feat35 | feat36 |
| | | |
| 80 | feat37 | feat38 |
| | | |
| 84 | feat39 | feat40 |
| | | |
| 88 | feat41 | feat42 |
| | | |
| 92 | feat43 | feat44 |
| | | |
| 96 | feat45 | feat46 |
| | | |
| 100 | feat47 | feat48 |

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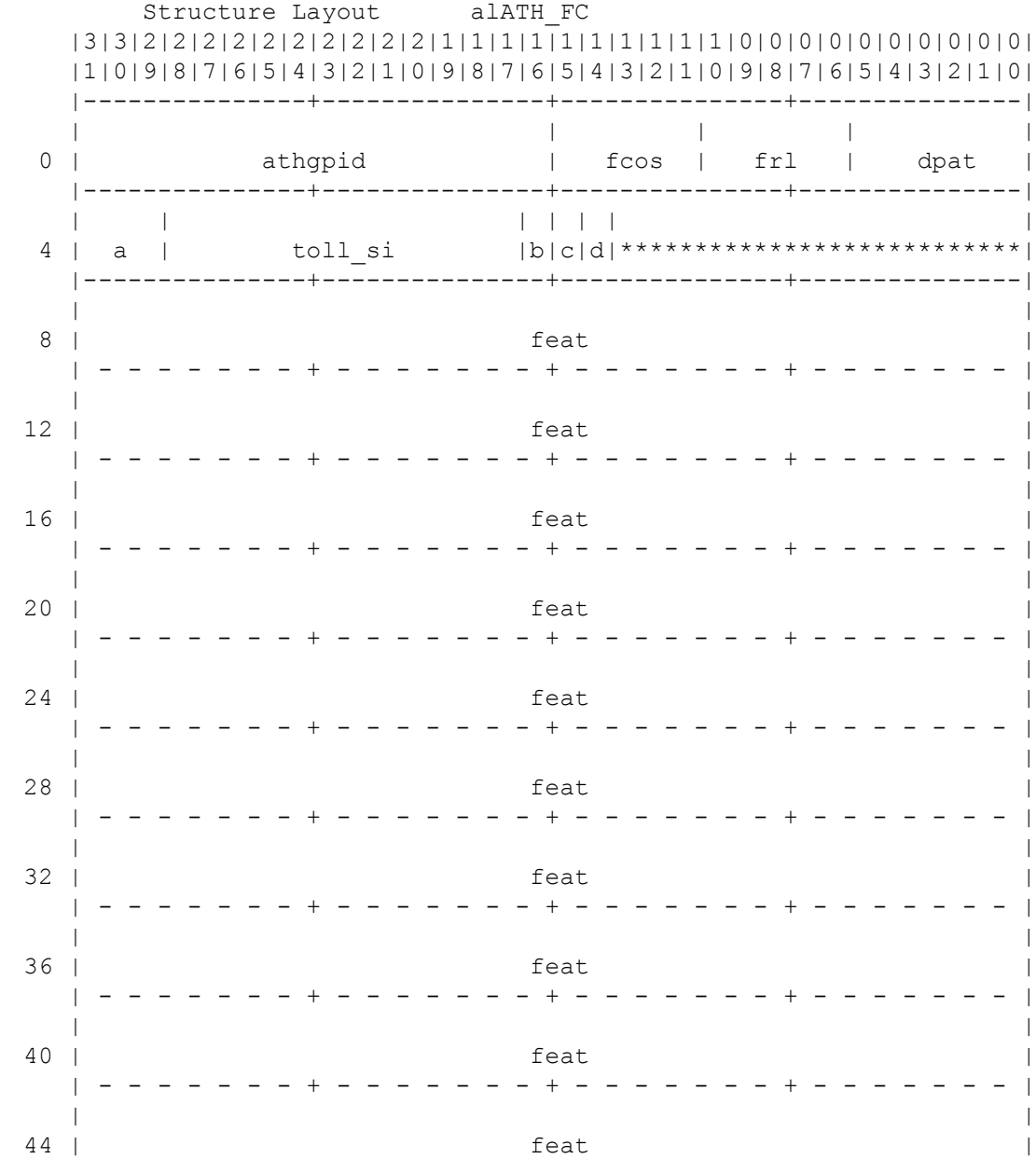
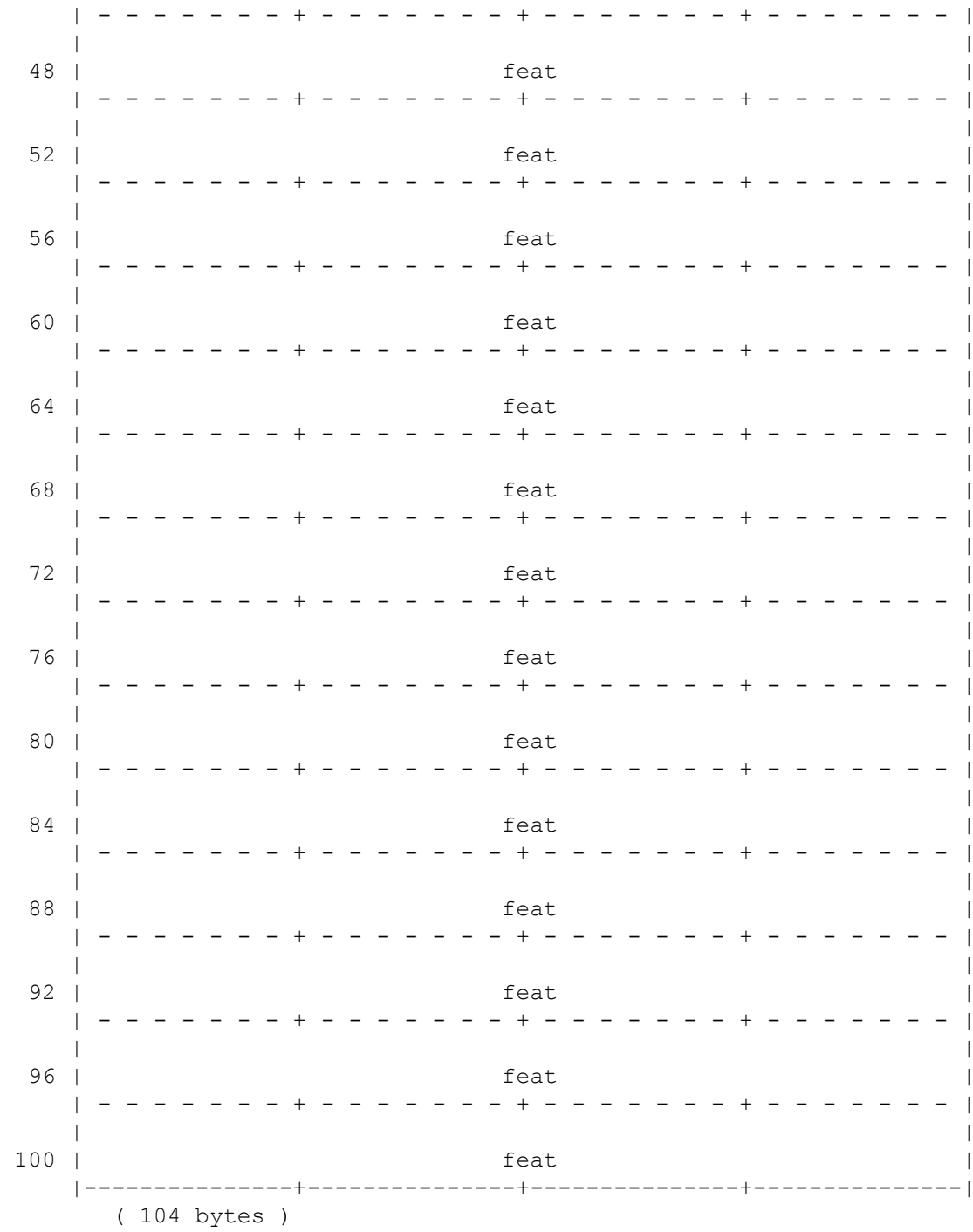
```
       ( 104 bytes )

RLath_fcos.G
domain alATH_FC   struct  (10 sub-attributes)
         athgpid     unsigned short (ushort)
         fcos        .4.fake      (ushort: 5)
         frl         .5.fake      (ushort: 5)
         dpat        .6.fake      (ushort: 6)
 (a)     st_rstrc    .1fake       (enum)
         toll_si     .7.fake      (ushort: 12)
 (b)     dpat_ove    .0fake       (enum)
 (c)     ama         .0fake       (enum)
 (d)     mdr         .0fake       (enum)
         feat        .8.fake      (array [ 48 ] of unsigned short )
```

Structure Layout alATH_FC






## 4. Population Rules for RLath_fcos

**Relation Description:** authorization code feature class of service.

Feature class of service for authorization codes.

RLath_fcos and RLath_prt have an interaction with the ama and mdr features. On the RLath_prt relation, the ath_ama and ath_mdr fields are used to indicate if ama/mdr calls made on the port should be restricted unless a valid authorization code has been entered. When an ama/mdr call is made, the RLath_prt relation is read to

determine if an authorization code is required to allow the call. If an authorization code is required but has not been entered, the customer is given error treatment and the call terminates. If an authorization code is required and one has been entered, the RLath_fcos relation is read to determine if the ama/mdr fields indicate the call can proceed. While both RLath_prt and RLath_fcos are needed to determine the treatment of ama/mdr recorded calls during call processing, there is no dependency for population of the ODD.

**Attribute: athgpid**

**Fullname:** authorization code group identifier

**Attribute Description:** A tuple must exist in RLath_grp keyed by the athgpid.

**Attribute: fcos**

**Fullname:** the feature class of service to be associated with this group

**Attribute Description:** If the nestfcos field for this group is set to DBYES in RLath_grp, then there must exist a tuple in RLath_fcos for the maximum mfcos or afcos value defined in RLath_code for this group and for each fcos less than the maximum.

**Attribute: frl**

**Fullname:** facility restriction level

**Attribute Description:** Facility Restriction Level value to be used to override the existing frl value whenever an authorization code is entered. The valid frl range is 0-16, ARFRL_NONUSE(31) is used as a an internal default for non-populated frl.

**Attribute: dpat**

**Fullname:** dial plan access treatment

**Attribute Description:** Dialing plan access treatment value to be used to override the existing dpat value whenever an authorization code is entered.

**Attribute: st_rstrct**

**Fullname:** type of station restriction

**Attribute Description:** Type of station restriction that can be overridden.

**Attribute: toll_si**

**Fullname:** toll diversion screen index

**Attribute Description:** Screen index to be used to override the screen index associated with a toll diverted terminal.

**Attribute: dpat_override**

**Fullname:** override dpat restriction

**Attribute Description:** If this value is DBYES, then a dpat value must be specified for the 'dpat' field. A dpat value is not applicable and is defaulted to zero when this field is DBNO.

**Attribute: ama**

**Fullname:** automatic message accounting

**Attribute Description:** Indicate if AMA recorded calls can proceed with the fcos specified.

**Attribute: mdr**

**Fullname:** message detail recording

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**Attribute Description:** Indicate if MDR recoreded calls can proceed with fcos specified.

**Attribute: feat[*]**

**Fullname:** feature list

**Attribute Description:** There must be a tuple in RLfacname with a facid equal to this fid. The class must be FACBRCS and subclass SCL_FEAT. Subclass cannot be SCL_CLUST. Feature name in RLfacname for the specified fid cannot be a wild card feature (/xx*) where xx are any alpha characters.

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# ATH_GRP

## 1. Description

Authorization code group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |
| corcable | DBYES |

## 3. Field Layout

```
ATH_GRP  relid = 778   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP

     athgpid     DMFACID      (ushort)     <--- key, not stored
     annc_ri     DMSYSID      (short)
     length      DMUNS4       (ushort: 4)
 (a) err_trtmt   DMMC_ERTRT   (enum: 3)
 (b) nestfcos    DMBOOL       (enum: 1)
 (c) ath_alt     DMBOOL       (enum: 1)
 (d) ma_toggle   DMPARM_SET   (enum: 1)
 (e) failmode    DMBOOL       (enum: 1)
 (f) tod_inh     DMBOOL       (enum: 1)

         User and Compacted Tuple Layout    ATH_GRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |            athgpid             |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                |       |     | | | | | |       |
  4 |            annc_ri             | length|  a  |b|c|d|e|f|*******|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )

     annc_ri     DMSYSID      (short)
     length      DMUNS4       (ushort: 4)
 (a) err_trtmt   DMMC_ERTRT   (enum: 3)
 (b) nestfcos    DMBOOL       (enum: 1)
 (c) ath_alt     DMBOOL       (enum: 1)
 (d) ma_toggle   DMPARM_SET   (enum: 1)
 (e) failmode    DMBOOL       (enum: 1)
 (f) tod_inh     DMBOOL       (enum: 1)

          Stored Tuple Layout      ATH_GRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
```

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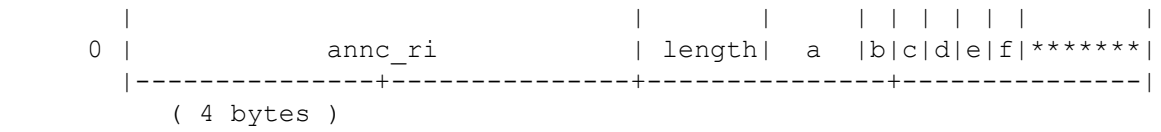


## 4. Population Rules for RLath_grp

**Relation Description:** Authorization code group.

Authorization code group parameters.

CRITICAL INFORMATION:

If there is a change to the key(s) of this relation, YOU MUST NOTIFY the owner of the logging module, db/DBrclog. A coordinated change MUST be made to the logging code or your data will NOT be recovered.

```
Distribution Rules  - group partioned relation by ATHGPID
                      GROUP TYPE = GPDATH
```

This relation will be populated on the AM when the group is first defined. The first time a group is associated with an Authorization Code feature the group data will be deleted from the AM and moved to the SM associated with the line or trunk the Authorization Code feature is assigned to. This can happen in two ways:

(1) An Authorization Code feature is defined with an ath_gpname specified as a default parameter. RLath_tm.ath_gpname is not null. The first time that Authorization Code feature is assigned to a line or a trunk the AM tuple for that authorization code group in RLath_grp will be deleted and moved to the SM RLath_grp relation associated with the line or trunk.

(2) An Authorization Code feature is defined with no authorization code group specified as a default parameter. RLath_tm.ath_grp is null. The Authorization Code feature is assigned to a line or trunk. The Authorization Code line parameters are updated to add an authorization group, RLath_prt.athgpid, to the Authorization Code feature. The authorization code group data in RLath_grp for that athgpid will be deleted from the AM and inserted on the SM associated with the line or trunk the Authorization Code feature is assigned to.

Once a group is deleted from the AM and inserted on an SM the tuples will be copied from one SM to another as the AC feature or features using the group are assigned to different SM's.

There are no unusual requirements for handling the distribution of RLath_grp, the normal GPD rules all apply. For detail on the specifics of handling Group Partioned Data refer to RLdb_amgpd, RLdb_imgpd and RLdb_gpdus.

Engineering Note: This relation is engineered for 1023 tuples.

**Attribute: athgpid**

**Fullname:** Authorization code group indentifier.

**Attribute Description:** This attribute is used as authorization code group identifier.

**Attribute: annc_ri**

**Fullname:** Announcement route index.

**Attribute Description:** Specifies an announcement index to be used if the call is blocked because an ATH was not dialed and restrictions treatment is ER_ANNC.

**Attribute: err_trtmt**

**Fullname:** Error treatment.

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**Attribute Description:** Identifies the error treatment to be given when a call fails with an authorization code that belongs to this authorization code group (athgpid).

**Attribute: length**

**Fullname:** Length for all authorization codes for a group.

**Attribute Description:** Used as length of all authorization codes for a group.

**Attribute: nestfcos**

**Fullname:** Nested feature class of service.

**Attribute Description:** Indicate if the FCOSs have a nested structure.

**Attribute: ath_alt**

**Fullname:** Alternate set of authorization codes.

**Attribute Description:** Indicates if there is an alternate set of authorization codes and their associated privilege sets for the authorization code group.

**Attribute: ma_toggle**

**Fullname:** Activity of main or alternate FCOS

**Attribute Description:** Indicates if the main of alternate FCOS is active.

**Attribute: failmode**

**Fullname:** Failure mode.

**Attribute Description:** Indicates if calls that require an authorization code for use will be allowed or disallowed during a communication failure.

**Attribute: tod_inh**

**Fullname:** Time of day inhibit flag.

**Attribute Description:** Specifies whether time of day changes to Authorization Code group data are inhibited. This field is intended to be used by the end customer through the Facility Management feature, allowing a customer to temporary deactivate the time of day scheduled changes.

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# ATH_PRT

## 1. Description

Authorization code line/trunk parameters.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65531 |
| expected number of tuples | 111 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| density | 34 |
| l1 length of subkey 1 | 2 |
| p1 position of subkey 1 | 16 |
| l2 length of subkey 2 | 16 |
| ks - key store | AUTO |
| p2 position of subkey 2 | 0 |
| corcable | DBYES |

## 3. Field Layout

```
ATH_PRT  relid = 779   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP

     lport       DMLPORT      (ushort: 16)     <--- key
 (a) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key
 (b) ath_first   DMBOOL       (enum: 1)
 (c) ath_ama     DMBOOL       (enum: 1)
 (d) ath_mdr     DMBOOL       (enum: 1)
     athgpid     DMFACID      (ushort)
     athdtgpid   DMFACID      (ushort)

         User, Compacted and Stored Tuple Layout    ATH_PRT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |   | | | |                     |
  0 |              lport             | a |b|c|d|*********************|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  4 |             athgpid            |            athdtgpid          |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLath_prt

**Relation Description:** Authorization code line/trunk parameters.

Authorization Code parameters assigned to a BRCS User (a User is defined to be an analog terminal, a trunk, or an ISDN User).

```
CRITICAL INFORMATION
--------------------
```

If there is a change to the key(s) of this relation, YOU MUST NOTIFY the owner of the logging module, db/DBrclog.

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A coordinated change MUST be made to the logging code or your data will NOT be recovered.

```
SPECIAL ENTRY FOR GROUP PARAMETER ASSOCIATED WITH BFG
-----------------------------------------------------
```

BRCS FEATURE GROUPING (BFG), CAPABILITY G268, IS INTENDED TO IMPROVE RECENT CHANGE RESPONSE TIME AND PROVIDE FOR SM MEMORY REDUCTION. IT PERMITS THE CREATION OF GROUPS OF BRCS FEATURES AND PARAMETERS, AND THE UTILIZATION OF THESE GROUPS BY CALL PROCESSING. BFG GROUP PARAMETER RELATIONS WILL NOT BE CREATED, BUT WILL BE POPULATED IN EXISTING LPORT KEYED RELATIONS.

IDENTIFYING BFG GROUP PARAMETERS WILL BE ACCOMPLISHED VIA USE OF AN LPT_TYPE KEY FIELD SET TO LPT_BFG AND USE OF THE LPORT KEY FIELD TO CONTAIN THE BFG GROUP ID. THIS CONCEPT IS USED TO AVOID CREATION OF NEW DATA BASE RELATIONS.

DISTRIBUTION: GROUP PARTITIONED (IF LPT_TYPE=LPT_BFG) OR SM PARTITIONED

THIS RELATION NOW HAS TWO TYPES OF TUPLES.

(1) THE FIRST TYPE is the existing tuples which are SM-PARTITIONED and remain unchanged. They are keyed by lpt_type != LPT_BFG and lport, and no change has been made to this key or data.

(2) THE SECOND TYPE is the BFG GROUP PARTITIONED TUPLE associated with features in a BRCS Feature Group (BFG), having lpt_type=LPT_BFG, and the bfgid populated in the lport field.

For BFG purposes, RLath_prt is a Group type. Therefore, only BFG lport tuple is permitted for the lport assigned to a BFG. Individual lport tuples may not be created for BFG assigned lports (when the feature is in the BFG).

***NOTE:*** There is a limit of 30 BRCS features for each bfgid. "

**Attribute: lport**

**Fullname:** Logical port

**Attribute Description:** Used as logical port of the User being assigned the BRCS features.

**Attribute: lpt_type**

**Fullname:** lport type

**Attribute Description:** Used as Logical port type of the User.

**Attribute: athgpid**

**Fullname:** Authorization code group identifier.

**Attribute Description:** Used as authorization code group identifier.

**Attribute: athdtgpid**

**Fullname:** Authorization data group id.

**Attribute Description:** Identifies the ATH data group. If a non-zero athdtgpid is specified, a tuple must exist in RLath_grp keyed by athgpid.

**Attribute: ath_first**

**Fullname:** Indicator of authorization code required first.

**Attribute Description:** Indicates if the authorization code is required first.

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**Attribute: ath_ama**

**Fullname:** Authorization code is required before allowing AMA recorded calls to proceed.

**Attribute Description:** Indicates if an authorization code is required before allowing any AMA recorded calls to proceed.

**Attribute: ath_mdr**

**Fullname:** Authorization code indicator required before allowing message detail recording to proceed.

**Attribute Description:** Indicates of an authorization code is required before allowing message detail recording to proceed.

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# ATH_TM

## 1. Description

Authorization code (ATH) feature definition.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |

## 3. Field Layout

```
ATH_TM   relid = 781   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP

     ath_fid     DMMCC_FID    (ushort)     <--- key
 (a) ath_prompt  DMMC_TONE    (enum: 3)
     actvn       DMMC_ACTYP   (enum: 3)
 (b) ama_field   DMACCT_FLD   (enum: 2)
 (c) dctvn       DMMC_DCTYP   (enum: 2)
 (d) ama_override  DMBOOL       (enum: 1)
 (e) chg_ma      DMBOOL       (enum: 1)
 (f) chg_acf     DMBOOL       (enum: 1)
 (g) ath_ama     DMBOOL       (enum: 1)
 (h) ath_mdr     DMBOOL       (enum: 1)
 (i) ath_first   DMBOOL       (enum: 1)
     ath_gpname  DMFACNAME    (array [ 8 ] of char )
     ath_dtgpname  DMFACNAME    (array [ 8 ] of char )
     amac        DMMC_BILL    (struct)
 (j)     flat        DMBOOL       (enum: 1)
 (k)     usefreq1    DMBOOL       (enum: 1)
 (l)     usefreq2    DMBOOL       (enum: 1)
 (m)     usefreq3    DMBOOL       (enum: 1)
 (n)     usefreq4    DMBOOL       (enum: 1)
 (o)     actchrg     DMBOOL       (enum: 1)
 (p)     dactchrg    DMBOOL       (enum: 1)
 (q)     duration    DMBOOL       (enum: 1)
 (r)     change      DMBOOL       (enum: 1)

        User, Compacted and Stored Tuple Layout ATH_TM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |     |     |   |   | | | | | | |
 0 |            ath_fid            |  a  |actvn| b | c |d|e|f|g|h|i|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 4 |                           ath_gpname                          |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
```

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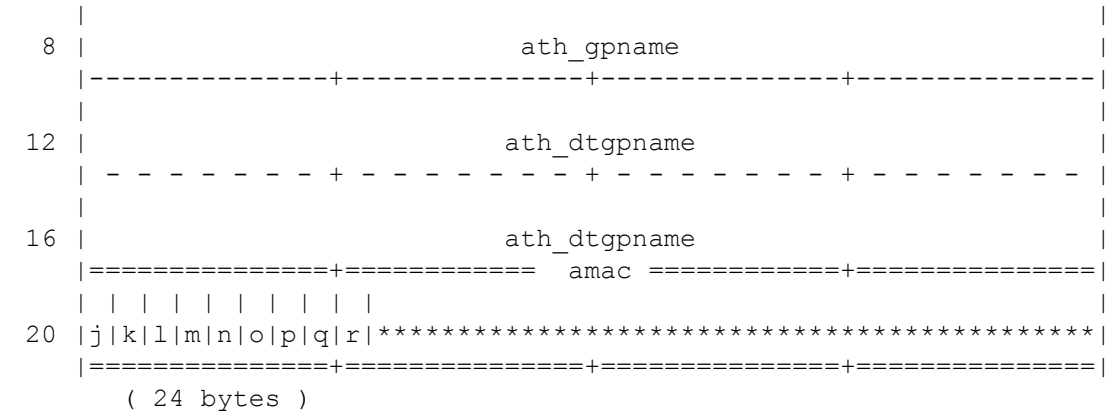


## 4. Population Rules for RLath_tm

**Relation Description:** Authorization Codes Template.

ath_tm - This relation describes the default parameters and options associated with an Authorization Code feature defined within an office.

Each authorization code feature defined within an office will have a tuple describing the feature in this relation.

**Attribute: ath_fid**

**Fullname:** Authorization Code Constructed Feature Identifier

**Attribute Description:** feature identifier

**Attribute: amac**

**Fullname:** AMA Charging

**Attribute Description:** Boolean structure indicating the combination of AMA charging. In each case a DBYES indicates the type of billing that is applicable and DBNO indicates it is not. See the RDL domain DMmc_bill for a description of each sub-attribute.

**Attribute: amac.flat**

**Fullname:** AMA Flat Rate Charging

**Attribute Description:** AMA charging based on a flat rate, no usage sensitive charging.

**Attribute: amac.usefreq1**

**Fullname:** AMA Charging Usage Frequency Event One

**Attribute Description:** AMA charging based on usage frequency event one.

**Attribute: amac.usefreq2**

**Fullname:** AMA Charging Usage Frequency Event Two

**Attribute Description:** AMA charging based on usage frequency event two.

**Attribute: amac.usefreq3**

**Fullname:** AMA Charging Usage Frequency Event Three

**Attribute Description:** AMA charging based on usage frequency event three.

**Attribute: amac.usefreq4**

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**Fullname:** AMA Charging Usage Frequency Event Four

**Attribute Description:** AMA charging based on usage frequency event four.

**Attribute: amac.actchrg**

**Fullname:** AMA Activation Charge

**Attribute Description:** AMA charging for activation.

**Attribute: amac.dactchrg**

**Fullname:** AMA Deactivation Charge

**Attribute Description:** AMA charging for deactivation.

**Attribute: amac.duration**

**Fullname:** AMA Use Duration Charge

**Attribute Description:** AMA charging for duration of use.

**Attribute: amac.change**

**Fullname:** AMA Parameter Change Charge

**Attribute Description:** AMA charging for changing of parameters.

**Attribute: ath_gpname**

**Fullname:** Authorization Code Voice Group Name

**Attribute Description:** Authorization Code voice group associated with this feature.

**Attribute: ath_dtgpname**

**Fullname:** Authorization Code Data Group Name

**Attribute Description:** Authorization Code data group associated with this feature. Data Authorization Code groups can only exist on a feature assigned a voice group.

**Attribute: ath_prompt**

**Fullname:** Authorization Code Prompt

**Attribute Description:** The type of prompt that will be given to the user indicating the authorization code should be entered.

**Attribute: ama_field**

**Fullname:** AMA Record Field Type

**Attribute Description:** Indicates whether the feature produces an AMA record with an 8-digit authorization code field or a 15-character authorization code field.

**Attribute: actvn**

**Fullname:** Feature Activation Method

**Attribute Description:** Method of Activating a Constructed Feature.

**Attribute: dctvn**

**Fullname:** Feature Deactivation Method

**Attribute Description:** Method of Deactivating a Constructed Feature.

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**Attribute: ama_override**

**Fullname:** AMA Account Code Override

**Attribute Description:** Indicates if the account code field in the AMA record can be overridden by the authorization code.

**Attribute: chg_ma**

**Fullname:** Customer Changable Feature Class of Service Allowed

**Attribute Description:** Indicates if the customer can change the ma_toggle field in the RLath_grp relation via a dialed code.

**Attribute: chg_acf**

**Fullname:** Customer Changable Authorization Order Allowed

**Attribute Description:** Indicate if the customer can change the ath_first field in the RLath_prt relation via dialed code.

**Attribute: ath_ama**

**Fullname:** AMA Authorization Requirement

**Attribute Description:** Indicate if an authorization code is required before allowing any AMA recorded calls to proceed.

**Attribute: ath_mdr**

**Fullname:** MDR Authorization Requirement

**Attribute Description:** Indicate if an authorization code is required before allowing message detail recorded calls to proceed.

**Attribute: ath_first**

**Fullname:** Authorization Code Required First

**Attribute Description:** Indicate if the authorization code is required first with entry of an authorization code use code.

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# ATSDATA

## 1. Description

Automatic trunk test scheduler (ATTS) test session definition table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 6000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | CGA |
| relation type | DBSTATIC |
| trigger function | TMatstrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
ATSDATA   relid = 2067  DBSTATIC   DBACC_HASH  DBPRAM    LP      CGA

     grpnum      DMGRPNUM     (ushort)
     mem_lo      DMUNS11      (ushort: 11)
     stt_hr      DMUNS5       (ushort: 5)     <--- key
     mem_hi      DMUNS11      (ushort: 11)
     sched       DMUNS5       (ushort: 5)     <--- key
     stt_min     DMUNS6       (ushort: 6)     <--- key
     stp_min     DMUNS6       (ushort: 6)
     week        DMUNS4       (ushort: 4)     <--- key
     stp_hr      DMUNS5       (ushort: 5)
     tran        DMATMETRN    (enum: 3)
     sig         DMATMESIG    (enum: 3)
     day         DMUNS3       (ushort: 3)     <--- key
 (a) skip        DMBOOL       (enum: 1)
 (b) link        DMBOOL       (enum: 1)
 (c) order       DMBOOL       (enum: 1)

         User, Compacted and Stored Tuple Layout    ATSDATA
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                       |       |
  0 |             grpnum            |        mem_lo         |  stt_hr |
    |---------------+---------------+---------------+---------------|
    |                       |       |           |           |       |
  4 |        mem_hi         |  sched  |  stt_min  |  stp_min  |  week |
    |---------------+---------------+---------------+---------------|
    |         |     |     |     | | | |                             |
  8 |  stp_hr | tran| sig | day |a|b|c|*****************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLatsdata

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**Relation Description:** Automatic trunk test scheduler (ATTS) test session definition table.

Each tuple in this relation parametrically defines a test session in a certain test schedule to be invoked by ATTS for the purpose of performing automated trunk testing over a specified range of equipped members of a specified trunk group. This relation supports multiple individual test schedules, each spanning up to an eight-week period. The ATTS schedules are maintained by office personnel by modifying the population of this relation's tuples via Recent Change transactions. While the individual tuples themselves may be populated in any order, ATTS treats the tuples as a representation of a time-ordered sequence of test sessions on a per-schedule basis. Within a given ATTS schedule these individual test sessions may not overlap, but individual test sessions defined in one ATTS schedule may overlap with those in another schedule.

The test session time parameters are specified in terms of hours and minutes with respect to Greenwich Mean Time (GMT). The Global Office Parameter Gltimezone will be used by the ATTS software to convert the scheduled time values read from this relation into local office time values.

While this relation and the associated ATTS software supports multiple schedules, it is possible to populate all tuples in such a way that they relate to a single schedule. As such, this relation may be considered as providing a pool of test session tuples to be allocated among the various schedules as per the intent of office personnel. The maximum number of schedules supported is largely a software determination. Yet the number of tuples in the relation is also constrained, for resource management considerations, to a pre-determined maximum quantity. The Global Office Parameter Glats_tcnt will be used by Recent Change to track the actual number of tuples populated in the relation at any given time, thereby allowing enforcement of the maximum tuple quantity constraint.

**Attribute: sched**

**Fullname:** An ATTS schedule number

**Attribute Description:** Specifies the individual ATTS schedule for which this test session is defined.

**Attribute: week**

**Fullname:** Week within schedule that session begins.

**Attribute Description:** Specifies the week within the individual ATTS schedule that the test session is to begin executing.

**Attribute: day**

**Fullname:** Day session begins

**Attribute Description:** Specifies the day within the given 'week' that the test session is to begin executing.

**Attribute: stt_hr**

**Fullname:** Hour session begins

**Attribute Description:** Specifies the hour within the given 'day' during which the test session is to begin executing.

***NOTE:*** The value 0 corresponds to the midnight hour with respect to UTC.

**Attribute: stt_min**

**Fullname:** Minute session begins

**Attribute Description:** Specifies the minute within the given 'stt_hr' during which the test session is to begin executing.

**Attribute: stp_hr**

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**Fullname:** Hour session ends

**Attribute Description:** Specifies the hour during which the test session is to stop executing.

**Attribute: stp_min**

**Fullname:** Minute session ends

**Attribute Description:** Specifies the minute within the given 'stp_hr' that the test session is to stop executing.

**Attribute: skip**

**Fullname:** Ignore this test session entry? (y/n)

**Attribute Description:** Indicates whether or not the given test session should be skipped when its scheduled starting time arrives.

***NOTE:*** If the value indicates DBYES, then ATTS will skip the current session and proceed with the next. The time at which the next session will be started will depend on whether or not that next session is defined as part of a chain of test sessions (refer to the notes given for the population of the 'link' attribute). If the next test session is not defined as part of a chain, then it will begin executing at the time specified by the contents of its tuple (provided that the value of 'skip' in that tuple indicates DBNO). Otherwise it will begin executing immediately (again provided that the value of 'skip' in that tuple indicates DBNO), as if the skipped session had been allocated zero time to execute. This flag may be used to temporarily prevent a test session from executing without requiring the need to delete its entry from the schedule.

**Attribute: link**

**Fullname:** Link this test session to the previous session? (y/n)

**Attribute Description:** Indicates whether or not this test session should begin executing immediately if and when the previous session completes its execution early.

**Attribute: grpnum**

**Fullname:** Trunk group whose members are to be tested

**Attribute Description:** Identifies the individual trunk group to be tested during this test session.

**Attribute: mem_lo**

**Fullname:** Lower limit of group members to be tested.

**Attribute Description:** Specifies the first member (lower bound) in a range of members of the specified trunk group to be tested during this session.

**Attribute: mem_hi**

**Fullname:** Upper limit of group members to test.

**Attribute Description:** Specifies the last member (upper bound) in a range of members of the specified trunk group to be tested during this session.

**Attribute: order**

**Fullname:** Sequence in which trunk group members will be tested.

**Attribute Description:** Indicates the sequence in which the trunk group members will be tested either low-to-high (ascending - DBNO) or high-to-low (descending - DBYES).

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**Attribute: tran**

**Fullname:** Type of ATME transmission test.

**Attribute Description:** Specifies the type of ATME transmission test to perform on all equipped members of the given trunk group during this test session. Currently this attribute is not used.

**Attribute: sig**

**Fullname:** Type of ATME signaling test.

**Attribute Description:** Specifies the type of ATME signaling test(s) to perform on all equipped members of the given trunk group during this test session. Currently this attribute is not used.

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# ATSFTBTN

## 1. Description

This static relation is group partitioned and will reside on every GPDCONFIG partitioned SM and also the CMP. On SMs, it contains one tuple per configuration group that is assigned to at least one standard, circuit switched terminal on that SM. On the CMP, it contains all standard configuration groups defined on the switch (assigned to terminals or not).

The relation stores a 256 bit array where a set bit (1) indicates the corresponding National ISDN-2 feature button (button 1 thru 254) is configured. The most significant bit (MSB) of each attribute corresponds to the highest number of the given range (except for the assign7 attribute where the MSB is reserved / not used). The least significant bit (LSB) of each attribute corresponds to the lowest number of the given range (except for the assign0 attribute where the LSB is reserved / not used).

The key for this relation is the configuration group number and is 12 bits in length.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4096 |
| expected tuples in relation | 2048 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | DBNO |
| trigger function | TMatsftbtn |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | unperm |

## 3. Field Layout

```
ATSFTBTN   relid = 2030  DBSTATIC   DBACC_CIND  DBPRAM   LPFG   RCMAP

     config      DMCONFIG     (ulong: 12)     <--- key, not stored
     assign0     DMCFGBM      (ulong)
     assign1     DMCFGBM      (ulong)
     assign2     DMCFGBM      (ulong)
     assign3     DMCFGBM      (ulong)
     assign4     DMCFGBM      (ulong)
     assign5     DMCFGBM      (ulong)
     assign6     DMCFGBM      (ulong)
     assign7     DMCFGBM      (ulong)
     spare1      DMUSHORT     (ushort)
     spare2      DMUCHAR      (uchar)
 (a) spare3      DMBOOL       (enum: 1)
 (b) spare4      DMBOOL       (enum: 1)
     spare5      DMUNS6       (ushort: 6)

         User and Compacted Tuple Layout   ATSFTBTN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
```

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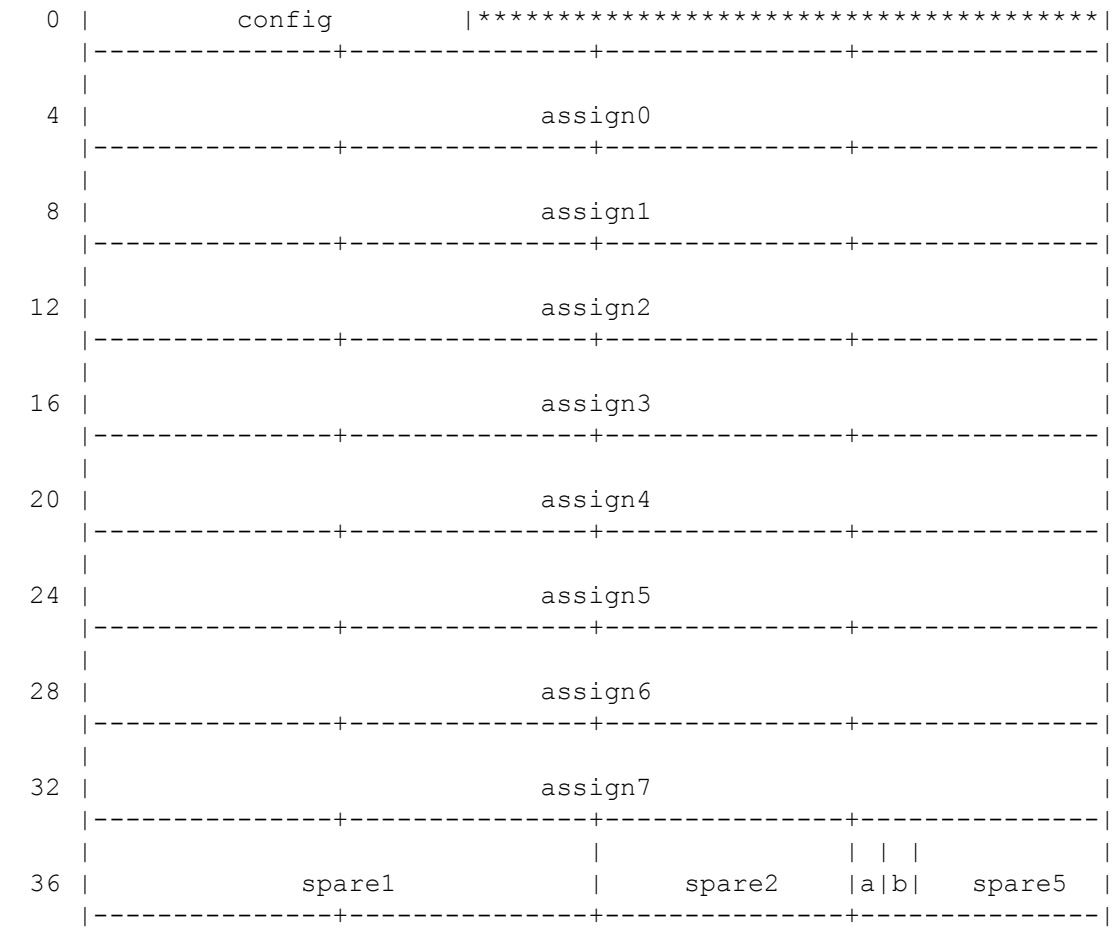
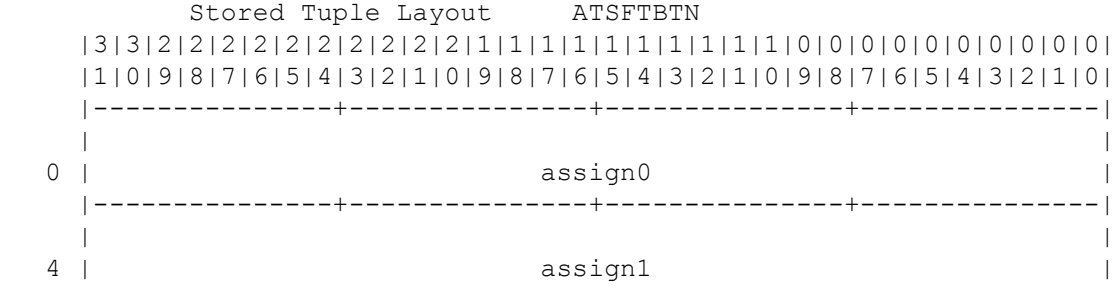



( 40 bytes )

| | | | |
|---|---|---|---|
| | assign0 | DMCFGBM | (ulong) |
| | assign1 | DMCFGBM | (ulong) |
| | assign2 | DMCFGBM | (ulong) |
| | assign3 | DMCFGBM | (ulong) |
| | assign4 | DMCFGBM | (ulong) |
| | assign5 | DMCFGBM | (ulong) |
| | assign6 | DMCFGBM | (ulong) |
| | assign7 | DMCFGBM | (ulong) |
| | spare1 | DMUSHORT | (ushort) |
| | spare2 | DMUCHAR | (uchar) |
| (a) | spare3 | DMBOOL | (enum: 1) |
| (b) | spare4 | DMBOOL | (enum: 1) |
| | spare5 | DMUNS6 | (ushort: 6) |

Stored Tuple Layout ATSFTBTN

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```
    |--------------+--------------+--------------+--------------|
    |                                                           |
  8 |                          assign2                          |
    |--------------+--------------+--------------+--------------|
    |                                                           |
 12 |                          assign3                          |
    |--------------+--------------+--------------+--------------|
    |                                                           |
 16 |                          assign4                          |
    |--------------+--------------+--------------+--------------|
    |                                                           |
 20 |                          assign5                          |
    |--------------+--------------+--------------+--------------|
    |                                                           |
 24 |                          assign6                          |
    |--------------+--------------+--------------+--------------|
    |                                                           |
 28 |                          assign7                          |
    |--------------+--------------+--------------+--------------|
    |                              |              | | |          |
 32 |            spare1            |    spare2    |a|b|  spare5  |
    |--------------+--------------+--------------+--------------|
      ( 36 bytes )
```

```
RLatsftbtn.G
domain alATSFTB   struct  (7 sub-attributes)
         config      .2.fake      (ulong: 12)
         assign      .3.fake      (array [ 8 ] of unsigned long )
         spare1      unsigned short (ushort)
         spare2      unsigned char (uchar)
 (a)     spare3      .0fake       (enum)
 (b)     spare4      .0fake       (enum)
         spare5      .4.fake      (ushort: 6)

         Structure Layout      alATSFTB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |                       |                                   |
  0 |         config        |***********************************|
    |--------------+--------------+--------------+--------------|
    |                                                           |
  4 |                          assign                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                           |
  8 |                          assign                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                           |
 12 |                          assign                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                           |
 16 |                          assign                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                           |
```

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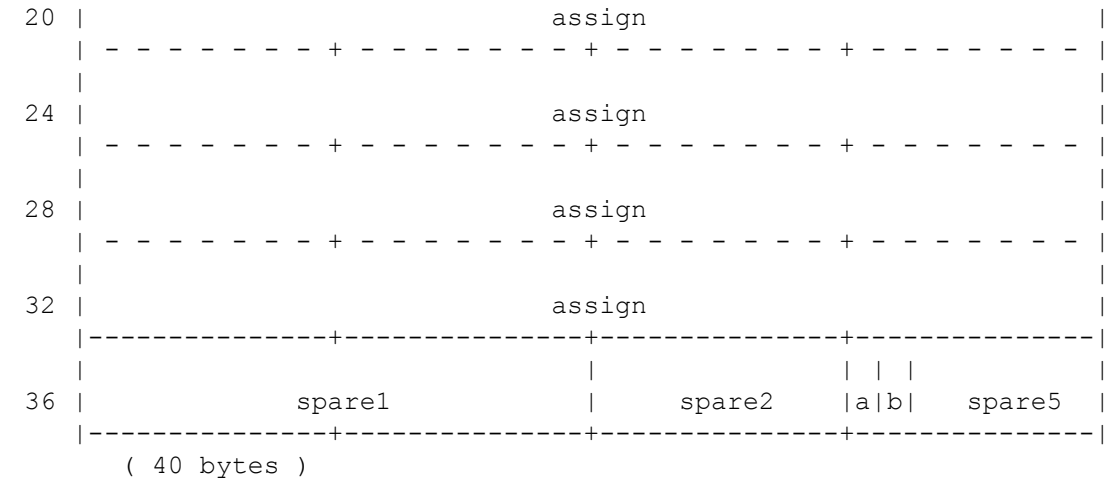


## 4. Population Rules for RLatsftbtn

**Relation Description:** Automatic Terminal Setup Feature Button Configuration Group Assignment.

This relation contains one tuple for every Standard Terminal Configuration group defined by group type GPDCONFIG. The relation will exist on the CMP and in SMs as defined by the GPDCONFIG assignment partitioning. Each tuple of the relation is composed of the configuration group number and 8 bitmap fields. A Standard Terminal may have up to 254 feature buttons.

These buttons are grouped in 8 bitmaps (6 complete sets of 32 bits and 2 incomplete sets of 32 bits) as follows:

```
attribute assign0 stores buttons 31 - 1 (button 0 unused)
attribute assign1 stores buttons 63 - 32
attribute assign2 stores buttons 95 - 64
attribute assign3 stores buttons 127 - 96
attribute assign4 stores buttons 159 - 128
attribute assign5 stores buttons 191 - 160
attribute assign6 stores buttons 223 - 192
attribute assign7 stores buttons 254 - 224 (button 255 reserved)
```

If a bit in any bitmap is set, this indicates the corresponding feature button is configured with a feature action. As depicted in the previous bit ranges, the MSB of each attribute corresponds to the highest number of the given range (except for the assign7 attribute where the MSB is not used and equal 0 (no button 255)). The LSB thus refers to the lowest button in the attribute range except for assign0 where the LSB is always 0 (no button 0). This attribute design allows for direct indexing into the alternate structure by the operational software. There must always exist a tuple in RLrc_cfgbm keyed by RLatsftbtn.config where RLrc_cfgbm.fword[0-7] equal RLatsftbtn.assign[0-7].

**Attribute: config**

**Fullname:** Standard Terminal Configuration Group Number

**Attribute Description:** When populated on an SM, this attribute should contain all Standard Terminal Configuration Groups assigned to standard terminals on this SM. On the CMP, this attribute will contain all of the Standard Configuration Groups defined on the switch (assigned or not).

**Attribute: assign0**

**Fullname:** Bitmap 0 indicating feature buttons 31-1 assigned

**Attribute Description:** This attribute is a bitmap that indicates whether a feature button on a

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Standard Configuration group is assigned to a feature action. This bitmap stores bits corresponding to feature buttons 31 thru 1. Bit position 0 (rightmost LSB) must always be set to zero. See the relation description for more information.

**Attribute: assign1**

**Fullname:** Bitmap 1 indicating feature buttons 63 - 32 assigned

**Attribute Description:** This attribute is a bitmap that indicates whether a feature button on a Standard Configuration group is assigned to a feature action. This bitmap stores bits corresponding to feature buttons 63 thru 32. See the relation description for more information.

**Attribute: assign2**

**Fullname:** Bitmap 2 indicating feature buttons 95 - 64 assigned

**Attribute Description:** This attribute is a bitmap that indicates whether a feature button on a Standard Configuration group is assigned to a feature action. This bitmap stores bits corresponding to feature buttons 95 thru 64. See the relation description for more information.

**Attribute: assign3**

**Fullname:** Bitmap 3 indicating feature buttons 127 - 96 assigned

**Attribute Description:** This attribute is a bitmap that indicates whether a feature button on a Standard Configuration group is assigned to a feature action. This bitmap stores bits corresponding to feature buttons 127 thru 96. See the relation description for more information.

**Attribute: assign4**

**Fullname:** Bitmap 4 indicating feature buttons 159 - 128 assigned

**Attribute Description:** This attribute is a bitmap that indicates whether a feature button on a Standard Configuration group is assigned to a feature action. This bitmap stores bits corresponding to feature buttons 159 thru 128. See the relation description for more information.

**Attribute: assign5**

**Fullname:** Bitmap 5 indicating feature buttons 191 - 160 assigned

**Attribute Description:** This attribute is a bitmap that indicates whether a feature button on a Standard Configuration group is assigned to a feature action. This bitmap stores bits corresponding to feature buttons 191 thru 160. See the relation description for more information.

**Attribute: assign6**

**Fullname:** Bitmap 6 indicating feature buttons 223 - 192 assigned

**Attribute Description:** This attribute is a bitmap that indicates whether a feature button on a Standard Configuration group is assigned to a feature action. This bitmap stores bits corresponding to feature buttons 223 thru 192. See the relation description for more information.

**Attribute: assign7**

**Fullname:** Bitmap 7 indicating feature buttons 254 - 224 assigned

**Attribute Description:** This attribute is a bitmap that indicates whether a feature button on a Standard Configuration group is assigned to a feature action. This bitmap stores bits corresponding to feature buttons 254 thru 224 (bit 32, the leftmost bit (MSB) must always be zero). See the relation description for more information.

**Attribute: spare1**

**Fullname:** spare attribute for future use

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**Attribute Description:** spare attribute for future use

**Attribute: spare2**

**Fullname:** spare attribute for future use

**Attribute Description:** Spare attribute for future use.

**Attribute: spare3**

**Fullname:** spare attribute for future use

**Attribute Description:** Spare attribute for future use.

**Attribute: spare4**

**Fullname:** spare attribute for future use

**Attribute Description:** Spare attribute for future use.

**Attribute: spare5**

**Fullname:** spare attribute for future use

**Attribute Description:** Spare attribute for future use.

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# ATSOPTS

## 1. Description

An extension to RLatsparam.G, which provides additional options for controlling an automatic trunk test scheduler (ATTS) test session.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | CGA |
| relation type | DBSTATIC |

## 3. Field Layout

```
ATSOPTS   relid = 2068  DBSTATIC   DBACC_CIND  DBPRAM    LP      CGA

     max_calls   DMUSHORT     (ushort)
     max_errors  DMUSHORT     (ushort)
     xshort      DMUSHORT     (ushort)
     xuns8       DMUNS8       (ushort: 8)
     sched       DMUNS5       (ushort: 5)     <--- key
 (a) cycle       DMBOOL       (enum: 1)
 (b) xbool1      DMBOOL       (enum: 1)
 (c) xbool2      DMBOOL       (enum: 1)

         User, Compacted and Stored Tuple Layout    ATSOPTS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |           max_calls           |           max_errors          |
    |---------------+---------------+---------------+---------------|
    |                               |               |         | | | |
  4 |             xshort            |     xuns8     |  sched  |a|b|c|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLatsopts

### Relation Description

RLatsopts - automatic trunk test scheduler (ATTS) test schedule options table.

This relation is an extension of RLatsparam.G, and defines additional options which are used to control an ATTS test session on a per-schedule basis.

**Attribute: sched**

**Fullname:** An ATTS schedule number.

**Attribute Description:** Each tuple in this relation will be an extension of a tuple in the RLatsdata relation with the same ATTS schedule number.

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**Attribute: max_calls**

**Fullname:** Maximum number of total call attempts per test session.

**Attribute Description:** Specifies the maximum number of call attempts per test session. Used as a threshold which, when exceeded, causes the test session to terminate. A value of 0 indicates no maximum.

**Attribute: max_errors**

**Fullname:** Maximum number of total errors detected per test session

**Attribute Description:** Specifies the maximum number of errors per test session. Used as a threshold which, when exceeded, causes the test session to terminate. A value of 0 indicates no maximum.

**Attribute: xshort**

**Fullname:** Spare attribute.

**Attribute Description:** Spare attribute provided for future use.

**Attribute: xuns8**

**Fullname:** Spare attribute.

**Attribute Description:** Spare attribute provided for future use.

**Attribute: cycle**

**Fullname:** Cyclic restart indicator.

**Attribute Description:** This attribute indicates if the entire test cycle should be repeated continuously. DBYES value for cycle indicates that after all trunk members of the specified trunk group and of the 'retry list' have been tested, the user may optionally choose to repeat the entire test cycle until the timer expires, the user chooses to not repeat the test cycle, or some other stop criteria is met (such as maximum call attempts). DBNO value for cycle indicates that only one iteration of the test session is to be performed.

**Attribute: xbool1**

**Fullname:** Spare attribute.

**Attribute Description:** Spare attribute provided for future use.

**Attribute: xbool2**

**Fullname:** Spare attribute.

**Attribute Description:** Spare attribute provided for future use.

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# ATSPARAM

## 1. Description

This relation contains a table of parameters which control an Automatic Trunk Test Scheduler (ATTS) test session on a per-schedule basis.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | CGA |
| relation type | DBSTATIC |

## 3. Field Layout

```
ATSPARAM  relid = 2069  DBSTATIC   DBACC_CIND  DBPRAM    LP      CGA

     ref_cnt     DMUNS12      (ushort: 12)
 (a) tst_type    DMTCATTT     (enum: 4)
     sched       DMUNS5       (ushort: 5)     <--- key
     max_fail    DMUNS5       (ushort: 5)
     max_loop    DMUNS5       (ushort: 5)
 (b) ctbsyabt    DMBOOL       (enum: 1)
     max_cong    DMUNS5       (ushort: 5)
     max_ansto   DMUNS5       (ushort: 5)
     max_dirto   DMUNS5       (ushort: 5)
 (c) retry       DMBOOL       (enum: 1)
     print       DMATMEPRT    (enum: 4)
 (d) retest      DMBOOL       (enum: 1)

         User, Compacted and Stored Tuple Layout   ATSPARAM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                         |       |         |         |         | |
  0 |        ref_cnt          |   a   |  sched  | max_fail| max_loop|b|
    |---------------+---------------+---------------+---------------|
    |         |         |         | |       | |                       |
  4 | max_cong|max_ansto|max_dirto|c| print |d|***********************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLatsparam

### Relation Description

Automatic Trunk Test Scheduler (ATTS) test schedule parameters table

This relation defines a table of parameters which are used to control an ATTS test session on a per-schedule basis.

**Attribute: sched**

**Fullname:** An ATTS schedule number.

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**Attribute Description:** The key to this relation table is provided by the value of the 'sched' attribute in the RLatsdata relation.

**Attribute: tst_type**

**Fullname:** Type of test.

**Attribute Description:** Specifies the type of test to be performed during test sessions associated with ATTS schedule 'sched'.

**Attribute: max_fail**

**Fullname:** Maximum number of successive aborted test attempts per test session.

**Attribute Description:** Specifies the maximum number of consecutive aborted trunk test attempts allowed per test session. Used as a threshold which, when reached, causes a test session to terminate.

**Attribute: ctbsyabt**

**Fullname:** Count busy-trunk aborted tests with miscellaneous aborts?

**Attribute Description:** Specifies whether or not tests which abort because the trunk is busy should be included in the counter associated with the threshold for miscellaneous aborted tests (RLatsparam.max_fail).

**Attribute: max_loop**

**Fullname:** Maximum number of loops through a session's retry list.

**Attribute Description:** Specifies the maximum number of passes which should be performed per test session through a list of trunks associated with aborted tests for which another test attempt should be made , time permitting. Used as a threshold which causes a test session to terminate when trunks remain on the list after the specified maximum number of passes through the list have been made. The value of 0 will allow the retry list to be turned off.

**Attribute: max_cong**

**Fullname:** Maximum number of successive tests per session which result in detection of congestion.

**Attribute Description:** Specifies the maximum number of consecutive trunk test attempts per test session which are allowed to result in detection of congestion. Used as a threshold which, when exceeded, causes a test session to terminate.

**Attribute: max_ansto**

**Fullname:** Maximum number of successive tests per session which result in the director timing out while waiting for an Answer (or equivalent) signal.

**Attribute Description** Specifies the maximum number of consecutive trunk test attempts per test session which are allowed to result in the director timing out while waiting for an Answer (or equivalent) signal from the far end. Used as a threshold which, when exceeded, causes a test session to terminate.

**Attribute: max_dirto**

**Fullname:** Maximum number of successive tests per session which result in the director timing out while waiting for an event other than receipt of an Answer (or equivalent) signal.

**Attribute Description:** Specifies the maximum number of consecutive trunk test attempts per test session which are allowed to result in the director timing out while waiting for an event other than receipt of an answer (or equivalent) signal from the far end. Used as a threshold which, when

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exceeded, causes a test session to terminate.

**Attribute: print**

**Fullname:** Test session immediate print control flag.

**Attribute Description:** Specifies how to output, in real time, the result of each test.

The following layout defines the use of various automatic transmission measuring equipment (ATME) report print formats currently not supported by US.

| type of results printed | C0 | C1 | C2 | C3 | C4 | C5 | C6 |
|---|---|---|---|---|---|---|---|
| clean test passe | | | | x | | | x |
| outside service limits | | x | | x | x | | x |
| outside maint limits | | | x | x | | x | x |
| fails signaling test | x | x | x | x | x | x | x |
| invalid trunk | x | | | | x | x | x |
| trunk unavailable | x | | | | x | x | x |
| responder busy | x | | | | x | x | x |

**Attribute: ref_cnt**

**Fullname:** Count of the number of references.

**Attribute Description:** A counter which tracks the number of tuples in the static AM relation RLatsdata which have a value in their 'sched' attribute which equals the value of this tuple's key.

**Attribute: retry**

**Fullname:** Maximum number of loops through a session's retry list.

**Attribute Description:** Specifies the maximum number of passes which should be performed per test session through a list of trunks associated with aborted tests for which another test attempt should be made , time permitting. Used as a threshold which causes a test session to terminate when trunks remain on the list after the specified maximum number of passes through the list have been made. The value of 0 will allow the retry list to be turned off.

**Attribute: retest**

**Fullname:** Repeat a failed test

**Attribute Description:** Specifies whether or not an immediate attempt to repeat a failed test should be made.

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# AUT_REC

## 1. Description

Static relation defining patterns used as input for automatic reconfiguration.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 84 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | ACDQ |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 2 |
| permutation type | un_perm |

## 3. Field Layout

```
AUT_REC   relid = 766   DBSTATIC   DBACC_CIND  DBPRAM    LP      ACDQ

     pat_id      DMUNS7       (ushort: 7)     <--- key
     pat_name    DMCTXT10     (array [ 10 ] of char )
 (a) pat_fdow    DMUNS3       (ushort: 3)
     pat_hofd    DMUNS5       (ushort: 5)
     pat_mofh    DMUNS6       (ushort: 6)
 (b) cqop_done   DMBOOL       (enum: 1)
 (c) act_done    DMBOOL       (enum: 1)
 (d) deac_done   DMBOOL       (enum: 1)
 (e) act_data    DMBOOL       (enum: 1)
 (f) deac_data   DMBOOL       (enum: 1)
 (g) cqst_data   DMBOOL       (enum: 1)
 (h) opst_data   DMBOOL       (enum: 1)
 (i) dummy_var   DMUNS3       (ushort: 3)
     pat_1ctst   DMUNS8       (ushort: 8)
     pat_2ctst   DMUNS8       (ushort: 8)
     pat_3ctst   DMUNS8       (ushort: 8)
     pat_4ctst   DMUNS8       (ushort: 8)
     pat_5ctst   DMUNS8       (ushort: 8)
     pat_6ctst   DMUNS8       (ushort: 8)
     pat_7ctst   DMUNS8       (ushort: 8)
     pat_8ctst   DMUNS8       (ushort: 8)
     pat_9ctst   DMUNS8       (ushort: 8)
     pat_10ctst  DMUNS8       (ushort: 8)
     pat_11ctst  DMUNS8       (ushort: 8)
     pat_12ctst  DMUNS8       (ushort: 8)
     pat_13ctst  DMUNS8       (ushort: 8)
     pat_14ctst  DMUNS8       (ushort: 8)
     pat_15ctst  DMUNS8       (ushort: 8)
     pat_16ctst  DMUNS8       (ushort: 8)
     pat_17ctst  DMUNS8       (ushort: 8)
     pat_18ctst  DMUNS8       (ushort: 8)
     pat_19ctst  DMUNS8       (ushort: 8)
     pat_20ctst  DMUNS8       (ushort: 8)
```

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```
pat_21ctst  DMUNS8       (ushort: 8)
pat_22ctst  DMUNS8       (ushort: 8)
pat_23ctst  DMUNS8       (ushort: 8)
pat_24ctst  DMUNS8       (ushort: 8)
pat_25ctst  DMUNS8       (ushort: 8)
pat_26ctst  DMUNS8       (ushort: 8)
pat_27ctst  DMUNS8       (ushort: 8)
pat_28ctst  DMUNS8       (ushort: 8)
pat_29ctst  DMUNS8       (ushort: 8)
pat_30ctst  DMUNS8       (ushort: 8)
pat_31ctst  DMUNS8       (ushort: 8)
pat_32ctst  DMUNS8       (ushort: 8)
pat_33ctst  DMUNS8       (ushort: 8)
pat_34ctst  DMUNS8       (ushort: 8)
pat_35ctst  DMUNS8       (ushort: 8)
pat_36ctst  DMUNS8       (ushort: 8)
pat_37ctst  DMUNS8       (ushort: 8)
pat_38ctst  DMUNS8       (ushort: 8)
pat_39ctst  DMUNS8       (ushort: 8)
pat_40ctst  DMUNS8       (ushort: 8)
pat_41ctst  DMUNS8       (ushort: 8)
pat_42ctst  DMUNS8       (ushort: 8)
pat_43ctst  DMUNS8       (ushort: 8)
pat_44ctst  DMUNS8       (ushort: 8)
pat_45ctst  DMUNS8       (ushort: 8)
pat_46ctst  DMUNS8       (ushort: 8)
pat_47ctst  DMUNS8       (ushort: 8)
pat_48ctst  DMUNS8       (ushort: 8)
pat_49ctst  DMUNS8       (ushort: 8)
pat_50ctst  DMUNS8       (ushort: 8)
pat_51ctst  DMUNS8       (ushort: 8)
pat_52ctst  DMUNS8       (ushort: 8)
pat_53ctst  DMUNS8       (ushort: 8)
pat_54ctst  DMUNS8       (ushort: 8)
pat_55ctst  DMUNS8       (ushort: 8)
pat_56ctst  DMUNS8       (ushort: 8)
pat_57ctst  DMUNS8       (ushort: 8)
pat_58ctst  DMUNS8       (ushort: 8)
pat_59ctst  DMUNS8       (ushort: 8)
pat_60ctst  DMUNS8       (ushort: 8)
pat_61ctst  DMUNS8       (ushort: 8)
pat_62ctst  DMUNS8       (ushort: 8)
pat_63ctst  DMUNS8       (ushort: 8)
pat_64ctst  DMUNS8       (ushort: 8)
pat_65ctst  DMUNS8       (ushort: 8)
pat_66ctst  DMUNS8       (ushort: 8)
pat_67ctst  DMUNS8       (ushort: 8)
pat_68ctst  DMUNS8       (ushort: 8)
pat_69ctst  DMUNS8       (ushort: 8)
pat_70ctst  DMUNS8       (ushort: 8)
pat_71ctst  DMUNS8       (ushort: 8)
pat_72ctst  DMUNS8       (ushort: 8)
pat_73ctst  DMUNS8       (ushort: 8)
pat_74ctst  DMUNS8       (ushort: 8)
```

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```
pat_75ctst  DMUNS8       (ushort: 8)
pat_76ctst  DMUNS8       (ushort: 8)
pat_77ctst  DMUNS8       (ushort: 8)
pat_78ctst  DMUNS8       (ushort: 8)
pat_79ctst  DMUNS8       (ushort: 8)
pat_80ctst  DMUNS8       (ushort: 8)
pat_81ctst  DMUNS8       (ushort: 8)
pat_82ctst  DMUNS8       (ushort: 8)
pat_83ctst  DMUNS8       (ushort: 8)
pat_84ctst  DMUNS8       (ushort: 8)
pat_85ctst  DMUNS8       (ushort: 8)
pat_86ctst  DMUNS8       (ushort: 8)
pat_87ctst  DMUNS8       (ushort: 8)
pat_88ctst  DMUNS8       (ushort: 8)
pat_89ctst  DMUNS8       (ushort: 8)
pat_90ctst  DMUNS8       (ushort: 8)
pat_91ctst  DMUNS8       (ushort: 8)
pat_92ctst  DMUNS8       (ushort: 8)
pat_93ctst  DMUNS8       (ushort: 8)
pat_94ctst  DMUNS8       (ushort: 8)
pat_95ctst  DMUNS8       (ushort: 8)
pat_96ctst  DMUNS8       (ushort: 8)
pat_97ctst  DMUNS8       (ushort: 8)
pat_98ctst  DMUNS8       (ushort: 8)
pat_99ctst  DMUNS8       (ushort: 8)
pat_100ctst  DMUNS8       (ushort: 8)
pat_101ctst  DMUNS8       (ushort: 8)
pat_102ctst  DMUNS8       (ushort: 8)
pat_103ctst  DMUNS8       (ushort: 8)
pat_104ctst  DMUNS8       (ushort: 8)
pat_105ctst  DMUNS8       (ushort: 8)
pat_106ctst  DMUNS8       (ushort: 8)
pat_107ctst  DMUNS8       (ushort: 8)
pat_108ctst  DMUNS8       (ushort: 8)
pat_109ctst  DMUNS8       (ushort: 8)
pat_110ctst  DMUNS8       (ushort: 8)
pat_111ctst  DMUNS8       (ushort: 8)
pat_112ctst  DMUNS8       (ushort: 8)
pat_113ctst  DMUNS8       (ushort: 8)
pat_114ctst  DMUNS8       (ushort: 8)
pat_115ctst  DMUNS8       (ushort: 8)
pat_116ctst  DMUNS8       (ushort: 8)
pat_117ctst  DMUNS8       (ushort: 8)
pat_118ctst  DMUNS8       (ushort: 8)
pat_119ctst  DMUNS8       (ushort: 8)
pat_120ctst  DMUNS8       (ushort: 8)
pat_121ctst  DMUNS8       (ushort: 8)
pat_122ctst  DMUNS8       (ushort: 8)
pat_123ctst  DMUNS8       (ushort: 8)
pat_124ctst  DMUNS8       (ushort: 8)
pat_125ctst  DMUNS8       (ushort: 8)
pat_126ctst  DMUNS8       (ushort: 8)
pat_127ctst  DMUNS8       (ushort: 8)
pat_128ctst  DMUNS8       (ushort: 8)
```

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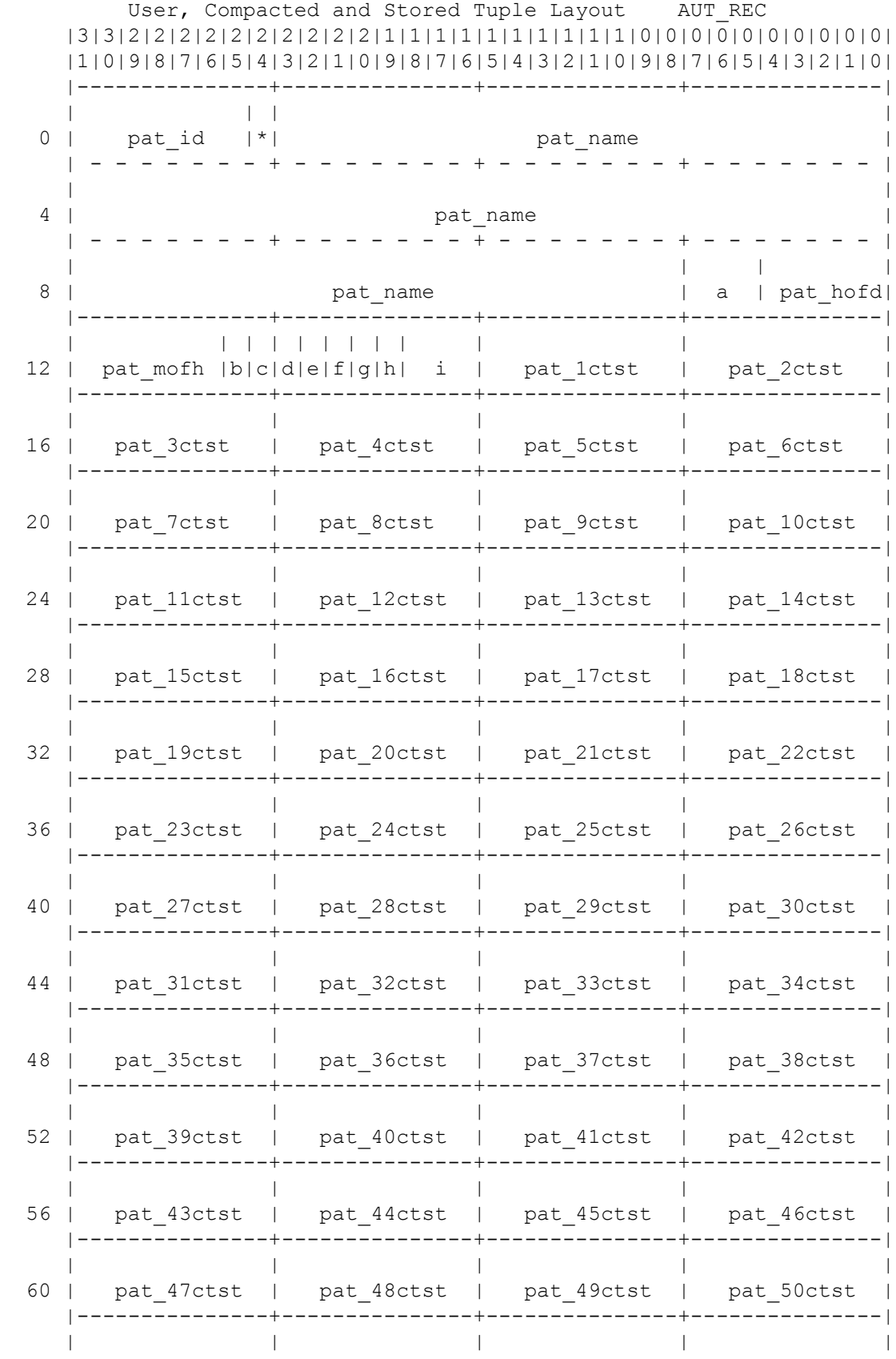
User, Compacted and Stored Tuple Layout AUT_REC

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| | | | | |
|---|---|---|---|---|
| 64 | pat_51ctst | pat_52ctst | pat_53ctst | pat_54ctst |
| 68 | pat_55ctst | pat_56ctst | pat_57ctst | pat_58ctst |
| 72 | pat_59ctst | pat_60ctst | pat_61ctst | pat_62ctst |
| 76 | pat_63ctst | pat_64ctst | pat_65ctst | pat_66ctst |
| 80 | pat_67ctst | pat_68ctst | pat_69ctst | pat_70ctst |
| 84 | pat_71ctst | pat_72ctst | pat_73ctst | pat_74ctst |
| 88 | pat_75ctst | pat_76ctst | pat_77ctst | pat_78ctst |
| 92 | pat_79ctst | pat_80ctst | pat_81ctst | pat_82ctst |
| 96 | pat_83ctst | pat_84ctst | pat_85ctst | pat_86ctst |
| 100 | pat_87ctst | pat_88ctst | pat_89ctst | pat_90ctst |
| 104 | pat_91ctst | pat_92ctst | pat_93ctst | pat_94ctst |
| 108 | pat_95ctst | pat_96ctst | pat_97ctst | pat_98ctst |
| 112 | pat_99ctst | pat_100ctst | pat_101ctst | pat_102ctst |
| 116 | pat_103ctst | pat_104ctst | pat_105ctst | pat_106ctst |
| 120 | pat_107ctst | pat_108ctst | pat_109ctst | pat_110ctst |
| 124 | pat_111ctst | pat_112ctst | pat_113ctst | pat_114ctst |
| 128 | pat_115ctst | pat_116ctst | pat_117ctst | pat_118ctst |
| 132 | pat_119ctst | pat_120ctst | pat_121ctst | pat_122ctst |

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```
136 |  pat_123ctst  |  pat_124ctst  |  pat_125ctst  |  pat_126ctst  |
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
140 |  pat_127ctst  |  pat_128ctst  |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 144 bytes )

RLaut_rec.G
domain alAUT_RE   struct  (14 sub-attributes)
         pat_id      .134.fake    (ushort: 7)
         pat_name    .135.fake    (array [ 10 ] of char )
 (a)     pat_fdow    .136.fake    (ushort: 3)
         pat_hofd    .137.fake    (ushort: 5)
         pat_mofh    .138.fake    (ushort: 6)
 (b)     cqop_don    .0fake       (enum)
 (c)     act_done    .0fake       (enum)
 (d)     deac_don    .0fake       (enum)
 (e)     act_data    .0fake       (enum)
 (f)     deac_dat    .0fake       (enum)
 (g)     cqst_dat    .0fake       (enum)
 (h)     opst_dat    .0fake       (enum)
 (i)     dummy_va    .139.fake    (ushort: 3)
         pat_ctst    .140.fake    (array [ 128 ] of unsigned char )

         Structure Layout      alAUT_RE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |             | |                                               |
  0 |    pat_id   |*|                    pat_name                   |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                            pat_name                           |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                 |     |       |
  8 |                    pat_name                     |  a  | pat_hofd|
    |---------------+---------------+---------------+---------------|
    |           | | | | | | | |     |                               |
 12 |  pat_mofh |b|c|d|e|f|g|h|  i  |           pat_ctst            |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                            pat_ctst                           |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                            pat_ctst                           |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 24 |                            pat_ctst                           |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 28 |                            pat_ctst                           |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 32 |                            pat_ctst                           |
```

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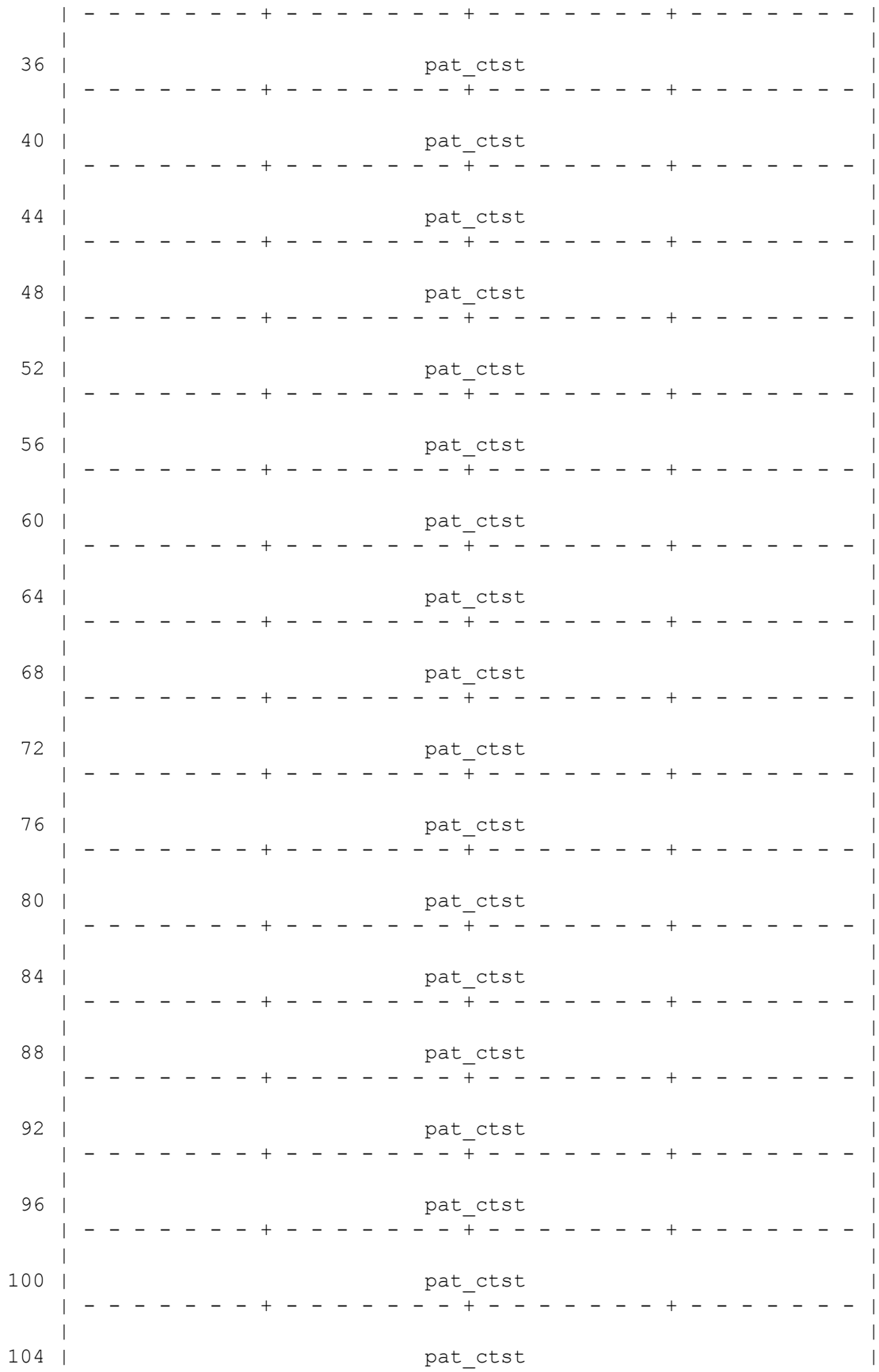


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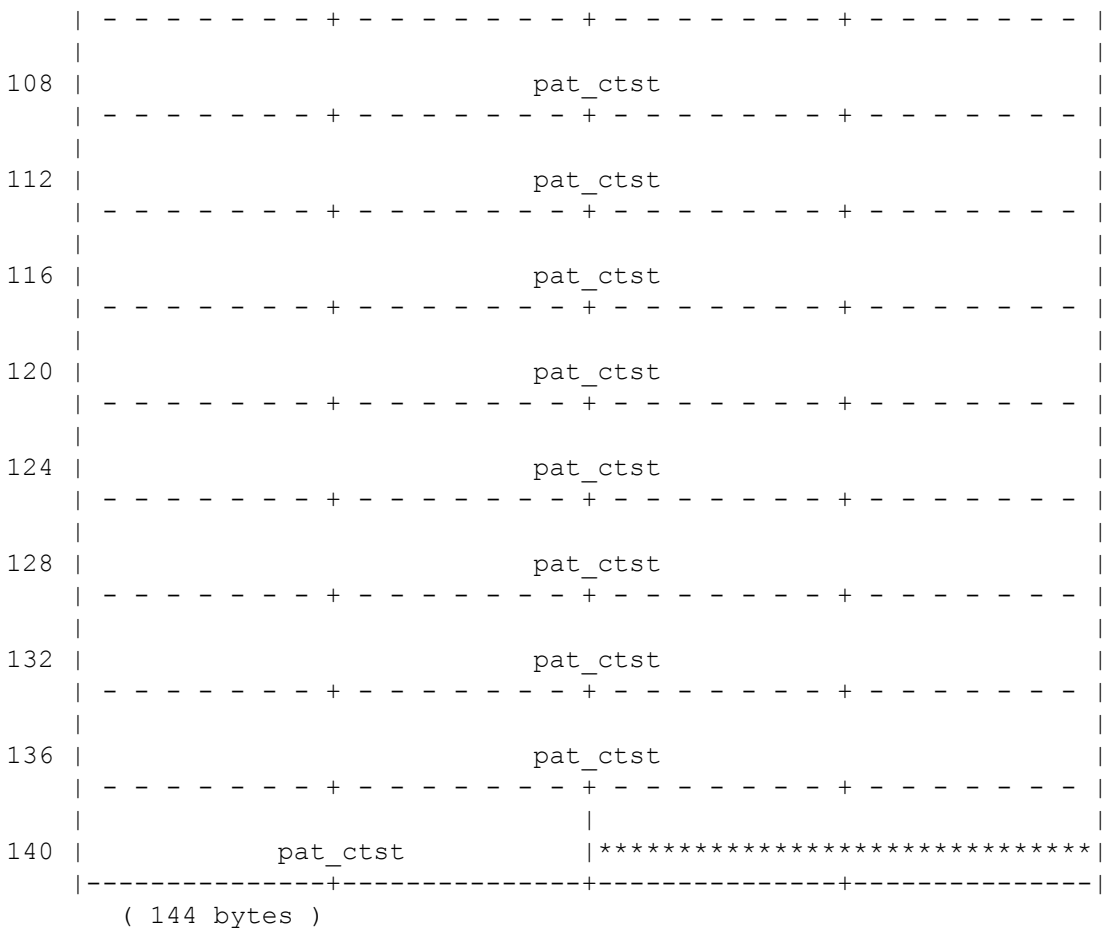


## 4. Population Rules for RLaut_rec

**Relation Description:** Automatic Reconfiguration

Static relation defining patterns used as input for Automatic Reconfiguration.

**Attribute: pat_id**

**Fullname:** Pattern ID

**Attribute Description:** Integer pattern ID.

**Attribute: pat_name**

**Fullname:** Pattern Name

**Attribute Description:** Pattern Name.

**Attribute: pat_fdow**

**Fullname:** Pattern Forcing Day of Week

**Attribute Description:** Pattern 'forcing' day of week. Day zero represents Sunday.

**Attribute: pat_hofd**

**Fullname:** Pattern hour of day

**Attribute Description:** Pattern hour of day.

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**Attribute: pat_mofh**

**Fullname:** pattern minute of hour

**Attribute Description:** pattern minute of hour.

**Attribute: cqop_done**

**Fullname:** call Queue/Operator pattern data activated?

**Attribute Description:** Call Queue/Operator pattern data activated? DBYES if pattern has been activated, DBNO otherwise.

**Attribute: act_done**

**Fullname:** Interflow Activation pattern data activated?

**Attribute Description:** Interflow Activation pattern data activated? DBYES if pattern has been activated, DBNO otherwise.

**Attribute: deac_done**

**Fullname:** Interflow Deactivation pattern data activated

**Attribute Description:** Interflow Deactivation pattern data activated? DBYES if pattern has been activated, DBNO otherwise.

**Attribute: act_data**

**Fullname:** Interflow activation data?

**Attribute Description:** DBYES if interflow activation data is in the pattern. DBNO otherwise.

**Attribute: deac_data**

**Fullname:** Interflow deactivation data?

**Attribute Description:** DBYES if interflow deactivation data in the pattern. DBNO otherwise.

**Attribute: cqst_data**

**Fullname:** Call Queue/Serving Team data

**Attribute Description:** DBYES if there is call queue to serving team reconfiguration data in the pattern. DBNO otherwise.

**Attribute: opst_data**

**Fullname:** Operator/Serving Team data?

**Attribute Description:** DBYES if there is operator to serving team reconfiguration data in the pattern, DBNO otherwise.

**Attribute: dummy_var**

**Fullname:** Dummy Variable

**Attribute Description:** Dummy variable used to reserve 3 bits.

**Attribute: pat[*]ctst**

**Fullname:** Pattern call type to serving team

**Attribute Description:** Pattern's call type to serving team mapping.

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## 2.3 RELATIONS: B

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# B900NB

## 1. Description

This relation indicates whether a 900 call can be charged to a LEC card. This is based on NPA-NXX of the LEC calling card number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 800 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 512 |
| data page size | 512 |
| page level | 2 |
| ks key store | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
B900NB      relid = 1875  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     npa          DMUNS10      (ushort: 10)     <--- key, not stored
     oamap00      DMOAH32      (ulong)
     oamap01      DMOAH32      (ulong)
     oamap02      DMOAH32      (ulong)
     oamap03      DMOAH32      (ulong)
     oamap04      DMOAH32      (ulong)
     oamap05      DMOAH32      (ulong)
     oamap06      DMOAH32      (ulong)
     oamap07      DMOAH32      (ulong)
     oamap08      DMOAH32      (ulong)
     oamap09      DMOAH32      (ulong)
     oamap10      DMOAH32      (ulong)
     oamap11      DMOAH32      (ulong)
     oamap12      DMOAH32      (ulong)
     oamap13      DMOAH32      (ulong)
     oamap14      DMOAH32      (ulong)
     oamap15      DMOAH32      (ulong)
     oamap16      DMOAH32      (ulong)
     oamap17      DMOAH32      (ulong)
     oamap18      DMOAH32      (ulong)
     oamap19      DMOAH32      (ulong)
     oamap20      DMOAH32      (ulong)
     oamap21      DMOAH32      (ulong)
     oamap22      DMOAH32      (ulong)
     oamap23      DMOAH32      (ulong)
     oamap24      DMOAH32      (ulong)
         User and Compacted Tuple Layout     B900NB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  0 |        npa        |*******************************************|
    |---------------+---------------+---------------+---------------|
```

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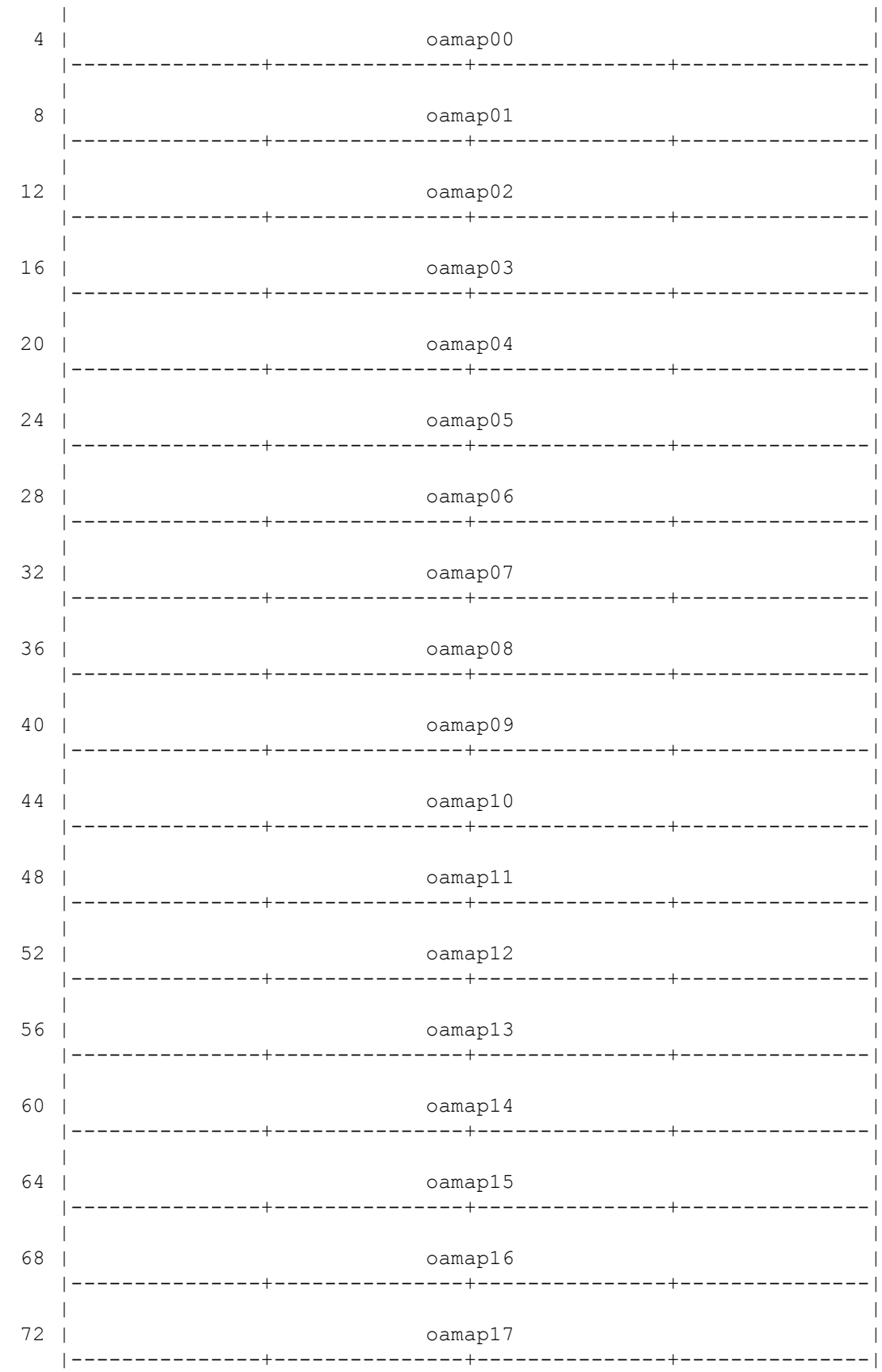


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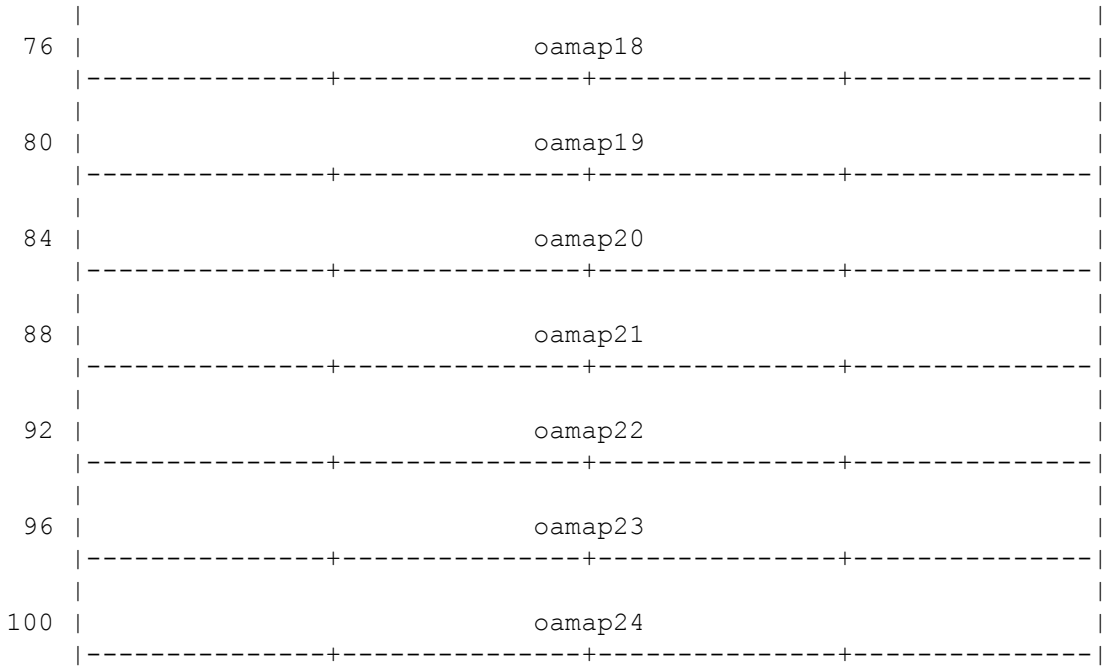
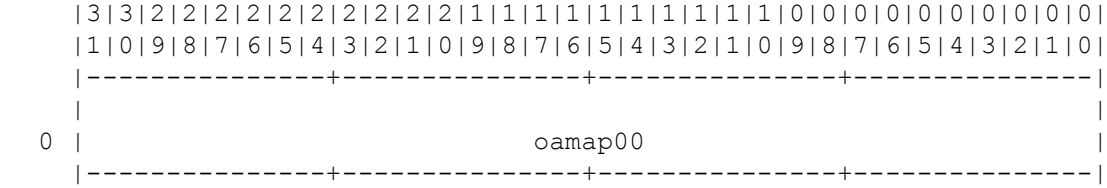



( 104 bytes )

| | | |
|---|---|---|
| oamap00 | DMOAH32 | (ulong) |
| oamap01 | DMOAH32 | (ulong) |
| oamap02 | DMOAH32 | (ulong) |
| oamap03 | DMOAH32 | (ulong) |
| oamap04 | DMOAH32 | (ulong) |
| oamap05 | DMOAH32 | (ulong) |
| oamap06 | DMOAH32 | (ulong) |
| oamap07 | DMOAH32 | (ulong) |
| oamap08 | DMOAH32 | (ulong) |
| oamap09 | DMOAH32 | (ulong) |
| oamap10 | DMOAH32 | (ulong) |
| oamap11 | DMOAH32 | (ulong) |
| oamap12 | DMOAH32 | (ulong) |
| oamap13 | DMOAH32 | (ulong) |
| oamap14 | DMOAH32 | (ulong) |
| oamap15 | DMOAH32 | (ulong) |
| oamap16 | DMOAH32 | (ulong) |
| oamap17 | DMOAH32 | (ulong) |
| oamap18 | DMOAH32 | (ulong) |
| oamap19 | DMOAH32 | (ulong) |
| oamap20 | DMOAH32 | (ulong) |
| oamap21 | DMOAH32 | (ulong) |
| oamap22 | DMOAH32 | (ulong) |
| oamap23 | DMOAH32 | (ulong) |
| oamap24 | DMOAH32 | (ulong) |

Stored Tuple Layout B900NB

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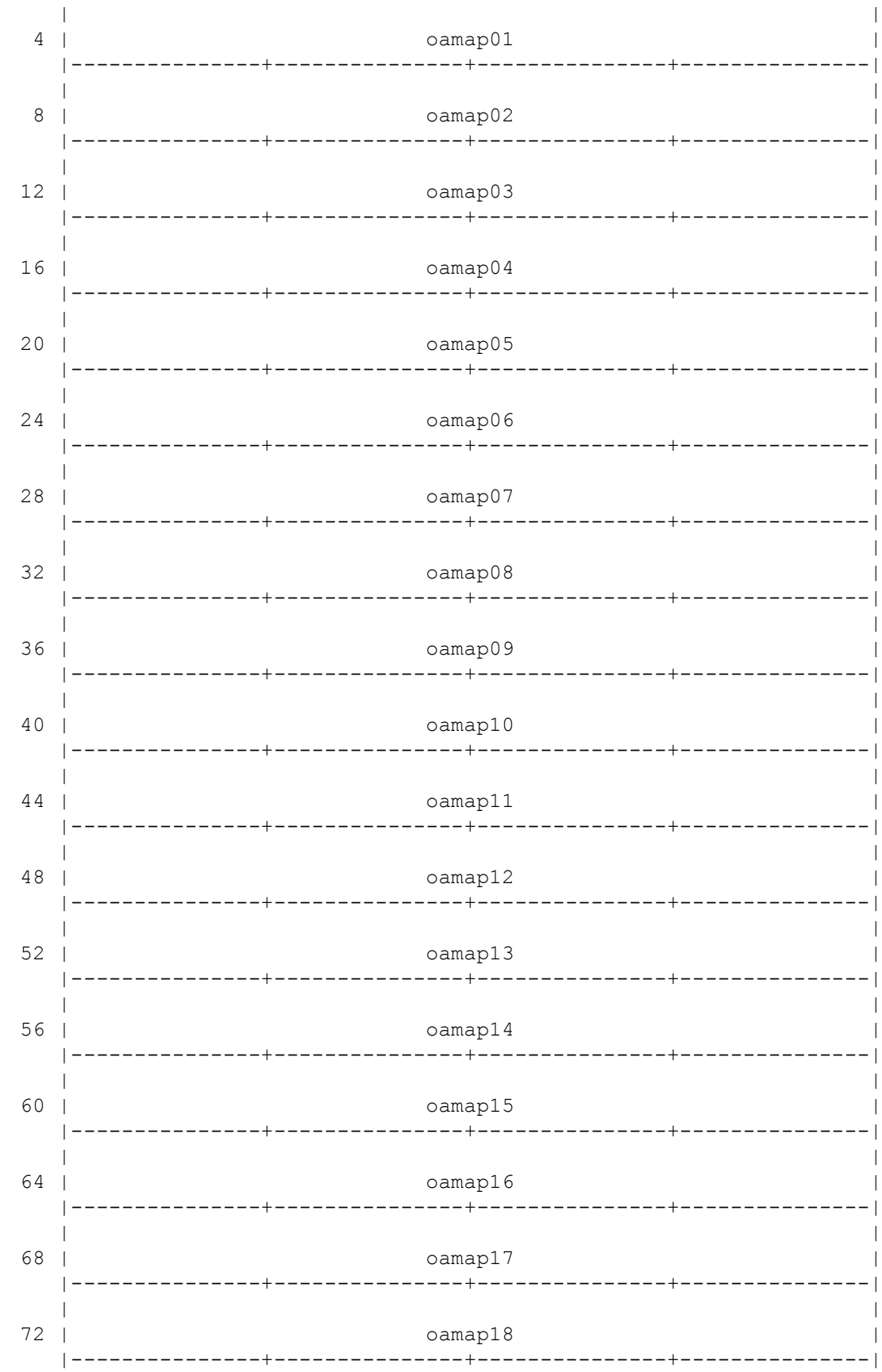


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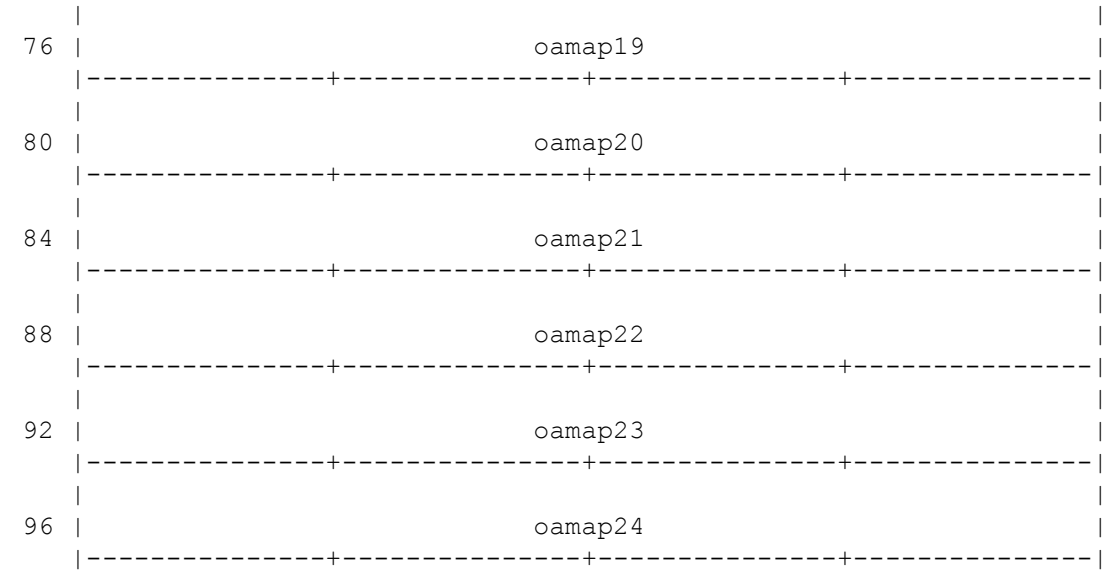
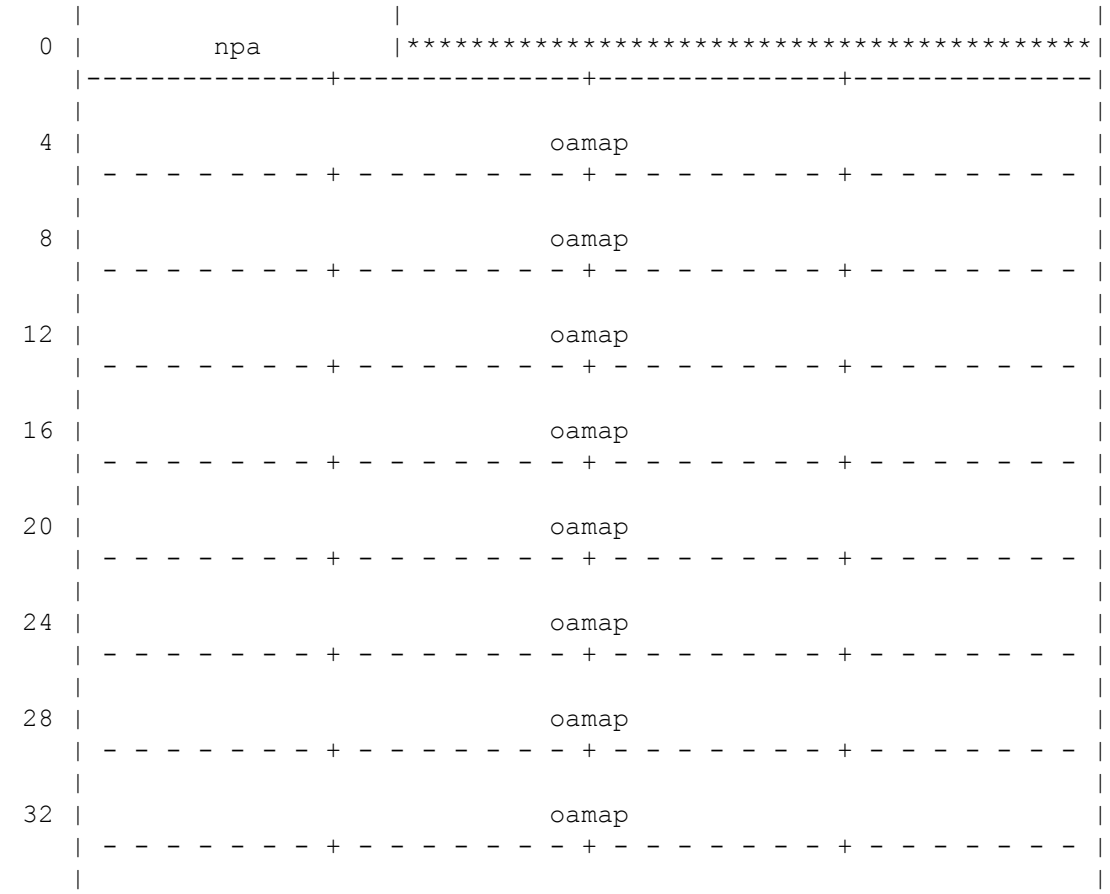



( 100 bytes )

```
domain alB900NB   struct  (2 sub-attributes)
          npa         .1.fake      (ushort: 10)
          oamap       .2.fake      (array [ 25 ] of unsigned long )
        Structure Layout      alB900NB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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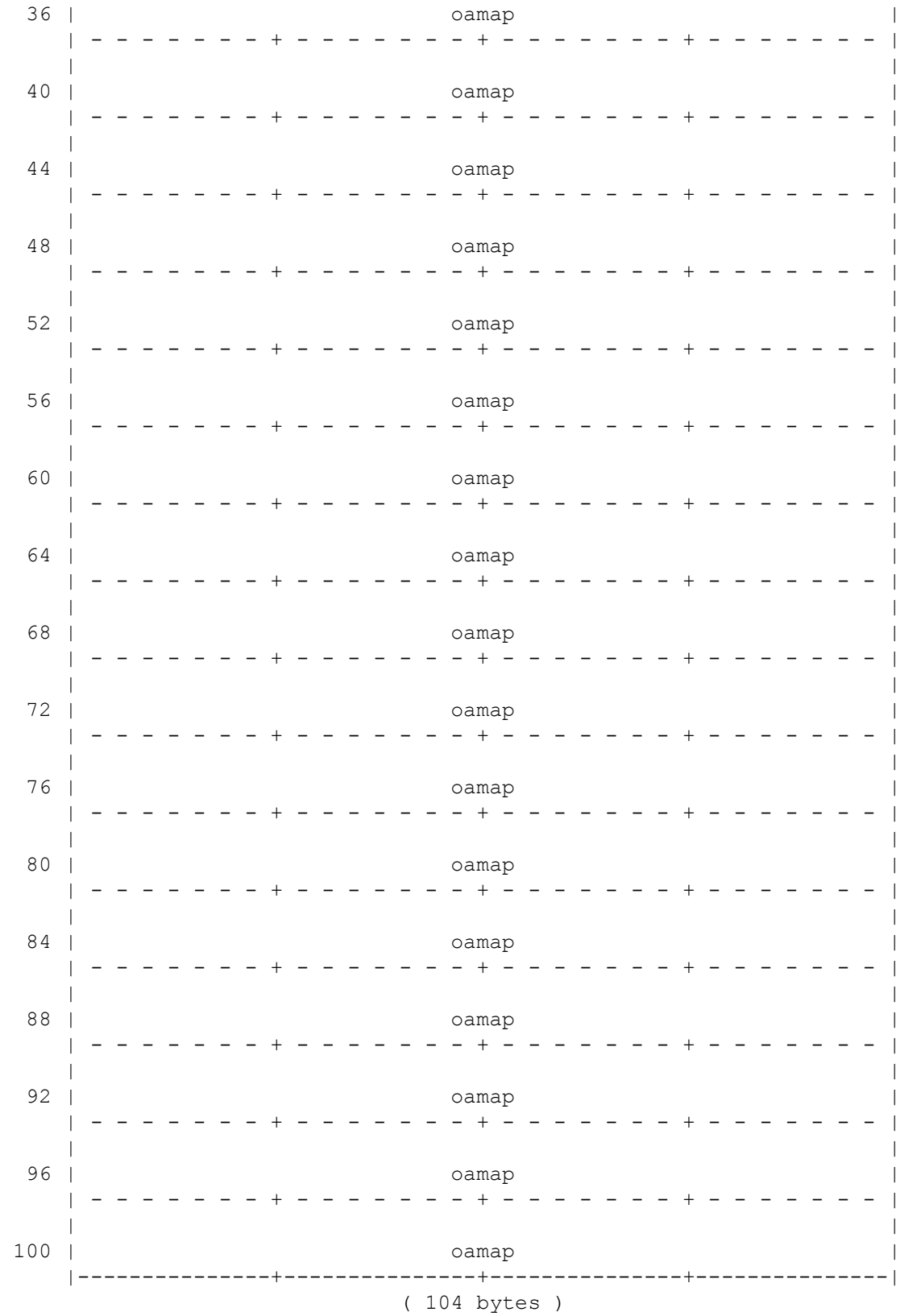


## 4. Population Rules for RLb900nb

**Relation Description** Blocking 900 calls for LEC cards NPA based body table. This relation indicates whether 900 calls are blocked for LEC card charges. This is based on NPA-NXX of the LEC card.

This relation is populated for domestic generics only.

**Attribute: npa**

**Fullname:** Numbering Plan Area

**Attribute Description:** This is an NPA for which some NXXs have 900 calls blocked for LEC card charges as indicated in the head table RLb900nh.

**Attribute: oamap[*]**

**Fullname:** OA Map Word xx

**Attribute Description:** Each OA map word xx gives block state for 32 NXXs.

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# B900NH

## 1. Description

This relation indicates whether 900 calls are blocked for charges to a LEC card. This is based on NPA or NPA-NXX of the LEC calling card number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
B900NH      relid = 1876  DBSTATIC   DBACC_LIN   DBPRAM    FG      NULL
     blkdummy    DMUCHAR      (uchar)     <--- key
     oaff1       DMUNS8       (ushort: 8)
     oaff2       DMUSHORT     (ushort)
     oamap00     DMOAH32      (ulong)
     oamap01     DMOAH32      (ulong)
     oamap02     DMOAH32      (ulong)
     oamap03     DMOAH32      (ulong)
     oamap04     DMOAH32      (ulong)
     oamap05     DMOAH32      (ulong)
     oamap06     DMOAH32      (ulong)
     oamap07     DMOAH32      (ulong)
     oamap08     DMOAH32      (ulong)
     oamap09     DMOAH32      (ulong)
     oamap10     DMOAH32      (ulong)
     oamap11     DMOAH32      (ulong)
     oamap12     DMOAH32      (ulong)
     oamap13     DMOAH32      (ulong)
     oamap14     DMOAH32      (ulong)
     oamap15     DMOAH32      (ulong)
     oamap16     DMOAH32      (ulong)
     oamap17     DMOAH32      (ulong)
     oamap18     DMOAH32      (ulong)
     oamap19     DMOAH32      (ulong)
     oamap20     DMOAH32      (ulong)
     oamap21     DMOAH32      (ulong)
     oamap22     DMOAH32      (ulong)
     oamap23     DMOAH32      (ulong)
     oamap24     DMOAH32      (ulong)
     oamap25     DMOAH32      (ulong)
     oamap26     DMOAH32      (ulong)
     oamap27     DMOAH32      (ulong)
     oamap28     DMOAH32      (ulong)
     oamap29     DMOAH32      (ulong)
     oamap30     DMOAH32      (ulong)
     oamap31     DMOAH32      (ulong)
     oamap32     DMOAH32      (ulong)
```

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```
    oamap33     DMOAH32      (ulong)
    oamap34     DMOAH32      (ulong)
    oamap35     DMOAH32      (ulong)
    oamap36     DMOAH32      (ulong)
    oamap37     DMOAH32      (ulong)
    oamap38     DMOAH32      (ulong)
    oamap39     DMOAH32      (ulong)
    oamap40     DMOAH32      (ulong)
    oamap41     DMOAH32      (ulong)
    oamap42     DMOAH32      (ulong)
    oamap43     DMOAH32      (ulong)
    oamap44     DMOAH32      (ulong)
    oamap45     DMOAH32      (ulong)
    oamap46     DMOAH32      (ulong)
    oamap47     DMOAH32      (ulong)
    oamap48     DMOAH32      (ulong)
    oamap49     DMOAH32      (ulong)
        User, Compacted and Stored Tuple Layout B900NH
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |               |                               |
 0 |    blkdummy  |     oaff1     |             oaff2             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
 4 |                            oamap00                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
 8 |                            oamap01                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
12 |                            oamap02                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
16 |                            oamap03                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |                            oamap04                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
24 |                            oamap05                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
28 |                            oamap06                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
32 |                            oamap07                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
36 |                            oamap08                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
40 |                            oamap09                            |
   |---------------+---------------+---------------+---------------|
```

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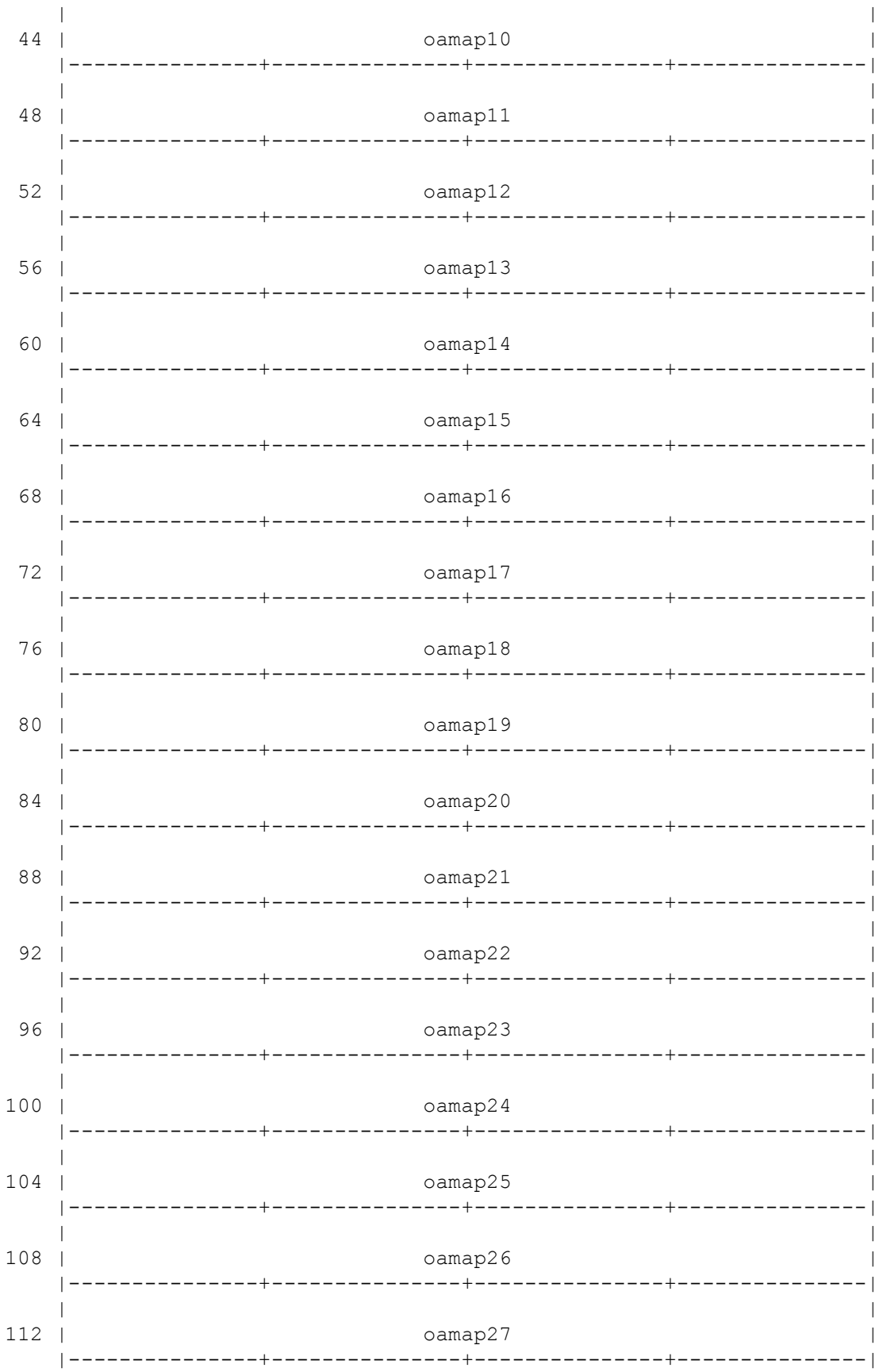


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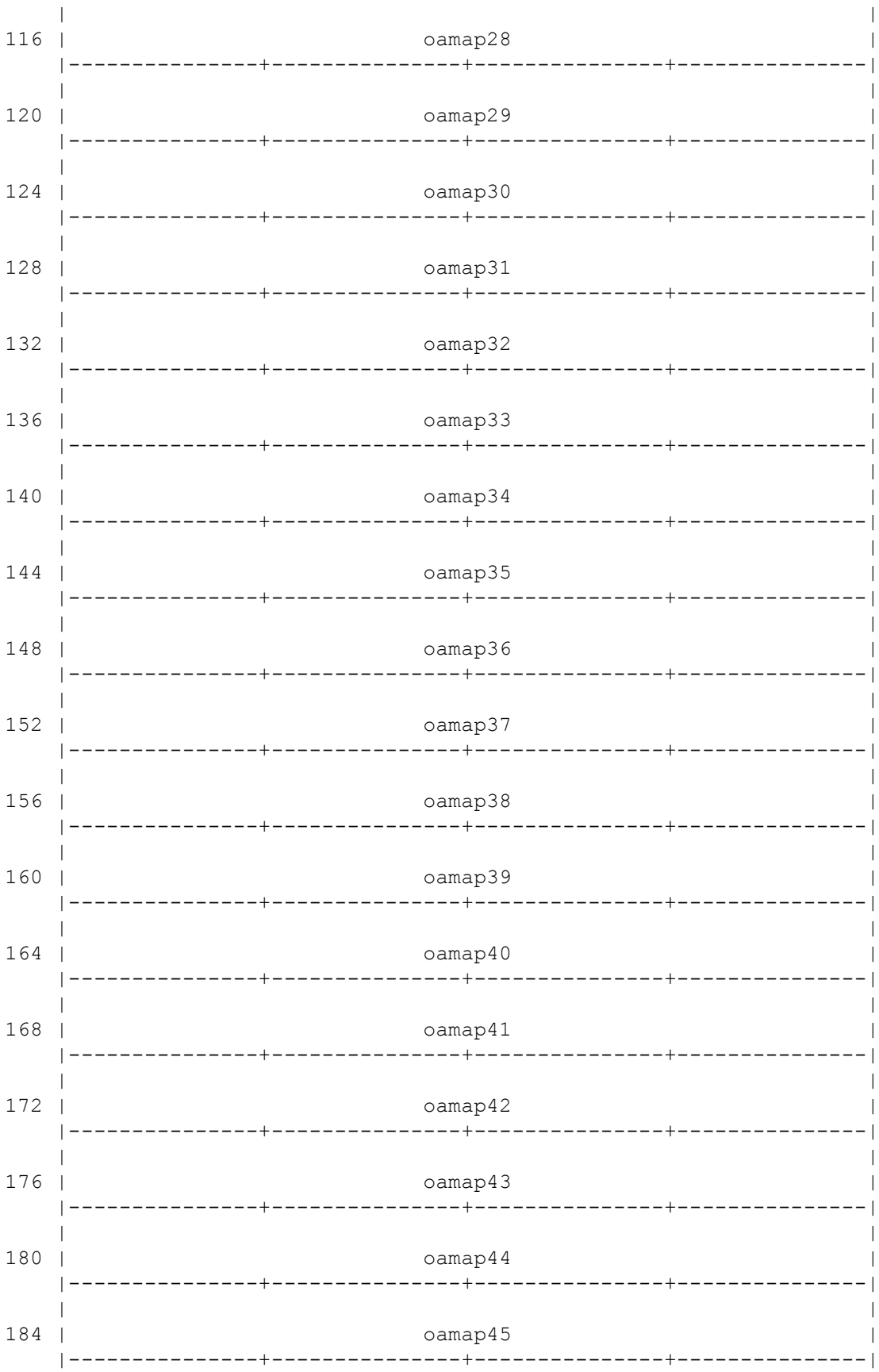


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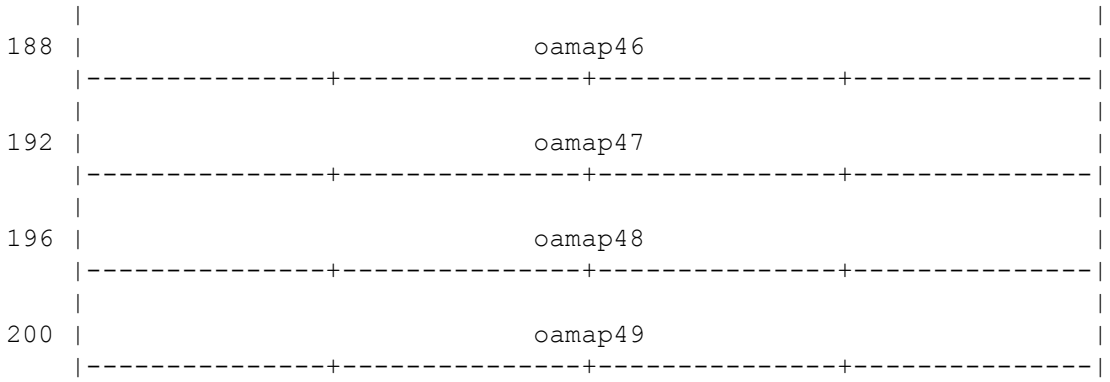


```
                         ( 204 bytes )
domain alB900NH   struct  (4 sub-attributes)
          blkdummy    unsigned char (uchar)
          oaff1       .1.fake      (ushort)
          oaff2       unsigned short (ushort)
          oamap       .2.fake      (array [ 50 ] of unsigned long )
        Structure Layout      alB900NH
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |    blkdummy   |     oaff1     |             oaff2             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |                             oamap                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  8 |                             oamap                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 12 |                             oamap                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 16 |                             oamap                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 20 |                             oamap                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 24 |                             oamap                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 28 |                             oamap                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 32 |                             oamap                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 36 |                             oamap                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 40 |                             oamap                             |
```

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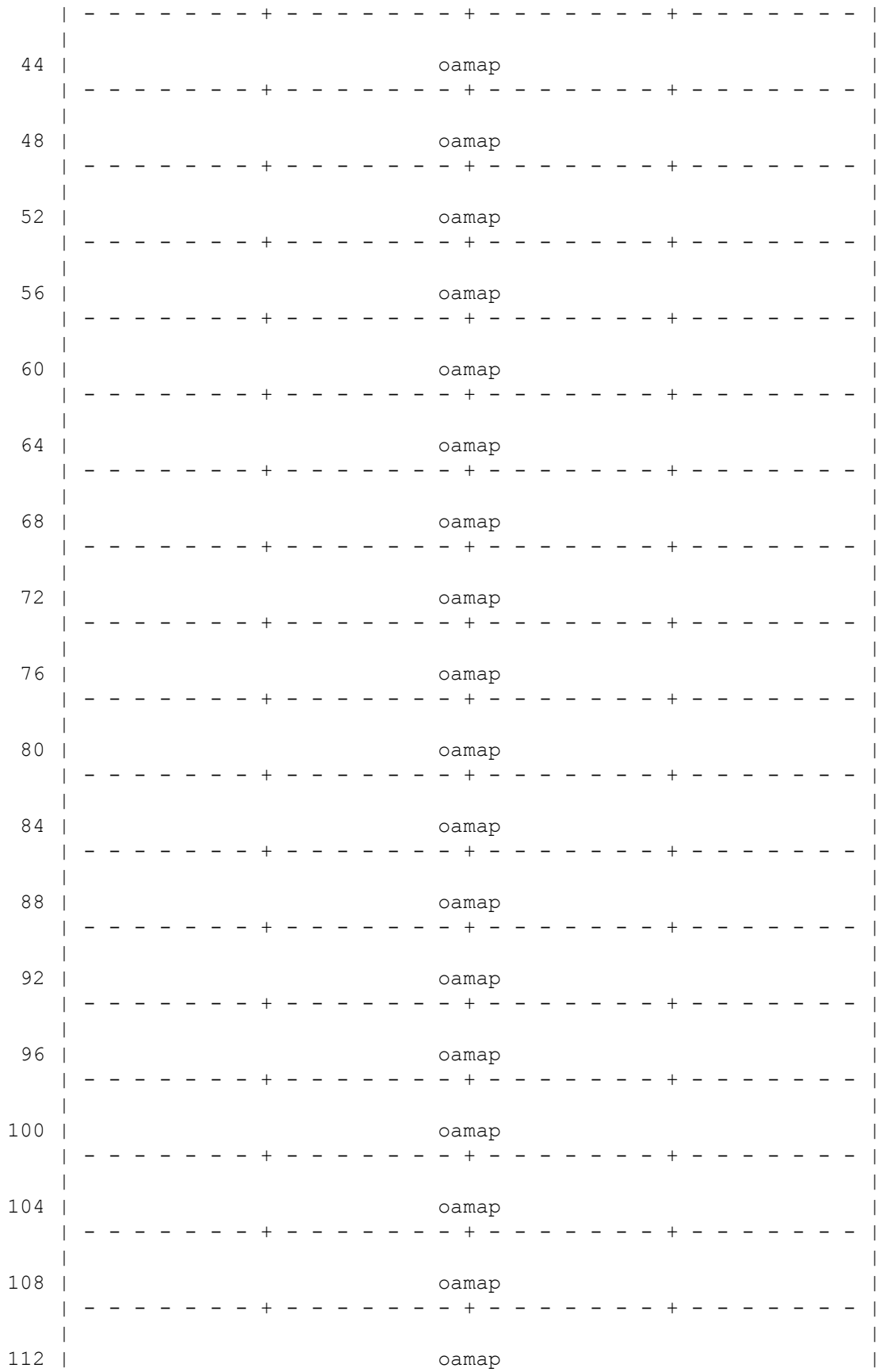


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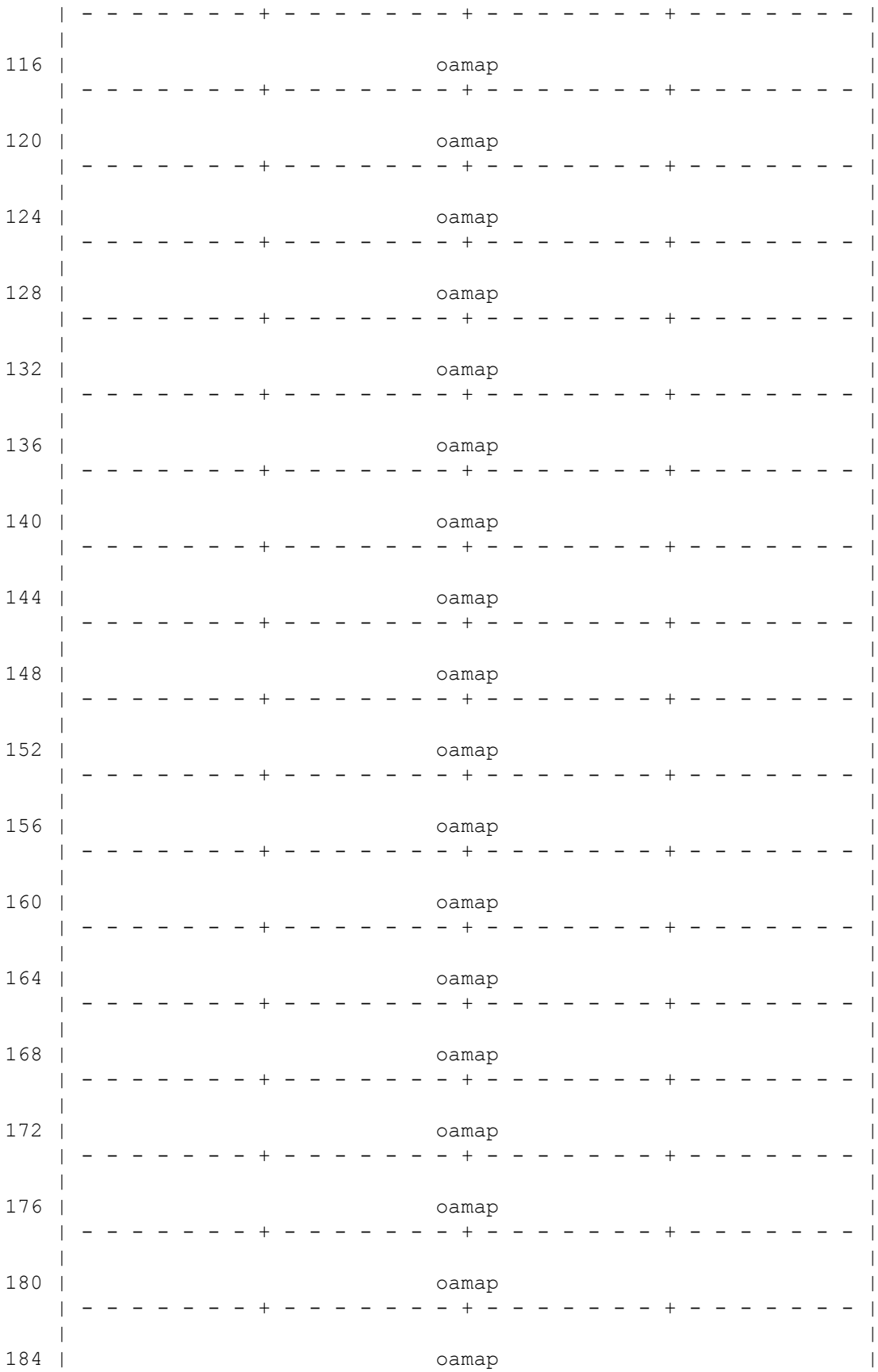


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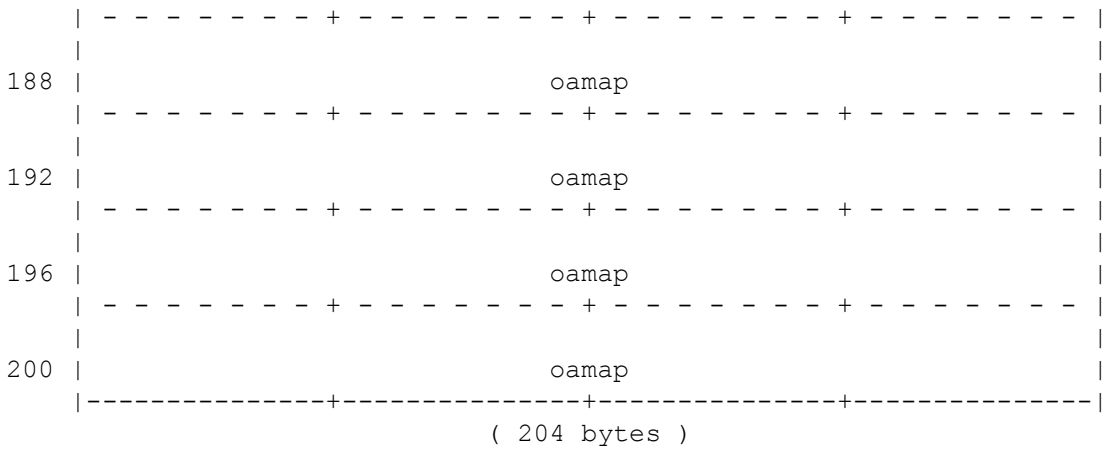


## 4. Population Rules for RLb900nh

**Relation Description** Blocking 900 calls for LEC cards NPA based head table. This relation indicates whether 900 calls are blocked for LEC card charges. This is based on NPA or NPA-NXX of the LEC card.

This relation is populated for domestic generic only.

**Attribute: blkdummy**

**Fullname:** Block 900 Calls Dummy Key

**Attribute Description:** This is a dummy key set to 1.

**Attribute: oaff1**

**Fullname:** Spare Field 1

**Attribute Description:** Spare field for fast features.

**Attribute: oaff2**

**Fullname:** Spare Field 2

**Attribute Description:** Spare field for fast features.

**Attribute: oamap[*]**

**Fullname:** OA Map Word xx

**Attribute Description:** Each OA map word xx gives 900 calls blocking state for 16 NPAs. The allowed values for xx are:

```
OAALW  = 00
OABLK  = 01
OAPBLK = 10
```

(see domain DMBLKSTAT for details).

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# B900RH

## 1. Description

This relation indicates whether 900 calls are blocked for charges to a LEC card. This is based on the RAO of the LEC calling card number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
B900RH      relid = 1874  DBSTATIC   DBACC_LIN   DBPRAM    FG      NULL
     blkdummy    DMUCHAR      (uchar)     <--- key
     oaff1       DMUNS8       (ushort: 8)
     oaff2       DMUSHORT     (ushort)
     oamap00     DMOAH32      (ulong)
     oamap01     DMOAH32      (ulong)
     oamap02     DMOAH32      (ulong)
     oamap03     DMOAH32      (ulong)
     oamap04     DMOAH32      (ulong)
     oamap05     DMOAH32      (ulong)
     oamap06     DMOAH32      (ulong)
     oamap07     DMOAH32      (ulong)
     oamap08     DMOAH32      (ulong)
     oamap09     DMOAH32      (ulong)
     oamap10     DMOAH32      (ulong)
     oamap11     DMOAH32      (ulong)
     oamap12     DMOAH32      (ulong)
     oamap13     DMOAH32      (ulong)
     oamap14     DMOAH32      (ulong)
     oamap15     DMOAH32      (ulong)
     oamap16     DMOAH32      (ulong)
     oamap17     DMOAH32      (ulong)
     oamap18     DMOAH32      (ulong)
     oamap19     DMOAH32      (ulong)
     oamap20     DMOAH32      (ulong)
     oamap21     DMOAH32      (ulong)
     oamap22     DMOAH32      (ulong)
     oamap23     DMOAH32      (ulong)
     oamap24     DMOAH32      (ulong)
         User, Compacted and Stored Tuple Layout B900RH
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |    blkdummy   |     oaff1     |             oaff2             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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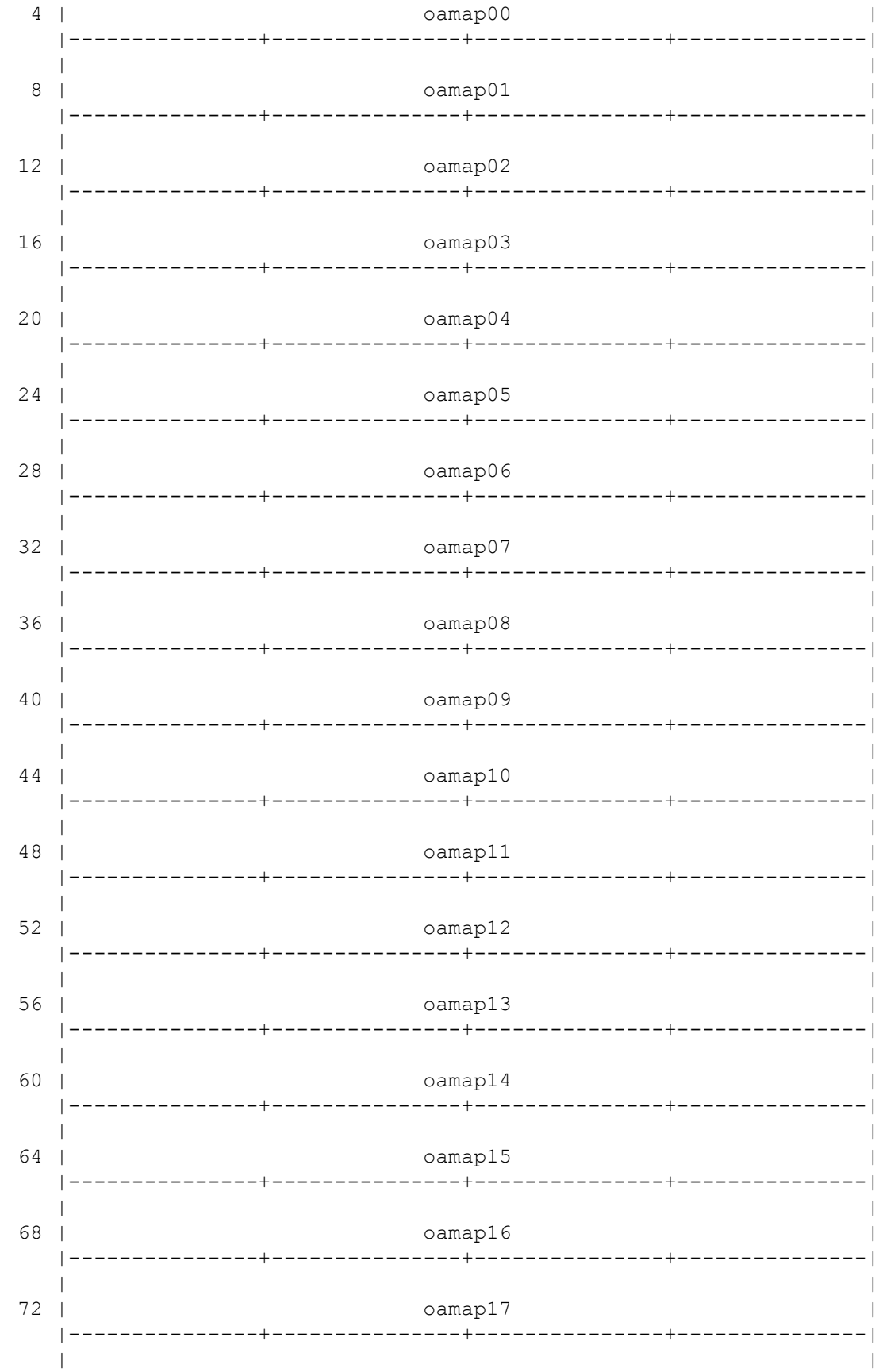


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```
 76 |                            oamap18                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 80 |                            oamap19                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 84 |                            oamap20                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 88 |                            oamap21                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 92 |                            oamap22                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 96 |                            oamap23                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
100 |                            oamap24                            |
    |---------------+---------------+---------------+---------------|
                             ( 104 bytes )
domain alB900RH   struct  (4 sub-attributes)
          blkdummy    unsigned char (uchar)
          oaff1       .1.fake      (ushort)
          oaff2       unsigned short (ushort)
          oamap       .2.fake      (array [ 25 ] of unsigned long )
       Structure Layout      alB900RH
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |    blkdummy   |     oaff1     |             oaff2             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                              oamap                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                              oamap                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                              oamap                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                              oamap                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                              oamap                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 24 |                              oamap                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 28 |                              oamap                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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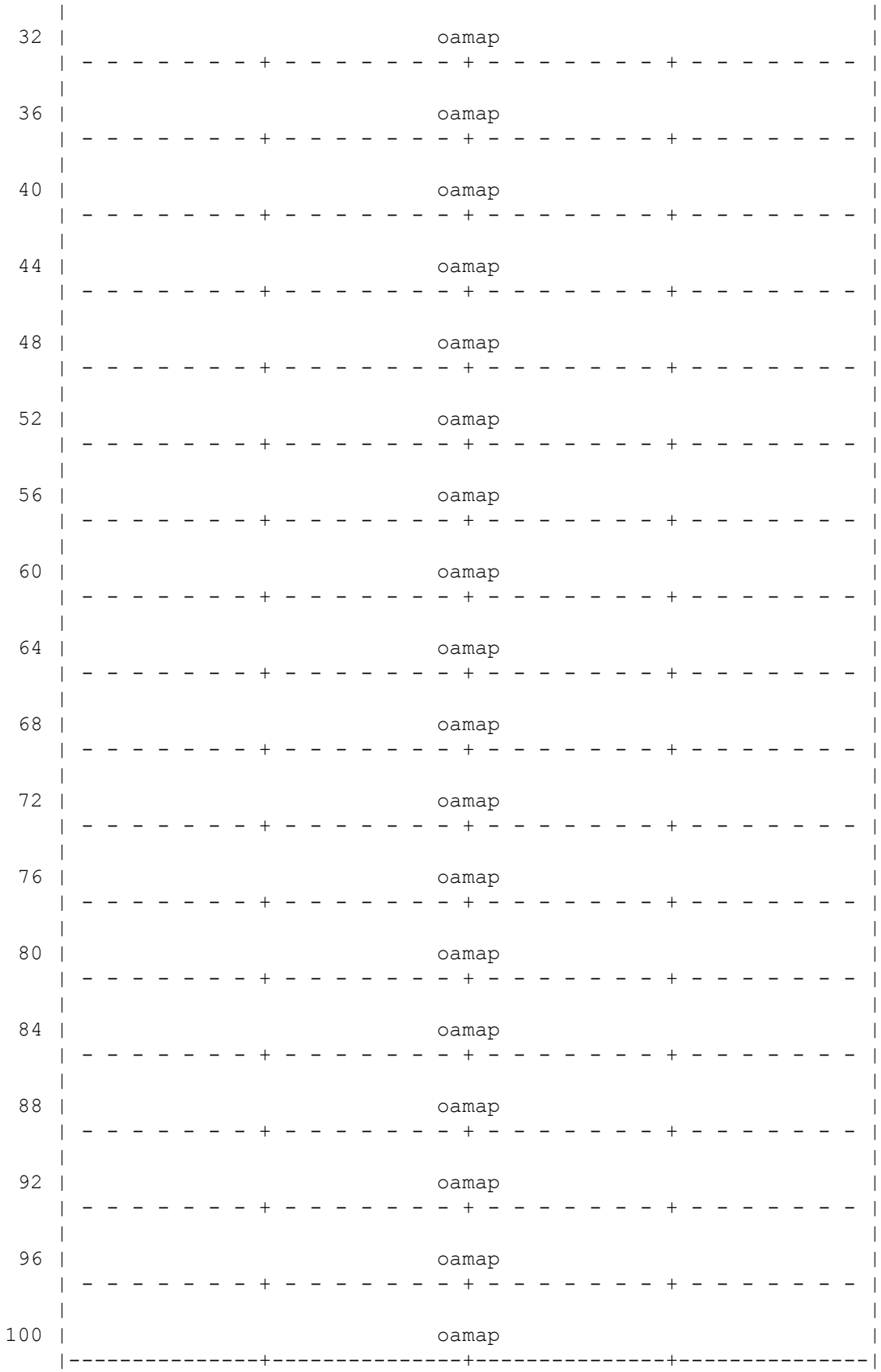


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( 104 bytes )

## 4. Population Rules for RLb900rh

**Relation Description:** Blocking 900 calls for LEC cards RAO based head table. This relation indicates whether 900 calls are blocked for LEC card charges. This is based on RAO of the LEC card.

Since this table is based on the RAO of the LEC card, no body table is required with this relation. The restrictions are made on a RAO basis, and all [0/1]XX of that RAO are inclusive in the restriction.

This relation is populated for domestic generics only.

**Attribute: blkdummy**

**Fullname:** Block 900 Calls Dummy Key

**Attribute Description:** This is a dummy key set to 1.

**Attribute: oaff1**

**Fullname:** Spare Field 1

**Attribute Description:** Spare field for fast features.

**Attribute: oaff2**

**Fullname:** Spare Field 2

**Attribute Description:** Spare field for fast features.

**Attribute: oamap[*]**

**Fullname:** OA Map Word xx

**Attribute Description:** Each OA map word xx gives block state for 32 RAOs.

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# BCAUDIT

## 1. Description

This is a dummy relation used by the Boot Critical audit to hold the SI initialization PRL code.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| permutation type | perm |

## 3. Field Layout

```
BCAUDIT     relid = 2929  DBSTATIC   DBACC_LIN   DBPRAM    LP      RCDATA
     au1          DMUCHAR       (uchar)
     au2          DMUCHAR       (uchar)
     au3          DMUCHAR       (uchar)
     au4          DMUCHAR       (uchar)
     bcaudit      DMUNS4        (ushort: 4) <--- key
 (a) bc1          DMBOOL        (enum: 1)
 (b) bc2          DMBOOL        (enum: 1)
 (c) bc3          DMBOOL        (enum: 1)
 (d) bc4          DMBOOL        (enum: 1)
 (e) bc5          DMBOOL        (enum: 1)
 (f) bc6          DMBOOL        (enum: 1)
 (g) bc7          DMBOOL        (enum: 1)
 (h) bc8          DMBOOL        (enum: 1)
 (i) bc9          DMBOOL        (enum: 1)
 (j) bc10         DMBOOL        (enum: 1)
 (k) bc11         DMBOOL        (enum: 1)
 (l) bc12         DMBOOL        (enum: 1)
 (m) bc13         DMBOOL        (enum: 1)
 (n) bc14         DMBOOL        (enum: 1)
 (o) bc15         DMBOOL        (enum: 1)
 (p) bc16         DMBOOL        (enum: 1)
        User, Compacted and Stored Tuple Layout    BCAUDIT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 0 |      au1      |      au2      |      au3      |      au4      |
   |---------------+---------------+---------------+---------------|
   |       | | | | | | | | | | | | | | | |                           |
 4 |bcaudit|a|b|c|d|e|f|g|h|i|j|k|l|m|n|o|p|***********************|
   |---------------+---------------+---------------+---------------|
                           ( 8 bytes )
```

## 4. Population rules for RLbcaudit

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### Relation Description

RLbcaudit.R (Boot Critical audit)
This file will contain the Boot Critical PRL checks based on the SI code. The contents of this file, PRL, will be extracted from the official/approved RL*R and Gl*R files.

**Attribute:**
bcaudit
**Fullname:**
Boot Critical audit
**Attribute Description:**
Dummy key needed to access the relation

**Attribute:**
bc[*]
**Fullname:**
Dummy Attribute
**Attribute Description:**

Dummy attribute
**Attribute:**
au[*]
**Fullname:**
Dummy Attribute
**Attribute Description:**
Dummy attribute

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# BCL_CF

## 1. Description

Bulk calling line identification constructed feature - used in SM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 2 |

## 3. Field Layout

```
BCL_CF      relid = 1856  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     feat_id     DMFID        (ushort: 10)     <--- key
  (a) ama_rec    DMBOOL       (enum: 1)
  (b) incl_date  DMBOOL       (enum: 1)
  (c) filtr_op   DMBOOL       (enum: 1)
  (d) spare1     DMBOOL       (enum: 1)
  (e) spare2     DMBOOL       (enum: 1)
  (f) spare3     DMBOOL       (enum: 1)
        User and Compacted Tuple Layout     BCL_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   | | | | | | |                               |
  0 |      feat_id      |a|b|c|d|e|f|*******************************|
    |---------------+---------------+---------------+---------------|
                             ( 4 bytes )
     feat_id     DMFID        (ushort: 10)     <--- key
  (a) ama_rec    DMBOOL       (enum: 1)
  (b) incl_date  DMBOOL       (enum: 1)
  (c) filtr_op   DMBOOL       (enum: 1)
  (d) spare1     DMBOOL       (enum: 1)
  (e) spare2     DMBOOL       (enum: 1)
  (f) spare3     DMBOOL       (enum: 1)
          Stored Tuple Layout   BCL_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   | | | | | | |                               |
  0 |      feat_id      |a|b|c|d|e|f|*******************************|
    |---------------+---------------+---------------+---------------|
                           ( 2 bytes )
```

## 4. Population Rules for RLbcl_cf

**Relation Description** Bulk calling line identification constructed feature. This relation gives LASS bulk calling line identification (BCLID) constructed feature information used in the SM. This information is used by call processing only. BCLID is a local area signaling service (LASS) that allows private branch exchange (PBX) with or without

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direct inward dialing (DID), multiline hunt group (MLHG), and BRCS/Centrex groups and/or lines to receive call-related information on calls received from outside the PBX, MLHG, or BRCS/Centrex group. Information on intragroup calls can optionally be provided to BCLID subscribers. The BCLID information includes:

(1) The calling directory number (DN) - set to 'P' if LASS privacy indicator is set, and set to 'O', if unavailable.

(2) The calling line multistatus - set to 'M' (for multi), if the true calling DN cannot be identified (such as, multiparty, PBX, etc.), otherwise set to 'T' for true DN. This multistatus indicator will be set to 'B' if Billing number is provided instead of calling number.

(3) Date (Day and Month) - provided as an option.

(4) The time the call was received - hours, minutes, and seconds.

(5) The called DN - replaced by port/terminal number, and group identifier of called party, if multiline hunt group.

(6) Busy/idle status of called DN - if it cannot be determined that the called DN is busy (such as, PBX), the status is always set to idle.

For interoffice calls, BCLID will require use of common channel signaling (CCS) so that the calling party information can be provided by the originating switch. The data is transmitted from the terminating switch to the user's customer premise equipment (CPE) shortly after each call is received. Such CPE may include computer terminals, minicomputers, magnetic tape devices or related equipment, that will process and provide display or storage of the transmitted BCLID data. The data is transmitted to the CPE over a dedicated data channel (application processor interface (API)) using 3A-Translator or directly to an Application Processor. The transmission does not affect completion of any calls.

This is the initial offering of BCLID. The BCLID software was introduced in the 5E8 generic and resides in the LASS loadable package.

**Attribute: feat_id**

**Fullname:** Feature ID

**Attribute Description:** A BRCS feature ID consists of a unique identifier. For LASS Bulk Calling Line IDentification feature, the modular feature type is MFBCL which is an enumeration type in DMmftype.

**Attribute: ama_rec**

**Fullname:** Billing Type

**Attribute Description:** Type of billing to be performed. This billing can be done on flat rate or usage sensitive basis according to how the subscribing user prefers to be billed or how the service provider decides it will bill if the feature is universally available. If ama_rec is set to DBYES, then the billing will be done on a usage sensitive basis whereas if it is set to DBNO, the billing will be done on a flat rate basis.

**Attribute: incl_date**

**Fullname:** Include Date Option

**Attribute Description:** This is an enumeration of DMbool which is used to indicate whether the date will be included in the BCLID message. If this attribute is set to DBYES, then the date will be included in the BCLID message.

**Attribute: filtr_op**

**Fullname:** Filter Option

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**Attribute Description:** This is an enumeration of DMbool which is used to indicate whether this feature generates a message for intra-terminal group calls. If this attribute is set to DBYES, then the BCLID messages are sent for calls originated outside of the terminal group and no BCLID messages will be generated for call originated inside the same terminal group of the BCLID termination. Otherwise, if the filter option is set to DBNO then BCLID will generate a message for every incoming call (from inside or outside the terminal group) to this terminal group.

**Attribute: spare1**

**Fullname:** Spare Field Attribute

**Attribute Description:** Spare attribute.

**Attribute: spare2**

**Fullname:** Spare Field Attribute

**Attribute Description:** Spare attribute.

**Attribute: spare3**

**Fullname:** Spare Field Attribute

**Attribute Description:** Spare attribute.

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# BCL_GRP

## 1. Description

The bclid group relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 512 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
BCL_GRP     relid = 1854  DBSTATIC   DBACC_HASH  DBPRAM    LPFR    RCMAP
     bcgpid       DMFACID       (ushort)     <--- key
     bcid         DMUNS16       (ushort)
     apid         DMAPSITE      (ushort: 8)
     alt_apid     DMAPZSITE     (ushort: 8)
     spare7       DMUNS8        (ushort: 8)
 (a) grpactive    DMBOOL        (enum: 1)
 (b) bcldn10      DMBOOL        (enum: 1)
 (c) spare1       DMBOOL        (enum: 1)
 (d) spare2       DMBOOL        (enum: 1)
 (e) spare3       DMBOOL        (enum: 1)
 (f) spare4       DMBOOL        (enum: 1)
 (g) spare5       DMBOOL        (enum: 1)
 (h) spare6       DMBOOL        (enum: 1)
         User, Compacted and Stored Tuple Layout    BCL_GRP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             bcgpid            |              bcid             |
    |---------------+---------------+---------------+---------------|
    |               |               |               | | | | | | | | |
  4 |      apid     |    alt_apid   |     spare7    |a|b|c|d|e|f|g|h|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLbcl_grp

**Relation Description**

```
Bulk calling line identification group relation
```

This relation provides the bulk Calling Line Identification (BCLID) group parameter data.

The Application Processor (AP) will automatically receive information whenever a call terminates to any member of this group. A Business Customer ID (BCID) must exists in order to assign BCLID.

**Attribute: bcgpid**

**Fullname:** Bulk calling line identification group ID

**Attribute Description:** The BCLID group ID is an identifier resulting from the conversion from an 8

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character BCLID group name. The BCLID group name is an identifier with a class of FACBCL and a subclass of SCL_NULL.

**Attribute: apid**

**Fullname:** Application processor ID (APID)

**Attribute Description:** Applications processor ID specifies the destination AP that messages are sent regarding incoming calls as to the members associated with this BCLID group.

**Attribute: alt_apid**

**Fullname:** Alternate application processor ID

**Attribute Description:** Alternate application processor ID specifies the alternate destination AP that messages are sent when the primary AP is unavailable to receive messages with regard to incoming calls to the members associated with this BCLID group. A value of zero implies no alternate AP is assigned to this BCLID group.

**Attribute: bcid**

**Fullname:** Business customer ID

**Attribute Description:** Business customer ID for this BCLID group. Messages sent concerning BCLID calls will include this number to identify the user (or business customer) on that AP or alternate APID.

**Attribute: grpactive**

**Fullname:** Group active flag

**Attribute Description:** BCLID group active flag indicates if the BCLID group is active (DBYES) or inactive (DBNO). Active means that all incoming calls to this group will be recorded normally by BCLID. Inactive means that BCLID will not record any of the incoming calls to this group.

**Attribute: bcldn10**

**Fullname:** BCLID 10-digit called party directory number flag

**Attribute Description:** The 10-digit directory number flag indicates if the called party number sent over the AP link must be 10-digits (DBYES), or if the called party number can be both 7 and 10-digits when sent over the AP link (DBNO).

**Attribute: spare1**

**Fullname:** Spare field attribute.

**Attribute Description:** Spare Attribute.

**Attribute: spare2**

**Fullname:** Spare field attribute.

**Attribute Description:** Spare Attribute.

**Attribute: spare3**

**Fullname:** Spare field attribute.

**Attribute Description:** Spare Attribute.

**Attribute: spare4**

**Fullname:** Spare field attribute.

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**Attribute Description:** Spare Attribute.

**Attribute: spare5**

**Fullname:** Spare field attribute.

**Attribute Description:** Spare Attribute.

**Attribute: spare6**

**Fullname:** Spare field attribute.

**Attribute Description:** Spare Attribute.

**Attribute: spare7**

**Fullname:** Spare field attribute.

**Attribute Description:** Spare Attribute.

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# BCL_LTM

## 1. Description

Relation used to obtain the BCLID group ID for a given logical termination port.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 262144 |
| expected number of tuples | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| trigger function | RTrc_lbcl |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
BCL_LTM     relid = 1861  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     bcgpid      DMFACID      (ushort)
     ltm_idx     DMLTM_IDX    (ulong: 16)     <--- key
     bcl_idx     DMBCLDXNB    (ushort: 13)
 (a) ltm_type    DMLTM_TYPE   (enum: 1)     <--- key
 (b) ama_rec     DMBOOL       (enum: 1)
 (c) spare1      DMBOOL       (enum: 1)
     lead_module  DMMODULE     (ushort: 8)     <--- key
     spare5      DMUNS8       (ushort: 8)
 (d) spare2      DMBOOL       (enum: 1)
 (e) spare3      DMBOOL       (enum: 1)
 (f) spare4      DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout    BCL_LTM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             bcgpid            |            ltm_idx            |
    |---------------+---------------+---------------+---------------|
    |                           | | | |               |               |
  4 |         bcl_idx           |a|b|c|  lead_module  |     spare5    |
    |---------------+---------------+---------------+---------------|
    | | | |                                                         |
  8 |d|e|f|*********************************************************|
    |---------------+---------------+---------------+---------------|
                               ( 12 bytes )
```

## 4. Population Rules for RLbcl_ltm

**Relation Description**

Bulk Calling Line IDentification Logical Termination Ports

This relation maps the terminating port into the group relation and the counts for this port. The mechanism used to link the information is the same used in ICLID. By the use of an extra field bcl_idx we can link the usage sensitive count relation for the terminating port, also using bcgpid as a key, we can link the information contents into

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RLbcl_grp relation and this relation will tell us the APID, BCID, alternate APID for this customer.

**Attribute: ltm_idx**

**Fullname:** Logical Termination Index

**Attribute Description:** Attribute ltm_idx has a domain range that starts with 0. The range in this relation starts with 1. As discussed in RLrc_smidx, the existence of an index implies the value 1 or greater. If no index is defined, RLrc_smidx would contain an ltm_idx value of 0 and no tuple would exist in this relation. Therefore, ltm_idx must be greater than 0 in this relation.

**Attribute: ltm_type**

**Fullname:** Logical Termination Type

**Attribute Description:** This is a logical termination index type.

**Attribute: lead_module**

**Fullname:** Lead Switching Module

**Attribute Description:** Identifies the lead module for this termination.

**Attribute: bcgpid**

**Fullname:** BCLID Group ID

**Attribute Description:** The BCLID group id is an identifier resulting from the conversion from an 8 character BCLID group name. The BCLID group name is an identifier with a class of FACBCL and a subclass of SCL_NULL.

**Attribute: bcl_idx**

**Fullname:** BCLID Index

**Attribute Description:** This is an index used by BCLID to keep track of usage sensitive counts for billing. It will be used to index into the dynamic relation RLbcl_lcnt which will contain the usage sensitive counts for individual DNs. This index is assigned sequentially by RC. RLbcllth relation holds all the indices deleted from this relation to allow the re-use of the indices.

**Attribute: ama_rec**

**Fullname:** Billing Type (usage sensitive or flat rate)

**Attribute Description:** This is a boolean attribute that describes the type of billing for this group. This value is populated from RLbcl_opts for the feature assigned to this group.

**Attribute: spare1**

**Fullname:** Spare field attribute.

**Attribute Description:** Spare Attribute

**Attribute: spare2**

**Fullname:** Spare field attribute.

**Attribute Description:** Spare Attribute

**Attribute: spare3**

**Fullname:** Spare field attribute.

**Attribute Description:** Spare Attribute

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**Attribute: spare4**

**Fullname:** Spare field attribute.

**Attribute Description:** Spare Attribute

**Attribute: spare5**

**Fullname:** Spare field attribute.

**Attribute Description:** Spare Attribute

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# BCL_MHTG

## 1. Description

Relation used to obtain the BCLID group ID for a given MLHG or Trunk Group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 10191 |
| expected number of tuples | 3 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFR |
| application | RCMAP |
| relation type | DBSTATIC |
| trigger function | RTrc_gbcl |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
BCL_MHTG    relid = 1853  DBSTATIC   DBACC_CIND  DBPRAM    LPFR    RCMAP
     billdn      DMBCD_BDN    (array [ 6 ] of char )
     mlhgid      DMCHR2       (array [ 2 ] of char )
     bcgpid      DMFACID      (ushort)
     grpnum      DMGRUPNM     (ushort: 13)     <--- key
 (a) grptype     DMBCLGTYP    (enum: 1)     <--- key
 (b) ama_rec     DMBOOL       (enum: 1)
 (c) spare1      DMBOOL       (enum: 1)
     bcl_fid     DMFID        (ushort: 10)
 (d) spare2      DMBOOL       (enum: 1)
 (e) spare3      DMBOOL       (enum: 1)
     spare4      DMUNS8       (ushort: 8)
     spare5      DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout   BCL_MHTG
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                             billdn                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  4 |             billdn            |             mlhgid            |
    |---------------+---------------+---------------+---------------|
    |                               |                       | | | | |
  8 |             bcgpid            |          grpnum       |a|b|c|
    |---------------+---------------+---------------+---------------|
    |                   | | |       |               |               |
 12 |      bcl_fid      |d|e|*******|     spare4    |     spare5    |
    |---------------+---------------+---------------+---------------|
                            ( 16 bytes )
```

## 4. Population Rules for RLbcl_mhtg

### Relation Description

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Bulk Calling Line IDentification MLHG and Trunk Group Relation

This relation has the information about Multi-Line Hunt Group and Trunk Group. It is SM and CMP redundant.

**Attribute: grpnum**

**Fullname:** Group Number

**Attribute Description:** This attribute has the group number information for a given Multi-Line Hunt Group or Trunk Group.

**Attribute: grptype**

**Fullname:** Group Type

**Attribute Description:** This attribute specifies whether the group is a Multi-Line Hunt Group or if the group is a Trunk Group. This attribute only can accept two 'enum' values, and those values are DBBCLMLHG for Multi-Line Hunt Groups and DBBCLTRKG for Trunk Groups.

**Attribute: bcgpid**

**Fullname:** Bulk Calling Line IDentification Group ID

**Attribute Description:** This number is used as a key to RLbcl_grp relation to get the customer information.

**Attribute: mlhgid**

**Fullname:** Multi-Line Hunt Group ID

**Attribute Description:** This is a 2 character attribute that is used to store the two digits that identify the MLHG in the BCLID message that is sent to the CPE. The values for this attribute range from 00 to 99, or default to a NULL character. This is not an unique value among the BCLID users. This attribute is used to identify the MLHG that generates the BCLID message if two or more of these termination types terminates to the same AP. No automatic assignment is required for this attribute. This attribute exists also in RLrc_pgrprmk relation.

BCLID requires this attribute because this feature exist already in the 1A Switch. This attribute only provide extra information in the BCLID message that is sent to the AP. The user of BCLID may or may not want to assign a value to this attribute.

**Attribute: ama_rec**

**Fullname:** Billing Type (usage sensitive or flat rate)

**Attribute Description**: This is a boolean attribute that describes the type of billing for this group. This value is populated from RLbcl_opts for the feature assigned to this group.

**Attribute: bcl_fid**

**Fullname:** Bulk Calling Line IDentification Feature ID

**Attribute Description:** This attribute is a 10 bit long field that describes the feature ID assigned to this group. It will be used as a key for map other information in RLbcl_cf relation to this group.

**Attribute: billdn**

**Fullname:** Billing DN

**Attribute Description:** This attribute stores the Billing DN number for this group. The number is stored in BCD (Binary Code Decimal) format using 6 bytes. The following diagram shows the layout of the bytes.

```
+---------+---------+---------+---------+---------+-------+
```

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```
|     |     |     |     |     |     |     |     |     |     |        |
| D1  | D2  | D3  | D4  | D5  | D6  | D7  | D8  | D9  | D10 |  CNT   |
|     |     |     |     |     |     |     |     |     |     |        |
+---------+---------+---------+---------+---------+---------+-------+
```

The following is an example of how the data is stored in this field:

DN: (708)-979-3333

```
+-------+-------+-------+-------+-------+-------+-------+
|   |   |   |   |   |   |   |   |   |   |   |       |
| 7 | 0 | 8 | 9 | 7 | 9 | 3 | 3 | 3 | 3 |  10   |
|   |   |   |   |   |   |   |   |   |   |   |       |
+-------+-------+-------+-------+-------+-------+-------+
```

The billing DN is populated based on the following rules:

(1) If the group is a MLHG then the billing DN is equal to the grp_loc and grp_noc attributes in RLrt_mhg relation. This attribute holds the LISTED TN for all cases except when the hunt type is RTH_MUPH or RTH_ISAT. If the hunt type is RTH_MUPH or RTH_ISAT then grp_loc and grp_noc holds SUBTN1.

(2) If the group is a trunk group then the billing DN is taken from RLrctgrprk.billingdn attribute. If the attribute is empty then billing DN must be specified.

**Attribute: spare1**

**Fullname:** Spare field attribute.

**Attribute Description:** Spare Attribute

**Attribute: spare2**

**Fullname:** Spare field attribute.

**Attribute Description:** Spare Attribute

**Attribute: spare3**

**Fullname:** Spare field attribute.

**Attribute Description:** Spare Attribute

**Attribute: spare4**

**Fullname:** Spare field attribute.

**Attribute Description:** Spare Attribute

**Attribute: spare5**

**Fullname:** Spare field attribute.

**Attribute Description:** Spare Attribute

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# BCL_OPTS

## 1. Description

Bulk calling line identification constructed feature options - used in CMP.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application type | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 2 |

## 3. Field Layout

```
BCL_OPTS    relid = 1859  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     feat_id     DMFID        (ushort: 10)     <--- key
 (a) ama_rec     DMBOOL       (enum: 1)
 (b) incl_date   DMBOOL       (enum: 1)
 (c) filtr_op    DMBOOL       (enum: 1)
 (d) spare1      DMBOOL       (enum: 1)
 (e) spare2      DMBOOL       (enum: 1)
 (f) spare3      DMBOOL       (enum: 1)
     bclgpname   DMFACNAME    (array [ 8 ] of char )
         User, Compacted and Stored Tuple Layout   BCL_OPTS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   | | | | | |                                 |
  0 |      feat_id      |a|b|c|d|e|f|           bclgpname             |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
  4 |                           bclgpname                             |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                 |                               |
  8 |           bclgpname             |*******************************|
    |---------------+---------------+---------------+---------------|
                          ( 12 bytes )
```

## 4. Population Rules for RLbcl_opts

**Relation Description** This relation gives LASS bulk calling line identification constructed feature options information used in the CMP for RC/V only.

**Attribute: feat_id**

**Fullname:** Feature ID

**Attribute Description**: A BRCS feature ID consists of a unique identifier. For LASS bulk calling line identification feature, the modular feature type is MFBCL which is an enumeration type in DMmftype.

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**Attribute: ama_rec**

**Fullname:** Billing Type

**Attribute Description:** Type of billing to be performed. This billing can be done on flat rate or usage sensitive basis according to how the subscribing user prefers to be billed or how the service provider decides it will bill if the feature is universally available. If ama_rec is set to DBYES, the billing will be done on a usage sensitive basis whereas if it is set to DBNO, the billing will be done on a flat rate basis.

**Attribute: incl_date**

**Fullname:** Include Date Option

**Attribute Description:** This is an enumeration of DMbool which is used to indicate whether the date will be included in the BCLID message. If this attribute is set to DBYES, then the date will be included in the BCLID message.

**Attribute: filtr_op**

**Fullname:** Filter Option

**Attribute Description:** This is an enumeration of DMbool which is used to indicate whether this feature generates a message for intra-terminal group calls. If this attribute is set to DBYES, then the BCLID messages are sent for calls originated outside of the terminal group and no BCLID messages will be generated for call originated inside the same terminal group of the BCLID termination. Otherwise, if the filter option is set to DBNO then BCLID will generate a message for every incoming call (from inside or outside the terminal group) to this terminal group.

**Attribute: bclgpname**

**Fullname:** Bulk Calling Line IDentification Group ID

**Attribute Description**: The BCLID group name is an character string of 8 characters that holds the default group assigned to each BCLID feature. This group may not exists at the time that this field is populated, but it must be defined at the time that the feature is assigned to any termination. This attribute is only used by RC.

**Attribute: spare1**

**Fullname:** Spare Field Attribute

**Attribute Description:** Spare attribute.

**Attribute: spare2**

**Fullname:** Spare Field Attribute

**Attribute Description:** Spare attribute.

**Attribute: spare3**

**Fullname:** Spare Field Attribute

**Attribute Description:** Spare attribute.

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# BCLLTH

## 1. Description

Relation that stores the bclid index holes for bulk calling line identification billing counts.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| access type | DBACC_CIND |
| memory type | DBDISK |
| distribution | DO |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
BCLLTH      relid = 1864  DBSTATIC   DBACC_CIND  DBDISK    DO      DDBM
     module      DMMODULE     (ushort: 8)     <--- key, not stored
     bcl_idx     DMBCLDXNB    (ushort: 13)     <--- key, not stored
     qid         DMQID        (ushort: 2)     <--- key, not stored
     pred        DMBCLDXNB    (ushort: 13)
     succ        DMBCLDXNB    (ushort: 13)
         User and Compacted Tuple Layout     BCLLTH
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                           |   | |
  0 |     module    |***************|         bcl_idx           |qid|*|
    |---------------+---------------+---------------+---------------|
    |                           |     |                           |     |
  4 |           pred            |*****|            succ          |*****|
    |---------------+---------------+---------------+---------------|
                          ( 8 bytes )
     pred        DMBCLDXNB    (ushort: 13)
     succ        DMBCLDXNB    (ushort: 13)
           Stored Tuple Layout   BCLLTH
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           |     |                           |     |
  0 |           pred            |*****|            succ          |*****|
    |---------------+---------------+---------------+---------------|
                             ( 4 bytes )
```

## 4. Population Rules for RLbcllth

**Relation Description** Bulk calling line identification last bcl_idx hole. This relation is used to store the BCLID bcl_idx index holes for BCLID billing counts in a dual-link list.

The bcl_idx index holes are distributed between four queues. This strategy supports concurrency of four users by allowing up to four users to retrieve indices simultaneously. Each index is stored in the appropriate queue defined by the queue identifier attribute value. The appropriate queue is determined by dividing the index value by four. The remainder of this division represents the appropriate queue identifier value.

For a new office, four tuples will be initialized. Each tuple will contain the highest used index value corresponding to

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a queue. A tuple will be initialized for each queue, queue zero, one, two, and three. The succ and pred attribute values are zero when there are no index holes in the given queue.

**Attribute: module**

**Fullname:** Lead Switching Module

**Attribute Description:** Recent Change keeps separate bcl_idx link lists for each SM. The head cell for each link list is the module number and bcl_idx = 0. RC adds a member to a link list when it is no longer needed. This may be due to a customer no longer subscribing to the BCLID feature. When an bcl_idx is required to be assigned to an ltm_idx on a SM, RC uses the members from the link list.

**Attribute: bcl_idx**

**Fullname:** BCLID Index

**Attribute Description:** This is a sequentially assigned index used by BCLID to keep track of the counts for billing. It will be used to index into the dynamic relation RLbcllcnt which will contain the BCLID counts for ports.

**Attribute: qid**

**Fullname:** Queue Identifier

**Attribute Description:** Queue identifier references one of the four index queues.

**Attribute: pred**

**Fullname:** Predecessor

**Attribute Description:** The predecessor bcl_idx that is the key to the next less significant member of the link list or 0 to indicate no member or last member of the list.

**Attribute: succ**

**Fullname:** Successor

**Attribute Description:** The successor bcl_idx that is the key to the more significant member of the link list or 0 to indicate no member or last member of the list.

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# BFGMATCH

## 1. Description

This relation contains a list of BRCS constructed features (fid only) assigned to a BFG, used in BFG selection during the assignment of a BFG to a line/DN/ MLHG Line.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3840 |
| expected number of tuples | 50 |
| density | 84 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | DBNO |
| corcable relation | DBYES |
| permutation type | un_perm |

## 3. Field Layout

### 3.1 BFGMATCH Field Layout continued.

```
BFGMATCH    relid = 1024  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP


     bfgid       DMRCBFGID    (ushort: 12)      <--- key, not stored
     act         DMRCBFGPR    (ulong: 30)
     ath         DMRCBFGPR    (ulong: 30)
     ras         DMRCBFGPR    (ulong: 30)
     ftent1      DMMCC_FID    (ushort)
     ftent2      DMMCC_FID    (ushort)
     ftent3      DMMCC_FID    (ushort)
     ftent4      DMMCC_FID    (ushort)
     ftent5      DMMCC_FID    (ushort)
     ftent6      DMMCC_FID    (ushort)
     ftent7      DMMCC_FID    (ushort)
     ftent8      DMMCC_FID    (ushort)
     ftent9      DMMCC_FID    (ushort)
     ftent10     DMMCC_FID    (ushort)
     ftent11     DMMCC_FID    (ushort)
     ftent12     DMMCC_FID    (ushort)
     ftent13     DMMCC_FID    (ushort)
     ftent14     DMMCC_FID    (ushort)
     ftent15     DMMCC_FID    (ushort)
     ftent16     DMMCC_FID    (ushort)
     ftent17     DMMCC_FID    (ushort)
     ftent18     DMMCC_FID    (ushort)
     ftent19     DMMCC_FID    (ushort)
     ftent20     DMMCC_FID    (ushort)
     ftent21     DMMCC_FID    (ushort)
     ftent22     DMMCC_FID    (ushort)
     ftent23     DMMCC_FID    (ushort)
     ftent24     DMMCC_FID    (ushort)
     ftent25     DMMCC_FID    (ushort)
```

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```
    ftent26     DMMCC_FID    (ushort)
    ftent27     DMMCC_FID    (ushort)
    ftent28     DMMCC_FID    (ushort)
    ftent29     DMMCC_FID    (ushort)
    ftent30     DMMCC_FID    (ushort)
    tgid        DMUNS16      (ushort)
    idp_gpid    DMIDP_GPID   (ushort)
    ad1_list_id  DMIDP_ADID   (ushort)
    ad2_list_id  DMIDP_ADID   (ushort)
    icrsfg      DMGRUPNM     (ushort: 13)
(a) cwd_dflt    DMCWDOPT     (enum: 3)
    ar_gpid     DMMCC_FID    (ushort)
    ardtgpid    DMMCC_FID    (ushort)
    pf_gpid     DMFACID      (ushort)
    pfdtgpid    DMFACID      (ushort)
(b) dpd_dntr    DMDIGCNT     (uchar: 4)
    pusel_q1    DMUNS16      (ushort)
    pusel_q2    DMUNS16      (ushort)
    pusel_q3    DMUNS16      (ushort)
    pusel_q4    DMUNS16      (ushort)
(c) csv_bchan   DMMAXBCH     (ushort: 2)
(d) csd_bchan   DMMAXBCH     (ushort: 2)
    port_ls_cc  DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    t_pred_q    DMUNS16      (ushort)
    athgpid     DMFACID      (ushort)
    athdtgpid   DMFACID      (ushort)
    acctgpid    DMFACID      (ushort)
    cdtblid     DMFACID      (ushort)
    mdr_gpid    DMFACID      (ushort)
    lcc         DMLCC        (array [ 3 ] of char )
    eds_grpid   DMMDSGRPN    (ushort: 10)
(e) csv_hunt    DMBOOL       (enum: 1)
(f) csd_hunt    DMBOOL       (enum: 1)
(g) csv_fixed   DMBDSLBCH    (enum: 2)
(h) csd_fixed   DMBDSLBCH    (enum: 2)
    rax         DMINDEX      (ushort)
    frl_line    DMARNFRL     (ushort: 5)
(i) alw_mdr     DMBOOL       (enum: 1)
(j) use_alt_frl  DMBOOL       (enum: 1)
    ars_si      DMARSCNIDX   (ushort: 5)
(k) q_alwd      DMBOOL       (enum: 1)
(l) qpriority   DMBOOL       (enum: 1)
(m) un_dpln     DMARSDP      (enum: 2)
    n_way       DMMWN        (enum: 3)
    dpat_caty   DMIDDP_NO    (ushort: 6)
(n) ad1_shared  DMBOOL       (enum: 1)
(o) ad2_shared  DMBOOL       (enum: 1)
(p) pfq_alwd    DMBOOL       (enum: 1)
(q) pfqpriority  DMBOOL       (enum: 1)
(r) moh_act     DMBOOL       (enum: 1)
(s) disp_rstrct  DMCUSTRST    (enum: 1)
(t) cnigi       DMCNIGI      (enum: 2)
```

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```
    dring       DMMCDRING    (enum: 4)
(u) ring_typ    DMMCDRING    (enum: 4)
(v) ring_max    DMACB_MAXR   (enum: 3)
(w) ath_first   DMBOOL       (enum: 1)
(x) ath_ama     DMBOOL       (enum: 1)
(y) ath_mdr     DMBOOL       (enum: 1)
(z) prec_noncoi  DMPP_PREC    (enum: 3)
(A) prec_coi    DMPP_PREC    (enum: 3)
(B) preemptable  DMBOOL       (enum: 1)
(C) impreempt   DMBOOL       (enum: 1)
    coi_gpid    DMCOI_GPID   (ushort: 5)
(D) prec_pkup   DMBOOL       (enum: 1)
(E) forwd_prec  DMBOOL       (enum: 1)
(F) avn_rec     DMBOOL       (enum: 1)
(G) dir_stn     DMBOOL       (enum: 1)
(H) avn_orig    DMBOOL       (enum: 1)
    dnft_cnt    DMFEAT_CNT   (ushort: 5)
(I) def_svc     DMBOOL       (enum: 1)
(J) acrngbktyp  DMMCDRING    (enum: 4)
(K) arrngbktyp  DMMCDRING    (enum: 4)
(L) max_bchan   DMMAXBCH     (ushort: 2)
(M) hotline     DMPP_HOTLN   (enum: 3)
(N) ldst_cw     DMCW_LDC     (enum: 2)
(O) alert_type  DMCWDALERT   (enum: 3)
    feat_cnt    DMFEAT_CNT   (ushort: 5)
(P) cwd_usgsens  DMCWDCONF    (enum: 2)
    asi_gpid    DMFACID      (ushort)
    serv_code   DMBCD5_6     (array [ 4 ] of char )
    ra_code     DMBCD5_6     (array [ 4 ] of char )
    remr_code   DMBCD5_6     (array [ 4 ] of char )
    asi1_code   DMBCD5_6     (array [ 4 ] of char )
    asi2_code   DMBCD5_6     (array [ 4 ] of char )
    asi_sid     DMBCD_BDN    (array [ 6 ] of char )
(Q) asi_ra      DMBOOL       (enum: 1)
(R) ip_dial_bill  DMBOOL       (enum: 1)
(S) ex_bill     DMBOOL       (enum: 1)
(T) ffcf1       DMBOOL       (enum: 1)
(U) ffcf2       DMBOOL       (enum: 1)
(V) ffcf3       DMBOOL       (enum: 1)
(W) ffcf4       DMBOOL       (enum: 1)
(X) tcw         DMBOOL       (enum: 1)
    dir_pu_dn   DMLOCDN      (struct)  <--- compacted
        noc         DMNOC        (ushort: 14)
        digits      DMLOCDIG     (array [ 4 ] of char )
    priv_dn     DMDN15       (struct)  <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
    bill_dn     DMDN         (struct)  <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
    dir_conn_dn  DMDN         (struct) <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
           User Tuple Layout      BFGMATCH
```

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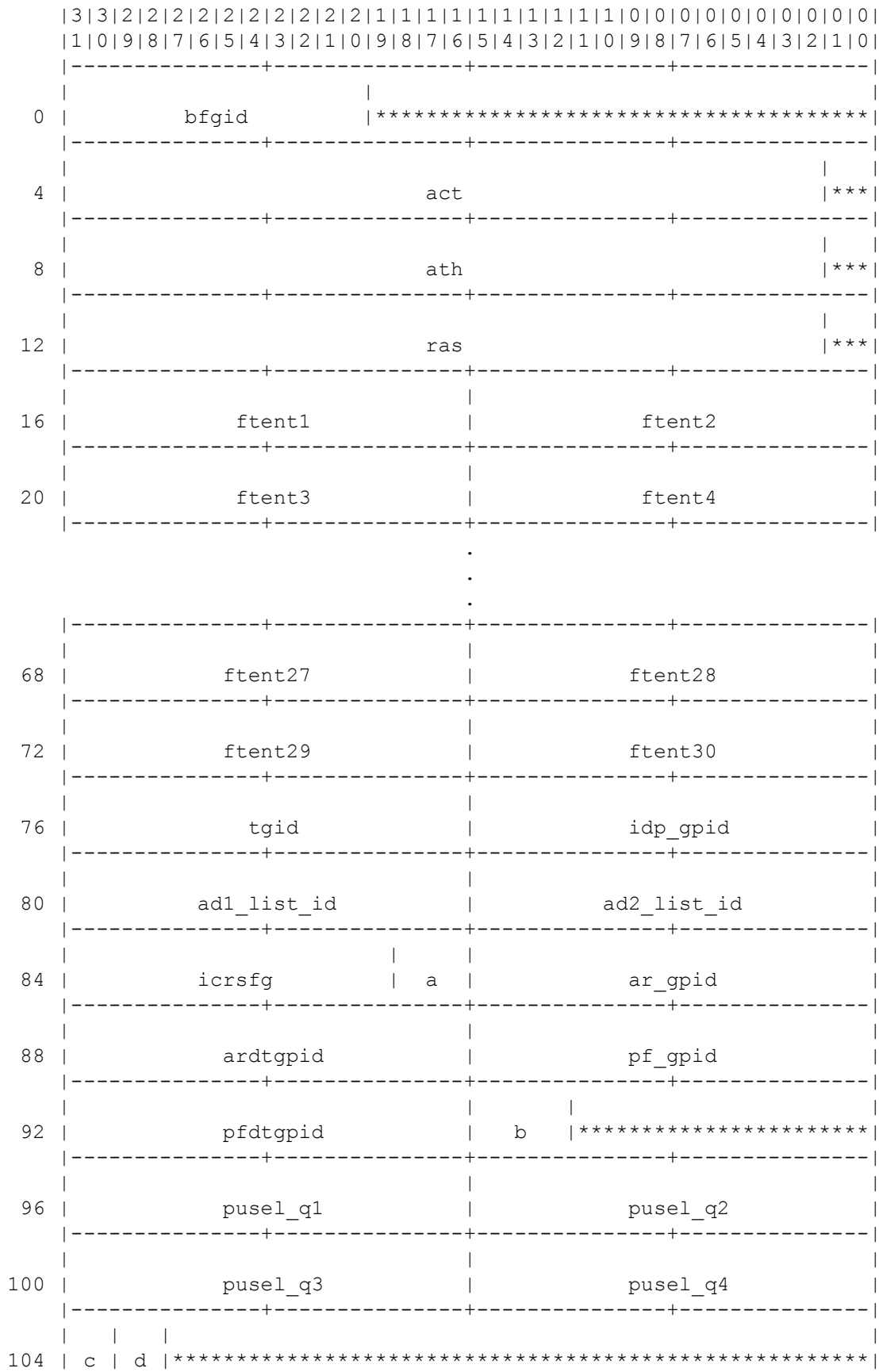


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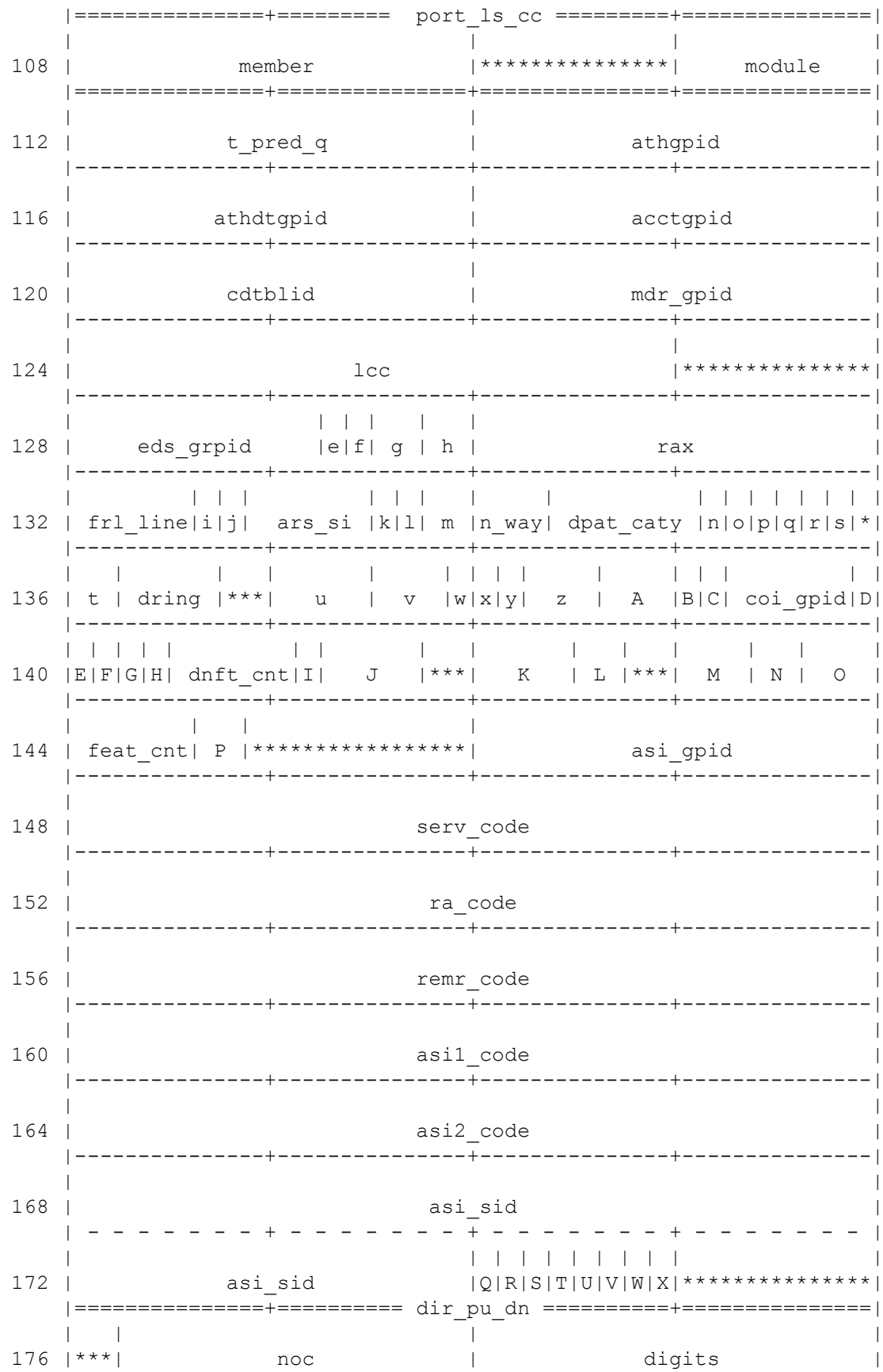
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athdtgpid
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cdtblid
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lcc
eds_grpid
rax
frl_line
ars_si
n_way
dpat_caty
t
dring
coi_gpid
dnft_cnt
feat_cnt
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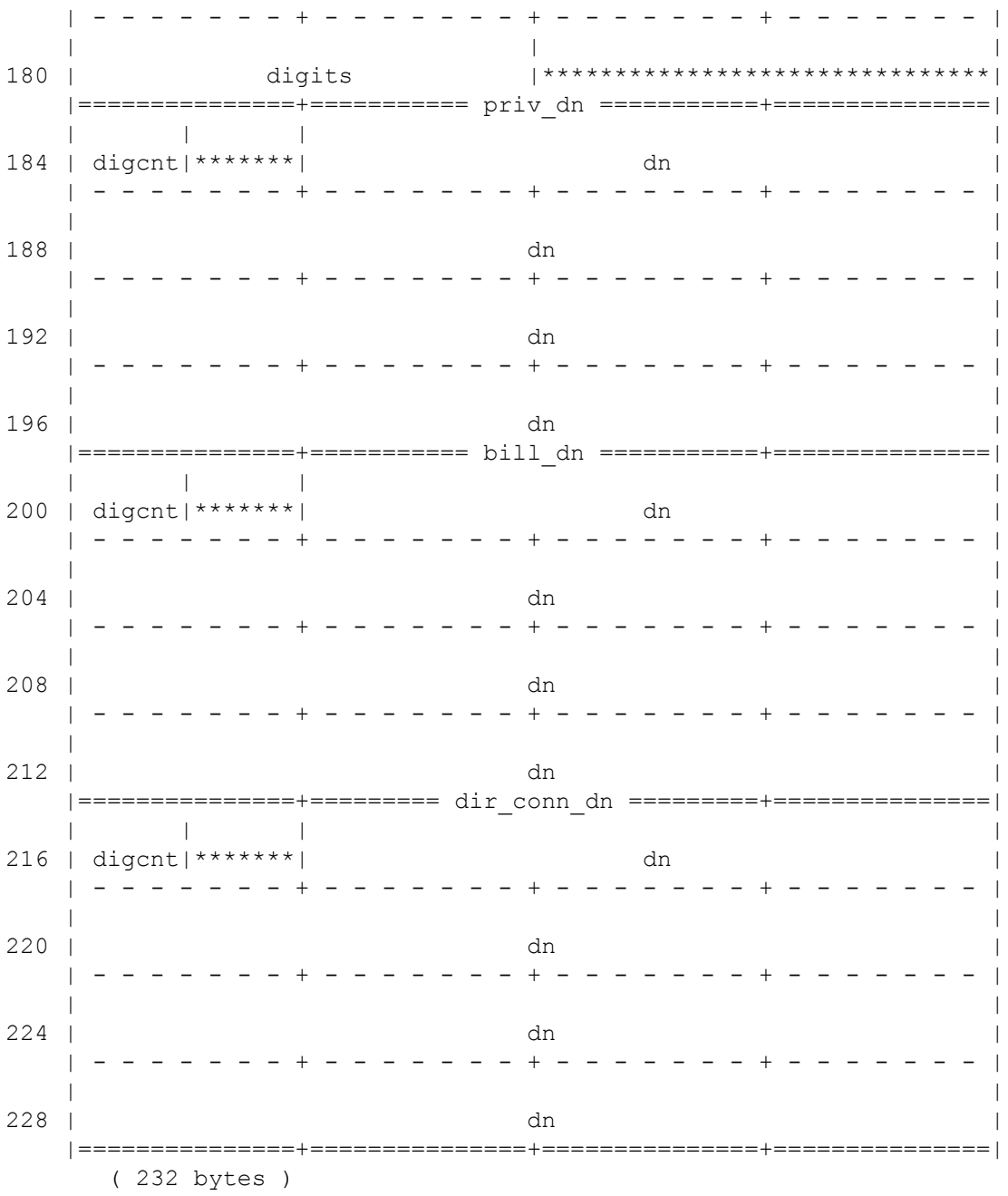
ra_code
remr_code
asi1_code
asi2_code
asi_sid
asi_sid
dir_pu_dn
noc
digits




( 232 bytes )

```
bfgid       DMRCBFGID    (ushort: 12)      <--- key, not stored
act         DMRCBFGPR    (ulong: 30)
ath         DMRCBFGPR    (ulong: 30)
ras         DMRCBFGPR    (ulong: 30)
ftent1      DMMCC_FID    (ushort)
ftent2      DMMCC_FID    (ushort)
ftent3      DMMCC_FID    (ushort)
ftent4      DMMCC_FID    (ushort)
ftent5      DMMCC_FID    (ushort)
ftent6      DMMCC_FID    (ushort)
ftent7      DMMCC_FID    (ushort)
```

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```
    ftent8      DMMCC_FID    (ushort)
    ftent9      DMMCC_FID    (ushort)
    ftent10     DMMCC_FID    (ushort)
    ftent11     DMMCC_FID    (ushort)
    ftent12     DMMCC_FID    (ushort)
    ftent13     DMMCC_FID    (ushort)
    ftent14     DMMCC_FID    (ushort)
    ftent15     DMMCC_FID    (ushort)
    ftent16     DMMCC_FID    (ushort)
    ftent17     DMMCC_FID    (ushort)
    ftent18     DMMCC_FID    (ushort)
    ftent19     DMMCC_FID    (ushort)
    ftent20     DMMCC_FID    (ushort)
    ftent21     DMMCC_FID    (ushort)
    ftent22     DMMCC_FID    (ushort)
    ftent23     DMMCC_FID    (ushort)
    ftent24     DMMCC_FID    (ushort)
    ftent25     DMMCC_FID    (ushort)
    ftent26     DMMCC_FID    (ushort)
    ftent27     DMMCC_FID    (ushort)
    ftent28     DMMCC_FID    (ushort)
    ftent29     DMMCC_FID    (ushort)
    ftent30     DMMCC_FID    (ushort)
    tgid        DMUNS16      (ushort)
    idp_gpid    DMIDP_GPID   (ushort)
    ad1_list_id  DMIDP_ADID   (ushort)
    ad2_list_id  DMIDP_ADID   (ushort)
    icrsfg      DMGRUPNM     (ushort: 13)
(a) cwd_dflt    DMCWDOPT     (enum: 3)
    ar_gpid     DMMCC_FID    (ushort)
    ardtgpid    DMMCC_FID    (ushort)
    pf_gpid     DMFACID      (ushort)
    pfdtgpid    DMFACID      (ushort)
(b) dpd_dntr    DMDIGCNT     (uchar: 4)
    pusel_q1    DMUNS16      (ushort)
    pusel_q2    DMUNS16      (ushort)
    pusel_q3    DMUNS16      (ushort)
    pusel_q4    DMUNS16      (ushort)
(c) csv_bchan   DMMAXBCH     (ushort: 2)
(d) csd_bchan   DMMAXBCH     (ushort: 2)
    port_ls_cc  DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    t_pred_q    DMUNS16      (ushort)
    athgpid     DMFACID      (ushort)
    athdtgpid   DMFACID      (ushort)
    acctgpid    DMFACID      (ushort)
    cdtblid     DMFACID      (ushort)
    mdr_gpid    DMFACID      (ushort)
    lcc         DMLCC        (array [ 3 ] of char )
    eds_grpid   DMMDSGRPN    (ushort: 10)
(e) csv_hunt    DMBOOL       (enum: 1)
(f) csd_hunt    DMBOOL       (enum: 1)
(g) csv_fixed   DMBDSLBCH    (enum: 2)
```

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```
(h) csd_fixed   DMBDSLBCH    (enum: 2)
    rax         DMINDEX      (ushort)
    frl_line    DMARNFRL     (ushort: 5)
(i) alw_mdr     DMBOOL       (enum: 1)
(j) use_alt_frl  DMBOOL       (enum: 1)
    ars_si      DMARSCNIDX   (ushort: 5)
(k) q_alwd      DMBOOL       (enum: 1)
(l) qpriority   DMBOOL       (enum: 1)
(m) un_dpln     DMARSDP      (enum: 2)
    n_way       DMMWN        (enum: 3)
    dpat_caty   DMIDDP_NO    (ushort: 6)
(n) ad1_shared  DMBOOL       (enum: 1)
(o) ad2_shared  DMBOOL       (enum: 1)
(p) pfq_alwd    DMBOOL       (enum: 1)
(q) pfqpriority  DMBOOL       (enum: 1)
(r) moh_act     DMBOOL       (enum: 1)
(s) disp_rstrct  DMCUSTRST    (enum: 1)
(t) cnigi       DMCNIGI      (enum: 2)
    dring       DMMCDRING    (enum: 4)
(u) ring_typ    DMMCDRING    (enum: 4)
(v) ring_max    DMACB_MAXR   (enum: 3)
(w) ath_first   DMBOOL       (enum: 1)
(x) ath_ama     DMBOOL       (enum: 1)
(y) ath_mdr     DMBOOL       (enum: 1)
(z) prec_noncoi  DMPP_PREC    (enum: 3)
(A) prec_coi    DMPP_PREC    (enum: 3)
(B) preemptable  DMBOOL       (enum: 1)
(C) impreempt   DMBOOL       (enum: 1)
    coi_gpid    DMCOI_GPID   (ushort: 5)
(D) prec_pkup   DMBOOL       (enum: 1)
(E) forwd_prec  DMBOOL       (enum: 1)
(F) avn_rec     DMBOOL       (enum: 1)
(G) dir_stn     DMBOOL       (enum: 1)
(H) avn_orig    DMBOOL       (enum: 1)
    dnft_cnt    DMFEAT_CNT   (ushort: 5)
(I) def_svc     DMBOOL       (enum: 1)
(J) acrngbktyp  DMMCDRING    (enum: 4)
(K) arrngbktyp  DMMCDRING    (enum: 4)
(L) max_bchan   DMMAXBCH     (ushort: 2)
(M) hotline     DMPP_HOTLN   (enum: 3)
(N) ldst_cw     DMCW_LDC     (enum: 2)
(O) alert_type  DMCWDALERT   (enum: 3)
    feat_cnt    DMFEAT_CNT   (ushort: 5)
(P) cwd_usgsens  DMCWDCONF    (enum: 2)
    asi_gpid    DMFACID      (ushort)
    serv_code   DMBCD5_6     (array [ 4 ] of char )
    ra_code     DMBCD5_6     (array [ 4 ] of char )
    remr_code   DMBCD5_6     (array [ 4 ] of char )
    asi1_code   DMBCD5_6     (array [ 4 ] of char )
    asi2_code   DMBCD5_6     (array [ 4 ] of char )
    asi_sid     DMBCD_BDN    (array [ 6 ] of char )
(Q) asi_ra      DMBOOL       (enum: 1)
(R) ip_dial_bill  DMBOOL       (enum: 1)
(S) ex_bill     DMBOOL       (enum: 1)
```

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```
(T) ffcf1       DMBOOL       (enum: 1)
(U) ffcf2       DMBOOL       (enum: 1)
(V) ffcf3       DMBOOL       (enum: 1)
(W) ffcf4       DMBOOL       (enum: 1)
(X) tcw         DMBOOL       (enum: 1)
    dir_pu_dn   DMCLOCDN     (struct)  <--- compacted
        noc         DMNOC        (ushort: 14)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
    priv_dn     DMCDN15      (struct)  <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
        dig8        DMUNS4       (ushort: 4)
        dig9        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
    bill_dn     DMCDN        (struct)  <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    dir_conn_dn  DMCDN        (struct) <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
```

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```
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
         Compacted Tuple Layout   BFGMATCH
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                         |                                     |
 0 |          bfgid          |*************************************|
   |---------------+---------------+---------------+---------------|
   |                                                         |   |
 4 |                             act                         |***|
   |---------------+---------------+---------------+---------------|
   |                                                         |   |
 8 |                             ath                         |***|
   |---------------+---------------+---------------+---------------|
   |                                                         |   |
12 |                             ras                         |***|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
16 |              ftent1             |              ftent2           |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
20 |              ftent3             |              ftent4           |
   |---------------+---------------+---------------+---------------|
                                     .
                                     .
                                     .
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
68 |             ftent27             |             ftent28           |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
72 |             ftent29             |             ftent30           |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
76 |               tgid              |             idp_gpid          |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
80 |           ad1_list_id           |          ad2_list_id          |
   |---------------+---------------+---------------+---------------|
   |                           |     |                               |
84 |           icrsfg          |  a  |             ar_gpid           |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
88 |             ardtgpid            |             pf_gpid           |
   |---------------+---------------+---------------+---------------|
   |                                 |       |                       |
92 |             pfdtgpid            |   b   |***********************|
```

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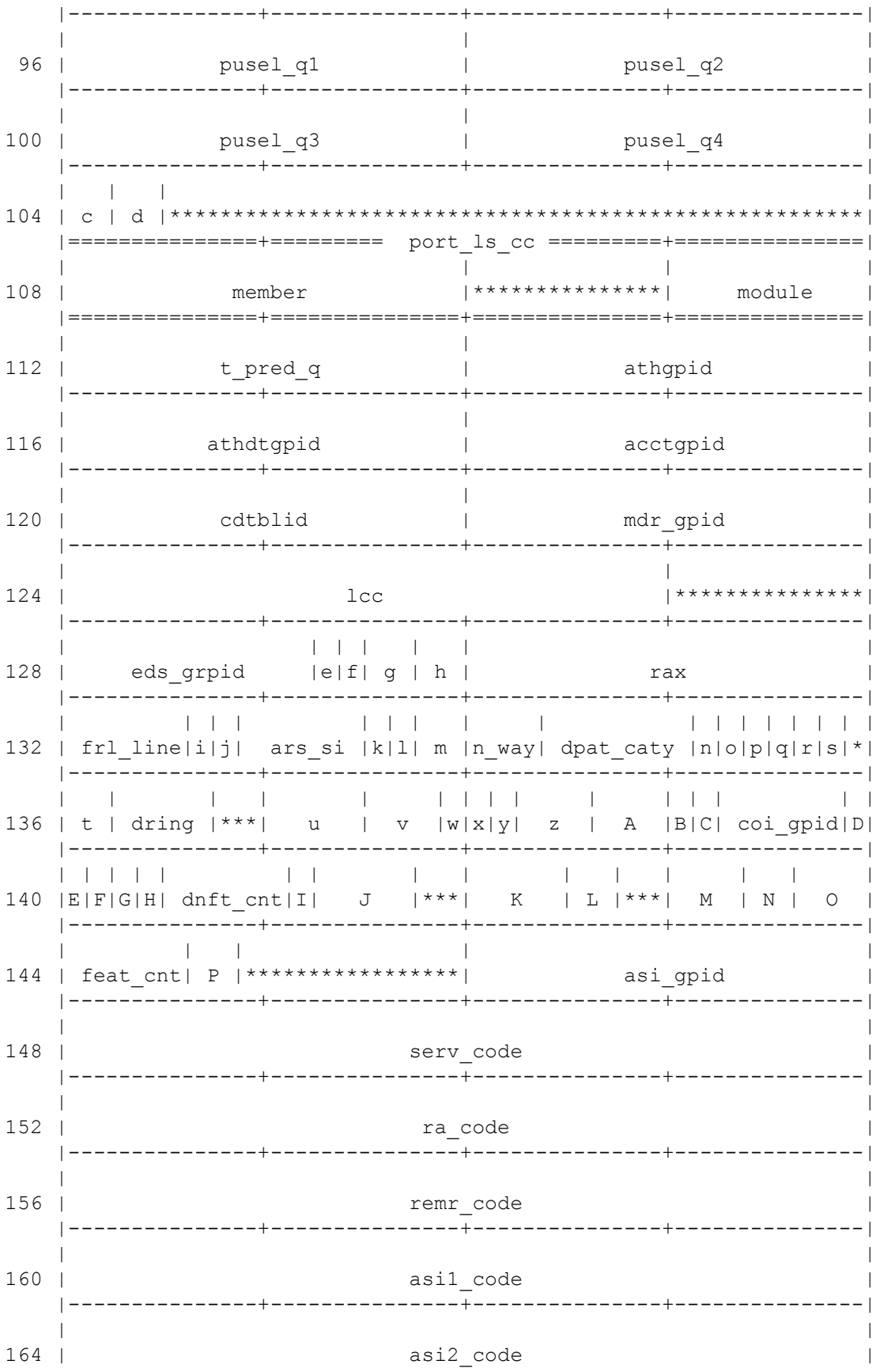
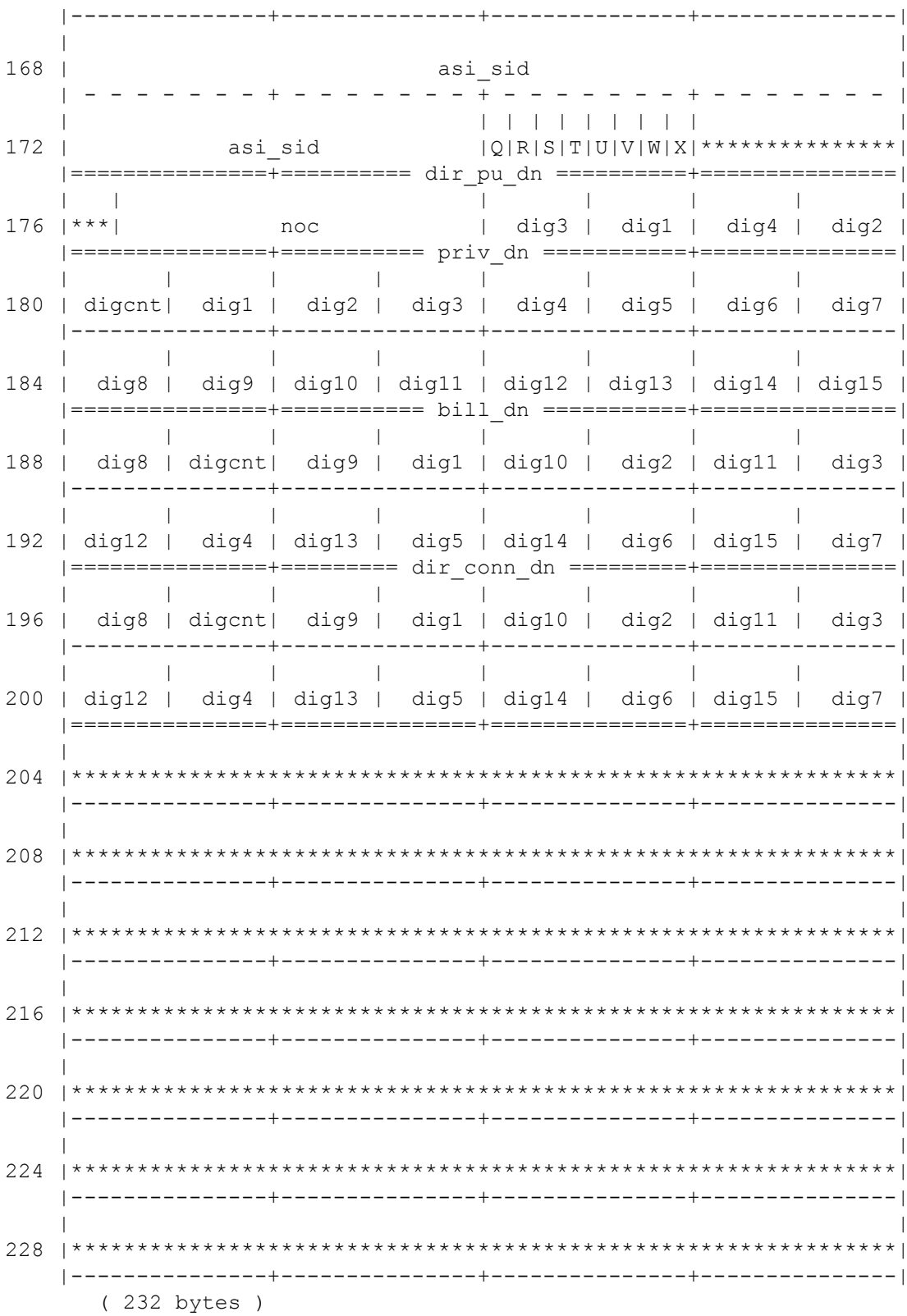

pusel_q1
pusel_q2
pusel_q3
pusel_q4
c
d
port_ls_cc
member
module
t_pred_q
athgpid
athdtgpid
acctgpid
cdtblid
mdr_gpid
lcc
eds_grpid
e
f
g
h
rax
frl_line
i
j
ars_si
k
l
m
n_way
dpat_caty
n
o
p
q
r
s
t
dring
u
v
w
x
y
z
A
B
C
coi_gpid
D
E
F
G
H
dnft_cnt
I
J
K
L
M
N
O
feat_cnt
P
asi_gpid
serv_code
ra_code
remr_code
asi1_code
asi2_code




( 232 bytes )

```
act         DMRCBFGPR    (ulong: 30)
ath         DMRCBFGPR    (ulong: 30)
```

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```
    ras          DMRCBFGPR    (ulong: 30)
    ftent1       DMMCC_FID    (ushort)
    ftent2       DMMCC_FID    (ushort)
    ftent3       DMMCC_FID    (ushort)
    ftent4       DMMCC_FID    (ushort)
    ftent5       DMMCC_FID    (ushort)
    ftent6       DMMCC_FID    (ushort)
    ftent7       DMMCC_FID    (ushort)
    ftent8       DMMCC_FID    (ushort)
    ftent9       DMMCC_FID    (ushort)
    ftent10      DMMCC_FID    (ushort)
    ftent11      DMMCC_FID    (ushort)
    ftent12      DMMCC_FID    (ushort)
    ftent13      DMMCC_FID    (ushort)
    ftent14      DMMCC_FID    (ushort)
    ftent15      DMMCC_FID    (ushort)
    ftent16      DMMCC_FID    (ushort)
    ftent17      DMMCC_FID    (ushort)
    ftent18      DMMCC_FID    (ushort)
    ftent19      DMMCC_FID    (ushort)
    ftent20      DMMCC_FID    (ushort)
    ftent21      DMMCC_FID    (ushort)
    ftent22      DMMCC_FID    (ushort)
    ftent23      DMMCC_FID    (ushort)
    ftent24      DMMCC_FID    (ushort)
    ftent25      DMMCC_FID    (ushort)
    ftent26      DMMCC_FID    (ushort)
    ftent27      DMMCC_FID    (ushort)
    ftent28      DMMCC_FID    (ushort)
    ftent29      DMMCC_FID    (ushort)
    ftent30      DMMCC_FID    (ushort)
    tgid         DMUNS16      (ushort)
    idp_gpid     DMIDP_GPID   (ushort)
    ad1_list_id  DMIDP_ADID   (ushort)
    ad2_list_id  DMIDP_ADID   (ushort)
    icrsfg       DMGRUPNM     (ushort: 13)
(a) cwd_dflt     DMCWDOPT     (enum: 3)
    ar_gpid      DMMCC_FID    (ushort)
    ardtgpid     DMMCC_FID    (ushort)
    pf_gpid      DMFACID      (ushort)
    pfdtgpid     DMFACID      (ushort)
(b) dpd_dntr     DMDIGCNT     (uchar: 4)
    pusel_q1     DMUNS16      (ushort)
    pusel_q2     DMUNS16      (ushort)
    pusel_q3     DMUNS16      (ushort)
    pusel_q4     DMUNS16      (ushort)
(c) csv_bchan    DMMAXBCH     (ushort: 2)
(d) csd_bchan    DMMAXBCH     (ushort: 2)
    port_ls_cc   DMGPORT      (struct)
        member       DMPORT       (ushort)
        module       DMMODULE     (ushort: 8)
    t_pred_q     DMUNS16      (ushort)
    athgpid      DMFACID      (ushort)
    athdtgpid    DMFACID      (ushort)
```

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```
    acctgpid    DMFACID      (ushort)
    cdtblid     DMFACID      (ushort)
    mdr_gpid    DMFACID      (ushort)
    lcc         DMLCC        (array [ 3 ] of char )
    eds_grpid   DMMDSGRPN    (ushort: 10)
(e) csv_hunt    DMBOOL       (enum: 1)
(f) csd_hunt    DMBOOL       (enum: 1)
(g) csv_fixed   DMBDSLBCH    (enum: 2)
(h) csd_fixed   DMBDSLBCH    (enum: 2)
    rax         DMINDEX      (ushort)
    frl_line    DMARNFRL     (ushort: 5)
(i) alw_mdr     DMBOOL       (enum: 1)
(j) use_alt_frl  DMBOOL       (enum: 1)
    ars_si      DMARSCNIDX   (ushort: 5)
(k) q_alwd      DMBOOL       (enum: 1)
(l) qpriority   DMBOOL       (enum: 1)
(m) un_dpln     DMARSDP      (enum: 2)
    n_way       DMMWN        (enum: 3)
    dpat_caty   DMIDDP_NO    (ushort: 6)
(n) ad1_shared  DMBOOL       (enum: 1)
(o) ad2_shared  DMBOOL       (enum: 1)
(p) pfq_alwd    DMBOOL       (enum: 1)
(q) pfqpriority  DMBOOL       (enum: 1)
(r) moh_act     DMBOOL       (enum: 1)
(s) disp_rstrct  DMCUSTRST    (enum: 1)
(t) cnigi       DMCNIGI      (enum: 2)
    dring       DMMCDRING    (enum: 4)
(u) ring_typ    DMMCDRING    (enum: 4)
(v) ring_max    DMACB_MAXR   (enum: 3)
(w) ath_first   DMBOOL       (enum: 1)
(x) ath_ama     DMBOOL       (enum: 1)
(y) ath_mdr     DMBOOL       (enum: 1)
(z) prec_noncoi  DMPP_PREC    (enum: 3)
(A) prec_coi    DMPP_PREC    (enum: 3)
(B) preemptable  DMBOOL       (enum: 1)
(C) impreempt   DMBOOL       (enum: 1)
    coi_gpid    DMCOI_GPID   (ushort: 5)
(D) prec_pkup   DMBOOL       (enum: 1)
(E) forwd_prec  DMBOOL       (enum: 1)
(F) avn_rec     DMBOOL       (enum: 1)
(G) dir_stn     DMBOOL       (enum: 1)
(H) avn_orig    DMBOOL       (enum: 1)
    dnft_cnt    DMFEAT_CNT   (ushort: 5)
(I) def_svc     DMBOOL       (enum: 1)
(J) acrngbktyp  DMMCDRING    (enum: 4)
(K) arrngbktyp  DMMCDRING    (enum: 4)
(L) max_bchan   DMMAXBCH     (ushort: 2)
(M) hotline     DMPP_HOTLN   (enum: 3)
(N) ldst_cw     DMCW_LDC     (enum: 2)
(O) alert_type  DMCWDALERT   (enum: 3)
    feat_cnt    DMFEAT_CNT   (ushort: 5)
(P) cwd_usgsens  DMCWDCONF    (enum: 2)
    asi_gpid    DMFACID      (ushort)
    serv_code   DMBCD5_6     (array [ 4 ] of char )
```

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```
    ra_code     DMBCD5_6     (array [ 4 ] of char )
    remr_code   DMBCD5_6     (array [ 4 ] of char )
    asi1_code   DMBCD5_6     (array [ 4 ] of char )
    asi2_code   DMBCD5_6     (array [ 4 ] of char )
    asi_sid     DMBCD_BDN    (array [ 6 ] of char )
(Q) asi_ra      DMBOOL       (enum: 1)
(R) ip_dial_bill  DMBOOL       (enum: 1)
(S) ex_bill     DMBOOL       (enum: 1)
(T) ffcf1       DMBOOL       (enum: 1)
(U) ffcf2       DMBOOL       (enum: 1)
(V) ffcf3       DMBOOL       (enum: 1)
(W) ffcf4       DMBOOL       (enum: 1)
(X) tcw         DMBOOL       (enum: 1)
    dir_pu_dn   DMCLOCDN     (struct)  <--- compacted
        noc         DMNOC        (ushort: 14)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
    priv_dn     DMCDN15      (struct)  <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
        dig8        DMUNS4       (ushort: 4)
        dig9        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
    bill_dn     DMCDN        (struct)  <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    dir_conn_dn  DMCDN        (struct) <--- compacted
```

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```
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
          Stored Tuple Layout     BFGMATCH
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                       |   |
 0 |                           act                         |***|
   |---------------+---------------+---------------+---------------|
   |                                                       |   |
 4 |                           ath                         |***|
   |---------------+---------------+---------------+---------------|
   |                                                       |   |
 8 |                           ras                         |***|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |             ftent1            |             ftent2            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |             ftent3            |             ftent4            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |             ftent5            |             ftent6            |
   |---------------+---------------+---------------+---------------|
                                   .
                                   .
                                   .
   |---------------+---------------+---------------+---------------|
   |                               |                               |
64 |            ftent27            |            ftent28            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
68 |            ftent29            |            ftent30            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
72 |              tgid             |            idp_gpid           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
76 |          ad1_list_id          |          ad2_list_id          |
   |---------------+---------------+---------------+---------------|
```

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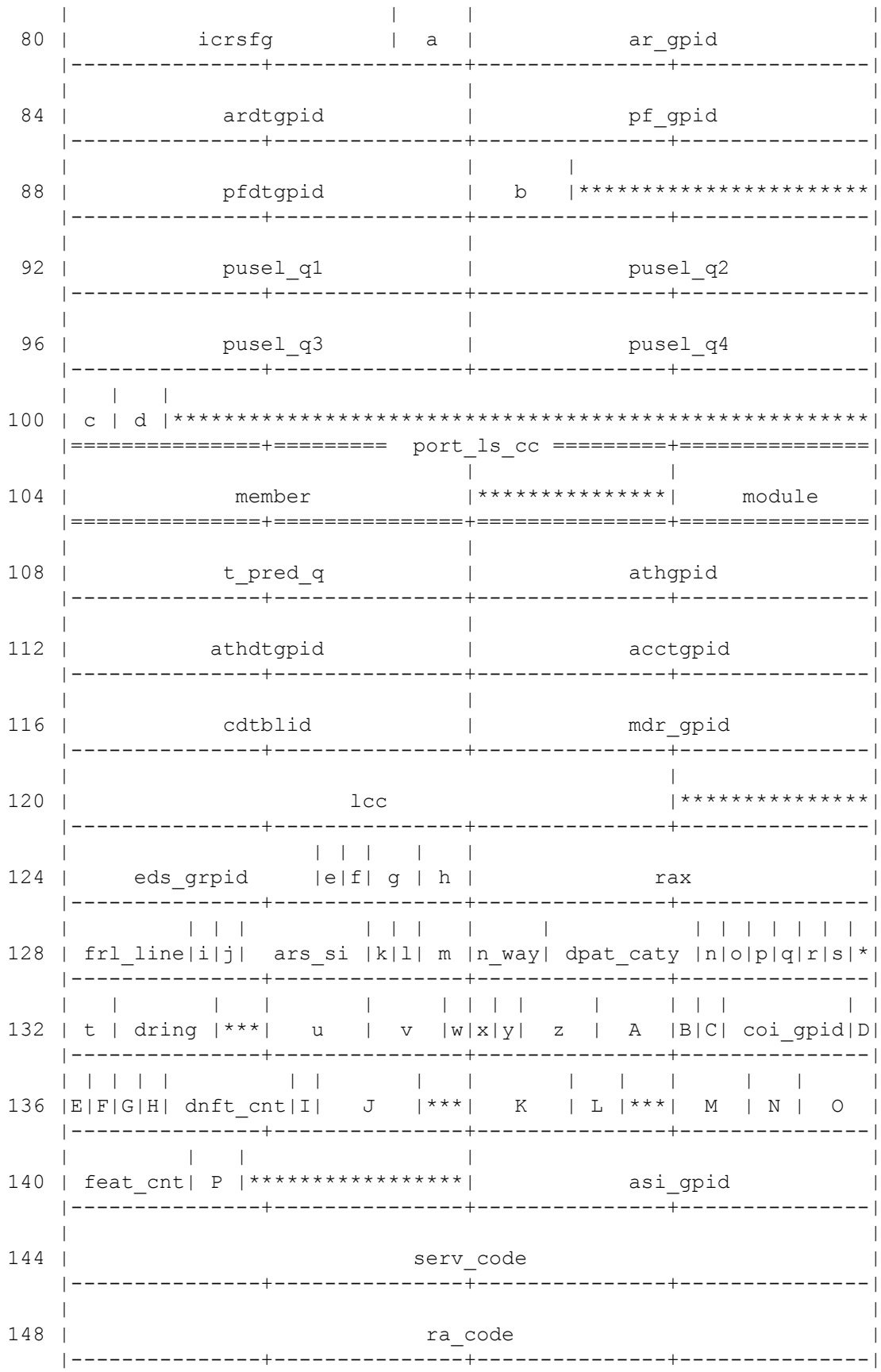


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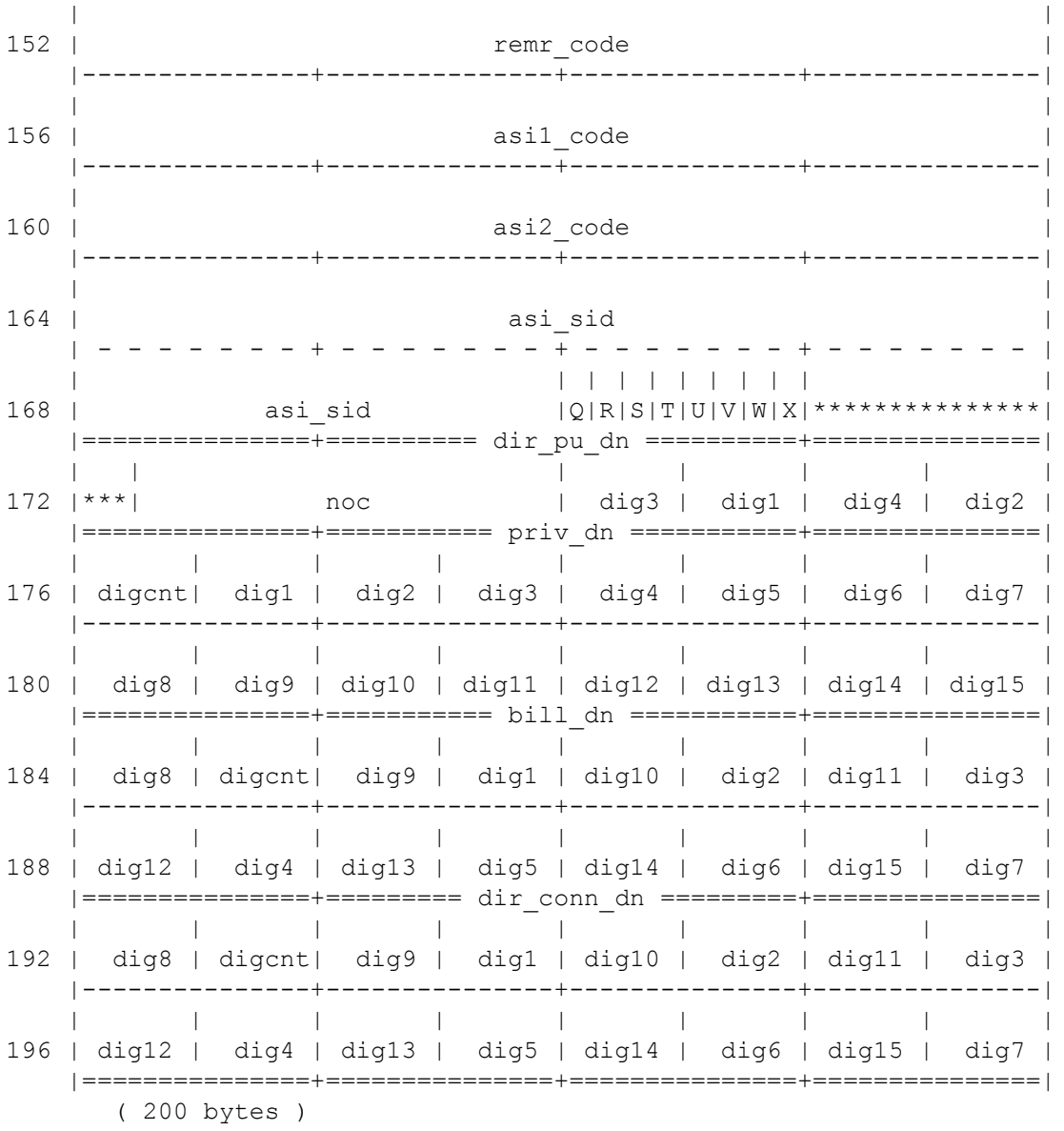

( 200 bytes )

```
domain alBFGMATCH struct  (97 sub-attributes)
         bfgid       .67.fake     (ushort: 12)
         act         .68.fake     (ulong: 30)
         ath         .69.fake     (ulong: 30)
         ras         .70.fake     (ulong: 30)
         ftent       .71.fake     (array [ 30 ] of unsigned short )
         tgid        unsigned short (ushort)
         idp_gpid    unsigned short (ushort)
         ad1_list_id  unsigned short (ushort)
         ad2_list_id  unsigned short (ushort)
         icrsfg      .72.fake     (ushort: 13)
 (a)     cwd_dflt    .21fake      (enum)
         ar_gpid     unsigned short (ushort)
         ardtgpid    unsigned short (ushort)
         pf_gpid     unsigned short (ushort)
```

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```
        pfdtgpid    unsigned short (ushort)
(b)     dpd_dntr    .73.fake     (uchar: 4)
        pusel_q1    unsigned short (ushort)
        pusel_q2    unsigned short (ushort)
        pusel_q3    unsigned short (ushort)
        pusel_q4    unsigned short (ushort)
(c)     csv_bchan   .74.fake     (ushort: 2)
(d)     csd_bchan   .75.fake     (ushort: 2)
        port_ls_cc  .7fake       (struct)
       port_ls_cc  .7fake       (struct)
            member      unsigned short (ushort)
            module      .7.fake      (ushort)
        t_pred_q    unsigned short (ushort)
        athgpid     unsigned short (ushort)
        athdtgpid   unsigned short (ushort)
        acctgpid    unsigned short (ushort)
        cdtblid     unsigned short (ushort)
        mdr_gpid    unsigned short (ushort)
        lcc         .76.fake     (array [ 3 ] of char )
        eds_grpid   .77.fake     (ushort: 10)
(e)     csv_hunt    .0fake       (enum)
(f)     csd_hunt    .0fake       (enum)
(g)     csv_fixed   .18fake      (enum)
(h)     csd_fixed   .18fake      (enum)
        rax         unsigned short (ushort)
        frl_line    .78.fake     (ushort: 5)
(i)     alw_mdr     .0fake       (enum)
(j)     use_alt_frl  .0fake       (enum)
        ars_si      .79.fake     (ushort: 5)
(k)     q_alwd      .0fake       (enum)
(l)     qpriority   .0fake       (enum)
(m)     un_dpln     .12fake      (enum)
        n_way       .15fake      (enum)
        dpat_caty   .80.fake     (ushort: 6)
(n)     ad1_shared  .0fake       (enum)
(o)     ad2_shared  .0fake       (enum)
(p)     pfq_alwd    .0fake       (enum)
(q)     pfqpriority  .0fake       (enum)
(r)     moh_act     .0fake       (enum)
(s)     disp_rstrct  .23fake      (enum)
(t)     cnigi       .24fake      (enum)
        dring       .8fake       (enum)
(u)     ring_typ    .8fake       (enum)
(v)     ring_max    .9fake       (enum)
(w)     ath_first   .0fake       (enum)
(x)     ath_ama     .0fake       (enum)
(y)     ath_mdr     .0fake       (enum)
(z)     prec_noncoi  .16fake      (enum)
(A)     prec_coi    .16fake      (enum)
(B)     preemptable  .0fake       (enum)
(C)     impreempt   .0fake       (enum)
        coi_gpid    .81.fake     (ushort: 5)
(D)     prec_pkup   .0fake       (enum)
(E)     forwd_prec  .0fake       (enum)
```

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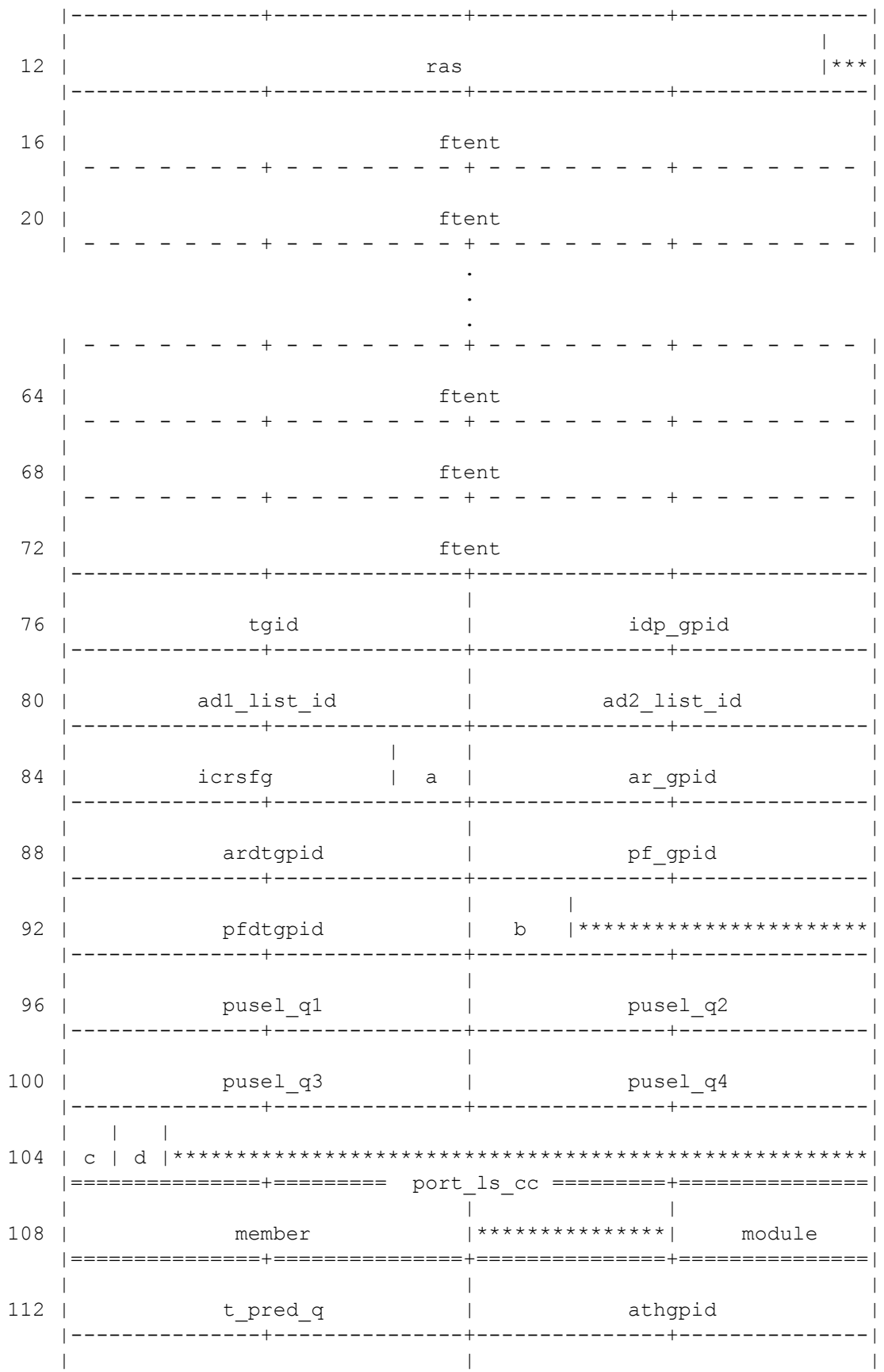
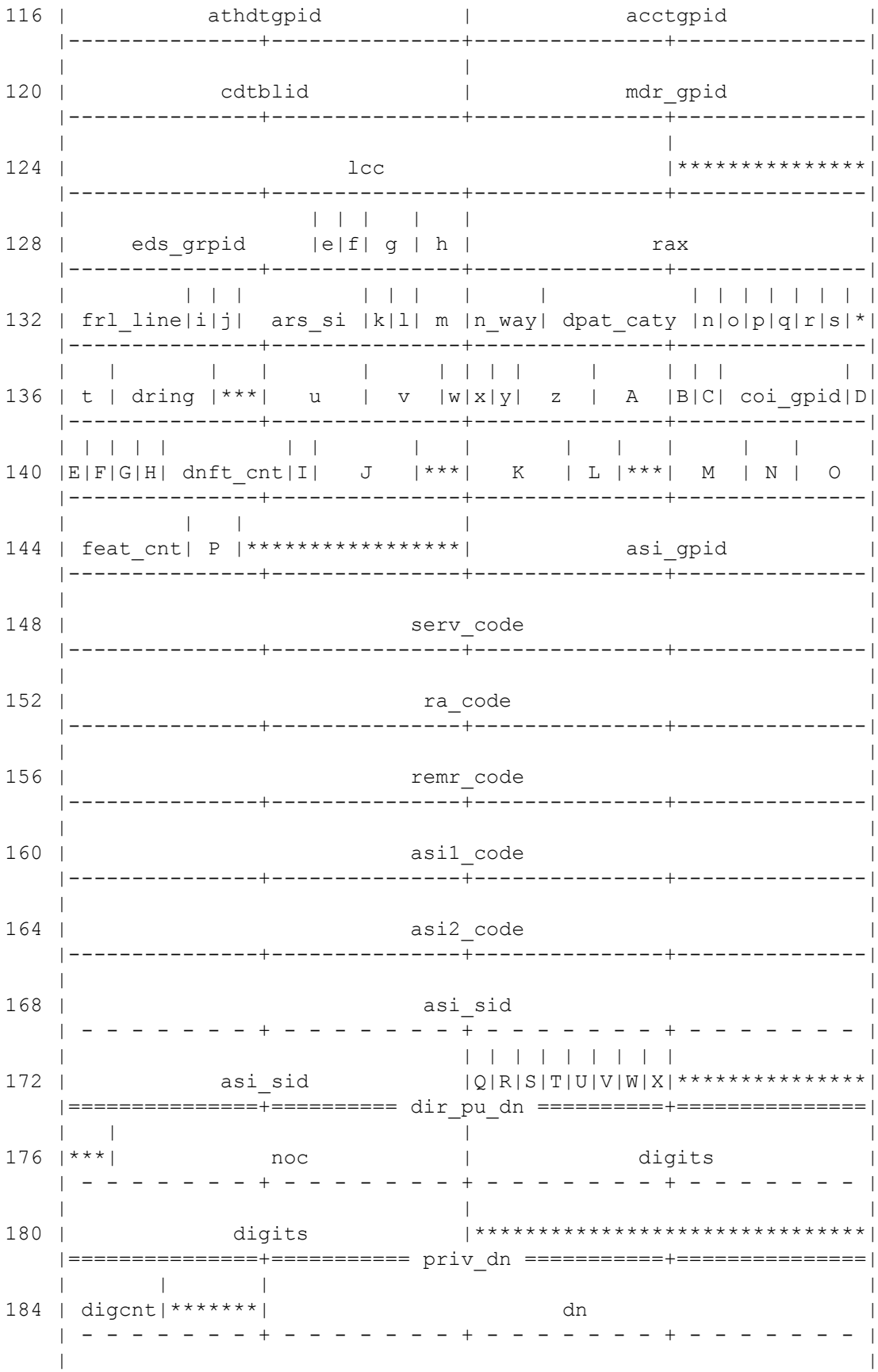
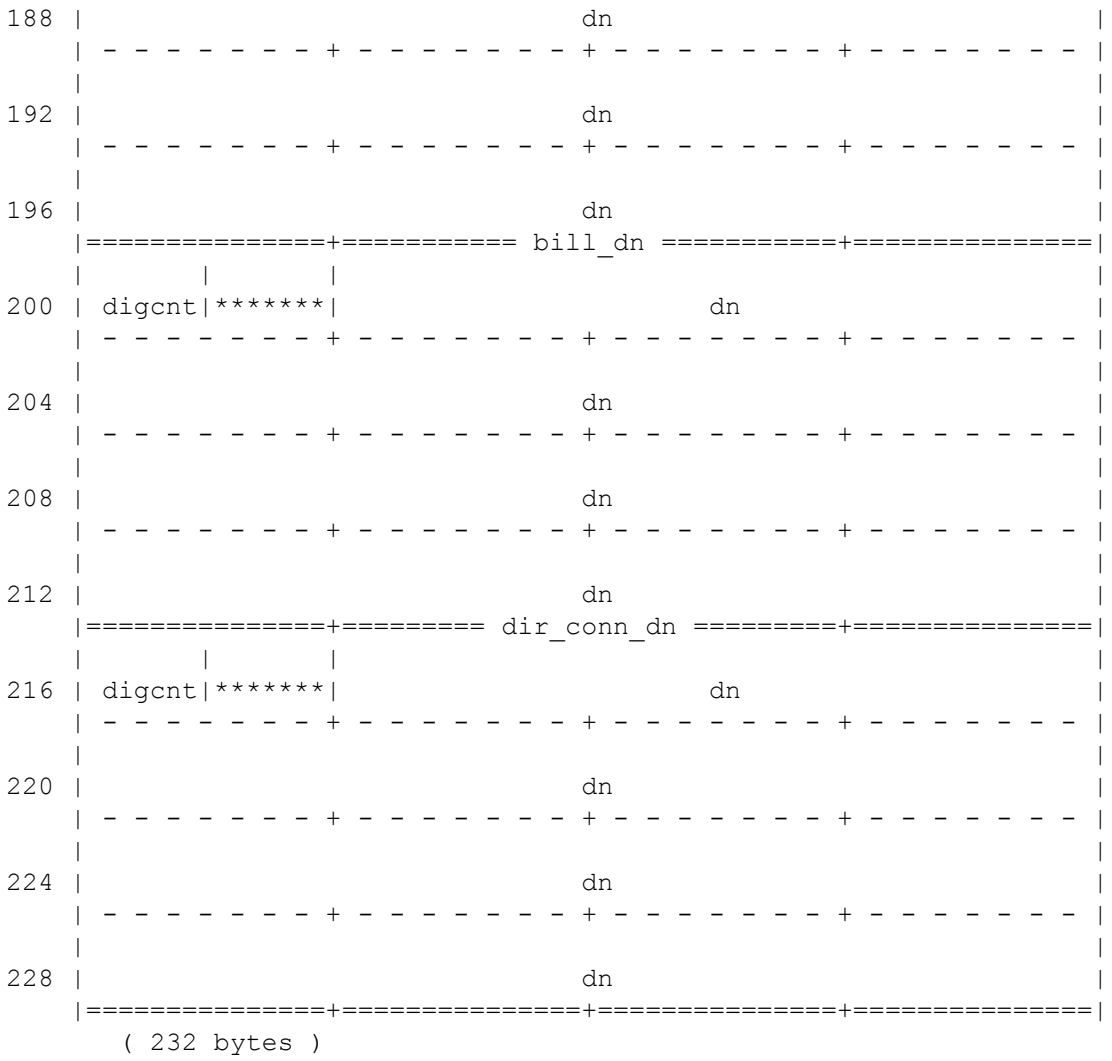
```
(F)     avn_rec     .0fake       (enum)
(G)     dir_stn     .0fake       (enum)
(H)     avn_orig    .0fake       (enum)
        dnft_cnt    .82.fake     (ushort: 5)
(I)     def_svc     .0fake       (enum)
(J)     acrngbktyp  .8fake       (enum)
(K)     arrngbktyp  .8fake       (enum)
(L)     max_bchan   .83.fake     (ushort: 2)
(M)     hotline     .17fake      (enum)
(N)     ldst_cw     .19fake      (enum)
(O)     alert_type  .20fake      (enum)
        feat_cnt    .84.fake     (ushort: 5)
(P)     cwd_usgsens  .22fake      (enum)
        asi_gpid    unsigned short (ushort)
        serv_code   .85.fake     (array [ 4 ] of char )
        ra_code     .86.fake     (array [ 4 ] of char )
        remr_code   .87.fake     (array [ 4 ] of char )
        asi1_code   .88.fake     (array [ 4 ] of char )
        asi2_code   .89.fake     (array [ 4 ] of char )
        asi_sid     .90.fake     (array [ 6 ] of char )
(Q)     asi_ra      .0fake       (enum)
(R)     ip_dial_bill  .0fake       (enum)
(S)     ex_bill     .0fake       (enum)
(T)     ffcf1       .0fake       (enum)
(U)     ffcf2       .0fake       (enum)
(V)     ffcf3       .0fake       (enum)
(W)     ffcf4       .0fake       (enum)
(X)     tcw         .0fake       (enum)
        dir_pu_dn   .5fake       (struct)
            noc         .5.fake      (ushort: 14)
            digits      .6.fake      (array [ 4 ] of char )
        priv_dn     .11fake      (struct)
            digcnt      .24.fake     (uchar: 4)
            dn          .25.fake     (array [ 15 ] of char )
        bill_dn     .14fake      (struct)
            digcnt      .42.fake     (uchar: 4)
            dn          .43.fake     (array [ 15 ] of char )
        dir_conn_dn  .14fake      (struct)
            digcnt      .42.fake     (uchar: 4)
            dn          .43.fake     (array [ 15 ] of char )
```

### 3.2 BFGMATCH Field Layout

```
                  Structure Layout    alBFGMATCH
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                       |                                       |
 0 |         bfgid         |***************************************|
   |---------------+---------------+---------------+---------------|
   |                                                       |   |   |
 4 |                           act                         |***|
   |---------------+---------------+---------------+---------------|
   |                                                       |   |   |
 8 |                           ath                         |***|
```


12
ras
16
ftent
20
ftent
64
ftent
68
ftent
72
ftent
76
tgid
idp_gpid
80
ad1_list_id
ad2_list_id
84
icrsfg
a
ar_gpid
88
ardtgpid
pf_gpid
92
pfdtgpid
b
96
pusel_q1
pusel_q2
100
pusel_q3
pusel_q4
104
c
d
port_ls_cc
108
member
module
112
t_pred_q
athgpid


athdtgpid
acctgpid
cdtblid
mdr_gpid
lcc
eds_grpid
e
f
g
h
rax
frl_line
i
j
ars_si
k
l
m
n_way
dpat_caty
n
o
p
q
r
s
t
dring
u
v
w
x
y
z
A
B
C
coi_gpid
D
E
F
G
H
dnft_cnt
I
J
K
L
M
N
O
feat_cnt
P
asi_gpid
serv_code
ra_code
remr_code
asi1_code
asi2_code
asi_sid
Q
R
S
T
U
V
W
X
dir_pu_dn
noc
digits
priv_dn
digcnt
dn




## 4. Population rules for RLbfgmatch

**Relation Description**

Business and residential customer service (BRCS) featuring grouping matching

List of BRCS constructed features (feature ID [FID] only) assigned to a BRCS feature group (BFG), used in BFG selection during the assignment of a BFG to a line/directory number (DN)/multi-line hunt group (MLHG) line.
in BFG selection during the assignment of a BFG to a line/DN/MLHG line.

| rel_name | relation description |
|---|---|
| bfgmatch | list of BRCS constructed features assigned to a BFG bfgid |

DISTRIBUTION: This relation is on the administrative module (AM) disk.

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Population Rules for RLbfgmatch:

Each insertion, update, or delete to/from RLtrmfeats and/or RLdn_feats will result in an insertion, possible update, or delete to/from RLbfgmatch. The bfgid attribute will be identical in both of these relations.

Remarks about BFG selection:
RLbfgmatch exists to avoid Recent Change (RC) performance response delays when the automatic BFG selection function is called. Most BRCS feature statuses, all group IDs and other important parameters of BFG are stored and maintained in this relation. Selection reads the AM disk (rather than the Switching Module (SM) where the BFG is already assigned) to determine during feature assignment whether the view buffer features and parameter data are compatible with the BFG. Since more than one BFG may be read in this way, selection retains which BFG has the most features and parameters matching the view buffer data. This best fit BFG is selected to be assigned to the line involved in this feature assignment process. If the result of best fit is a tie, the first BFG examined is assigned. If none of the BFG match, a BFG with subclass SCL_BFGB is assigned to the line. The inclusion of Line Class Code (LCC) in RLbfgmatch is used to minimize cross checks during terminal assignment and on BFG updates.

Multiple multiway calling (MW) features inside a BFG has an impact on selection since only one set of MW parameter is stored in RLbfgmatch. The first MW feature parameters encountered during BFG construction are stored in RLbfgmatch. All other MW features, in the BFG, must use the default parameters from the MW feature assigned.

Multiple Distinctive Ring (DR) features are not allowed in a BFG. This is blocked from occurring in BFG construction by the parameter mapping code for the DR modular feature. Such attempt to insert or add more than one DR feature to a BFG results in an error message.

One authorization code feature and auth group is allowed inside a BFG. During BRCS feature assignment, when the feature's dn_feats.ath = bfgmatch.ath, this feature is eligible to pass selection successfully.

Remote Access Service (RAS):
During BRCS feature assignment, when the feature's dn_feats.ras equals bfgmatch.ras, this feature is eligible to pass selection successfully.

Feature activation:
During BRCS feature assignment, when the feature's dn_feats.active=DBYES this feature is eligible to pass selection successfully. When the feature's dn_feats.active = DBNO, then the feature is eligible to pass selection successfully ONLY if bfgmatch.act = DBNO.

Speed Calling (SC) feature, shared and unshared SC lists,

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and selection:
The corresponding BFG RLsc_port tuples will have a full set of parameters (from the feature's default parameters if none were specified when the BFG was constructed) carried as a part of the BFG with the exception of unshared speed calling. Unshared speed calling will have SC_SHARED = DBNO (or null) and the SC LIST NAME will be null. This permits an unshared SC feature to reside inside the BFG and be eligible for selection.

During BFG selection, when an SC feature is to be assigned to the line, if the SC_SHARED attribute is DBNO (null), the line must have it's own RLsc_port tuple populated to retain the unshared speed call list. If the line's SC_SHARED is DBYES and SC LIST NAME is not null, the SC feature is permitted to be selected inside the BFG. The line will have its own RLsc_port tuple populated only if the SC_LIST NAME inside the BFG does not match the SC LIST NAME to be assigned to that line.

Constructed feature activation/deactivation option restrictions:
The following BRCS modular feature types require checks on their activation/deactivation options against all DMmc_actyp values that allow customer selected activation (end subscriber dialing codes which permanently alter the static office-dependent data [SODD]). Any such constructed or pre-constructed BRCS feature is not allowed to be assigned in a BFG. This check is to be maintained therefore on the basis of what is valid/invalid in DMmc_actyp, rather than what is valid/invalid on a modular feature by modular feature basis. The same check can therefore be called for ALL the following modular features identified:

Dependencies:

Any feature that satisfies any one of the following conditions should not be defined in bfgmatch:

1. If FEATURE = at_opts.fid, at_opts.actvn = ACTCD and at_opts.dctvn = DCTCD.

2. If FEATURE = acct_cf.feat_id, acct_cf.actvn = ACTCD and acct_cf.dctvn = DCTCD.

3. If FEATURE = ath_cf.ath_fid, ath_cf.actvn = ACTCD and ath_cf.dctvn = DCTCD.

4. If FEATURE = dr_opts.feat_id, dr_opts.actvn = ACTCD and dr_opts.dctvn = DCTCD.

5. If FEATURE = id_opts.feat_id, id_opts.actvn = ACTCD and id_opts.dctvn = DCTCD.

6. If FEATURE = mdr_opts.feat_id, mdr_opts.actvn = ACTCD and mdr_opts.dctvn = DCTCD.

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7. If FEATURE = mwcfdfl.feat_id, mwcfdfl.actvn = ACTCD and mwcfdfl.dctvn = DCTCD.

8. If FEATURE = tg_cf.feat_id, tg_cf.actvn = ACTCD and tg_cf.dctvn = DCTCD.

9. If FEATURE = puo_cf.feat_id, puo_cf.actvn = ACTCD and puo_cf.dctvn = DCTCD.

10. If FEATURE = put_cf.feat_id, put_cf.actvn = ACTCD and put_cf.dctvn = DCTCD.

Secondary only DNs may be assigned a BFG directly or via selection. If there are both terminal and DN type BRCS features inside the BFG, this does not invalidate the BFG from being selected for that secondary only DN. Call processing will permit the secondary DN to use only the DN features of that BFG.

Digital subscriber lines (DSLs) may only be assigned a default service BFG directly (not via selection). A default service BFG is indicated by a def_svc attribute set to DBYES: DSLs may only be assigned default service BFGs, and default service BFGs are assignable only to DSLs (such as, not DNs).

Application specific Population Rules - default service BFG

DESCRIPTION:

Each default service BFG requires a tuple in RLbfgmatch. Default service allows unknown customer premise equipment (CPE) on a basic rate interface (BRI) (subscribing to default service) to allow originations. No terminations are allowed to a CPE utilizing default service.

QUANTITY OF TUPLES:

Each default service BFG ID must have one tuple in RLbfgmatch.

TUPLE SEMANTICS:

Currently a default service BFG is only allowed a small subset of the features allowed for a normal BFG. A default service BFG is identified by attribute def_svc set to DBYES.

| Attribute | Value |
|---|---|
| bfgid | - The default service BFG ID. |
| def_svc | - DBYES |
| feat_cnt | - Zero |
| dnft_cnt | - Zero |
| act | - All bits set to zero. |
| ath | - All bits set to zero. |

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```
ras             - All bits set to zero.
ftent1          - All null feature IDs.
through
ftent30
tgid            - Zero
idp_gpid        - Zero
dpat_caty       - Zero
ad1_list_id     - Zero
ad2_list_id     - Zero
icsfg           - Zero
ad1_shared      - DBNO
ad2_shared      - DBNO
ar_gpid         - Zero
frl_line        -
priv_dn         - digcnt=0, code array initialized to "\0".
alw_mdr         - DBNO
use_alt_frl     - DBNO
ars_si          - One
q_alwd          - DBNO
qpriority       - DBNO
un_dpln         - DPNULL
pf_gpid         - Zero
pfq_alwd        - DBNO
pfqpriority     - DBNO
moh_act         - DBNO
dir_pu_dn       - Array initialized to zeroes.
pusel_q1        - Zero
pusel_q2        - Zero
pusel_q3        - Zero
pusel_q4        - Zero
port_ls_cc.module       - Zero
port_ls_cc.member       - Zero
t_pred_q        - Zero
dring           - DR_A
ring_typ        - DR_A
ring_max        - SEC_24
athgpid         - Zero
ath_first       - DBNO
ath_ama         - DBNO
ath_mdr         - DBNO
acctgpid        - Zero
cdtblid         - Zero
eds_grpid       - Zero
mdr_gpid        - Zero
dir_conn_dn     - digcnt=0, DN array initialized to zeroes.
n_way           - N_EQ_0
prec_noncoi     - PP_FLOVERRIDE
preemptable     - DBNO
impreempt       - DBNO
prec_pkup       - DBNO
forwd_prec      - DBNO
avn_rec         - DBNO
dir_stn         - DBNO
avn_orig        - DBNO
```

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```
prec_coi        - PP_FLOVERRIDE
coi_gpid        - Zero
hotline         - NOT_HL
lcc             - See attribute description.
rax             - See attribute description.
bill_dn         - See attribute description.
max_bchan       - One
csv_bchan       - One
csd_bchan       - Zero
csv_hunt        - DBNO
csd_hunt        - DBNO
csv_fixed       - FCANY_CHAN
csd_fixed       - FCNO_BCHAN

The following population rules apply to each of the advanced
service interface (ASI) attributes using DMbcd5_6 domain:

        ra_code, remr_code, spare1_code and spare2_code

Office data administration (ODA):
The length of an attribute of this input/output (I/O) type does
not imply the number of digits that can be stored in it.

Recent change (RC):
The algorithm used to determine the number of digits storable in
the attribute can be found in hdr/db/DBbcdmacs.h.

The domain DMbcd5_6 supports up to six BCD digits plus a count of
the actual number of digits stored.  The ASI feature uses codes
of one to five digits, inclusive (1 <= number of digits <= 5).
Number of digits = "\0" means no code exists.

The digits are stored in BCD format, two per character (byte).
The domain has three characters to represent up to six digits plus
one character for the number of digits (the number of digits
character is required by the I/O type).  If the number of digits is
greater than six, the null character (which becomes same as digit 0 in
BCD) is used to fill the remaining digits.  The 'number of digits'
character always contains the number of digits.  The digits are stored
in the attribute starting with D1.


Layout follows:

| byte 0  | byte 1  | byte 2  | byte 3  |
-----------------------------------------
|    |    |    |    |    |    |         |
| D1 | D2 | D3 | D4 | D5 | D6 | no. dig |
|    |    |    |    |    |    |         |
-----------------------------------------

*****************************************************************/
```

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**Attribute:**
bfgid
**Fullname:**
Identifier for the BRCS feature group
**Attribute Description:**
Note: In this relation a tuple is only populated when a BFG has been created or updated. In other poprules the range of bfgid is noted as 0-4095. In this poprule the tuple is created/updated only if a bfgid has been assigned in the range previously stated. Values 0-255 are invalid since they represent no BFG (0), and null BFG (base=1-255).

**Attribute:**
act
**Fullname:**
Activation
**Attribute Description:**
Bit array identifying the activation/deactivation status of features within BFG. This 30 bit array contains one bit per BFG feature (a maximum of 30 BRCS features are allowed within one BFG.)

**Attribute:**
ath
**Fullname:**
Authorization code
**Attribute Description:**
Bit array identifying the authorization code status of features within the BFG. This 30 bit array contains one bit per BFG feature (a maximum of 30 BRCS features are allowed within one BFG).

**Attribute:**
ras
**Fullname:**
Remote access service
**Attribute Description:**
Bit array identifying the remote access service status of features within the BFG. This 30 bit array contains one bit per BFG feature (a maximum of 30 BRCS features are allowed within one BFG).

**Attribute:**
ftent[*]
**Fullname:**
Constructed feature ID
**Attribute Description:**
Each entry is a constructed feature ID. There must be a tuple in RLfacname and RLfid2name with a feature assignment and

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construction identification (FACID) equal to this value.
The class associated with the FACID must be equal to FACBRCS.

Some BRCS feature parameter relations use DMFID as the domain for the feature ID key, others use DMMCC_FID. DMFID is a 10 bit domain, and requires using the low-order 10 bits {0:9}. DMMCC_FID is a 16 bit domain. BRCS feature SC and ID are examples of features using the DMMCC_FID, but which are really only using bits {0:9} - for the constructed feature relation and the feature options relation. Sub-key generation is being used to strip off the six bits passed from RC - it's removing the modular feature type (MFT). This is being done since the MFT is not needed, as because it saves space.

Note: In this relation terminal features should appear before DN features. Certain features are restricted from being used by standard (STD) BRIs. Other features are for STD BRIs only. BFGs are not allowed to be constructed which contain features from both these two incompatible sets.

```
DN
Features restricted
from STD BRI or
analog shared with STD
----------------------
MFEDS (unless SFID225 is purchased)
MFPP

DN
Features allowed
only on STD BRI
------------------
MFRND
MFAR for CSD

Terminal features restricted
from STD BRI or
analog shared with STD
----------------------------
MFACB
MFACSR
MFCWT

Terminal
Features allowed
only on STD BRI
-----------------
there are none
```

In addition to the restrictions listed previously which are based on modular feature type, the following restrictions on feature options apply to STD BRI and analog shared with STD BRI.

1. The call forwarding (CFW) over private

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facilities option
2. The message desk service (MDS) leave word calling feature option
3. The MDS message retrieval display feature option
4. The MDS print on demand feature option
5. The MDS auto call setup feature option
8. The display time and date feature option
9. Any calling party number (CPN)/billing number (BN) feature option values other than CPN_PREF or CPN_ONLY
10. The MW entrypoint is dialcode option
11. The automatic call distribution (ACD)/BRCS CFW return to queue option

**Attribute:**
tgid
**Fullname:**
Terminal group ID
**Attribute Description:**
Range of values: 1 - 65535.

Default: None or zero. If there is a terminal group (TG) feature, the default is none. Otherwise, the default is zero.

Dependency: None

**Attribute:**
idp_gpid
**Fullname:**
Individualized dialing plan (IDP) group ID
**Attribute Description:**
Range of values: 0 - 65535.

Default: None or zero. If there is an IDP feature, the default is none. Otherwise, the default is zero.

Dependencies:

| Attribute value | Dependency |
|---|---|
| zero | 1. If and only if this port has no IDP group data.<br>2. RLbfgmatch.dpat_caty equals zero. |
| greater than zero | 1. Verify existence of tuple in RLidp_gp for this key. |

**Attribute:**
ad1_list_id
**Fullname:**
One-digit abbreviated dial list

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**Attribute Description:**

Range of values: 0-65535.

Default: Zero.

Dependencies:

| Attribute value | Dependency |
|---|---|
| zero | Indicates the one-digit abbreviated dial list is not assigned to this port. |
| greater than zero | Verify existence of tuple in RLad1s_idp: RLsc_cf.sc = SC1_DIG. |

**Attribute:**

ad2_list_id

**Fullname:**

Two-digits abbreviated dial list

**Attribute Description:**

Indicates the two-digit abbreviated dial list assigned to this port.

Range of values: 0-65535.

Default: Zero.

Dependencies:

| Attribute value | Dependency |
|---|---|
| zero | Indicates the two-digit abbreviated dial list is not assigned to this port. |
| greater than zero | Verify existence of tuple in RLad2s_idp: RLsc_cf.sc equals SC2_DIG. |

**Attribute:**

icrsfg

**Fullname:**

Intercome calling restriction (ICR) simulated facilities group number

**Attribute Description:**

Range of values: 0 - AVSFGRPS().

Default: Zero (no ICR).
Dependancy: 'sfg_num' must have been assigned in RLicr.

**Attribute:**

feat_cnt

**Fullname:**

Feature counts

**Attribute Description:**

Indicates the number of features assigned within this bfgid

Range of values: 0-30.
Default: Zero.

**Attribute:**

ar_gpid

**Fullname:**

Constructed feature ID

**Attribute Description:**

Each entry is a constructed feature ID. There must be a tuple in RLfacname and RLfid2name with a FACID equal to this value. The class associated with the FACID must be equal to FACBRCS.

Note: In this relation terminal features should appear before DN features.

**Attribute:**

ardtgpid

**Fullname:**

Constructed feature ID

**Attribute Description:**

Each entry is a constructed feature ID. There must be a tuple in RLfacname and RLfid2name with a FACID equal to this value. The class associated with the FACID must be equal to FACBRCS.

Note: In this relation terminal features should appear before DN features.

**Attribute:**

pf_gpid

**Fullname:**

Private facility group

**Attribute Description:**

Range of values: 0 - 65535.

Default: Zero. Indicates that this port has no private facility group associated.

**Attribute:**

pfdtgpid

**Fullname:**

Private facility access (PFA) data group ID

**Attribute Description:**

PFA data group ID.

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**Attribute:**
dir_pu_dn
**Fullname:**
Direct pickup local telephone number
**Attribute Description:**
Direct pickup local telephone number that can be accessed by code.

Range of values: if populated, a telephone number serviced by this office, (full directory number).

Default value: No default or zero. If there is a call pickup originating (PUO) feature, the default is none. Otherwise, the default is zero.

Dependencies: If not null (\0) then RLpuo_cf assigned to this port shall have RLpuo_cf.initiate equal to PUIPREDN. The directed call pickup originator and terminator must be in the same terminal group.

**Attribute:**
dir_pu_dn.noc
**Fullname:**
Normalized office code(NOC) of the directory number
**Attribute Description:**
The NOC of the directory number corresponding to the directed call pick up DN.

**Attribute:**
dir_pu_dn.digits
**Fullname:**
last 4 digits of the local directory number
**Attribute Description:**
Last 4 digits of the DN corresponding to the directed call pick up DN.

**Attribute:**
dpd_dntr
**Fullname:**
unused attributes
**Attribute Description:**
unused attribute - default to zero

**Attribute:**
pusel_q1
**Fullname:**
Queue group
**Attribute Description:**
The queue (group) that the customer can originate to pick up.

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Range of values: 0, or 2 to 65534. Values 2 through 65534 are valid when constructing RLpuo_cf only.

Default: No default or zero. If there is a PUO feature, the default is none. Otherwise, the default is zero.

Dependency: If pusel_q1 greater than or equal to two and if RLpuo_cf.initiate equals PUIPRDQ then RLpuo_cf.pu_selq does not equal PUQNONE. If pusel_q1 equals zero then, RLpuo_cf.pu_selq equals PUQNONE.

**Attribute:**
pusel_q2
**Fullname:**
Queue group
**Attribute Description:**
The queue (group) that the customer can originate to pick up.

Range of values: 0, or 2 to 65534. Values 2 through 65534 are valid when constructing RLpuo_cf only.

Default: No default or zero. If there is a PUO feature, the default is none. Otherwise, the default is zero.

Dependency: If pusel_q2 greater than or equal to two and if RLpuo_cf.initiate equals PUIPRDQ then RLpuo_cf.pu_selq is not equal to PUQNONE or PU1QS and RLpu_port.pusel_q1 is greater than or equal to two.

**Attribute:**
pusel_q3
**Fullname:**
Queue group
**Attribute Description:**
The queue (group) that the customer can originate to pick up.

Range of values: 0, or 2 to 65534. Values 2 through 65534 are valid when constructing RLpuo_cf only.

Default: No default or zero. If there is a PUO feature, the default is none. Otherwise, the default is zero.

Dependency: If pusel_q3 is greater than or equal to two and if RLpuo_cf.initiate equals PUIPRDQ then:
1. RLpuo_cf.pu_selq equals PU3QS or PU4QS.
2. RLpu_port.pu_selq1 and RLpu_port.pu_selq2 are greater than or equal to two.

**Attribute:**
pusel_q4

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**Fullname:**

Queue group

**Attribute Description:**

The queue (group) that the customer can originate to pick up.

Range of values: 0, or 2 to 65534. Values 2 through 65534 are valid when constructing RLpuo_cf only.

Default value: No default or zero. If there is a PUO feature, the default is none. Otherwise, the default is zero.

Dependencies: If pusel_q4 is greater than or equal to two and if RLpuo_cf.initiate equals PUIPRDQ then, RLpuo_cf.pu_selq equals PU4QS and RLpu_port.pu_selq1, RLpu_port.pu_selq2, and RLpu_port.pu_selq3 are greater than or equal to two.

**Attribute:**

csv_bchan

**Fullname:**

Number of B-channels for circuit switched voice (CSV) calls

**Attribute Description:**

Number of B-channels a user is allowed for CSV calls.

Range: Zero to one.

Default: Zero.

Dependency: If RLbfgmatch.csv_bchan is_not zero then RLbfgmatch.def_svc is DBYES. See also the def_svc dependency section.

**Attribute:**

csd_bchan

**Fullname:**

Number of B-channels for circuit switched data (CSD) calls

**Attribute Description:**

Number of B channels a user is allowed for CSD calls.

Range: Zero (greater than zero currently not allowed).

Default: Zero.

Dependency: RLbfgmatch.csd_bchan is zero. See also the def_svc dependency section.

**Attribute:**

port_ls_cc

**Fullname:**

Port ID of loud speaker paging (LSP) or code calling (CCL) trunk

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**Attribute Description:**

Port ID of LSP or CCL trunk that is to be accessed. This attribute is divided into sub-attributes port.members and port.module. The structure members are:

1. member (DMport): Port name of a port.
2. module (DMmodule): The SM number that this port terminates on.

Range of values: 1. member: unsigned short (0-65535).
2. module: unsigned short (1-255).

Default: No default or zero. If there is a PUO feature, the default is none. Otherwise, the default is zero.

Dependencies: The CPUO feature with LSP or CCL is not allowed inside a BFG.

**Attribute:**

port_ls_cc.member

**Fullname:**

Port

**Attribute Description:**

Same as seen previously..

**Attribute:**

port_ls_cc.module

**Fullname:**

Module

**Attribute Description:**

Same as seen previously..

**Attribute:**

t_pred_q

**Fullname:**

Terminating predesignated queue

**Attribute Description:**

Terminating predesignated queue.

Range of values: 0, or 2 to 65534. Values 2 through 65534 are valid when constructing RLput_cf only.

Default: No default or zero. If there is a PUT feature and RLput_cf.fea_fun is 'CAL_PU', the default is none. Otherwise, the default is zero.

Dependencies: If RLput_cf.fea_fun equals CAL_PU then t_pred_q is greater than or equal to two.

**Attribute:**

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athgpid

**Fullname:**

Authorization code group identifier

**Attribute Description:**

Authorization code group identifier.

Range of values: 0 to 65535.

Default: Zero is not a valid athgpid, used to indicate there is not an athgpid associated with this ath_fid.

Dependencies: If a non-zero athgpid is specified a tuple must exist in RLath_gp keyed by the athgpid.

**Attribute:**

athdtgpid

**Fullname:**

Authorization data group ID

**Attribute Description:**

Authorization data group ID.

**Attribute:**

acctgpid

**Fullname:**

Account code data group ID.

**Attribute Description:**

Account data group ID

**Attribute:**

cdtblid

**Fullname:**

Code association table identifier

**Attribute Description:**

Code association table identifier.

Range of values: 0 to 65535.

Default: Zero.

Dependencies: If cdtblid is greater than zero, verify that RLacct_rtg has a tuple where RLacct_rtg.cdtblid equals RLacct_prt.cdtblid. An account code (ACCT) port does not have to be assigned to an ACCT code association table.

**Attribute:**

mdr_gpid

**Fullname:**

Message detail recording (MDR) group ID

**Attribute Description:**

MDR group ID.

Range of values: 1 to 1000.

Default: None or zero. If there is a MDR feature, the default is none. Otherwise, the default is zero.

Dependencies: The port must be assigned to an existing MDR group with a non-zero MDR group ID.

For each non-zero MDR group ID, a tuple must exist in RLmdr_gp such that: RLmdr_gp.mdr_gpid = mdr_gpid.

If there is a group ID entered in this attribute the group must not be packet MDR only (RLmdr_gp must be populated for this group ID with at least one of the following attributes: {orig_priv, in_priv, public} set to DBYES as well as the attribute pkt_mdr set to DBYES or DBNO). The group ID is invalid if the pkt_mdr attribute equals DBYES and the previous other three attributes equal DBNO. The restriction applies only to packet MDR.

**Attribute:**
lcc
**Fullname:**
Line class code
**Attribute Description:**
Refer to the Translations Guide (TG-5) for LCC examples. The LCC is assigned by the switch owner. This attribute stores the LCC used to build the bfgid.

Default: None (but 'lcc' is required input to create a BFG).

Dependency: When RLrc_lcc.lcc is equal to RLbfgmatch.lcc and RLrc_lcc.rax is equal to RLbfgmatch.rax, check the value of def_svc. If def_svc is not DBYES then, when the bfgid is built, the required BRCS feature cross checks are performed. If the value in RLrc_oeinfo.lcc is equal to bfgmatch.lcc, it is not necessary to rerun cross checks during a feature or BFG update. If def_svc is DBYES then, RLrc_lcc.line_screen must be DBNO, RLrc_lcc.servclass must be FC_ISDN, and RLrc_lcc.termclass must be RTTC_INDIV.

**Attribute:**
eds_grpid
**Fullname:**
Electronic directory service (EDS) group ID
**Attribute Description:**
EDS group ID (ten bits, bits zero through nine), is an identifier resulting from the conversion from an eight character EDS group name using RLfacname. The eds_grpid is arranged sequentially starting at one. When an eds_grpid is freed-up, that position will

be re-claimed before adding one more to the end of the list.

Range of values: 1 to 1023.

Default: None or zero. If there is an EDS feature, the default is none. Otherwise, the default is zero.

Dependencies: None.

**Attribute:**
csv_hunt
**Fullname:**
Circuit switched voice multi-line hunt group
**Attribute Description:**
Flag to indicate that this user is a member of a CSV MLHG.

Range of values: DBNO (DBYES is currently not allowed).

Default: DBNO.

Dependency: RLbfgmatch.csv_hunt is DBNO. See also the def_svc dependency section.

**Attribute:**
csd_hunt
**Fullname:**
Circuit switched data multi-line hunt group
**Attribute Description:**
Flag to indicate that this user is a member of a CSD MHLG.

Range of values: DBNO (DBYES is currently not allowed).

Default: DBNO.

Dependency: RLbfgmatch.csd_hunt is DBNO. See also the def_svc dependency section.

**Attribute:**
csv_fixed
**Fullname:**
Specific B-channel used for CSV calls
**Attribute Description:**
Used to specify a specific B-channel used for CSV calls.

Range of values: FCNO_BCHAN, FCANY_CHAN.

Default: FCNO_BCHAN.

Dependency: If RLbfgmatch.csv_fixed is_not FCNO_BCHAN then RLbfgmatch.def_svc is DBYES. See also the def_svc dependency section.

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**Attribute:**
csd_fixed
**Fullname:**
Specific B-channel used for CSD calls
**Attribute Description:**
Used to specify a specific B-channel used for CSD calls.

Range of values: FCNO_BCHAN, FCANY_CHAN.

Default: FCNO_BCHAN.

Dependency: If RLbfgmatch.csd_fixed is_not FCNO_BCHAN then RLbfgmatch.def_svc is DBYES. See also the def_svc dependency section.

**Attribute:**
rax
**Fullname:**
Rate center
**Attribute Description:**
Rate center (used with LCC).

Default: One (rax attribute is required input to create a BFG).

Dependency: See the previous lcc attribute dependencies.

**Attribute:**
frl_line
**Fullname:**
Automatic route selection (ARS) restriction level
**Attribute Description:**
ARS facility restriction level (FRL) for this BFG. This value is used to compare the frl_grp in RLrt_mcrt. This field is meaningless for trunks that use incoming Traveling Class Marks (TCMs).

Range of values: 0 to 16 and 31.

Default: 16 or 31. If there is an ARS feature, the default is 16. Otherwise, the default is 31 (ARFRL_NONUSE).

Dependency: If RLarcf.frl_typ equals ARL_FXDFRL, then RLarport.frl_line = 16.

**Attribute:**
alw_mdr
**Fullname:**
Allow MDR

**Attribute Description:**
Indicates if this port requires MDR to revenue accounting office, for call types AMCCSASAMP, AMETSMDR, and AMETSCCSA only.

Range of values: DBYES, DBNO.

Default: DBNO.

Dependencies: If RLfc_porttyp.servclass equals FC_MODEM, set alw_mdr=DBNO for modem members in a modem pool group.

## 5. BFGMATCH Population rules continued.

**Attribute:**
use_alt_frl
**Fullname:**
Alternate FRL table treatment
**Attribute Description:**
Indicates if this port requires alternate FRL table treatment.

Range of values: DBYES, DBNO.

Default: DBNO.

Dependencies: If RLargp.alw_alt_frl = DBNO, use_alt_frl must be DBNO.

**Attribute:**
ars_si
**Fullname:**
ARS screening index
**Attribute Description:**
ARS screening index used to read RLarscrn.

Range of values: 1-16.

Default: One (equal to one when no ARS feature exists inside the BFG.) For retrofit, use the default value.

Dependency: A tuple with this ars_si and ar_gpid should be populated in RLarscrn in order for ARS to work. However, RC does not enforce this due to the magnitude of the cross-check.

**Attribute:**
q_alwd
**Fullname:**
Queue allowed
**Attribute Description:**
Indicates if modular queuing for outgoing private facilities is allowed.

Range of values: DBYES or DBNO.

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Default: DBNO.

Dependencies: None.

**Attribute:**
qpriority
**Fullname:**

Queue priority
**Attribute Description:**
Indicates if this is a priority line for modular queuing for private facility.

Range of values: DBYES or DBNO.

Default: DBNO.

Dependencies: If qpriority is DBYES, then q_alwd must be DBYES.

**Attribute:**
un_dpln
**Fullname:**
Uniform numbering dialing plan number
**Attribute Description:**
Uniform numbering dialing plan number. Each port which is given auto ARS treatment must specify the private network dialing plan (PNDP) or the office dialing plan (ODP).

Range of values: DPNULL,DP1,DP2,DPODP.
Default: DPNULL.

Dependencies:
1. If RLarport.un_dpln is not DPNULL then the ARS feature assigned must have an entry condition of AUTO. To verify this the ARS feature ID from RLtrmfeats for this port is used as the key to RLartm and RLartm.entry_pt must equal ARE_AUTO.

2. If this attribute is DP1 or DP2, then there must exist a tuple in RLundpinfo for the same ar_gpid with RLundpinfo.un_dpln equal to RLarport.un_dpln.

   For Retrofit purposes, un_dpln equals DPODP when RLartm.entry_pt equals ARE_AUTO and un_dpln equals DPNULL when RLartm.entry_pt = ARE_ACC_CD.

3. If RLarport.un_dpln equals DPODP, then RLarport.tcmin must equal zero.

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**Attribute:**
n_way
**Fullname:**
N-way
**Attribute Description:**
Maximum number of terminals that may be involved in an N-way call, for the first MW feature found in RLbfgmatch.ftent1 through ftent30.

Range of values: N_EQ_0, N_EQ_3, N_EQ_4, N_EQ_5, N_EQ_6.

Default: N_EQ_0 where the modular feature is constructed such that no MWPORT would be populated in the ODD. If the BFG's first MW feature populates a MWPORT tuple, then MWPORT poprules apply for the default value. Otherwise, the default is N_EQ_0.

Dependencies: None.

Note: The default value of N_EQ_0 does not impact RLmwport population rules, as it applys only when no tuple is populated in that relation.

**Attribute:**
dpat_caty
**Fullname:**
Dialing plan access treatment
**Attribute Description:**
Indicates category assigned to this BFG to dial plan access treatment (DPAT). Used along with DPAT array in dial tree to determine a treatment.

Range of values: 0 - 32.

Default: Zero.

Dependencies: A zero indicates there is no DPAT. A zero should be assigned if IDP group for this port has RLidp_gp.dpat_alwd = DBNO.

**Attribute:**
ad1_shared
**Fullname:**
One-digit abbreviated dialing (AD) list shared
**Attribute Description:**
Indicates whether one-digit AD list is shared (DBYES) or not shared (DBNO) with other lines.

Range of values: DBYES, DBNO.

Default: DBNO.

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Dependencies: None.

**Attribute:**
ad2_shared
**Fullname:**
Two-digit AD list shared
**Attribute Description:**
Indicates whether two-digit ad list is shared (DBYES) or not shared (DBNO) with other lines.

Range of values: DBYES, DBNO.

Default: DBNO.

Dependencies: None.

**Attribute:**
pfq_alwd
**Fullname:**
Modular queue for outgoing private facility allowed
**Attribute Description:**
Indicates if modular queuing for outgoing private facilities is allowed.

Range of values: DBYES or DBNO.

Default: DBNO.

Dependencies: If q_alwd ID DBYES then:
1. RLrc_lcc.servclass must be FC_INDIVIDUAL, FC_ISDN, FC_ISATND, FC_ATTENDANT, FC_PBX, or FC_4WIRE_INDV.

2. If RLrc_lcc.servclass equals FC_4WIRE_INDV and if RLfc_4wire.conf_bridge equals DBYES, then q_alwd must equal DBNO.

**Attribute:**
pfqpriority
**Fullname:**
PFA q priority
**Attribute Description:**
Indicates if this is a priority line for modular queuing for private facility.

Range of values: DBYES or DBNO.

Default: DBNO.

Dependencies: If qpriority is DBYES, then q_alwd must be DBYES. If q_alwd is DBYES and RLrc_lcc.servclass is FC_ATTENDANT

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or RLrc_lcc.servclass is FC_ISATND then qpriority must be DBYES.

**Attribute:**
moh_act
**Fullname:**
Music on hold active
**Attribute Description:**
Indicates if the music is on hold active for this BFG.

Range of values: DBYES or DBNO.

Default: DBNO.

moh_act = DBYES: Music on hold is active.
moh_act = DBNO: Music on hold is not active.

**Attribute:**
disp_rstrct
**Fullname:**
Customer Defined DISPlayed ReSTRiCTion: RC/V 12.9
**Attribute Description:**

Centrex Network "disp_rstrct"

disp_rstrct contains a value that indicates
to a called ISAT attendant, a customer defined
restriction for the calling party.
This value is used only for display to an ISAT
attendant and is not enforced by switch software.
A value of DBTOLL_RST means, to the ISAT attendant,
the caller is restricted from making toll calls.
A value of DBNULL_RST means, to the ISAT attendant,
the caller has no customer defined restrictions.

**Attribute:**
dring
**Fullname:**
Distinctive ringing pattern
**Attribute Description:**
Identifies the type of distinctive ringing pattern.

Range of values: DR_A, DR_B, DR_C, DR_D, DR_E, DR_F, DR_P.

Default: DR_A.

Dependencies: The dring attribute can have the values
DR_E or DR_F if and only if RLfc_porttyp.servclass for
this port equals FC_4WIRE_INDV.

SPECIAL CHECK FOR MLHG:

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An MLHG line that is an Multi-Line Position Hunt (MUPH) line (RLrt_mhg.htype equals RTH_MUPH) cannot have distinctive ringing.

**Attribute:**
ring_typ
**Fullname:**
Call-back ringing cadence optioned
**Attribute Description:**
Identifies type of call-back ringing cadence optioned.

Range of values: DR_A, DR_B, DR_C, DR_D, DR_E, DR_F, DR_P.

Default: DR_C or DR_A. If there is an ACBC feature, the default is DR_C. Otherwise, the default is DR_A.

Dependencies: The ring_typ must be assigned DR_E or DR_F only if the port has RLfc_porttyp. The servclass attribute if and equals FC_4WIRE_INDV.

**Attribute:**
ring_max
**Fullname:**
Call-back duration maximum
**Attribute Description:**
Specifies the maximum number of seconds the feature will attempt to recall the feature initiator.

Range of values: SEC_24, SEC_30, SEC_36, SEC_42, SEC_48.

Default: SEC_24.

Dependencies: None.

**Attribute:**
ath_first
**Fullname:**
Authorization code first
**Attribute Description:**
Indicates if the authorization code is required first.

Range of values: DBYES (authorization code is required first). DBNO (authorization code is not required first).

Default: DBNO.
Dependencies: None.

**Attribute:**
ath_ama

**Fullname:**
Authorization automatic message accounting (AMA)
**Attribute Description:**
Indicates if an authorization code is required before allowing anyAMA recorded calls to proceed.

Range of values: DBYES (authorization code is required). DBNO (authorization code is not required).

Default: DBNO.
Dependencies: None.

**Attribute:**
ath_mdr
**Fullname:**
Authorization MDR
**Attribute Description:**
Indicates if an authorization code is required before allowing MDR to proceed.

Range of values: DBYES (authorization code is required). DBNO (authorization code is not required).

Default: DBNO.
Dependencies: None.

**Attribute:**
prec_noncoi
**Fullname:**
Precedence of non-community of interest (COI)
**Attribute Description:**
Indicates the highest authorized precedence level of a call originating on this line to a non-COI destination. For hotline calls, this precedence level is used provided a precedence level is not stored as part of attribute dn in relation RLfc_dircon.

Range of values: PP_FLOVERRIDE, PP_FLASH, PP_IMMEDIATE, PP_PRIORITY, PP_ROUTINE, PP_EXECUTIVE.

Default: PP_ROUTINE or PP_FLOVERRIDE. If there is a precedence and preemption (PP) feature, the default is PP_ROUTINE. Otherwise, the default is PP_FLOVERRIDE.

Dependencies: None.

**Attribute:**
prec_coi
**Fullname:**
Precedence of COI
**Attribute Description:**

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Indicates the highest authorized precedence of a call originating on this line to an ltm_idx in the same COI group.

Range of values: PP_FLOVERRIDE, PP_FLASH, PP_IMMEDIATE, PP_PRIORITY, PP_ROUTINE, PP_EXECUTIVE, PP_NONE.

Default: PP_NONE or PP_FLOVERRIDE. If there is a PP feature, the default is PP_NONE. Otherwise, the default is PP_FLOVERRIDE.

Dependencies: If set to PP_NONE then coi_gpid == 0.

**Attribute:**
preemptable
**Fullname:**
Preemtable
**Attribute Description:**
Indicates whether this line can be preempted or not.

Range of values: DBYES, DBNO.

Default: DBYES or DBNO. If there is a PP feature, the default is DBYES. Otherwise, the default is DBNO.

Dependencies: Verify the following for lines in an MLHG with an hnttype of RTH_PPSMHG or RTH_PPLMHG for the tuple in RLport_group where the port is RLltm_port(ltm_idx).port.

1. If RLpp_ltm.ltm_type equals LTM_OTHER or if RLpp_ltm.ltm_type equals LTM_ISDN, then RLis_line(ltm_idx, lead_module).lead_lport is used to read lpt_pt(lead_lport) to get the port.

   If there exists a tuple in RLrt_mhg such that, key RLrt_mhg.grpnum equals RLport_group.portgrp.grpnum, then the following must be true:

1. If RLport_group.member is greater than or equal to RLrt_mhg.first_preempt, then RLpp_ltm.preemptable must be set to DBYES.

2. Otherwise, if RLport_group.member is less than RLrt_mhg.first_preempt, then RLpp_ltm.preemptable must be set to DBNO.

**Attribute:**
impreempt
**Fullname:**
Immediate preemption
**Attribute Description:**
Indicates whether immediate preemption is turned on or off on this ltm_idx.

Range of values: DBYES, DBNO.

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Default: DBYES or DBNO. If there is a PP feature, the default is DBYES. Otherwise, the default is DBNO.

Dependencies: If preemptable is set to DBNO then this attribute must be set to DBNO.

**Attribute:**
coi_gpid
**Fullname:**
COI group ID
**Attribute Description:**
Indicates the COI group ID.

Range of values: 0 - 20.

Default: Zero.

Dependencies: If set to zero then prec_coi equals PP_NONE. If it is greater than zero, then prec_coi does not equal PP_NONE.

**Attribute:**
prec_pkup
**Fullname:**
Precedence calls pick up
**Attribute Description:**
Indicates whether precedence calls to this ltm_idx can be picked up using the call pickup feature.

Range of values: DBYES, DBNO.

Default: DBNO.

Dependencies: If set to DBYES, then verify existence of a tuple in RLpu_ltm such that:
1. key RLpu_ltm.ltm_idx equals ltm_idx
2. key RLpu_ltm.ltm_type equals ltm_type
3. key RLpu_ltm.lead_module equals lead_module
4. key RLpu_ltm.feat_id equals a pickup terminating constructed feature ID.

**Attribute:**
forwd_prec
**Fullname:**
Forward intragroup precedence option
**Attribute Description:**
Indicates whether the forward intragroup precedence option is on or off.

Range of values: DBYES, DBNO.

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Default: DBNO.

Dependencies: If set to DBYES then verify that a PP call forwarding feature has been assigned to this ltm_idx. This can be done by finding the tuple in relation RLdn_feats with the same keys as RLpp_ltm plus any RLdn_feats.range. For this tuple, there must be at least one entry in the ftent array such that:

1. ftent[i].selcrit is equal to CF_PPBUSY or
2. ftent[i].selcrit is equal to CF_PPIDLE.

**Attribute:**
avn_rec
**Fullname:**
Automatic voice network (AUTOVON) network receive
**Attribute Description:**
Indicates whether this ltm_idx can receive calls from the AUTOVON network.

Range of values: DBYES, DBNO.

Default: DBYES or DBNO. If there is a PP feature, the default is DBYES. Otherwise, the default is DBNO.

Dependencies: If the global office parameter, Gldsnopt, is set to DBYES, then avn_rec must also be set to DBYES.

**Attribute:**
dir_stn
**Fullname:**
Direct station select feature
**Attribute Description:**
Indicates whether this ltm_idx has been assigned the direct station select feature.

Range of values: DBYES, DBNO.

Default: DBNO.

Dependencies: If set to DBYES, then a one-digit speed calling list must exist for this line. Therefore, verify that for the port

```
RLltm_port(ltm_idx).port
if RLpp_ltm.ltm_type == LTM_OTHER,
or
RLis_line(ltm_idx, lead_module).lead_port
if RLpp_ltm.ltm_type == LTM_ISDN.
```

**Attribute:**

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avn_orig

**Fullname:**

AUTOVON originate

**Attribute Description:**

Indicates whether calls to the AUTOVON network can be made from this line.

Range of values: DBYES, DBNO.

Default: DBNO.

Dependencies: If the global office parameter, Gldsonpt, is set to DBYES, then avn_orig must also be set to DBYES.

**Attribute:**

dnft_cnt

**Fullname:**

DN features counts

**Attribute Description:**

Indicates the number of DN features assigned within this bfgid.

Range of values: 0-30.

Default: Zero.

**Attribute:**

def_svc

**Fullname:**

Default service

**Attribute Description:**

Flag to indicate this tuple is used to provide default service for a DSL.

Range of values: DBYES or DBNO.

Default: DBNO.

Dependency:

```
If RLbfgmatch.def_svc is DBYES then,
then begin
        find exactly 1 tuple per GPD SM in RLfc_line
        where (RLfc_line.port is (BFGID_MASK | RLbfgmatch.bfgid)
           and (RLfc_line.party is FCP_DFLTSVC)
        when found
        begin
             RLbfgmatch.bill_dn is RLfc_line.bill_dn :
        end:
             find at least 1 tuple in RLckt_port on all
             where (RLckt_port.cktname equals GLBFGHCKT and
                    RLckt_port.port_indx equals RLbfgmatch.bfgid)
             when found
```

```
                  begin
                        must find exactly 1 tuple per GPD SM in RLfc_line
                        where (RLfc_line.port.member is RLckt_port.port
                           and RLfc_line.port.module is 0
                           and RLfc_line.party is FCP_DFLTSVC)
                        when found
                        begin
                            RLbfgmatch.bill_dn is RLfc_line.bill_dn :
                        end
                   end
```

When RLbfgmatch.def_svc is DBNO then the BFG is not assignable for default service. If RLbfgmatch.def_svc is DBYES then this BFG is only assignable for default service (that is, not assignable as a normal BFG ).

There is a limit to the number of default service tuples that may exist in 5E5. This limit is set by two global office parameters: Gldfltcnt and Gldfltmax. Refer also to uhdr/data/GLpoprules.G for more information about those parameters. For 5E5, the maximum number of default service BFGs is 255.

Global parameters exist to establish the maximum (Gldfltmax) and current (Gldfltcnt) number of default service BFGs that can exist in an office. ODA initially populates the Gldfltcnt value by counting the number of tuples in the relation with def_svc set to DBYES. RC must administer the Gldfltcnt on inserts and deletes.

**Attribute:**
acrngbktyp
**Fullname:**
LASS automatic callback distinctive ringback pattern
**Attribute Description:**
Type of LASS automatic callback distinctive ringback pattern. This attribute should be initially populated with ringing cadence DR_C.

Range of values: DR_A, DR_B, DR_C, DR_D.

Default: DR_C.

Dependency: None.

**Attribute:**
arrngbktyp
**Fullname:**
LASS automatic recall distinctive ringback pattern
**Attribute Description:**
Type of LASS automatic recall distinctive ringback pattern. This attribute should be initially populated with ringing cadence DR_C.

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Range of values: DR_A, DR_B, DR_C, DR_D.

Default: DR_C.

Dependency: None.

**Attribute:**
max_bchan
**Fullname:**
Maximum B-channels
**Attribute Description:**
Maximum number of B-channels that may be used simultaneously by this user.

Range of values: Zero - one.

Default: Zero.

Dependency: If RLbfgmatch.max_bchan is not zero then RLbfgmatch.def_svc is DBYES. See also the def_svc dependencies section.

**Attribute:**
hotline
**Fullname:**
Hotline
**Attribute Description:**
This attribute indicates whether this port is a hotline or not.

Range of values: NOT_HL, MSTR_VOICE, MSTR_DATA, SLV_VOICE, SLV_DATA, NOT_MS_VOICE or NOT_MS_DATA.

Default: NOT_HL.

Dependencies: If set to MSTR_VOICE, MSTR_DATA, SLV_VOICE, SLV_DATA, NOT_MS_VOICE, or NOT_MS_DATA, then ltm_type equals LTM_OTHER, RLfc_line.nodial equals FCND_DIRCON, and the servclass in RLfc_porttyp must equal FC_4WIRE_INDV or FC_INDVDL. If the port in RLfc_porttyp is assigned as a member of an MLHG, then hotline must equal NOT_HL.

**Attribute:**
ldst_cw
**Fullname:**
Distinctive CW tone for long distance calls
**Attribute Description:**
This attribute can not be changed from the default unless the special feature ID SFID091 is turned on.

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**Attribute:**
alert_type
**Fullname:**
Alert type
**Attribute Description:**
The alert_type field is for use by the Call Waiting Deluxe (CWD) Special feature (SFID 145) in the 5E10.1 SR. If alert_type is set to OFC_ALERT, then the actual value which call processing uses is stored in the Glcwalert global office parameter.

**Attribute:**
cwd_dflt
**Fullname:**
Call waiting deluxe default option
**Attribute Description:**
The cwd_dflt field is for use by the Call Waiting Deluxe (CWD) Special feature (SFID 145) in the 5E10.1 SR. This field stores the default option (ringing, forward, announcement) taken when the CWD subscriber gets call waited and no action is taken by the subscriber. If cwd_dflt is set to OFC_DFLTOPT, then the actual value which call processing uses is stored in the Glcwdefopt global office parameter.

**Attribute:**
cwd_usgsens
**Fullname:**
Call waiting deluxe usage sensitive for conferencing
**Attribute Description:**
The cwd_usgsens field is for use by the Call Waiting Deluxe (CWD) Special feature (SFID 145) in the 5E10.1 SR. This field is set to DBYES when usage sensitive billing for conferencing after being call waited is required. If cwd_usgsens is set to OFC_CONF, then the actual value which call processing uses is stored in the Glcwconf global office parameter.

**Attribute:**
asi_gpid
**Fullname:**
Advanced service interface (ASI) group ID.
**Attribute Description:**
ASI group to which this line belongs.

Dependencies: The port must be assigned to an existing ASI group with a non-zero ASI group ID.

For each non-zero ASI group ID, a tuple must exist in RLasi_gp such that:

RLasi_gp.grp_id equals asi_gpid

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**Attribute:**
serv_code
**Fullname:**
Service code
**Attribute Description:**
Implicit mode service code digits.

The domain DMbcd5_6 supports up to six BCD digits plus a count of the actual number of digits stored. The service code may contain one to five digits, inclusive (1 <= number of digits <= 5). Number of digits = "\0" means no service code exists.

The digits are stored in BCD format, two per character (byte). The domain has three characters to represent up to six digits plus one character for the number of digits (the number of digits character is required by the I/O type). If the number of digits is less than six, the null character (which becomes same as digit 0 in BCD) is used to fill the remaining digits. The 'number of digits' character always contains the number of digits. The digits are stored in the attribute starting with D1.

Layout follows:

| byte 0 | byte 1 | byte 2 | byte 3 |
|---|---|---|---|
| D1 \| D2 | D3 \| D4 | D5 \| D6 | no. dig |

**Attribute:**
ra_code
**Fullname:**
Remote access code
**Attribute Description:**
Remote access code digits.

**Attribute:**
remr_code
**Fullname:**
Remote access reconnect code
**Attribute Description:**
Remote access reconnect code digits.

**Attribute:**
asi1_code

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**Fullname:**
Advanced service interface spare1 code
**Attribute Description:**
Spare access code digits for future ASI use.

Currently not in use therefore the only legal value is the default value. See the general section for a description of the attributes layout.

**Attribute:**
asi2_code
**Fullname:**
Advanced service interface spare2 code
**Attribute Description:**
Spare access code digits for future ASI use.

Currently not in use therefore the only legal value is the default value. See the general section for a description of the attributes layout.

**Attribute:**
asi_sid
**Fullname:**
ASI subscriber identification
**Attribute Description:**
Identify subscriber to intelligent peripheral (IP).

The subscriber ID is a number of one to ten digits, inclusive (1 <= number of digits <= 10). Number of digits = "\0" means no ID has been associated with the feature.

The digits are stored in BCD, two per character (byte). The domain has five characters for the ten digits plus one character for the number of digits (number of digits character is required by the I/O type). If the number of digits is less than ten, the null character (which becomes same as digit 0 in BCD) is used to fill the remaining digits. The number of digits character always contains the number of digits. The digits are stored in the attribute starting with D1.

Layout follows:

| byte 0 | byte 1 | byte 2 | byte 3 | byte 4 | byte 5 |
|---|---|---|---|---|---|
| D1 \| D2 | D3 \| D4 | D5 \| D6 | D7 \| D8 | D9 \| D10 | no. dig |

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**Attribute:**
asi_ra
**Fullname:**
ASI remote access billing option
**Attribute Description:**
Permit AMA billing for calls to the IP which went through the remote access front end process.

**Attribute:**
ip_dial_bill
**Fullname:**
IP dialed billing option
**Attribute Description:**
Permit all IP dialed calls to generate an AMA billing record.

**Attribute:**
ex_bill
**Fullname:**
Explicit billing
**Attribute Description:**
Permit AMA billing for explicit access to the IP.

**Attribute:**
ffcf1
**Fullname:**
Future field 1
**Attribute Description:**
future field feature use.

**Attribute:**
ffcf2
**Fullname:**
Future field 2
**Attribute Description:**
future field feature use.

**Attribute:**
ffcf3
**Fullname:**
Future field 3
**Attribute Description:**
future field feature use.

**Attribute:**
ffcf4
**Fullname:**

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Future field 4

**Attribute Description:**

future field feature use.

**Attribute:**

priv_dn

**Fullname:**

Private directory billing number

**Attribute Description:**

Private directory billing number (0 to $SZDNUM digits) for this port for MDR (customer location [CL] or revenue accounting office [RAO]).

Default: priv_dn.digcnt equals zero and priv_dn.dn[] = "\0".

Dependencies: None.

**Attribute:**

priv_dn.digcnt

**Fullname:**

Digit counts

**Attribute Description:**

Number of digits in the Private directory billing number (0 to $SZDNUM digits) for this port for MDR (CL or RAO).

Default: priv_dn.digcnt equals zero and priv_dn.dn = "\0".

Dependencies: None.

**Attribute:**

priv_dn.dn

**Fullname:**

Private DN

**Attribute Description:**

Private directory billing number (0 to $SZDNUM digits) for this port for MDR (CL or RAO).

Default: priv_dn.digcnt equals zero and priv_dn.dn = "\0".

Dependencies: None.

**Attribute:**

bill_dn

**Fullname:**

Billing DN

**Attribute Description:**

Billing directory number (BDN).

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Range of values: 15 digit DN.

Default: 'digcnt' equals zero.

Dependency: If RLbfgmatch.bill_dn.digcnt is not zero then RLbfgmatch.def_svc is DBYES. See also the def_svc dependency section.

**Attribute:**
bill_dn.digcnt
**Fullname:**
Billing directory number count
**Attribute Description:**
Same as seen previously..

**Attribute:**
bill_dn.dn
**Fullname:**
Billing directory number
**Attribute Description:**
Same as seen previously..

## 6. BFGMATCH Population rules continued.

**Attribute:**
dir_conn_dn
**Fullname:**
Direct connect prestored extended-digits string
**Attribute Description:**
Direct connect prestored extended-digits string

Range of values: 15 digits.

Default: No default or NULL. If there is a MW feature, the default is none. Otherwise, the default is NULL.

Dependencies: If dir_conn_dn is greater than zero, then RLmwcf.cntrl equals DIR_CONN.

**Attribute:**
dir_conn_dn.digcnt
**Fullname:**
Digits counts
**Attribute Description:**
Same as seen previously..

**Attribute:**
dir_conn_dn.dn
**Fullname:**
Direct connect DN

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**Attribute Description:**
Same as seen previously..

**Attribute:**
cnigi
**Fullname:**
Calling number identification service delivery option.
Intra-Group Only.
**Attribute Description:**
The cnigi field indicates whether members of the terminal group have restrictions on delivery of calling party number and forwarding number information, as provided by the CNIS, CPN/BND, RN Delivery, CgPS Delivery and ICLID features. Based on the cnigi field, these may be restricted to intra-group calls only. CNIGI is NOT a separate assignable feature. This per-line cnigi field, if not set to FCNULLCNIGI overwrites per-terminal-group and per-office field.

The possible settings of Intra-group CNIS option are:

FCNULLCNIGI- Default. Consult the RLrt_tg.cnigi, or if the tuple does not exist, consult Glcnigi Office Parameter.

FCNRSTCNIGI- No Restrictions apply to Display/deliver CPN or RN information on all calls.

FCIGOCNIGI - Display/deliver CPN or RN information only on intra-group calls.

**Attribute:**
tcw
**Fullname:**
talking call waiting
**Attribute Description:**

tcw contains a value that indicates that the customer not only has a terminating call waiting feature but a value of DBYES means that the customer has the talking call waiting feature which announces the name of the party trying to call.

This attribute can not be changed from the default unless the special feature ID SFID331 is turned on.

**Defines:**
"db/DMparty.h",
"db/DMdnum.h",
"db/DMnpa.h"

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# BIKYPM

## 1. Description

This relation associates key status of hunt keys with hunt group and member.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 512 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| l1 length of subkey1 | 8 |
| p1 position of subkey1 | 0 |
| l2 length of subkey2 | 4 |
| p2 position of subkey2 | 16 |
| l3 length of subkey3 | 5 |
| p3 position of subkey3 | 20 |
| l4 length of subkey4 | 5 |
| p4 position of subkey4 | 8 |
| l5 length of subkey5 | 3 |
| p5 position of subkey5 | 25 |
| trigger function | RThktrg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBYES |
| ks key store | DBNO |

## 3. Field Layout

```
BIKYPM      relid = 898   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     grpnum      DMGRUPNM     (ushort: 13)     <--- key, not stored
     member      DMMEM        (ushort: 12)     <--- key, not stored
     subgrp      DMUNS8       (ushort: 8)
     rmbgrp      DMUNS8       (ushort: 8)
  (a) mbsytrt    DMBSYTRT     (enum: 2)
  (b) rbsytrt    DMBSYTRT     (enum: 2)
  (c) e_mbmkbsy  DMBOOL       (enum: 1)
  (d) mbmkbsy    DMBOOL       (enum: 1)
  (e) e_stphnt   DMBOOL       (enum: 1)
  (f) stphnt     DMBOOL       (enum: 1)
  (g) e_grpmkbsy DMBOOL       (enum: 1)
  (h) grpmkbsy   DMBOOL       (enum: 1)
  (i) e_posmkbsy DMBOOL       (enum: 1)
  (j) posmkbsy   DMBOOL       (enum: 1)
  (k) e_rmkbsy   DMBOOL       (enum: 1)
  (l) rmkbsy     DMBOOL       (enum: 1)
        User and Compacted Tuple Layout     BIKYPM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           |     |                           |       |
 0  |          grpnum           |*****|          member           |*******|
    |---------------+---------------+---------------+---------------|
    |               |               |   |   | | | | | | | | | | |   |
 4  |     subgrp    |     rmbgrp    | a | b |c|d|e|f|g|h|i|j|k|l|***|
```

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```
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
    subgrp      DMUNS8       (ushort: 8)
    rmbgrp      DMUNS8       (ushort: 8)
(a) mbsytrt     DMBSYTRT     (enum: 2)
(b) rbsytrt     DMBSYTRT     (enum: 2)
(c) e_mbmkbsy   DMBOOL       (enum: 1)
(d) mbmkbsy     DMBOOL       (enum: 1)
(e) e_stphnt    DMBOOL       (enum: 1)
(f) stphnt      DMBOOL       (enum: 1)
(g) e_grpmkbsy  DMBOOL       (enum: 1)
(h) grpmkbsy    DMBOOL       (enum: 1)
(i) e_posmkbsy  DMBOOL       (enum: 1)
(j) posmkbsy    DMBOOL       (enum: 1)
(k) e_rmkbsy    DMBOOL       (enum: 1)
(l) rmkbsy      DMBOOL       (enum: 1)
          Stored Tuple Layout   BIKYPM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |               |   |   | | | | | | | | | |   |
 0 |     subgrp    |     rmbgrp    | a | b |c|d|e|f|g|h|i|j|k|l|***|
   |---------------+---------------+---------------+---------------|
      ( 4 bytes )
```

## 4. Population Rules for RLbikypm

**Relation Description**

Associates key status of hunt keys with hunt group and number.

**Attribute: grpnum**

**Fullname:** Multiline hunt group number

**Attribute Description** The following rules apply based on the value of RLrt_mhg.isat_idx:

```
For this grpnum, if RLrt_mhg(grpnum).isat_idx ! = 0 then
    subgrp = 0
    e_mbmkbsy = DBNO
    mbmkbsy = DBNO
    e_stphnt = DBNO
    stphnt = DBNO
    e-grpmkbsy = DBNO
    grpmkbsy = DBNO
For this grpnum, if RLrt_mhg(grpnum).isat_idx = 0 then
    e_posmkbsy = DBNO
    posmkbsy = DBNO
```

**Attribute: member**

**Fullname:** Hunt group number

**Attribute Description:** Multiline hunt group member that the huntkeys are assigned to.

**Attribute: subgrp**

**Fullname:** Member Make Busy(MMB) Subgroup number

**Attribute Description:** Used to store the member make busy group. If this value is non-zero then

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there must be a tuple in ISTMBLST where ISTMBLST.subgrp = BIKYPM.subgrp. Up to 32 different MLHG members can be assigned to the same MMB subgroup, and RLISTMBLST contains a list of all MLHG members that are assigned to the same subgroup. Any member of a MMB subgroup that has a MMB key assigned may activate or deactivate the MMB feature for the entire subgroup. A MLHG member may be part of a MMB subgroup and not have a MMB key assigned - yet this member will still be activated/deactivated by other subgroup members activating/deactivating their MMB keys. When a subgroup member activates its MMB key, the MMB lamps for all members that have MMB keys assigned will be lighted, and the dynamic hunting data for all MMB subgroup members will be busied, and all subgroup members will not be available to accept hunted calls to the Multiline Hunt Group.

**Attribute: e_mbmkbsy**

**Fullname:** Does a member make busy feature button exist for this member?

**Attribute Description:** DBYES if the member make busy feature button exists. (The button exists if there is a tuple in RLbnfeat with RLbnfeat.action = ACN_BYMB.)

**Attribute: mbmkbsy**

**Fullname:** Is member make busy key on?

**Attribute Description:** This is a CORCable only field that is ONLY set to DBYES when the member make busy feature button is activated, (and subsequently set to DBNO when the member make busy feature button is deactivated). When initializing this tuple and e_mbmkbsy = DBYES, then set mbmkbsy = DBNO. Dependencies: If e_mbmkbsy is DBNO, mbmkbsy should be DBNO.

**Attribute: e_stphnt**

**Fullname:** Does a stop hunt feature button exist for this member?

**Attribute Description:** DBYES if the stop hunt feature button exists. (The button ixists if there is a tuple in RLbnfeat with RLbnfeat.action = ACN_STPH.)

**Attribute: stphnt**

**Fullname:** Is the stop hunt feature button on?

**Attribute Description:** This a CORCable only field that is ONLY set to DBYES when the stop hunt feature button is activated, (and subsequently set to DBNO when the stop hunt feature button is deactivated). When initializing this tuple and e_stphnt = DBYES then set stphnt = DBNO. Dependencies: If e_stphnt is DBNO, stphnt should be DBNO.

**Attribute: e_grpmkbsy**

**Fullname:** Does a group make busy feature button exist for this member?

**Attribute Description:** DBYES if the group make busy feature button exists. (The button exists if there is a tuple in RLbnfeat with RLbnfeat.action = ACN_BYGP.) If DBYES, there must be a tuple in RLrt_mhg keyed by this grpnum such that RLrt_mhg.grpmkbusy = DBYES.

**Attribute: grpmkbsy**

**Fullname:** Is group make busy feature button on?

**Attribute Description:** This is a CORCable only field that is ONLY set to DBYES when the group make busy feature button is activated, (and subsequently set to DBNO when the group make busy feature button is deactivated). Only Member 1 of a Hunt group can activate/deactivate a Group MAke busy key. When initializing this tuple and e_grpmkbsy = DBYES, then set grpmkbsy = DBNO. Dependencies: If e_grpmkbsy is DBNO, grpmkbsy should be DBNO.

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**Attribute: e_posmkbsy**

**Fullname:** Does a position make busy feature button exist for this member?

**Attribute Description:** DBYES if the position make busy feature button exists. (The button exists if there is a tuple in RLbnfeat with RLbnfeat.action = ACN_BYPO.)

**Attribute: posmkbsy**

**Fullname:** Is position make busy feature button on?

**Attribute Description:** This is a CORCable only field that is ONLY set to DBYES when the position make busy feature button is activated, (and subsequently set to DBNO when the position make busy feature button is deactivated). When initializing this tuple and e_posmkbsy = DBYES, then set posmkbsy = DBNO. Dependencies: If e_posmkbsy is DBNO, posmkbsy should be DBNO.

**Attribute: e_rmkbsy**

**Fullname:** Does a random make busy feature button exist?

**Attribute Description:** DBYES if the random make busy feature button exists. (The button exists is there is a tuple in RLbnfeat with RLbnfeat.action = ACN_BYRB)

**Attribute: rmkbsy**

**Fullname:** Random Make Busy Active?

**Attribute Description:** This is a CORCable only field that is ONLY set to DBYES when the random make busy feature button is activated (and set to DBNO when the random make busy feature is deactivated.)

**Attribute: rmbgrp**

**Fullname:** Random Make Busy Subgroup

**Attribute Description:** Used to store the Random Make Busy Group. If this value is non-zero then there must be a tuple in ISRMBLST where ISRMBLST.rmbgrp = BIKYPM.rmbgrp. A Random Make Busy subgroup can contain from 1 to 2015 members(unlike Member Make busy subgroup which has a maximum of 32 members). All Random Make Busy Subgroup members are found in the mbr_list attribute of RLisrmblst(this relation is keyed by MLHG group and rmbgrp). Only the Random Make Busy Subgroup Owner(specified in RLisrmblst.fbown) is allowed to activate and deactivate the feature for the entire subgroup. When the Random Make Busy Subgroup owner activates its Random Make Busy key, the Random Make Busy Lamp is lighted for the owner, and the dynamic hunting data for the entire rmbgrp is busied - and all rmbgrp members cannot receive hunted calls to the MLHG.

**Attribute: mbsytrt**

**Fullname:** Call termination busy treatment assigned to a Member Make Busy key

**Attribute Description:** Call termination busy treatment assigned to a Member/position Make Busy key. When the Member Make Busy key is activated, the individual member(subgrp is zero) or each member of the subgroup (subgrp > 0) is busied for the different call termination types depending on the call termination busy treatment assigned. Types of call termination busy treatment:

RMBBOTH: - Member Make Busy key makes the member(s) unavailable(busy) for terminations by either hunted/nohunt calls

RMBHUNT: - Member Make Busy key makes the member(s) unavailable(busy) for terminations by hunted calls only

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RMBNOHUNT: - Member Make Busy key makes the member(s) unavailable(busy) for terminations by nohunted calls only

When this member is part of a non-ISAT MLHG (RLrt_mhg.htype != RTH_ISAT), this specifies the call termination type for a member make busy button on an individual member that does not belong to a member make busy subgroup.

When this member is part of a ISAT MLHG, (RLrt_mhg.htype = RTH_ISAT), this specifies the call termination type for a position make busy button for this member.

**Attribute: rbsytrt**

**Fullname:** Call termination busy treatment for assigned to a Random Make Busy key.

**Attribute Description:** Call termination busy treatment for assigned to a Random Make Busy key. When the Random Make Busy key is activated, the individual member(rmbgrp is zero) or each member of the subgroup (rmbgrp > 0) is busied for the different call termination types depending on the call termination busy treatment assigned. Types of call termination busy treatment:

RMBBOTH: - Random Make Busy key makes the member(s) unavailable(busy) for terminations by either hunted/nohunt calls

RMBHUNT: - Random Make Busy key makes the member(s) unavailable(busy) for terminations by hunted calls only

RMBNOHUNT: - Random Make Busy key makes the member(s) unavailable(busy) for terminations by nohunted calls only

This specifies the call termination type for a random make busy button on an individual member that does not belong to a random make busy subgroup.

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# BILLGRP

## 1. Description

Billing Group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
BILLGRP     relid = 2192  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     group       DMUSHORT     (ushort)     <--- key
     cocgrp      DMUSHORT     (ushort)
     oaff6       DMUSHORT     (ushort)
     cardgrp     DMUNS8       (ushort: 8)
     oaff1       DMUNS4       (ushort: 4)
 (a) oaff2       DMBOOL       (enum: 1)
 (b) oaff3       DMBOOL       (enum: 1)
 (c) oaff4       DMBOOL       (enum: 1)
 (d) oaff5       DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout    BILLGRP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             group             |             cocgrp            |
    |---------------+---------------+---------------+---------------|
    |                               |               |       | | | | |
  4 |             oaff6             |    cardgrp    | oaff1 |a|b|c|d|
    |---------------+---------------+---------------+---------------|
                          ( 8 bytes )
```

## 4. Population Rules for RLbillgrp

**Relation Description**

RLbillgrp

RLbillgrp is a spare relation for OSPS special feature use.

**Attribute: group**

**Fullname:** Billing group number.

**Attribute Description:** Number identifying a specific billing group.

**Attribute: cocgrp**

**Fullname:** Class of charge mask.

**Attribute Description:** Unused at this time.

**Attribute: cardgrp**

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**Fullname:** Card group number.

**Attribute Description:** Number identifying a specific card group.

**Attribute: oaff1**

**Fullname:** uns4 spare.

**Attribute Description:** Unused.

**Attribute: oaff2**

**Fullname:** boolean spare.

**Attribute Description**: Unused.

**Attribute: oaff3**

**Fullname:** boolean spare.

**Attribute Description:** Unused.

**Attribute: oaff4**

**Fullname:** boolean spare.

**Attribute Description:** Unused.

**Attribute: oaff5**

**Fullname:** boolean spare.

**Attribute Description:** Unused.

**Attribute: oaff6**

**Fullname:** ushort spare.

**Attribute Description:** Unused.

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# BILLPLBL

## 1. Description

Table of labels for printed bills.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
BILLPLBL    relid = 2070  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     code        DMBCD8       (ulong)     <--- key
     anitbl      DMANITBL     (ushort: 15)     <--- key
 (a) spare1      DMBOOL       (enum: 1)
     locdigs     DMLINENO     (ushort: 14)     <--- key
 (b) codetype    DMBILLPLBL   (enum: 2)     <--- key
     label       DMCTXT12     (array [ 12 ] of char )
         User, Compacted and Stored Tuple Layout   BILLPLBL
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                              code                             |
    |---------------+---------------+---------------+---------------|
    |                               | |                           |   |
  4 |            anitbl             |a|          locdigs          | b |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                              label                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                              label                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                              label                            |
    |---------------+---------------+---------------+---------------|
                           ( 20 bytes )
```

## 4. Population Rules for RLbillplbl

**Relation Description** Bill print label table. This relation holds labels for printing on bills per subaccount billing account code or concentrated calling feature override code per automatic number identification (ANI). The feature is not committed, so this is spare data created just in case.

**Attribute: anitbl**

**Fullname:** Automatic Number Identification Table Index

**Attribute Description**: Obtained from the RLanimod relation.

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**Attribute: spare1**

**Fullname:** Spare 1

**Attribute Description:** Spare field.

**Attribute: locdigs**

**Fullname:** Local Line Number of ANI

**Attribute Description**: The local line number; the last four digits of the ANI.

**Attribute: codetype**

**Fullname:** Code Type

**Attribute Description:** Type of code stored in code.

**Attribute: code**

**Fullname:** Code

**Attribute Description:** Subaccount billing account code or concentrated calling feature override code.

**Attribute: label**

**Fullname:** Label

**Attribute Description:** Label to be printed on the customer's bill.

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# BLDN_G

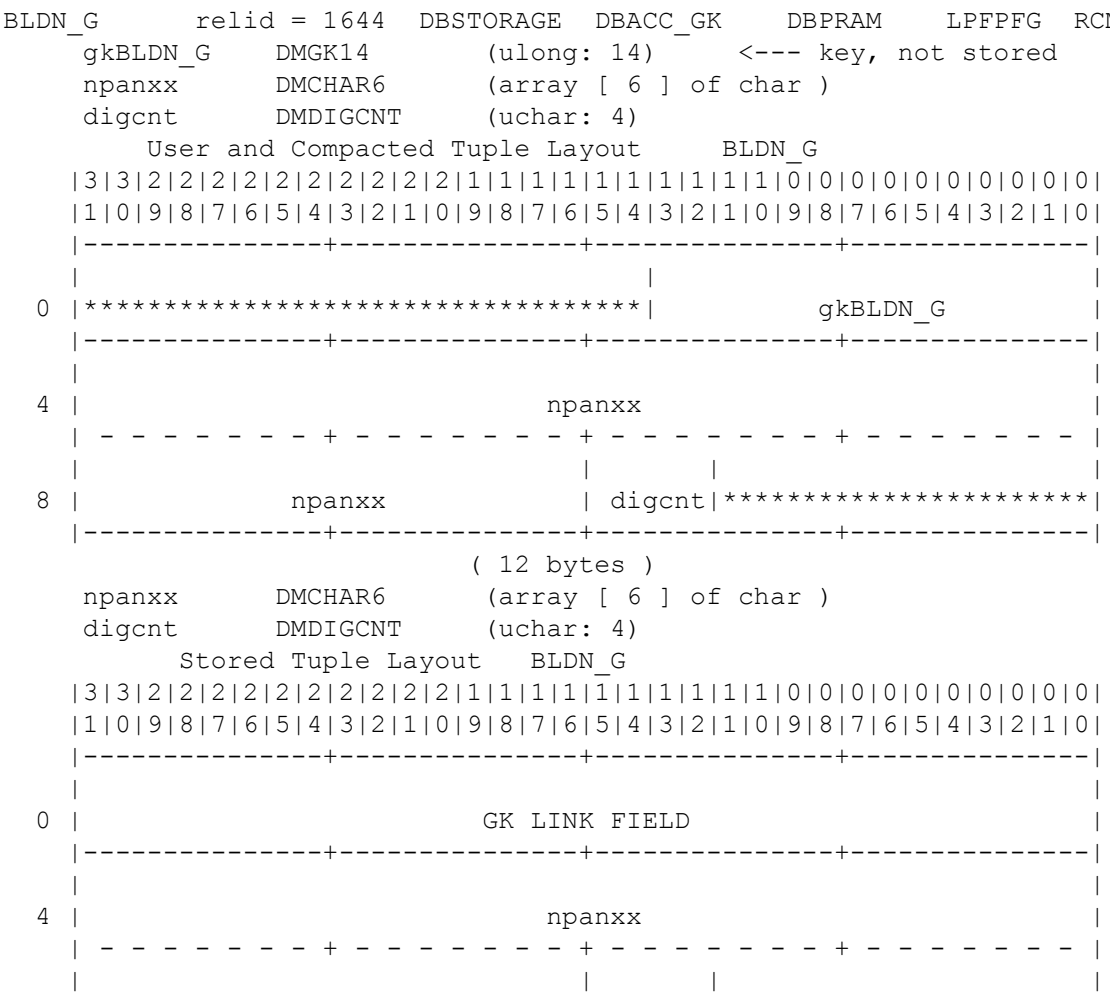
## 1. Description

Individual line billing directory number. This is a child storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1536 |
| expected tuples in relation | 20 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTORAGE |
| head table size | 1024 |
| data page size | 512 |
| page level | 2 |
| index length | 0 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel GK-index relation | rlBLDN_I |

## 3. Field Layout

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```
  8 |             npanxx            | digcnt|**********************|
    |---------------+---------------+---------------+---------------|
                              ( 12 bytes )
```

## 4. Population Rules for RLbldn_g

There are no population rules for this relation.

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# BLVEXCL

## 1. Description

This relation contains a tuple for each NPA-NXX code in relation RLblvscrn marked as having lines excluded from verification. Up to 96 bands of lines may be excluded from verification per NPA-NXX. There are a maximum of 6 bands per tuple and a maximum of 16 tuples per NPA-NXX.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
BLVEXCL     relid = 919   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     exclky      DMTUPNUM     (uchar: 4) <--- key
     bnxx        DMBINNPA     (ushort: 10) <--- key
     tupnum      DMTUPNUM     (uchar: 4) <--- key
     entries     DMUNS7       (ushort: 7)
     lnnums0     DMUSHORT     (ushort)
     lnnums1     DMUSHORT     (ushort)
     lnnums2     DMUSHORT     (ushort)
     lnnums3     DMUSHORT     (ushort)
     lnnums4     DMUSHORT     (ushort)
     lnnums5     DMUSHORT     (ushort)
     lnnume0     DMUSHORT     (ushort)
     lnnume1     DMUSHORT     (ushort)
     lnnume2     DMUSHORT     (ushort)
     lnnume3     DMUSHORT     (ushort)
     lnnume4     DMUSHORT     (ushort)
     lnnume5     DMUSHORT     (ushort)
         User, Compacted and Stored Tuple Layout    BLVEXCL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |       |                   |   |       |             |         |
  0 | exclky|        bnxx       |***| tupnum|   entries   |*********|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            lnnums0            |            lnnums1            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            lnnums2            |            lnnums3            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |            lnnums4            |            lnnums5            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 16 |            lnnume0            |            lnnume1            |
```

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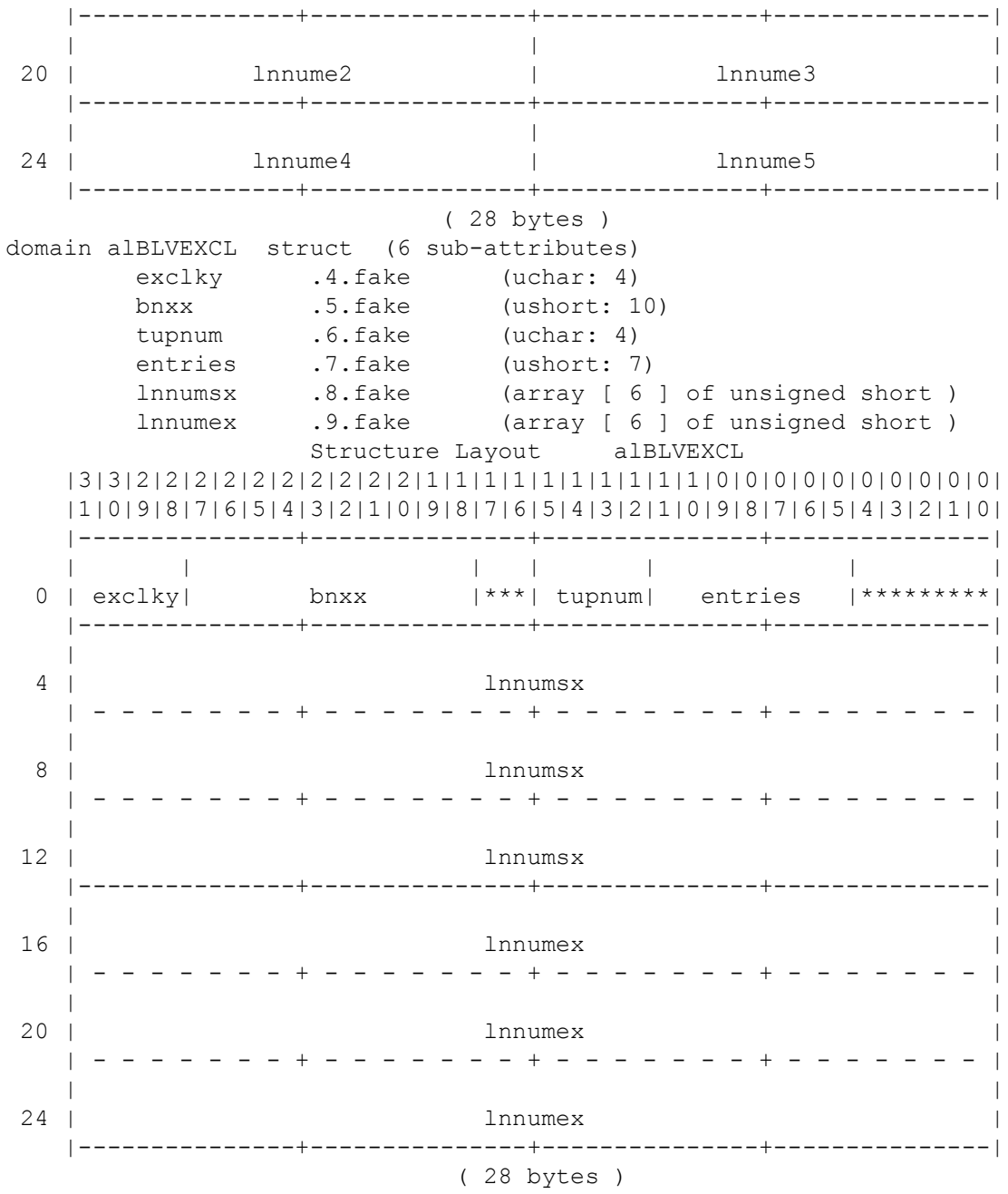


## 4. Population rules for RLblvexcl

### Relation Description

BLV exclusion

This relation contains a tuple for each NPA-NXX code in relation RLblvscrn marked as having lines excluded from verification by the OSPS operator. NXXs are identified as having line exclusions through a value of either OAVER_EXCL (the NXX is verifiable but some line numbers are not verifiable) or OANVER_EXCL (NXX is not verifiable for non-ported numbers but has some exclusions for ported numbers). Up to 96 bands of lines may be excluded from verification per NPA-NXX. There are a maximum of 6 bands per

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tuple and a maximum of 16 tuples per NPA-NXX.
RLblvexcl contains from 1 to 16 tuples for each NPA-NXX that has lines excluded from verification as indicated in relation RLblvscrn. There are a maximum of 200 tuples per OSPS office. The average number of tuples is 1. This data is located in the PSMs only.
The permutation type is un_perm to guarantee that the alternate relation definition has the same alignment as the relation.

**Attribute:**
exclky
**Fullname:**
EXCLuded KeY
**Attribute Description:**
This is the primary key.It is a number (0-15) retrieved from RLblvscrn when an NPA has some line numbers excluded from verification. It is a denser way to indicate the NPA

**Attribute:**
bnxx
**Fullname:**
binary NXX
**Attribute Description:**
This is the NXX in binary form and is the secondary key.

**Attribute:**
tupnum
**Fullname:**
tuple number
**Attribute Description:**
This key is a sequential number from 0 to 15 and always starts at 0 for each unique exclkey/bnxx. Each tuple can handle 6 ranges. If there are 7-12 ranges the second tuple will have a tuple number of 1, for 13-18 ranges, the third tuple will have tuple number of 2, and so forth.

**Attribute:**
entries
**Fullname:**
entries
**Attribute Description:**
This value represents the number of ranges specified for each unique exclky/bnxx. For example, if there are 15 ranges specified for a exclky/bnxx, the entries attribute will be 15 for all 3 tuples for this exclky/bnxx. entries can range from 1 to 96.
**Attribute:**
lnnums0
**Fullname:**
line number
**Attribute Description:**
There are 12 lnnum fields grouped in 6 pairs, each presenting a range. lnnums0 is the lower bound of a contiguous group of line numbers excluded from operator verification. lnnume0 is the upper bound for

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this group of line numbers. Up to 96 bands may be specified per NPA-NXX. The ranges should be populated in ascending order; that is, lnnums0 < lnnums1, etc. whenever a range is deleted, the ranges should be compressed so there are no empty ranges between used There should not be any overlap in the ranges. If a single line is to be excluded from verification, the lnnumsx and lnnumex (where x is 0 to 5) should be the same value.

**Attribute:**
lnnums[*]
**Fullname:**
line number
**Attribute Description:**
There are 12 lnnum fields grouped in 6 pairs, each presenting a range. lnnums0 is the lower bound of a contiguous group of line numbers excluded from operator verification. lnnume0 is the upper bound for this group of line numbers. Up to 96 bands may be specified per NPA-NXX. The ranges should be populated in ascending order; that is, lnnums0 < lnnums1, etc. whenever a range is deleted, the ranges should be compressed so there are no empty ranges between used There should not be any overlap in the ranges. single line is to be excluded from verification, the lnnumsx and lnnumex (where x is 0 to 5) should be the same value.

**Attribute:**
lnnume[*]
**Fullname:**
line number
**Attribute Description:**
**** SEE lnnums0 ****

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# BLVSCRN

## 1. Description

This relation contains the NPAs that can be verified using the busy line verification feature. There is also a 2 bit field for each of the 800 possible NXX codes in the NPA. This field indicates if (0) the entire NXX is verifiable, (1) some line numbers in the NXX are excluded from verification and (2) the NXX is not valid or cannot be verified at this OSPS. This relation also contains a 3 digit routing code for each NPA.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
BLVSCRN     relid = 1013  DBSTATIC   DBACC_LIN   DBPRAM    FG      NULL
     blvnpa      DMBINNPA     (ushort: 10) <--- key
     blvrtcde    DMBLVRTCDE   (uchar: 8)
     exclky      DMTUPNUM     (uchar: 4)
     vfbits00    DMOAH32      (ulong)
     vfbits01    DMOAH32      (ulong)
     vfbits02    DMOAH32      (ulong)
     vfbits03    DMOAH32      (ulong)
     vfbits04    DMOAH32      (ulong)
     vfbits05    DMOAH32      (ulong)
     vfbits06    DMOAH32      (ulong)
     vfbits07    DMOAH32      (ulong)
     vfbits08    DMOAH32      (ulong)
     vfbits09    DMOAH32      (ulong)
     vfbits10    DMOAH32      (ulong)
     vfbits11    DMOAH32      (ulong)
     vfbits12    DMOAH32      (ulong)
     vfbits13    DMOAH32      (ulong)
     vfbits14    DMOAH32      (ulong)
     vfbits15    DMOAH32      (ulong)
     vfbits16    DMOAH32      (ulong)
     vfbits17    DMOAH32      (ulong)
     vfbits18    DMOAH32      (ulong)
     vfbits19    DMOAH32      (ulong)
     vfbits20    DMOAH32      (ulong)
     vfbits21    DMOAH32      (ulong)
     vfbits22    DMOAH32      (ulong)
     vfbits23    DMOAH32      (ulong)
     vfbits24    DMOAH32      (ulong)
     vfbits25    DMOAH32      (ulong)
     vfbits26    DMOAH32      (ulong)
     vfbits27    DMOAH32      (ulong)
     vfbits28    DMOAH32      (ulong)
     vfbits29    DMOAH32      (ulong)
```

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```
     vfbits30    DMOAH32      (ulong)
     vfbits31    DMOAH32      (ulong)
     vfbits32    DMOAH32      (ulong)
     vfbits33    DMOAH32      (ulong)
     vfbits34    DMOAH32      (ulong)
     vfbits35    DMOAH32      (ulong)
     vfbits36    DMOAH32      (ulong)
     vfbits37    DMOAH32      (ulong)
     vfbits38    DMOAH32      (ulong)
     vfbits39    DMOAH32      (ulong)
     vfbits40    DMOAH32      (ulong)
     vfbits41    DMOAH32      (ulong)
     vfbits42    DMOAH32      (ulong)
     vfbits43    DMOAH32      (ulong)
     vfbits44    DMOAH32      (ulong)
     vfbits45    DMOAH32      (ulong)
     vfbits46    DMOAH32      (ulong)
     vfbits47    DMOAH32      (ulong)
     vfbits48    DMOAH32      (ulong)
     vfbits49    DMOAH32      (ulong)
         User, Compacted and Stored Tuple Layout    BLVSCRN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |           |               |       |       |
  0 |       blvnpa      |***********|    blvrtcde   | exclky|*******|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            vfbits00                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                            vfbits01                           |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                                                               |
196 |                            vfbits48                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
200 |                            vfbits49                           |
    |---------------+---------------+---------------+---------------|
                          ( 204 bytes )
domain alBLVSCRN  struct  (4 sub-attributes)
         blvnpa      .2.fake      (ushort: 10)
         blvrtcde    unsigned char (uchar)
         exclky      .3.fake      (uchar: 4)
         vfbitsxx    .4.fake      (array [ 50 ] of unsigned long )
                     Structure Layout     alBLVSCRN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |           |               |       |       |
```

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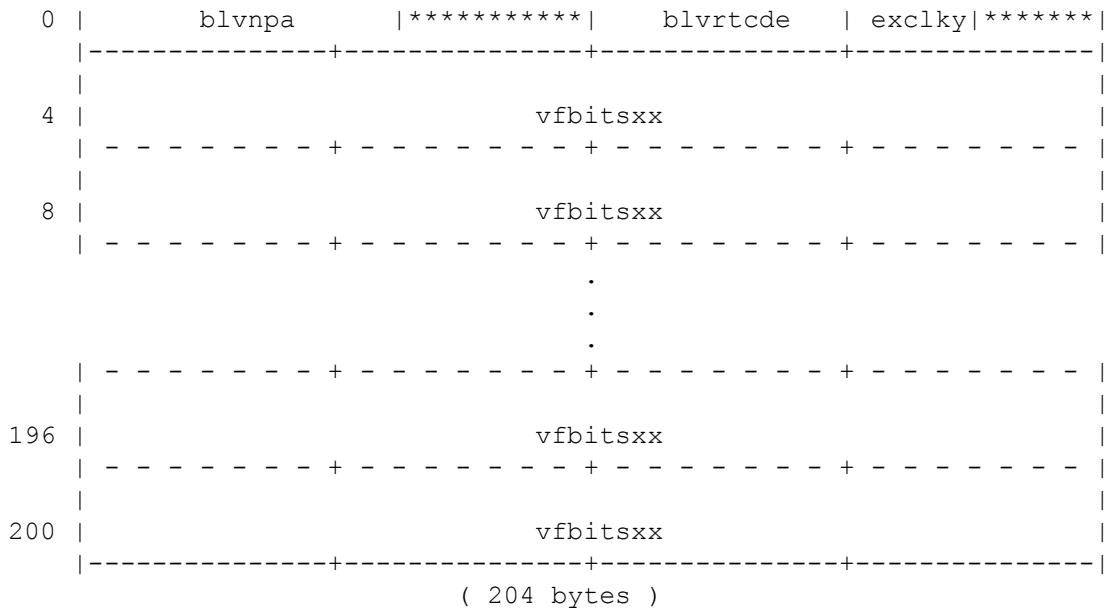


## 4. Population rules for RLblvscrn

**Relation Description**

busy line verification screen
This relation contains the NPAs that are verifiable from this OSPS office and a status for each NXX within the NPA. It also contains a routing code when busy line verification is performed by the operator.
The following summarizes all the data required for implementing the Busy Line Verification feature. This is an attempt to place all data needed by the BLV capability in one place. No attempt is made in the following to provide all the poprules for all BLV data. Also no attempt is made to specifically identify all relations and attributes for BLV.
Verifiable NPAs, verifiable NXXs, line number exclusions and BLV routing codes are described in relations - Rlblvscrn and RLblvexcl
Global data parameters that need to be specified are -

- Glblv_act - BLV feature activation bit
- Glblv_digst - BLV digit analysis starting index
- Glblvsx - BLV screening index
- Glei_limit - Indicates length of time an operator may interrupt a call before a message is printed on the security printer.
- Gleithres_ind - indicates if the above message should be printed.

Trunks (see below) used by the operator can be queued for when all members of the group are busy. The assignment rules for BLV queuing is described in the poprules for RLrt_trkg and RLqu_ogtos.
The above data represents data unique to BLV. The following represents existing data structures that BLV related data is added to.
A new digit analysis tree must be added to translate the

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BLV routing codes specified in RLblvscrn. This digit analysis tree is built to select the proper BLV trunks on BLV attempts. The digit start index is placed in Glblv_digst. Data for a new screening index must be created for BLV. The screening index is placed in Glblvsx. New outgoing trunk groups must be defined for BLV. They must have a service class of FC_BV_INTOLL or FC_BV_TOLLCMP.

**Attribute:**
blvnpa
**Fullname:**
busy line verification NPA
**Attribute Description:**
This field represents the NPAs that are verifiable by this OSPS office. The NPAs range from 200-999.

**Attribute:**
blvrtcde
**Fullname:**
busy line verification routing code
**Attribute Description:**
For each verifiable NPA, a unique routing code must be assigned. The range of values is 0 to 199. This code may replace the NPA of the called number when the operator attempts a busy line verification. The code can be used to properly route the call in the verification network. There are no default values.

**Attribute:**
exclky
**Fullname:**
excluded key
**Attribute Description:**
This is a 4-bit field used as the primary key into RLblvexcl. The field values are assigned from 0-15. Because there is a maximum of 16 NPAs served by an OSPS office, the served NPAs are mapped to exclky to provide a more dense key for RLblvexcl. Each tuple must have a unique exclky whether or not exclusions exist for this NPA.

**Attribute:**
vfbits[*]
**Fullname:**
verifiable bits
**Attribute Description:**
This is a 1600-bit bitmap stored in 50 32-bit words. There is a 2-bit field for each possible NXX in the NPA. Each vfbits contains 16 of these 2-bit enumerations. Thus, NXXs 200 to 215 will correspond to bits 0,1 to bits 30,31 within the attribute vfbits00.
A value of OAVERIFIABLE indicates that the entire NXX can be verified. A value of OAVER_EXCL indicates that some line numbers in the NXX are excluded from verification. A value of OANON_VER indicates that the NXX is not valid or

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is not verifiable by this OSPS. A value of OANVER_EXCL indicates that the NXX is not verifiable for non-ported numbers but has some exclusions for ported numbers. The default value for this item is OAVERIFIABLE.

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# BNFEAT

## 1. Description

This relation provides the relationship between the ISDN configuration group and button the function.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8000 |
| expected number of tuples | 209 |
| density | 23 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |
| corcable | DBNO |
| trigger function | TMbnfeat |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
BNFEAT      relid = 857   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP
     fid          DMMCC_FID    (ushort)
     str_param    DMFACID      (ushort)
     tsm_use_cnt  DMUSHORT      (ushort)
     config       DMCONFIG     (ulong: 12)     <--- key
     target       DMTARGET     (uchar: 4)
     action       DMMCACTN     (enum: 9)
 (a) cpe_comp     DMCPECOMP    (uchar: 3)      <--- key
 (b) digcnt       DMUNS3       (ushort: 3)
     button       DMBUTTON     (uchar: 8)      <--- key
     hgs_d4d3     DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout BNFEAT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |               fid              |           str_param           |
    |---------------+---------------+---------------+---------------|
    |                                |                       |       |
  4 |          tsm_use_cnt           |         config        | target|
    |---------------+---------------+---------------+---------------|
    |                 |     |     | |               |               |
  8 |      action     |  a  |  b  |*|     button    |    hgs_d4d3   |
    |---------------+---------------+---------------+---------------|
                           ( 12 bytes )
```

## 4. Population Rules for RLbnfeat

**Relation Description**

ISDN button to feature.

Provides relationship between ISDN configuration group and button function.

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**Attribute: cpe_comp**

**Fullname:** Customer Premises Equipment (CPE) component.

**Attribute Description:** A unit of buttons on the terminal (also known as, module in the BRI spec).

**Attribute: config**

**Fullname:** ISDN configuration identifier.

**Attribute Description:** ISDN configuration identifier. The same as in RLrc_cfgbm.config. Initially, this number must be assigned sequentially. Hole-reuse is also implemented. Must be created and put in RLfacname.facid and RLfid2name.facid before being assigned to RLis_term.config.

**Attribute: button**

**Fullname:** ISDN station set button number.

**Attribute Description:** ISDN station set button number on a component.

**Attribute: fid**

**Fullname:** feature id.

**Attribute Description:** Feature id associated with particular button. Indicates the constructed feature id. There must be a tuple in RLfacname with a facid equal to this fid including fid equal 0. Entering a fid of 0 indicates the NULL feature. The class associated with the facid in RLfacname must be equal to FACBRCS. Valid fids and actions are listed here in the following layout.

**Attribute: action**

**Fullname:** Action enumeration.

**Attribute Description:** This is the action table taken when the button is depressed.

Action Table ----------

As features add actions to this table, consideration should be given to the relation RLfeatbn.

A 'Y' in the param column indicates that digcnt may be non-zero and that a stored parameter may be entered. Any action that has a 'Y' in the param column must also add a description of that parameter and how it is obtained in the following poprules.

Button Only indicates that there is not a dialed code for this action. This is for information purposes only.

Wildcard - A 'Y' indicates that the Wildcard fid must be used for this action. A 'N' indicates that the Wildcard must not be used. An 'O' indicates that the Wildcard fid is optional and that a regular fid may be used. If a choice can be made, the Wildcard should be used. The config, MFT, and action must be unique. For Call Forwarding, the config, fid, and action must be unique.

It should be noted that the NULL feature can not have a Wildcard fid. This is indicated with an asterisk in the Wildcard column.

| Action | MF type | Target | Button Only | Param | Wildcard |
|---|---|---|---|---|---|
| ACN_ACBFBP | ACB | 1 | Y | N | O |
| ACN_ACCTUSE | ACCT | 6 | N | Y | O |
| ACN_ACCFB | AC | 1 | N | N | O |
| ACN_ACUFB | AC | 1 | N | N | O |
| ACN_AD1CH | SC | 7 | N | N | O |
| ACN_AD1USE | SC | 8 | N | Y | O |

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```
ACN_AD2CH     SC        7          N           N        O
ACN_AD2USE    SC        8          N           Y        O
ACN_ARCFB     AR        1          N           N        O
ACN_ARUFB     AR        1          N           N        O
ACN_ARS1USE   ARS       6          N           Y        O
ACN_ARS2USE   ARS       6          N           Y        O
ACN_ARSUSE    ARS       6          N           Y        O
ACN_ATACTMWI  NULL      5          N           N        *
ACN_ATDCTMWI  NULL      5          N           N        *
ACN_ATFACT    ACTR      7          N           N        O
ACN_ATFDCT    ACTR      7          N           N        O
ACN_ATGACT    ACTR      7          N           N        O
ACN_ATGDCT    ACTR      7          N           N        O
ACN_ATHUSE    ATH       6          N           Y        O
ACN_AUCUSE    NULL      6          N           N        *
ACN_AWTUSE    NULL      2          N           N        *
ACN_BNTOG     CFW       7          Y           N        N
ACN_BYGP      MLHG      1          Y           N        Y
ACN_BYMB      MLHG      1          Y           N        Y
ACN_BYPO      MLHG      1          Y           N        Y
ACN_BYRB      MLHG      1          Y           N        Y
ACN_CCL       PUO       6          N           N        N
ACN_CLWCUSE   MDS       5          N           N        Y
ACN_CNDFBP    LID       7          N           N        O
ACN_CNPUSE    DISP      7          N           N        Y
ACN_CONFUSE   NULL      5          Y           N        *
ACN_COTFBP    COT       7          N           N        O
ACN_CPQ1      PUO       6          N           N        O
ACN_CPQ2      PUO       6          N           N        O
ACN_CPQ3      PUO       6          N           N        O
ACN_CPQ4      PUO       6          N           N        O
ACN_CWDLU     CWT       6          N           N        O
        If RLbnfeat.action = ACN_CWDLU, then RLbnfeat.fid must
        be of MF type CWT such that for that fid :
        RLcw_cf.typinv(bnfeat.fid) == CWIN_IDIAL,
```

that is, the INVOKE type should be Dial Call Waiting ( CODE ).

```
ACN_DCTMWI    MDS       7          N           N        O
        Note: IF RLbnfeat.action = ACN_DCTMWI and if
        RLbnfeat.fid = MDS Wildcard, then no other feature
        buttons within the same RLbnfeat.config may be assigned
        with RLbnfeat.action = ACN_DCTMWI.
        For RLbnfeat.action = ACN_DCTMWI and RLbnfeat.fid is not
        equal to MDS Wildcard, multiple feature buttons are allowed withi
n
        the same RLbnfeat.config with the ACN_DCTMWI action.
ACN_DLVRMSG   MDS       3          Y           N         Y
ACN_DNPUSE    DISP      7          N           N         Y
ACN_DPN       PUO       6          N           N         N
ACN_DPU       PUO       6          N           N         N
ACN_DQDUSE    EDS       2          Y           N         Y
ACN_DROPUSE   NULL      5          Y           N         *
ACN_DTPOTSA   IDP       6          N           Y         O
ACN_ERCO      NULL      1          Y           N         *
ACN_FLASH     NULL      5          Y           N         *
```

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```
        Note :  This action is only to be used for Wireless
                Centrex to allow wireless handset to emulate
                analog wired phone flash.
ACN_I1ICOM    ICM       1          Y           N         Y
ACN_I2ICOM    ICM       1          Y           N         Y
ACN_I3ICOM    ICM       1          Y           N         Y
ACN_I4ICOM    ICM       1          Y           N         Y
ACN_IACOF     IDP       1          Y           Y         N
        Note: If RLbnfeat.action = ACN_IACOF, then RLbnfeat.fid
              is equal to the fid with mftype = MFIDP which its
              control port has.  To identify the control port, refer
              to RLacoftran where:
                 (Key)RLacoftran.config = RLbnfeat.config
                 (Key)RLacoftran.cpe_comp = RLbnfeat.cpe_comp
                 (Key)RLacoftran.button = RLbnfeat.button
                      RLacoftran.port_mem = Control port
                      RLacoftran.port_mod = Switching module where
              the control port resides and also where the
              RLtrmfeats tuple exists.
        To identify the fid, refer to RLtrmfeats where:
                 (Key)RLtrmfeats.party = RLacoftran.party
                 (Key)RLtrmfeats.range = (Refer to RLtrmfeats poprule.)
                 (Key)RLtrmfeats.port = RLacoftran.port_mem
                      RLtrmfeats.fid = RLbnfeat.fid (Refer to RLtrmfeats
                 and RLacoftran poprules.)
ACN_IBSYVFY   PUO       7          N           N         N
        If action = ACN_IBSYVFY, there must be a tuple in RLpuo_cf
        keyed by RLbnfeat.fid with RLpuo_cf.initiate = BSYVFY.
ACN_ICANCEL   NULL      5          Y           N         *
ACN_ICONF     MWY       5          Y           N         N
        Note: If RLbnfeat.action = ACN_ICONF, then RLbnfeat.fid
              is equal to the fid for the ISDN Attendant Six-way
              Calling feature. (Refer to RLmwcf poprule.)
ACN_ICTT      PFA       7          N           N         Y
ACN_IDNACT    ACTR      7          N           N         O
ACN_IDSS      NULL      5          Y           Y         *
ACN_IDTGS     PFA       5          Y           Y         N
ACN_IEHGS     NULL      1          Y           Y         *
ACN_IEMEROVR  PUO       7          N           N         N
ACN_IFRLS     NULL      5          Y           N         *
ACN_IGACT     ACTR      7          N           N         O
ACN_IHGS      NULL      1          Y           Y         *
ACN_IHOLD     NULL      5          Y           Y         *
ACN_IJOIN     NULL      5          Y           N         *
ACN_IME       MWY       5          Y           N         N
       Note 1:     If RLbnfeat.action = ACN_IME, then RLbnfeat.fid can
                   be equal to the fid for the ISDN Attendant Three-way
                   Calling feature. (Refer to RLmwcf poprule.)
       Dependency: RLbnfeat.action = ACN_ISTART, for this
                   configuration must have RLbnfeat.fid equal to
                   the fid for the ISDN Attendant Three-way Calling
                   feature or the ISDN Attendant Auto Three-way
                   Calling feature. (Refer to RLmwcf poprule.)
       Note 2:     If RLbnfeat.action = ACN_IME, then RLbnfeat.fid can
```

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```
                    also be equal to the fid for the ISDN Attendant Hold
                    and Alternate Three-way Calling feature. (Refer to
                    RLmwcf poprule.)
        Dependency: RLbnfeat.action = ACN_ISTART, for this
                    configuration must have RLbnfeat.fid equal to
                    the fid for the ISDN Attendant Auto Three-way
                    Calling feature or the fid for the ISDN Attendant
                    Hold and Alternate Three-way Calling feature. (Refer
                    to RLmwcf poprule.)
ACN_INIGHT    CFW       1          Y          N         N
ACN_INSUSE    DISP      2          N          N         Y
ACN_IRLL      NULL      5          Y          Y         *
ACN_IRLS      NULL      5          Y          N         *
ACN_ISCCOF    PFA       1          Y          N         Y
ACN_ISPLIT    NULL      5          Y          N         *
ACN_ISTART    MWY       5          Y          N         N
        Note 1:     If RLbnfeat.action = ACN_ISTART, then RLbnfeat.fid can
                    be equal to the fid for the ISDN Attendant Auto Three-
way
                    Calling feature.(Refer to RLmwcf poprule.)
        Dependency: RLbnfeat.action = ACN_IME, for this configuration
                    must have RLbnfeat.fid equal to the fid for the ISDN
                    Attendant Three-way Calling feature or the fid for the
                    ISDN Attendant Hold and Alternate Three-way Calling
                    feature. (Refer to RLmwcf poprule.)
        Note 2:     If RLbnfeat.action = ACN_ISTART, then RLbnfeat.fid can
                    be equal to the fid for the ISDN Attendant Hold and
                    Alternate Three-way Calling feature. (Refer to RLmwcf
                    poprule.)
        Dependency: RLbnfeat.action = ACN_IME, for this configuration must
                    have RLbnfeat.fid equal to the fid for the ISDN Attend
ant
                    Hold and Alternate Three-way Calling feature. (Refer t
o
                    RLmwcf poprule.)
        Note 3:     If RLbnfeat.action = ACN_ISTART, then RLbnfeat.fid can
                    be equal to the fid for the ISDN Attendant Three-way
                    Calling feature. (Refer to RLmwcf poprule.)
        Dependency: RLbnfeat.action = ACN_IME, for this configuration must
                    have RLbnfeat.fid equal to the fid for the ISDN Attend
ant
                    Three-way Calling feature. (Refer to RLmwcf poprule.)
        Note 4:     If RLbnfeat.action = ACN_ISTART, then, RLbnfeat.fid =
                    RLissatnd.fid for this configuration. (Refer to
                    RLissatnd poprule.)
ACN_LQ1DISP   NULL      2          Y          N         *
ACN_LQ2DISP   NULL      2          Y          N         *
ACN_LQ3DISP   NULL      2          Y          N         *
ACN_LQ4DISP   NULL      2          Y          N         *
ACN_LQ5DISP   NULL      2          Y          N         *
ACN_LQ6DISP   NULL      2          Y          N         *
ACN_LQ7DISP   NULL      2          Y          N         *
ACN_LQ8DISP   NULL      2          Y          N         *
        NOTE: Recent change cannot modify RLbnfeat tuples with actions
```

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```
              ACN_LQ1DISP, ACN_LQ2DISP, ACN_LQ3DISP, ACN_LQ4DISP,
              ACN_LQ5DISP, ACN_LQ6DISP, ACN_LQ7DISP or ACN_LQ8DISP if
              the config is in use.
ACN_LSP        PUO       6          N          N         N
ACN_LWCUSE     MDS       5          N          N         Y
ACN_METOG      NULL      5          Y          N         *
ACN_MRDUSE     MDS       2          Y          N         O
       Note: IF RLbnfeat.action = ACN_MRDUSE and if RLbnfeat.fid = MDS
              Wildcard, then no other feature buttons within the same
              RLbnfeat.config may be assigned with RLbnfeat.action =
              ACN_MRDUSE.
       For RLbnfeat.action = ACN_MRDUSE and RLbnfeat.fid is not equal to
       MDS Wildcard, multiple feature buttons are allowed within the same
       RLbnfeat.config with the ACN_MRDUSE action.
ACN_MWITD      MWY       8          N          N         N
ACN_NNPRV      DISP      7          N          N         Y
ACN_NNPUB      DISP      7          N          N         Y
ACN_NRMLUSE    NULL      2          Y          N         *
ACN_NXTMSG     NULL      3          Y          N         *
ACN_NXTSEG     NULL      3          Y          N         *
ACN_PAEO       PP        7          N          N         O
ACN_PAF        PP        7          N          N         O
ACN_PAFO       PP        7          N          N         O
ACN_PAI        PP        7          N          N         O
ACN_PAP        PP        7          N          N         O
ACN_PAR        PP        7          N          N         O
ACN_PFUSE      PFA       6          N          Y         N
ACN_PODUSE     MDS       7          N          N         O
       Note: IF RLbnfeat.action = ACN_PODUSE and if RLbnfeat.fid = MDS
              Wildcard, then no other feature buttons within the same
              RLbnfeat.config may be assigned with RLbnfeat.action = ACN_P
ODUSE.
       For RLbnfeat.action = ACN_PODUSE and RLbnfeat.fid is not equal to
       MDS Wildcard, multiple feature buttons are allowed within the same
       RLbnfeat.config with the ACN_PODUSE action.
ACN_PPEO       PP        7          N          N         O
ACN_PPF        PP        7          N          N         O
ACN_PPFO       PP        7          N          N         O
ACN_PPI        PP        7          N          N         O
ACN_PPP        PP        7          N          N         O
ACN_PPR        PP        7          N          N         O
ACN_QCUSE      NULL      2          Y          N         *
ACN_SCAFB      SCA       7          Y          N         Y
ACN_SCFFB      SCF       7          Y          N         Y
ACN_SCRFB      SCR       7          Y          N         Y
ACN_SDAFB      SDA       7          Y          N         Y
ACN_SEL1XFER   NULL      5          N          N         *
ACN_SEL2XFER   NULL      5          N          N         *
ACN_SEL3XFER   NULL      5          N          N         *
ACN_SEL4XFER   NULL      5          N          N         *
ACN_SEL5XFER   NULL      5          N          N         *
ACN_SEL6XFER   NULL      5          N          N         *
ACN_QCW1L      QU        5          Y          N         Y
ACN_QCW2L      QU        5          Y          N         Y
```

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```
ACN_QCW3L      QU         5           Y           N          Y
ACN_QCWT       QU         5           Y           N          Y
ACN_QCWW       QU         5           Y           N          Y
ACN_QCBUSY     QU         5           Y           N          Y
ACN_QCWARN     QU         5           Y           N          Y
ACN_QCPCWT     QU         5           Y           N          Y
ACN_QCANC      QU         1           Y           N          Y
ACN_STPH       MLHG       1           Y           N          Y
ACN_TCUSE      NULL       2           Y           N          *
ACN_TODUSE     DISP       2           Y           N          Y
ACN_TOGDCT     CFW        7           Y           N          Y
ACN_TRKUSE     NULL       2           Y           N          *
ACN_XFERUSE    NULL       5           Y           N          *
ACN_ICR1       NULL       5           Y           N          *
ACN_ICR2       NULL       5           Y           N          *
ACN_ICR3       NULL       5           Y           N          *
ACN_ICR4       NULL       5           Y           N          *
ACN_ICR5       NULL       5           Y           N          *
ACN_ICR6       NULL       5           Y           N          *
ACN_CPNBNFBT   CPI        7           Y           N          Y
ACN_SDNUSE     NULL       7           N           N          *
ACN_BPARK      PUO        5           N           N          N
ACN_DPARK      PUO        5           N           N          N
ACN_RTRV       PUO        6           N           N          N
ACN_ANSBACK    PUO        6           N           N          N
ACN_AATOG      NULL       1           Y           N          *
ACN_BITOG      NULL       5           Y           N          *
ACN_CLTOG      NULL       1           Y           N          *
ACN_CWLMP      NULL       1           Y           N          *
ACN_ECUSE      NULL       2           Y           N          *
ACN_EMUSE      NULL       7           N           N          *
ACN_LGNTOG     NULL       2           Y           N          *
ACN_MBTOG      NULL       1           Y           N          *
ACN_SAUSE      NULL       7           N           N          *
ACN_SOTOG      NULL       5           Y           N          *
ACN_CFBN       CFW        7           Y           N          N
ACN_ASPNORM    ASPO       6           N           Y          O
ACN_IASNORM    ASPO       6           N           Y          O
               - or -
               ID         6           N           Y          Y
        Dependency: For either action ACN_ASPNORM or ACN_IASNORM
                    to be populated, Glpvn_ofc must equal DBPVN_SSP.
ANC_TSM        NULL       6           Y           Y          *
-------------------------------------------------------
```

**Attribute: target**

**Fullname:** target.

**Attribute Description**: Contains the target value derived from the feature id and action combination. Recent Change will provide the mapping based on the following list.

All of the targets are valid for both TMF (cpetype in RLis_term equal to IS_TYPEB, IS_TYPED or IS_TYPATT) and non-TMF (cpetype in RLis_term equal to IS_TYPEA, IS_TYPEC, or IS_TYPEE) terminals. target 0 Unassigned.

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```
target 1:  Route to the feature terminal process. Create one if it does
           not exist. This is used for buttons which do not interact
           immediately with the active call. It is used for
           features which do not affect the active call.
target 2:  Route to the display terminal process. Create one if it does
           not exist. This is for the first button of a display session.
target 3:  Route to the display terminal process.  If one does not exist,
           drop the message and peg a count. If there is no display termi
nal
           process, no error treatment will be given to the terminal.
target 4:  For a non-TMF terminal, route to the terminal process with a
           matching call reference. If one does not exist, drop the messa
ge
           and peg a count. If there is no matching call reference, no er
ror
           treatment will be given to the terminal.
```

For a TMF terminal, route to the terminal process of the selected call appearance. If one does not exist, drop the message and peg a count. If there is no selected call appearance process, no error treatment will be given to the terminal.

```
target 5:  For a non-TMF terminal route to the terminal process with a
           matching call reference if it exists, otherwise give immediate
           error treatment. This will route to the terminal process if it
           exists regardless of the state it is in.
```

For a TMF terminal, route to the terminal process of the selected call appearance if it exists, otherwise give immediate error treatment. This will route to the terminal process if it exists regardless of the state it is in.

```
target 6:  For a non-TMF terminal route to the terminal process with a
           matching call reference if it exists and is in the dialtone
           state otherwise route to the feature terminal process.
           Create one if it does not exist. This will route the message
           to the terminal process only when it is receiving dialtone.
           (In state N1, Dial Tone Sending, as defined in the Basic Rate
            Interface specification)
```

For a TMF terminal if the terminal is ON HOOK, route to a feature terminal process Create one if it does not exist. The feature terminal process will reply to the terminal to activate its speaker phone. If the terminal is OFF HOOK, route to the terminal process for the selected call appearance if it exists and is in the dialtone state otherwise route to a feature terminal process. Create one if it does not exist. This will route the message to the terminal process only when it is receiving dial tone. (In state N1, Dial Tone Sending, as defined in the Basic Rate Interface Specification)

```
target 7:  For a non-TMF terminal route to the terminal process with a
           matching call reference if it exists and is connected to dial
           tone, otherwise route to a feature terminal process. Create on
e
           if it does not exist. This will route the message to the termi
nal
           process only when it is receiving dial tone.  (In state N1, Di
al
           Tone Sending, as defined in the Basic  Rate Interface specific
ation)
```

For a TMF terminal route to the terminal process for the selected call appearance if it exists and is connected to dial tone, otherwise route to a feature terminal process. Create one if it does not exist. This will route the message to the terminal process only when it is receiving dial tone. (In state N1, Dial Tone Sending, as defined in the Basic Rate Interface specification)

```
target 8:  For a NON-TMF terminal route to the terminal process with a
```

matching call reference if it exists, otherwise route to a feature terminal process. Create one if it does not exist. This will route to the TP if it exists regardless of the state it is in.

For a TMF terminal if the terminal is ON HOOK, route to a feature terminal process. Create one if it does not exist. The feature terminal process will reply to the terminal to activate its speaker phone. If the terminal is OFF HOOK, route to the terminal process for the selected call appearance if it exists, otherwise route to a feature terminal process. Create one if it does not exist. This will route the message to the TP regardless of the state it is in.

Note: A target value of 15 is used internally by call processing and should not be assigned.

**Attribute: digcnt Fullname:** digit count.

**Attribute Description** provides the number of valid digits stored in the stored parameters, digit1 thru digit4.

**Attribute: str_param Fullname:** stored parameter.

**Attribute Description** stored parameter. If digcnt equals 1-4 then this field will contain the designated number of alphanumeric characters up to 4 stored in BCD. Valid digits #, *, 0, 1...9, F, I, O, P. If digcnt is equal to 0, then this field must be all zero.

See the previous target list table for actions that require either digit or store parameter for this attribute.

The mapping is as follows:

| character | binary (as stored in BNFEAT) |
|---|---|
| 0 | 0000 |
| 1 | 0001 |
| 2 | 0010 |
| 3 | 0011 |
| 4 | 0100 |
| 5 | 0101 |
| 6 | 0110 |
| 7 | 0111 |
| 8 | 1000 |
| 9 | 1001 |
| * | 1010 |
| # | 1011 |
| F | 1100 |
| O | 1101 |
| I | 1110 |
| P | 1111 |

The last four are AUTOVON digits. The digits will be left justified in the 16-bit field and if there are less than four, the empty positions on the right will be filled with all zeros. The digit count will always be the number of digits entered by the switch personnel, 0 to 4, regardless of the way call processing plans to interpret them.

The following are the population rules for the ISDN attendant actions that contain a str_param and state the minimum/maximum values of digcnt:

| action | digcnt | str_param | description |
|---|---|---|---|

```
ACN_IACOF    2          two digits indicating the alternate code treatmen
t
                        number in the dialing plan for a valid IDP.
       The data layout in the str_param for the ACN_IACOF action is:
-15-14-13-12-11-10-09-08-07-06-05-04-03-02-01-00-
-------------------------------------------------
|   0-3     |    0-9    |     0     |     0     |
|  in BCD   |   in BCD  | not used  | not used  |
-------------------------------------------------
Range : 01-32.
        NOTE: The number one should be entered as 01, two as 02, three
              as 03...., etc..
```

Default: none

```
         The digcnt must have a value of 2 when the action is ACN_IACOF.
         Also the following relations must have a tuple populated:
              Relation    Keys
              RLacoftran  config cpe_comp button
              RLisacof    config idp_gpid actsetnum
                          (determined from this str_param)
              RLisatlmt   config
              RLisafidx   config afidx
```

Refer to the poprules of the previous relations for more information.

```
**********************************************************************
action       digcnt     str_param description
ACN_IDSS     2          the button number minus one.
        button number   str_param
              1            00
              2            01
              3            02
              .            .
              .            .
              .            .
              99           98
             100           99
        The data layout in the str_param for the ACN_IDSS action is:
-15-14-13-12-11-10-09-08-07-06-05-04-03-02-01-00-
-------------------------------------------------
|   0-9     |    0-9    |     0     |     0     |
|  in BCD   |   in BCD  | not used  | not used  |
-------------------------------------------------
        The digcnt must have a value of 2 when the action is ACN_IDSS.
        All 100 of these tuples must exists if there is at least
        one tuple in RLbnfeat with the action ACN_IEHGS or ACN_IHGS.
        If there is no RLbnfeat tuple with an action ACN_IHGS or
        ACN_IEHGS, all 100 of these ACN_IDSS tuples must not exists.
**********************************************************************
action       digcnt     str_param description
ACN_IDTGS    1-4        upto four digit dial access code for the private
                        facility.
        The digcnt must be a value (1-4, where 1 is the minimum value and
 4
        is the maximum value) when the action is ACN_IDTGS.
        An example of the data layout in the str_param for the ACN_IDTGS
```

```
        action with the two digit access code 95 is:
                  (in this example the digcnt will be 2)
-15-14-13-12-11-10-09-08-07-06-05-04-03-02-01-00-
-------------------------------------------------
|     9     |     5     |     0     |     0     |
|  in BCD   |   in BCD  | not used  | not used  |
-------------------------------------------------
        An example of the data layout in the str_param for the
        ACN_IDTGS action with the three digit access code *56 is:
             (in this ex. the digcnt will be 3)
             NOTE: that * translates to the hex digit A.
-15-14-13-12-11-10-09-08-07-06-05-04-03-02-01-00-
-------------------------------------------------
|    A      |     5     |    6      |     0     |
|  in HEX   |   in BCD  |  in BCD   | not used  |
-------------------------------------------------
        Also the following relations must have a tuple populated:
            Relation        Key(s)
            RLdtgstran      config dial_code (determined from this str_pa
ram)
            RLisdtgs        config pftype grpnum
            RLisatlmt       config
            RListgidx       config tgidx
        Refer to the poprules of the previous relations for more informat
ion.
**********************************************************************
action       digcnt     str_param description
ACN_IEHGS       4       4 digits indicating the normalized office code.
                        The data in the str_param for the ACN_IEHGS actio
n is:
-15-14-13-12-11-10-09-08-07-06-05-04-03-02-01-00-
-------------------------------------------------
|not    |      NOC                              |
|used   |      in HEX                           |
-------------------------------------------------
                        NOC is the normalized office code in HEX.
        NOTE: Whenever a tuple with the action ACN_IEHGS is added, the
              following tuples with the keys of:
              config            = config of ACN_IEHGS
              cpe_comp          = cpe_comp of ACN_IEHGS
              button numbers    = 1 to 100
              must be populated with the action ACN_IDSS. If they are not
              present,  then the tuples must added as shown here:
config    cpe_comp   bn   action   fid  digcnt str_param
same as   same as
  in       in
ACN_IEHGS ACN_IEHGS   1   ACN_IDSS NULL    2      00
same as   same as
  in       in
ACN_IEHGS ACN_IEHGS   2   ACN_IDSS NULL    2      01
                    .
                    .
                    .
same as   same as
```

```
  in       in
ACN_IEHGS ACN_IEHGS  99   ACN_IDSS NULL    2      98
same as   same as
  in       in
ACN_IEHGS ACN_IEHGS  100  ACN_IDSS NULL    2      99
       The digcnt must have a value of 4 when the action is ACN_IEHGS.
**********************************************************************
action       digcnt    str_param description
ACN_IHGS     4         four digits indicating the hundreds group
                       identification.  The hundreds group ID is made up
                       of the normalized office code (NOC) which is in
                       str_param, and digit 4 and digit 3 of the Director
y
                       Number (DN) is in hgs_d4d3. Where the DN is define
d as:
                       NOC Digit-4 Digit-3 Digit-2 Digit-1.
                       The data in the str_param for the ACN_IHGS action
is:
-15-14-13-12-11-10-09-08-07-06-05-04-03-02-01-00-
-------------------------------------------------
| unused |                      NOC             |
|  bits  |                      in HEX          |
-------------------------------------------------
                       The data in the attribute hgs_d4d3
                       for the action of ACN_IHGS is:
                        -08-07-06-05-04-03-02-01-00-
                        _______________________________
                        |            |                |
                        |  Digit 4   |   Digit 3      |
                        _______________________________
                        NOC is the normalized office code in HEX.
                        BNFEAT.hgs_d4d3 is populated as follows:
                        DIGIT 4 is the digit in BCD.
                        DIGIT 3 is the digit in BCD.
         NOTE: Whenever a tuple with the action ACN_IHGS  is added,
               the following tuples with the keys of:
               config         = config of ANC_IHGS
               cpe_comp       = cpe_comp of ANC_IHGS
               button numbers = 1 to 100
               must be populated with the action ACN_IDSS. If they are no
t
               present,  then the tuples must added as shown here:
     config    cpe_comp   bn   action   fid  digcnt str_param
     same as   same as
       in       in
     ACN_IHGS  ACN_IHGS    1   ACN_IDSS NULL    2      00
     same as   same as
       in       in
     ACN_IHGS  ACN_IHGS    2   ACN_IDSS NULL    2      01
                          .
                          .
                          .
     same as   same as
       in       in
```

```
     ACN_IHGS  ACN_IHGS   99   ACN_IDSS NULL    2      98
     same as   same as
       in        in
     ACN_IHGS  ACN_IHGS   100  ACN_IDSS NULL    2      99
            The digcnt must have a value of 4 when the action is ACN_IHGS
.
**********************************************************************
action       digcnt     str_param description
ACN_IHOLD      3        First two digits (00-99) indicating the amount of
                        time in seconds that a call may remain on hold be
fore
                        it will start timed reminder alerting at the ISDN
                        attendant console.
                        The third digit indicating whether this config ha
s
                        the Serial Calling feature.
                            1 designates serial calling assigned
                            0 designates serial calling not
                        assigned the default for serial calling is 0 (not
                        assigned)
     The data layout in the str_param for the ACN_IHOLD action is:
-15-14-13-12-11-10-09-08-07-06-05-04-03-02-01-00-
-------------------------------------------------
|   0-9     |    0-9    |    0-1    |    0      |
|  in BCD   |   in BCD  |  in BCD   | not used  |
-------------------------------------------------
     The digcnt must have a value of 3 when the action is ACN_IHOLD.
     Also the following relation must have a tuple populated:
            Relation    Key(s)
            RLfeatbn    config fid action
     Refer to the poprules of the previous relation for more information.
**********************************************************************
action       digcnt     str_param description
ACN_IRLL       2        two digits (00-99) indicating the amount of time
in
                        seconds that a call may remain unanswered transfe
rred
                        before it will return alerting to an ISDN attenda
nt
                        console.
     The data layout in the str_param for the ACN_IRLL action is:
-15-14-13-12-11-10-09-08-07-06-05-04-03-02-01-00-
-------------------------------------------------
|   0-9     |    0-9    |    0      |    0      |
|  in BCD   |   in BCD  | not used  | not used  |
-------------------------------------------------
     The digcnt must have a value of 2 when the action is ACN_IRLL.
     Also the following relation must have a tuple populated:
            Relation    Key(s)
            RLfeatbn    config fid action
     Refer to the poprules of the previous relation for more information.
**********************************************************************
**********************************************************************
     Dependency: If RLbnfeat.action == ACN_BNTOG,
```

```
                then RLbnfeat.fid must be of MF
                type CFW such that for that fid:
                1) RLcf_cf.actvn(bnfeat.fid) == ACTCD
                2) RLcf_cf.dctvn(bnfeat.fid) == DCTCD.
**********************************************************************
**********************************************************************
These are the criteria that must be met to associate a multiway feature
with a feature button.
     Dependency: If RLbnfeat.action == ACN_MWITD,
                then RLbnfeat.fid must be of MF type MWY
                such that for RLbnfeat.fid:
                1) RLmwcf.epis_dialcd(bnfeat.fid) == DBYES
**********************************************************************
The following population rules are for the ISDN Account Code use
action (ACN_ACCTUSE) that contain a str_param (stored parameter).
The stored parameter is a substitute for a dialed code (that is, use code
)
since a feature button does not inherently produce a dialed code.
The stored parameter is used only to match against the contents of
RLacct_rtg, no digit analysis is done.
     digcnt    - range: 0-4
                 default: 0
     str_param - 0 to 4 digits
                 default: 0
This same digit count (when not 0) and stored parameter must also be
populated in the RLacct_rtg relation as use_cdX.digcnt and use_cdX.code
in the appropriate Code
Association Table identification tuple with the appropriate dialing seque
nce.
The X may be any of the possible values allowed which is 1 thru 10. The
appropriate tuple in the Code Association table will be keyed with the
cdtblid attribute found in the RLacct_prt relation for the port or ports
that
it is desired to have an associated code sequence for an Associated Code
Feature Button use.
**********************************************************************
action       digcnt     str_param description
ACN_PFUSE     1-4       The stored parameter is used as a PFA dialed code
.
                        It is passed through digit analysis. The stored
                        parameter must also be populated in the
                        dial_code.digits field of RLpf_gp for the PFA gro
up
                        (pf_gpid) to which the user is assigned. The stor
ed
                        parameter must also be defined as a dialed code i
n
                        the individualized dialing plan for the user.
The data layout in the str_param is
-15-14-13-12-11-10-09-08-07-06-05-04-03-02-01-00-
-------------------------------------------------
| digit 1   | digit 2   | digit 3   | digit 4   |
-------------------------------------------------
     Digit 1 range: 0-9,#,*
```

```
     Digit 2-4 range: 0-9
     If digit 1 is # or *, digcnt must be greater than 1.
**********************************************************************
action       digcnt     str_param description
ACN_ATHUSE    1-4       The stored parameter may only be populated for
                        STANDARD button configuration groups. When popula
ted,
                        the stored parameter is used as an ATH dialed cod
e.
                        It is passed through digit analysis only for the
Call
                        Forwarding over Private Facilities (CFPF) feature
.
                        The digits - not the FB or action - must be store
d in
                        the forward-to DN. When populated, the parameter
must
                        also be defined as a dialed code (with the same
                        action) in the dialing plan for the user.
The data layout in the str_param is
-15-14-13-12-11-10-09-08-07-06-05-04-03-02-01-00-
-------------------------------------------------
| digit 1   | digit 2   | digit 3   | digit 4   |
-------------------------------------------------
     Digit 1 range: 0-9,#,*
     Digit 2-4 range: 0-9
     If digit 1 is # or *, digcnt must be greater than 1.
**********************************************************************
action       digcnt     str_param description
ACN_ARSUSE,   1-4       The stored parameter may only be populated for
ACN_ARS1USE,            STANDARD button configuration groups.
ACN_ARS2USE             When populated, the stored parameter is used as a
n
                        ARS dialed code.  It is passed through digit anal
ysis
                        only for the Call Forwarding over Private Facilit
ies
                        (CFPF) feature.  The digits - not the FB or actio
n -
                        must be stored in the forward-to DN. When populat
ed,
                        the parameter must also be defined as a dialed co
de
                        (with the same action) in the dialing plan for th
e
                        user.
The data layout in the str_param is
-15-14-13-12-11-10-09-08-07-06-05-04-03-02-01-00-
-------------------------------------------------
| digit 1   | digit 2   | digit 3   | digit 4   |
-------------------------------------------------
     Digit 1 range: 0-9,#,*
     Digit 2-4 range: 0-9
     If digit 1 is # or *, digcnt must be greater than 1.
```

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```
*********************************************************************
action       digcnt     str_param description
ACN_AD1USE    1 - 4     The stored parameter is used as the entry code to
 the
                        1-digit Abbreviated Dialing List.
              Only the last digit is used as the entry code to the 1-digi
t
              Abbreviated Dialing List. This is consistent with the treat
ment
              of Dial Codes.
The data layout in the str_param is
-15-14-13-12-11-10-09-08-07-06-05-04-03-02-01-00-
-------------------------------------------------
| digit 1   | digit 2   | digit 3   | digit 4   |
-------------------------------------------------
     Digit 1 range: 0-9,#,*
     Digit 2-4 range: 0-9
     If digit 1 is # or *, digcnt must be greater than 1.
*********************************************************************
action       digcnt     str_param description
ACN_AD2USE    2 - 4     The stored parameter is used as the entry code to
 the
                        2-digit Abbreviated Dialing List.
              Only the last two digits are used as the entry code to the
              2-digit Abbreviated Dialing List. This is consistent with t
he
              treatment of Dial Codes.
The data layout in the str_param is
-15-14-13-12-11-10-09-08-07-06-05-04-03-02-01-00-
-------------------------------------------------
| digit 1   | digit 2   | digit 3   | digit 4   |
-------------------------------------------------
     Digit 1 range: 0-9,#,*
     Digit 2-4 range: 0-9
     If digit 1 is # or *, digcnt must be greater than 2.
*********************************************************************
action       digcnt     str_param description
ACN_DTPOTSA   1-4       The stored parameter is used as an escape to POTS
                        dialed code. It is passed through digit analysis.
                        The stored parameter must be defined as a dialed
                        code in the IDP for the user.
The data layout in the str_param is
-15-14-13-12-11-10-09-08-07-06-05-04-03-02-01-00-
-------------------------------------------------
| digit 1   | digit 2   | digit 3   | digit 4   |
-------------------------------------------------
     Digit 1 range: 0-9,#,*
     Digit 2-4 range: 0-9
     If digit 1 is # or *, digcnt must be greater than 1.
*********************************************************************
action       digcnt     str_param description
ACN_ASPNORM   3         three digits (001-255) indicating ASP trigger num
ber
                        associated with the action
```

```
The data layout in the str_param for the ACN_ASPNORM action is:
15-14-13-12-11-10-09-08-07-06-05-04-03-02-01-00-
-------------------------------------------------
|   0-2     |    0-9    |   0-9     |    0      |
|  in BCD   |   in BCD  |  in BCD   | not used  |
-------------------------------------------------
    The digcnt must have a value of 3 when the action is ACN_ASPNORM.  Al
so
    the following relation must have a tuple populated:
            Relation    Key(s)
            RLfeatbn    config fid action
*****************************************************************
action       digcnt     str_param description
ACN_IASNORM    3        three digits (001-255) indicating ASP trigger num
ber
                        associated with the action
The data layout in the str_param for the ACN_IASNORM action is:
-15-14-13-12-11-10-09-08-07-06-05-04-03-02-01-00-
-------------------------------------------------
|   0-2     |   0-9     |   0-9     |    0      |
|  in BCD   |  in BCD   |  in BCD   | not used  |
-------------------------------------------------
     The digcnt must have a value of 3 when the action is ACN_IASNORM.  A
lso
     the following relation must have a tuple populated if the MFID is AS
P
     originating :
            Relation    Key(s)
            RLfeatbn    config fid action
*****************************************************************
action          digcnt  str_param description
ACN_TSM         3       three digits (001-150) uniquely identifying
                        the ACN_TSM feature button
The data layout in the str_param for the
ACN_TSM action is:
-15-14-13-12-11-10-09-08-07-06-05-04-03-02-01-00-
-------------------------------------------------
|   0-1     |   0-9     |   0-9     |    0      |
|  in BCD   |  in BCD   |  in BCD   | not used  |
-------------------------------------------------
       The digcnt must have a value of 3 when the action is
       ACN_TSM.
*****************************************************************
```

**Attribute: hgs_d4d3**

**Fullname:** Hundreds Group ID - digits 3 and digits 4 .

**Attribute Description**: Digits 4 and 3 are part of the Hundreds Group ID used by ISAT. Only populated when RLbnfeat.action == ACN_IHGS, otherwise it is zero.

**Attribute: tsm_use_cnt**

**Fullname:** Terminal Status Monitoring usage count

**Attribute Description:** tsm_use_cnt is used to store the number of users that are using the TSM

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feature button, which has a corresponding TSM_BTN relation.

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# BTBPG

## 1. Description

Four distribute points and four scan points assigned to one OTO trunk for Office to Office testing. The first two distribute points are used for sleeve lead control of the old office test trunk. The third and fourth distribute points are used for OTO testing of Integrated *SLC*®-96 lines to provide 117V DC signature required to setup the necessary connections and initiate the channel test over the existing office line appearance. The channel test generates the stimulus detected in the *5ESS*®-2000 switch office to verify wiring continuity and line translations.

The four scan point attributes are NOT currently used. (It is expected that they will be used in a future release of Integrated *SLC*®-96 Office to Office to read channel test results from the old office over the tip and ring.)

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |

## 3. Field Layout

```
BTBPG       relid = 226   DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL
     trk          DMGPORT      (struct)     <--- key
         member       DMPORT       (ushort)
         module       DMMODULE     (ushort: 8)
     dist1        DMGPORT      (struct)
         member       DMPORT       (ushort)
         module       DMMODULE     (ushort: 8)
     dist2        DMGPORT      (struct)
         member       DMPORT       (ushort)
         module       DMMODULE     (ushort: 8)
     s96d1sig     DMGPORT      (struct)
         member       DMPORT       (ushort)
         module       DMMODULE     (ushort: 8)
     s96d2sig     DMGPORT      (struct)
         member       DMPORT       (ushort)
         module       DMMODULE     (ushort: 8)
     sp48tip      DMGPORT      (struct)
         member       DMPORT       (ushort)
         module       DMMODULE     (ushort: 8)
     sn48tip      DMGPORT      (struct)
         member       DMPORT       (ushort)
         module       DMMODULE     (ushort: 8)
     sp48rng      DMGPORT      (struct)
         member       DMPORT       (ushort)
         module       DMMODULE     (ushort: 8)
     sn48rng      DMGPORT      (struct)
         member       DMPORT       (ushort)
         module       DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout  BTBPG
```

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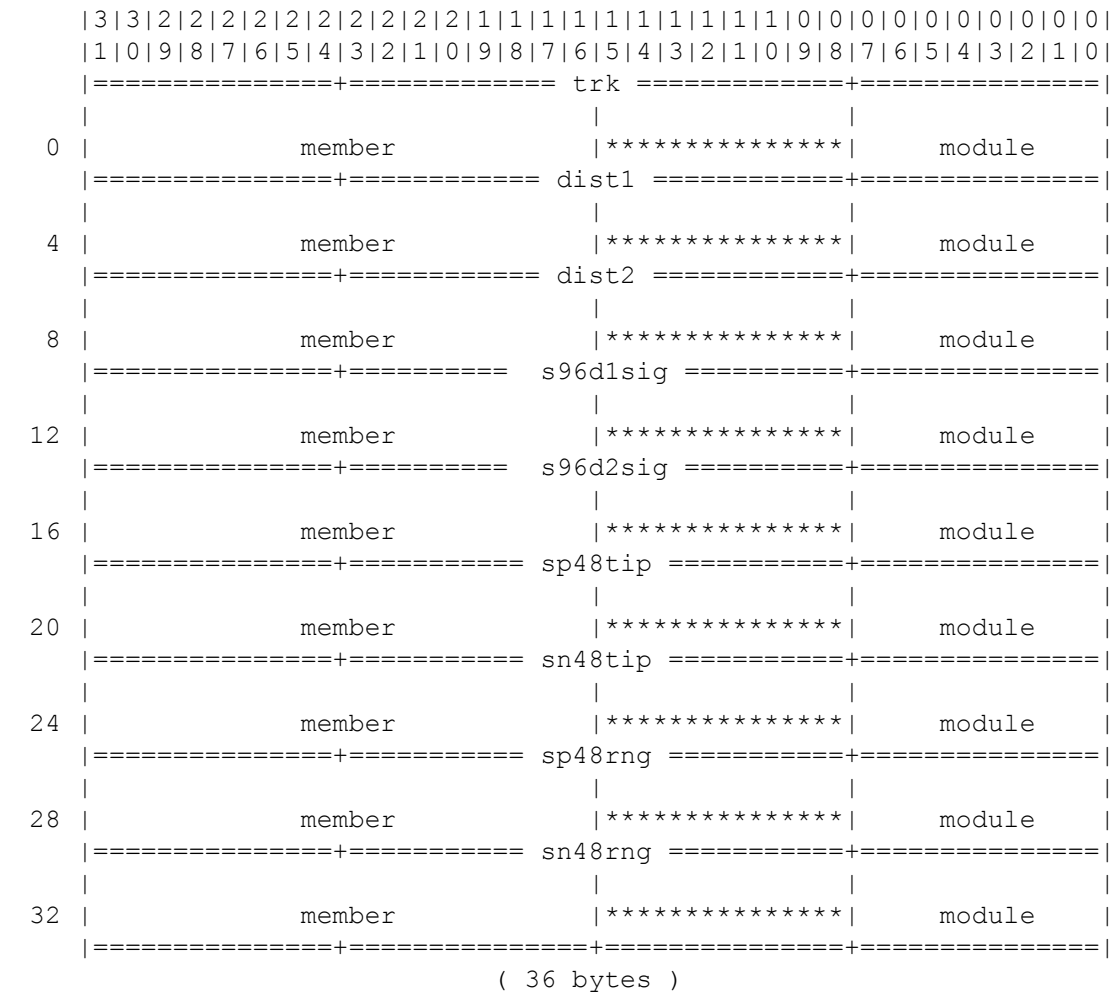


## 4. Population Rules for RLbtbpg

**Relation Description**

Board to Board Testing

Four distribute points and four scan points assigned to one OTO trunk for Office to Office testing. The first two distribute points are used for sleeve lead control of the old office test trunk. The third and fourth distribute points are used for OTO testing of Integrated *SLC*®-96 lines to provide 117V DC signature required to setup the necessary connections and initiate the channel test over the existing office line appearance. The channel test generates the stimulus detected in the *5ESS*®-2000 switch office to verify wiring continuity and line translations.

The four scan point attributes are NOT currently used. (It is expected that they will be used in a future release of Integrated *SLC*®-96 Office to Office to read channel test results from the old office over the tip and ring.)

The key for this relation is the global port name of the Office to Office trunk.For each OTO trunk in this relation a tuple must also appear in FC_porttyp with servclass of TM_OTOTK.

OTO trunks to be used for testing only *non_SLC*® lines require only dist1 and dist2, for sleeve lead control of the old office test trunk.OTO trunks to be used for testing Integrated *SLC*® lines require all four distribute points - dist1, dist2, s96d1sig, and s96d2sig - to be assigned and populated. The scan point fields are not used at this time and should be set to zero.

NOTE: OTO trunks used for testing SLC lines can also be
used to test non-SLC lines -- the additional distribute

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```
points for 117V signature and ring ground will not
interfere. In other words, all OTO trunks in the 5ESS-2000 switch
office may be configured with all four distribute points
and be used both for testing SLC lines and for testing
non_SLC lines.
```

The current limit on the number of simultaneously active OTO tasks, whether *SLC*® or *non_SLC*®, is set at four.An office may have more than four OTO trunks configured, but only four will be in use at any given time. As such, the number of members in an OTO trunk group should be limited to four.

```
NOTE:  Each OTO trunk requires a tuple in this relation.
       The number of tuples allowed in this relation is absolutely
       restricted to 20.
```

The distribute points assigned to a particular OTO trunk MUST be in the same Switching Module.It is recommended that they also be in the same MSU, Service Group, and distribute pack. It is also recommended that the OTO trunk be in the same SM, if possible, as the distribute points assigned to it.

A tuple must appear in FC_porttype for each distribute point populated in BTBPG.Dist1 and dist2 should have servclass field of RC_SLVLEAD.S96d1sig and s96d2sig should have servclass field of TM_S96OTOSD.

**Attribute: trk**

**Fullname:** Name of trunk port used.

**Attribute Description:** Refer to general section of poprules.

**Attribute: trk.member**

**Fullname:** Member

**Attribute Description:** Refer to general section of poprules.

**Attribute: trk.module**

**Fullname:** Module

**Attribute Description:** Refer to general section of poprules.

**Attribute: dist1**

**Fullname:** Distribute Point

**Attribute Description**: Refer to general section of poprules.

**Attribute: dist1.member**

**Fullname:** Member

**Attribute Description:** Refer to general section of poprules.

**Attribute: dist1.module**

**Fullname:** Module

**Attribute Description**: Refer to general section of poprules.

**Attribute: dist2**

**Fullname:** Distribute Point

**Attribute Description:** Refer to general section of poprules.

**Attribute: dist2.member**

**Fullname:** Member

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**Attribute Description:** Refer to general section of poprules.

**Attribute: dist2.module**
**Fullname:** Module

**Attribute Description:** Refer to general section of poprules.

**Attribute: s96d1sig**
**Fullname:** Distribute point for testing *ISLC*®-96.

**Attribute Description:** Refer to general section of poprules.

**Attribute: s96d1sig.member**
**Fullname:** Member

**Attribute Description:** Refer to general section of poprules.

**Attribute: s96d1sig.module**
**Fullname:** Module

**Attribute Description:** Refer to general section of poprules.

**Attribute: s96d2sig**
**Fullname:** Distribute point for testing *ISLC*®-96.

**Attribute Description:** Refer to general section of poprules.

**Attribute: s96d2sig.member**
**Fullname:** member

**Attribute Description:** Refer to general section of poprules.

**Attribute: s96d2sig.module**
**Fullname:** module

**Attribute Description:** Refer to general section of poprules.

**Attribute: sp48tip**
**Fullname:** Scan point to read +48 volts over tip lead.

**Attribute Description:** Refer to general section of poprules.

**Attribute: sp48tip.member**
**Fullname:** Member

**Attribute Description:** Refer to general section of poprules.

**Attribute: sp48tip.module**
**Fullname:** Module

**Attribute Description:** Refer to general section of poprules.

**Attribute: sn48tip**
**Fullname:** Scan point to read -48 volts over tip lead.

**Attribute Description:** Refer to general section of poprules.

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**Attribute: sn48tip.member**
**Fullname:** Member

**Attribute Description:** Refer to general section of poprules.

**Attribute: sn48tip.module**
**Fullname:** Module

**Attribute Description:** Refer to general section of poprules.

**Attribute: sp48rng**
**Fullname:** Scan point to read +48 volts over ring lead.

**Attribute Description:** Refer to general section of poprules.

**Attribute: sp48rng.member**
**Fullname:** Member

**Attribute Description:** Refer to general section of poprules.

**Attribute: sp48rng.module**
**Fullname:** Module

**Attribute Description:** Refer to general section of poprules.

**Attribute: sn48rng**
**Fullname:** Scan point to read -48 volts over ring lead.

**Attribute Description:** Refer to general section of poprules.

**Attribute: sn48rng.member**
**Fullname:** Member

**Attribute Description:** Refer to general section of poprules.

**Attribute: sn48rng.module**
**Fullname:** Module

**Attribute Description**: Refer to general section of poprules.

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# BTCHREL

## 1. Description

RC batch release information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 1024 |
| page level | 0 |

## 3. Field Layout

```
BTCHREL     relid = 441   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     srv_ord     DMTEXT10     (array [ 10 ] of char )     <--- key
     item_no     DMSHORT      (short)     <--- key
     msg_no      DMSHORT      (short)     <--- key
     clrkid      DMSHORT      (short)
     reltime     DMUNLONG     (ulong)
     foffset     DMLONG       (long)
         User, Compacted and Stored Tuple Layout    BTCHREL
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                            srv_ord                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                            srv_ord                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  8 |            srv_ord            |            item_no            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |             msg_no            |             clrkid            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                            reltime                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                            foffset                            |
    |---------------+---------------+---------------+---------------|
                             ( 24 bytes )
```

## 4. Population Rules for RLbtchrel

There are no population rules for this relation.

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## 2.4 RELATIONS: C

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# C7L3TMRS

## 1. Description

This relation holds Level 3 Timer Values for Standardization Sector (SS7) (formerly CCITT7) signaling (National and International).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 1 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCc7l3tmrs |
| insert trigger | DBNO |
| update trigger | DBYES |
| delete trigger | DBNO |
| end of transaction trigger | DBYES |
| ks key store | DBNO |

## 3. Field Layout

```
C7L3TMRS    relid = 2357  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     STRMT1      DMUSHORT     (ushort)
     STRMT2      DMUSHORT     (ushort)
     STRMT3      DMUSHORT     (ushort)
     STRMT4      DMUSHORT     (ushort)
     STRMT5      DMUSHORT     (ushort)
     STRMT6      DMUSHORT     (ushort)
     STRMT8      DMUSHORT     (ushort)
     STRMT10     DMUSHORT     (ushort)
     STRMT11     DMUSHORT     (ushort)
     STRMT12     DMUSHORT     (ushort)
     STRMT13     DMUSHORT     (ushort)
     STRMT14     DMUSHORT     (ushort)
     STRMT15     DMUSHORT     (ushort)
     STRMT16     DMUSHORT     (ushort)
     STRMT27     DMUSHORT     (ushort)
     STRMT28     DMUSHORT     (ushort)
     STRMT29     DMUSHORT     (ushort)
     STRMT30     DMUSHORT     (ushort)
     STRMT31     DMUSHORT     (ushort)
     STRMT32     DMUSHORT     (ushort)
     SLMT1       DMUSHORT     (ushort)
     SLMT7       DMUSHORT     (ushort)
     SLMT17      DMUSHORT     (ushort)
     SMHT2       DMUSHORT     (ushort)
     STRMANSIXLIST  DMUSHORT     (ushort)
     STRMANSILORST  DMUSHORT     (ushort)
     STRMANSI30  DMUSHORT     (ushort)
(a)  index       DMUNS1       (ushort: 1)       <--- key
     STRMT22     DMLONG       (long)
     STRMT23     DMLONG       (long)
```

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```
    STRMT33     DMLONG       (long)
    SLMT2       DMLONG       (long)
    SLMANSIT19  DMLONG       (long)
    SLMANSIT31  DMLONG       (long)
    SMHT1       DMLONG       (long)
    STRMITU18   DMLONG       (long)
    STRMITU19   DMLONG       (long)
    STRMITU20   DMLONG       (long)
    STRMITU21   DMLONG       (long)
    STRMANSI25  DMLONG       (long)
    STRMANSI28  DMLONG       (long)
    STRMANSI29  DMLONG       (long)
        User, Compacted and Stored Tuple Layout   C7L3TMRS
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |              STRMT1           |              STRMT2           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |              STRMT3           |              STRMT4           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |              STRMT5           |              STRMT6           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |              STRMT8           |             STRMT10           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |             STRMT11           |              STRMT12          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |             STRMT13           |              STRMT14          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
24 |             STRMT15           |              STRMT16          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
28 |             STRMT27           |              STRMT28          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
32 |             STRMT29           |              STRMT30          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
36 |             STRMT31           |              STRMT32          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
40 |              SLMT1            |              SLMT7            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
44 |              SLMT17           |              SMHT2            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
48 |         STRMANSIXLIST         |         STRMANSILORST         |
```

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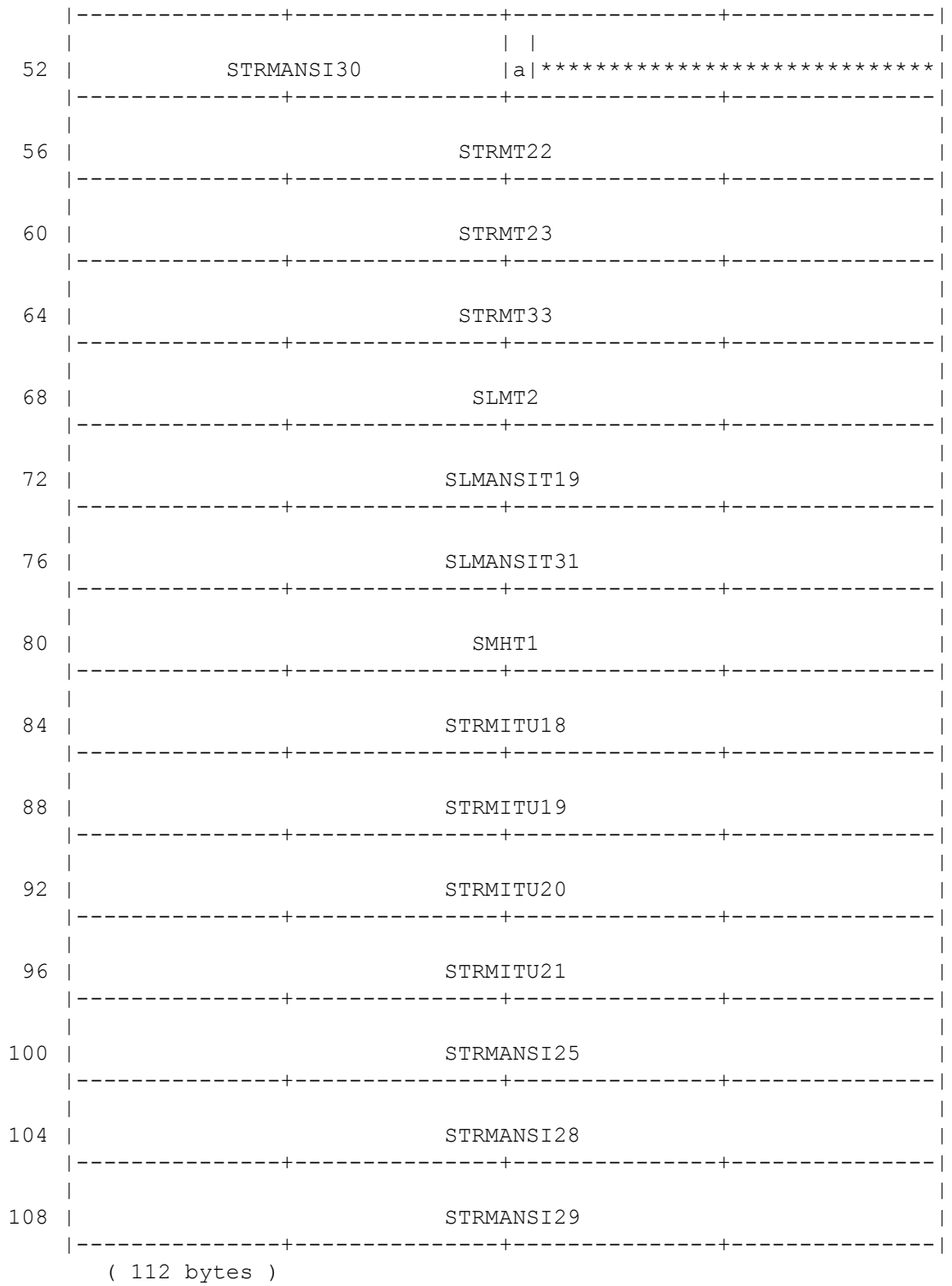


( 112 bytes )

## 4. Population rules for RLc7l3tmrs

**Relation Description**

Signaling System 7 Level 3 timers.

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Holds names and values for timers for national and international versions of Standardization Sector (SS7) (formerly CCITT7). These timers are needed for the Message Transfer Part.

**Attribute:**
index
**Fullname:**
index into the relation
**Attribute Description:**
The index will always equal one for a populated relation.

**Attribute:**
STRMT1
**Fullname:**

**Attribute Description:**
Delay to avoid message mis-sequencing during changeover.

**Attribute:**
STRMT2
**Fullname:**

**Attribute Description:**
Wait time for changeover acknowledgement.

**Attribute:**
STRMT3
**Fullname:**

**Attribute Description:**
Delay to avoid message mis-sequencing during changeback.

**Attribute:**
STRMT4
**Fullname:**

**Attribute Description:**
Wait time for changeback acknowledgement, first attempt.

**Attribute:**
STRMT5
**Fullname:**

**Attribute Description:**

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Wait time for changeback acknowledgement.

**Attribute:**
STRMT6
**Fullname:**

**Attribute Description:**
Delay to avoid message mis-sequencing
during controlled rerouting.

**Attribute:**
STRMT8
**Fullname:**

**Attribute Description:**
Minimum Time Between 2 TFPs sent to an APC regarding a
Particular Destination Point Code.

**Attribute:**
STRMT10
**Fullname:**

**Attribute Description:**
Wait time to repeat signaling route set test.

**Attribute:**
STRMT11
**Fullname:**

**Attribute Description:**
Transfer-restricted timer.

**Attribute:**
STRMT12
**Fullname:**

**Attribute Description:**
Wait time for uninhibit acknowledgement.

**Attribute:**
STRMT13
**Fullname:**

**Attribute Description:**
Wait time for MSU during force uninhibit.

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**Attribute:**
STRMT14
**Fullname:**

**Attribute Description:**
Wait time for inhibit acknowledgement.

**Attribute:**
STRMT15
**Fullname:**

**Attribute Description:**
Waiting to start Signaling Route Set Congestion Test.

**Attribute:**
STRMT16
**Fullname:**

**Attribute Description:**
Wait for Route Set Congestion Status Update.

**Attribute:**
STRMT22
**Fullname:**

**Attribute Description:**
Wait time for Local Inhibit Test.

**Attribute:**
STRMT23
**Fullname:**

**Attribute Description:**
Wait time for Remote Inhibit Test.

**Attribute:**
STRMT27
**Fullname:**

**Attribute Description:**
Wait time for a transfer allowed message.

**Attribute:**
STRMT28
**Fullname:**

**Attribute Description:**

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Allows TDTP to die gracefully if stop send signals.

**Attribute:**
STRMT29
**Fullname:**

**Attribute Description:**
Delay to avoid message mis-sequencing during
SLS correction.

**Attribute:**
STRMT30
**Fullname:**

**Attribute Description:**
Wait time to receive BSNT.
from level 2 during changeover

**Attribute:**
STRMT31
**Fullname:**

**Attribute Description:**
Wait time to receive message from level
2 indicating unsent messages sent to SMH.

**Attribute:**
STRMT32
**Fullname:**

**Attribute Description:**
Time destination marked remotely
congested after transfer control message received.

**Attribute:**
STRMT33
**Fullname:**

**Attribute Description:**
Sanity timer to prevent runaway TDTP. This timer is
set when TDTP is created. If TDTP is still present
when timer expires, STRM_SP kills TDTP.

**Attribute:**
SLMT1
**Fullname:**

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**Attribute Description:**
Wait time to receive Signaling Link Test Acknowledgement.

**Attribute:**
SLMT2
**Fullname:**

**Attribute Description:**
Interval between Consecutive Periodic Signaling Link Tests.

**Attribute:**
SLMT7
**Fullname:**

**Attribute Description:**
Wait time to receive Signaling Data Link Connection Order Acknowledgement.

**Attribute:**
SLMT17
**Fullname:**

**Attribute Description:**
Delay to avoid oscillation of initial Alignment Failure and Link Restart.

**Attribute:**
SLMANSIT19
**Fullname:**

**Attribute Description:**
This timer represents the wait time to report a signaling link failure (in milliseconds).

**Attribute:**
SLMANSIT31
**Fullname:**

**Attribute Description:**
This timer represents the wait time to detect a link in false link congestion (in milliseconds).

**Attribute:**
SMHT1
**Fullname:**

**Attribute Description:**

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Wait time to send SMH last sequence No.

**Attribute:**
SMHT2
**Fullname:**

**Attribute Description:**
Wait time to send SMH requested update message.

**Attribute:**
STRMANSIXLIST
**Fullname:**
Cluster routing X-list timer
**Attribute Description:**
Cluster routing X-list timer, in minutes

**Attribute:**
STRMANSILORST
**Fullname:**
Low-priority Route-Set-Test transmission timing interval
**Attribute Description:**
Low-priority Route-Set-Test transmission timing interval, stored as number of 30-second intervals

**Attribute:**
STRMANSI25
**Fullname:**
Waiting for traffic restart allowed timer
**Attribute Description:**
Traffic restart allowed timer (in milliseconds).

**Attribute:**
STRMANSI28
**Fullname:**
Waiting for traffic restart waiting timer
**Attribute Description:**
Traffic restart waiting timer (in milliseconds).

**Attribute:**
STRMANSI29
**Fullname:**
TRA sent timer
**Attribute Description:**
Timer started when a TRA is sent in response to an unexpected TRA or TRW message. (in milliseconds).

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# CADDEF

## 1. Description

Definition of ringing cadences.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 1 |

## 3. Field Layout

```
CADDEF      relid = 296   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     ring_int    DMINTV       (ushort: 8)
     sil_int     DMINTV       (ushort: 8)
     ring2_int   DMINTV       (ushort: 8)
     sil2_int    DMINTV       (ushort: 8)
     cadtype     DMCAD        (enum: 5)     <--- key
 (a) sp_ring     DMSPRING     (enum: 3)
         User, Compacted and Stored Tuple Layout CADDEF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  0 |    ring_int   |    sil_int    |   ring2_int   |    sil2_int   |
    |---------------+---------------+---------------+---------------|
    |         |     |                                               |
  4 | cadtype |  a  |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLcaddef

**Relation Description** Definition of ringing cadences. RLcaddef is an existing relation for export. The ISLU-Z development requires that this relation now be populated for domestic as well. The existing method of population for export will be used for RLcaddef. Also see rc-oda rules.

**Attribute: cadtype**

**Fullname:** Cadence Identifier, up to two cadences allowed
**Attribute Description:** See attribute description.

**Attribute: sp_ring**

**Fullname:** Special Ringing Indicator, for English ringing cadence
**Attribute Description:** See attribute description.

**Attribute: ring_int**

**Fullname:** Length of first ringing interval in 50 ms. terms
**Attribute Description:** See attribute description.

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**Attribute: sil_int**

**Fullname:** Length of first silent interval in 50ms. terms
**Attribute Description:** See attribute description.

**Attribute: ring2_int**

**Fullname:** Length of second ringing interval in 50 ms. terms
**Attribute Description:** See attribute description.

**Attribute: sil2_int**

**Fullname:** Length of second silent interval in 50 ms. terms
**Attribute Description:** See attribute description.

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# CAL_BANN

## 1. Description

This relation contains the CALEA default banner.

The SAS advisory warning banner in response to a successful login. This banner explicitly states the possible consequences of an unauthorized entry. This banner is changeable by the security administrator to meet local requirements and state law.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 10 |
| expected number of tuples | 4 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| relation type | DBSTATIC |
| distribution | LP |
| application | RCDATA |
| ks key store | DBYES |

## 3. Field Layout

```
CAL_BANN    relid = 3173  DBSTATIC   DBACC_DHSH  DBPRAM    LP      RCDATA


     line_no     DMUNS4       (ushort: 4)       <--- key
     line_rmk    DMTEXT72     (array [ 72 ] of char )
         User, Compacted and Stored Tuple Layout   CAL_BANN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |       |       |                                               |
  0 |line_no|*******|                    line_rmk                   |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                            line_rmk                           |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                            line_rmk                           |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
                                    .
                                    .
                                    .
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 64 |                            line_rmk                           |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 68 |                            line_rmk                           |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |               |                                               |
 72 |    line_rmk   |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 76 bytes )
```

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## 4. Population rules for RLcal_bann

### Relation Description

CALEA advisory warning banner

SAS advisory warning banner in response to a successful login. This banner explicitly states the possible consequences of an unauthorized entry. This banner is changeable by the security administrator (by MML commands) to meet local requirements and state law.

**Attribute:**
line_no
**Fullname:**
Line number of banner
**Attribute Description:**
Line number of the CALEA warning banner (1-10).

**Attribute:**
line_rmk
**Fullname:**
Remark field for banner
**Attribute Description:**
Eighty characters of text allowed on each line (1-80). The remark field is a null terminated character string. The switch personnel can enter 74 characters per line.

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# CAL_LOGN

## 1. Description

This relation defines the CALEA security login.

MML commands (LOGIN:CALEA, LOGOFF:CALEA, ADD:USER, DEL:USER, CHG:PSWD, and VFY:USERS) must be used to access this relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 16 |
| expected tuples in relation | 8 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| relation type | DBSTATIC |
| corcable | DBYES |
| distribution | LP |
| application | RCDATA |
| ks key store | DBYES |

## 3. Field Layout

```
CAL_LOGN    relid = 3174  DBSTATIC   DBACC_DHSH  DBPRAM    LP      RCDATA


    user_id     DMCHR8       (array [ 8 ] of char )    <--- key
 (a) pswd_length  DMUNS4       (ushort: 4)
 (b) admin_type  DMADMINTYP   (enum: 3)
 (c) invld_attmps  DMUNS3       (ushort: 3)
    password    DMCHAR12     (array [ 12 ] of char )
    login_date  DMTTYTIME    (struct)
        days        DMSHORT      (short)
        month       DMUCHAR      (uchar)
        year        DMUCHAR      (uchar)
        day         DMUCHAR      (uchar)
        hours       DMUCHAR      (uchar)
        mins        DMUCHAR      (uchar)
        secs        DMUCHAR      (uchar)
    pswd_date   DMDATE       (struct)
        year        DMUNS7       (ushort: 7)
        month       DMUNS4       (ushort: 4)
        day         DMUNS5       (ushort: 5)
        User, Compacted and Stored Tuple Layout   CAL_LOGN
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                           user_id                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 4 |                           user_id                             |
   |---------------+---------------+---------------+---------------|
   |       |     |     |           |                               |
 8 |   a   |  b  |  c  |***********|            password           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
```

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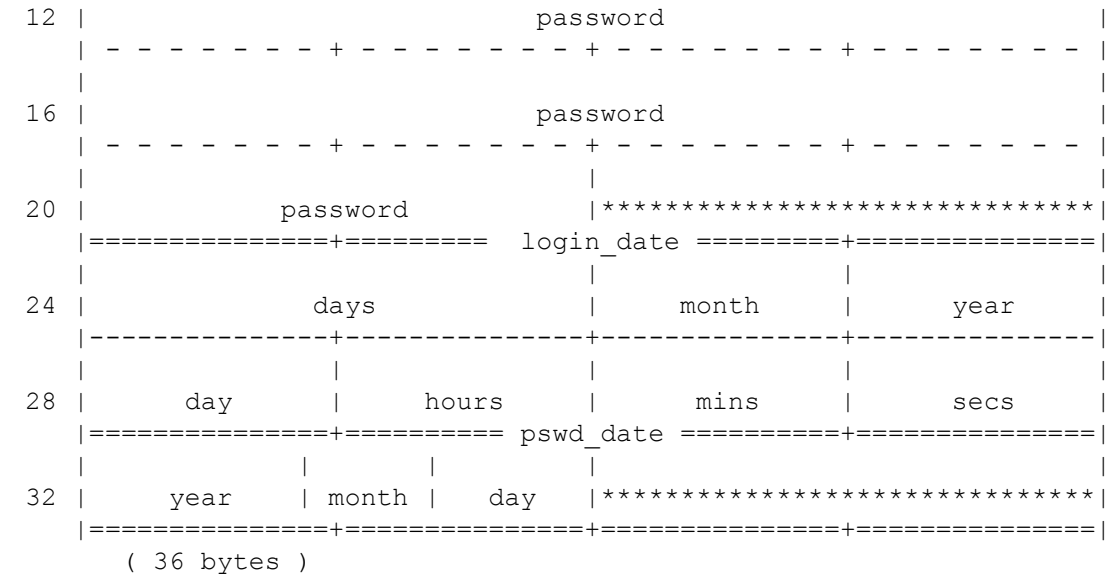


## 4. Population rules for RLcal_logn

### Relation Description

CALEA security login

Holds the data to be added to the CALEA security login.

**Attribute:**
user_id
**Fullname:**
User login ID
**Attribute Description:**
User login ID. Maximum 8 characters, minimum of 3.

**Attribute:**
password
**Fullname:**
User encrypted password
**Attribute Description:**
User encrypted password. Maximum 12 characters, minimum of 6.

**Attribute:**
pswd_length
**Fullname:**
Length of password
**Attribute Description:**
Number of characters in password before encryption.

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**Attribute:**
admin_type
**Fullname:**
Administration type
**Attribute Description:**
Administration type, security or surveillance.

**Attribute:**
login_date
**Fullname:**
Login date
**Attribute Description:**
User login date and time.

**Attribute:**
pswd_date
**Fullname:**
Password date
**Attribute Description:**
Date this password was last changed.

**Attribute:**
invld_attmps
**Fullname:**
Invalid attempts
**Attribute Description:**
Invalid number of login attempts since the last successful login.

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# CALLCOMP

## 1. Description

Call completion table. This relation contains the name used to identify a caller when one-digit is entered at bong tone.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |

## 3. Field Layout

```
CALLCOMP    relid = 2040  DBSTATIC   DBACC_LIN   DBPRAM    FR      NULL
     spare       DMCHAR3      (array [ 3 ] of char )
     cc_digit    DMDIGIT      (char)     <--- key
     cc_name     DMCHAR20     (array [ 20 ] of char )
         User, Compacted and Stored Tuple Layout   CALLCOMP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                 |               |
  0 |                     spare                       |    cc_digit   |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            cc_name                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                            cc_name                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                            cc_name                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                            cc_name                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                            cc_name                            |
    |---------------+---------------+---------------+---------------|
                              ( 24 bytes )
```

## 4. Population Rules for RLcallcomp

**Relation Description** Call completion table. This relation contains names to use to complete a call when a single digit is entered at the bong tone.

**Attribute: cc_digit**

**Fullname:** Call Completion Digit

**Attribute Description:** This is the digit use to retrieve the name for call completion.

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**Attribute: cc_name**

**Fullname:** Call Completion Name
**Attribute Description:** This is the call completion name retrieved from the digit entered.

**Attribute: spare**

**Fullname:** Spare Field
**Attribute Description:** Spare field.

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# CARDGRP

## 1. Description

Card group (CARDGRP).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
CARDGRP     relid = 2193  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     oaff6       DMUSHORT     (ushort)
     cardgroup   DMUNS8       (ushort: 8)     <--- key
     oaff1       DMUNS4       (ushort: 4)
 (a) oaff2       DMBOOL       (enum: 1)
 (b) oaff3       DMBOOL       (enum: 1)
 (c) oaff4       DMBOOL       (enum: 1)
 (d) oaff5       DMBOOL       (enum: 1)
     type0031    DMULONG      (ulong)
     type3263    DMULONG      (ulong)
         User, Compacted and Stored Tuple Layout    CARDGRP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |       | | | | |
  0 |             oaff6             |   cardgroup   | oaff1 |a|b|c|d|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           type0031                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                           type3263                            |
    |---------------+---------------+---------------+---------------|
                           ( 12 bytes )
```

## 4. Population Rules for RLcardgrp

### Relation Description

RLcardgrp

RLcardgrp is a spare relation for OSPS Special Feature use.

**Attribute: cardgroup**

**Fullname:** Card group number.

**Attribute Description:** Number identifying a specific card group.

**Attribute: oaff1**

**Fullname:** uns4 spare.

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**Attribute Description:** Unused.

**Attribute: oaff2**

**Fullname:** boolean spare.

**Attribute Description:** Unused.

**Attribute: oaff3**

**Fullname:** boolean spare.

**Attribute Description:** Unused.

**Attribute: oaff4**

**Fullname:** boolean spare.

**Attribute Description:** Unused.

**Attribute: oaff5**

**Fullname:** boolean spare.

**Attribute Description:** Unused.

**Attribute: oaff6**

**Fullname:** ushort spare.

**Attribute Description:** Unused.

**Attribute: type0031**

**Fullname:** Card types 0 thru 31.

**Attribute Description:** bits for including card types 00 thru 31 in this card group.

**Attribute: type3263**

**Fullname:** Card types 32 thru 63.

**Attribute Description:** bits for including card types 32 thru 63 in this card group.

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# CARRGRP

## 1. Description

This relation stores groups of carriers and associates a carrier group ID with each group. Thus, it is possible to determine that a carrier accepts a specific card for billing by assigning a carrier group ID for a group including that carrier to the specified card in the appropriate card recognition table.
This relation is to have a distribution of FG (fixed group), with a grp_type of GPD_OSPS, and a grp_id of 3.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| expected number of tuples | 10 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
CARRGRP     relid = 2128  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     carrgrp     DMUNS8       (ushort: 8)     <--- key
     entries     DMUNS5       (ushort: 5)
     ospsff1     DMUSHORT     (ushort)
     ospsff2     DMUSHORT     (ushort)
     ospsff3     DMUCHAR      (uchar)
     ospsff4     DMUCHAR      (uchar)
 (a) ospsff5     DMBOOL       (enum: 1)
     carrid1     DMUSHORT     (ushort)
     carrid2     DMUSHORT     (ushort)
     carrid3     DMUSHORT     (ushort)
     carrid4     DMUSHORT     (ushort)
     carrid5     DMUSHORT     (ushort)
     carrid6     DMUSHORT     (ushort)
     carrid7     DMUSHORT     (ushort)
     carrid8     DMUSHORT     (ushort)
     carrid9     DMUSHORT     (ushort)
     carrid10    DMUSHORT     (ushort)
     carrid11    DMUSHORT     (ushort)
     carrid12    DMUSHORT     (ushort)
     carrid13    DMUSHORT     (ushort)
     carrid14    DMUSHORT     (ushort)
     carrid15    DMUSHORT     (ushort)
     carrid16    DMUSHORT     (ushort)
         User, Compacted and Stored Tuple Layout    CARRGRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |         |     |                               |
  0 |    carrgrp    | entries |*****|            ospsff1            |
    |---------------+---------------+---------------+---------------|
    |                                 |               |               |
  4 |            ospsff2              |    ospsff3    |    ospsff4    |
    |---------------+---------------+---------------+---------------|
```

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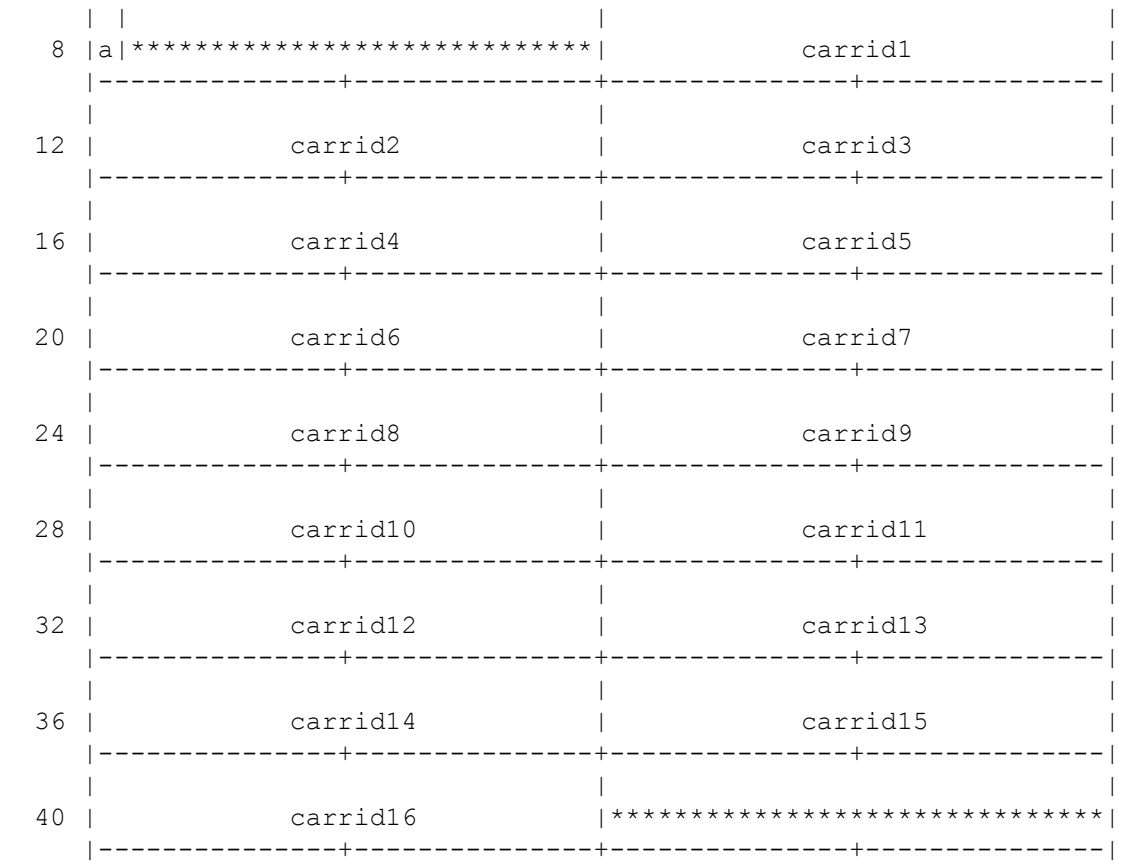
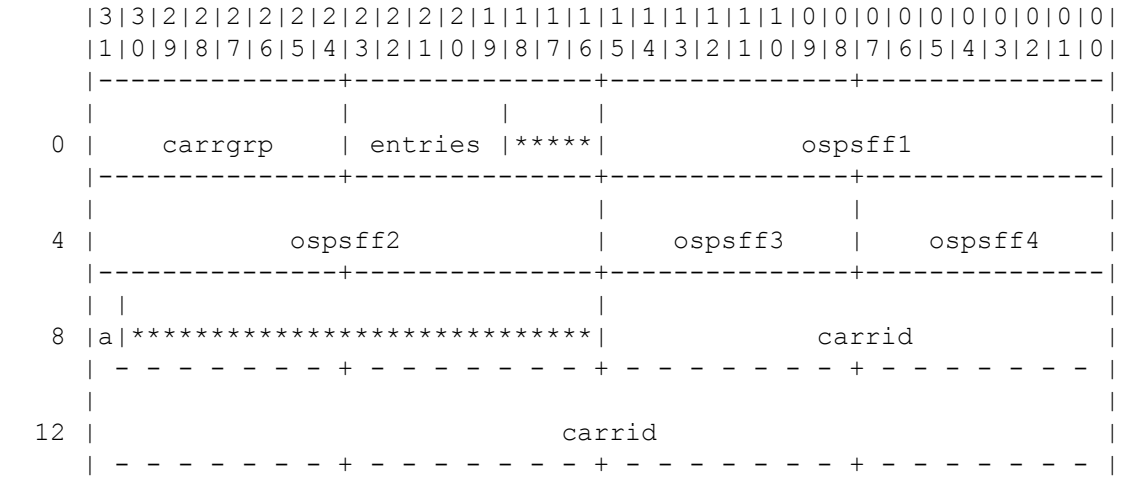
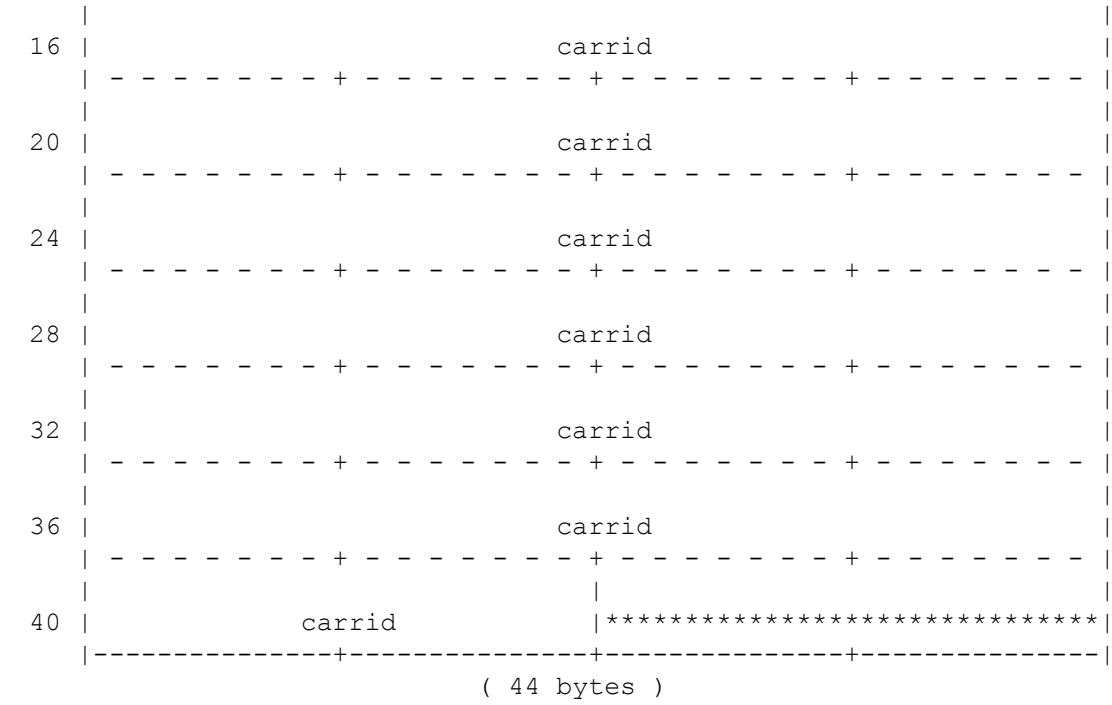



( 44 bytes )

```
RLcarrgrp.G
domain alCARRGR   struct  (8 sub-attributes)
         carrgrp     .2.fake      (ushort)
         entries     .3.fake      (ushort: 5)
         ospsff1     unsigned short (ushort)
         ospsff2     unsigned short (ushort)
         ospsff3     unsigned char (uchar)
         ospsff4     unsigned char (uchar)
 (a)     ospsff5     .0fake       (enum)
         carrid      .4.fake      (array [ 16 ] of unsigned short )
```






## 4. Population Rules for RLcarrgrp

**Relation Description**

Carrier Group

Relation containing the carrier group information to determine permissions or restrictions based upon the card type.

**Attribute: carrgrp**

**Fullname:** Carrier Group Number.

**Attribute Description:** Identifies a group of carriers that are exceptable for a given type of calling card.

**Attribute: entries**

**Fullname:** entries

**Attribute Description:** Number of entries in the carrid array.

**Attribute: ospsff1**

**Fullname:** ospsff1

**Attribute Description:** Spare for relation.

**Attribute: ospsff2**

**Fullname:** ospsff2

**Attribute Description:** Spare for relation.

**Attribute: ospsff3**

**Fullname:** ospsff3

**Attribute Description:** Spare for relation.

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**Attribute: ospsff4**

**Fullname:** ospsff4

**Attribute Description:** Spare for relation.

**Attribute: ospsff5**

**Fullname:** ospsff5

**Attribute Description**: Spare for relation.

**Attribute: carrid[*]**

**Fullname:** Carrier ID.

**Attribute Description:** array of permitted carrier ids

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# CASCNTRT

## 1. Description

This relation contains those NPA's for which part or all of the NXX's can have a contract between the LEC and AT&T

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
CASCNTRT    relid = 933   DBSTATIC   DBACC_LIN   DBPRAM    FG      NULL
     npa          DMNPA         (array [ 3 ] of char ) <--- key
 (a) allnxxs      DMBOOL        (enum: 1)
     bits00       DMOAH32       (ulong)
     bits01       DMOAH32       (ulong)
     bits02       DMOAH32       (ulong)
     bits03       DMOAH32       (ulong)
     bits04       DMOAH32       (ulong)
     bits05       DMOAH32       (ulong)
     bits06       DMOAH32       (ulong)
     bits07       DMOAH32       (ulong)
     bits08       DMOAH32       (ulong)
     bits09       DMOAH32       (ulong)
     bits10       DMOAH32       (ulong)
     bits11       DMOAH32       (ulong)
     bits12       DMOAH32       (ulong)
     bits13       DMOAH32       (ulong)
     bits14       DMOAH32       (ulong)
     bits15       DMOAH32       (ulong)
     bits16       DMOAH32       (ulong)
     bits17       DMOAH32       (ulong)
     bits18       DMOAH32       (ulong)
     bits19       DMOAH32       (ulong)
     bits20       DMOAH32       (ulong)
     bits21       DMOAH32       (ulong)
     bits22       DMOAH32       (ulong)
     bits23       DMOAH32       (ulong)
     bits24       DMOAH32       (ulong)
         User, Compacted and Stored Tuple Layout   CASCNTRT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               | |             |
  0 |                      npa                      |a|*************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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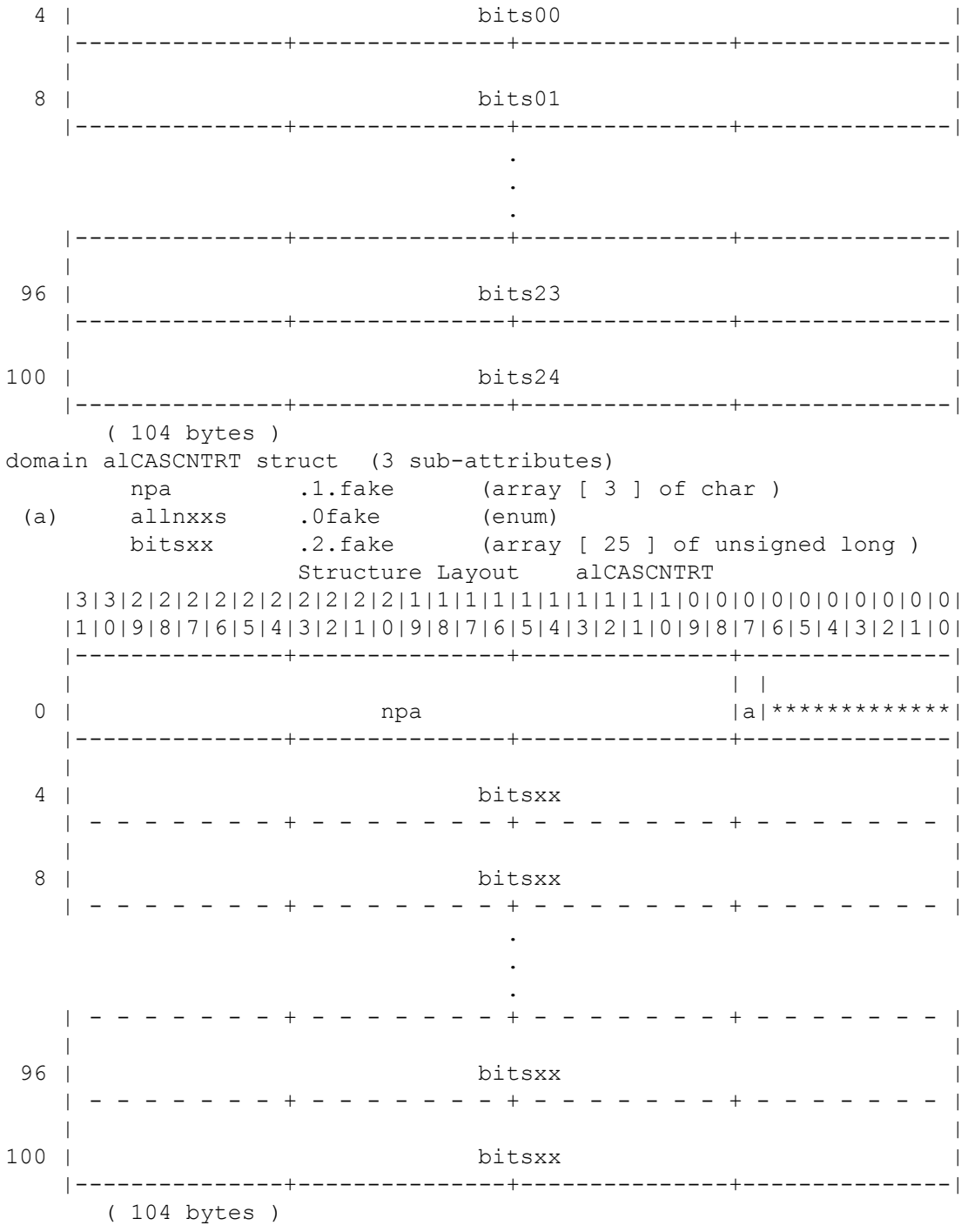


## 4. Population rules for RLcascntrt

### Relation Description

CAS Contract
This relation contains those NPAs for which part or all of the NXXs can have a contract between the LEC owner and the owner of a card that uses CAS signaling.
This relation should be populated for domestic generics only.
end relation;

**Attribute:**
npa
**Fullname:**
Originating NPA that has at least one NXX
**Attribute Description:**
This is the key for the relation. It indicates those originating NPAs that have at least one NXX whose LEC owner has a contract with the owner of a card that uses CAS signaling for calling card calls.

**Attribute:**
allnxxs
**Fullname:**
All NXXs belong to LECs that have contracts with the owner of a card that uses CAS signaling for calling card calls.
**Attribute Description:**
This flag indicates that all NXXs for this NPA belong to LECs that have contracts with the owners of a card that uses CAS signaling for calling card calls.

**Attribute:**
bits00
**Fullname:**
Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling for calling cards calls.
**Attribute Description:**
There are 800 1-bit elements in this and the following items. Each bit indicates if the NXX it stands for has a contract between the owner of a card that uses CAS signaling and the LEC which owns it for calling card calls.
The 800 bits represent NXX values 200 - 999.

**Attribute:**
bits01
**Fullname:**
Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.
**Attribute Description:**
See bits00

**Attribute:**
bits02
**Fullname:**
Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.
**Attribute Description:**
See bits00

**Attribute:**
bits03

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**Fullname:**
Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.
**Attribute Description:**
See bits00
**Attribute:**
bits04
**Fullname:**
Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.
**Attribute Description:**
See bits00

**Attribute:**
bits05
**Fullname:**
Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.
**Attribute Description:**
See bits00

**Attribute:**
bits06
**Fullname:**
Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.
**Attribute Description:**
See bits00

**Attribute:**
bits07
**Fullname:**
Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.
**Attribute Description:**
See bits00

**Attribute:**
bits08
**Fullname:**
Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.
**Attribute Description:**
See bits00

**Attribute:**
bits09

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**Fullname:**
Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.
**Attribute Description:**
See bits00

**Attribute:**
bits10
**Fullname:**
Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.
**Attribute Description:**
See bits00

**Attribute:**
bits11
**Fullname:**
Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.
**Attribute Description:**
See bits00

**Attribute:**
bits12
**Fullname:**
Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.
**Attribute Description:**
See bits00

**Attribute:**
bits13
**Fullname:**
Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.
**Attribute Description:**
See bits00

**Attribute:**
bits14
**Fullname:**
Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.
**Attribute Description:**
See bits00

**Attribute:**

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bits15

**Fullname:**

Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.

**Attribute Description:**

See bits00

**Attribute:**

bits16

**Fullname:**

Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.

**Attribute Description:**

See bits00

**Attribute:**

bits17

**Fullname:**

Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.

**Attribute Description:**

See bits00

**Attribute:**

bits18

**Fullname:**

Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.

**Attribute Description:**

See bits00

**Attribute:**

bits19

**Fullname:**

Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.

**Attribute Description:**

See bits00

**Attribute:**

bits20

**Fullname:**

Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.

**Attribute Description:**

See bits00

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**Attribute:**
bits21
**Fullname:**
Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.
**Attribute Description:**
See bits00

**Attribute:**
bits22
**Fullname:**
Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.
**Attribute Description:**
See bits00

**Attribute:**
bits23
**Fullname:**
Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.
**Attribute Description:**
See bits00

**Attribute:**
bits24
**Fullname:**
Bitfield indicating which NXXs have a contract between the owner of a card that uses CAS signaling and the LEC which owns the NXX for calling card calls.
**Attribute Description:**
See bits00

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# CASE_IDX

## 1. Description

This relation contains an index to the CALEA case information. Up to 5 cases can be associated with one target.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 500 |
| expected tuples in relation | 20 |
| access type | DBACC_CIND |
| distribution | LPFR |
| application | RCMAP |
| memory type | DBPRAM |
| relation type | DBSTATIC |
| ks key store | AUTO |
| trigger function | RTcase_idx |
| insert trigger | DBNO |
| update trigger | DBYES |
| delete trigger | DBNO |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
CASE_IDX    relid = 3175  DBSTATIC   DBACC_CIND  DBPRAM    LPFR    RCMAP


    subjmemb    DMMEMBER     (ushort)
    subjgroup   DMGRUPNM     (ushort: 13)
(a) ckt1opt     DMCKT_OPT    (enum: 2)
    caseindex   DMCASEMAX    (ushort: 9)       <--- key
(b) pkt1opt     DMPKT_OPT    (enum: 2)
(c) admin1state  DMCALADMIN   (enum: 2)
(d) ckt2opt     DMCKT_OPT    (enum: 2)
    laes1cid    DMCASEMAX    (ushort: 9)
(e) pkt2opt     DMPKT_OPT    (enum: 2)
(f) admin2state  DMCALADMIN   (enum: 2)
(g) ckt3opt     DMCKT_OPT    (enum: 2)
    laes2cid    DMCASEMAX    (ushort: 9)
(h) pkt3opt     DMPKT_OPT    (enum: 2)
(i) admin3state  DMCALADMIN   (enum: 2)
(j) ckt4opt     DMCKT_OPT    (enum: 2)
    laes3cid    DMCASEMAX    (ushort: 9)
(k) pkt4opt     DMPKT_OPT    (enum: 2)
(l) admin4state  DMCALADMIN   (enum: 2)
(m) ckt5opt     DMCKT_OPT    (enum: 2)
    laes4cid    DMCASEMAX    (ushort: 9)
(n) pkt5opt     DMPKT_OPT    (enum: 2)
(o) admin5state  DMCALADMIN   (enum: 2)
    laes5cid    DMCASEMAX    (ushort: 9)
    uspid       DMUSPID      (struct)
        digcnt      DMDCNT18     (uchar: 5)
        dig1        DMBCD        (ushort: 4)
        dig2        DMBCD        (ushort: 4)
        dig3        DMBCD        (ushort: 4)
        dig4        DMBCD        (ushort: 4)
        dig5        DMBCD        (ushort: 4)
        dig6        DMBCD        (ushort: 4)
```

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```
        dig7        DMBCD        (ushort: 4)
        dig8        DMBCD        (ushort: 4)
        dig9        DMBCD        (ushort: 4)
        dig10       DMBCD        (ushort: 4)
        dig11       DMBCD        (ushort: 4)
        dig12       DMBCD        (ushort: 4)
        dig13       DMBCD        (ushort: 4)
        dig14       DMBCD        (ushort: 4)
        dig15       DMBCD        (ushort: 4)
        dig16       DMBCD        (ushort: 4)
        dig17       DMBCD        (ushort: 4)
        dig18       DMBCD        (ushort: 4)
    subjnettn   DMLOCDN      (struct)
        noc         DMNOC        (ushort: 14)
        digits      DMLOCDIG     (array [ 4 ] of char )
        User, Compacted and Stored Tuple Layout   CASE_IDX
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                           |   | |
 0 |            subjmemb           |        subjgroup          | a |*|
   |---------------+---------------+---------------+---------------|
   |                 |   |   |   | |                 |   |   |   | |
 4 |    caseindex    | b | c | d |*|     laes1cid    | e | f | g |*|
   |---------------+---------------+---------------+---------------|
   |                 |   |   |   | |                 |   |   |   | |
 8 |     laes2cid    | h | i | j |*|     laes3cid    | k | l | m |*|
   |---------------+---------------+---------------+---------------|
   |                 |   |   |     |                 |             |
12 |     laes4cid    | n | o |*****|     laes5cid    |*************|
   |===============+============ uspid ============+===============|
   |         |                     |       |       |       |       |
16 |  digcnt |*********************|  dig1 |  dig2 |  dig3 |  dig4 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
20 |  dig5 |  dig6 |  dig7 |  dig8 |  dig9 | dig10 | dig11 | dig12 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |               |
24 | dig13 | dig14 | dig15 | dig16 | dig17 | dig18 |***************|
   |===============+========== subjnettn ==========+===============|
   |   |                           |                               |
28 |***|            noc            |             digits            |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
   |                               |                               |
32 |             digits            |*******************************|
   |===============+===============+===============+===============|
      ( 36 bytes )
```

## 4. Population rules for RLcase_idx

**Relation Description**

Case Index

Index into the Communications Assistance for Law Enforcement Act (CALEA) case information. Up to five cases can be associated with one subject.

**Attribute:**
caseindex
**Fullname:**
Case Index
**Attribute Description:**
Index into the CALEA cases.

**Attribute:**
subjnettn
**Fullname:**
subject network telephone number
**Attribute Description:**
Identifies the subject to be surveilled. This is a unique NPA-NXX directory number (DN).

**Attribute:**
subjgroup
**Fullname:**
subject group
**Attribute Description:**
subject network MLHG group

**Attribute:**
subjmemb
**Fullname:**
subject member
**Attribute Description:**
subjnet network MLHG member

**Attribute:**
uspid
**Fullname:**
User Service Profile Identifier subject
**Attribute Description:**
User Service Profile Identifier subject

**Attribute:**
ckt1opt
**Fullname:**
Circuit 1 Options
**Attribute Description:**
Circuit options for case 1.

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**Attribute:**
ckt2opt
**Fullname:**
Circuit 2 Options
**Attribute Description:**
Circuit options for case 2.

**Attribute:**
ckt3opt
**Fullname:**
Circuit 3 Options
**Attribute Description:**
Circuit options for case 3.

**Attribute:**
ckt4opt
**Fullname:**
Circuit 4 Options
**Attribute Description:**
Circuit options for case 4.

**Attribute:**
ckt5opt
**Fullname:**
Circuit 5 Options
**Attribute Description:**
Circuit options for case 5.

**Attribute:**
pkt1opt
**Fullname:**
Packet 1 Options
**Attribute Description:**
Packet options for case 1.

**Attribute:**
pkt2opt
**Fullname:**
Packet 2 Options
**Attribute Description:**
Packet options for case 2.

**Attribute:**
pkt3opt
**Fullname:**
Packet 3 Options

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**Attribute Description:**
Packet options for case 3.

**Attribute:**
pkt4opt
**Fullname:**
Packet 4 Options
**Attribute Description:**
Packet options for case 4.

**Attribute:**
pkt5opt
**Fullname:**
Packet 5 Options
**Attribute Description:**
Packet options for case 5.

**Attribute:**
admin1state
**Fullname:**
Administration 1 State
**Attribute Description:**
Administration state of case 1

**Attribute:**
admin2state
**Fullname:**
Administration 2 State
**Attribute Description:**
Administration state of case 2

**Attribute:**
admin3state
**Fullname:**
Administration 3 State
**Attribute Description:**
Administration state of case 3

**Attribute:**
admin4state
**Fullname:**
Administration 4 State
**Attribute Description:**
Administration state of case 4

**Attribute:**

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admin5state
**Fullname:**
Administration 5 State
**Attribute Description:**
Administration state of case 5

**Attribute:**
laes1cid
**Fullname:**
Lawfully Authorized Electronic Surveillance 1 case index
**Attribute Description:**
Key to RLlaescase

**Attribute:**
laes2cid
**Fullname:**
Lawfully Authorized Electronic Surveillance 2 case index
**Attribute Description:**
Key to RLlaescase

**Attribute:**
laes3cid
**Fullname:**
Lawfully Authorized Electronic Surveillance 3 case index
**Attribute Description:**
Key to RLlaescase

**Attribute:**
laes4cid
**Fullname:**
Lawfully Authorized Electronic Surveillance 4 case index
**Attribute Description:**
Key to RLlaescase

**Attribute:**
laes5cid
**Fullname:**
Lawfully Authorized Electronic Surveillance 5 case index
**Attribute Description:**
Key to RLlaescase

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# CC_00X

## 1. Description

INWATS 00X code (pseudo npa). This relation is the inverse of the RLcc_onpa relation whereas there exist a one to one correspondence of tuples between this relation and RLcc_onpa.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
CC_00X      relid = 594   DBSTATIC   DBACC_LIN   DBPRAM    FR      NULL
     p_npa       DMSHORT      (short)
     o_npa       DMNPA        (array [ 3 ] of char ) <--- key
         User, Compacted and Stored Tuple Layout CC_00X
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             p_npa             |             o_npa             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |               |                                               |
  4 |     o_npa     |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLcc_00x

**Relation Description**

INWATS 00X code (pseudo npa).
INWATS 00X code (pseudo npa). This relation is the inverse of the RLcc_onpa relation whereas there exist a one to one correspondence of tuples between this relation and RLcc_onpa.

**Attribute:**
o_npa
**Fullname:**
Originating Numbering Plan Area.
**Attribute Description:**
Range of ONPA digits: [2-9][0-9][0-9]
This field corresponds to the 'orig_npa' field of the relation RLcc_onpa.

**Attribute:**
p_npa
**Fullname:**

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Pseudo Numbering Plan Area.

**Attribute Description:**

00X code takes on an integer value from 0 to 9.
This field corresponds to the 'pseudo_npa' field of RLcc_onpa.
Integer value of the digits '00X' used as the area code field for outpulsing on non-toll INWATS (800 Service) calls which are routed to a BOC Access Tandem office.

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# CC_NAME

## 1. Description

Country code and corresponding country name information.

This relation is to have a distribution of fixed group (FG), with a grp_type of GPD_OPRT, and a grp_id of two. The maximum number of tuples for this relation is 256; However, the average number of tuples will be 200.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
CC_NAME     relid = 1271  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     oaff4       DMUSHORT     (ushort)
     cc          DMTCSCC      (ushort: 10)     <--- key
     oaff1       DMUNS5       (ushort: 5)
 (a) dior_autoseq  DMBOOL       (enum: 1)
     idddcac     DMUNS10      (ushort: 10)
     oaff3       DMUNS4       (ushort: 4)
 (b) is809nxx    DMBOOL       (enum: 1)
 (c) apqueue     DMBOOL       (enum: 1)
     nracc       DMUNS10      (ushort: 10)
 (d) prepdcard   DMBOOL       (enum: 1)
 (e) indettrmt   DMINDETTMT   (enum: 1)
     name        DMTEXT15     (array [ 15 ] of char )
     oaff2       DMCHAR3      (array [ 3 ] of char )
     annclang    DMCHAR3      (array [ 3 ] of char )
         User, Compacted and Stored Tuple Layout    CC_NAME
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                   |         | |
  0 |              oaff4            |         cc        |  oaff1  |a|
    |---------------+---------------+---------------+---------------|
    |                   |       | | |                   | | |       |
  4 |      idddcac      | oaff3 |b|c|       nracc       |d|e|*******|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                               name                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 12 |                               name                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 16 |                               name                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                   |           |
 20 |                     name                          |    oaff2  |
```

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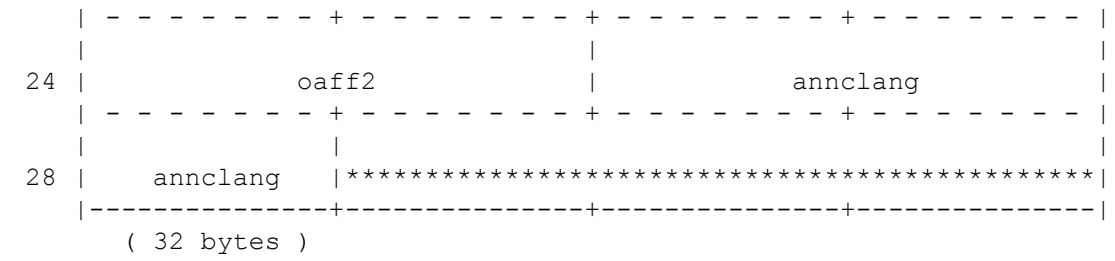


## 4. Population Rules for RLcc_name

**Relation Description** Country Code to Country Name Map.
This relation is used to map a numeric country code to a 15 character country name. This information is used for displaying the country name on the OSPS VDT on a direct international originations (DIOR) call.

**Attribute: cc**

**Fullname:** Country Code

**Attribute Description:** Key to mapping a country code to a country name - left justified

**Attribute: name**

**Fullname:** Country Name

**Attribute Description:** Country name associated with the key attribute cc_name.cc - left justified

**Attribute: dior_autoseq**

**Fullname:** DIOR Automated Initial and Sequence Calling

**Attribute Description:** Whether calls originated from the country named by the key attribute cc_name.cc are allowed to attempt automated calling card initial and sequence calls.

**Attribute: oaff1**

**Fullname:** OA fast feature spare 1

**Attribute Description:** Spare.

**Attribute: oaff2**

**Fullname:** OA fast feature spare 2

**Attribute Description:** Spare.

**Attribute: idddcac**

**Fullname:** IDDD CAC

**Attribute Description:** International Direct Distance Dialing Country Access Code as opposed to a DIOR country code.

**Attribute: is809nxx**

**Fullname:** Is really an 809 NXX

**Attribute Description:** Is the previous idddcac actually an NXX for 809 (Caribbean)?

**Attribute: apqueue**

**Fullname:** Automated Position queue usage allowed

**Attribute Description:** Is automated position queue usage allowed on DIOR automated initial

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calls?

**Attribute: nracc**

**Fullname:** Network Remote Access Country Code

**Attribute Description:** Network Remote Access Country Code as opposed to the IDDD CAC or a DIOR country code.

**Attribute: prepdcard**

**Fullname:** Pre-paid card usage allowed indicator

**Attribute Description:** Are Pre-paid cards allowed to be used on calls from this DIOR country?

**Attribute: indettrmt**

**Fullname:** Indeterminate reply treatment

**Attribute Description:** Treatment to be given when an indeterminate reply is received on a card query.

**Attribute: annclang**

**Fullname:** Announcement language

**Attribute Description:** Language in which announcements are to be given if not English.

**Attribute: oaff3**

**Fullname:** OA fast feature spare 3

**Attribute Description:** Spare.

**Attribute: oaff4 Fullname:** OA fast feature spare 4

**Attribute Description** Spare.

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# CC_ONPA

## 1. Description

Originating NPA of caller on an INWATS (800 service) call; determined from "00X" digits of 00X-NXX-XXXX number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
CC_ONPA     relid = 586   DBSTATIC   DBACC_LIN   DBPRAM    FR      NULL
     pseudo_npa  DMSHORT      (short)     <--- key
     orig_lata   DMILATA      (ushort: 10)
 (a) coin        DMBOOL       (enum: 1)
     orig_npa    DMNPA        (array [ 3 ] of char )
         User, Compacted and Stored Tuple Layout    CC_ONPA
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                   | |         |
  0 |           pseudo_npa          |     orig_lata     |a|*********|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  4 |                    orig_npa                   |***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLcc_onpa

**Relation Description** Originating NPA of caller on 800 call relation. Originating NPA of caller on an 800 call - determined from 00Y digits of 00Y-NXX-XXXX number. This relation is mainly used by the CCS subsystem.

**Attribute: pseudo_npa**

**Fullname:** Pseudo NPA

**Attribute Description:** 00Y code takes on an integer value from 0 to 9. When the sequence 00Y-NXX-XXXX is received over a trunk and the service is identified as FCOSOIWATS or FCNS800 (by digit analysis) then this relation is accessed with the X from the 00X to obtain any of the following information:

- originating NPA
- originating LATA
- coin line origination indicator.

**Attribute: orig_npa**

**Fullname:** Originating NPA

**Attribute Description**: Originating NPA consists of 3 ASCII digits representing the area code of

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the calling party.

**Attribute: orig_lata**

**Fullname:** Originating LATA
**Attribute Description:** Originating LATA indicating the calling party's LATA.

**Attribute: coin**

**Fullname:** Coin Line Origination Indicator
**Attribute Description:** DMBOOL indicates if this origination is from a coin line. The coin attribute indicates that this is a coin origination in the originating office. Relates to the pseudo_npa sent from the local office.

```
DBYES - indicates that this was an origination from a coin phone
DBNO  - not a coin origination.
```

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# CC_PCC

## 1. Description

This relation maps the 1-3 digit country code to a 3 digit paired country code.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
CC_PCC      relid = 924   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     cc          DMTCSCC      (ushort: 10)     <--- key
     pcc         DMTCSCC      (ushort: 10)
         User, Compacted and Stored Tuple Layout CC_PCC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |           |                   |           |
  0 |         cc        |***********|        pcc        |***********|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLcc_pcc

**Relation Description**

country code paired country code

This relation maps the 1-3 digit country code to a 3 digit paired country code.

Maps country code to paired country code.

**Attribute: cc**

**Fullname:** country code

**Attribute Description:** This is the country code portion of the forward number converted to binary.

**Attribute: pcc**

**Fullname:** Paired Country Code

**Attribute Description:** This is the paired country code in binary.

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# CCF

## 1. Description

Concentrated calling feature (CCF) table. CCF allows customers to specify outgoing calls that are permitted or not permitted from their ANIs. Data are stored in this relation as follows: each of word[*] contains two NPAs, an NPA-NXX, or two country codes (CCs). The field wordtype indicates what is stored in each word. Words containing NPAs are stored first, followed by words containing NPANXXs, and lastly words containing CCs. Two fields, nxx_tup and cc_tup indicate which tupnum to read for the first word containing NPANXXs or CCs, respectively.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 25000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
CCF          relid = 2073  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     anitbl       DMANITBL      (ushort: 15)     <--- key
 (a) spare1       DMBOOL        (enum: 1)
     locdigs      DMLINENO      (ushort: 14)     <--- key
 (b) spare2       DMUNS2        (ushort: 2)
     tupnum       DMUNS4        (ushort: 4)     <--- key
 (c) def_treat    DMBOOL        (enum: 1)
 (d) dom_treat    DMCCFTREAT    (enum: 2)
 (e) spare3       DMBOOL        (enum: 1)
 (f) intl_treat   DMCCFTREAT    (enum: 2)
     spare4       DMUNS6        (ushort: 6)
     nxx_tup      DMUNS4        (ushort: 4)
     cc_tup       DMUNS4        (ushort: 4)
     spare5       DMUNS8        (ushort: 8)
     word00       DMCCFWRD      (struct)
         npacc        DMUNS10       (ushort: 10)
 (g)     allow1       DMBOOL        (enum: 1)
 (h)     wordtype     DMCCFWTYP     (enum: 2)
 (i)     spare1       DMUNS3        (ushort: 3)
         npanxxcc     DMUNS10       (ushort: 10)
 (j)     allow2       DMBOOL        (enum: 1)
         spare2       DMUNS5        (ushort: 5)
     word01       DMCCFWRD      (struct)
         npacc        DMUNS10       (ushort: 10)
 (k)     allow1       DMBOOL        (enum: 1)
 (l)     wordtype     DMCCFWTYP     (enum: 2)
 (m)     spare1       DMUNS3        (ushort: 3)
         npanxxcc     DMUNS10       (ushort: 10)
 (n)     allow2       DMBOOL        (enum: 1)
         spare2       DMUNS5        (ushort: 5)
     word02       DMCCFWRD      (struct)
         npacc        DMUNS10       (ushort: 10)
 (o)     allow1       DMBOOL        (enum: 1)
 (p)     wordtype     DMCCFWTYP     (enum: 2)
```

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```
(q)     spare1      DMUNS3       (ushort: 3)
        npanxxcc    DMUNS10      (ushort: 10)
(r)     allow2      DMBOOL       (enum: 1)
        spare2      DMUNS5       (ushort: 5)
    word03      DMCCFWRD     (struct)
        npacc       DMUNS10      (ushort: 10)
(s)     allow1      DMBOOL       (enum: 1)
(t)     wordtype    DMCCFWTYP    (enum: 2)
(u)     spare1      DMUNS3       (ushort: 3)
        npanxxcc    DMUNS10      (ushort: 10)
(v)     allow2      DMBOOL       (enum: 1)
        spare2      DMUNS5       (ushort: 5)
    word04      DMCCFWRD     (struct)
        npacc       DMUNS10      (ushort: 10)
(w)     allow1      DMBOOL       (enum: 1)
(x)     wordtype    DMCCFWTYP    (enum: 2)
(y)     spare1      DMUNS3       (ushort: 3)
        npanxxcc    DMUNS10      (ushort: 10)
(z)     allow2      DMBOOL       (enum: 1)
        spare2      DMUNS5       (ushort: 5)
    word05      DMCCFWRD     (struct)
        npacc       DMUNS10      (ushort: 10)
(A)     allow1      DMBOOL       (enum: 1)
(B)     wordtype    DMCCFWTYP    (enum: 2)
(C)     spare1      DMUNS3       (ushort: 3)
        npanxxcc    DMUNS10      (ushort: 10)
(D)     allow2      DMBOOL       (enum: 1)
        spare2      DMUNS5       (ushort: 5)
    word06      DMCCFWRD     (struct)
        npacc       DMUNS10      (ushort: 10)
(E)     allow1      DMBOOL       (enum: 1)
(F)     wordtype    DMCCFWTYP    (enum: 2)
(G)     spare1      DMUNS3       (ushort: 3)
        npanxxcc    DMUNS10      (ushort: 10)
(H)     allow2      DMBOOL       (enum: 1)
        spare2      DMUNS5       (ushort: 5)
    word07      DMCCFWRD     (struct)
        npacc       DMUNS10      (ushort: 10)
(I)     allow1      DMBOOL       (enum: 1)
(J)     wordtype    DMCCFWTYP    (enum: 2)
(K)     spare1      DMUNS3       (ushort: 3)
        npanxxcc    DMUNS10      (ushort: 10)
(L)     allow2      DMBOOL       (enum: 1)
        spare2      DMUNS5       (ushort: 5)
    word08      DMCCFWRD     (struct)
        npacc       DMUNS10      (ushort: 10)
(M)     allow1      DMBOOL       (enum: 1)
(N)     wordtype    DMCCFWTYP    (enum: 2)
(O)     spare1      DMUNS3       (ushort: 3)
        npanxxcc    DMUNS10      (ushort: 10)
(P)     allow2      DMBOOL       (enum: 1)
        spare2      DMUNS5       (ushort: 5)
    word09      DMCCFWRD     (struct)
        npacc       DMUNS10      (ushort: 10)
```

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```
(Q)     allow1      DMBOOL       (enum: 1)
(R)     wordtype    DMCCFWTYP    (enum: 2)
(S)     spare1      DMUNS3       (ushort: 3)
        npanxxcc    DMUNS10      (ushort: 10)
(T)     allow2      DMBOOL       (enum: 1)
        spare2      DMUNS5       (ushort: 5)
    word10      DMCCFWRD     (struct)
        npacc       DMUNS10      (ushort: 10)
(U)     allow1      DMBOOL       (enum: 1)
(V)     wordtype    DMCCFWTYP    (enum: 2)
(W)     spare1      DMUNS3       (ushort: 3)
        npanxxcc    DMUNS10      (ushort: 10)
(X)     allow2      DMBOOL       (enum: 1)
        spare2      DMUNS5       (ushort: 5)
    word11      DMCCFWRD     (struct)
        npacc       DMUNS10      (ushort: 10)
(Y)     allow1      DMBOOL       (enum: 1)
(Z)     wordtype    DMCCFWTYP    (enum: 2)
(a)     spare1      DMUNS3       (ushort: 3)
        npanxxcc    DMUNS10      (ushort: 10)
(b)     allow2      DMBOOL       (enum: 1)
        spare2      DMUNS5       (ushort: 5)
    word12      DMCCFWRD     (struct)
        npacc       DMUNS10      (ushort: 10)
(c)     allow1      DMBOOL       (enum: 1)
(d)     wordtype    DMCCFWTYP    (enum: 2)
(e)     spare1      DMUNS3       (ushort: 3)
        npanxxcc    DMUNS10      (ushort: 10)
(f)     allow2      DMBOOL       (enum: 1)
        spare2      DMUNS5       (ushort: 5)
    word13      DMCCFWRD     (struct)
        npacc       DMUNS10      (ushort: 10)
(g)     allow1      DMBOOL       (enum: 1)
(h)     wordtype    DMCCFWTYP    (enum: 2)
(i)     spare1      DMUNS3       (ushort: 3)
        npanxxcc    DMUNS10      (ushort: 10)
(j)     allow2      DMBOOL       (enum: 1)
        spare2      DMUNS5       (ushort: 5)
        User, Compacted and Stored Tuple Layout    CCF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               | |                           |   |
 0 |            anitbl             |a|          locdigs          | b |
   |---------------+---------------+---------------+---------------|
   |       | |   | |   |           |       |       |               |
 4 | tupnum|c| d |e| f |   spare4  |nxx_tup| cc_tup|     spare5    |
   |===============+===========  word00 ===========+===============|
   |                   | |   |     |                   | |         |
 8 |       npacc       |g| h |  i  |      npanxxcc     |j|  spare2 |
   |===============+===========  word01 ===========+===============|
   |                   | |   |     |                   | |         |
12 |       npacc       |k| l |  m  |      npanxxcc     |n|  spare2 |
   |===============+===========  word02 ===========+===============|
```

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```
   |                  | |   |     |                  | |         |
16 |       npacc      |o| p |  q  |      npanxxcc    |r|  spare2 |
   |==============+===========  word03 ==========+==============|
   |                  | |   |     |                  | |         |
20 |       npacc      |s| t |  u  |      npanxxcc    |v|  spare2 |
   |==============+===========  word04 ==========+==============|
   |                  | |   |     |                  | |         |
24 |       npacc      |w| x |  y  |      npanxxcc    |z|  spare2 |
   |==============+===========  word05 ==========+==============|
   |                  | |   |     |                  | |         |
28 |       npacc      |A| B |  C  |      npanxxcc    |D|  spare2 |
   |==============+===========  word06 ==========+==============|
   |                  | |   |     |                  | |         |
32 |       npacc      |E| F |  G  |      npanxxcc    |H|  spare2 |
   |==============+===========  word07 ==========+==============|
   |                  | |   |     |                  | |         |
36 |       npacc      |I| J |  K  |      npanxxcc    |L|  spare2 |
   |==============+===========  word08 ==========+==============|
   |                  | |   |     |                  | |         |
40 |       npacc      |M| N |  O  |      npanxxcc    |P|  spare2 |
   |==============+===========  word09 ==========+==============|
   |                  | |   |     |                  | |         |
44 |       npacc      |Q| R |  S  |      npanxxcc    |T|  spare2 |
   |==============+===========  word10 ==========+==============|
   |                  | |   |     |                  | |         |
48 |       npacc      |U| V |  W  |      npanxxcc    |X|  spare2 |
   |==============+===========  word11 ==========+==============|
   |                  | |   |     |                  | |         |
52 |       npacc      |Y| Z |  a  |      npanxxcc    |b|  spare2 |
   |==============+===========  word12 ==========+==============|
   |                  | |   |     |                  | |         |
56 |       npacc      |c| d |  e  |      npanxxcc    |f|  spare2 |
   |==============+===========  word13 ==========+==============|
   |                  | |   |     |                  | |         |
60 |       npacc      |g| h |  i  |      npanxxcc    |j|  spare2 |
   |==============+==============+==============+==============|
      ( 64 bytes )
          anitbl      unsigned short (ushort)
  (a)     spare1      .0fake       (enum)
          locdigs     .11.fake     (ushort: 14)
  (b)     spare2      .12.fake     (ushort: 2)
          tupnum      .13.fake     (ushort: 4)
  (c)     def_treat   .0fake       (enum)
  (d)     dom_treat   .1fake       (enum)
  (e)     spare3      .0fake       (enum)
  (f)     intl_treat  .1fake       (enum)
          spare4      .14.fake     (ushort: 6)
          nxx_tup     .15.fake     (ushort: 4)
          cc_tup      .16.fake     (ushort: 4)
          spare5      .17.fake     (ushort)
          word        .18.fake     (array [ 14 ] of .3fake )
              npacc       .0.fake      (ushort: 10)
  (g)         allow1      .0fake       (enum)
  (h)         wordtype    .2fake       (enum)
```

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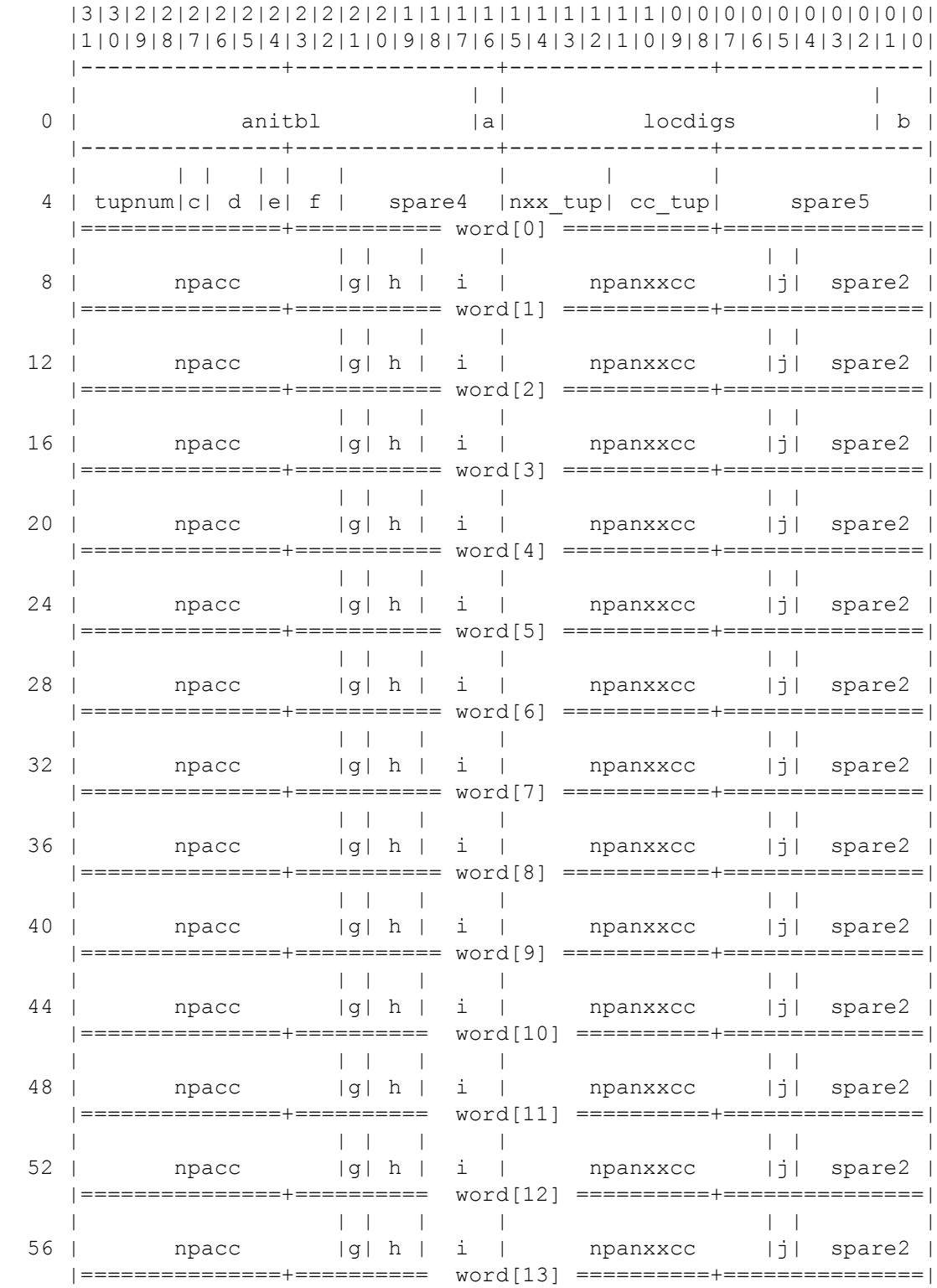
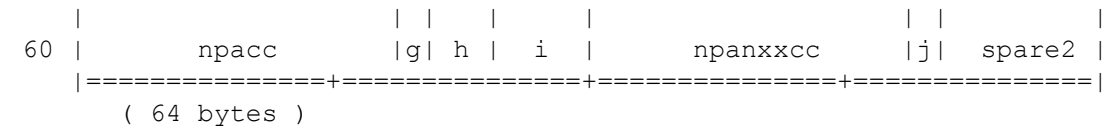
```
  (i)         spare1      .1.fake      (ushort: 3)
              npanxxcc    .2.fake      (ushort: 10)
  (j)         allow2      .0fake       (enum)
              spare2      .3.fake      (ushort: 5)
```

Structure Layout alCCF






## 4. Population Rules for RLccf

**Relation Description** Concentrated call feature (CCF) permission/denial table.
This relation holds numbering plan areas (NPAs)/NPANXXs/country codes (CCs) with allow/deny treatment for ANIs with the CCF. The feature is not committed, so this is spare data created just in case.

**Attribute: anitbl**
**Fullname:** Automatic number identification table index

**Attribute Description:** Obtained from the RLanimod relation.

**Attribute: spare1**
**Fullname:** Spare 1

**Attribute Description** Spare field.

**Attribute: locdigs Fullname:** Local line number of ANI

**Attribute Description:** The local line number; the last four digits of the ANI.

**Attribute: spare2**
**Fullname:** Spare 2

**Attribute Description**: Spare field.

**Attribute: tupnum**
**Fullname:** Tuple number

**Attribute Description:** Provides a unique key to allow multiple tuples per ANI.

**Attribute: def_treat**
**Fullname:** Default treatment

**Attribute Description:** Default treatment for calls from this ANI.

**Attribute: dom_treat**
**Fullname:** Domestic treatment

**Attribute Description**: Treatment for all calls to U.S. destinations from this ANI.

**Attribute: spare3**
**Fullname:** Spare 3

**Attribute Description:** Spare field.

**Attribute: intl_treat**
**Fullname:** International treatment

**Attribute Description**: Treatment for all calls to international destinations from this ANI.

**Attribute: spare4**

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**Fullname:** Spare 4

**Attribute Description:** Spare field.

**Attribute: nxx_tup**
**Fullname:** NXX tuple

**Attribute Description:** Which tupnum to read for the first word containing an NPANXX.

**Attribute: cc_tup**
**Fullname:** Country code tuple

**Attribute Description:** Which tupnum to read for the first word containing CCs.

**Attribute: spare5**
**Fullname:** Spare 5

**Attribute Description**: Spare field.

**Attribute: word[*]**
**Fullname:** Word 00 - 13

**Attribute Description:** Word with NPA/NPANXX/CC data for this ANI.

**Attribute: word[*].npacc**
**Fullname:** NPA/CC

**Attribute Description:** This field contains either an NPA or a CC depending on wordtype.

**Attribute: word[*].allow1**
**Fullname:** Allow 1

**Attribute Description:** Whether to allow calls to this NPA/CC.

**Attribute: word[*].wordtype**
**Fullname:** Word type

**Attribute Description:** Type of data stored in this word, that is 2 NPAs, NPANXX, or 2 CCs.

**Attribute: word[*].spare1**
**Fullname:** Spare 1

**Attribute Description:** Spare field.

**Attribute: word[*].npanxxcc**
**Fullname:** NPA/NPANXX/CC

**Attribute Description:** This field contains an NPA, an NXX, or a CC depending on wordtype.

**Attribute: word[*].allow2**
**Fullname:** Allow 2

**Attribute Description:** Whether to allow calls to this NPA/NXX/CC.

**Attribute: word[*].spare2**
**Fullname:** Spare 2

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**Attribute Description:** Spare field.

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# CCFALW

## 1. Description

NPA-0s or NPA-NXXs that are always allowed for concentrated calling feature calls.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
CCFALW      relid = 2071  DBSTATIC   DBACC_LIN   DBPRAM    FR      NULL
     npanxx      DMBNPANXX    (ulong: 20)     <--- key
     spare1      DMUNS12      (ushort: 12)
         User, Compacted and Stored Tuple Layout CCFALW
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |                                           |                |
  0 |                 npanxx                    |         spare1        |
    |--------------+--------------+--------------+--------------|
       ( 4 bytes )
```

## 4. Population Rules for RLccfalw

**Relation Description** Concentrated calling feature (CCF) allowed destination table This relation holds numbering plan area (NPA)-0s or NPA-office codes (NXXs) which are allows allowed destinations for CCF calls. The feature is not committed, so this is spare data created just in case.

**Attribute: npanxx**

**Fullname:** NPA-0 or NPA-NXX
**Attribute Description:** NPA-0 or NPA-NXX which is always an allowed destination for a CCF call.

**Attribute: spare1**

**Fullname:** Spare 1
**Attribute Description:** Spare field.

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# CCFOVRD

## 1. Description

Concentrated calling feature override table. Holds up to 10 customer-specified override codes per ANI which allow a denied call to complete.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 25000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
CCFOVRD     relid = 2072  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     anitbl      DMANITBL     (ushort: 15)     <--- key
 (a) spare1      DMBOOL       (enum: 1)
     locdigs     DMLINENO     (ushort: 14)     <--- key
 (b) spare2      DMUNS2       (ushort: 2)
     ovrd_cd0    DMBCD8       (ulong)
     ovrd_cd1    DMBCD8       (ulong)
     ovrd_cd2    DMBCD8       (ulong)
     ovrd_cd3    DMBCD8       (ulong)
     ovrd_cd4    DMBCD8       (ulong)
     ovrd_cd5    DMBCD8       (ulong)
     ovrd_cd6    DMBCD8       (ulong)
     ovrd_cd7    DMBCD8       (ulong)
     ovrd_cd8    DMBCD8       (ulong)
     ovrd_cd9    DMBCD8       (ulong)
         User, Compacted and Stored Tuple Layout    CCFOVRD
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               | |                           |   |
  0 |            anitbl             |a|          locdigs          | b |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           ovrd_cd0                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                           ovrd_cd1                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                           ovrd_cd2                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                           ovrd_cd3                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                           ovrd_cd4                            |
    |---------------+---------------+---------------+---------------|
```

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```
    |                                                                   |
 24 |                          ovrd_cd5                                 |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
 28 |                          ovrd_cd6                                 |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
 32 |                          ovrd_cd7                                 |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
 36 |                          ovrd_cd8                                 |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
 40 |                          ovrd_cd9                                 |
    |---------------+---------------+---------------+---------------|
      ( 44 bytes )
RLccfovrd.G
domain alCCFOVR   struct  (5 sub-attributes)
         anitbl      .3.fake      (ushort: 15)
 (a)     spare1      .0fake       (enum)
         locdigs     .4.fake      (ushort: 14)
 (b)     spare2      .5.fake      (ushort: 2)
         ovrd_cd     .6.fake      (array [ 10 ] of unsigned long)
         Structure Layout      alCCFOVR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               | |                           |   |
  0 |            anitbl             |a|          locdigs          | b |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
  4 |                          ovrd_cd                                  |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                   |
  8 |                          ovrd_cd                                  |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                   |
 12 |                          ovrd_cd                                  |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                   |
 16 |                          ovrd_cd                                  |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                   |
 20 |                          ovrd_cd                                  |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                   |
 24 |                          ovrd_cd                                  |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                   |
 28 |                          ovrd_cd                                  |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                   |
 32 |                          ovrd_cd                                  |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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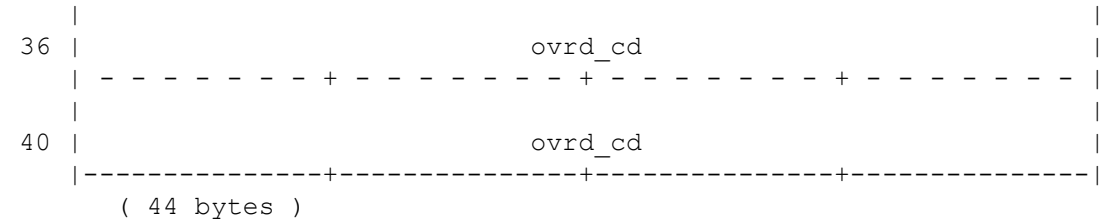


## 4. Population Rules for RLccfovrd

**Relation Description** Concentrated calling feature (CCF) override code table. This relation holds override codes per automatic number identification (ANI) for CCF. The feature is not committed, so this is spare data created just in case.

**Attribute: anitbl**

**Fullname:** Automatic Number Identification Table Index
**Attribute Description**: Obtained from the RLanimod relation.

**Attribute: spare1**

**Fullname:** Spare 1
**Attribute Description** Spare field.

**Attribute: locdigs**

**Fullname:** Local Line Number of ANI
**Attribute Description:** The local line number; the last four digits of the ANI.

**Attribute: spare2**

**Fullname:** Spare 2
**Attribute Description**: Spare field.

**Attribute: ovrd_cd[*]**

**Fullname:** Override Code
**Attribute Description:** One of up to ten override codes allowed for this ANI; one to eight digits are stored in binary coded decimal (BCD) in this field.

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# CCSFEATS

## 1. Description

Common Channel Signaling features. This relation is to indicate features that are active/inactive for CCS.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | CCS |
| relation type | DBSTATIC |
| trigger function | CCccsfeats |
| update trigger | DBYES |
| end of transaction trigger | DBNO |
| ks key store | AUTO |

## 3. Field Layout

```
CCSFEATS    relid = 2580  DBSTATIC   DBACC_CIND  DBPRAM    LP      CCS
     spare5      DMSHORT      (short)
 (a) feats_key   DMBOOL       (enum: 1)     <--- key
 (b) exp_sls     DMBOOL       (enum: 1)
 (c) imp_slt     DMBOOL       (enum: 1)
 (d) mtp_node    DMBOOL       (enum: 1)
 (e) spare1      DMBOOL       (enum: 1)
 (f) spare2      DMBOOL       (enum: 1)
 (g) spare3      DMBOOL       (enum: 1)
 (h) spare4      DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   CCSFEATS
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                | | | | | | | |               |
 0 |             spare5             |a|b|c|d|e|f|g|h|***************|
   |---------------+---------------+---------------+---------------|
      ( 4 bytes )
```

## 4. Population Rules for RLccsfeats

**Relation Description** Common Channel Signaling features relation.
This relation indicates the status of CCS features. The indicators in this relation are used to specify if specific features are active or inactive on the switch.

**Attribute: feats_key**

**Fullname:** Dummy key to the relation,

**Attribute Description:** This is the key to this relation. The key value will always be DBNO.

**Attribute: exp_sls**

**Fullname:** Expanded Signaling Link Set

**Attribute Description:** The value of the Signaling Link Selection (SLS) code determines the specific links and STPs used to route a message. Setting the exp_sls field to Y allows for the expansion of the SLS code to its full 8 bits. Such expansion allows the maximum size of a B or D

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link set to be 16 links compared to the previous value of 8 (Expansion to a number greater than 16 is not currently possible since the signaling link code field, which is used in several network management messages, has only 4 bits.) The expansion also allows a more even traffic distribution on links in a (combined) link set, especially after link failures. For example, with a 5-bit SLS code, traffic load between links in a link set could differ in some cases by a factor of 2. With the 8-bit SLS code, traffic will differ by less than 25% in all cases.

**Attribute: imp_slt**

**Fullname:** Improved Signaling Link Test

**Attribute Description:** The imp_slt field indicates if the Improved SLT feature is active in this office. The Improved SLT feature adds two additional requirements to the existing Signaling Link Test (SLT) procedure. The first requirement clarifies that the test pattern sent in the second signaling link test message should be the same as that seen in the first signaling link test message. This allows the response to the first test message to be accepted as a response to the second test message, in effect allowing twice the time for a response to the first signaling link test message. The second requirement clarifies that when the option to test available (that is, in-service) links periodically is on, the test should be performed even on links which are experiencing transmit or received congestion.

**Attribute: mtp_node**

**Fullname:** Message Transport Protocol Node Restart

**Attribute Description:** The mtp_node field indicates if the MTP Node Restart feature is active in this office. The MTP Restart procedure enables the Message Transfer Part (MTP) at a signaling point that has just become available to bring sufficient signaling links into the available state to handle the expected traffic and to stabilize its routing before user traffic is restarted to the point. This procedure uses the Traffic Restart Allowed (TRA) and Traffic Restart Waiting (TRW) messages. The TRW message is an indication to the receiving signaling point that user signaling traffic (that is, traffic from the users of the MTP, such as ISUP) should not be sent to the originator of the TRW until a TRA message is received from the same signaling point. A TRA is an indication to the receiving signaling point that user signaling traffic may be resumed to the originator of the message. The MTP Restart procedures may not only be performed at a restarting signaling point, but also at signaling points adjacent to the signaling point which is restarting.

**Attribute: spare1**

**Fullname:** spare 1

**Attribute Description:** Boolean spare for future use.

**Attribute: spare2**

**Fullname:** spare 2

**Attribute Description:** Boolean spare for future use.

**Attribute: spare3**

**Fullname:** spare 3

**Attribute Description:** Boolean spare for future use.

**Attribute: spare4**

**Fullname:** spare 4

**Attribute Description:** Boolean spare for future use.

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**Attribute: spare5**

**Fullname:** spare 5

**Attribute Description:** Short spare for future use

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# CDFI_CON

## 1. Description

Relation that gives the connection of CDFI's over the ICLs between an RSM and a mate RSM at a site.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1500 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | DBNO |
| head table size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |

## 3. Field Layout

```
CDFI_CON    relid = 588   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     rsm         DMMODULE     (ushort: 8)     <--- key, not stored
     cdltu       DMUNS3       (ushort: 3)     <--- key, not stored
     cdfi        DMUNS4       (ushort: 4)     <--- key, not stored
 (a) cfac        DMUNS1       (ushort: 1)     <--- key, not stored
     rsm_mate    DMMODULE     (ushort: 8)
 (b) cdfi_mate   DMUNS4       (ushort: 4)
 (c) cdltu_mate  DMUNS3       (ushort: 3)
 (d) cfac_mate   DMUNS1       (ushort: 1)
         User and Compacted Tuple Layout   CDFI_CON
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |     |       | |                               |
  0 |      rsm      |cdltu|  cdfi |a|*******************************|
    |---------------+---------------+---------------+---------------|
    |               |       |     | |                               |
  4 |    rsm_mate   |   b   |  c  |d|*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     rsm_mate    DMMODULE     (ushort: 8)
 (a) cdfi_mate   DMUNS4       (ushort: 4)
 (b) cdltu_mate  DMUNS3       (ushort: 3)
 (c) cfac_mate   DMUNS1       (ushort: 1)
           Stored Tuple Layout     CDFI_CON
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |       |     | |                               |
  0 |    rsm_mate   |   a   |  b  |c|*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLcdfi_con

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**Relation Description** Connections of communications digital facility interfaces over Inter-SM communication links between an RSM and a mate RSM at a site. This relation directly reflects the office-engineered connection between DFI/DFI-2s at an RSM and DFI/DFI-2s at a mate RSM. A mate RSM is another RSM in the same MMRSM site (cluster) connected by means of ICLs. Only tuples for equipped CDFIs should be in the relation. The relations RLCDFI_CON and RLRDFI_CON together describe how all equipped DFIs at an RSM are connected. A particular equipped DFI at an RSM may appear in one and only one of these relations.

**Attribute: rsm**

**Fullname:** Remote Switching Module Number
**Attribute Description** SM number of RSM (from 1 to 192).

**Attribute: cdltu**

**Fullname:** Communications Digital Line to Trunk Unit
**Attribute Description** DLTU number at RSM end (0-5), or DLTU_E number at RSM end (0-5).

**Attribute: cdfi**

**Fullname:** Communications Digital Facility Interface
**Attribute Description** For T1 facilities, CDFI or CDFI2 number at RSM end (1-10, stored as 0-9). For ITU-TS/CEPT facilities, CDFI or CDFI2 number at RSM end (1-16, stored as ^0-15).

**Attribute: cfac**

**Fullname:** Communications Digital Facility Interface Relative Facility Number
**Attribute Description** Relative Facility number on CDFI (0) and CDFI2 (0-1).

**Attribute: rsm_mate**

**Fullname:** SM Number of Mate RSM
**Attribute Description** SM number of mate RSM (1-192).

**Attribute: cdltu_mate**

**Fullname:** Communications Digital Line Trunk Unit at Mate RSM
**Attribute Description** DLTU number at mate RSM end (0-5) or DLTU_E number at mate RSM end (0-5).

**Attribute: cdfi_mate**

**Fullname:** Communications Digital Facility Interface at RSM Mate
**Attribute Description** For T1 facilities, CDFI or CDFI2 number at mate RSM end (1-10, stored as 0-9). For ITU-TS/CEPT facilities, CDFI or CDFI2 number at mate RSM end (1-16, stored as (0-15).

**Attribute: cfac_mate**

**Fullname:** Mate Cluster Digital Facility Interface Relative Facility Number
**Attribute Description** Relative facility number on mate CDFI (0) and CDFI2 (0-1).

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# CDFI_MAP

## 1. Description

This SM relation gives the end-to-end CDFI connection information for the Inter-RSM Communication Links (ICL)s in a multimodule RSM. Also, this SM relation gives the CDFIs that may be used as timing ICLs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 18 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
CDFI_MAP    relid = 583   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     near_cdfi   DMCIRCUIT    (ushort) <--- key
     far_cdfi    DMCIRCUIT    (ushort)
     alt_cdfi    DMCIRCUIT    (ushort)
     far_cfac    DMCIRCUIT    (ushort)
     far_oefac   DMCIRCUIT    (ushort)
     far_rcl     DMCIRCUIT    (ushort)
     far_picb    DMPICB       (ushort)
     far_rsm     DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout   CDFI_MAP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |           near_cdfi           |            far_cdfi           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            alt_cdfi           |            far_cfac           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |           far_oefac           |            far_rcl            |
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
 12 |            far_picb           |    far_rsm    |***************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population rules for RLcdfi_map

### Relation Description

```
CDFI maps
This SM relation gives the end-to-end CDFI
connection information for the ICLs (Inter-RSM
Communication Links) in a multimodule RSM.
Also, this SM relation gives the CDFIs that
may be used as timing ICLs.
```

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This relation should have a tuple for each operational circuit of type PCCFAC populated in this RSM's RLCKTDATA relation. A PCCFAC is a circuit which terminates the (ICL) facility running between two RSMs in a multi-module RSM. The key to this relation is the internal circuit name of the PCCFAC, which is also the key to the RLCKTDATA relation. The non-key attributes of this relation give the far end connection for a given PCCFAC in terms of the far-end RSM number and the internal circuit name of the PCCFAC at the far end.
This relation (RLCDFI_MAP) must be consistent with the corresponding tuples in the RLRSMFAC_CON relation, which also contains end-to-end connections for CFACs (except using external circuit names). Further, tuples in RLCDFI_MAP for a given RSM must be consistent with the corresponding tuples in each far-end RSM's RLCDFI_MAP relation.

**Attribute:**
near_cdfi
**Fullname:**
near end of cdfi
**Attribute Description:**
The internal circuit name for the Communication Facility (PCCFAC) terminating the near end of an ICL, that is, it resides in the same RSM where this relation is populated. This must be a valid, operational (SMOPER) Communication Facility, as populated in this RSM's RLCKTDATA relation, with name (key) equal to this attribute, type of PCCFAC, and eqstat of SMGROW or SMOPER.

**Attribute:**
far_rsm
**Fullname:**
far end of RSM
**Attribute Description:**
The SM number for the RSM at the far end that the T1 junctor associated with the near_cdfi terminates on. This must be a valid, equipped RSM, as shown by a tuple in the AM relation RLMODATT whose key is the same as this attribute. In addition, it must be an RSM in the same multimodule RSM, as shown by (1) a tuple in the SM relation RLMATATT whose key is the same as this attribute, by (2) equal 'clid' attributes in the AM relation RLMODATT for the tuples with keys equal to this attribute and the SM number of the RSM this relation is populated on, and by (3) an entry equal to this attribute in one of the attributes rm01 - rm10 in the AM relation RLCLIDAT for the tuple corresponding to this cluster. The key to the CLIDAT tuple is the same as the 'clid' attribute of the AM relation RLMODATT discussed above.

**Attribute:**

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far_cdfi

**Fullname:**

far end of communication digital facility interface

**Attribute Description:**

The internal circuit name for the far end of the Communication Digital Facility Interface (PCCDFI/PCCDFI2) which terminates to a 24-channel T1 facility (called an ICL) whose time-slots are used to carry traffic and control information between RSMs in a MMRSM cluster.

**Attribute:**

far_cfac

**Fullname:**

far end of communication facility

**Attribute Description:**

The internal circuit name for the Communication Facility (PCCFAC) terminating the far end of an ICL, that is, it resides in an RSM at the other end of a T1 cable which also terminates in the current RSM (where this relation is populated). Specifically, it terminates to the PCCFAC circuit specified in the 'near_cdfi' attribute above.
This must be a valid, operational Comm. Facility, as populated in the RLCKTDATA relation resident on the RSM designated by 'far_rsm', with key name equal to this attribute, type of PCCFAC, and eqstat of SMGROW or SMOPER.

**Attribute:**

far_oefac

**Fullname:**

other end of the communication facility

**Attribute Description:**

The internal pseudo-circuit name on an RSM representing the half of the ICL time-slots owned by the RSM at the other end of an ICL.

**Attribute:**

far_rcl

**Fullname:**

far end of remote communication link

**Attribute Description:**

The internal circuit name which is the Derived Data Link (DDL) communication channel associated with an ICL. As populated in the RLCKTDATA relation resident on the far RSM, there is one RCL tuple associated with each CFAC tuple.

**Attribute:**

far_picb

**Fullname:**

far end peripheral interface control bus

**Attribute Description:**

The Peripheral Interface Control Bus (PICB) number terminating to the far end CDFI-1 or CDFI-2 board.

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This attribute is populated with the picb number directly, without a 'plus 1' augmentation.

**Attribute:**
alt_cdfi
**Fullname:**
the alternate cdfi
**Attribute Description:**
The internal circuit name for the alternate PCCFAC that is associated with the 'near_cdfi' PCCFAC to be used as an ICL timing source. If this tuple's key (near_cdfi) is not to be used as an ICL timing source, then this attribute will be zero.
This must be a valid Comm. Facility, as populated in this RSM's RLCKTDATA relation, with key name equal to this attribute, type of PCCFAC, and eqstat of SMGROW or SMOPER.
In addition, this attribute (alt_cdfi) will have a tuple in this RSM's RLCDFI_MAP relation with the key being equal to this attribute and the 'alt_cdfi' attribute equal to THIS tuple's 'near_cdfi' (that is, there is an associated tuple with the two attributes reversed).

**Defines:**
"db/DMcircuit.h"

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# CDNCHAN

## 1. Description

Common directory number to PH channels.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 7680 |
| expected number of tuples | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 3 |
| ks keystore | AUTO |
| trigger function | RTrcdnchan |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
CDNCHAN     relid = 1786  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     dn           DMLOCDN      (struct)     <--- key, not stored, compacted
         noc          DMNOC        (ushort: 8)
         digits       DMLOCDIG     (array [ 4 ] of char )
     dport        DMPORT       (ushort)
     ph_number    DMPHNBR      (uchar: 7)
 (a) mlhg_flag    DMBOOL       (enum: 1)
     tcid         DMPSTHRUPT   (enum: 4)
     party        DMPARTY      (ushort: 4)
     dchan        DMPSCMCN     (struct)
         phcn         DMPHCN       (uchar: 7)
 (b)     cctype       DMPSCCTYPE   (enum: 2)
 (c)     assigned     DMBOOL       (enum: 1)
 (d)     routable     DMBOOL       (enum: 1)
     bchan1       DMPSCMCN     (struct)
         phcn         DMPHCN       (uchar: 7)
 (e)     cctype       DMPSCCTYPE   (enum: 2)
 (f)     assigned     DMBOOL       (enum: 1)
 (g)     routable     DMBOOL       (enum: 1)
     bchan2       DMPSCMCN     (struct)
         phcn         DMPHCN       (uchar: 7)
 (h)     cctype       DMPSCCTYPE   (enum: 2)
 (i)     assigned     DMBOOL       (enum: 1)
 (j)     routable     DMBOOL       (enum: 1)
            User Tuple Layout   CDNCHAN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+=============  dn =============+===============|
    |               |               |                                 |
  0 |***************|      noc      |             digits              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
    |                               |                                 |
  4 |             digits            |*********************************|
```

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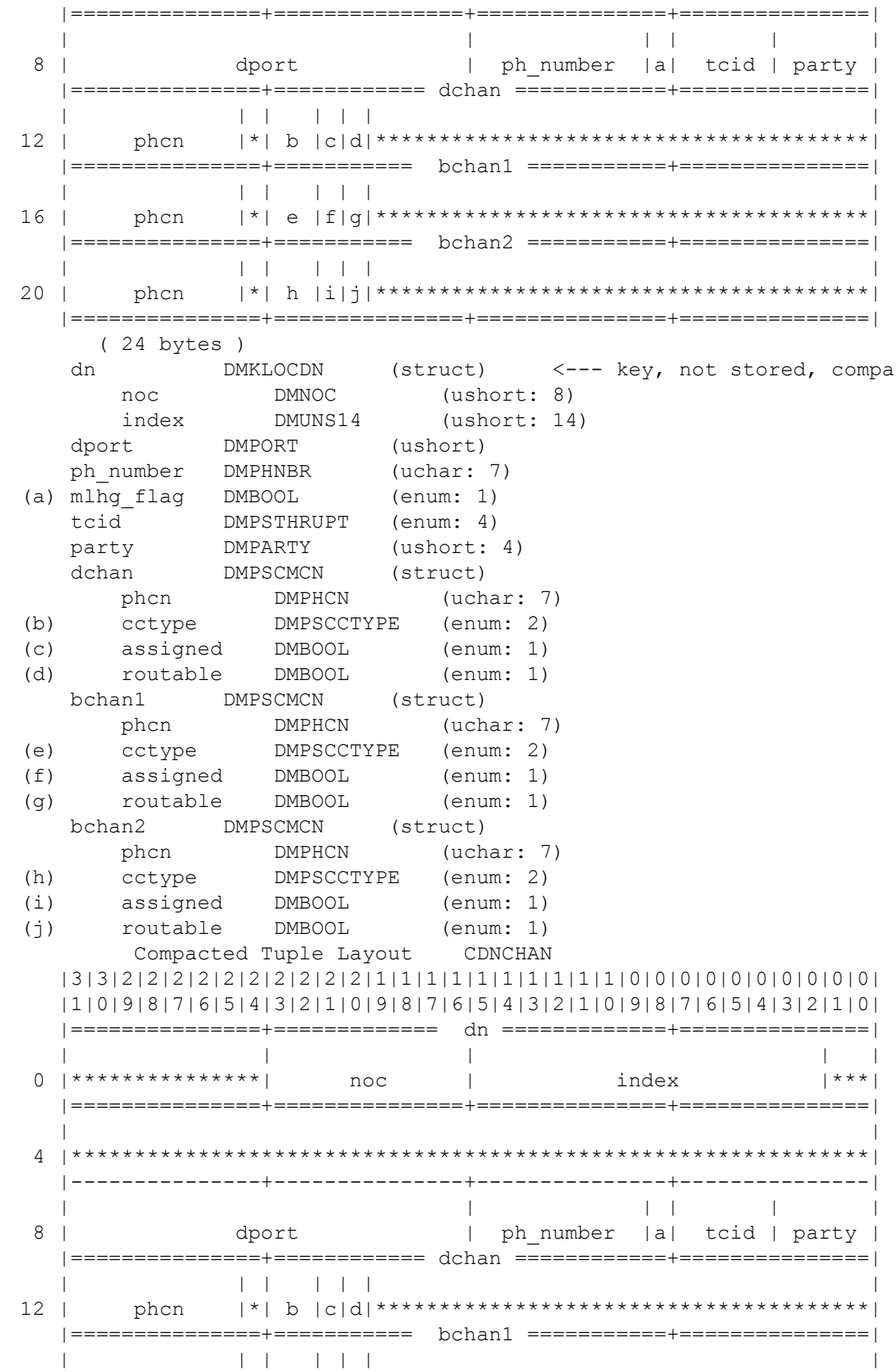


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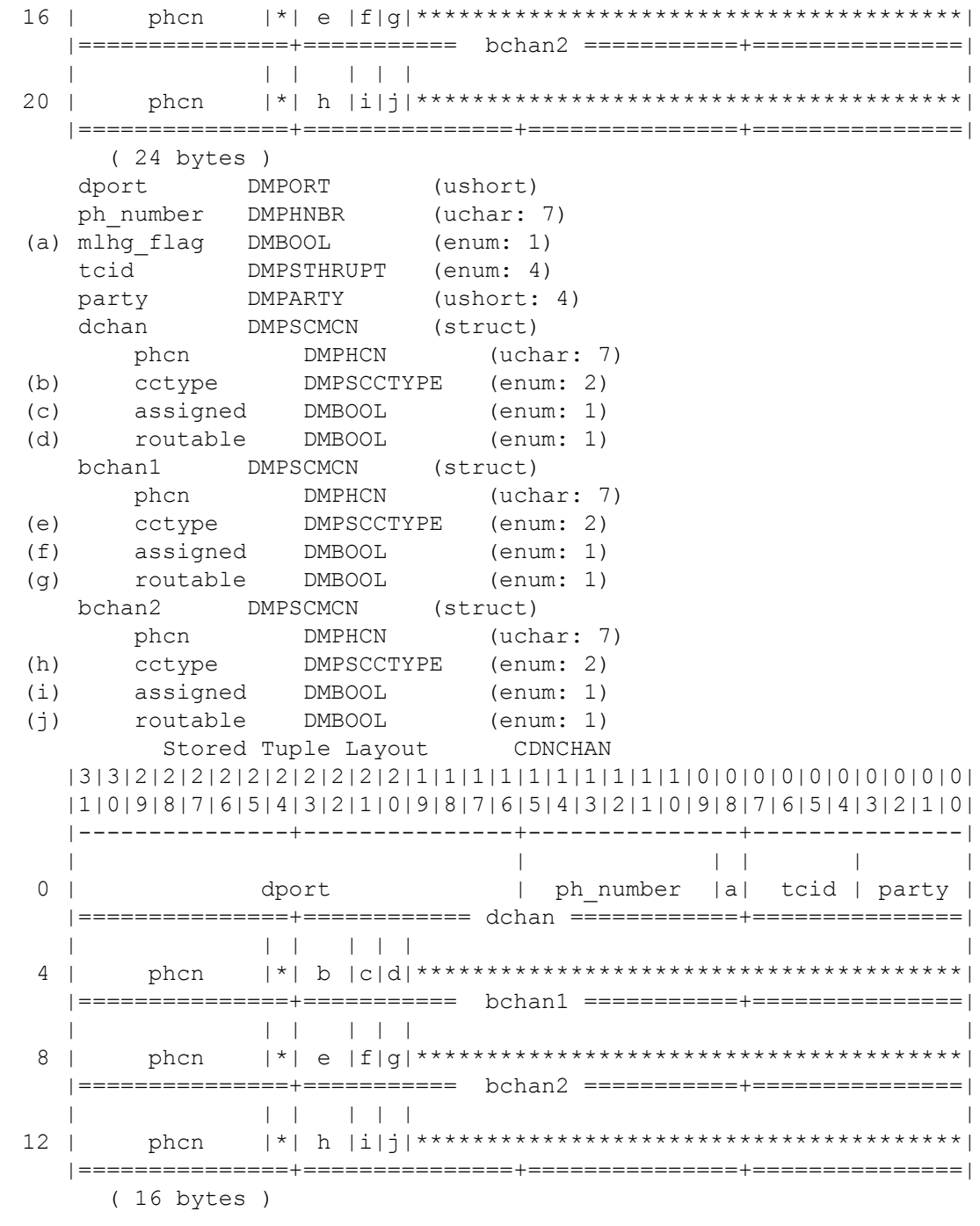


## 4. Population Rules for RLcdnchan

**Relation Description** Common Directory Number Channel Information

This relation defines the information stored on all channels belonging to a Common Directory Number. A user may subscribe to a single 'Common' Directory Number for all of the user packet service types (that is, Permanent Packet on the D-Channel, Permanent Packet on the B-Channel, and On-Demand B-Channel). When a call is terminated to the Common DN, a channel is selected to offer the call based on the information stored in this relation.

The RLcdnchan is setup READ-FIRST-READ-NEXT access on both the mlhg_flag and ph_number attributes.

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If two B-Channels belong to a Common DN then they must be listed in RLcdnchan according to the following precedence.

1) Permanent Packet on the B1-Channel
2) Permanent Packet on the B2-Channel
3) First On-Demand B-Channel assigned
4) Second On-Demand B-Channel assigned

The following tuple semantics detail the allowed values for the possible combinations of channels with a Common DN.

```
TUPLE SEMANTICS for a D-Channel and two PPBs
-------------------------------------------
dn                Common Directory Number
dchan.assigned    DBYES (D-Channel assigned)
dchan.cctype      PSCCDCHN (D-Channel)
dchan.phcn        Protocol Handler Channel Number
dchan.routable    {DBYES,DBNO}
bchan1.assigned   DBYES (B-Channel 1 assigned)
bchan1.cctype     PSCCPPB (Permanent Packet B-Channel)
bchan1.phcn       Protocol Handler Channel Number for PPB1
bchan1.routable   {DBYES,DBNO}
bchan2.assigned   DBYES (B-Channel 2 assigned)
bchan2.cctype     PSCCPPB (Permanent Packet B-Channel)
bchan2.phcn       Protocol Handler Channel Number for PPB2
bchan2.routable   {DBYES,DBNO}
ph_number         Protocol Handler Number
dport             D-Channel Port
party             D-Channel Party
tcid              {PSTHNULL, PS75BPS, PS150BPS, PS300BPS, PS600BPS,
                   PS1200BPS, PS2400BPS, PS4800BPS, PS9600BPS}
mlhg_flag         {DBYES,DBNO}
TUPLE SEMANTICS for a D-Channel, PPB, and ODB
 ---------------------------------------------
  dn              Common Directory Number
 dchan.assigned   DBYES (D-Channel  assigned)
dchan.cctype      PSCCDCHN (D-Channel)
dchan.phcn        Protocol  Handler Channel Number
dchan.routable    {DBYES,DBNO}
bchan1.assigned   DBYES  (B-Channel 1 assigned)
bchan1.cctype     PSCCPPB (Permanent Packet B-Channel)
bchan1.phcn       Protocol Handler Channel Number
bchan1.routable   {DBYES,DBNO}  bchan2.assigned
DBYES             (B-Channel 2 assigned)
bchan2.cctype     PSCCODB (On-Demand B-Channel)
bchan2.phcn       Protocol Handler Channel Number
bchan2.routable   {DBYES,DBNO}
ph_number         Protocol Handler Number
dport             D-Channel Port
party             D-Channel Party
tcid              {PSTHNULL, PS75BPS,  PS150BPS, PS300BPS, PS600BPS,
                    PS1200BPS, PS2400BPS, PS4800BPS,  PS9600BPS}
mlhg_flag         {DBYES,DBNO}

TUPLE SEMANTICS for a D-Channel and two ODBs
-------------------------------------------
```

```
dn                Common Directory Number
dchan.assigned    DBYES (D-Channel  assigned)
dchan.cctype      PSCCDCHN (D-Channel)
dchan.phcn        Protocol  Handler Channel Number
dchan.routable    {DBYES,DBNO} bchan1.assigned
DBYES             (B-Channel 1 assigned)
bchan1.cctype     PSCCODB (On-Demand B-Channel)
bchan1.phcn       Protocol Handler Channel Number
bchan1.routable   {DBYES,DBNO}
bchan2.assigned   DBYES (B-Channel 2 assigned)
bchan2.cctype     PSCCODB (On-Demand B-Channel)
bchan2.phcn       Protocol Handler Channel Number
bchan2.routable   {DBYES,DBNO}
ph_number         Protocol Handler Number
dport             D-Channel Port
party             D-Channel Party
tcid              {PSTHNULL, PS75BPS, PS150BPS,  PS300BPS, PS600BPS,
                    PS1200BPS, PS2400BPS, PS4800BPS, PS9600BPS}
mlhg_flag         {DBYES,DBNO}

TUPLE SEMANTICS for a D-Channel and PPB
 ---------------------------------------
dn                Common Directory Number
dchan.assigned    DBYES (D-Channel assigned)
dchan.cctype      PSCCDCHN (D-Channel)
dchan.phcn        Protocol  Handler Channel Number
dchan.routable    {DBYES,DBNO}
bchan1.assigned   DBYES  (B-Channel 1 assigned)
bchan1.cctype     PSCCPPB (Permanent Packet B-Channel)
bchan1.phcn       Protocol Handler Channel Number
bchan1.routable   {DBYES,DBNO}
bchan2.assigned   DBNO (B-Channel 2 not assigned)
bchan2.cctype     PSCCNULL
bchan2.phcn       0 bchan2.routable
DBNO              ph_number
                  Protocol Handler  Number
dport             D-Channel Port
party             D-Channel Party
tcid              {PSTHNULL, PS75BPS, PS150BPS, PS300BPS, PS600BPS,
                     PS1200BPS, PS2400BPS, PS4800BPS, PS9600BPS}
mlhg_flag         {DBYES,DBNO}

TUPLE SEMANTICS for a D-Channel and ODB
 ---------------------------------------
dn                Common Directory Number
dchan.assigned    DBYES (D-Channel  assigned)
dchan.cctype      PSCCDCHN (D-Channel)
dchan.phcn        Protocol  Handler Channel Number
dchan.routable    {DBYES,DBNO}
bchan1.assigned   DBYES  (B-Channel 1 assigned)
bchan1.cctype     PSCCODB (On-Demand B-Channel)
bchan1.phcn       Protocol Handler Channel Number
bchan1.routable   {DBYES,DBNO}
bchan2.assigned   DBNO (B-Channel 2 not assigned)
```

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```
bchan2.cctype    PSCCNULL
bchan2.phcn      0
bchan2.routable  DBNO
ph_number        Protocol Handler Number
dport            D-Channel Port
party            D-Channel Party
tcid              {PSTHNULL, PS75BPS, PS150BPS, PS300BPS, PS600BPS,
                   PS1200BPS,  PS2400BPS, PS4800BPS, PS9600BPS}
mlhg_flag        {DBYES,DBNO}

TUPLE SEMANTICS for a two PPBs without a D-Channel
 ------------------------------------------------
dn               Common Directory Number
dchan.assigned   DBNO (D-Channel not assigned)
dchan.cctype     PSCCNULL
dchan.phcn       0
dchan.routable   DBNO
bchan1.assigned  DBYES (B-Channel 1 assigned)
bchan1.cctype    PSCCPPB  (Permanent Packet B-Channel)
bchan1.phcn      Protocol Handler Channel Number
bchan1.routable  {DBYES,DBNO}
bchan2.assigned  DBYES (B-Channel 2 assigned)
bchan2.cctype    PSCCPPB (Permanent Packet B-Channel)
bchan2.phcn      Protocol  Handler Channel Number
bchan2.routable  {DBYES,DBNO}
ph_number        Protocol  Handler Number
dport            D-Channel Port
party            FCP_BCHAN
tcid             PSTHNULL
mlhg_flag        {DBYES,DBNO}

TUPLE SEMANTICS for a PPB and an ODB without a D-Channel
 ------------------------------------------------------
dn               Common Directory Number
dchan.assigned   DBNO (D-Channel  not assigned)
dchan.cctype     PSCCNULL
dchan.phcn       0
dchan.routable   DBNO
bchan1.assigned  DBYES (B-Channel 1 assigned)
bchan1.cctype    PSCCPPB  (Permanent Packet B-Channel)
bchan1.phcn      Protocol Handler Channel Number
bchan1.routable  {DBYES,DBNO}
bchan2.assigned  DBYES (B-Channel 2 assigned)
bchan2.cctype    PSCCODB (On-Demand B-Channel)
bchan2.phcn      Protocol Handler  Channel Number
bchan2.routable  {DBYES,DBNO}
ph_number        Protocol Handler Number
dport            D-Channel Port
party            D-Channel Party
tcid             PSTHNULL
mlhg_flag        {DBYES,DBNO}

TUPLE SEMANTICS for two ODBs without a D-Channel
------------------------------------------------------
```

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```
dn                Common Directory Number
dchan.assigned    DBNO (D-Channel  not assigned)
dchan.cctype      PSCCNULL
dchan.phcn        0
dchan.routable    DBNO
bchan1.assigned   DBYES (B-Channel 1 assigned)
bchan1.cctype     PSCCODB  (On-Demand B-Channel)
bchan1.phcn       Protocol Handler Channel Number
bchan1.routable   {DBYES,DBNO}
bchan2.assigned   DBYES (B-Channel 2 assigned)
bchan2.cctype     PSCCODB (On-Demand B-Channel)
bchan2.phcn       Protocol Handler Channel Number
bchan2.routable   {DBYES,DBNO}
ph_number         Protocol Handler Number
dport             D-Channel Port
party             D-Channel Party
tcid              PSTHNULL
mlhg_flag         {DBYES,DBNO}"
```

**Attribute: dn**

**Fullname:** Directory Number.

**Attribute Description** This attribute contains the Common Directory Number for channels contained in the relation. A corresponding tuple of RLpr_dntran must exist for the Common DN.

**Attribute: dn.noc**

**Fullname:** Normalized Office Code.

**Attribute Description** This attribute contains the normalized office code for the Common Directory Number. The range for this attribute is from 1 to AVNOCMAX().

**Attribute: dn.digits**

**Fullname:** Digits.

**Attribute Description** This attribute contains the digits for the Common Directory Number.

**Attribute: ph_number**

**Fullname:** Protocol Handler Number.

**Attribute Description** This attribute specifies the Protocol Handler Number or DSL Group number that all of the channels of the Common DN are on.

**Attribute: party**

**Fullname:** D-Channel Party.

**Attribute Description** If an On-Demand B-Channel or Permanent Packet D-Channel is part of the Common DN, then this attribute contains the value of the party that is associated the user subscribing to the Common DN. If only Permanent Packet B-Channels are part of the Common DN, then the party is #FCP_BCHAN.

**Attribute: dchan**

**Fullname:** D-Channel.

**Attribute Description** This attribute contains the routing information about the D-Channel of the Common DN.

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**Attribute: dchan.phcn**

**Fullname:** D-Channel Protocol Handler Channel.

**Attribute Description** This sub-attribute contains the Protocol Handler channel number of the D-Channel. If the D-Channel is not assigned, then this attribute has a value of 0.

**Attribute: dchan.cctype**

**Fullname:** D-Channel Common Channel Type

**Attribute Description** This sub-attribute contains the common channel type for the D-Channel. The Common Channel Type specifies the type of channel assigned to the Common DN. The allowed values for this sub-attribute are PSCCDCHN (D-Channel) and PSCCNULL (Null Value).

If the D-Channel is assigned to the Common DN, then this subattribute has a value of PSCCDCHN. The value PSCCNULL is used when the D-Channel is not assigned to the Common DN.

**Attribute: dchan.assigned**

**Fullname:** Is the D-Channel assigned?

**Attribute Description** This sub-attribute specifies whether the D-Channel has been assigned to the Common DN.

**Attribute: dchan.routable**

**Fullname:** Is the D-Channel routable?

**Attribute Description** This sub-attribute specifies whether the D-Channel is routable for incoming calls. The D-Channel is routable for incoming calls if it has incoming or two-way LCNs and does not have incoming calls barred. If the D-Channel is not assigned, then the value of this sub-attribute is DBNO.

**Attribute: bchan1**

**Fullname:** First B-Channel.

**Attribute Description** This attribute contains the routing information about the B-Channel 1 of the Common DN. The term 'B-Channel 1' does not imply that the channel is associated with the B1 Channel. The term 'B-Channel 1' is the associated with the PH Channel that is the first preference for routing B-Channel calls.

The B-Channel 1 attribute is the first channel on the following list that has been provisioned.

(1) Permanent Packet on the B1-Channel

(2) Permanent Packet on the B2-Channel

(3) First On-Demand B-Channel Packet assigned

**Attribute: bchan1.phcn**

**Fullname:** B-Channel1 Protocol Handler Channel.

**Attribute Description** This sub-attribute contains the Protocol Handler channel number of the B-Channel 1.

**Attribute: bchan1.cctype**

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**Fullname:** B-Channel 1 Common Channel Type

**Attribute Description** This sub-attribute contains the common channel type for the B-Channel 1. The Common Channel Type specifies the type of channel assigned to the Common DN. The allowed values for this sub-attribute are PSCCPPB (Permanent Packet B-Channel) and PSCCODB (On-Demand B-Channel).

If the Common Channel Type is PSCCODB, then B-Channel 1 must be an On-Demand B-Channel. If the Common Channel Type is PSCCPPB, then the B-Channel 1 must be a Permanent Packet B-Channel.

**Attribute: bchan1.assigned**

**Fullname:** Is the B-Channel1 assigned?

**Attribute Description** This sub-attribute specifies whether the B-Channel1 has been assigned to the Common DN.

For a DN to be a Common DN, at least two channels must share the Common DN; therefore, at least the first B-Channel must be assigned.

**Attribute: bchan1.routable**

**Fullname:** Is the B-Channel1 routable?

**Attribute Description** This sub-attribute specifies whether the B-Channel1 is routable for incoming calls. The B-Channel1 is routable for incoming calls if it has incoming or two-way LCNs and does not have incoming calls barred.

**Attribute: bchan2**

**Fullname:** Second B-Channel.

**Attribute Description** This attribute contains the routing information about the B-Channel 2 of the Common DN. The term 'B-Channel 2' does not imply that the channel is associated with the B2 Channel. The term 'B-Channel 2' is associated with the PH channel that is the second preference for routing B-Channel calls.

The B-Channel 2 attribute is the first channel on the following list that has been provisioned.

```
1) Permanent Packet on the B2-Channel (only if bchan1 = PPB1)
2) First On-Demand B-Channel Packet assigned (only if bchan1 = PPB)
3) Second On-Demand B-Channel Packet assigned
```

**Attribute: bchan2.phcn**

**Fullname:** B-Channel2 Protocol Handler Channel.

**Attribute Description** This sub-attribute contains the Protocol Handler channel number of the B-Channel 2. If the B-Channel 2 is not assigned, then the value of this attribute is 0.

**Attribute: bchan2.cctype**

**Fullname:** B-Channel 2 Common Channel Type

**Attribute Description** This sub-attribute contains the common channel type for the B-Channel 2. The Common Channel Type specifies the type of channel assigned to the Common DN. The allowed values for this sub-attribute are PSCCPPB (Permanent Packet B-Channel), PSCCODB (On-Demand B-Channel), and PSCCNULL (Null Value).

If the B-Channel 2 is assigned to the Common DN, then this subattribute has a value of PSCCODB or PSCCPPB. The value PSCCNULL is used when the B-Channel 2 is not assigned to the

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Common DN.

If the Common Channel Type is PSCCODB, then B-Channel 2 must be an On-Demand B-Channel. If the Common Channel Type is PSCCPPB, then the B-Channel 2 must be a Permanent Packet B-Channel.

**Attribute: bchan2.assigned**

**Fullname:** Is the B-Channel2 assigned?

**Attribute Description** This sub-attribute specifies whether the B-Channel2 has been assigned to the Common DN.

**Attribute: bchan2.routable**

**Fullname:** Is the B-Channel2 routable?

**Attribute Description** This sub-attribute specifies whether the B-Channel2 is routable for incoming calls. The B-Channel2 is routable for incoming calls if it has incoming or two-way LCNs and does not have incoming calls barred.

**Attribute: tcid**

**Fullname:** Throughput Class Indicator on the D-Channel.

**Attribute Description** This attribute contains the Throughput Class Indicator on the D-Channel. All incoming calls to the Common DN with a throughput class less than the Throughput Class Indicator are routed to the D-Channel. If the D-Channel is not assigned, then the attribute has a value of PSTHNULL. If the D-Channel is assigned, then the tcid attribute may have any of the following values: {PSTHNULL, PS75BPS, PS150BPS, PS300BPS, PS600BPS, PS1200BPS, PS2400BPS, PS4800BPS, PS9600BPS}.

The tcid attribute has a calculated value instead of a default value. If a D-Channel is not part of the Common DN and the value for tcid is unknown, then the calculated value for the tcid attribute is PSTHNULL. If a D-Channel is part of the Common DN and the value for tcid is unknown, then the calculated value for the tcid attribute is PS9600BPS.

**Attribute: mlhg_flag**

**Fullname:** Packet MLHG member

**Attribute Description** The channels assigned to the common individual DN make up a common packet MLHG member.

Each channel assigned must have a tuple in RLpsprt_gp where the group and member numbers are the same.

**Attribute: dport**

**Fullname:** D channel port number

**Attribute Description** Specifies the D port that the channels assigned use.

The D port if used or not will always be populated for the assigned channels. Two PPB's don't need a D channel but the D port associated with their DSL will still be used.

**Defines:**

"db/DMparty.h"

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# CDRMK_R

## 1. Description

Root storage relation for RC_CDRMK.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTORAGE |
| head table size | 256 |
| data page size | 512 |

## 3. Field Layout

```
CDRMK_R     relid = 1672  DBSTORAGE  DBACC_HASH  DBPRAM    LP      RCDATA
     carrid      DMCIC4       (array [ 4 ] of char )     <--- key
     remarks     DMGK16       (ulong: 16)
     dest_x      DMDESTIDX    (ushort: 12)     <--- key
 (a) featgrp     DMFEATGRP    (enum: 2)     <--- key
         User, Compacted and Stored Tuple Layout    CDRMK_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                             carrid                            |
    |---------------+---------------+---------------+---------------|
    |                                 |                       |   |   |
  4 |            remarks              |         dest_x        | a |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLcdrmk_r

There are no population rules for this relation.

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# CF_CF

## 1. Description

This relation contains a call forwarding constructed feature in modular feature customization capability (MFC).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 700 |
| expected tuples in relation | 560 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
CF_CF       relid = 465   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL


    feat_id     DMMCC_FID    (ushort)  <--- key, not stored
(a) fwd_cndtn   DMCF_CNDTN   (enum: 4)
    actvn       DMMC_ACTYP   (enum: 3)
(b) cfpf_alwd   DMBOOL       (enum: 1)
(c) dctvn       DMMC_DCTYP   (enum: 2)
(d) chg_datim   DMBOOL       (enum: 1)
(e) chg_fwdn    DMBOOL       (enum: 1)
(f) cfdarc      DMBOOL       (enum: 1)
(g) cs_alwd     DMBOOL       (enum: 1)
(h) ffcf1       DMBOOL       (enum: 1)
(i) ffcf2       DMBOOL       (enum: 1)
(j) ffcf3       DMBOOL       (enum: 1)
(k) ffcf4       DMBOOL       (enum: 1)
    call_fltr   DMMCCLFLTR   (struct)
(l)     intratg     DMBOOL       (enum: 1)
(m)     intraoff    DMBOOL       (enum: 1)
(n)     interoff    DMBOOL       (enum: 1)
(o)     pf          DMBOOL       (enum: 1)
(p)     attndnt     DMBOOL       (enum: 1)
    dnfltr      DMMCDNFLTR   (struct)
(q)     all_pass    DMBOOL       (enum: 1)
(r)     optn_a      DMBOOL       (enum: 1)
(s)     optn_b      DMBOOL       (enum: 1)
(t)     optn_c      DMBOOL       (enum: 1)
(u)     optn_d      DMBOOL       (enum: 1)
(v)     optn_e      DMBOOL       (enum: 1)
(w)     optn_f      DMBOOL       (enum: 1)
(x)     optn_g      DMBOOL       (enum: 1)
(y)     optn_h      DMBOOL       (enum: 1)
(z)     optn_i      DMBOOL       (enum: 1)
(A)     optn_j      DMBOOL       (enum: 1)
(B)     optn_k      DMBOOL       (enum: 1)
(C)     optn_l      DMBOOL       (enum: 1)
(D)     optn_m      DMBOOL       (enum: 1)
(E)     optn_n      DMBOOL       (enum: 1)
```

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```
(F)     optn_o      DMBOOL       (enum: 1)
(G)     optn_p      DMBOOL       (enum: 1)
(H)     optn_q      DMBOOL       (enum: 1)
(I)     optn_18     DMBOOL       (enum: 1)
(J)     optn_19     DMBOOL       (enum: 1)
(K)     optn_20     DMBOOL       (enum: 1)
(L)     optn_21     DMBOOL       (enum: 1)
(M)     optn_22     DMBOOL       (enum: 1)
(N)     optn_23     DMBOOL       (enum: 1)
(O)     optn_24     DMBOOL       (enum: 1)
(P)     optn_25     DMBOOL       (enum: 1)
(Q)     optn_26     DMBOOL       (enum: 1)
(R)     optn_27     DMBOOL       (enum: 1)
(S)     optn_28     DMBOOL       (enum: 1)
(T)     optn_29     DMBOOL       (enum: 1)
(U)     optn_30     DMBOOL       (enum: 1)
(V)     optn_31     DMBOOL       (enum: 1)
        User and Compacted Tuple Layout  CF_CF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             feat_id           |*******************************|
   |---------------+---------------+---------------+---------------|
   |       |     | |   | | | | | | | |                               |
 4 |   a   |actvn|b| c |d|e|f|g|h|i|j|k|***************************|
   |===============+========== call_fltr ==========+===============|
   | | | | | |                                                     |
 8 |l|m|n|o|p|*****************************************************|
   |===============+===========  dnfltr ===========+===============|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
12 |q|r|s|t|u|v|w|x|y|z|A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|
   |===============+===============+===============+===============|
      ( 16 bytes )


(a) fwd_cndtn   DMCF_CNDTN   (enum: 4)
    actvn       DMMC_ACTYP   (enum: 3)
(b) cfpf_alwd   DMBOOL       (enum: 1)
(c) dctvn       DMMC_DCTYP   (enum: 2)
(d) chg_datim   DMBOOL       (enum: 1)
(e) chg_fwdn    DMBOOL       (enum: 1)
(f) cfdarc      DMBOOL       (enum: 1)
(g) cs_alwd     DMBOOL       (enum: 1)
(h) ffcf1       DMBOOL       (enum: 1)
(i) ffcf2       DMBOOL       (enum: 1)
(j) ffcf3       DMBOOL       (enum: 1)
(k) ffcf4       DMBOOL       (enum: 1)
    call_fltr   DMMCCLFLTR   (struct)
(l)     intratg     DMBOOL       (enum: 1)
(m)     intraoff    DMBOOL       (enum: 1)
(n)     interoff    DMBOOL       (enum: 1)
(o)     pf          DMBOOL       (enum: 1)
(p)     attndnt     DMBOOL       (enum: 1)
```

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```
    dnfltr      DMMCDNFLTR   (struct)
(q)     all_pass    DMBOOL       (enum: 1)
(r)     optn_a      DMBOOL       (enum: 1)
(s)     optn_b      DMBOOL       (enum: 1)
(t)     optn_c      DMBOOL       (enum: 1)
(u)     optn_d      DMBOOL       (enum: 1)
(v)     optn_e      DMBOOL       (enum: 1)
(w)     optn_f      DMBOOL       (enum: 1)
(x)     optn_g      DMBOOL       (enum: 1)
(y)     optn_h      DMBOOL       (enum: 1)
(z)     optn_i      DMBOOL       (enum: 1)
(A)     optn_j      DMBOOL       (enum: 1)
(B)     optn_k      DMBOOL       (enum: 1)
(C)     optn_l      DMBOOL       (enum: 1)
(D)     optn_m      DMBOOL       (enum: 1)
(E)     optn_n      DMBOOL       (enum: 1)
(F)     optn_o      DMBOOL       (enum: 1)
(G)     optn_p      DMBOOL       (enum: 1)
(H)     optn_q      DMBOOL       (enum: 1)
(I)     optn_18     DMBOOL       (enum: 1)
(J)     optn_19     DMBOOL       (enum: 1)
(K)     optn_20     DMBOOL       (enum: 1)
(L)     optn_21     DMBOOL       (enum: 1)
(M)     optn_22     DMBOOL       (enum: 1)
(N)     optn_23     DMBOOL       (enum: 1)
(O)     optn_24     DMBOOL       (enum: 1)
(P)     optn_25     DMBOOL       (enum: 1)
(Q)     optn_26     DMBOOL       (enum: 1)
(R)     optn_27     DMBOOL       (enum: 1)
(S)     optn_28     DMBOOL       (enum: 1)
(T)     optn_29     DMBOOL       (enum: 1)
(U)     optn_30     DMBOOL       (enum: 1)
(V)     optn_31     DMBOOL       (enum: 1)
          Stored Tuple Layout    CF_CF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |       |     | |   | | | | | | | |                               |
 0 |   a   |actvn|b| c |d|e|f|g|h|i|j|k|*****************************|
   |===============+========== call_fltr ==========+===============|
   | | | | | |                                                     |
 4 |l|m|n|o|p|*****************************************************|
   |===============+===========  dnfltr ===========+===============|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 8 |q|r|s|t|u|v|w|x|y|z|A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|
   |===============+===============+===============+===============|
      ( 12 bytes )
```

## 4. Population rules for RLcf_cf

**Relation Description**

Call Forwarding Constructed Feature.

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Call forwarding constructed features in modular feature customization capability (MFC).

"One RLcf_cf tuple must exist for each Constructed/PreConstructed Call Forward Feature."

**Attribute:**
feat_id
**Fullname:**
Constructed feature identification.
**Attribute Description:**
Call forwarding constructed feature identification.

**Attribute:**
fwd_cndtn
**Fullname:**
Conditions for forwarding.
**Attribute Description:**
Conditions for forwarding.

**Attribute:**
call_fltr
**Fullname:**
Incoming call filter.
**Attribute Description:**
Incoming call screening filter for forwarding.

**Attribute:**
call_fltr.intratg
**Fullname:**
Intra-terminal group.
**Attribute Description:**
Intra-terminal group.

**Attribute:**
call_fltr.intraoff
**Fullname:**
Intra-office.
**Attribute Description:**
Intra-office.

**Attribute:**
call_fltr.interoff
**Fullname:**
Inter-office.
**Attribute Description:**
Inter-office.

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**Attribute:**
call_fltr.pf
**Fullname:**
Private facility.
**Attribute Description:**
Private facility.

**Attribute:**
call_fltr.attndnt
**Fullname:**
Attendant.
**Attribute Description:**
Attendant.

**Attribute:**
cfpf_alwd
**Fullname:**
Call Forwarding over Private Facilities (CFPF).
**Attribute Description:**
This is the call forwarding over private facilities (CFPF) indicator that designates if the forwarded call can be over private facilities.

**Attribute:**
actvn
**Fullname:**
Method of activating.
**Attribute Description:**
Indicates method of activating MFC features

If the attribute fwd_cndtn for this tuple is set to CFN_PPBUSY, CFN_PPIDLE, or CFN_ACDQIDL, then this value must be set to ACTNONE.

If the attribute fwd_cndtn for this tuple is set to CFN_DBUSY,CFN_DIDLE,or CFN_DBSYIDL, then this value must be set to ACTNONE, ACTCD, or ACTCD_DN.

| Enum. value | Dependency |
|---|---|
| ACTNONE | 1) RLcf_cf.dctvn = DCTNONE or DCTCD<br>2) At feature assignment time, fwd_dn must be assigned and not null. |
| ACTCD | 1) RLcf_cf.dctvn = DCTCD or DCTAUTO<br>*** ODA ONLY WARNING ***<br>*** (NOT SUPPORTED BY RC) ***<br>2) Verify tuple exists in dial tree RLdaprlfnl or RLidp_dtre with 'action' attribute = ACN_FTACT or attribute = ACN_DBDACT |

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```
                    or attribute = ACN_CFVACT
                    for the dial code.
                    3) At feature assignment time, if no
                    fwd_dn is given, chg_fwdn must be
                    DBYES.
        ACTCD_DN    1) RLcf_cf.dctvn = DCTCD or DCTAUTO
                              *** ODA ONLY WARNING ***
                              *** (NOT SUPPORTED BY RC) ***
                    2) Verify tuple exists in dial tree
                       RLdaprlfnl or RLidp_dtre with
                       'action' attribute = ACN_FTACT
                       or attribute = ACN_DBDACT
                       or attribute = ACN_CFVACT
                       for the dial code.
        ACTCDDNC    1) RLcf_cf.dctvn = DCTCD
                              *** ODA ONLY WARNING ***
                              *** (NOT SUPPORTED BY RC) ***
        ACTCDNCA    2) Verify tuple exists in dial tree
        or              RLdaprlfnl or RLidp_dtre with
        ACTCDN1A        'action' attribute = ACN_FTACT
                        or attribute = ACN_CFVACT
                        for the dial code.
        ACTSCAN     1) RLcf_cf.dctvn = DCTSCAN
                    2) At feature assignment time, the
                        fwd_dn must be assigned and not null.
                    3) Using the feat_id from this relation
                        as the key into RLfacftdsc verify that
                        RLfacftdsc.selcrit = CF_NS
```

**Attribute:**

dnfltr

**Fullname:**

DN filter (screening) for call forwarding activation.

**Attribute Description:**

32_boolean structure, each bit representing a certain filtering criterion for adding/changing numbers in the forward to DN numbers.

**Attribute:**

dnfltr.all_pass

**Fullname:**

All pass.

**Attribute Description:**

if all_pass=DBYES then all other group members equal DBYES,
if all_pass=DBNO  then one or more member equal DBNO.

**Attribute:**

dnfltr.optn_a

**Fullname:**

option a.

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**Attribute Description:**
Call between members of the same terminal group.

**Attribute:**
dnfltr.optn_b
**Fullname:**
option b.
**Attribute Description:**
An intraoffice call that is not an intragroup.

**Attribute:**
dnfltr.optn_c
**Fullname:**
option c.
**Attribute Description:**
An intradistrict call that is not an intragroup or interoffice call. This option basically allows interoffice 7 and 10 digit calls which may or may not have a 1+ prefix.

**Attribute:**
dnfltr.optn_d
**Fullname:**
option d.
**Attribute Description:**
An interdistrict call, that is, one which requires the dialing of a Feature Group D Carrier Access Code or one which uses presubscribed carrier.

**Attribute:**
dnfltr.optn_e
**Fullname:**
option e.
**Attribute Description:**
An international call, that is, one which requires the dialing of an international prefix (011+) followed by country code and telephone number.

**Attribute:**
dnfltr.optn_f
**Fullname:**
option f.
**Attribute Description:**
An X11 type of call for example 411, 911 etc.

**Attribute:**
dnfltr.optn_g

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**Fullname:**
option g.
**Attribute Description:**
A call to the POTS (Plain Old Telephone Service) operator 0 or in combination with option d a 0+7/10 digit intradistrict call, or in combination with option e an internatiol operator (010) or a international operator assisted call 01+.

**Attribute:**
dnfltr.optn_h
**Fullname:**
option h.
**Attribute Description:**
A POTS (Plain Old Telephone Service) feature code (*XX or *XXX) with or without subsequent parameters. When the feature code requires parameters , the system will perform no screening on the subsequent parameters.

**Attribute:**
dnfltr.optn_i
**Fullname:**
option i.
**Attribute Description:**
An IDP intercom nuber. When the system recognize that an IDP intercom number is involved the system should perform the digit deletion an d prefixing functions associated with the intercom function and then determine if that resulting number satisfies some other option selected in the same capability.

**Attribute:**
dnfltr.optn_j
**Fullname:**
option j.
**Attribute Description:**
An IDP Abbreviated Dial Code. When the system recognize an IDP abbreviated dial code the dialed number, the stored number is retrieved, and that retrieved number is checked to see if it satisfies some other option that has been selected in this screening capability.

**Attribute:**
dnfltr.optn_k
**Fullname:**
option k.
**Attribute Description:**
This option is checked by Time Of Day (TOD) during the entry of a speed call list entry and during the activation of call forwarding over Private Facilities (CFPF) and if yes, it allows the user to dial a private facility access code for a

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non-senderized (cut-through) facility.

**Attribute:**
dnfltr.optn_l
**Fullname:**
option l.
**Attribute Description:**
This option is checked by TOD during the entry of a speed call list entry and during the activation of call forwarding over private facility access code (CFPF) and if yes, it allows the user to dial a private access code for senderized facility.

**Attribute:**
dnfltr.optn_m
**Fullname:**
option m.
**Attribute Description:**
An IDP POTS access code. This opyion allow an IDP POTS access code followed by digits that will be screened by other opyions of this capability ( excluding options i, j, k, l, n, o, p, or q).

**Attribute:**
dnfltr.optn_n
**Fullname:**
option n.
**Attribute Description:**
An IDP Feature Group D Carrier Access Code. This code requires a parameter that must conform to the selected screening options.

**Attribute:**
dnfltr.optn_o
**Fullname:**
option o.
**Attribute Description:**
This option is checked by TOD during the entry of a speed call list entry and during activation of call forwarding over private facility and if yes allows the user to dial an Automatic Route Selection (ARS) access code.

**Attribute:**
dnfltr.optn_p
**Fullname:**
option p.
**Attribute Description:**
A PP prcedence code. This code is used for storing customer changeable abbreviated dialing numbers.

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**Attribute:**
dnfltr.optn_q
**Fullname:**
option q.
**Attribute Description:**
A PP AUTOVON cf number. This opyion is used with customer changeable call forwarding features. if set to DBYES then the forward-to-dn number must be to a port that can recieve AUTOVON calls. Also option_a must be set to DBYES.

**Attribute:**
dnfltr.optn_18
**Fullname:**
option 18.
**Attribute Description:**
Option 18-31 are don't care set to DBYES.

**Attribute:**
dnfltr.optn_19
**Fullname:**
option 19.
**Attribute Description:**
option 19, set to DBYES.

**Attribute:**
dnfltr.optn_20
**Fullname:**
option 20.
**Attribute Description:**
option 20, set to DBYES.

**Attribute:**
dnfltr.optn_21
**Fullname:**
option 21.
**Attribute Description:**
option 21, set to DBYES.

**Attribute:**
dnfltr.optn_22
**Fullname:**
option 22.
**Attribute Description:**
option 22, set to DBYES.

**Attribute:**
dnfltr.optn_23

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**Fullname:**
option 23.
**Attribute Description:**
option 23, set to DBYES.

**Attribute:**
dnfltr.optn_24
**Fullname:**
option 24.
**Attribute Description:**
option 24, set to DBYES.

**Attribute:**
dnfltr.optn_25
**Fullname:**
option 25.
**Attribute Description:**
option 25, set to DBYES.

**Attribute:**
dnfltr.optn_26
**Fullname:**
option 26.
**Attribute Description:**
option 26, set to DBYES.

**Attribute:**
dnfltr.optn_27
**Fullname:**
option 27.
**Attribute Description:**
option 27, set to DBYES.

**Attribute:**
dnfltr.optn_28
**Fullname:**
option 28.
**Attribute Description:**
option 28, set to DBYES.

**Attribute:**
dnfltr.optn_29
**Fullname:**
option 29.
**Attribute Description:**
option 29, set to DBYES.

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**Attribute:**
dnfltr.optn_30
**Fullname:**
option 30.
**Attribute Description:**
option 30, set to DBYES.

**Attribute:**
dnfltr.optn_31
**Fullname:**
option 31.
**Attribute Description:**
option 31, set to DBYES.

**Attribute:**
dctvn
**Fullname:**
Deactivate.
**Attribute Description:**
Indicates method of deactivating MFC feature.

If the attribute fwd_cndtn for this tuple is set to CFN_PPBUSY, CFN_PPIDLE, or CFN_ACDQIDL, then this value must be set to DCTNONE.

| Enum. value | Dependency |
|---|---|
| DCTNONE | 1) RLcf_cf.actvn = ACTNONE |
| DCTAUTO | 1) RLcf_cf.actvn = ACTCD or ACTCD_DN |
| DCTCD | 1) RLcf_cf.actvn = ACTCD,ACTCD_DN, ACTCDNC,ACTCDDNCA,ACTNONE or |
| ACTCDN1A | *** ODA ONLY WARNING *** *** (NOT SUPPORTED BY RC) *** 1) Verify tuple exists in dial tree RLdaprlfnl or RLidp_dtre with 'action' attribute = ACN_FTDCT or attribute = ACN_CFVDCT for 'action' attribute = ACN_DBDDCT for the given dial code. |
| DCTSCAN | 1) RLcf_cf.actvn = ACTSCAN 2) Using the feat_id from this relation as the key into RLfacftdsc verify that RLfacftdsc.selcrit = CF_NS |

**Attribute:**
chg_datim
**Fullname:**
change for don't answer timing allowed.
**Attribute Description:**
Indicates if customer can change don't answer time.

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**Attribute:**
chg_fwdn
**Fullname:**
Change forward number .
**Attribute Description:**
Indicates if customer can change the forward to directory number.

**Attribute:**
cs_alwd
**Fullname:**
Call Screening Allowed.
**Attribute Description:**
Indicates if Call Screening is allowed.

**Attribute:**
ffcf1
**Fullname:**
Future field feature.
**Attribute Description:**
Boolean reserved for future field feature.

**Attribute:**
cfdarc
**Fullname:**
Call Forward Don't Answer - Ring Control
**Attribute Description:**
When this attribute is set to DBYES, this [pre]constructed feature has CFDA-RC option active. In order for this attribute be DBYES secured feature 335 has to be active.

**Attribute:**
ffcf2
**Fullname:**
Future field feature 2.
**Attribute Description:**
Boolean reserved for future field feature.

**Attribute:**
ffcf3
**Fullname:**
Future field feature 3.
**Attribute Description:**
Boolean reserved for future field feature.

**Attribute:**

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ffcf4

**Fullname:**

Future field feature.

**Attribute Description:**

Boolean reserved for future field feature.

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# CF_LDN

## 1. Description

Contains call forwarding information for listed directory numbers (LDN)s of a multiline hunt group (MLHG).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 1024 |
| data page size | 512 |
| page level | 0 |
| storage type | DBORIGLEN |
| corcable | DBYES |
| foldtype | DBDEFAULT |

## 3. Field Layout

```
CF_LDN      relid = 1225  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     grpnum      DMGRUPNM     (ushort: 11)     <--- key
     sub_grp     DMUNS4       (ushort: 4)     <--- key
 (a) ffcf1       DMBOOL       (enum: 1)
     lead_module  DMMODULE     (ushort: 8)
     ir_sim_act  DMCFSIM      (ushort: 7)
 (b) cf_active   DMBOOL       (enum: 1)
     ia_sim_act  DMCFSIM      (ushort: 7)
     seq_act     DMCFSEQ      (ushort: 6)
 (c) ffcf2       DMBOOL       (enum: 1)
 (d) ffcf3       DMBOOL       (enum: 1)
 (e) ffcf4       DMBOOL       (enum: 1)
     fwd_dn      DMEDN32      (struct)
         dcnt32      DMDCNT32     (ushort: 6)
         edn32       DMEDIGSTR    (array [ 32 ] of char )
         User, Compacted and Stored Tuple Layout CF_LDN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |       | |               |             | |
  0 |        grpnum         |sub_grp|a|  lead_module  |  ir_sim_act |b|
    |---------------+---------------+---------------+---------------|
    |               |           | | | |                             |
  4 |  ia_sim_act   |  seq_act  |c|d|e|*****************************|
    |===============+===========  fwd_dn ===========+===============|
    |           |                                                   |
  8 |   dcnt32  |***************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                            edn32                              |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 16 |                            edn32                              |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
```

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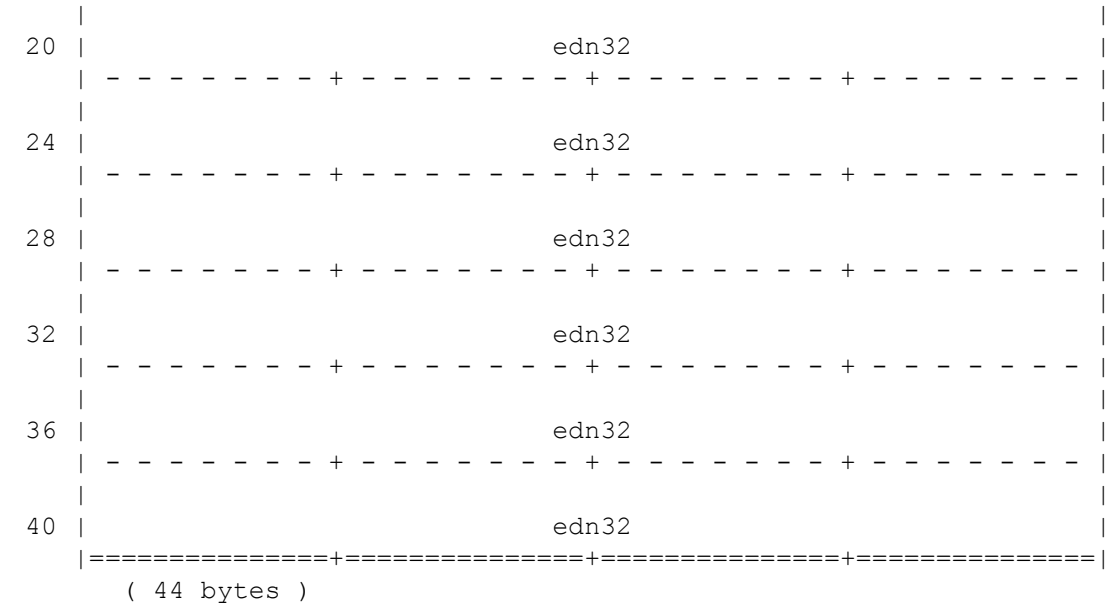


## 4. Population Rules for RLcf_ldn

**Relation Description** Call forwarding for listed directory numbers. This relation contains information needed for call forwarding of listed directory numbers of a multi position hunt group or ISDN attendant hunt group. This is a corcable relation.

**Attribute: grpnum**

**Fullname:** Multiline Hunt Group Number
**Attribute Description** Contains the number of the MLHG that this LDN belongs to.

**Attribute: sub_grp**

**Fullname:** MLHG Subgroup Number
**Attribute Description** Contains the subgroup number of an LDN in a MLHG. In multiple position hunt groups this number may be 1 - 6, in ISDN Attendant groups this number may be 0 - 7. Database population clarification: if the sub_grp attribute is 0 for ISAT hunt groups or 1 for MUPH hunt groups and a CFV feature is assigned and the cf_active attribute is DBYES, then this sub_grp's CFV feature is in effect for the entire group. This can be overridden by each individual sub_grp forwarding to their own unique destination.

**Attribute: cf_active**

**Fullname:** Call Forwarding Active Bit
**Attribute Description** Used to see if call forwarding is active for this LDN. Database population clarification: If the sub_grp attribute is 0 for ISAT hunt groups or 1 for MUPH hunt groups and a CFV feature is assigned and the cf_active attribute is DBYES, then this sub_grp's CFV feature is in effect for the entire group. This can be overridden by each individual sub_grp forwarding to their own unique destination. This is a corcable attribute.

**Attribute: fwd_dn**

**Fullname:** Forward to Directory Number
**Attribute Description** Used to store forward to DN for this LDN. This is a corcable attribute.

**Attribute: fwd_dn.dcnt32**

**Fullname:** Digit Count of the Forwarding Number
**Attribute Description** Store the count of the forwarding number.

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**Attribute: fwd_dn.edn32**

**Fullname:** Forwarding Telephone Number
**Attribute Description** Store the forwarding telephone number.

**Attribute: lead_module**

**Fullname:** Lead Module of the Main Member of the MLHG
**Attribute Description** Used to store the number of the module of the lead member of the MLHG.

**Attribute: ir_sim_act**

**Fullname:** Interoffice Simultaneously Active Forwards
**Attribute Description** Used to store the maximum number of simultaneously active inter-office call forwards between base station and forward-to DN.

**Attribute: ia_sim_act**

**Fullname:** Intraoffice Simultaneously Active Forwards
**Attribute Description** Used to store maximum number of simultaneously active intra-office call forwards between base station and forward-to DN

**Attribute: seq_act**

**Fullname:** Sequentially Active Call Forwards
**Attribute Description** Used to store the maximum number of call forwarding legs allowed to be call forwarded.

**Attribute: ffcf1**

**Fullname:** Future Field 1
**Attribute Description** Future field feature use.

**Attribute: ffcf2**

**Fullname:** Future Field 2
**Attribute Description** Future field feature use.

**Attribute: ffcf3**

**Fullname:** Future Field 3
**Attribute Description** Future field feature use.

**Attribute: ffcf4**

**Fullname:** Future Field 4
**Attribute Description** Future field feature use.

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# CF_LTM

## 1. Description

This relation contains the call forward feature parameters on this logical termination port.

This is a virtual relation. The tree diagram Figure 1 depicts the stored structure of virtual relation CF_LTM.

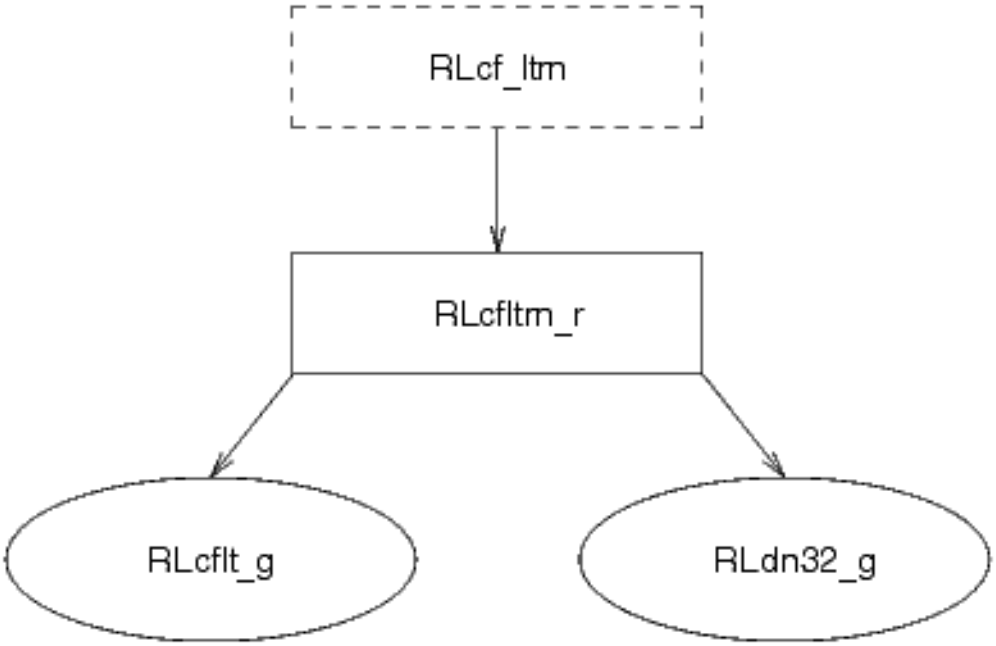


**Figure 1 Virtual Relation CF_LTM**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FG |
| relation type | DBSTATIC |
| corcable | DBYES |
| trigger function | FCtrcfltm |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
CF_LTM      relid = 911   DBSTATIC   DBACC_OPV   DBNOTODD  FG      NULL


    annc_ri     DMRTEIDX     (ushort: 14)
(a) mdnl_opt    DMMDNL_OPT   (enum: 2)
    ia_sim_act  DMCFSIM      (ushort: 8)
    ir_sim_act  DMCFSIM      (ushort: 8)
    dont_ans_t  DMUNS8       (ushort: 8)
    seq_act     DMCFSEQ      (ushort: 6)
(b) mdnl_rcf    DMMDNL_OPT   (enum: 2)
(c) bs_rg_ind   DMBOOL       (enum: 1)
(d) cfpf_digs   DMBOOL       (enum: 1)
```

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```
(e) ffcf1       DMBOOL       (enum: 1)
(f) ffcf2       DMBOOL       (enum: 1)
(g) ffcf3       DMBOOL       (enum: 1)
(h) ffcf4       DMBOOL       (enum: 1)
(i) cfpf_codes  DMBOOL       (enum: 1)
(j) mdnl_enhan  DMBOOL       (enum: 1)
(k) mdnl_emsi   DMBOOL       (enum: 1)
(l) cfda_cw     DMBOOL       (enum: 1)
(m) cfimb       DMBOOL       (enum: 1)
(n) cfilb       DMBOOL       (enum: 1)
(o) cs_alwd     DMBOOL       (enum: 1)
(p) ovfcfi      DMBOOL       (enum: 1)
(q) cfdarc      DMBOOL       (enum: 1)
(r) ltm_type    DMLTM_TYPE   (enum: 1) <--- key
    ltm_idx     DMLTM_IDX    (ulong: 16)       <--- key
    feat_id     DMFID        (ushort: 10)      <--- key
    lead_module  DMMODULE     (ushort: 8)      <--- key
    fwd_dn      DMEDN32      (struct)  <--- compacted
        dcnt32      DMDCNT32     (ushort: 6)
        edn32       DMEDIGSTR    (array [ 32 ] of char )
           User Tuple Layout    CF_LTM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |   |               |               |
 0 |          annc_ri              | a |   ia_sim_act  |   ir_sim_act  |
   |---------------+---------------+---------------+---------------|
   |               |               |   | | | | | | | | | | | | | | | |
 4 |   dont_ans_t  |  seq_act      | b |c|d|e|f|g|h|i|j|k|l|m|n|o|p|q|r|
   |---------------+---------------+---------------+---------------|
   |                               |                   |           |
 8 |            ltm_idx            |      feat_id      |***********|
   |---------------+---------------+---------------+---------------|
   |               |                                               |
12 |  lead_module  |***********************************************|
   |===============+===========  fwd_dn ===========+===============|
   |           |                                                   |
16 |   dcnt32  |***********************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |                             edn32                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
24 |                             edn32                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
28 |                             edn32                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
32 |                             edn32                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
36 |                             edn32                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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```
   |                                                                |
40 |                            edn32                               |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                                |
44 |                            edn32                               |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                                |
48 |                            edn32                               |
   |================+================+================+================|
      ( 52 bytes )
```

```
    annc_ri     DMRTEIDX     (ushort: 14)
(a) mdnl_opt    DMMDNL_OPT   (enum: 2)
    ia_sim_act  DMCFSIM      (ushort: 8)
    ir_sim_act  DMCFSIM      (ushort: 8)
    dont_ans_t  DMUNS8       (ushort: 8)
    seq_act     DMCFSEQ      (ushort: 6)
(b) mdnl_rcf    DMMDNL_OPT   (enum: 2)
(c) bs_rg_ind   DMBOOL       (enum: 1)
(d) cfpf_digs   DMBOOL       (enum: 1)
(e) ffcf1       DMBOOL       (enum: 1)
(f) ffcf2       DMBOOL       (enum: 1)
(g) ffcf3       DMBOOL       (enum: 1)
(h) ffcf4       DMBOOL       (enum: 1)
(i) cfpf_codes  DMBOOL       (enum: 1)
(j) mdnl_enhan  DMBOOL       (enum: 1)
(k) mdnl_emsi   DMBOOL       (enum: 1)
(l) cfda_cw     DMBOOL       (enum: 1)
(m) cfimb       DMBOOL       (enum: 1)
(n) cfilb       DMBOOL       (enum: 1)
(o) cs_alwd     DMBOOL       (enum: 1)
(p) ovfcfi      DMBOOL       (enum: 1)
(q) cfdarc      DMBOOL       (enum: 1)
(r) ltm_type    DMLTM_TYPE   (enum: 1) <--- key
    ltm_idx     DMLTM_IDX    (ulong: 16)       <--- key
    feat_id     DMFID        (ushort: 10)      <--- key
    lead_module  DMMODULE     (ushort: 8)      <--- key
    fwd_dn      DMCEDN32     (struct)  <--- compacted
        digcnt      DMDCNT32     (ushort: 6)
        edn32a      DMBCD8       (ulong)
        edn32b      DMBCD8       (ulong)
        edn32c      DMBCD8       (ulong)
        edn32d      DMBCD8       (ulong)
```

Compacted Tuple Layout CF_LTM

```
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |   |               |               |
 0 |          annc_ri              | a |   ia_sim_act  |   ir_sim_act  |
   |---------------+---------------+---------------+---------------|
   |               |               |   | | | | | | | | | | | | | | | |
 4 |   dont_ans_t  |  seq_act      | b |c|d|e|f|g|h|i|j|k|l|m|n|o|p|q|r|
   |---------------+---------------+---------------+---------------|
```

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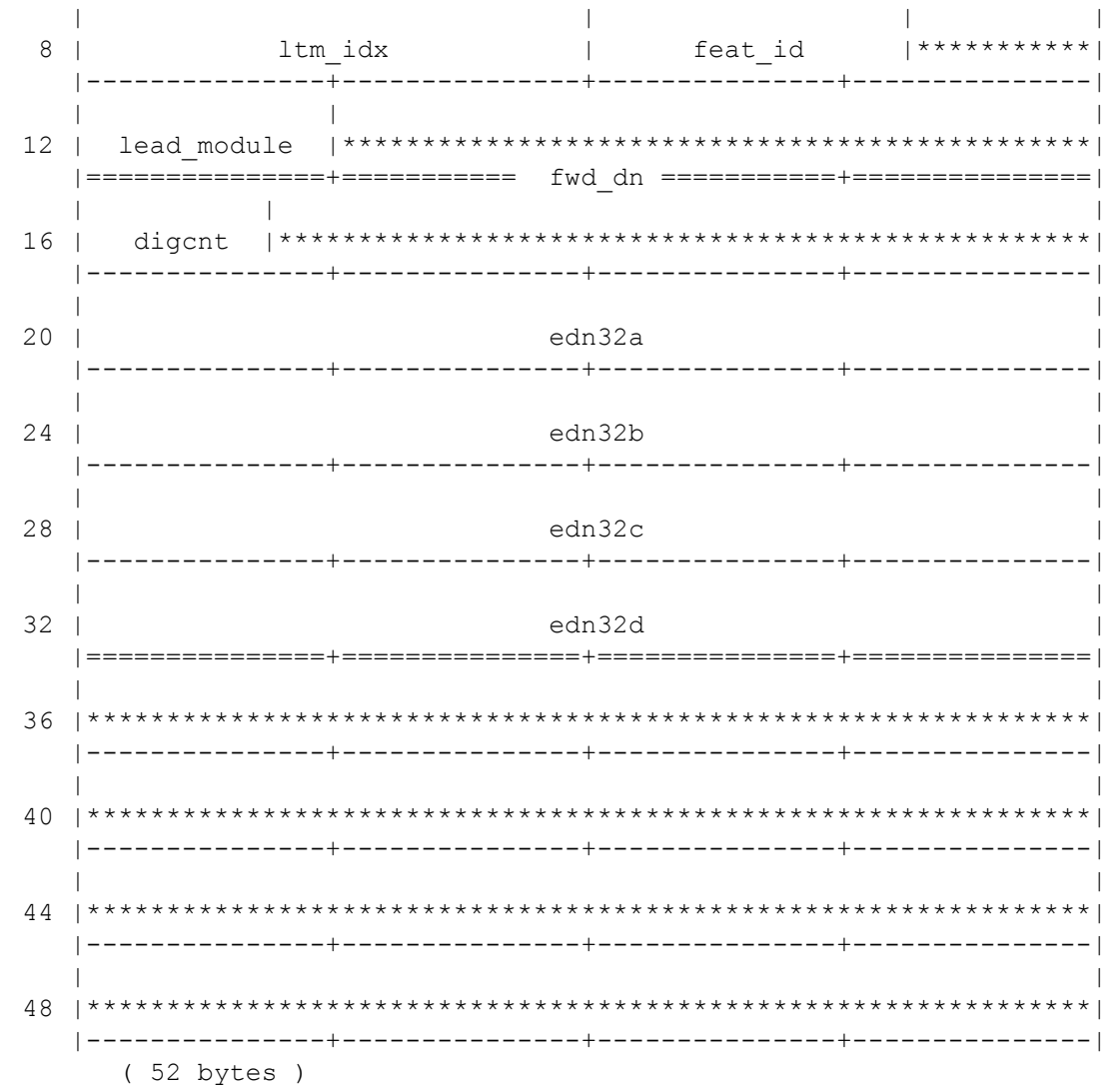


```
    annc_ri     DMRTEIDX     (ushort: 14)
(a) mdnl_opt    DMMDNL_OPT   (enum: 2)
    ia_sim_act  DMCFSIM      (ushort: 8)
    ir_sim_act  DMCFSIM      (ushort: 8)
    dont_ans_t  DMUNS8       (ushort: 8)
    seq_act     DMCFSEQ      (ushort: 6)
(b) mdnl_rcf    DMMDNL_OPT   (enum: 2)
(c) bs_rg_ind   DMBOOL       (enum: 1)
(d) cfpf_digs   DMBOOL       (enum: 1)
(e) ffcf1       DMBOOL       (enum: 1)
(f) ffcf2       DMBOOL       (enum: 1)
(g) ffcf3       DMBOOL       (enum: 1)
(h) ffcf4       DMBOOL       (enum: 1)
(i) cfpf_codes  DMBOOL       (enum: 1)
(j) mdnl_enhan  DMBOOL       (enum: 1)
(k) mdnl_emsi   DMBOOL       (enum: 1)
(l) cfda_cw     DMBOOL       (enum: 1)
(m) cfimb       DMBOOL       (enum: 1)
```

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```
(n) cfilb       DMBOOL       (enum: 1)
(o) cs_alwd     DMBOOL       (enum: 1)
(p) ovfcfi      DMBOOL       (enum: 1)
(q) cfdarc      DMBOOL       (enum: 1)
(r) ltm_type    DMLTM_TYPE   (enum: 1) <--- key
    ltm_idx     DMLTM_IDX    (ulong: 16)       <--- key
    feat_id     DMFID        (ushort: 10)      <--- key
    lead_module  DMMODULE     (ushort: 8)      <--- key
    fwd_dn      DMCEDN32     (struct)  <--- compacted
        digcnt      DMDCNT32     (ushort: 6)
        edn32a      DMBCD8       (ulong)
        edn32b      DMBCD8       (ulong)
        edn32c      DMBCD8       (ulong)
        edn32d      DMBCD8       (ulong)
          Stored Tuple Layout   CF_LTM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |   |               |               |
 0 |          annc_ri              | a |   ia_sim_act  |   ir_sim_act  |
   |---------------+---------------+---------------+---------------|
   |               |               |   | | | | | | | | | | | | | | | |
 4 |   dont_ans_t  |  seq_act      | b |c|d|e|f|g|h|i|j|k|l|m|n|o|p|q|r|
   |---------------+---------------+---------------+---------------|
   |                               |                   |           |
 8 |            ltm_idx            |      feat_id      |***********|
   |---------------+---------------+---------------+---------------|
   |               |                                               |
12 |  lead_module  |***********************************************|
   |===============+===========  fwd_dn ===========+===============|
   |           |                                                   |
16 |   digcnt  |***********************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |                             edn32a                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
24 |                             edn32b                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
28 |                             edn32c                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
32 |                             edn32d                            |
   |===============+===============+===============+===============|
     ( 36 bytes )
```

## 4. Population rules for RLcf_ltm

**Relation Description**

call forwarding logical termination port.

call forward feature line parameters on this logical

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termination port

"The following is a list of valid service classes
for ports assigned this feature:

| LINES |
|---|
| FC_INDVDL |
| FC_ATTENDANT |
| FC_SATSTLN |
| FC_4WIRE_INDV |
| FC_PBX |
| FC_ISDN |
| FC_ISATND |

SPECIAL ENTRY FOR BFG
---

For BFG purposes, CFW feature parameter type is LINE.
Therefore, BFG Pseudo port tuples will not be created for
the port assigned to a BFG. Only individual port tuples
are created for BFG assigned ports.

SPECIAL CHECK FOR CIRCUIT SWITCHED DATA(CSD)
...

CSD Call Forwarding features can only be assigned to lines
with servclass=FC_ISDN.

To distinguish between CSV and CSD Call Forwarding features
refer to RLcf_opts and RLcf_cf for detail presconstructed
Call Forwarding features.

SPECIAL CHECK FOR ACD/BRCS
...

The Call Forwarding Don't Answer Return to Queue feature
can only be assigned to ACD/BRCS position primary DNs."

**Attribute:**
lead_module
**Fullname:**
lead module.
**Attribute Description:**
lead_module.

**Attribute:**
ltm_type
**Fullname:**
Logical Termination index type.

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**Attribute Description:**
Logical Termination index type.

**Attribute:**
ltm_idx
**Fullname:**
Logical Termination Index.
**Attribute Description:**
Logical Termination index.

**Attribute:**
feat_id
**Fullname:**
feature id.
**Attribute Description:**
Call Forwarding constructed feature id.

1) Verify existence of tuple in RLdn_feats with same key (lead_module, ltm_type, ltm_idx). The RLdn_feats tuple must have an attribute, fid such that (mftype of MFCFW + RLcf_ltm.feat_id) = RLdn_feats.ftent[n].fid. See explanation following 2).

2) Verify existence of tuple in RLcf_cf with mftype of MFCFW + RLcf_ltm.feat_id as key value. See explanation following 2).

   NOTE: MFCFW is defined in db/DMmftype.G. Adding mftype to feat_id before reading RLdn_feats or RLcf_cf is necessary because the feat_id in this relation is the unique 10 bits of the FID, it does not include the mftype. Whereas, RLdn_feats and RLcf_cf store the entire FID (mftype + 10 unique bits).

**Attribute:**
fwd_dn
**Fullname:**
forward directory number.
**Attribute Description:**
stored dn to forward incoming calls to (32 digits max). Range of values: All valid DN's.
For CFPF, the DN may include PFA or ARS, ACCT and ATH use codes. For non-collocated case, the fwd_dn may also contain ATH and/or ACCT codes, but for collocated case, ATH and/or ACCT codes are stored in RLcfpf_ltm.

Warning: It is suggested that the fwd_dn not contain a dn which will be toll diverted. The calling party will not know why the

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toll diversion has occurred, and if the attendant is the recipient of the toll diverted call, the attendant may not know how the call could have been routed there.

For call forwarding features with CFN_ACDQIDL forwarding conditions, fwd_dn must be null.

**Attribute:**
fwd_dn.dcnt32
**Fullname:**
digit count.
**Attribute Description:**
digit count.

**Attribute:**
fwd_dn.edn32
**Fullname:**
forward-to DN digits.
**Attribute Description:**
forward-to DN digits.

**Attribute:**
ia_sim_act
**Fullname:**
simultaneously active intra-office calls.
**Attribute Description:**
Maximum number of simultaneously active intra-office calls allowed between base station and forward to DN.

Call forwarding features with the CFN_ACDQIDL forwarding condition can have only 1 simultaneously active intra-office call, based on the Automatic Call Distribution algorithm. Therefore, this attribute will be restricted to the value 1.

**Attribute:**
ir_sim_act
**Fullname:**
simultaneously active inter-office calls.
**Attribute Description:**
Maximum number of simultaneously active inter-office calls allowed between base station and forward to DN.

This attribute does not apply to calls forwarded because of a CFN_ACDQIDL forwarding condition.
Therefore, this attribute will be restricted to the value 1.

**Attribute:**

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seq_act

**Fullname:**

sequential forwarding.

**Attribute Description:**

Maximum number of call forwarding legs allowed to be sequentially forwarded.

Calls forwarded because of a CFN_ACDQIDL forwarding condition are not subject to the restriction specified by this attribute. Therefore, this attribute will be restricted to the value 1.

**Attribute:**

dont_ans_t

**Fullname:**

Do not answer time.

**Attribute Description:**

Don't answer time (in seconds) before a call should be forwarded.

If cf_opts.fwd_cndtn is CFN_IDLE, CFN_DIDLE, CFN_PPIDLE, CFN_PRCI or CFN_ACDQIDL then the range of valid values are from 4 to 60. If CFDA-Ring Control SFID is active (SFID 335), and CFDA-RC is active on this line (either OFID 737 or Line Option is active), then dont_ans_t can also be value of 0.

If cf_opts.fwd_cndtn is CFN_IDLE, CFN_DIDLE, CFN_PPIDLE or CFN_PRCI then dont_ans_t default value should be 30.
If cf_opts.fwd_cndtn
is CFN_ACDQIDL, the dont_ans_t default value should be 18.

Dependencies: If cf_opts.fwd_cndtn is CFN_BUSY, CFN_DBUSY, CFN_PPBUSY, CFN_PRCB, CFN_BSYIDL, CFN_DBSYIDL or CFN_PRCV, then dont_ans_t should be zero.

**Attribute:**

bs_rg_ind

**Fullname:**

base station ringing indicator.

**Attribute Description:**

Base station ringing indicator. DBYES ring reminder is given; DBNO no ring reminder.

For call forwarding features with the CFN_ACDQIDL forwarding condition, the base station ring indicator must be DBNO.

**Attribute:**

cfpf_digs

**Fullname:**

Call Forwarding over Private Facilities (CFPF) digits.

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**Attribute Description:**

this attribute indicates whether or not the digits stored in the forward to dn buffer (fwd_dn) may invoke ARS, PFA, ACCT, or ATH for Call Forwarding over Private Facilities (CFPF).

DBYES ( the digits may contain an ARS, PFA, ACCT, or ATH use code )
DBNO ( the digits do not contain an ARS, PFA, ACCT, or ATH use code )

If DBYES, this implies that a tuple exists in RLcf_cf with:
1 ) RLcf_cf.feat_id equal ((DMmftype.MFCFW << 10) + feat_id)
2 ) RLcf_cf.cfpf_alwd equal DBYES

When a CF feature is assigned to a line, RLcf_ltm.cfpf_digs must be initialized with the contents of RLcf_opts.cfpf_alwd.

If RLcf_ltm.fwd_dn is changed during an update, RLcf_ltm.cfpf_digs must be updated with the contents of cfpf_alwd.

**Attribute:**

ffcf[*]

**Fullname:**

future field.

**Attribute Description:**

Future field feature use.

**Attribute:**

cfpf_codes

**Fullname:**

Call Forwarding over Private Facilities codes.

**Attribute Description:**

This attribute indicates whether or not a corresponding tuple in RLcfpf_ltm contains an authorization and/or account code.

DBYES ( RLcfpf_ltm is populated with an ATH and/or ACCT code. )
DBNO ( RLcfpf_ltm is not populated with an ATH and/or ACCT code. )

if DBYES, this implies:
1) cfpf_digs is DBYES
2) tuple(s) with the same keys exists in cfpf_ltm (that is, group partitioned)
3) If RLcfpf_ltm.auth_code.digcnt is

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```
           greater than zero then an AUTH feature
           must be assigned to this line in
           RLtrmfeats or the BFG RLtrmfeats
           assigned to this line.
        4) If RLcfpf_ltm.acct_code.digcnt is
           greater than zero then an ACCT feature
           must be assigned to this line in
           RLtrmfeats or the BFG RLtrmfeats
           assigned to this line.

        When a CF feature is assigned to a line,
        if the value for acct_code or auth_code
        in RLcf_opts is > 0, cfpf_codes must be
        DBYES.

        When RLcfpf_ltm.acct_code or RLcfpf_ltm.
        auth_code is updated to a length greater
        than 0, RLcf_ltm.cfpf_codes must be DBYES.
```

**Attribute:**

annc_ri

**Fullname:**

Announcement route index.

**Attribute Description:**

Indicates the announcement route index for CFPF. The CFPF announcement is applied to the base station when a call is forwarded due to theCFPF feature.
NOTE: the ability to use announcements has not been implemented yet. Therefore, the value of this attribute must be locked to 0.

**Attribute:**

mdnl_enhan

**Fullname:**

MDNL enhanced.

**Attribute Description:**

This attribute indicates which MDNL package (basic or enhanced), if any, the customer has.

DBYES (Master DN has enhanced MDNL)
DBNO (Master DN either has basic MDNL or has no MDNL)

Dependencies:

```
if (mdnl_enhan=DBNO) then
    ((mdnl_rcf = mdnl_opt) &&
        mdnl_rcf != DEPEND_ONLY &&
        mdnl_opt != DEPEND_ONLY );
if (mdnl_enhan=DBNO && mdnl_opt=MASTER_ONLY) then
        RLcf_opts.fwd_cndtn must be equal CFN_BSYIDL;

if (mdnl_enhan=DBYES) then
    ltm_type must be LTM_OTHER;
```

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```
            must find a tuple in RLcf_opts
            where (RLcf_opts.feat_id = RLcf_ltm.feat_id)
            when found
                RLcf_opts.fwd_cndtn must be equal CFN_BSYIDL;
                must not find tuple in RLport_group
                where ((RLport_group.port=RLfc_line.port) and
                (RLport_group.party=RLfc_line.party));

        NOTE: if mdnl_enhan = DBYES && mdnl_opt=DEPEND_ONLY
        && fc_line.multidn = DBNO then no DN will be forwarded.
```

**Attribute:**
mdnl_opt
**Fullname:**
Master, Dependant or all (MDNL) option.
**Attribute Description:**
this attribute indicates which DN (Master,Dependent or all) will be forwarded and this option is CORCable.

**Attribute:**
mdnl_rcf
**Fullname:**
MDNL remotely activated.
**Attribute Description:**
this attribute indicates which DN (Master,Dependent or all) will be forwarded when forwarding is activated remotely. This field is changed thru service only.

**Attribute:**
mdnl_emsi
**Fullname:**
MDNL Enhanced Message Service Indication.
**Attribute Description:**
This attribute indicates which DN (Master or Called) will be sent when a call is forwarded. When set to DBYES the Master DN will be provided as the forwarding party. When set to DBNO the DN that was called will be provided as the forwarding party. The forwarding party DN is provided over the API link as well as in the ICLID data. NOTE: This attribute is NOT CORCable.

CHECKS: In order to provide more flexibility during CF Feature Administration there are no cross-checks restricting assignment of MDNL EMSI. However, the Call Processing code will provide the Called party for MLHG calls and ISDN calls, even if mdnl_emsi is set to DBYES. For call forwarding features with the CFN_ACDQIDL forwarding condition, MDNL Enhanced Message Service Indication must be DBNO.

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**Attribute:**
cfda_cw
**Fullname:**
activate CFDA/CW special feature indicator.
**Attribute Description:**
The indicator provides the ability to override the office option on a per line basis and is used when the office option for CFDA/CW special feature (SFID062) is set to YES on RC/V Secured Feature Upgrade view.

If the line has CFDA feature (with RLcf_opts.fwd_cndtn equals CFN_IDLE), this bit will indicate whether CFDA after CW feature is activated on the line (YES) or not activated (NO).

If SFID062 is not set (NO), then the cfda_cw must contain the default value of DBYES for CFDA features assigned to unshared analog lines; and must contain the default value of DBNO for ISDN lines, Shared Analog lines, and lines has non-CFDA features (with RLcf_opts.fwd_cndtn != CFN_IDLE).

This indicator is always set to DBNO for ISDN lines, Shared Analog lines (the check on RLcf_ltm.ltm_type - 'LTM_ISDN' will cover both cases), and lines that have non-CFDA features.

**Attribute:**
cfimb
**Fullname:**
Call Forwarding Busy Line Inhibit Make Busy
**Attribute Description:**
This attribute indicates whether call forwarding busy line is inhibited if a make busy key or make busy feature button is active

**Attribute:**
cfilb
**Fullname:**
Call Forwarding Busy Line Inhibit Line Busy
**Attribute Description:**
This attribute indicates whether call forwarding busy line is inhibited if a line is busy and the make busy key or make busy feature button is inactive

**Attribute:**
ovfcfi
**Fullname:**
Overflow tone for Call Forwarding Busy Line Inhibit

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**Attribute Description:**
This attribute indicates whether overflow tone should be given instead of busy tone when call forwarding busy line is inhibited

**Attribute:**
cfdarc
**Fullname:**
Call Forwarding Don't Answer - Ring Control
**Attribute Description:**
When this attribute is set to DBYES, this subscriber has CFDA-RC option active. In order for this attribute be DBYES secured feature 335 has to be active. This attribute cannot be updated from DBYES to DBNO when OFID 737 is active.

**Attribute:**
cs_alwd
**Fullname:**
Call Screening allowed.
**Attribute Description:**
This attribute Indicates whether Call Screening is allowed.

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# CF_OPTS

## 1. Description

This relation contains the call forwarding constructed feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 80 |
| expected tuples in relation | 64 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
CF_OPTS     relid = 466   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP


    feat_id     DMMCC_FID    (ushort)  <--- key
    annc_ri     DMRTEIDX     (ushort: 14)
(a) mdnl_opt    DMMDNL_OPT   (enum: 2)
    ia_sim_act  DMCFSIM      (ushort: 8)
    ir_sim_act  DMCFSIM      (ushort: 8)
    dont_ans_t  DMUNS8       (ushort: 8)
    seq_act     DMCFSEQ      (ushort: 6)
(b) dctvn       DMMC_DCTYP   (enum: 2)
(c) fwd_cndtn   DMCF_CNDTN   (enum: 4)
    actvn       DMMC_ACTYP   (enum: 3)
(d) bs_rg_ind   DMBOOL       (enum: 1)
(e) mdnl_rcf    DMMDNL_OPT   (enum: 2)
(f) ffcf1       DMBOOL       (enum: 1)
(g) ffcf2       DMBOOL       (enum: 1)
(h) ffcf3       DMBOOL       (enum: 1)
(i) ffcf4       DMBOOL       (enum: 1)
(j) chg_datim   DMBOOL       (enum: 1)
(k) chg_fwdn    DMBOOL       (enum: 1)
(l) cfpf_alwd   DMBOOL       (enum: 1)
(m) mdnl_enhan  DMBOOL       (enum: 1)
(n) mdnl_emsi   DMBOOL       (enum: 1)
(o) cfda_cw     DMBOOL       (enum: 1)
(p) cfimb       DMBOOL       (enum: 1)
(q) cfilb       DMBOOL       (enum: 1)
(r) ovfcfi      DMBOOL       (enum: 1)
(s) cfdarc      DMBOOL       (enum: 1)
(t) cs_alwd     DMBOOL       (enum: 1)
    acct_code   DMDC15       (struct)
        dig5        DMBCD        (ushort: 4)
        dig1        DMBCD        (ushort: 4)
        dig6        DMBCD        (ushort: 4)
        dig2        DMBCD        (ushort: 4)
        dig7        DMBCD        (ushort: 4)
        dig3        DMBCD        (ushort: 4)
```

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```
        dig8        DMBCD        (ushort: 4)
        dig4        DMBCD        (ushort: 4)
        dig13       DMBCD        (ushort: 4)
        dig9        DMBCD        (ushort: 4)
        dig14       DMBCD        (ushort: 4)
        dig10       DMBCD        (ushort: 4)
        dig15       DMBCD        (ushort: 4)
        dig11       DMBCD        (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig12       DMBCD        (ushort: 4)
    auth_code   DMDC15       (struct)
        dig5        DMBCD        (ushort: 4)
        dig1        DMBCD        (ushort: 4)
        dig6        DMBCD        (ushort: 4)
        dig2        DMBCD        (ushort: 4)
        dig7        DMBCD        (ushort: 4)
        dig3        DMBCD        (ushort: 4)
        dig8        DMBCD        (ushort: 4)
        dig4        DMBCD        (ushort: 4)
        dig13       DMBCD        (ushort: 4)
        dig9        DMBCD        (ushort: 4)
        dig14       DMBCD        (ushort: 4)
        dig10       DMBCD        (ushort: 4)
        dig15       DMBCD        (ushort: 4)
        dig11       DMBCD        (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig12       DMBCD        (ushort: 4)
    call_fltr   DMMCCLFLTR   (struct)
(u)     intratg     DMBOOL       (enum: 1)
(v)     intraoff    DMBOOL       (enum: 1)
(w)     interoff    DMBOOL       (enum: 1)
(x)     pf          DMBOOL       (enum: 1)
(y)     attndnt     DMBOOL       (enum: 1)
    dnfltr      DMMCDNFLTR   (struct)
(z)     all_pass    DMBOOL       (enum: 1)
(A)     optn_a      DMBOOL       (enum: 1)
(B)     optn_b      DMBOOL       (enum: 1)
(C)     optn_c      DMBOOL       (enum: 1)
(D)     optn_d      DMBOOL       (enum: 1)
(E)     optn_e      DMBOOL       (enum: 1)
(F)     optn_f      DMBOOL       (enum: 1)
(G)     optn_g      DMBOOL       (enum: 1)
(H)     optn_h      DMBOOL       (enum: 1)
(I)     optn_i      DMBOOL       (enum: 1)
(J)     optn_j      DMBOOL       (enum: 1)
(K)     optn_k      DMBOOL       (enum: 1)
(L)     optn_l      DMBOOL       (enum: 1)
(M)     optn_m      DMBOOL       (enum: 1)
(N)     optn_n      DMBOOL       (enum: 1)
(O)     optn_o      DMBOOL       (enum: 1)
(P)     optn_p      DMBOOL       (enum: 1)
(Q)     optn_q      DMBOOL       (enum: 1)
(R)     optn_18     DMBOOL       (enum: 1)
(S)     optn_19     DMBOOL       (enum: 1)
```

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```
(T)     optn_20     DMBOOL       (enum: 1)
(U)     optn_21     DMBOOL       (enum: 1)
(V)     optn_22     DMBOOL       (enum: 1)
(W)     optn_23     DMBOOL       (enum: 1)
(X)     optn_24     DMBOOL       (enum: 1)
(Y)     optn_25     DMBOOL       (enum: 1)
(Z)     optn_26     DMBOOL       (enum: 1)
(a)     optn_27     DMBOOL       (enum: 1)
(b)     optn_28     DMBOOL       (enum: 1)
(c)     optn_29     DMBOOL       (enum: 1)
(d)     optn_30     DMBOOL       (enum: 1)
(e)     optn_31     DMBOOL       (enum: 1)
    fwd_dn      DMEDN32      (struct)  <--- compacted
        dcnt32      DMDCNT32     (ushort: 6)
        edn32       DMEDIGSTR    (array [ 32 ] of char )
           User Tuple Layout   CF_OPTS
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |   |
 0 |            feat_id            |          annc_ri              | a |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |   |
 4 |   ia_sim_act  |   ir_sim_act  |   dont_ans_t  |  seq_act      | b |
   |---------------+---------------+---------------+---------------|
   |       |     | |   | | | | | | | | | | | | | | |             |
 8 |   c   |actvn|d| e |f|g|h|i|j|k|l|m|n|o|p|q|r|s|t|*************|
   |===============+========== acct_code ==========+===============|
   |       |       |       |       |       |       |       |       |
12 |  dig5 |  dig1 |  dig6 |  dig2 |  dig7 |  dig3 |  dig8 |  dig4 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
16 | dig13 |  dig9 | dig14 | dig10 | dig15 | dig11 | digcnt| dig12 |
   |===============+========== auth_code ==========+===============|
   |       |       |       |       |       |       |       |       |
20 |  dig5 |  dig1 |  dig6 |  dig2 |  dig7 |  dig3 |  dig8 |  dig4 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
24 | dig13 |  dig9 | dig14 | dig10 | dig15 | dig11 | digcnt| dig12 |
   |===============+========== call_fltr ==========+===============|
   | | | | | |                                                     |
28 |u|v|w|x|y|*****************************************************|
   |===============+===========  dnfltr ===========+===============|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
32 |z|A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z|a|b|c|d|e|
   |===============+===========  fwd_dn ===========+===============|
   |           |                                                   |
36 |   dcnt32  |***************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
40 |                           edn32                               |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
44 |                           edn32                               |
```

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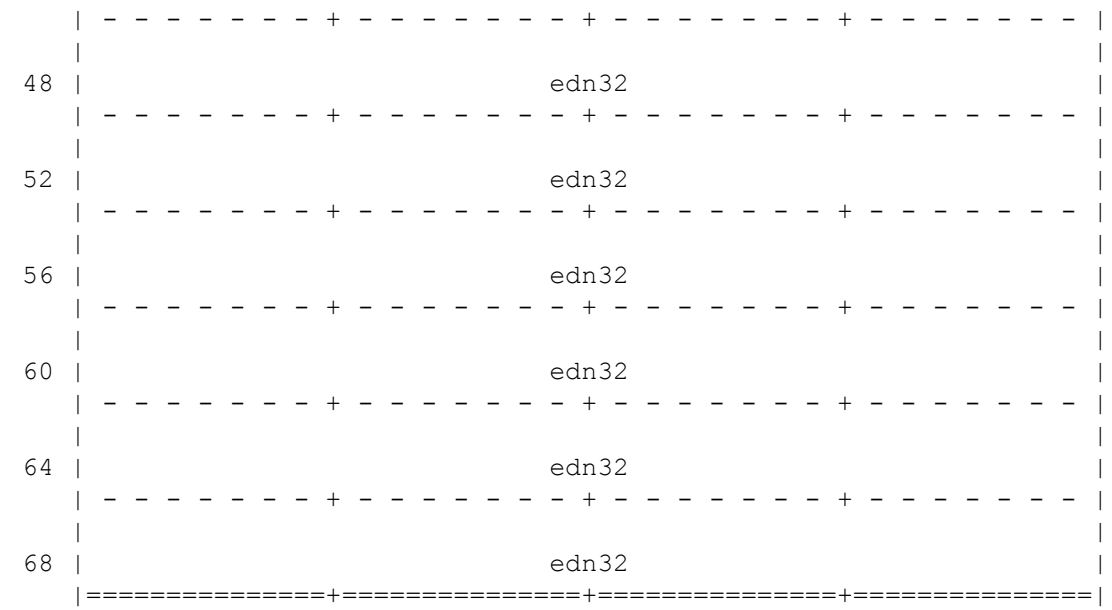


( 72 bytes )

```
    feat_id     DMMCC_FID    (ushort)  <--- key
    annc_ri     DMRTEIDX     (ushort: 14)
(a) mdnl_opt    DMMDNL_OPT   (enum: 2)
    ia_sim_act  DMCFSIM      (ushort: 8)
    ir_sim_act  DMCFSIM      (ushort: 8)
    dont_ans_t  DMUNS8       (ushort: 8)
    seq_act     DMCFSEQ      (ushort: 6)
(b) dctvn       DMMC_DCTYP   (enum: 2)
(c) fwd_cndtn   DMCF_CNDTN   (enum: 4)
    actvn       DMMC_ACTYP   (enum: 3)
(d) bs_rg_ind   DMBOOL       (enum: 1)
(e) mdnl_rcf    DMMDNL_OPT   (enum: 2)
(f) ffcf1       DMBOOL       (enum: 1)
(g) ffcf2       DMBOOL       (enum: 1)
(h) ffcf3       DMBOOL       (enum: 1)
(i) ffcf4       DMBOOL       (enum: 1)
(j) chg_datim   DMBOOL       (enum: 1)
(k) chg_fwdn    DMBOOL       (enum: 1)
(l) cfpf_alwd   DMBOOL       (enum: 1)
(m) mdnl_enhan  DMBOOL       (enum: 1)
(n) mdnl_emsi   DMBOOL       (enum: 1)
(o) cfda_cw     DMBOOL       (enum: 1)
(p) cfimb       DMBOOL       (enum: 1)
(q) cfilb       DMBOOL       (enum: 1)
(r) ovfcfi      DMBOOL       (enum: 1)
(s) cfdarc      DMBOOL       (enum: 1)
(t) cs_alwd     DMBOOL       (enum: 1)
    acct_code   DMDC15       (struct)
        dig5        DMBCD        (ushort: 4)
        dig1        DMBCD        (ushort: 4)
        dig6        DMBCD        (ushort: 4)
        dig2        DMBCD        (ushort: 4)
```

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```
        dig7        DMBCD        (ushort: 4)
        dig3        DMBCD        (ushort: 4)
        dig8        DMBCD        (ushort: 4)
        dig4        DMBCD        (ushort: 4)
        dig13       DMBCD        (ushort: 4)
        dig9        DMBCD        (ushort: 4)
        dig14       DMBCD        (ushort: 4)
        dig10       DMBCD        (ushort: 4)
        dig15       DMBCD        (ushort: 4)
        dig11       DMBCD        (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig12       DMBCD        (ushort: 4)
    auth_code   DMDC15       (struct)
        dig5        DMBCD        (ushort: 4)
        dig1        DMBCD        (ushort: 4)
        dig6        DMBCD        (ushort: 4)
        dig2        DMBCD        (ushort: 4)
        dig7        DMBCD        (ushort: 4)
        dig3        DMBCD        (ushort: 4)
        dig8        DMBCD        (ushort: 4)
        dig4        DMBCD        (ushort: 4)
        dig13       DMBCD        (ushort: 4)
        dig9        DMBCD        (ushort: 4)
        dig14       DMBCD        (ushort: 4)
        dig10       DMBCD        (ushort: 4)
        dig15       DMBCD        (ushort: 4)
        dig11       DMBCD        (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig12       DMBCD        (ushort: 4)
    call_fltr   DMMCCLFLTR   (struct)
(u)     intratg     DMBOOL       (enum: 1)
(v)     intraoff    DMBOOL       (enum: 1)
(w)     interoff    DMBOOL       (enum: 1)
(x)     pf          DMBOOL       (enum: 1)
(y)     attndnt     DMBOOL       (enum: 1)
    dnfltr      DMMCDNFLTR   (struct)
(z)     all_pass    DMBOOL       (enum: 1)
(A)     optn_a      DMBOOL       (enum: 1)
(B)     optn_b      DMBOOL       (enum: 1)
(C)     optn_c      DMBOOL       (enum: 1)
(D)     optn_d      DMBOOL       (enum: 1)
(E)     optn_e      DMBOOL       (enum: 1)
(F)     optn_f      DMBOOL       (enum: 1)
(G)     optn_g      DMBOOL       (enum: 1)
(H)     optn_h      DMBOOL       (enum: 1)
(I)     optn_i      DMBOOL       (enum: 1)
(J)     optn_j      DMBOOL       (enum: 1)
(K)     optn_k      DMBOOL       (enum: 1)
(L)     optn_l      DMBOOL       (enum: 1)
(M)     optn_m      DMBOOL       (enum: 1)
(N)     optn_n      DMBOOL       (enum: 1)
(O)     optn_o      DMBOOL       (enum: 1)
(P)     optn_p      DMBOOL       (enum: 1)
(Q)     optn_q      DMBOOL       (enum: 1)
```

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```
(R)     optn_18     DMBOOL       (enum: 1)
(S)     optn_19     DMBOOL       (enum: 1)
(T)     optn_20     DMBOOL       (enum: 1)
(U)     optn_21     DMBOOL       (enum: 1)
(V)     optn_22     DMBOOL       (enum: 1)
(W)     optn_23     DMBOOL       (enum: 1)
(X)     optn_24     DMBOOL       (enum: 1)
(Y)     optn_25     DMBOOL       (enum: 1)
(Z)     optn_26     DMBOOL       (enum: 1)
(a)     optn_27     DMBOOL       (enum: 1)
(b)     optn_28     DMBOOL       (enum: 1)
(c)     optn_29     DMBOOL       (enum: 1)
(d)     optn_30     DMBOOL       (enum: 1)
(e)     optn_31     DMBOOL       (enum: 1)
    fwd_dn      DMCEDN32     (struct)  <--- compacted
        digcnt      DMDCNT32     (ushort: 6)
        edn32a      DMBCD8       (ulong)
        edn32b      DMBCD8       (ulong)
        edn32c      DMBCD8       (ulong)
        edn32d      DMBCD8       (ulong)
```

Compacted Tuple Layout CF_OPTS

```
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |   |
 0 |            feat_id            |          annc_ri              | a |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |   |
 4 |   ia_sim_act  |   ir_sim_act  |   dont_ans_t  |  seq_act      | b |
   |---------------+---------------+---------------+---------------|
   |       |     | |   | | | | | | | | | | | | | | |             |
 8 |   c   |actvn|d| e |f|g|h|i|j|k|l|m|n|o|p|q|r|s|t|*************|
   |===============+========== acct_code ==========+===============|
   |       |       |       |       |       |       |       |       |
12 |  dig5 |  dig1 |  dig6 |  dig2 |  dig7 |  dig3 |  dig8 |  dig4 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
16 | dig13 |  dig9 | dig14 | dig10 | dig15 | dig11 | digcnt| dig12 |
   |===============+========== auth_code ==========+===============|
   |       |       |       |       |       |       |       |       |
20 |  dig5 |  dig1 |  dig6 |  dig2 |  dig7 |  dig3 |  dig8 |  dig4 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
24 | dig13 |  dig9 | dig14 | dig10 | dig15 | dig11 | digcnt| dig12 |
   |===============+========== call_fltr ==========+===============|
   | | | | | |                                                     |
28 |u|v|w|x|y|*****************************************************|
   |===============+===========  dnfltr ===========+===============|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
32 |z|A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z|a|b|c|d|e|
   |===============+===========  fwd_dn ===========+===============|
   |           |                                                   |
36 |   digcnt  |***************************************************|
   |---------------+---------------+---------------+---------------|
```

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( 72 bytes )

```
    feat_id     DMMCC_FID    (ushort)  <--- key
    annc_ri     DMRTEIDX     (ushort: 14)
(a) mdnl_opt    DMMDNL_OPT   (enum: 2)
    ia_sim_act  DMCFSIM      (ushort: 8)
    ir_sim_act  DMCFSIM      (ushort: 8)
    dont_ans_t  DMUNS8       (ushort: 8)
    seq_act     DMCFSEQ      (ushort: 6)
(b) dctvn       DMMC_DCTYP   (enum: 2)
(c) fwd_cndtn   DMCF_CNDTN   (enum: 4)
    actvn       DMMC_ACTYP   (enum: 3)
(d) bs_rg_ind   DMBOOL       (enum: 1)
(e) mdnl_rcf    DMMDNL_OPT   (enum: 2)
(f) ffcf1       DMBOOL       (enum: 1)
(g) ffcf2       DMBOOL       (enum: 1)
(h) ffcf3       DMBOOL       (enum: 1)
(i) ffcf4       DMBOOL       (enum: 1)
(j) chg_datim   DMBOOL       (enum: 1)
(k) chg_fwdn    DMBOOL       (enum: 1)
(l) cfpf_alwd   DMBOOL       (enum: 1)
(m) mdnl_enhan  DMBOOL       (enum: 1)
(n) mdnl_emsi   DMBOOL       (enum: 1)
(o) cfda_cw     DMBOOL       (enum: 1)
(p) cfimb       DMBOOL       (enum: 1)
(q) cfilb       DMBOOL       (enum: 1)
(r) ovfcfi      DMBOOL       (enum: 1)
(s) cfdarc      DMBOOL       (enum: 1)
(t) cs_alwd     DMBOOL       (enum: 1)
```

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```
    acct_code   DMDC15       (struct)
        dig5        DMBCD        (ushort: 4)
        dig1        DMBCD        (ushort: 4)
        dig6        DMBCD        (ushort: 4)
        dig2        DMBCD        (ushort: 4)
        dig7        DMBCD        (ushort: 4)
        dig3        DMBCD        (ushort: 4)
        dig8        DMBCD        (ushort: 4)
        dig4        DMBCD        (ushort: 4)
        dig13       DMBCD        (ushort: 4)
        dig9        DMBCD        (ushort: 4)
        dig14       DMBCD        (ushort: 4)
        dig10       DMBCD        (ushort: 4)
        dig15       DMBCD        (ushort: 4)
        dig11       DMBCD        (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig12       DMBCD        (ushort: 4)
    auth_code   DMDC15       (struct)
        dig5        DMBCD        (ushort: 4)
        dig1        DMBCD        (ushort: 4)
        dig6        DMBCD        (ushort: 4)
        dig2        DMBCD        (ushort: 4)
        dig7        DMBCD        (ushort: 4)
        dig3        DMBCD        (ushort: 4)
        dig8        DMBCD        (ushort: 4)
        dig4        DMBCD        (ushort: 4)
        dig13       DMBCD        (ushort: 4)
        dig9        DMBCD        (ushort: 4)
        dig14       DMBCD        (ushort: 4)
        dig10       DMBCD        (ushort: 4)
        dig15       DMBCD        (ushort: 4)
        dig11       DMBCD        (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig12       DMBCD        (ushort: 4)
    call_fltr   DMMCCLFLTR   (struct)
(u)     intratg     DMBOOL       (enum: 1)
(v)     intraoff    DMBOOL       (enum: 1)
(w)     interoff    DMBOOL       (enum: 1)
(x)     pf          DMBOOL       (enum: 1)
(y)     attndnt     DMBOOL       (enum: 1)
    dnfltr      DMMCDNFLTR   (struct)
(z)     all_pass    DMBOOL       (enum: 1)
(A)     optn_a      DMBOOL       (enum: 1)
(B)     optn_b      DMBOOL       (enum: 1)
(C)     optn_c      DMBOOL       (enum: 1)
(D)     optn_d      DMBOOL       (enum: 1)
(E)     optn_e      DMBOOL       (enum: 1)
(F)     optn_f      DMBOOL       (enum: 1)
(G)     optn_g      DMBOOL       (enum: 1)
(H)     optn_h      DMBOOL       (enum: 1)
(I)     optn_i      DMBOOL       (enum: 1)
(J)     optn_j      DMBOOL       (enum: 1)
(K)     optn_k      DMBOOL       (enum: 1)
(L)     optn_l      DMBOOL       (enum: 1)
```

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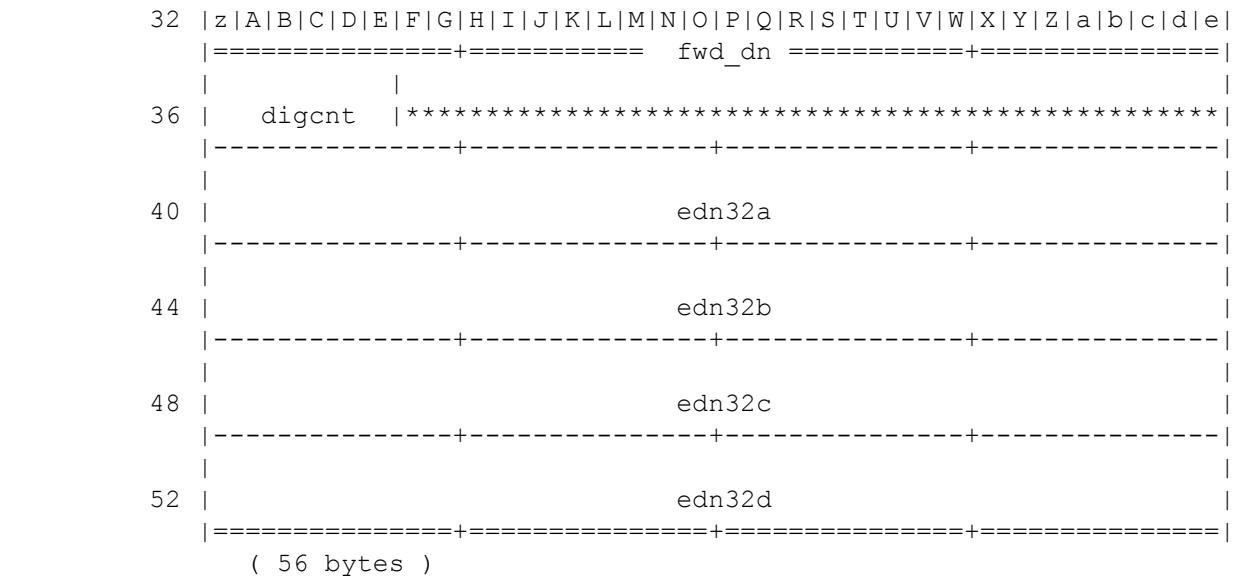
```
(M)     optn_m      DMBOOL       (enum: 1)
(N)     optn_n      DMBOOL       (enum: 1)
(O)     optn_o      DMBOOL       (enum: 1)
(P)     optn_p      DMBOOL       (enum: 1)
(Q)     optn_q      DMBOOL       (enum: 1)
(R)     optn_18     DMBOOL       (enum: 1)
(S)     optn_19     DMBOOL       (enum: 1)
(T)     optn_20     DMBOOL       (enum: 1)
(U)     optn_21     DMBOOL       (enum: 1)
(V)     optn_22     DMBOOL       (enum: 1)
(W)     optn_23     DMBOOL       (enum: 1)
(X)     optn_24     DMBOOL       (enum: 1)
(Y)     optn_25     DMBOOL       (enum: 1)
(Z)     optn_26     DMBOOL       (enum: 1)
(a)     optn_27     DMBOOL       (enum: 1)
(b)     optn_28     DMBOOL       (enum: 1)
(c)     optn_29     DMBOOL       (enum: 1)
(d)     optn_30     DMBOOL       (enum: 1)
(e)     optn_31     DMBOOL       (enum: 1)
    fwd_dn      DMCEDN32     (struct)  <--- compacted
        digcnt      DMDCNT32     (ushort: 6)
        edn32a      DMBCD8       (ulong)
        edn32b      DMBCD8       (ulong)
        edn32c      DMBCD8       (ulong)
        edn32d      DMBCD8       (ulong)
          Stored Tuple Layout      CF_OPTS
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |   |
 0 |            feat_id            |          annc_ri              | a |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |   |
 4 |   ia_sim_act  |   ir_sim_act  |   dont_ans_t  |  seq_act      | b |
   |---------------+---------------+---------------+---------------|
   |       |     | |   | | | | | | | | | | | | | | |               |
 8 |   c   |actvn|d| e |f|g|h|i|j|k|l|m|n|o|p|q|r|s|t|*************|
   |===============+========== acct_code ==========+===============|
   |       |       |       |       |       |       |       |       |
12 |  dig5 |  dig1 |  dig6 |  dig2 |  dig7 |  dig3 |  dig8 |  dig4 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
16 | dig13 |  dig9 | dig14 | dig10 | dig15 | dig11 | digcnt| dig12 |
   |===============+========== auth_code ==========+===============|
   |       |       |       |       |       |       |       |       |
20 |  dig5 |  dig1 |  dig6 |  dig2 |  dig7 |  dig3 |  dig8 |  dig4 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
24 | dig13 |  dig9 | dig14 | dig10 | dig15 | dig11 | digcnt| dig12 |
   |===============+========== call_fltr ==========+===============|
   | | | | | |                                                     |
28 |u|v|w|x|y|*************************************************|
   |===============+==========  dnfltr ==========+===============|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
```




## 4. Population rules for RLcf_opts

### Relation Description

Call forwarding options.

Call Forwarding Feature Definition's Options & Defaults:

**Attribute:**
feat_id
**Fullname:**
feature id.
**Attribute Description:**
call forwarding constructed feature id.
verify that RLfacname has a tuple such that
feat_id = RLfacname.facid, and RLfacname.class =
FACBRCS for that tuple.

**Attribute:**
fwd_cndtn
**Fullname:**
conditions for forwarding.
**Attribute Description:**
condition for forwarding call. Range: CFN_BUSY,
CFN_IDLE, CFN_BSYIDL, CFN_PRCB, CFN_PRCI, CFN_PRCV,
CFN_DBUSY, CFN_DIDLE, CFN_DBSYIDL, CFN_PPBUSY,
CFN_PPIDLE, or CFN_ACDQIDL.

If set to CFN_PPBUSY, or CFN_PPIDLE,
then for this same tuple the attribute actvn must
be set to ACTNONE, the attribute dctvn must
be set to DCTNONE, and call_fltr.attndnt = DBNO.
If set to CFN_ACDQIDL, the actvn attribute must

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be set to ACTNONE and the dctvn attribute must be set to DCTNONE.

If fwd_cndtn set to CFN_DBUSY, CFN_DIDLE, or CFN_DBSYIDL, then call_fltr.attndnt = DBNO.

CSV CF and CSD CF can exist in the same BFG with the following three restrictions.

1. There can be either CFN_BUSY or CFN_DBUSY in the same BFG, but not both.
2. There can be at most one of the following call forwarding idle features in a BFG: CFN_IDLE, CFN_DIDLE or CFN_ACDQIDL.
3. There can be either CFN_BSYIDL or CFN_DBSYIDL in the same BFG, but not both.

The PRL for these three restrictions are found in the r elation RLdn_feats under Selection Criteria checks.

If condition for forwarding call is CFN_BUSY, CFN_IDLE, CFN_BSYIDL, CFN_DBUSY, CFN_DIDLE, CFN_DBSYIDL,
a forwarding DN is required.

In order to supply data needed for call processing, the forwarding DN must be either in the database or given by the user at activation time. The forward-to DN is defined in RLcf_port for 5e3_1l and in RLcf_ltm for 5e4_2q and later generics.

For the CFN_ACDQIDL forwarding condition, no forwarding DN is allowed.

**Attribute:**
call_fltr
**Fullname:**
incoming call filter.
**Attribute Description:**
Incoming call screening filter. Range: DBYES, DBNO for all five enumerated values.

For call forwarding features with the CFN_ACDQIDL forwarding condition, all five call screening filter values should be DBYES.

**Attribute:**
call_fltr.intratg
**Fullname:**
Intra-terminal group.
**Attribute Description:**
Intra-terminal group.

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**Attribute:**
call_fltr.intraoff
**Fullname:**
Intra-office.
**Attribute Description:**
Intra-office.

**Attribute:**
call_fltr.interoff
**Fullname:**
Inter-office.
**Attribute Description:**
Inter-office.

**Attribute:**
call_fltr.pf
**Fullname:**
Private facility.
**Attribute Description:**
Private facility.

**Attribute:**
call_fltr.attndnt
**Fullname:**
Attendant.
**Attribute Description:**
Attendant.

**Attribute:**
bs_rg_ind
**Fullname:**
Base station ring indicator.
**Attribute Description:**
Indicate if ring reminder provided for base station.

For call forwarding features with the CFN_ACDQIDL forwarding condition, the base station ring indicator must be DBNO.

**Attribute:**
ffcf[*]
**Fullname:**
future field feature.
**Attribute Description:**
Spare bit reserved for future field feature.

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**Attribute:**
cfdarc
**Fullname:**
Call Forward Don't Answer - Ring Control
**Attribute Description:**
When this attribute is set to DBYES, this [pre]constructed feature has CFDA-RC option active. In order for this attribute be DBYES secured feature 335 has to be active.

**Attribute:**
actvn
**Fullname:**
Activation.
**Attribute Description:**
Indicates method of activating MFC features
Range of values: all enumerated values.

If the attribute fwd_cndtn for this tuple is set to CFN_PPBUSY, or CFN_PPIDLE, then this value must be set to ACTNONE.

If the attribute fwd_cndtn for this tuple is set to CFN_DBUSY, CFN_DIDLE, or CFN_DBSYIDL, then this value must be set to ACTCD, ACTCD_DN, or ACTNONE.

If the attribute fwd_cndtn for this tuple is set to CFN_ACDQIDL, then this value must be set to ACTNONE.

| Enum. value | Dependency |
|---|---|
| ACTNONE | 1) RLcf_opts.dctvn = DCTNONE or DCTCD<br>2) At feature assignment time, fwd_dn must be assigned and not null unless fwd_cndtn equals CFN_ACDQIDL. For CFN_ACDQIDL, the fwd_dn must be null. |
| ACTCD | 1) RLcf_opts.dctvn = DCTCD or DCTAUTO<br>*** ODA ONLY WARNING ***<br>*** (NOT SUPPORTED BY RC) ***<br>2) Verify tuple exists in dial tree RLdaprlfnl or RLidp_dtre with 'action' attribute = ACN_FTACT or attribute = ACN_DBDACT or where attribute = ACN_CFVACT for the dial code.<br>3) At feature assignment time, if no fwd_dn is given, chg_fwdn must be DBYES. |
| ACTCD_DN | 1) RLcf_opts.dctvn = DCTCD or DCTAUTO<br>*** ODA ONLY WARNING ***<br>*** (NOT SUPPORTED BY RC) ***<br>2) Verify tuple exists in dial tree RLdaprlfnl or RLidp_dtre with 'action' attribute = ACN_FTACT |

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```
                or where attribute = ACN_CFVACT
                or attribute = ACN_DBDACT
                for the dial code.
        ACTCDDNC  1) RLcf_opts.dctvn = DCTCD
                     *** ODA ONLY WARNING ***
                     *** (NOT SUPPORTED BY RC) ***
        ACTCDNCA  2) Verify tuple exists in dial tree
        or           RLdaprlfnl or RLidp_dtre with
        ACTCDN1A           'action' attribute = ACN_FTACT
        or          where attribute = ACN_CFVACT
                    for the dial code.
        ACTSCAN   1) RLcf_opts.dctvn = DCTSCAN
                  2) At feature assignment time, the
                     fwd_dn must be assigned and not null.
                  3) Using the feat_id from this relation
                     as the key into RLfacftdsc verify that
                     RLfacftdsc.selcrit = CF_NS
```

**Attribute:**

dnfltr

**Fullname:**

DN filter.

**Attribute Description:**

32-boolean structure, each bit representing a certain filtering criterion for adding/changing numbers in the forward to dn numbers. Range of values for each structure member: DBYES to pass: DBNO to fail. First member set to DBYES results in no filtering being done and allows the dn to pass the filtering process without examining each bit in the structure. Pass indicates dn in question will be processed normally: Fail indicates disallowed action, and corrective or alternate action will be provided. See domain description for meaning of individual members.

If all_pass == DBYES then each of the other members = DBYES.
If one or more member of optn_x (any member with optn) = DBNO then all_pass = DBNO.

Call forwarding features with the CFN_ACDQIDL forwarding condition must have all DN filters set to DBYES.

**Attribute:**

dnfltr.all_pass

**Fullname:**

All pass.

**Attribute Description:**

if all_pass=DBYES then all other group members equal DBYES,

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if all_pass=DBNO then one or more member equal DBNO.

**Attribute:**
dnfltr.optn_a
**Fullname:**
option a.
**Attribute Description:**
Call between members of the same terminal group.

**Attribute:**
dnfltr.optn_b
**Fullname:**
option b.
**Attribute Description:**
An intraoffice call that is not an intragroup.

**Attribute:**
dnfltr.optn_c
**Fullname:**
option c.
**Attribute Description:**
An intradistrict call that is not an intragroup or interoffice call. This option basically allows interoffice 7 and 10 digit calls which may or may not have a 1+ prefix.

**Attribute:**
dnfltr.optn_d
**Fullname:**
option d.
**Attribute Description:**
An interdistrict call, that is, one which requires the dialing of a Feature Group D Carrier Access Code or one which uses presubscribed carrier.

**Attribute:**
dnfltr.optn_e
**Fullname:**
option e.
**Attribute Description:**
An international call, that is, one which requires the dialing of an international prefix (011+) followed by country code and telephone number.

**Attribute:**
dnfltr.optn_f
**Fullname:**
option f.

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**Attribute Description:**
An X11 type of call for example 411, 911 etc.

**Attribute:**
dnfltr.optn_g
**Fullname:**
option g.
**Attribute Description:**
A call to the POTS (Plain Old Telephone Service) operator 0 or in combination with option d a 0+7/10 digit intradistrict call, or in combination with option e an internatiol operator (010) or a international operator assisted call 01+.

**Attribute:**
dnfltr.optn_h
**Fullname:**
option h.
**Attribute Description:**
A POTS (Plain Old Telephone Service) feature code (*XX or *XXX) with or without subsequent parameters. When the feature code requires parameters , the system will perform no screening on the subsequent parameters.

**Attribute:**
dnfltr.optn_i
**Fullname:**
option i.
**Attribute Description:**
An IDP intercom nuber. When the system recognize that an IDP intercom number is involved the system should perform the digit deletion an d prefixing functions associated with the intercom function and then determine if that resulting number satisfies some other option selected in the same capability.

**Attribute:**
dnfltr.optn_j
**Fullname:**
option j.
**Attribute Description:**
An IDP Abbreviated Dial Code. When the system recognize an IDP abbreviated dial code the dialed number, the stored number is retrieved, and that retrieved number is checked to see if it satisfies some other option that has been selected in this screening capability.

**Attribute:**

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dnfltr.optn_k

**Fullname:**

option k.

**Attribute Description:**

This option is checked by Time Of Day (TOD) during the entry of a speed call list entry and during the activation of call forwarding over Private Facilities (CFPF) and if yes, it allows the user to dial a private facility access code for a non-senderized (cut-through) facility.

**Attribute:**

dnfltr.optn_l

**Fullname:**

option l.

**Attribute Description:**

This option is checked by TOD during the entry of a speed call list entry and during the activation of call forwarding over private facility access code (CFPF) and if yes, it allows the user to dial a private access code for senderized facility.

**Attribute:**

dnfltr.optn_m

**Fullname:**

option m.

**Attribute Description:**

An IDP POTS access code. This opyion allow an IDP POTS access code followed by digits that will be screened by other opyionsof this capability ( excluding options i, j, k, l, n, o, p, or q).

**Attribute:**

dnfltr.optn_n

**Fullname:**

option n.

**Attribute Description:**

An IDP Feature Group D Carrier Access Code. This code requires a parameter that must conform to the selected screening options.

**Attribute:**

dnfltr.optn_o

**Fullname:**

option o.

**Attribute Description:**

This option is checked by TOD during the entry of a speed call list entry and during activation of call forwarding over private facility and if yes allows the user to dial an Automatic Route Selection (ARS) access code.

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**Attribute:**
dnfltr.optn_p
**Fullname:**
option p.
**Attribute Description:**
A PP prcedence code. This code is used for storing customer changeable abbreviated dialing numbers.

**Attribute:**
dnfltr.optn_q
**Fullname:**
option q.
**Attribute Description:**
A PP AUTOVON cf number. This opyion is used with customer changeable call forwarding features. if set to DBYES then the forward-to-dn number must be to a port that can recieve AUTOVON calls. Also option_a must be set to DBYES.

**Attribute:**
dnfltr.optn_18
**Fullname:**
option 18.
**Attribute Description:**
Option 18-31 are don't care set to DBYES.

**Attribute:**
dnfltr.optn_19
**Fullname:**
option 19.
**Attribute Description:**
option 19, set to DBYES.

**Attribute:**
dnfltr.optn_20
**Fullname:**
option 20.
**Attribute Description:**
option 20, set to DBYES.

**Attribute:**
dnfltr.optn_21
**Fullname:**
option 21.
**Attribute Description:**
option 21, set to DBYES.

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**Attribute:**
dnfltr.optn_22
**Fullname:**
option 22.
**Attribute Description:**
option 22, set to DBYES.

**Attribute:**
dnfltr.optn_23
**Fullname:**
option 23.
**Attribute Description:**
option 23, set to DBYES.

**Attribute:**
dnfltr.optn_24
**Fullname:**
option 24.
**Attribute Description:**
option 24, set to DBYES.

**Attribute:**
dnfltr.optn_25
**Fullname:**
option 25.
**Attribute Description:**
option 25, set to DBYES.

**Attribute:**
dnfltr.optn_26
**Fullname:**
option 26.
**Attribute Description:**
option 26, set to DBYES.

**Attribute:**
dnfltr.optn_27
**Fullname:**
option 27.
**Attribute Description:**
option 27, set to DBYES.

**Attribute:**
dnfltr.optn_28
**Fullname:**
option 28.
**Attribute Description:**

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option 28, set to DBYES.

**Attribute:**
dnfltr.optn_29
**Fullname:**
option 29.
**Attribute Description:**
option 29, set to DBYES.

**Attribute:**
dnfltr.optn_30
**Fullname:**
option 30.
**Attribute Description:**
option 30, set to DBYES.

**Attribute:**
dnfltr.optn_31
**Fullname:**
option 31.
**Attribute Description:**
option 31, set to DBYES.

**Attribute:**
dctvn
**Fullname:**
Deactivation.
**Attribute Description:**
Indicates method of deactivating MFC feature.

If the attribute fwd_cndtn for this tuple is set to CFN_PPBUSY, CFN_PPIDLE, or CFN_ACDQIDL, then this value must be set to DCTNONE.

| Enum. value | Dependency |
|---|---|
| DCTNONE | 1) RLcf_opts.actvn = ACTNONE |
| DCTAUTO | 1) RLcf_opts.actvn = ACTCD or ACTCD_DN |
| DCTCD | 1) RLcf_opts.actvn = ACTCD,ACTCD_DN, ACTCDDNC,ACTCDNCA,ACTNONE or ACTCDN1A<br>*** ODA ONLY WARNING ***<br>*** (NOT SUPPORTED BY RC) *** |
| | 2) Verify tuple exists in dial tree RLdaprlfnl or RLidp_dtre with 'action' attribute = ACN_FTDCT or where attribute = ACN_CFVDCT for 'action' attribute = ACN_DBDDCT for the given dial code. |
| DCTSCAN | 1) RLcf_opts.actvn = ACTSCAN |

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2) Using the feat_id from this relation
as the key into RLfacftdsc verify that
RLfacftdsc.selcrit = CF_NS.

**Attribute:**
chg_datim
**Fullname:**
change dor don't answer rime.
**Attribute Description:**
Indicates if customer change the don't answer time.
*** ODA ONLY WARNING ***
*** (NOT SUPPORTED BY RC) ***
Verify tuple exists in dial tree
RLdaprlfnl or RLidp_dtre with
'action' attribute = ACN_CFDATCH for
the given dial code.

**Attribute:**
chg_fwdn
**Fullname:**
change for forward telephone number.
**Attribute Description:**
Indicates if customer can change the forward to directory number.

Call forwarding features with the CFN_ACDQIDL forwarding condition are not allowed to change their forward-to-DN.

*** ODA ONLY WARNING ***
*** (NOT SUPPORTED BY RC) ***
Verify tuple exists in dial tree RLdaprlfnl or RLidp_dtre with 'action' attribute = ACN_CFDNCH for the given dial code.

**Attribute:**
cfpf_alwd
**Fullname:**
Call Forward over Private Facilities allowed.
**Attribute Description:**
This is the Call Forwarding over Private Facilities (CFPF) indicator that indicates if the forwarded call can be over a private facility.

If a feature with cfpf_alwd set to DBYES is assigned to a standard DSL, the Secured Feature ID (SFID) 225 must be on.

Dependencies:

1) If cfpf_alwd is DBYES:

a) RLcf_opts.actvn cannot be ACTCDNCA or ACTCDN1A.

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b) RLcf_opts.fwd_cndtn cannot be CFN_PRCI.
c) RLcf_opts.fwd_cndtn cannot be CFN_IDLE unless SFID 155 is set.

2) If dnfltr.all_pass is DBNO, (DN SCREENING is allowed) and cfpf_alwd is DBYES:

a) If the Call Forwarding Over Private Facilities/Don't Answer Special Feature is not purchased (SFID 155 is not set), then screening option setting for DNSK or DNSL or DNSO must be DBYES.

b) If the Call Forwarding Over Private Facilities/Don't Answer Special Feature is purchased (SFID 155 is set), then screening option setting for DNSK must be DBNO and screening option setting for DNSL or DNSO must be DBYES.

3) If dnfltr.all_pass is DBNO (DN SCREENING is allowed) and cfpf_alwd is DBNO:

a) Screening option setting for DNSK and DNSL and DNSO must be DBNO.

4) If RLcf_opts.fwd_cndtn is CFN_DBUSY, CFN_DIDLE, CFN_DBSYIDL or CFN_ACDQIDL then cfpf_alwd must be DBNO.

**Attribute:**
annc_ri
**Fullname:**
CFPF announcement route index.
**Attribute Description:**
Indicates announcement route index for the CFPF call. The CFPF announcement is applied to the station from which the CFPF feature is activated.

Dependencies: value can only be non-zero if cfpf_alwd is DBYES, otherwise, value must be 0. A non-zero value implies the existence of a tuple in RLrt_routing keyed with this route index.

NOTE: The ability to use announcement has not been implemented yet. Therefore, the value of this attribute must be locked to 0.

**Attribute:**
acct_code
**Fullname:**

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account code.

**Attribute Description:**

This attribute stores the default account code digits used by CFPF for the collocated invocation of CFPF.

if this attribute is not all zeros cfpf_alwd must be DBYES

**Attribute:**
acct_code.dig[*]
**Fullname:**
digit.
**Attribute Description:**
digit.

**Attribute:**
acct_code.dig[*]
**Fullname:**
digit 1.
**Attribute Description:**
digit.

**Attribute:**
acct_code.dig[*]
**Fullname:**
digit.
**Attribute Description:**
digit.

**Attribute:**
acct_code.dig[*]
**Fullname:**
digit.
**Attribute Description:**
Digit.

**Attribute:**
acct_code.digcnt
**Fullname:**
digit count.
**Attribute Description:**
Digit count.

**Attribute:**
auth_code
**Fullname:**
account code.
**Attribute Description:**

This attribute stores the default authorization code digits used by CFPF for the collocated invocation of CFPF.

if this attribute is not all zeros cfpf_alwd must be DBYES

**Attribute:**
auth_code.dig[*]
**Fullname:**
digit.
**Attribute Description:**
digit.

**Attribute:**
auth_code.dig[*]
**Fullname:**
digit 1.
**Attribute Description:**
digit.

**Attribute:**
auth_code.dig[*]
**Fullname:**
digit.
**Attribute Description:**
digit.

**Attribute:**
auth_code.dig[*]
**Fullname:**
digit.
**Attribute Description:**
Digit.

**Attribute:**
auth_code.digcnt
**Fullname:**
digit count.
**Attribute Description:**
Digit count.

**Attribute:**
fwd_dn
**Fullname:**
forward DN.
**Attribute Description:**
Stored dn to forward incoming calls to ( 32 digits max ).

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For the CFN_ACDQIDL forwarding condition, no forward DN is allowed.

**Attribute:**
fwd_dn.dcnt32
**Fullname:**
32 digits.
**Attribute Description:**
Count for up to 32 digits.

**Attribute:**
fwd_dn.edn32
**Fullname:**
extended digits.
**Attribute Description:**
Array of 32 of extended digits.

**Attribute:**
seq_act
**Fullname:**
Sequential calls.
**Attribute Description:**
Maximum number of sequential calls that can be forwarded.

Calls forwarded because of a CFN_ACDQIDL forwarding condition are not subject to the restriction specified by this attribute. Therefore, this attribute will be restricted to the value 1.

**Attribute:**
ia_sim_act
**Fullname:**
intra-office simultaneously active calls.
**Attribute Description:**
Maximum number of simultaneously active intra-office calls allowed between base station and forward to DN.

Call forwarding features with the CFN_ACDQIDL forwarding condition can have only 1 simultaneously active intra-office call, based on the Automatic Call Distribution algorithm. Therefore this attribute will be restricted to the value 1.

**Attribute:**
ir_sim_act
**Fullname:**
inter-office simultaneously active calls.
**Attribute Description:**

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Maximum number of simultaneously active inter-office calls allowed between base station and forward to DN.

This attribute does not apply to calls forwarded because of a CFN_ACDQIDL forwarding condition. Therefore, this attribute will be restricted to the value 1.

**Attribute:**
dont_ans_t
**Fullname:**
do not answer time.
**Attribute Description:**
do not answer time (in seconds) before a call should be forwarded.

If fwd_cndtn is CFN_IDLE, CFN_PRCI, CFN_DIDLE, or CFN_PPIDLE, then valid values are from 4 to 60. If fwd_cndtn is CFN_IDLE or CFN_DIDLE and CFDA-Ring Control enhancement is active (SFID 335), then dont_ans_t valid values are 0 or from 4 to 60 seconds. default value should be 30.

If fwd_cndtn is CFN_ACDQIDL, valid don't answer time values are from 4 to 60 (default value should be 18 seconds).

If fwd_cndtn is CFN_BUSY, CFN_DBUSY, CFN_DBSYIDL, CFN_PPBUSY, CFN_PRCB, CFN_BSYIDL, or CFN_PRCV, then dont_ans_t should be zero.

**Attribute:**
mdnl_enhan
**Fullname:**
Master,Dependent or all enhanced.
**Attribute Description:**
this attribute indicates which package (basic or enhanced), if any, the customer has.

**Attribute:**
mdnl_opt
**Fullname:**
Master,Dependent or all enhanced options.
**Attribute Description:**
this attribute indicates which DN (Master,Dependent or all) will be forwarded.

**Attribute:**

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mdnl_rcf

**Fullname:**

Master,Dependent  or all remote activatiot.

**Attribute Description:**

this attribute indicates which DN (Master,Dependent or all) will be forwarded when forwarding is activated remotely.  This field is decided at subscription time.

**Attribute:**

mdnl_emsi

**Fullname:**

MDNL Enhanced Message Service Indication.

**Attribute Description:**

This attribute indicates which DN (Master or Called) will be sent when a call is forwarded. When set to DBYES the Master DN will be provided as the forwarding party. When set to DBNO the DN that was called will be provided as the forwarding party. The forwarding party DN is provided over the API link as well as in the ICLID data. NOTE: This attribute is NOT CORCable.

CHECKS: In order to provide more flexibility during CF Feature Administration there are no cross-checks restricting assignment of MDNL EMSI. However, the Call Processing code will provide the Called party for MLHG calls and ISDN calls, even if mdnl_emsi is set to DBYES. For call forwarding features with the CFN_ACDQIDL forwarding condition, MDNL Enhanced Message Service Indication must be DBNO.

**Attribute:**

cfda_cw

**Fullname:**

activate CFDA/CW special feature indicator.

**Attribute Description:**

The indicator provides the ability to override the office option and is used when the office option for CFDA/CW special feature (SFID062) is set to YES on RC/V Secured Feature Upgrade view.

If the feature is a CFDA feature (with fwd_cndtn equals CFN_IDLE), this bit will indicate whether CFDA after CW is active (YES) or not active (NO).

If SFID062 is not set (NO), the cfda_cw must contain the default value of DBYES for CFDA features, and must contain the default value of DBNO for non-CFDA features (with fwd_cndtn not equals CFN_IDLE).

For non-CFDA features, this bit should be always set to

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DBNO.

**Attribute:**
cfimb
**Fullname:**
Call Forwarding Busy Line Inhibit Make Busy
**Attribute Description:**
This attribute indicates whether call forwarding busy line is inhibited if a make busy key or make busy feature button is active

**Attribute:**
cfilb
**Fullname:**
Call Forwarding Busy Line Inhibit Line Busy
**Attribute Description:**
This attribute indicates whether call forwarding busy line is inhibited if a line is busy and the make busy key or make busy feature button is inactive

**Attribute:**
ovfcfi
**Fullname:**
Overflow Tone for Call Forwarding Busy Line Inhibit
**Attribute Description:**
This attribute indicates whether overflow tone should be given instead of busy tone when call forwarding busy line is inhibited

**Attribute:**
cs_alwd
**Fullname:**
Call Screening allowed
**Attribute Description:**
This attribute Indicates whether Call Screening is allowed

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# CFLT_G

## 1. Description

This relation contains the call forward feature parameters on this logical termination port.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 6000 |
| expected number of tuples | 100 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTORAGE |
| index length | 0 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel GK-index relation | rlCFLT_I |

## 3. Field Layout

```
CFLT_G      relid = 1626  DBSTORAGE  DBACC_GK    DBPRAM    FG      NULL


    gkCFLT_G    DMGK14       (ulong: 14)       <--- key, not stored
    annc_ri     DMRTEIDX     (ushort: 14)
(a) mdnl_opt    DMMDNL_OPT   (enum: 2)
    ia_sim_act  DMCFSIM      (ushort: 8)
    ir_sim_act  DMCFSIM      (ushort: 8)
    dont_ans_t  DMUNS8       (ushort: 8)
    seq_act     DMCFSEQ      (ushort: 6)
(b) mdnl_rcf    DMMDNL_OPT   (enum: 2)
(c) bs_rg_ind   DMBOOL       (enum: 1)
(d) cfpf_digs   DMBOOL       (enum: 1)
(e) ffcf1       DMBOOL       (enum: 1)
(f) ffcf2       DMBOOL       (enum: 1)
(g) ffcf3       DMBOOL       (enum: 1)
(h) ffcf4       DMBOOL       (enum: 1)
(i) cfpf_codes  DMBOOL       (enum: 1)
(j) mdnl_enhan  DMBOOL       (enum: 1)
(k) mdnl_emsi   DMBOOL       (enum: 1)
(l) cfda_cw     DMBOOL       (enum: 1)
(m) cfimb       DMBOOL       (enum: 1)
(n) cfilb       DMBOOL       (enum: 1)
(o) cs_alwd     DMBOOL       (enum: 1)
(p) ovfcfi      DMBOOL       (enum: 1)
(q) cfdarc      DMBOOL       (enum: 1)
        User and Compacted Tuple Layout     CFLT_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 0 |*********************************|          gkCFLT_G             |
   |---------------+---------------+---------------+---------------|
   |                           |   |               |               |
 4 |          annc_ri          | a |   ia_sim_act  |   ir_sim_act  |
```

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```
   |---------------+---------------+---------------+---------------|
   |               |           |   | | | | | | | | | | | | | | | |
 8 |   dont_ans_t  |  seq_act  | b |c|d|e|f|g|h|i|j|k|l|m|n|o|p|q|*|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )


    annc_ri     DMRTEIDX     (ushort: 14)
(a) mdnl_opt    DMMDNL_OPT   (enum: 2)
    ia_sim_act  DMCFSIM      (ushort: 8)
    ir_sim_act  DMCFSIM      (ushort: 8)
    dont_ans_t  DMUNS8       (ushort: 8)
    seq_act     DMCFSEQ      (ushort: 6)
(b) mdnl_rcf    DMMDNL_OPT   (enum: 2)
(c) bs_rg_ind   DMBOOL       (enum: 1)
(d) cfpf_digs   DMBOOL       (enum: 1)
(e) ffcf1       DMBOOL       (enum: 1)
(f) ffcf2       DMBOOL       (enum: 1)
(g) ffcf3       DMBOOL       (enum: 1)
(h) ffcf4       DMBOOL       (enum: 1)
(i) cfpf_codes  DMBOOL       (enum: 1)
(j) mdnl_enhan  DMBOOL       (enum: 1)
(k) mdnl_emsi   DMBOOL       (enum: 1)
(l) cfda_cw     DMBOOL       (enum: 1)
(m) cfimb       DMBOOL       (enum: 1)
(n) cfilb       DMBOOL       (enum: 1)
(o) cs_alwd     DMBOOL       (enum: 1)
(p) ovfcfi      DMBOOL       (enum: 1)
(q) cfdarc      DMBOOL       (enum: 1)
          Stored Tuple Layout   CFLT_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                          GK LINK FIELD                        |
   |---------------+---------------+---------------+---------------|
   |                           |   |               |               |
 4 |          annc_ri          | a |   ia_sim_act  |   ir_sim_act  |
   |---------------+---------------+---------------+---------------|
   |               |           |   | | | | | | | | | | | | | | | |
 8 |   dont_ans_t  |  seq_act  | b |c|d|e|f|g|h|i|j|k|l|m|n|o|p|q|*|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population rules for RLcflt_g

### Relation Description

There are no population rules for this relation.

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# CFLTM_R

## 1. Description

Call forward feature parameters on this logical termination port.

This is root storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 86400 |
| expected tuples in relation | 282 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTORAGE |
| foldtype | DBGC31 |
| density | 39 |

## 3. Field Layout

```
CFLTM_R     relid = 1625  DBSTORAGE  DBACC_HASH  DBPRAM    FG      NULL
     ltm_idx     DMLTM_IDX    (ulong: 16)     <--- key
     fwdlist     DMGK14       (ulong: 14)
 (a) ltm_type    DMLTM_TYPE   (enum: 1)     <--- key
     attlist     DMGK14       (ulong: 14)
     feat_id     DMFID        (ushort: 10)     <--- key
     lead_module  DMMODULE     (ushort: 8)     <--- key
         User, Compacted and Stored Tuple Layout    CFLTM_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                           | | |
  0 |            ltm_idx            |          fwdlist          |a|*|
    |---------------+---------------+---------------+---------------|
    |                           |   |                   |           |
  4 |          attlist          |***|      feat_id      |***********|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  8 |  lead_module  |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLcfltm_r

There are no population rules for this relation.

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# CFPF_LTM

## 1. Description

Call forwarding over private facilities (CFPF) feature parameters for this logical termination.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 46 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| density | 58 |
| corcable relation | DBYES |
| foldtype | DBGC31 |

## 3. Field Layout

```
CFPF_LTM    relid = 1096  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     ltm_idx     DMLTM_IDX    (ulong: 16)     <--- key
     feat_id     DMFID        (ushort: 10)     <--- key
 (a) ltm_type    DMLTM_TYPE   (enum: 1)     <--- key
     lead_module  DMMODULE     (ushort: 8)     <--- key
     acct_code   DMDC15       (struct)
         dig5        DMBCD        (ushort: 4)
         dig1        DMBCD        (ushort: 4)
         dig6        DMBCD        (ushort: 4)
         dig2        DMBCD        (ushort: 4)
         dig7        DMBCD        (ushort: 4)
         dig3        DMBCD        (ushort: 4)
         dig8        DMBCD        (ushort: 4)
         dig4        DMBCD        (ushort: 4)
         dig13       DMBCD        (ushort: 4)
         dig9        DMBCD        (ushort: 4)
         dig14       DMBCD        (ushort: 4)
         dig10       DMBCD        (ushort: 4)
         dig15       DMBCD        (ushort: 4)
         dig11       DMBCD        (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
         dig12       DMBCD        (ushort: 4)
     auth_code   DMDC15       (struct)
         dig5        DMBCD        (ushort: 4)
         dig1        DMBCD        (ushort: 4)
         dig6        DMBCD        (ushort: 4)
         dig2        DMBCD        (ushort: 4)
         dig7        DMBCD        (ushort: 4)
         dig3        DMBCD        (ushort: 4)
         dig8        DMBCD        (ushort: 4)
         dig4        DMBCD        (ushort: 4)
         dig13       DMBCD        (ushort: 4)
         dig9        DMBCD        (ushort: 4)
         dig14       DMBCD        (ushort: 4)
         dig10       DMBCD        (ushort: 4)
         dig15       DMBCD        (ushort: 4)
```

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```
        dig11       DMBCD        (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig12       DMBCD        (ushort: 4)
        User, Compacted and Stored Tuple Layout   CFPF_LTM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                   | |         |
  0 |            ltm_idx            |      feat_id      |a|*********|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  4 |  lead_module  |***********************************************|
    |===============+========== acct_code ==========+===============|
    |       |       |       |       |       |       |       |       |
  8 |  dig5 |  dig1 |  dig6 |  dig2 |  dig7 |  dig3 |  dig8 |  dig4 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
 12 | dig13 |  dig9 | dig14 | dig10 | dig15 | dig11 | digcnt| dig12 |
    |===============+========== auth_code ==========+===============|
    |       |       |       |       |       |       |       |       |
 16 |  dig5 |  dig1 |  dig6 |  dig2 |  dig7 |  dig3 |  dig8 |  dig4 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
 20 | dig13 |  dig9 | dig14 | dig10 | dig15 | dig11 | digcnt| dig12 |
    |===============+===============+===============+===============|
       ( 24 bytes )
```

## 4. Population Rules for RLcfpf_ltm

**Relation Description** Call forwarding over private facilities (CFPF) line parameter relation. Contains CFPF Authorization and Account Code Information. This is a corcable relation.

**Attribute: ltm_type**

**Fullname:** CFPF Logical Termination Type

**Attribute Description** One of the Keys is the Logical Termination Type

**Attribute: lead_module**

**Fullname:** CFPF Lead Module

**Attribute Description** One of the Keys is the Lead Module

**Attribute: ltm_idx**

**Fullname:** CFPF Logical Termination Index

**Attribute Description** One of the Keys is the Logical Termination Index

**Attribute: feat_id**

**Fullname:** CFPF Feature Identifier

**Attribute Description** One of the Keys is the Feature Identifier

**Attribute: acct_code**

**Fullname:** CFPF Account Code Digits

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**Attribute Description** This Attribute is used to Store CFPF Account Code Digits for the Collocated invocation of CFPF. This is a corcable attribute.

**Attribute: acct_code.dig[*]**

**Fullname:** CFPF Account Code Digit.

**Attribute Description** See usage description for attribute acct_code.

**Attribute: acct_code.digcnt**

**Fullname:** Number of valid Account Code digits

**Attribute Description** This attribute is used to keep track of the number of valid account code digits in the digit field.

**Attribute: auth_code**

**Fullname:** CFPF Authorization Code Digits

**Attribute Description** This Attribute is used to Store CFPF Authorization Code Digits for the Collocated Invocation of CFPF. This is a corcable attribute.

**Attribute: auth_code.dig[*]**

**Fullname:** CFPF Authorization Code Digit.

**Attribute Description** See usage description for attribute auth_code.

**Attribute: auth_code.digcnt**

**Fullname:** Number of valid Authorization Code Digits.

**Attribute Description** This attribute is used to keep track of the number of valid authorization code digits in the digit field.

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# CGA_G

## 1. Description

Carrier group alarm port name. This is a child storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4096 |
| expected tuples | 200 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTORAGE |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel GK-index relation | rlCGA_I |

## 3. Field Layout

```
CGA_G       relid = 2129  DBSTORAGE  DBACC_GK    DBPRAM    FP      NULL
     gkCGA_G     DMGK14       (ulong: 14)     <--- key, not stored
     cga_mem     DMMEMBER     (ushort)
     cga_scnpt   DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User and Compacted Tuple Layout  CGA_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkCGA_G              |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            cga_mem            |*******************************|
    |===============+========== cga_scnpt ==========+===============|
    |                               |                |              |
  8 |             member            |****************|     module   |
    |===============+===============+================+==============|
       ( 12 bytes )
     cga_mem     DMMEMBER     (ushort)
     cga_scnpt   DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
           Stored Tuple Layout    CGA_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                         GK LINK FIELD                         |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            cga_mem            |*******************************|
    |===============+========== cga_scnpt ==========+===============|
    |                               |                |              |
```

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```
  8 |              member             |***************|     module    |
    |===============+===============+===============+===============|
       ( 12 bytes )
```

## 4. Population Rules for RLcga_g

There are no population rules for this relation.

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# CGA_STAT

## 1. Description

In this relation, the carrier failure condition is to be reported, ignored, conditioned, and the carrier type is specified.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 7664 |
| expected tuples in relation | 15 |
| density | 11 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | DBcga_stat |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
CGA_STAT    relid = 9     DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     circuit     DMCGATRANS   (ushort) <--- key
     afac_id     DMUNS10      (ushort: 10)
     type        DMFACTYPE    (enum: 5)
 (a) spn         DMBOOL       (enum: 1) <--- key
     name        DMALMNAME    (array [ 25 ] of char )
 (b) action      DMACTION     (enum: 2)
 (c) verbose     DMBOOL       (enum: 1)
 (d) detail      DMBOOL       (enum: 1)
 (e) cga_sp1     DMBOOL       (enum: 1)
 (f) cga_sp2     DMBOOL       (enum: 1)
 (g) cga_sp3     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   CGA_STAT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                   |         | |
  0 |            circuit            |      afac_id      |   type  |a|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             name                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             name                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                             name                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                             name                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                             name                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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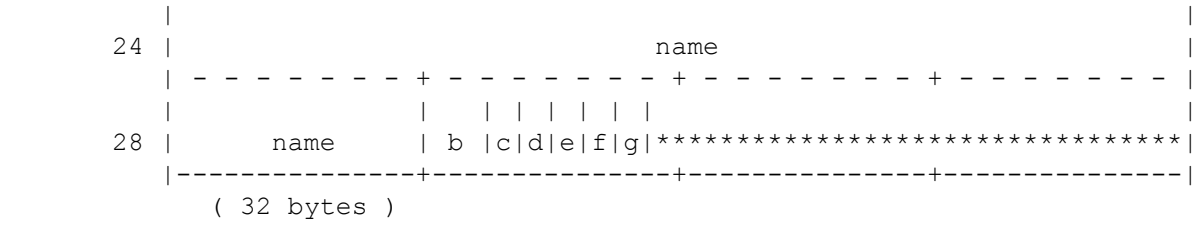


## 4. Population rules for RLcga_stat

### Relation Description

Carrier failure condition is to be reported, ignored, conditioned, also carrier type is specified
This relation resides on the switching module (SM) and contains information for each metallic scan unit (MSU) scan point, digital facility interface (DFI) facility, digital networking unit on SONET (DNU_S) facility, and integrated digital carrier unit (IDCU) facility (IFAC) that is alarmed. A tuple must be populated for each DFI facility and each IFAC that is alarmed. A tuple must be populated for each MSU scan point that is used to alarm an item or collection of equipment.
There is one tuple for each Digital Networking Unit-SONET (DNU_S) facility. The DNU-S facilities that are alarmed are:

- OC-3 SONET Termination Equipment (OC3STE) Facility,
- STSX-1 SONET Termination Equipment (EC1STE) Facility,
- Synchronous Transport Signal-1 (STS-1) Facility,
- Virtual Tributary 1.5 (VT1.5) Facility,
- Digital Signal Level 1 (DS1) Facility.

**Attribute:**
circuit
**Fullname:**
Circuit that has issued alarm
**Attribute Description:**
In the case of populating for an MSU scan point this attribute will be the port name of the scan point.
In the case of populating a DFI facility, this attribute will be the internal circuit name of the facility, which is also its key to the CKTDATA.
In the case of populating a remote integrated services line unit (RISLU) DFI facility, this attribute will be the internal circuit name of the RISLU DFI common board, which is also its key to the CKTDATA relation, and is formed as follows:
CKTDATA relation.
In the case of populating an IFAC, this attribute will be the internal circuit name of the IFAC, which is also its key in RLcktdata. The IFAC circuit name is formed as follows:
IFAC, which is also its key in RLcktdata.
For DNU-S facilities, this is the internal circuit name of the facility, which is also the key to the RLcktdata relation.

**Attribute:**

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spn

**Fullname:**

indicates if key is a scan point port

**Attribute Description:**

spn set to DBYES indicates that the 'circuit' is actually a scan point port name and is not a DFI circuit name. If spn is set to DBNO then 'circuit' is a DFI circuit name.

**Attribute:**

action

**Fullname:**

Indicates what to do when alarm occurs

**Attribute Description:**

Action specifies a particular action to be performed when the carrier reports an alarm.

TMCGIGNORE - if no action of any type is to be taken if the carrier fails.

TMREPORT - A message will be printed at the Master Control Center (MCC) when the carrier fails. No port conditioning is to be performed. This option is what is usually used for MSU carrier group alarm (CGA) scan points. This treatment would be most satisfactory for lines.

TMCONDITION - A message will be printed at the MCC when the carrier fails, and port conditioning is performed on the related ports. This is used for DFIs, IFACs, and ANCB, DTCB, MJOPEN, MNOPEN, MJCLOSED, and MNCLOSED MSU scan points. In the case of MSU scan points, a tuple in RLcgatrans must be populated to indicate which port(s) must be conditioned in association with this point. An action of TMCONDITION for MSU scan points is not allowed unless an RLcgatrans tuple exists for the MSU scan point.

**Attribute:**

type

**Fullname:**

Type of carrier facility

**Attribute Description:**

The type field describes the type of carrier system.

TM_ANCB - Analog carrier system (MSU scan pt)

TM_DTCB - Digital carrier system (MSU scan pt)

TM_PG - Non-integrated pair-gain/SLC(R) (MSU scan pt)

TM_SLC - Universal/integrated SLC(R). (MSU scan pt)

TM_MINGA - Minor group alerting circuit (MSU scan pt)

TM_MAJGA - Major group alerting circuit (MSU scan pt)

TM_DFI - DFI-1 trunk facility

TM_HDFI - DFI-1 host facility

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```
TM_RDFI         - DFI-1 remote facility
TM_CDFI         - DFI-1 communication facility
TM_SLCDFI       - SLC(R) DFI Facility
TM_RISLUDFI     - RISLU DFI Circuit board
TMDFI2TFAC      - DFI-2 Trunk Facility
TMDFI2HFAC      - DFI-2 Host Facility
TMDFI2RFAC      - DFI-2 Remote Facility
TMDFI2CFAC      - DFI-2 Communications Facility
TM_IFAC         - IDCU Facility
The following four types indicate the scan point is being
used by the service providers for a miscellaneous alarm.
TM_MJOPEN       - Major alarm, normal state open
TM_MJCLOS       - Major alarm, normal state closed
TM_MNOPEN       - Minor alarm, normal state open
TM_MNCLOS       - Minor alarm, normal state closed
The following types are for DNU-S facilities:
TM_OC3FAC  - OC-3 SONET Termination Equipment (OC3STE) Facility
TM_STEFAC  - STSX-1 SONET Termination Equipment (EC1STE) Facility
TM_STS1FAC - Synchronous Transport Signal-1 (STS-1) Facility
TM_VT1FAC  - Virtual Tributary 1.5 (VT1.5) Facility
TM_DS1SFAC - Digital Signal Level 1 (DS1) Facility
The following are for RAIU.
TM_TFACRAIU  - DFI-2 FAC that hosts an RAIU
TM_DNURAIU   - DNU DS1SFAC that hosts an RAIU
The Following are for RSM on DNU-S.
TM_DNUHSM - DNU DS1SFAC that hosts an RSM
```

**Attribute:**

verbose

**Fullname:**

Indicates verbose/non-verbose mode of conditioning for type = [DFI|ANCB|DTCB|IFAC] and action = TMCONDITION

**Attribute Description:**

This field indicates the CGA conditioning mode of an MSU scan point, DFI, or IFAC. Verbose mode conditioning means that for each port in a carrier group, when a port is removed or restored to service by CGA an individual user message will be printed. It is a boolean and should be populated with BNO for normal conditioning and DBYES for verbose conditioning. Verbose mode conditioning only makes sense for units associated with ports (type = ANCB, DTCB, DFI, or IFAC) that are to be conditioned (action = TMCONDITION). For all other situations verbose should be DBNO (default). Due to the large number of DNU-S facilities, verbose is always DBNO for DNU-S facilities.

```
DBYES   - verbose mode conditioning by CGA:
          action=TMCONDITION, type =[ANCB|DTCB|DFI|IFAC]
DBNO    - (default) normal action by CGA
```

**Attribute:**

name

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**Fullname:**
The name associated with the alarm
**Attribute Description:**
This attribute is an optional field that can be assigned by the user. The field size is big enough for the common CLFI code or a name that fits within 25 characters.
The population rules for this field are:
anything you care to call the facility (25 chars).
RC must add a null (hex 00 or ) at the end of the string that is typed in for the name field if the field is less than 25 characters long.

**Attribute:**
afac_id
**Fullname:**
Advanced mobile phone service (AMPS) facility identifier
**Attribute Description:**
Unique AMPS facility identification number.

**Attribute:**
detail
**Fullname:**
should detailed CGA event reporting be allowed?
**Attribute Description:**
This flag indicates whether detailed CGA event reporting will occur.

**Attribute:**
cga_sp1
**Fullname:**
A spare bit for future use.
**Attribute Description:**
A spare bit for future use.

**Attribute:**
cga_sp2
**Fullname:**
A spare bit for future use.
**Attribute Description:**
A spare bit for future use.

**Attribute:**
cga_sp3
**Fullname:**
A spare bit for future use.
**Attribute Description:**
A spare bit for future use.

**Defines:**
"db/DMvpidb.h"

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# CGA_TRANS

## 1. Description

Translate scan point alarm to ports affected by alarm.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | CGA |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |

## 3. Field Layout

```
CGA_TRANS   relid = 10    DBSTATIC   DBACC_HASH  DBPRAM    LP      CGA
     scanpt      DMGPORT      (struct)     <--- key
     member      DMPORT       (ushort)
     module      DMMODULE     (ushort: 8)
     member      DMMEMBER     (ushort)     <--- key
     port        DMGPORT      (struct)
     member      DMPORT       (ushort)
     module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout  CGA_TRANS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+===========  scanpt ===========+===============|
    |                                 |               |               |
  0 |              member             |***************|     module    |
    |===============+===============+===============+===============|
    |                                 |                               |
  4 |              member             |*******************************|
    |===============+============  port ============+===============|
    |                                 |               |               |
  8 |              member             |***************|     module    |
    |===============+===============+===============+===============|
       ( 12 bytes )
```

## 4. Population Rules for RLcga_trans

**Relation Description**

Translate Scan pionts.

Translate scan point alarm to ports affected by alarm

This relation is used only if port conditioning is desired for a change of state on a MSU scan point. (RLcga_stat's field 'action' is set to TMCONDITION for a particular scan point.)

**Attribute: scanpt**

**Fullname:** Scan pionts.

**Attribute Description** This attribute is divided into sub-attributes scanpt.member and

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scanpt.module. Module refers the Interface module number 1-200. The member refers to the MSU scan point port name.

**Attribute: scanpt.member**

**Fullname:** Member.

**Attribute Description** Scan Point member.

**Attribute: scanpt.module**

**Fullname:** Module.

**Attribute Description** Scan piont Module.

**Attribute: member**

**Fullname:** Member number.

**Attribute Description** This attribute refers to a member of a logical port group.

**Attribute: port**

**Fullname:** Port.

**Attribute Description** This attribute is divided into sub-attributes port.member and port.module. Member is the port name of a line of trunk. Module refers to the interface module number.

The port cannot be a Digital Subscriber Line port (servclass=FC_ISDN).

**Attribute: port.member**

**Fullname:** Member.

**Attribute Description** Port member.

**Attribute: port.module**

**Fullname:** Module.

**Attribute Description** Port module.

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# CGAREL

## 1. Description

This relation is used to store relationships between circuits for circuits which are CGA sources. It is currently used only for DNU facility circuits. Attributes which are not populated will be set to GLNULCKT. The src_map field in RLcgackt keys to tuples in this relation. There will be one tuple in this relation for every unique RLcgackt "src_map" value. These are currently only DNU VT and STE FACs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| expected number of tuples | 168 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | TMcgarel |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
CGAREL      relid = 2221  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     ckt          DMCIRCUIT    (ushort) <--- key
     lvl1         DMCIRCUIT    (ushort)
     lvl2         DMCIRCUIT    (ushort)
     lvl3         DMCIRCUIT    (ushort)
     lvl4         DMCIRCUIT    (ushort)
     lvl5         DMCIRCUIT    (ushort)
         User, Compacted and Stored Tuple Layout CGAREL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |               ckt             |               lvl1            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |               lvl2            |               lvl3            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |               lvl4            |               lvl5            |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population rules for RLcgarel

### Relation Description

```
        CGA relatives
        This relation resides on the switching module (SM) and contains
        information about the structure of hierarchical facilities, as
        needed for CGA processing.
        Examples of hierarchical facilities are the
        OC-3 SONET Termination Equipment Facility (OC3STE),
        STSX-1 SONET Termination Equipment Facility (EC1STE),
```

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Synchronous Transport Signal-1 (STS-1) Facility,
Virtual Tributary 1.5 (VT1.5) Facility,
Digital Signal Level 1 (DS1) Facility.
One tuple must be populated for each family of facilities.
For a DNU-S Data Group using STSX-1 interface, there are 3 types of families:
(1) An EC1STE and its subtending STS, with no subtending operational VT1's.
(2) An EC1STE, its subtending STS, and its subtending VT1 and DS1S which are on the master VPIDB.
(3) A VT1 and its subtending DS1S which are not on the master VPIDB.
For a DNU-S Data Group using OC-3 interface, there are 5 types of families:
(1) Two OC3 STE with no subtending STS.
(2) Two OC3 STE with one, two, or three subtending STS. Each STS does not have any subtending operational VT1.
(3) Two OC3 STE with one, two, or three subtending STS. Some STS have a subtending operational VT1 that is the master VPIDB.
(4) Two OC3 STE with one, two, or three subtending STS. All STS have a subtending operational VT1 that is the master VPIDB.
(5) A VT1 and its subtending DS1S which are not on the master VPIDB.

**Attribute:**
ckt
**Fullname:**
Circuit id of a hierarchical facility
**Attribute Description:**
This attribute is the internal circuit name of a hierarchical facility. This will be the circuit name of a VT1 of the family if the VT1 is operational; otherwise, it will be the circuit name of the STS-1, EC1STE, or OC3STE (side 0). This circuit name is also the key to several other relations. These include RLcktdata, RLcga_stat, RLfac_prov, etc.

**Attribute:**
lvl1
**Fullname:**
Level-1 internal circuit identifier for a hierarchical facility.
**Attribute Description:**
Circuit id of the lowest level of the hierarchical facility associated with the tuple key. In the case of partial population of a hierarchical facility, "GLNULCKT" be entered in this field.
For DNU-S facilities:
If the key is an EC1STE, then "lvl1" will be GLNULCKT.
If the key is an OC3STE, then "lvl1" will be one of the following:
- GLNULCKT (if a subtending STS-1 facility #1 is not

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provisioned for the OC-3 interface).
- Subtending STS-1 facility #1 of that OC-3 interface if this STS-1 has no subtending operational VT1.5
- VT1FAC associated with the master VPIDB (if an operational VT1.5 facility is provisioned on STS-1 facility #1).

If the key is a STSFAC, then "lvl1" will be GLNULCKT.
If the key is a VT1FAC, and there is a DS1SFAC populated for the VT's hierarchical facility, then "lvl1" will be the internal circuit name of the DS1SFAC that is the child of the VT1FAC.
If the key is a VT1FAC, and there is no DS1SFAC populated for the VT's hierarchical facility, then "GLNULCKT" is entered for "lvl1".
This can not currently happen.

**Attribute:**
lvl2
**Fullname:**
Level-2 internal circuit identifier for a hierarchical facility.
**Attribute Description:**
Circuit id of the 2nd-lowest level of the hierarchical facility associated with the tuple key. In the case of partial population of a hierarchical facility, "GLNULCKT" may be entered in this field.
For DNU-S facilities:
If the key is an EC1STE, then "lvl2" will be GLNULCKT.
If the key is an OC3STE, then "lvl2" will be one of the following:
- GLNULCKT (if a subtending STS-1 facility #2 is not provisioned for the OC-3 interface).
- Subtending STS-1 facility #2 of that OC-3 interface if this STS-1 has no subtending operational VT1.5
- VT1FAC associated with the master VPIDB (if an operational VT1.5 facility is provisioned on STS-1 facility #2).

If the key is an STSFAC, then "lvl2" will be GLNULCKT.
If the key is a VT1FAC, then "lvl2" will be the same as the key to the tuple.

**Attribute:**
lvl3
**Fullname:**
Level-3 internal circuit identifier for a hierarchical facility.
**Attribute Description:**
Circuit id of the 3rd-lowest level of the hierarchical facility associated with the tuple key. In the case of partial population of a hierarchical facility, "GLNULCKT" may be entered in this field.

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For DNU-S facilities:
If the key is an EC1STE, and there is an STS (which does not have a master vpidb) is populated as a child of the key, then "lvl3" will be the internal circuit name of the STSFAC that is the child of the EC1STE.
If the key is an EC1STE and no child STS is populated for the EC1STE, then "GLNULCKT" is entered for "lvl3".
If the key is an OC3STE, then "lvl3" will be one of the following:
- GLNULCKT (if a subtending STS-1 facility #3 is not provisioned for the OC-3 interface).
- Subtending STS-1 facility #3 of that OC-3 interface if this STS-1 has no subtending operational VT1.5
- VT1FAC associated with the master VPIDB (if an operational VT1.5 facility is provisioned on STS-1 facility #3).

If the key is an STSFAC, then "lvl3" will be the same as the key to the tuple.
If the key is a VT1, and this VT1 is associated with the master_vpidb of the parent STS, then "lvl3" is the interal circuit name of the STS parent of the VT1.
If the key is a VT1, and this VT1 is not associated with the master_vpidb of the parent STS, then "lvl3" is "GLNULCKT".

**Attribute:**
lvl4
**Fullname:**
Level-4 internal circuit identifier for a hierarchical facility.
**Attribute Description:**
Circuit id of the 4th-lowest level of the hierarchical facility associated with the tuple key.
For DNU-S facilities:
If the key is an EC1STE, then "lvl4" is equal to the key.
If the key is an OC3STE, then "lvl4" is equal to the key.
If the key is an STSFAC for a STS-1 facility that is subtending to an OC-3 interface and the STS does NOT have a master vpidb, then "lvl4" will be the internal circuit name of the OC-3 facility (side 0).
If the key is a VT1FAC for a VT1.5 facility that is subtending to an OC-3 interface:
If this VT1FAC is associated with the master_vpidb of the parent STS-1, then "lvl4" is the internal circuit name of the parent EC1STE or the internal circuit name of the parent OC3STE (side 0).
If this VT1FAC is NOT associated with the master_vpidb of the parent STS-1, then "lvl4" is "GLNULCKT".

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**Attribute:**
lvl5
**Fullname:**
Level-5 internal circuit identifier for a
hierarchical facility.
**Attribute Description:**
Circuit id of the 5th-lowest level of the hierarchical
facility associated with the tuple key.
For DNU-S facilities:
If the key is an EC1STE, then "lvl5" will be GLNULCKT.
If the key is an OC3STE, then "lvl5" will be the internal
circuit name of the OC-3 facility (side 1).
If the key is an STSFAC for a STS-1 facility that is
subtending to an OC-3 interface, then "lvl5" will be
the internal circuit name of the OC-3 facility (side 1).
If the key is a VT1FAC for a VT1.5 facility that is
subtending to an OC-3 interface:
If this VT1FAC is associated with the master_vpidb
of the parent STS-1, then "lvl5" is the internal
circuit name of the parent OC3STE (side 1).
If this VT1FAC is NOT associated with the master_vpidb
of the parent STS-1, then "lvl5" is "GLNULCKT".
If the key is a VT1FAC for a VT1.5 facility that is subtending
to an EC1STE, then "lvl5" is GLNULCKT.

**Defines:**
"db/DMcircuit.h",
"db/DMvpidb.h"

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# CGATYPE

## 1. Description

Relation to determine carrier facility type.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | CGA |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
CGATYPE     relid = 120   DBSTATIC   DBACC_HASH  DBPRAM    LP      CGA
     scanpt      DMGPORT      (struct)     <--- key
     member      DMPORT       (ushort)
     module      DMMODULE     (ushort: 8)
     type        DMFACTYPE    (enum: 5)
         User, Compacted and Stored Tuple Layout    CGATYPE
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+===========  scanpt ===========+===============|
    |                                 |               |               |
  0 |              member             |***************|     module    |
    |===============+===============+===============+===============|
    |          |                                                      |
  4 |   type   |******************************************************|
    |----------------+--------------+--------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLcgatype

**Relation Description** Relation to determine carrier facility type. This relation is used only if port conditioning is desired for a change of state on a MSU scan point. (RLcga_stat's field action is set to TMCONDITION for a particular scan point.)

**Attribute: scanpt**

**Fullname:** circuit identification
**Attribute Description** This attribute is divided into sub-attributes scanpt.member and scanpt.module. Module refers the Interface module number 1-200. The member refers to the MSU scan point port name.

**Attribute: scanpt.member**

**Fullname:** MSU scan point port name
**Attribute Description** Indicates the MSU scan point port name.

**Attribute: scanpt.module**

**Fullname:** the interface module number
**Attribute Description** Indicates the interface module number.

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**Attribute: type** **Fullname:** type of facilities
**Attribute Description** Indicates the type of facilities.

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# CGPN_LTM

## 1. Description

Calling party DN to LTM index. This static relation will be used to map all DNs which appear on a Basic *EKTS*® terminal to the LTM index and lead module.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | FCcgpn_ltm |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
CGPN_LTM    relid = 1834  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     lport       DMLPORT      (ushort: 16)     <--- key
     ltm_idxi    DMLTM_IDX    (ulong: 16)
     lead_module  DMMODULE     (ushort: 8)
     cgpn        DMDN7        (struct)     <--- key, compacted
 (a)     dig7cnt     DMDIG7CNT    (uchar: 3)
         dn7         DMDIG7       (array [ 7 ] of char )
            User Tuple Layout      CGPN_LTM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |              lport             |             ltm_idxi          |
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  4 |  lead_module  |***********************************************|
    |===============+============  cgpn ============+===============|
    |      |        |                                               |
  8 |  a   |*********|                     dn7                       |
    | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                               dn7                             |
    |===============+===============+===============+===============|
       ( 16 bytes )
     lport       DMLPORT      (ushort: 16)     <--- key
     ltm_idxi    DMLTM_IDX    (ulong: 16)
     lead_module  DMMODULE     (ushort: 8)
     cgpn        DMCDN7       (struct)     <--- key, compacted
 (a)     dig7cnt     DMDIG7CNT    (uchar: 3)
         dig1        DMUNS4       (ushort: 4)
         dig2        DMUNS4       (ushort: 4)
         dig3        DMUNS4       (ushort: 4)
         dig4        DMUNS4       (ushort: 4)
         dig5        DMUNS4       (ushort: 4)
```

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```
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
         Compacted Tuple Layout   CGPN_LTM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |              lport            |            ltm_idxi           |
   |---------------+---------------+---------------+---------------|
   |               |                                               |
 4 |  lead_module  |***********************************************|
   |===============+============  cgpn ============+===============|
   |     | |       |       |       |       |       |       |       |
 8 |  a  |*|  dig1 |  dig2 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |
   |===============+===============+===============+===============|
   |                                                               |
12 |***************************************************************|
   |---------------+---------------+---------------+---------------|
      ( 16 bytes )
    lport       DMLPORT      (ushort: 16)     <--- key
    ltm_idxi    DMLTM_IDX    (ulong: 16)
    lead_module  DMMODULE     (ushort: 8)
    cgpn        DMCDN7       (struct)     <--- key, compacted
(a)     dig7cnt     DMDIG7CNT    (uchar: 3)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
          Stored Tuple Layout     CGPN_LTM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |              lport            |            ltm_idxi           |
   |---------------+---------------+---------------+---------------|
   |               |                                               |
 4 |  lead_module  |***********************************************|
   |===============+============  cgpn ============+===============|
   |     | |       |       |       |       |       |       |       |
 8 |  a  |*|  dig1 |  dig2 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |
   |===============+===============+===============+===============|
      ( 12 bytes )
```

## 4. Population Rules for RLcgpn_ltm

**Relation Description** Calling party number to LTM index
Provides calling party number conversion to LTM index and module, to determine terminal location of a DN for DN's appearing on Basic *EKTS*® terminals. There is one tuple in this relation for every appearance of a DN on a Basic *EKTS*® terminal.

**Attribute: lport**

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**Fullname:** logical port.

**Attribute Description** Logical port number of the terminal associated with the BRI port. Must have an entry in RLis_term with this lport.

**Attribute: cgpn**

**Fullname:** calling party number.

**Attribute Description** The DN on a terminal which originated the call. The DN may be a member of a MLHG.

**Attribute: cgpn.dig7cnt**

**Fullname:** Number of digits in the Directory Number

**Attribute Description** The Number of Digits in the Calling Party Number

**Attribute: cgpn.dn7**

**Fullname:** 7 digit Directory Number

**Attribute Description** 7 digit Directory Number of the Calling Party. The 7 digits may only contain digits 0 through 9.

**Attribute: ltm_idxi**

**Fullname:** Logical termination index.

**Attribute Description** Logical termination index.

**Attribute: lead_module**

**Fullname:** lead module.

**Attribute Description** Lead module for the ltm_idxi associated with this call appearance.

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# CHGTBL

## 1. Description

Charge table to determine number of strokes.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |

## 3. Field Layout

```
CHGTBL      relid = 136   DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     chrgtabl_x  DMSHORT      (short)     <--- key
     init_time   DMSHORT      (short)
     init_stroke  DMSHORT      (short)
     ovr_time    DMSHORT      (short)
     ovr_stroke  DMSHORT      (short)
 (a) table_name  DMCHGRATE    (enum: 2)     <--- key
         User, Compacted and Stored Tuple Layout CHGTBL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |           chrgtabl_x          |           init_time           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |          init_stroke          |            ovr_time           |
    |---------------+---------------+---------------+---------------|
    |                               |   |                           |
  8 |           ovr_stroke          | a |***************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLchgtbl

**Relation Description** Charge table to determine number of strokes. The charge table is used to peg message register counts (that is hotmot) that will be eventually pegged by a system process that actually increments the count to the port on the MSU.

This relation is used as a buffer for charge table counters. Whenever a message register (dist point) needs updating, this buffer will be read by the GLPGMSU system process and the appropriate ports on the MSU will be stroked (incremented)

**Attribute: chrgtabl_x**

**Fullname:** call type table

**Attribute Description** Call type table. Taken from CHRGIDXEXP relation attribute 'chrgtabl_x'. All MBI call types which use the Hotel/Motel message register feature, should have a number assigned in 'chrgtabl_x' attribute.

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**Attribute: table_name**

**Fullname:** identifies the charge table name

**Attribute Description** Set table name to name for hotmot call in feature data block located in the pcbla.

**Attribute: init_time**

**Fullname:** initial time period duration

**Attribute Description** Initial period of time for which a call is charged a fixed number of 'strokes'. Initial time period is given in minutes.

**Attribute: init_stroke**

**Fullname:** initial time period strokes

**Attribute Description** If 'init_stroke' is a zero value and 'ovr_stroke' is non-zero, the message register will not be accessed. However, a message register must be assigned.
If BOTH 'unit_stroke' and 'ovr_stroke' are populated as zero, the message register need not be assigned.

**Attribute: ovr_time**

**Fullname:** over time period duration

**Attribute Description** Incremental period of time for which a call is charged 'strokes' beyond the initial period of time. Over time period given in minutes.

**Attribute: ovr_stroke**

**Fullname:** over time period strokes

**Attribute Description** Over time period strokes. This is associated with the billing of over time units (strokes). If 'ovr_stroke' is a zero value and 'init_stroke' is non-zero, the message register will not be accessed. However, the message register must still be assigned. If BOTH 'init_stroke' and 'ovr_stroke' are populated as zero, the message register need not be assigned.

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# CHKLST

## 1. Description

Choke list record specification.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
CHKLST      relid = 1101  DBSTATIC   DBACC_LIN   DBPRAM    FR      NULL
 (a) dummy_key   DMBOOL       (enum: 1)     <--- key
     chkpad      DMCHKPAD     (ulong: 15)
     ids_in_use  DMCHKCNT     (ushort)
     chk_id1     DMCHOKE      (struct)
         chkid       DMCHKID      (array [ 10 ] of char )
         chkcnt      DMCHKCNT     (ushort)
     chk_id2     DMCHOKE      (struct)
         chkid       DMCHKID      (array [ 10 ] of char )
         chkcnt      DMCHKCNT     (ushort)
     chk_id3     DMCHOKE      (struct)
         chkid       DMCHKID      (array [ 10 ] of char )
         chkcnt      DMCHKCNT     (ushort)
     chk_id4     DMCHOKE      (struct)
         chkid       DMCHKID      (array [ 10 ] of char )
         chkcnt      DMCHKCNT     (ushort)
     chk_id5     DMCHOKE      (struct)
         chkid       DMCHKID      (array [ 10 ] of char )
         chkcnt      DMCHKCNT     (ushort)
     chk_id6     DMCHOKE      (struct)
         chkid       DMCHKID      (array [ 10 ] of char )
         chkcnt      DMCHKCNT     (ushort)
     chk_id7     DMCHOKE      (struct)
         chkid       DMCHKID      (array [ 10 ] of char )
         chkcnt      DMCHKCNT     (ushort)
     chk_id8     DMCHOKE      (struct)
         chkid       DMCHKID      (array [ 10 ] of char )
         chkcnt      DMCHKCNT     (ushort)
     chk_id9     DMCHOKE      (struct)
         chkid       DMCHKID      (array [ 10 ] of char )
         chkcnt      DMCHKCNT     (ushort)
     chk_id10    DMCHOKE      (struct)
         chkid       DMCHKID      (array [ 10 ] of char )
         chkcnt      DMCHKCNT     (ushort)
     chk_id11    DMCHOKE      (struct)
         chkid       DMCHKID      (array [ 10 ] of char )
```

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```
        chkcnt      DMCHKCNT     (ushort)
    chk_id12    DMCHOKE      (struct)
        chkid       DMCHKID      (array [ 10 ] of char )
        chkcnt      DMCHKCNT     (ushort)
    chk_id13    DMCHOKE      (struct)
        chkid       DMCHKID      (array [ 10 ] of char )
        chkcnt      DMCHKCNT     (ushort)
    chk_id14    DMCHOKE      (struct)
        chkid       DMCHKID      (array [ 10 ] of char )
        chkcnt      DMCHKCNT     (ushort)
    chk_id15    DMCHOKE      (struct)
        chkid       DMCHKID      (array [ 10 ] of char )
        chkcnt      DMCHKCNT     (ushort)
    chk_id16    DMCHOKE      (struct)
        chkid       DMCHKID      (array [ 10 ] of char )
        chkcnt      DMCHKCNT     (ushort)
        User, Compacted and Stored Tuple Layout CHKLST
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   | |                             |                               |
 0 |a|            chkpad           |           ids_in_use          |
   |===============+=========== chk_id1 ===========+===============|
   |                                                               |
 4 |                             chkid                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 8 |                             chkid                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
12 |             chkid             |             chkcnt            |
   |===============+=========== chk_id2 ===========+===============|
   |                                                               |
16 |                             chkid                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
20 |                             chkid                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
24 |             chkid             |             chkcnt            |
   |===============+=========== chk_id3 ===========+===============|
   |                                                               |
28 |                             chkid                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
32 |                             chkid                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
36 |             chkid             |             chkcnt            |
   |===============+=========== chk_id4 ===========+===============|
   |                                                               |
40 |                             chkid                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
```

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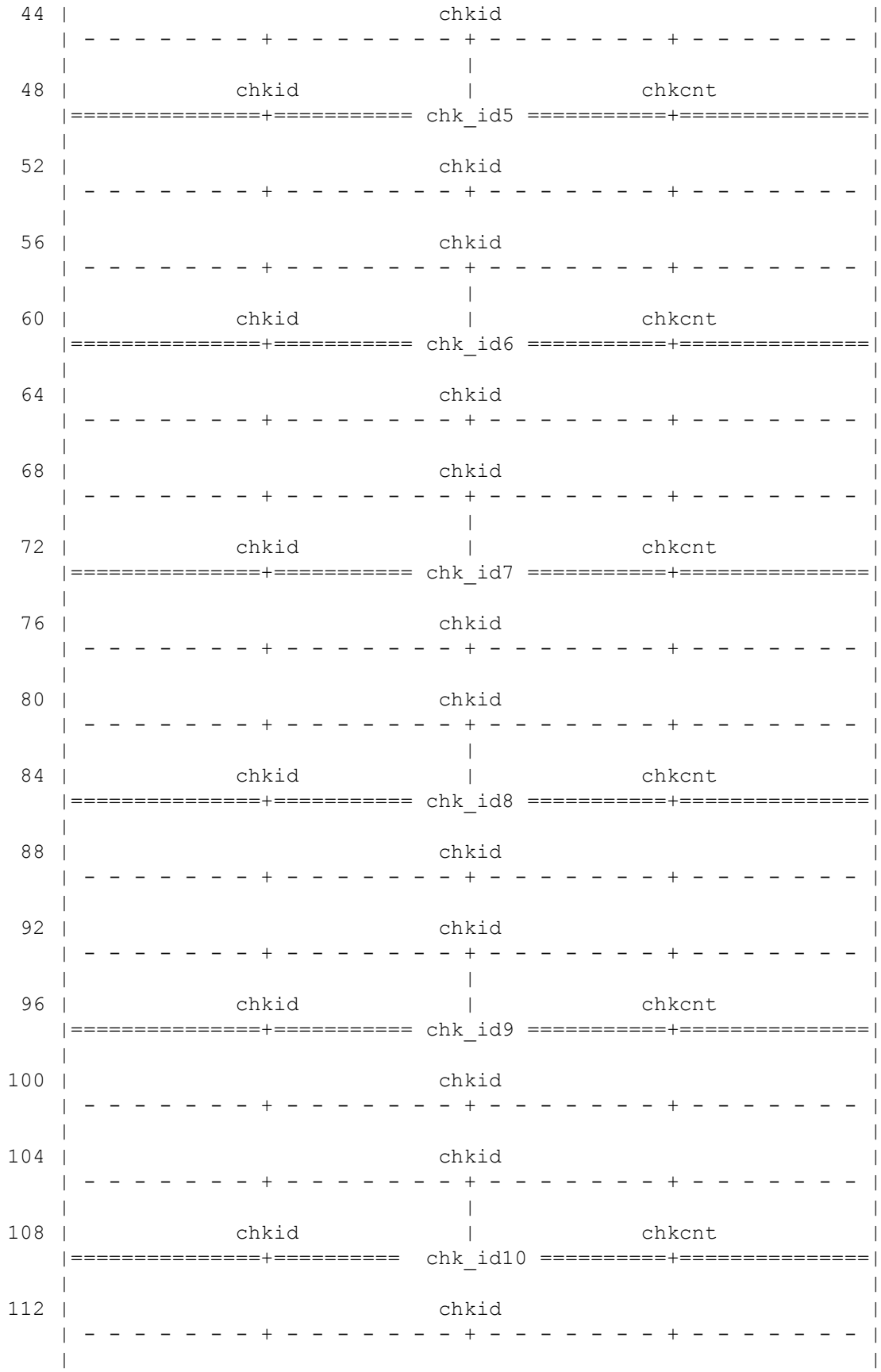


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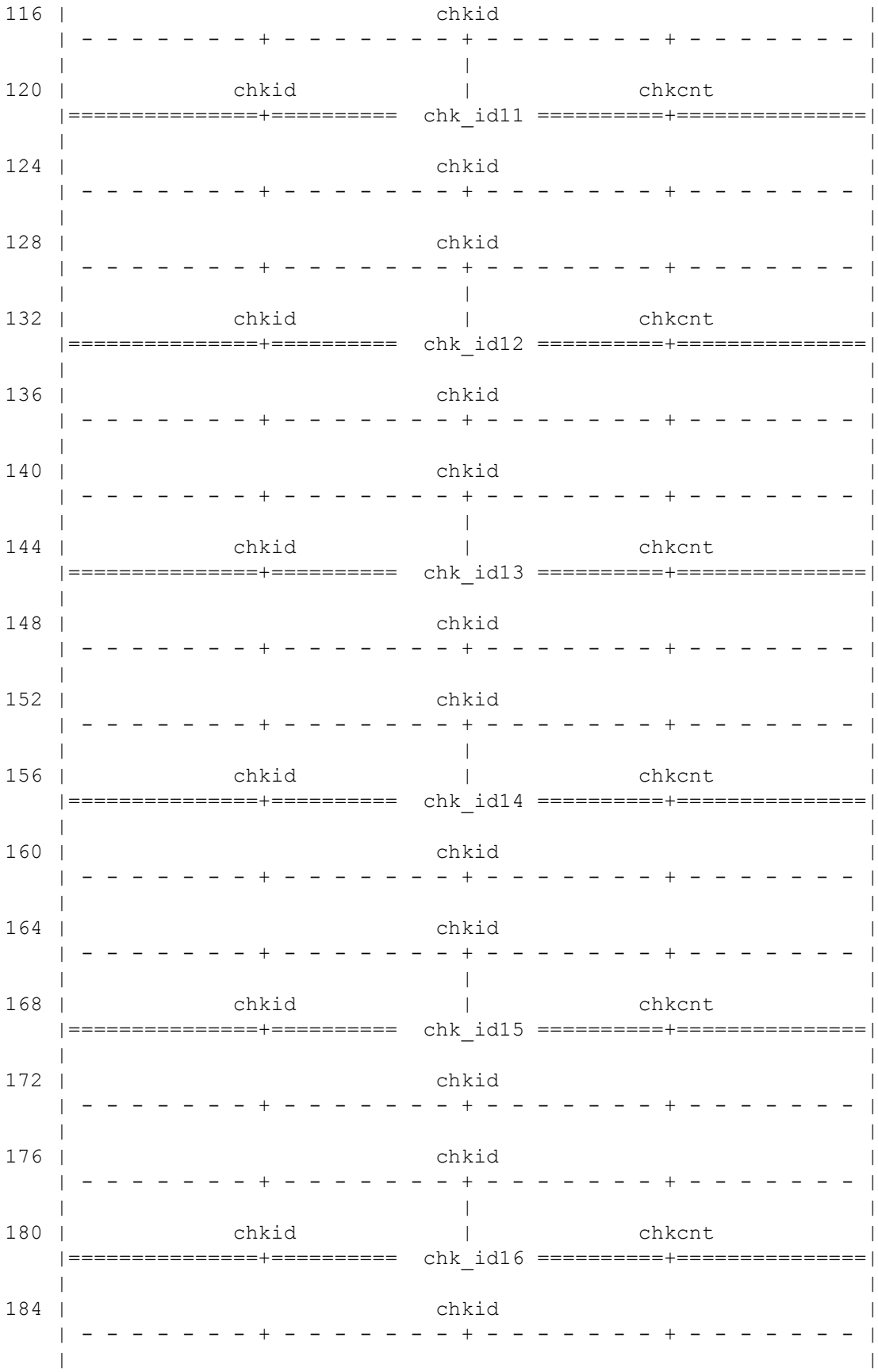


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```
188 |                             chkid                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                               |                               |
192 |             chkid             |             chkcnt            |
    |===============+===============+===============+===============|
       ( 196 bytes )
(a)     dummy_key   .0fake       (enum)
        chkpad      .2.fake      (ulong: 15)
        ids_in_use  unsigned short (ushort)
        chk_id      .3.fake      (array [ 16 ] of .1fake )
               chkid       .0.fake      (array [ 10 ] of char )
               chkcnt      unsigned short (ushort)

         Structure Layout      alCHKLST
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | |                             |                               |
  0 |a|             chkpad          |            ids_in_u           |
    |===============+========== chk_id[0] ==========+===============|
    |                                                               |
  4 |                             chkid                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
  8 |                             chkid                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                               |                               |
 12 |             chkid             |             chkcnt            |
    |===============+========== chk_id[1] ==========+===============|
    |                                                               |
 16 |                             chkid                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 20 |                             chkid                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                               |                               |
 24 |             chkid             |             chkcnt            |
    |===============+========== chk_id[2] ==========+===============|
    |                                                               |
 28 |                             chkid                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 32 |                             chkid                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                               |                               |
 36 |             chkid             |             chkcnt            |
    |===============+========== chk_id[3] ==========+===============|
    |                                                               |
 40 |                             chkid                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 44 |                             chkid                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                               |                               |
```

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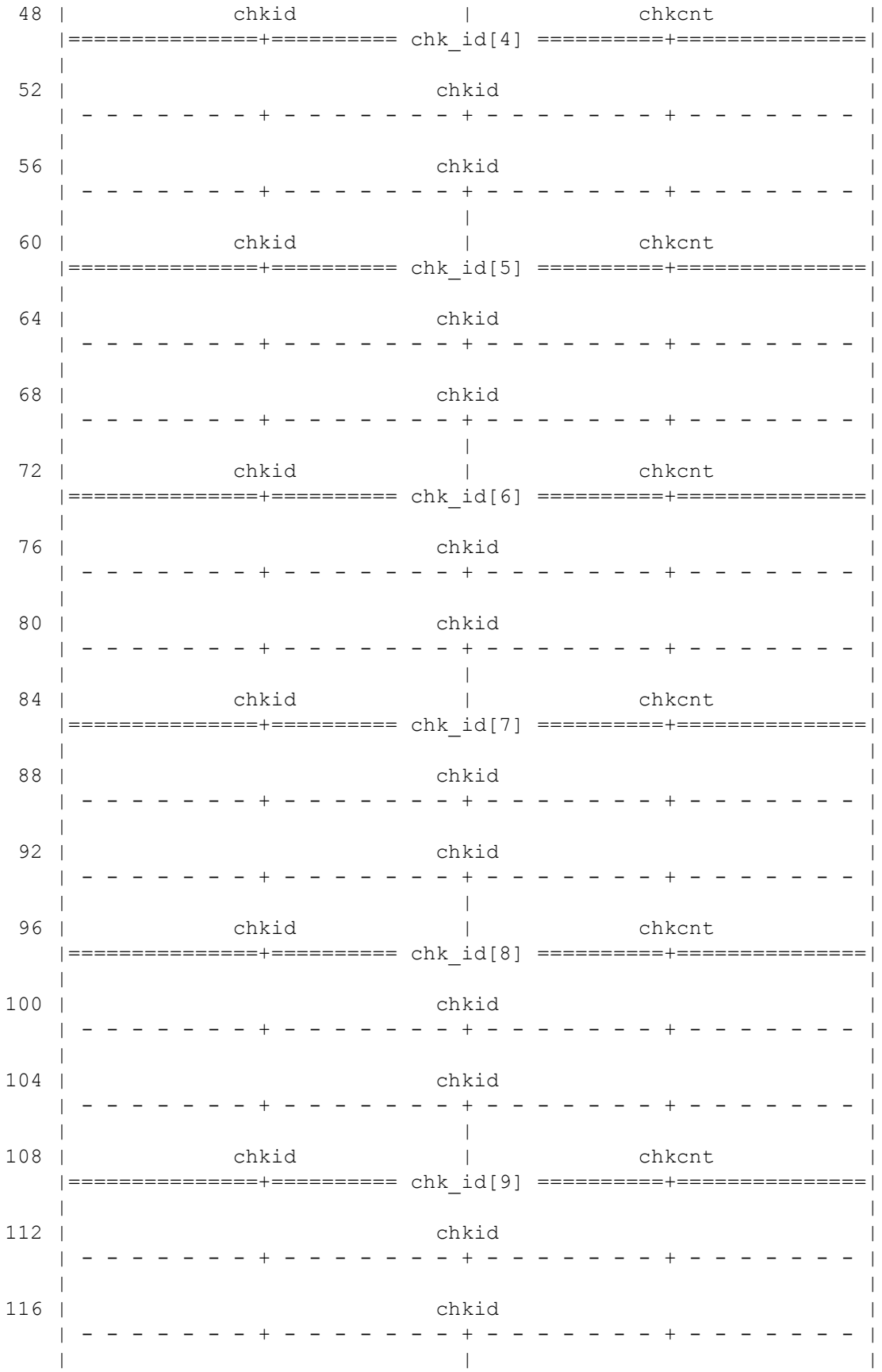


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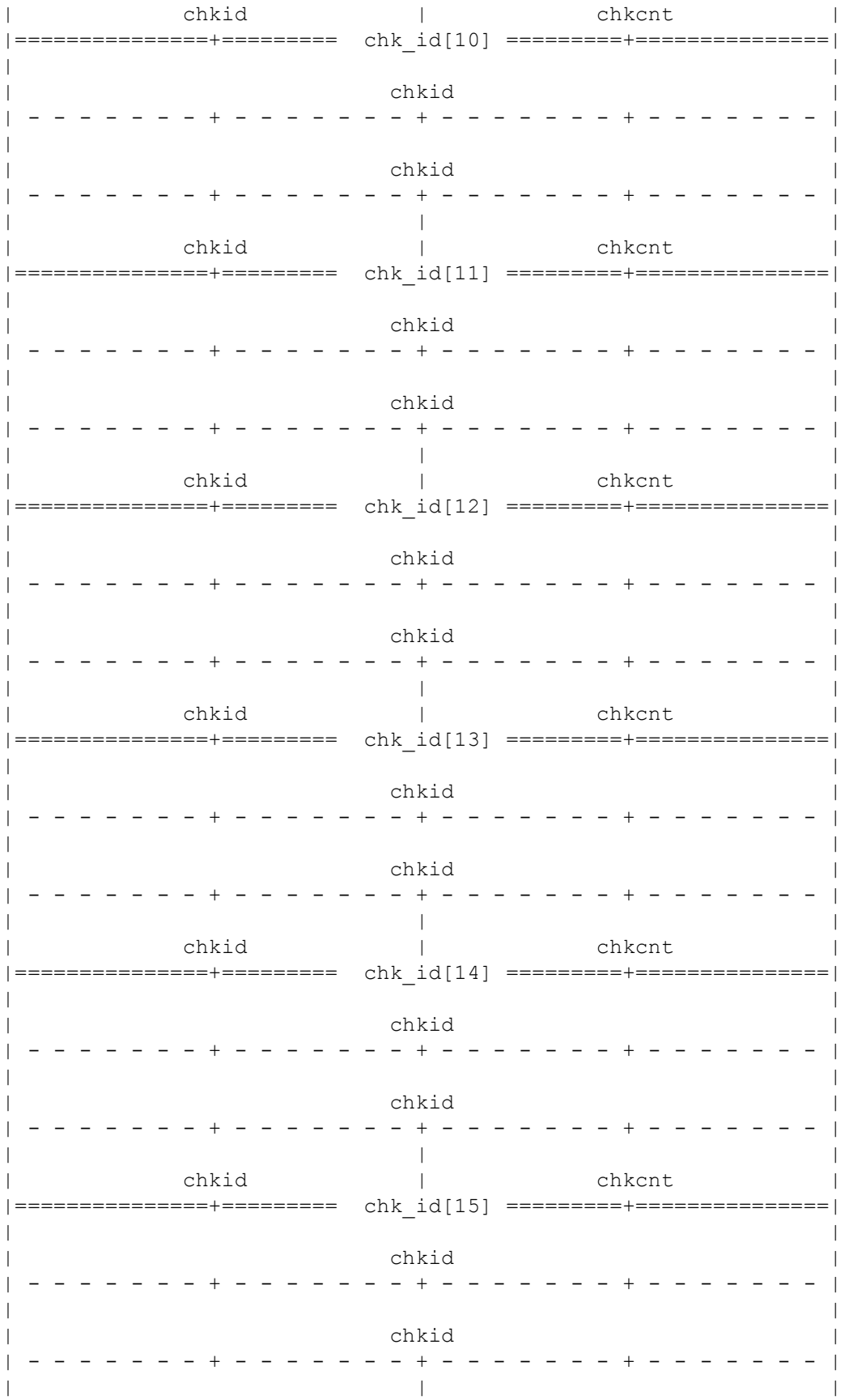


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```
192 |             chkid             |             chkcnt            |
    |===============+===============+===============+===============|
       ( 196 bytes )
```

## 4. Population Rules for RLchklst

**Relation Description** Choke List. This relation contains a choke list that is read to determine what special office codes LASS Automatic Recall and LASS Automatic Callback invocation should not be allowed to camp on.

**Attribute: dummy_key**

**Fullname:** Dummy Key
**Attribute Description** This relation does not need a key, but one is required. A dummy key is used for this relation.

**Attribute: chkpad**

**Fullname:** Chokelist padding
**Attribute Description** This attribute is a dummy field used for alignment of chokelist entries.

**Attribute: ids_in_use**

**Fullname:** Number of chk_id structures in use.
**Attribute Description** This attribute specifies the current number of choke list entries populated. The choke list structures must be populated in a sequential order, chk_id1 first, then chk_id2 second, etc.

**Attribute: chk_id1**

**Fullname:** choke list entry id 1 thru 16
**Attribute Description** Choke List entry ID. This field specifies the choke list digits in ASCII. The choke list digits in each entry specify either an NPA, NPA-NXX, or NPA-NXX-XXXX. Special office codes for mass calling applications are in the choke list. These codes may be set aside by the service provider. LASS automatic recall and/or LASS automatic callback invocation should be denied to these codes on a call-by-call basis. The maximum number of entries on the list is 16. Each of which may be 3 or 6 or 10 digits in length. Special office codes which just consist of an NPA must be populated first in this list, combinations of NPA-NXX must be populated next. Combinations of NPA-NXX-XXXX populated last in the list.

**Attribute: chk_id1.chkid**

**Fullname:** choke list entry id (1 thru 16).
**Attribute Description** See usage description for attribute chk_id1.

**Attribute: chk_id1.chkcnt**

**Fullname:** choke list count (1 thru 16).
**Attribute Description** There are 16 of these counters that keep track of how many digits have been populated in a corresponding choke list entry. A choke list entry will contain at a minimum NPA.

**Attribute: chk_id[*]**

**Fullname:** See attribute chk_id1
**Attribute Description** See Attribute chk_id1.

**Attribute: chk_id[*].chkid**

**Fullname:** choke list entry id (1 thru 16).
**Attribute Description** See usage description for attribute chk_id1.

**Attribute: chk_id[*].chkcnt**

**Fullname:** choke list count (1 thru 16).

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**Attribute Description** There are 16 of these counters that keep track of how many digits have been populated in a corresponding choke list entry. A choke list entry will contain at a minimum NPA.

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# CHPERM

## 1. Description

Carrier handling permissions.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2560 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
CHPERM      relid = 2167  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     countrycode  DMTCSCC      (ushort: 10)     <--- key
     carrier      DMUNS4       (ushort: 4)      <--- key
 (a) oaff1        DMMC_BOOL    (enum: 2)
     annclang     DMCHAR3      (array [ 3 ] of char )
     oaff5        DMCHAR       (char)
 (b) oaff3        DMMC_BOOL    (enum: 2)
 (c) oaff4        DMMC_BOOL    (enum: 2)
 (d) autoinit     DMBOOL       (enum: 1)
 (e) autoseq      DMBOOL       (enum: 1)
 (f) diorotto     DMBOOL       (enum: 1)
 (g) apq          DMBOOL       (enum: 1)
 (h) prepdcard    DMBOOL       (enum: 1)
 (i) indettrmt    DMINDETTMT   (enum: 1)
         User, Compacted and Stored Tuple Layout CHPERM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |       |   |                               |
  0 |    countrycode    |carrier| a |            annclang           |
    | - - - - - - - - + - - - - - - - + - - - - - - - - + - - - - - - - |
    |                   |               |   |   | | | | | | |           |
  4 |    annclang       |     oaff5     | b | c |d|e|f|g|h|i|***********|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLchperm

**Relation Description**

RLchperm

RLchperm is for the Carrier Handling Permissions data for the DIOR Sequence Call Enhancements feature.

**Attribute: countrycode**

**Fullname:** Country Code.

**Attribute Description** DIOR Country Code utilizing this feature.

**Attribute: carrier**

**Fullname:** Carrier.

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**Attribute Description** Origination carrier of a call from this country code.

**Attribute: oaff1**

**Fullname:** tri-state boolean spare.

**Attribute Description** Unused.

**Attribute: autoinit**

**Fullname:** Automated Initial calls allowed.

**Attribute Description** Automated initial calling allowed on DIOR calls indicator.

**Attribute: autoseq**

**Fullname:** Automated Sequence calls allowed.

**Attribute Description** Automated sequence calling allowed on DIOR calls indicator.

**Attribute: diorotto**

**Fullname:** DIOR Otto allowed.

**Attribute Description** DIOR Offer Transfer To Operator indicator.

**Attribute: apq**

**Fullname:** Automated Position queue usage allowed.

**Attribute Description** Automated Position queue usage allowed on DIOR Automated Initial calls indicator.

**Attribute: prepdcard**

**Fullname:** Pre-paid card usage allowed.

**Attribute Description** Pre-paid card allowed on DIOR calls from this country code/carrier indicator.

**Attribute: indettrmt**

**Fullname:** Indeterminate reply treatment.

**Attribute Description** Treatment to be given when indeterminate reply received from card query.

**Attribute: annclang**

**Fullname:** Announcement language.

**Attribute Description** Language in which announcements are to be given if not in English. null field defaults to English announcements.

**Attribute: oaff3**

**Fullname:** tri-state boolean spare.

**Attribute Description** Unused.

**Attribute: oaff4**

**Fullname:** tri-state boolean spare.

**Attribute Description** Unused.

**Attribute: oaff5**

**Fullname:** character spare.

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**Attribute Description** Unused.

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# CHRGIDXEXP

## 1. Description

This relation defines the call type and charge treatment.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2048 |
| expected number of tuples | 38 |
| density | 59 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
CHRGIDXEXP  relid = 11    DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL


    chrgtabl_x  DMSHORT      (short)
    charge_x    DMCHGIDX     (ushort: 11)      <--- key
 (a) watsind    DMWATS       (enum: 3)
 (b) chrgmeth   DMCHRGMETH   (enum: 2)
    data_charge_x  DMCHGIDX     (ushort: 11)
    mm_tariff   DMUNS5       (ushort: 5)
    alt_sfc     DMUNS10      (ushort: 10)
 (c) maxwats    DMBOOL       (enum: 1)
    alt_cc      DMUNS10      (ushort: 10)
    mbi_wats    DMUCHAR      (uchar)
    amacalltype  DMAMACALL    (enum: 7)
        User, Compacted and Stored Tuple Layout CHRGIDXEXP
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                       |     |   |
 0 |           chrgtabl_x          |       charge_x        |  a  | b |
   |---------------+---------------+---------------+---------------|
   |                     |         |                   | |         |
 4 |    data_charge_x    |mm_tariff|      alt_sfc      |c|*********|
   |---------------+---------------+---------------+---------------|
   |                   |           |               |             | |
 8 |       alt_cc      |***********|    mbi_wats   | amacalltype |*|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population rules for RLchrgidxexp

### Relation Description

```
        Charge index expansion table

        This relation maps the charge index, determined by routing,
        into an automatic message accounting (AMA) call type.  Detailed
        charge treatments such as message billing index, wide area
```

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telephone service (WATS) band, charge table, charging method and multimetering tariff are also determined from this relation. Special charge treatment for circuit switched data calls is also determined from this relation.

This relation expands a charge index into detailed treatment for charging a call.

**Attribute:**
charge_x
**Fullname:**
Charge index
**Attribute Description:**
Charge index (key). Determined from RT_SCRNING. For automatic route selection (ARS) it is normally determined from RT_MCRT (this is usually the case for trunk terminations). However, for ARS calls using uniform numbering plan (UNP) and terminating to an NXX in this office, the charge index comes from ARSCRN (this is usually the case for line terminations).

For integrated services digital network (ISDN) data calls it is determined from this relation:

The charge_x obtained from RT_SCRNING is used to access this relation and obtain the data_charge_x. The data_charge_x overlays the charge_x field in the RT_SCRNING buffer. This is done by remote terminal access (RTA) while in the RT_SCREEN state. For non-ISDN data calls, the charge_x used will be the regular charge index.

**Attribute:**
amacalltype
**Fullname:**
Type of AMA call
**Attribute Description:**
Defines the type of billing record that will be associated with the charge index. All call types listed here generate AMA records *except* those that are otherwise noted. The following enum values are allowed: See Local Switching Systems General Requirements (LSSGR) section 8.1 for specific uses.

AMDTLTMBI - AMA call code 001. Detailed message rate, timed, with message billing index (MBI).

AMMRTMBI - AMA call code 002. Message rate, timed, with MBI.

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AMDTLUMBI - AMA call code 003. Detailed message rate, untimed, with MBI.

AMMRUMBI - AMA call code 004. Message rate, untimed, with MBI.

AMDTLTNOMBI - AMA call code 005. Detailed message rate, timed, no MBI.

AMSTPAID - AMA call code 006. Station paid.

AMDA411 - AMA call code 009. 411 directory assistance.

AMDA555 - AMA call code 033. 555 directory assistance.

AMLOCALCOIN - AMA call code 041. Local coin.

AMFLATRATE - AMA call code 067. Flat rate (recorded only if under study).

AMBNWATS - AMA call code 068. WATS billing number.

AMFREE - AMA call code 074. Free call (recorded only if under study).

AMFGDOLATA - AMA call code 110 for feature group D (FGD) originating local access and transport area (LATA) calls.

AMFGDTLATA - AMA call code 119 for FGD terminating LATA calls.

AMFGDWATS - AMA call code 114 for FGD outward WATS (OUTWATS) originating LATA calls.

AMFGBOLATA - AMA call code 134 for feature group B (FGB) originating LATA calls.

AMFGBTLATA - AMA call code 135 for FGB terminating LATA calls.

AMSBWATS - AMA call code 7 for WATS, station billing number. Standard attribute values are: watsind - measured (MT).

AMFX - AMA call code 11 for foreign exchange (FX). Standard attribute values are: watsind - AMNOTUSED.

AMTANTTRK - AMA call code 32 for tandem tie trunk. Standard attribute values are: watsind - AMNOTUSED.

AMSBILWATS - AMA call code 111 for WATS, station

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billing inter-LATA. Standard attribute values are: watsind - measured (MT).

AMCFPFNOANS - AMA call code 32 for tandem tie trunk. (Same as AMTANTTRK except call processing does not generate simulated answer.) Standard attribute values are: watsind - AMNOTUSED

AMATTSTPD - AMA call code 060 for station paid calls. Standard attribute values are: watsind - AMNOTUSED

AMATTCMC - AMA call code 306 for cellular mobile carrier (CMC) calls. Standard attribute values are: watsind - AMNOTUSED

AMCCSASAMP - AMA call code 21 for common control switching arrangement (CCSA) sampling, records are for customer information only. (Used by the ARS II feature.)

AMETSMDR - AMA call code 85 for electronic tandem switching (ETS)-message detail recording (MDR) revenue accounting office (RAO), records are for customer information only. (Used by the ARS II feature.)

AMETSCCSA - AMA call code 99 for ETS-MDR RAO and CCSA route, records are for customer information only. (Used by the ARS II feature.)

AMISDNDATA - AMA call code 072 for ISDN data intra-LATA calls.

AMISDNOLATA - AMA call code 117 for ISDN data originating inter-LATA calls.

AMISDNTLATA - AMA call code 121 for ISDN data terminating inter-LATA calls.

AMOAICVPN - AMA call code 263 for originating access to interexchange carrier virtual private network (VPN) calls.

AMAPSVC - AMA call code 080 for ISDN packet switching virtual calls. * Note: No tuple will be generated for this call type in the relation RLamcall.G.

AMAPSIVC - AMA call code 378 for ISDN packet switching intra group virtual calls. * Note: No tuple will be generated for this call type in the

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relation RLamcall.G

AMSPAMEG - AMA call code 309 for MEGACOM(R) (special access) calls.

AMSDNCALL - AMA call code 129 for Software Defined Network calls.

* Note: The charge index is not used to determine these types of billing. Therefore, these values should never be populated in the charge index expansion relation.

* AMINWATS - AMA call code 008 for inward WATS (INWATS) calls. (Not used in charge index expansion.)

* AMCMCBOT - AMA call code 63 are used for calls terminating to a CMC using Type 2B access.

* AMCMCOT - AMA call code 64 are used for calls terminating to a CMC and originating from an access tandem using Type 2A access.

* AMCMCBTT - AMA call code 65 are used for calls originating from a CMC using Type 2B access.

* AMCMCTT - AMA call code 66 are used for calls originating from a CMC and terminating to an access tandem using Type 2A access.

* AMFGAOLATA - AMA call code 131 for feature group A originating LATA calls. (Not used in charge index expansion.)

* AMFGATLATA - AMA call code 132 for feature group A terminating LATA calls. (Not used in charge index expansion.)

* AMACCT - AMA call code 124 for account code dialed calls not normally recorded, records are for customer information only. (Not used in charge index expansion.)

* AMNSFAM - AMA call type for number services calls. This indicates that the call code has been stored in the call record. The call code was returned from the SCP database. (Not used in charge index expansion.)

* AMOSOINWATS - AMA call code 360 for INWATS calls at the originating screening office.

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(Not used in charge index expansion.)

* AMSPAWATS - AMA call code 318 for special access WATS calls. (Not used in charge index expansion.)

* AMDIDSTDY - AMA call code 381 for direct inward dialing (DID) study records associated with timeout while waiting for answer supervision from DID facilities.

* AMUTT - AMA call code 550 for Utility Telemetry calls. (Not used in charge index expansion.)

**Attribute:**
chrgmeth
**Fullname:**
Charge method
**Attribute Description:**
Charging method.
Not used by U.S. -- default to CHRGNON.

**Attribute:**
mm_tariff
**Fullname:**
Multimetering tariff identity
**Attribute Description:**
Multimetering tariff identity.
Not used by U.S. -- default to 0.

**Attribute:**
mbi_wats
**Fullname:**
MBI/WATS band
**Attribute Description:**
MBI/WATS band. Assign numbers 0-9 for WATS call types and 1-255 for MBI call types such that RLamcall.xmbi_wats is DBYES

**Attribute:**
chrgtabl_x
**Fullname:**
Charge table index
**Attribute Description:**
Non-zero numbers are allowed only with call types:

AMLOCALCOIN, AMDA411, AMDA555, AMFGDOLATA, and AMFGBOLATA. These numbers should correspond with

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the numbers assigned in relation FC_COINCHG.

AMDTLTMBI, AMMRTMBI, AMDTLUMBI, AMMRUMBI, AMDTLTNOMBI, and AMFLATRATE. These numbers should correspond with the numbers assigned in the CHGTBL relation used with the hotel/motel message register feature.

**Attribute:**
watsind
**Fullname:**
WATS indicator field
**Attribute Description:**
WATS indicator. WATS call type (AMBNWATS,AMFGDWATS, AMSBWATS, AMSBILWATS) must have AMMEASTM OR AMFULLBD. All other call types must have AMNOTUSED.

**Attribute:**
data_charge_x
**Fullname:**
Charge index for ISDN data call
**Attribute Description:**
Charge index for ISDN data call. For a regular voice call, the charge index is the charge_x attribute (key). The d ata_charge_x provides the operating company a means to charge a data call different from a voice call. If the data call is charged the same as a voice call, this data_charge_x should have the same value as the charge_x. If data_charge_x is other than charge_x, then there must be another tuple in RLchrgidxexp keyed by the value of data_charge_x.

**Attribute:**
alt_sfc
**Fullname:**
Alternate service feature code
**Attribute Description:**
This field allows operating companies flexibility in assigning service feature codes to be stored in the AMA record. Values reserved for assignment by the operating companies are 800-999. If this field is not set, the default is zero and the hard coded service feature code is used.

**Attribute:**
alt_cc
**Fullname:**
Alternate call code
**Attribute Description:**
This field allows operating companies flexibility in assigning call codes to be stored in the AMA record. Values reserved for assignment by the operating companies are 800-999. If t

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his field is not set, the default is zero and the hard coded call code is used.

**Attribute:**

maxwats

**Fullname:**

Maximal subscribed OUTWATS

**Attribute Description:**

This attribute is used to identify maximal subscribed OUTWATS for populating the network specific facility (NSF) information element (IE) of the private rate interface (PRI) SETUP message. This attribute may be DBYES if RLchrgidxexp.charge_x is a maximal subscribed OUTWATS charge index. This attribute can be DBYES only if RLchrgidxexp.amacalltype is AMBNWATS, AMSBWATS, AMFGDWATS, or AMSBILWATS. This attribute applies only to 5ESS(R)-2000 switches serving as private branch exchanges (PBXs), not central offices. In a central office this attribute should be set to DBNO.

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# CICLKGRP

## 1. Description

Mapping from Circuit Identification Code to Link group and member.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 4096 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
CICLKGRP    relid = 2356  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     dpc         DMDPC        (ulong: 24)     <--- key
     member      DMUNS4       (ushort: 4)
     opc         DMDPC        (ulong: 24)     <--- key
     lnkgrp      DMUNS8       (ushort: 8)
     cic         DMCIC        (ushort: 14)     <--- key
         User, Compacted and Stored Tuple Layout   CICLKGRP
     |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
     |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
     |---------------+---------------+---------------+---------------|
     |                                               |       |       |
   0 |                      dpc                      | member|*******|
     |---------------+---------------+---------------+---------------|
     |                                               |               |
   4 |                      opc                      |     lnkgrp    |
     |---------------+---------------+---------------+---------------|
     |                           |                                   |
   8 |            cic            |***********************************|
     |---------------+---------------+---------------+---------------|
        ( 12 bytes )
```

## 4. Population Rules for RLciclkgrp

**Relation Description** Circuit Identification Code to Link group relation
This relation maps the Circuit Identification Code (CIC) to the Link group and member.

**Attribute: dpc**

**Fullname:** Destination Point Code

**Attribute Description** This attribute defines the Destination Point Code (DPC) for the link group.

**Attribute: opc**

**Fullname:** Originating Point Code

**Attribute Description** This attribute defines the originating point code.

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**Attribute: cic**

**Fullname:** Circuit Identification Code

**Attribute Description** This attribute defines the Circuit Identification Code (CIC).

**Attribute: lnkgrp**

**Fullname:** Link Group

**Attribute Description** This attribute defines the Link group associated with the DPC, OPC and CIC.

**Attribute: member**

**Fullname:** Link group member

**Attribute Description** This attribute defines the Link group member.

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# CICPHRAS

## 1. Description

For Carrier Specific Branding, this relation stores a carrier identification code (CIC) to Announcement Phrase ID mapping. This phrase ID is used to brand calls by carrier when the feature is active on the trunk group over which the call arrives at the OSPS.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10000 |
| expected number of tuples | 300 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
CICPHRAS    relid = 2194  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     carrierid   DMBCARID     (ushort: 14)     <--- key
     phraseid    DMPHRASE     (ushort)
         User, Compacted and Stored Tuple Layout   CICPHRAS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |   |                           |
  0 |         carrierid             |***|            phraseid           |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLcicphras

**Relation Description**

RLcicphras

Carrier identification code (CIC) to Announcement Phrase ID mapping.

**Attribute: carrierid**

**Fullname:** carrier identification code

**Attribute Description** Carrier identification code of the carrier for which this phrase is used in the branding announcement.

**Attribute: phraseid**

**Fullname:** phrase id

**Attribute Description** Announcement phrase ID of the phrase used for the branding announcement for this carrier.

These values are defined as follows:

| PHRASEX | DESCRIPTION |
|---|---|
| 1-16383 | Application Defined Phrase IDs |
| 16384-16599 | Reserved - cannot be used |
| 16600-MAXPHRASEID | Application Defined Phrase IDs |

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**Defines:** "db/DMcarr_val.h"

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# CKT_PORT

## 1. Description

Circuit name and port index to port name.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65531 |
| expected tuples in relation | 1505 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| density | 35 |
| permutation type | un_perm |

## 3. Field Layout

```
CKT_PORT    relid = 1823  DBSTATIC   DBACC_HASH  DBPRAM    LPFPFG  RCMAP
     cktname     DMCIRCUIT    (ushort)     <--- key
     port_indx   DMPORTINDX   (ushort)     <--- key
     port        DMPORT       (ushort)
         User, Compacted and Stored Tuple Layout   CKT_PORT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            cktname            |           port_indx           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              port             |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLckt_port

**Relation Description** Circuit name and port index to port name.
Convert a circuit name and port index to its associated port name. Since there can be 1-to-many relationship between a circuit and ports, a port index is required. The port index uniquely identifies a port when multiple ports exist for a particular circuit or logical group of ports.

**Attribute: cktname**

**Fullname:** Circuit name

**Attribute Description** This is the circuit name that the port resides on. The port will be uniquely identified by the port index. If the circuit name is a holding circuit name then the port has no parent circuit, do not perform a crosscheck on RLcktdata.

**Attribute: port_indx**

**Fullname:** Port index for this port

**Attribute Description** The port index will uniquely identify a port within a circuit. If there is a 1-to-1 mapping between the port and its parent circuit then the port index is 0. See RLfc_porttyp.p for population rules.

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**Attribute: port**

**Fullname:** Port name

**Attribute Description** The port uniquely identified by the circuit name and port index.

**defines**:
"db/DMcircuit.h", "db/DMportindx.h", "db/DMport.h", "db/DMparty.h"

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# CKT_REL

## 1. Description

This relation contains static equipment information for circuits and units in the SMP. This relation also contains hardware hierarchy relationship information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 41000 |
| expected tuples in relation | 840 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
CKT_REL     relid = 2743  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     name         DMCIRCUIT    (ushort)     <--- key
     type         DMCKTTYPE    (enum)
     ckt_indx     DMCKTINDX    (ushort)
     mate_id      DMCIRCUIT    (ushort)
     spare_id     DMCIRCUIT    (ushort)
     parent_id    DMCIRCUIT    (ushort)
     unit         DMUNITNO     (ushort: 8)
     utype        DMUNITTYPE   (enum: 7)
 (a) parent_cmplx  DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout    CKT_REL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |               name            |               type            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             ckt_indx          |             mate_id           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |             spare_id          |            parent_id          |
    |---------------+---------------+---------------+---------------|
    |               |             | |                               |
 12 |      unit     |    utype    |a|*******************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLckt_rel

**Relation Description** Circuit Relationships
This relation contains static equipment information for circuits and units in the SMP. This relation also contains hardware hierarchy relationship information.

**Attribute: name**

**Fullname:** Circuit name

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**Attribute Description** (key) name of the key circuit

**Attribute: type**

**Fullname:** Circuit type

**Attribute Description** The type of the key circuit

**Attribute: unit**

**Fullname:** Unit number

**Attribute Description** The unit number of the key circuit

**Attribute: utype**

**Fullname:** Unit type

**Attribute Description** The unit type of the key circuit.

**Attribute: ckt_indx**

**Fullname:** Circuit Index

**Attribute Description** The circuit index of the key circuit.

**Attribute: mate_id**

**Fullname:** Mate Circuit name

**Attribute Description** The name of the mate to the key circuit

**Attribute: spare_id**

**Fullname:** Spare Circuit name

**Attribute Description** The name of the circuit which can spare the key circuit. This name will be shared among more than one key circuit.

**Attribute: parent_id**

**Fullname:** Parent Circuit name

**Attribute Description** The name of the simple (single, dedicated) parent of this circuit, if it exists. This name may be shared among more than one key circuit.

**Attribute: parent_cmplx**

**Fullname:** Complex Parent Indicator

**Attribute Description** An indicator that the circuit's parent is not simple or dedicated. Typically this means there is one or more sets of variable (such as, duplex pair) parents. **Defines:**

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# CKT2GRP

## 1. Description

Circuit to grpname.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65535 |
| expected tuples in relation | 4680 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | PCckt2grp_trg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
CKT2GRP     relid = 1868  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     ckt_no      DMCKTNUM     (ushort)     <--- key
     grp_num     DMUNS16      (ushort)     <--- key
     gsdb_grp    DMUNS16      (ushort)
     unit        DMUNITNO     (ushort: 8)     <--- key
     utype       DMUNITTYPE   (enum: 7)     <--- key
         User, Compacted and Stored Tuple Layout    CKT2GRP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              ckt_no           |            grp_num            |
    |---------------+---------------+---------------+---------------|
    |                               |                 |             | |
  4 |            gsdb_grp           |      unit       |    utype    |*|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLckt2grp

**Relation Description**

```
Mapping of unit number, unit type, physical circuit number
(such as, physical rt#), and line Group Number to a logical group name
```

This relation represents the translation from a circuit name to the Group Summary Scan Data Block (GSDB) logical group name. This translation is used for scanning.

Relation RLckt2grp is accessed by the physical unit number, unit type, the Remote terminal number and the line group number. The transport unit number and RT number are obtained from relation RLcktdata. The line group number is derived by dividing the RT line number(0 - 2047) by eight (8).

Group Number = (RT_line_no / 8)

One tuple is needed for every eight (8) ports on a remote terminal. The GSDB group in each tuple is the key into the dynamic relation, RLgsdb, where processes can identify which of eight ports are reporting a state change.

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**Attribute: unit**

**Fullname:** unit number

**Attribute Description** This is the unit number on the SM.

**Attribute: utype**

**Fullname:** unit type

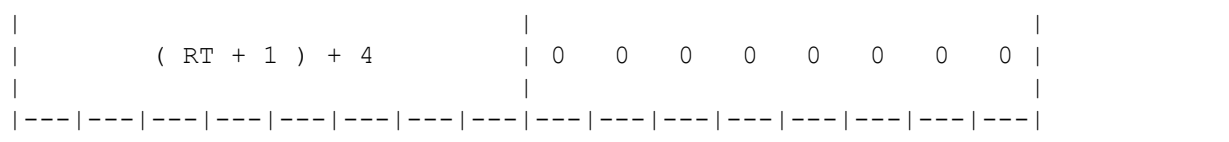
**Attribute Description** This is the unit type.

**Attribute: ckt_no**

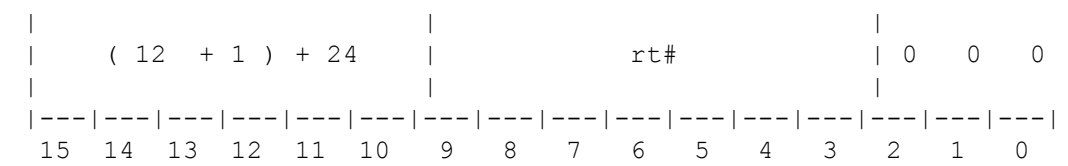
**Fullname:** Physical circuit number

**Attribute Description** The circuit number is contained in the circuit index as shown here. Valid RT numbers are 1 - 31 for IDCU and 1 - 99 for DNU-S.

IDCU




DNU-S

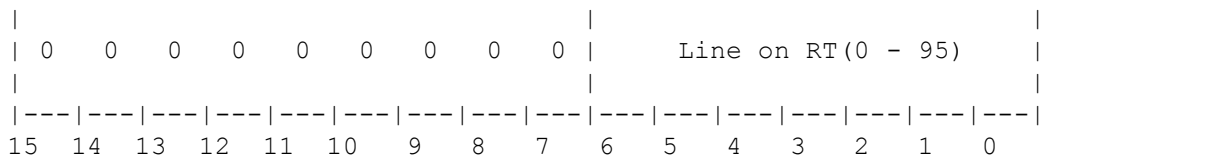



**Attribute: grp_num**

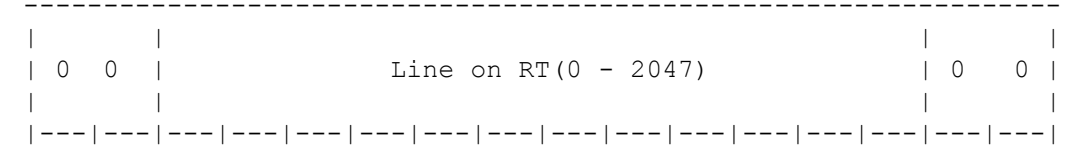
**Fullname:** Line Group Number

**Attribute Description** The line group number is derived by dividing the RT line number by eight (8). The RT line number can be obtained from the port index. If The RT line is a TR8 the line number is located in bits 0-6 of the port index. If the RT line is a TR303 then the line number is located in bits 2-13 of the port index as shown here.

TR8 RT(PCS96SHF,PCS96BNK):




TR303 RT(PCRDT303):

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```
  15  14  13  12  11  10   9   8   7   6   5   4   3   2   1   0
```

**Attribute: gsdb_grp**

**Fullname:** GSDB group name

**Attribute Description** The GSDB group name. The group name is selected from the next available sequential value from a pool of group names in relation RLrc_qidx.

The bit layout of the gsdb_grp attribute (IDCU) follows:

```
-----------------------------------------------------------------
|           |                                                   |
| 1   1   0 |             LOGICAL  GSDB                         |
|           |                                                   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
15  14  13  12  11  10   9   8   7   6   5   4   3   2   1   0
```

```
LOGICAL GSDB (bits 0-12)  - number 1 through 8191 (0x1FFF)
                            (Unique for each IDCU/DNU-S GSDB/SM)
                            Zero (0) is illegal.
```

The bit layout of the gsdb_grp attribute (DNU-S) follows:

```
  -----------------------------------------------------------------
  |                                                               |
  |                      LOGICAL  GSDB                            |
  |                                                               |
  |---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
    15  14  13  12  11  10   9   8   7   6   5   4   3   2   1   0
```

```
LOGICAL GSDB (bits 0-15)  - number 0x0001 through 0xFFFC
                            (Unique for each DNU-S GSDB/SM)
                            Zero (0) is illegal.
```

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# CKTCDDIG

## 1. Description

Circuit code to digit translation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 1 |

## 3. Field Layout

```
CKTCDDIG    relid = 1313  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     dig         DMDIG3       (array [ 3 ] of char )
 (a) ckt_code    DMUNS4       (ushort: 4)     <--- key
         User, Compacted and Stored Tuple Layout   CKTCDDIG
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                 |       |       |
  0 |                      dig                        |   a   |*******|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLcktcddig

**Relation Description** Circuit code to digit translation. This relation is used to translate the 4 bit circuit code, received in the TNS parameter of an ISUP7 IAM message, to a digit value which represents the 0ZZ, or 1NX or 1N'X digit string used in equal access and international signaling.

This relation is only populated for Originating Access Tandem offices with incoming ISUP7 trunks and Originating Toll offices that handle international traffic on incoming ISUP7 trunks.

**Attribute: ckt_code**

**Fullname:** Circuit Code

**Attribute Description** This attribute, contained in the Network Identification field of the transit network selection (TNS) parameter, contains a 4 bit circuit code value.

A 4 bit value of 0000, in the circuit code bit subfield of the TNS parameter, is defined in the ISUP7 protocol specification to have a meaning of unspecified. Since all CCS7 parameter bit subfields have a default value of zero unless otherwise assigned, it is not recommended to translate a 4 bit 0000 code point as a meaningful value.

If ckt_code has a value of 0001 then dig must contain the corresponding 1NX (international call, no operator requested) standardized string.

If ckt_code has a value of 0010 then dig must contain the corresponding 1N'X (international call, operator requested) standardized string.

**Attribute: dig**

**Fullname:** Digits

**Attribute Description** This attribute contains a 3 digit string which represents the 0ZZ or 1NX or

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1N'X digit string used in equal access and international signaling.

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# CKTDATA

## 1. Description

This relation defines the per circuit data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 41000 |
| expected tuples in relation | 840 |
| density | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 8192 |
| data page size | 1024 |
| page level | 2 |
| trigger function | DBcktdatatrg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| manual - NO automation of engg | DBYES |

## 3. Field Layout

```
CKTDATA     relid = 12    DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     name         DMCIRCUIT    (ushort)  <--- key
     type         DMCKTTYPE    (enum)
     pidb         DMPIDB       (ushort)
     dbchan       DMDBCHAN     (ushort)
     ckt_indx     DMCKTINDX    (ushort)
     unit         DMUNITNO     (ushort: 8)
     utype        DMUNITTYPE   (enum: 7)
 (a) dbind        DMBOOL       (enum: 1)
     dfimode      DMDFIMODE    (enum: 6)
 (b) chnasn       DMCHNASN     (enum: 2)
 (c) pidbtype     DMPIDBTYPE   (enum: 4)
 (d) eqstat       DMEQSTAT     (enum: 3)
 (e) cktbrd       DMBOOL       (enum: 1)
     baseadd      DMCTRLADRS   (ulong)
     cli          DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout    CKTDATA
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |               name            |               type            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |               pidb            |             dbchan            |
    |---------------+---------------+---------------+---------------|
    |                               |                 |             | |
  8 |            ckt_indx           |      unit       |    utype    |a|
    |---------------+---------------+---------------+---------------|
```

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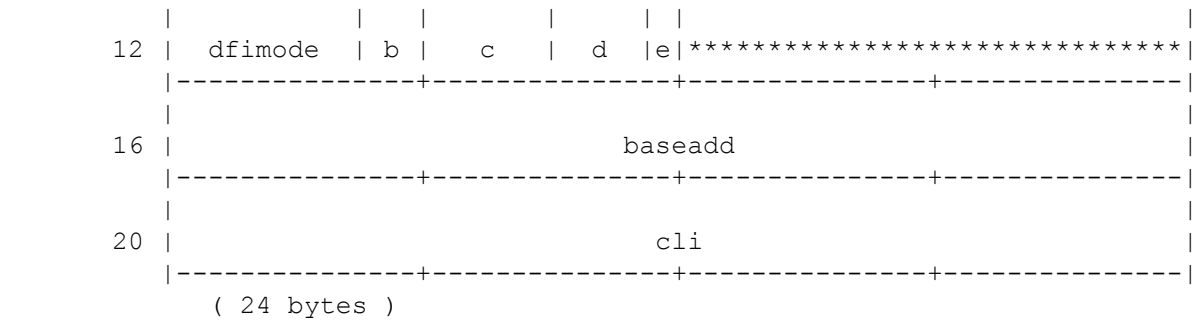


## 4. Population rules for RLcktdata

### Relation Description

Circuit datag

Per circuit data.

DEVELOPER GUIDELINES FOR CLI ATTRIBUTE POPULATION RULES
See Usage section for attribute cli.

For circuits on dial through announcement (DTA) recorded announcement functions (RAFs): PC_ANN and PC_DTA circuit types can be mixed within one RAF.

This file is arranged based on utype and ckttype allows for a future ownership split based on ckttype owners (such as, SMIM, TM, & PC) 5E12.1 and 5E13.1 were un-commoned due to the delta file sizes approaching the 4MB extraction limit.

All changes will be strictly held to the following standards:

- Use Declarative code vs. Procedural (functions) to the greatest extent possible
- No linear searches
- No functions with error points
- For 5e10 and later, no new functions that read data
- All outer loops must be identical for loop jamming for example "for cktdata in RLcktdata"
- PRL must be located based on utype and ckttype.

**Attribute:**

name

**Fullname:**

Local circuit name

**Attribute Description:**

The circuit name is a logical 16-bit name. There is no physical information embedded in its name.

**Attribute:**

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type

**Fullname:**

Circuit type

**Attribute Description:**

This attribute indicates the circuit type.

**Attribute:**

baseadd

**Fullname:**

Base address of circuit

**Attribute Description:**

This value is used for switching module memory address. This attribute represents the base address for the circuit's registers and will address the first register. If the circuit does not have addressable registers, the base address will be 0. With addressable registers, the base address is typically populated with the PICB in the upper byte and 0 in the lower byte.

**Attribute:**

pidbtype

**Fullname:**

Peripheral interface data bus type

**Attribute Description:**

This attribute is to describe different types of peripheral interface data bus. Specific usage varies depending on the type assigned.

**Attribute:**

pidb

**Fullname:**

Peripheral interface data bus number

**Attribute Description:**

The valid range of data bus number used is unsigned char, ranging from 0 to 255.

**Attribute:**

dbind

**Fullname:**

Data Bus Channel Indicator

**Attribute Description:**

Indicates if a data bus channel is assigned to this circuit.

**Attribute:**

dbchan

**Fullname:**

Data bus channel number

**Attribute Description:**

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This attribute contains the PIDB time slot number (0 - 31).

**Attribute:**
chnasn
**Fullname:**
Channel assignment
**Attribute Description:**

This attribute is used to describe Channel assignment rules for circuits.

DEVELOPER GUIDELINES FOR COUNTING CHANNEL ASSIGNMENT FOR DI LOADING
---

The time slot interchanger (TSI) provides access for 512 peripheral interface data bus (PIDB) time slots which are mapped to 512 channels (also known as TSI time slots). Each PIDB time slot has access to eight channels. PIDB time slots terminating on DI 0 have access to one of eight even channels, and PIDB timeslots terminating on DI 1 have access to any one of eight odd channels. For example, PIDB timeslot 0 on PIDB 0 on DI 0 has access to any one of the channels 0, 2, 4, 6, 8, 10, 12, or 14.

NOTE: This paragraph is being added to explain why these guidelines of channel assignment were not written in population rule language (PRL). The information about time slot channel assignment is contained in RLcktdata for office data administration (ODA) reference. The switch will never allow a corrupted office-dependent data (ODD) (that is, an ODD with too many time slot channels allocated) to exist on the switch. Peripheral control (PC) initialization code checks this situation on every switching module (SM) initialization. RC prevents over growth of channels through either a PC interface (used by their mapping code) which is used by a few forms or by PC trigger functions failing when growing in more channels (PC trigger functions during growth check this situation). Another reason for this check not being put in PRL, is that with static ODD (SODD) audits based off of PRL. If this check was to be added as an audit, it would never find problems due to PC and RC code resident on the switch that already protects against this. (also, note that office database editor (ODBE) uses the PC trigger functions thus, not allowing over growth of channels). A final reason for not adding this check as an SODD audit, is that this will be a complicated check (due to the ability to move system tones around on different channels) and would use much central processing unit (CPU) time that could be used on a more productive audit. The audit would also use a lot of memory (it would keep a couple of large arrays used for time slots [for local calculations and counters] and the audit text portion of the audit would be fairly large [there will be a large amount of PRL code to implement this]).

The following describes in detail the mapping of time slots channels for each circuit type.

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There can only be eight channels assigned per PIDB time slot per data interface (DI). Their use is maintained in the unprotected channel allocation map PCchalloc[] as follows:

The following diagram shows the mapping.

```
DI 0    |               PIDB time slots (dbchan)
        |  31      30  ............. 4     3     2     1    0
-------------------------------------------------------------
P    0  |
I    1  |
D    2  |       EVEN CHANNELS IN THE RANGE SPECIFIED
B    .  |
     .  |496-510 480-494 ......... 64-78 48-62 32-46 16-30 0-14
N    6  |
O    7  |


DI 1    |               PIDB time slots (dbchan)
        |  31      30  ............. 4     3     2     1    0
-------------------------------------------------------------
P    0  |
I    1  |
D    2  |       ODD CHANNELS IN THE RANGE SPECIFIED
B    .  |
     .  |497-511 481-495 ......... 65-79 49-63 33-47 17-31 1-15
N    6  |
O    7  |
```

The following is the bit map diagram of a channel number. The dbchan field contains the PIDB time slot.

```
  8   7   6   5   4   3   2   1   0
_____________________________________
|   |   |   |   |   |   |   |   |   |
|                   |           |   |
|       DBCHAN      |  1 of 8   | DI |
|___________________|___________|____|
```

Certain rules apply towards how these channels are used up by different circuits, which are explained in the following. In addition, system tones must be considered as well.

SYSTEM TONES

There are two system tones (IDLE, AUDIBLE RING) to worry about unless this is an automatic voice network (AUTOVON) SM, then there are three (IDLE, AUDIBLE, and PRECEDENCE AUDIBLE RING). The global parameters, Glidlech, Glaudring, and Glpaudring specify the channel used by idle code, audible ring, and precedence ring respectively.

All system tones are movable at growth and initialization time,

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but they will always be there using up channels.

If all eight channels are used, then, if one or both of the system tones reside in this map column, an attempt is made to relocate the tone to a different channel. If there was no system tone clash, or if the relocation attempt fails, an illegal peripheral configuration exists. It is not necessary to over-assign the whole 512-channel pool to get in trouble -- any one column using over eight channels is bad.

For each timeslot, nine channels are allowed to be used if one is a tone and there are some allocatable channels.

There can never be more than 11 circuits using a given set of eight channels in the AUTOVON (three system tones ) case and never more than ten circuits in the non-AUTOVON (two system tones) case.

Other circuits use channels as described in the following diagram. Additional information regarding certain circuits is also included in the following diagram.

| TYPE | CHNASN | DBCHAN | COMMENTS |
|---|---|---|---|
| PCBTSR_CH | PCALLOCHAN | 0..31 | Not counted towards DI overload for channels used. |
| (ANALOG TUs) type = PCTCLOUT PCTCLIN,PCTCTST, PCTC2EM,PCTC4EM, PCTCTLO,PCTCTLI, PCTCT2E,PCTCT4E | PCINITCHAN | 32 channels | 32 channels/unit, max of 4 tuples per unit each unit has a unique value for 'pidb'. |
| PCCHAN | PCALLOCHAN | 64 channels (32/sg) | 64 tups/unit equipped. 1 tup per circuit. |
| PCCHAN | PCALLOCHAN | 64 channels (32/sg) | 1 tup/LU2/3 channel circuits equipped. |
| PCDCLCHN | PCALLOCHAN | 32 channels | 32 tup/SLC(R) 96 unit with 9:1 concentration. |
| | | 64 channels | with 4.5:1 concentration. |
| PCDCLCHAN | PCALLOCHAN | 32 channels | 1 tup/SLC(R) 96 PIDB channel with 9:1 concentratio n. |
| | | 64 channels | with 4.5:1 concentration. |
| ---- Global Digital Service Unit types ---- | | | |
| (TTF BOARDS) type=PCTTFTGEN, PCTTFTDCUT, | PCINITCHAN | 32 channels | 32 channels per global digital service unit. The number of tuples |

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| | | | |
|---|---|---|---|
| PCTTFTDPTC,<br>PCTTFRESP,<br>PCTTFTTTL | | | depends on how many boards of what type are present. Each unit has a unique value for 'pidb'. |
| PC_CONF | PCALLOCHAN | | |
| PC_CONF6 | PCALLOCHAN | | |
| ---- End of Global Digital Service Unit types ---- | | | |
| PC_ANN | PCINITCHAN | 0 .. 31<br>(32 channels) | 1 tup/circuit. |
| PC_DTA | PCINITCHAN | 0 .. 31<br>(20 channels) | 1 tup/circuit. |
| PCISTFCHAN | PCALLOCHAN | 0 .. 30<br>(31 channels) | 31 tuples/integrated services test facility (ISTF) |
| PCT1_DFI | PCINITCHAN | 0 .. 31<br>(24 channels) | trunk digital facility interfaces (DFI) |
| PCPSU_TS | PCINITCHAN | 0 .. 31 | 1 tup/time slot<br>1 for every nailup marked in GldiX_Yptss.<br>X=0,1 Y=0..3<br>See the section where type = PCPSU_TS for details. |
| PCPIDBRISLU | PCALLOCHAN<br>For:<br>(pidbtype = PCRDUALPIDB) | 0 .. 31<br>(24 channels) | Count up 24 channels.<br>Using stuffing phase and DFI mode of DFIH1 DFIH2 remoting the remote integrated services line unit (RISLU).<br><br>RISLUs that have a spare DFI should not be counted.<br><br>A spare DFI is marked in RLislupidb's cdconfig = PCSPROSPS keyed by the picb number.<br><br>See note on RISLUPIDBs. |
| PCPIDBISLU | PCALLOCHAN<br>for pidbtype=<br>(PCISLUPIDB) | 0 .. 31<br>(32 chans/SG) | 32 channels/tuple pair.<br>(there exists 1 tup/sg) |
| | (PCDUALPIDB) | 0 .. 31 | 32 channels/tuple pair. |

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```
                                  (32 channels)   (there exists 1 tup/sg)

                  (PCDPIDB)                       Do not use channels.

                  (PCPSIUPIDB)                    Do not use channels.

PCPIDBIDCU        PCALLOCHAN                      32 channels/tuple pair
(5e8 and later)   (PCDUALPIDB)    0 .. 31
                                  (32 channels)
```

RSMs
---
RSM control time slots use channels as well.

For an HSM, the database relation RLrsmchan is read, where each tuple gives the channel number of a control time slot from an RSM in the chdb_num field.

```
DI number = !(chdb_num & 0x1)  (specifying even or odd)
TS number = (chdb_num & 0xf) + 1;
```

PCPIDBRISLUs
---
RISLU PIDBs may not use all 24 timeslots; some are reserved for signaling depending on the DFI mode, the stuffing phase being used by the DFI, and the number of control timeslots being used.

The common data (CD) configuration is stored in the relation rlISLUPIDB. The key to rlISLUPIDB is the common control (CC) PICB number (either CC will do). It is derived from the companion PICB field in the rlPICB tuple for this DFI.

To determine the DFI mode and type, we need to read the rlCKTDATA tuple for the DFI remoting this PIDB. The key, the DFI circuit name, is also in rlISLUPIDB. To access it we need the relative position on the CD of this PIDB (which is contained in the lower nibble of the PIDB circuit name).

The number of control time slots is contained in the relation rlRISLUDFI, but it is safe to assume that DFI-H1s use one CTS, and DFI-H2s use zero CTS (unless the DFI-H2 is being used for OSPS with facility sparing)

RISLU PIDBs are remoted over different types of primary rate carriers (PRC) facilities. Some timeslots are lost in the remoting process. The number and location of lost timeslots varies depending on the type of PRC, the number of control timeslots, the stuffing phase, and the type (H1 or H2) of DFI.

If the RISLU is being used for operator services position system (OSPS) with facility sparing, the map used will be the same for all DFIs/PIDBs. This is because the traffic from a given PIDB must fit on any other PIDB.

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This array maps control time slots to PIDB time slots for DFI-H1s Using various stuffing phases. It gives the TS number to be used for the control time slot. That should not be counted.

```
                0CTS  1CTS  2CTS  3CTS  4CTS
                ================================
/* stuffing phase 0 */  { 0x00, 0x04, 0x0c, 0x2c, 0x6c },
/* stuffing phase 1 */  { 0x00, 0x04, 0x0c, 0x1c, 0x5c },
/* stuffing phase 2 */  { 0x00, 0x02, 0x0a, 0x1a, 0x3a },
/* stuffing phase 3 */  { 0x00, 0x02, 0x06, 0x16, 0x36 }
```

Do not count stuffed timeslots if they are used for signaling based on the DFI mode.

SMT1FE, SMT1FE8Z - T1 format with no channel for signaling bits

SMDFRSM,SMDFB8ZS - T1 format with timeslot for signaling bits

- Don't count timeslot 30 if stuff phase 3
- Don't count timeslot 31 for other phases.

The dbchan field is the stuffing pattern (0-3) which is office engineered to distribute the 24 T1 channels across all 32 PIDB time-slots.
It tells which of the 0 ..31 timeslots on the PIDB will not be used for a channel. This way 4*24 = 96 channels would actually be spread across just three rows (3*32 = 96 channels). Stuffing patterns are the same as in DFI-H1/H2. The time slot not to be counted is the stuffing phase number and every fourth one thereafter. Therefore, 8 of 32 are not counted.

**Attribute:**
utype
**Fullname:**
Hardware unit type
**Attribute Description:**
This attribute is to indicate the hardware type that this circuit belongs to.

**Attribute:**
unit
**Fullname:**
Unit number
**Attribute Description:**
This attribute indicates the unit number that the circuit is located on within the SM.

**Attribute:**
ckt_indx
**Fullname:**

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The circuit index is a unique representation of a circuit within its unit

**Attribute Description:**

Each circuit within a given unit number and unit type must have a unique circuit index. The format of the circuit index attribute is dependent on the type of circuit. Each circuit index will have embedded physical information about the circuit.

**Attribute:**

cktbrd

**Fullname:**

Physical circuit

**Attribute Description:**

This attribute indicates if this is a physical circuit. The value for this field is DBYES/DBNO.

**Attribute:**

eqstat

**Fullname:**

Equipage state

**Attribute Description:**

Generally, the range of this attribute is SMUNEQ (UNEQUIPED), SMGROW (GROWTH), and SMOPER (OPERATIONAL). The value of SMSGROW (SPECIAL GROWTH) is allowed only where specifically stated. This attribute indicates the current state of the circuit in the SM.

**Attribute:**

cli

**Fullname:**

Change level indicator (CLI)

**Attribute Description:**

This attribute indicates the current hardware release of a given circuit. As a circuit is upgraded, it is referenced with a new schematic drawing (J-Drawing) and changed level indication. The specific circuit version will have a CLI of 0x00. Upgraded version will have incremental CLI values.

DEVELOPER GUIDELINES FOR CLI ATTRIBUTE POPULATION RULES

- List the valid CLI values and describe the hardware equipage options associated with each value.

- Be specific and complete in describing each hardware option including feature provided and associated or distinguishing pack codes and J-drawing list numbers

- See the CLI population rules for the digital services unit or the modular MSU as examples of good rules.

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- Don't force the reader to go to J-drawings or the DMclidef.h file, the population rules should be complete enough to be the one reliable source for updates to the Translation Guide and recent change manuals.

**Attribute:**
dfimode
**Fullname:**
Digital facilities interface hardware mode
**Attribute Description:**
This attribute indicates the type of legal hardware transmission mode used for a particular DFI. This attribute only pertains to DFI-related circuits. All non-DFI circuits will be populated with SMDFNULL.

**Defines:**
"db/DMmodule.h",
"db/DMcircuit.h",
"db/DMclidef.h",
"db/DMportindx.h",
"db/DMcc_side.h"

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# CKTLNK

## 1. Description

This relation provides the mapping between PHA circuit number and the link number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | SMt_cktlnk |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ks keystore | AUTO |

## 3. Field Layout

```
CKTLNK      relid = 2155  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     cktname     DMCIRCUIT    (ushort)     <--- key, not stored
     nearpsu_ca  DMPSUCA      (uchar)
     link        DMPHALNK     (uchar: 4)
         User and Compacted Tuple Layout     CKTLNK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            cktname            |*******************************|
    |---------------+---------------+---------------+---------------|
    |               |       |                                       |
  4 |   nearpsu_ca  |  link |***************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     nearpsu_ca  DMPSUCA      (uchar)
     link        DMPHALNK     (uchar: 4)
           Stored Tuple Layout   CKTLNK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |       |                                       |
  0 |   nearpsu_ca  |  link |***************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLcktlnk

**Relation Description** Maps PHA circuit name to it's link number
This provides the mapping between PHA circuit name and the link number. This is an inverse relation of RLpsulnk.

**Attribute: cktname**

**Fullname:** Circuit Name (key)

**Attribute Description** Circuit name of PHA or it's mate PHA.

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**Attribute: link**

**Fullname:** Link Number

**Attribute Description** Link number

**Attribute: nearpsu_ca**

**Fullname:** Near End PSU Community Address

**Attribute Description** PSU community address of the originating PSU. Key attribute.

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# CL_MATES

## 1. Description

Relation containing the module numbers of all members of an RSM cluster.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| ks key store | DBNO |
| head table size | 512 |
| data page size | 512 |
| page level | 1 |

## 3. Field Layout

```
CL_MATES    relid = 579   DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     mate        DMMODULE     (ushort: 8)     <--- key, not stored
     dummy       DMSHORT      (short)
         User and Compacted Tuple Layout   CL_MATES
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                |                                               |
  0 |      mate      |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  4 |             dummy              |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     dummy       DMSHORT      (short)
           Stored Tuple Layout     CL_MATES
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |             dummy              |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLcl_mates

**Relation Description** Module number of all members of an RSM cluster. Information concerning this section is not available at this time.

**Attribute: mate**

**Fullname:** module number of a mate RM
**Attribute Description** Information concerning this section is not available at this time.

**Attribute: dummy**

**Fullname:** dummy field
**Attribute Description** Is always 0.

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# CLCI_G

## 1. Description

CLCI's code associated with trunk view. This is a storage relation for CLCIs code.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 5000 |
| expected tuples | 500 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LP |
| application | CCS |
| relation type | DBSTORAGE |
| head table size | 1024 |
| data page size | 256 |
| page level | 2 |
| index length | 9 |
| ks key store option | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel generated key index | rlCLCI_I |

## 3. Field Layout

```
CLCI_G      relid = 1673  DBSTORAGE  DBACC_GK    DBPRAM    LP      CCS
     gkCLCI_G    DMGK14       (ulong: 14)     <--- key, not stored
     clcitrk     DMCTXT4      (array [ 4 ] of char )
         User and Compacted Tuple Layout     CLCI_G
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkCLCI_G             |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  4 |                            clcitrk                              |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     clcitrk     DMCTXT4      (array [ 4 ] of char )
           Stored Tuple Layout   CLCI_G
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  0 |                         GK LINK FIELD                           |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  4 |                            clcitrk                              |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLclci_g

There are no population rules for this relation.

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# CLEI_G

## 1. Description

Storage relation for RC_CLEI.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2528 |
| expected tuples | 100 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTORAGE |
| head table size | 256 |
| intermediate page size | 256 |
| data page size | 512 |
| page level | 3 |
| index length | 0 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel reverse index | rlCLEI_I |

## 3. Field Layout

```
CLEI_G      relid = 1675  DBSTORAGE  DBACC_GK    DBPRAM    LP      RCDATA
     gkCLEI_G    DMGK14       (ulong: 14)     <--- key, not stored
     cleipk0     DMTEXT10     (array [ 10 ] of char )
     cleipk1     DMTEXT10     (array [ 10 ] of char )
     cleipk2     DMTEXT10     (array [ 10 ] of char )
     cleipk3     DMTEXT10     (array [ 10 ] of char )
     cleipk4     DMTEXT10     (array [ 10 ] of char )
     cleipk5     DMTEXT10     (array [ 10 ] of char )
     cleipk6     DMTEXT10     (array [ 10 ] of char )
     cleipk7     DMTEXT10     (array [ 10 ] of char )
     cleipk8     DMTEXT10     (array [ 10 ] of char )
     cleipk9     DMTEXT10     (array [ 10 ] of char )
     cleipk10    DMTEXT10     (array [ 10 ] of char )
     cleipk11    DMTEXT10     (array [ 10 ] of char )
     cleipk12    DMTEXT10     (array [ 10 ] of char )
     cleipk13    DMTEXT10     (array [ 10 ] of char )
     cleipk14    DMTEXT10     (array [ 10 ] of char )
     cleipk15    DMTEXT10     (array [ 10 ] of char )
         User and Compacted Tuple Layout     CLEI_G
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkCLEI_G             |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  4 |                           cleipk0                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
  8 |                           cleipk0                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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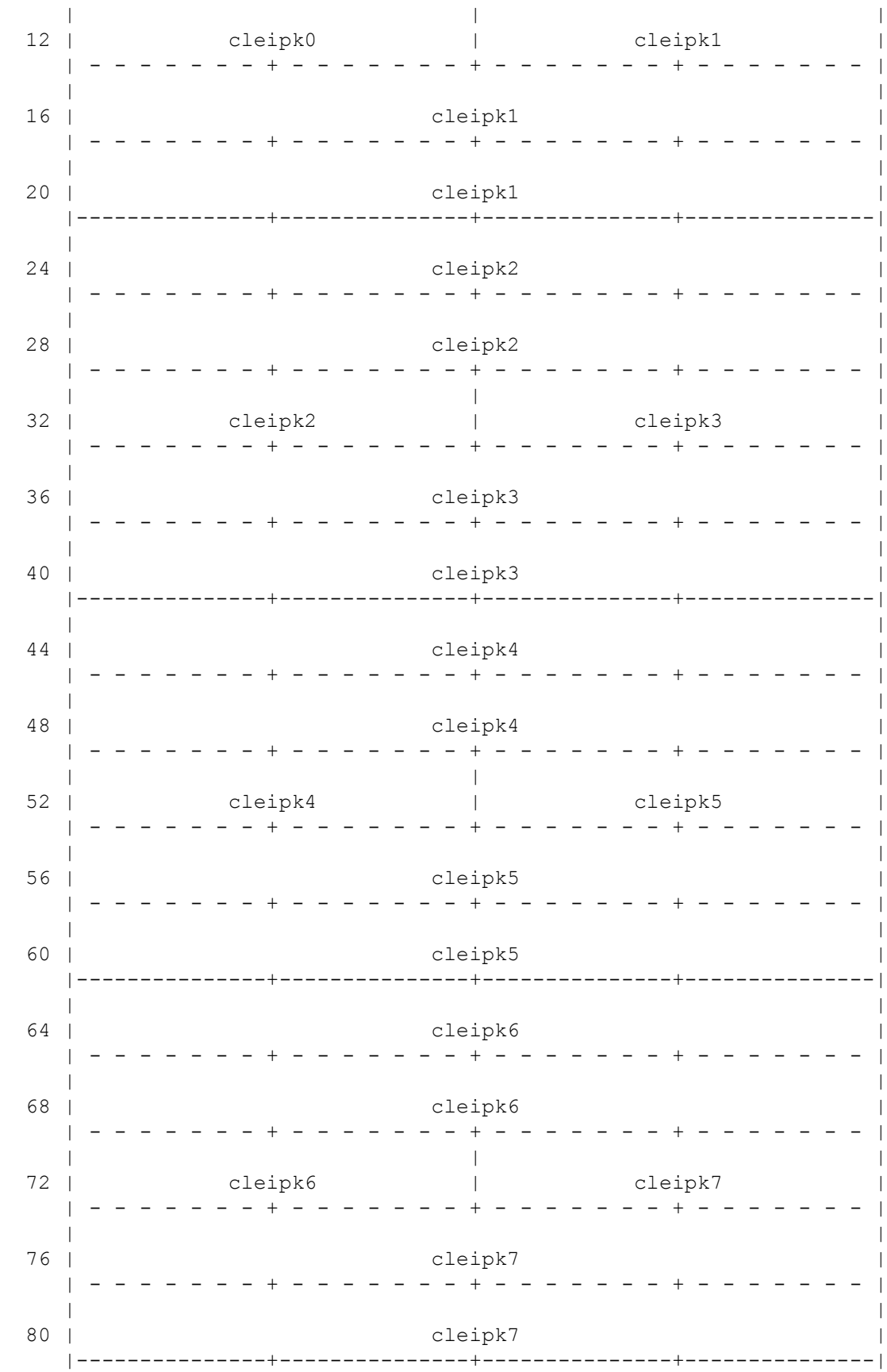


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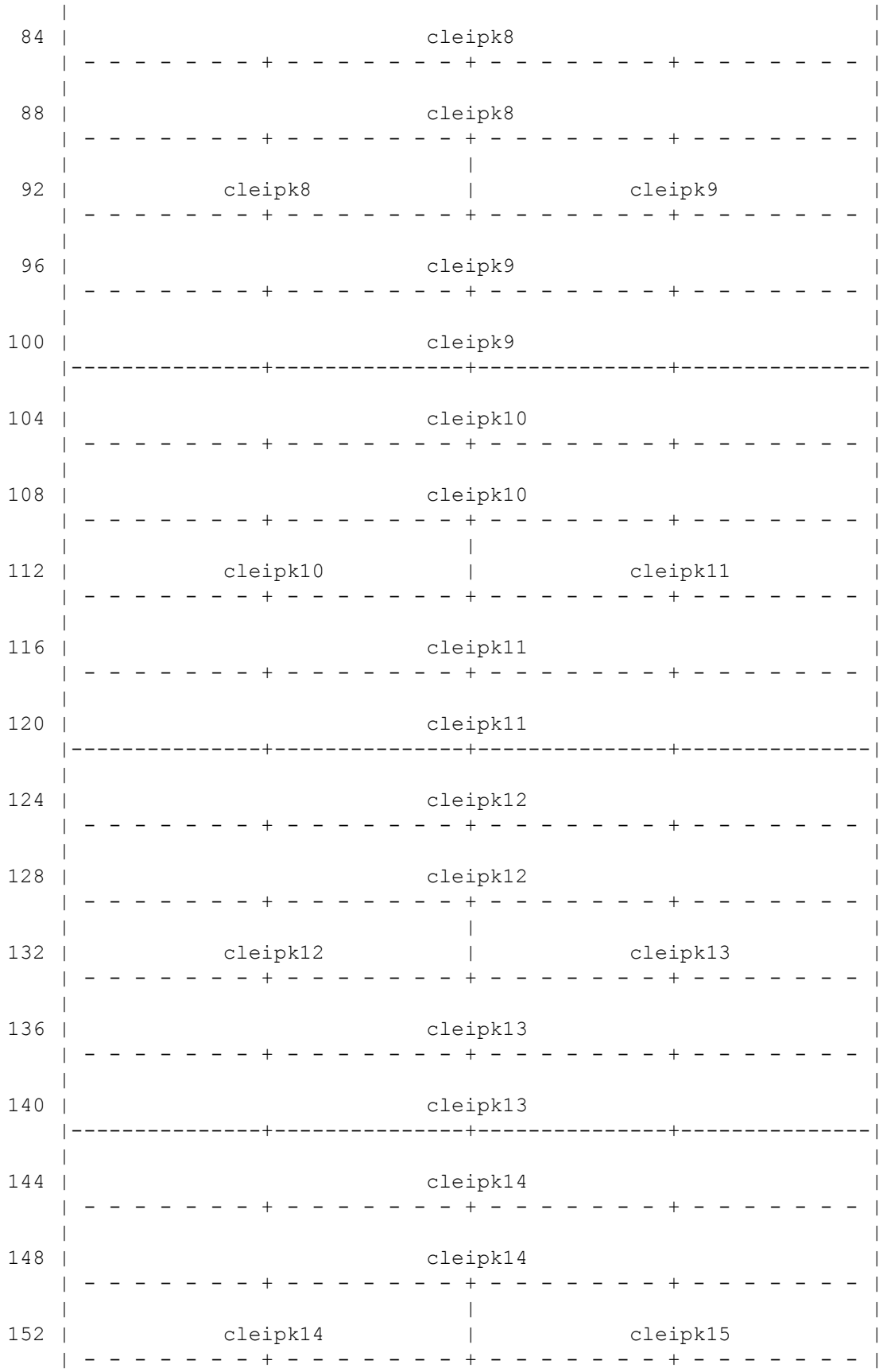


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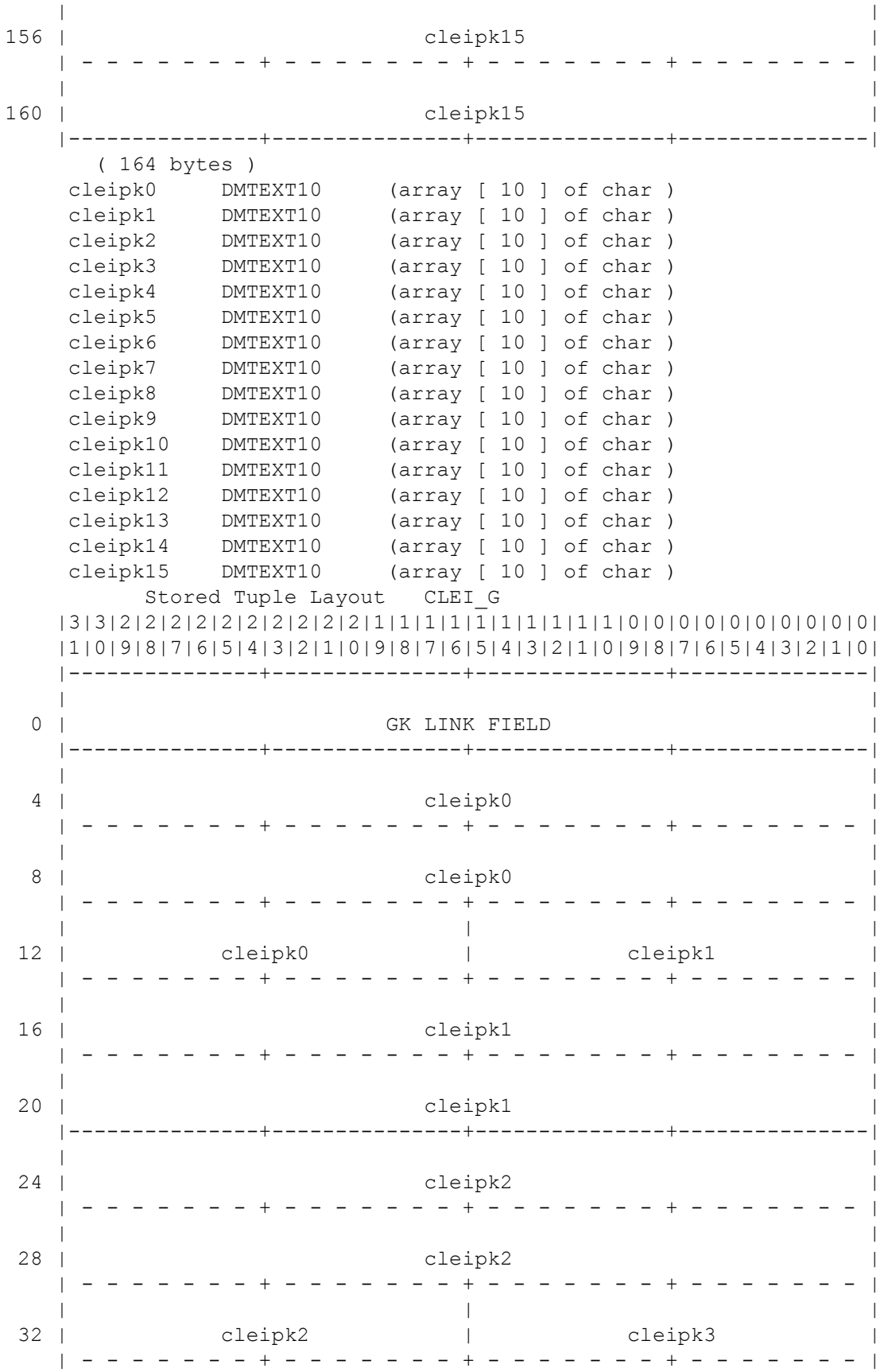


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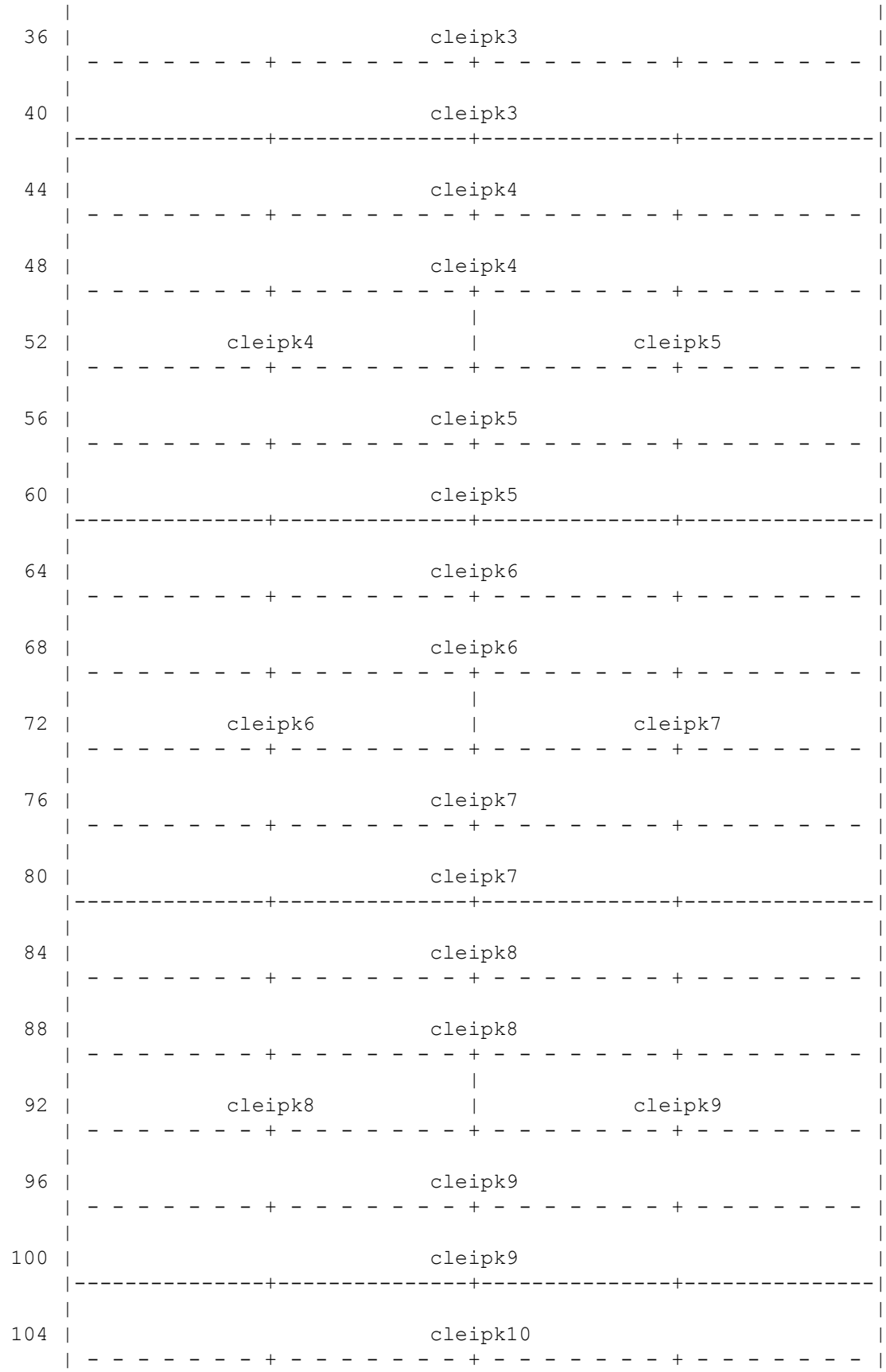


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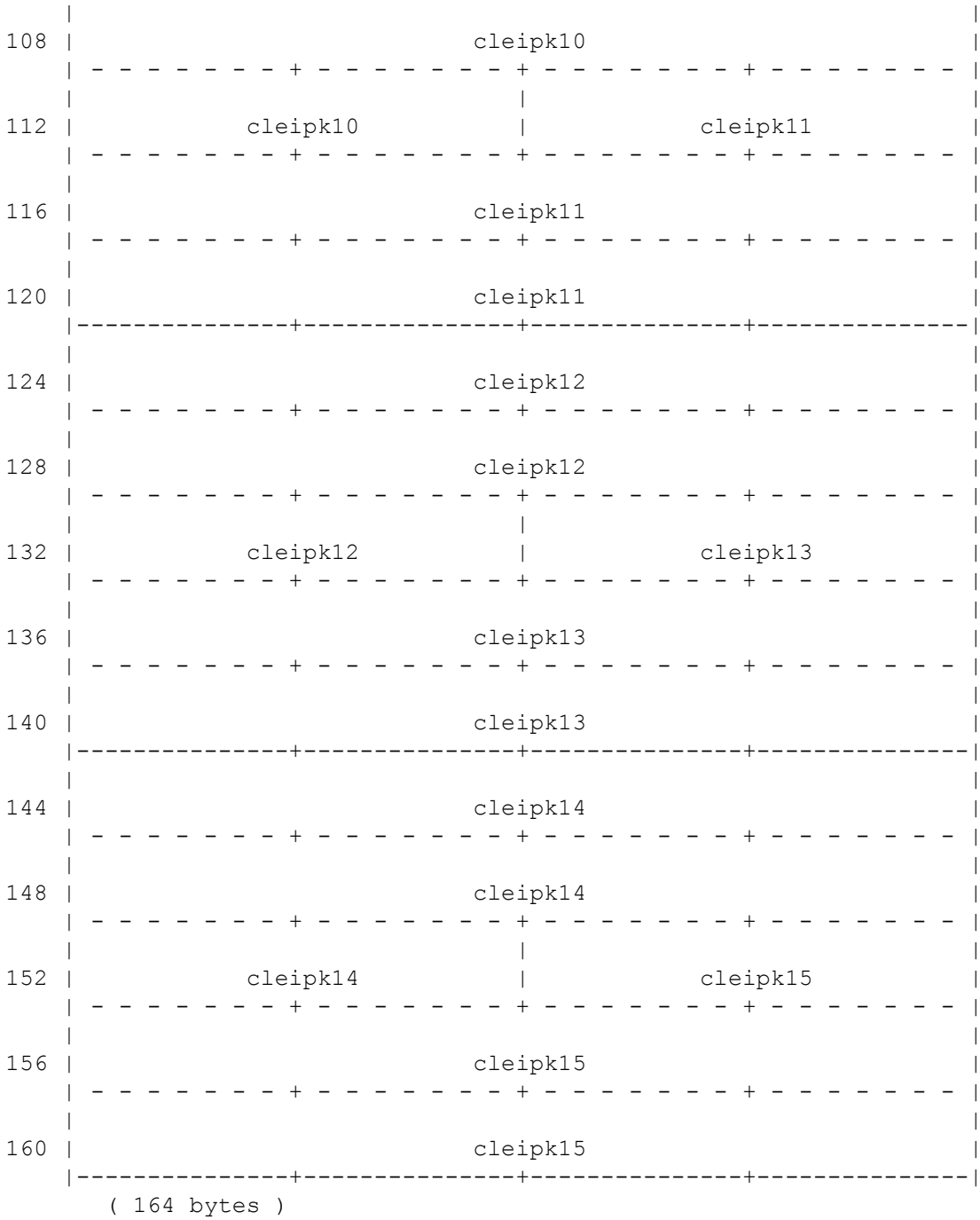


## 4. Population Rules for RLclei_g

There are no population rules for this relation.

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# CLEI_R

## 1. Description

This is the Root storage relation for RC_CLEI.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2528 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTORAGE |
| l1 length of subkey1 | 8 |
| p1 position of subkey1 | 16 |
| l2 length of subkey2 | 4 |
| p2 position of subkey2 | 0 |
| l3 length of subkey3 | 7 |
| p3 position of subkey3 | 8 |
| l4 length of subkey4 | 5 |
| p4 position of subkey4 | 24 |
| l5 length of subkey5 | 4 |
| p5 position of subkey5 | 4 |
| ks key store | AUTO |
| permutation type | perm |

## 3. Field Layout

```
CLEI_R      relid = 1677  DBSTORAGE  DBACC_CIND  DBPRAM    LP      RCDATA
     im          DMMODULE     (ushort: 8)     <--- key, not stored
     unittype    DMUNITTYPE   (enum: 7)     <--- key, not stored
     unit_no     DMUNITNO     (ushort: 8)     <--- key, not stored
 (a) service_group  DMUNS5       (ushort: 5)     <--- key, not stored
     clei_ptr    DMGK14       (ulong: 14)
         User and Compacted Tuple Layout     CLEI_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |             | |               |         |     |
  0 |       im      |   unittype  |*|    unit_no    |    a    |*****|
    |---------------+---------------+---------------+---------------|
    |                             |                                 |
  4 |          clei_ptr           |*********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     clei_ptr    DMGK14       (ulong: 14)
           Stored Tuple Layout   CLEI_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                             |                                 |
  0 |          clei_ptr           |*********************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLclei_r

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There are no population rules for this relation.

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# CLIDAT

## 1. Description

Relation containing certain specific information about each remotely located cluster of modules.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 174 |
| expected number of tuples | 1 |
| density | 56 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFG |
| relation type | DBSTATIC |
| trigger function | DBclidattrg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
CLIDAT      relid = 581   DBSTATIC   DBACC_CIND  DBPRAM    LRFG    NULL
     clid         DMCLUSTER    (ushort: 8)     <--- key
     text         DMTEXT15     (array [ 15 ] of char )
     rm_cnt       DMUNS5       (ushort: 5)
     rm_alm_in    DMMODULE     (ushort: 8)
     rm_alm_out   DMMODULE     (ushort: 8)
     rm_clk       DMMODULE     (ushort: 8)
     rm_mtb       DMMODULE     (ushort: 8)
     rm01         DMSHORT      (short)
     rm02         DMSHORT      (short)
     rm03         DMSHORT      (short)
     rm04         DMSHORT      (short)
     rm05         DMSHORT      (short)
     rm06         DMSHORT      (short)
     rm07         DMSHORT      (short)
     rm08         DMSHORT      (short)
     rm09         DMSHORT      (short)
     rm10         DMSHORT      (short)
     irm01        DMSHORT      (short)
     irm02        DMSHORT      (short)
     irm03        DMSHORT      (short)
     irm04        DMSHORT      (short)
     irm05        DMSHORT      (short)
     irm06        DMSHORT      (short)
     irm07        DMSHORT      (short)
     irm08        DMSHORT      (short)
     irm09        DMSHORT      (short)
     irm10        DMSHORT      (short)
         User, Compacted and Stored Tuple Layout CLIDAT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
```

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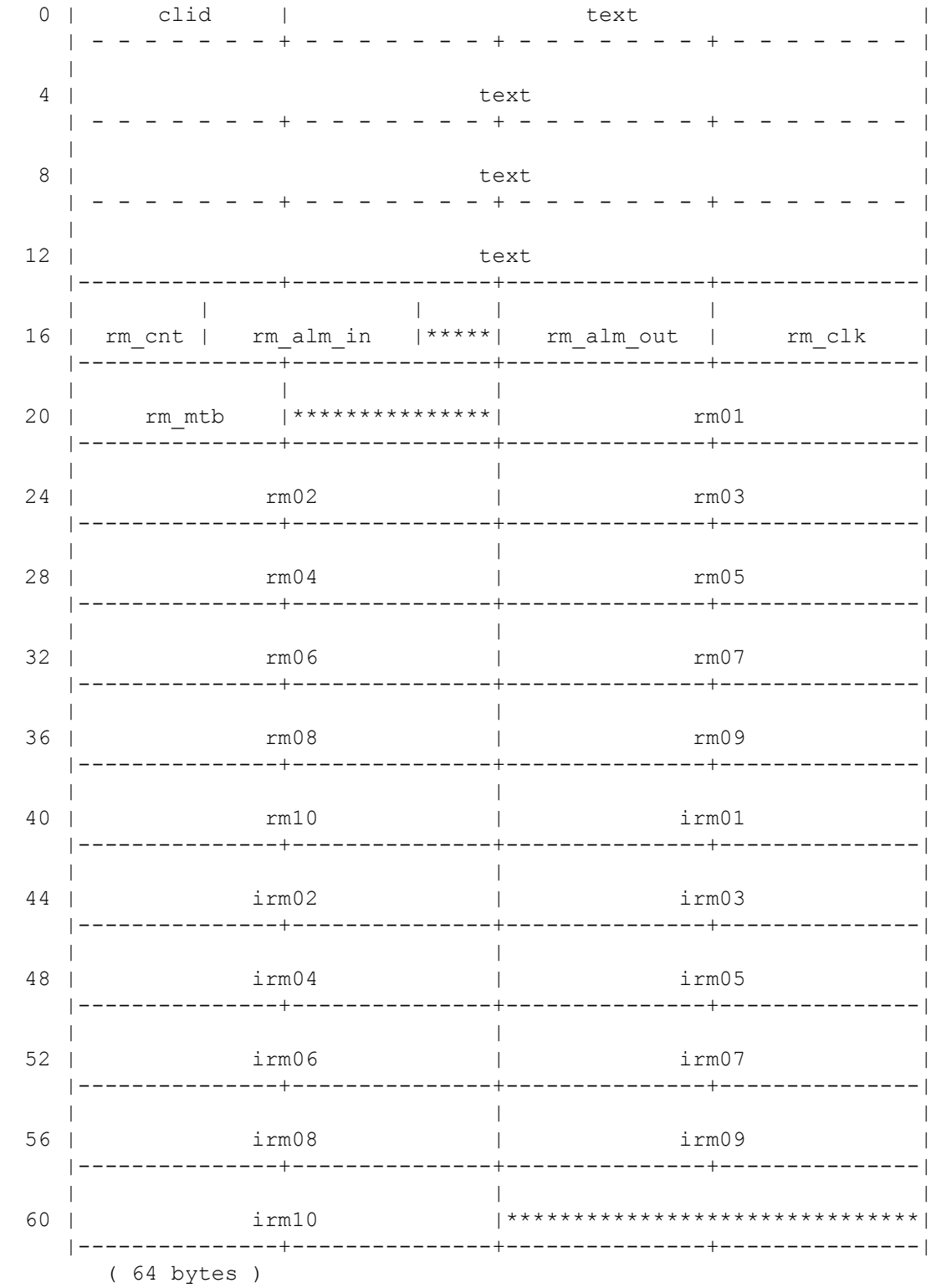


## 4. Population Rules for RLclidat

**Relation Description** This relation contains certain specific information about each remotely located cluster of modules.

This relation is to be Group Partitioned. The grp_type (partitioning class) is GPDAMCL_COM, and the grp_id is the

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cluster id (clid). Since each RSM/ORM/TRM has a unique cluster id (clid), the CLIDAT relation will have exactly one tuple. A copy of this will also appear in the CLIDAT relation in the AM, as well as in each of the RMs in the cluster. The AM will have as many tuples as there are distinct clusters.
A tuple will exist in this relation only if there exists at least one equipped RSM, ORM, or TRM (that is, equipage state = SMOPER.) (During Growth, a new tuple may be added with no modules, but this should be only a transitional state.) Modules in unequipped states will not appear.

**Attribute: clid**

**Fullname:** remote cluster number

**Attribute Description** This is the identification number of the set of modules which comprise the cluster. The recommended convention in assigning cluster numbers is to number them consecutively beginning with 1. Note that this association of cluster number with associated module number is inverted in RLMODATT in the AM and in RLCL_MATES in the RMs. Even though the domain DMCLUSTER runs from 0 to 174, the number 0 is reserved to represent the case of not being a member of any cluster (that is, not a member of any remote cluster - RSM, ORM, or TRM) in the inverted relation module-->clid.

**Attribute: text**

**Fullname:** cluster title

**Attribute Description** This attribute holds a string of up to 15 characters. It is a text identification of the cluster and may contain any comment. However, it is expected to be used to title display pages and the like and was intended to carry a title for the cluster (such as Brokenburg, MCI POP, etc.) If there are less than 15 characters in the string, it should be padded with binary zeros.

**Attribute: rm_cnt**

**Fullname:** Number of modules in the cluster.

**Attribute Description** This attribute should contain the number of modules assigned to this cluster. This number must be less than or equal to Glmaxclsz for RSMs and must be equal to 1 for ORMs and TRMs.

**Attribute: rm_alm_in**

**Fullname:** The module number of module that has the remote alarm input option.

**Attribute Description** This attribute holds the module number (1-192) of the module that has the remote alarm input option. Only one module in a RSM cluster may have the remote alarm input option. Zero is used to indicate that no module in the cluster is equipped with the remote alarm input option. The default value is zero. The module number specified in rm_alm_in, rm_alm_out, rm_clk, and rm_mtb, if different from zero, must all be the same.

**Attribute: rm_alm_out**

**Fullname:** The module number of the module that has the remote alarm output option.

**Attribute Description** This attribute holds the module number (1-192) of the module that has the remote alarm output option. Only one module in a RSM cluster may have the remote alarm output option. Zero is used to indicate that no module in the cluster is equipped with the remote alarm output option. The default value is zero. The module number specified in rm_alm_in, rm_alm_out, rm_clk, and rm_mtb, if different from zero, must all be the same.

**Attribute: rm_clk**

**Fullname:** The module number of the module that has the remote clock unit.

**Attribute Description** This attribute holds the module number (1-192) of the module that has the

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Remote Clock Unit. Only one module in a RSM cluster may have the Remote Clock Unit. ORMs and TRMs are not equipped with a Remote Clock Unit, so this field will always be zero in those modules. Zero is used to indicate that no module in the cluster is equipped with the Remote Clock Unit. The default value is zero. The module number specified in rm_alm_in, rm_alm_out, rm_clk and rm_mtb, if different from zero, must all be the same.

**Attribute: rm_mtb**

**Fullname:** The module number of the module from which the metallic test bus connections are made to peripheral units in the other RSMs.

**Attribute Description** A multimodule RSM normally has only one MMSU. This situation may not be true if two or more 5A RSMs are combined to form a multimodule RSM. In the latter case multiple MMSUs could exist at the site. Metallic testing is limited to a single shelf of each MMSU on the MMRSM. The metallic test interconnect bus (MTIB) is only connected between service groups of the first shelf of each of these MMSUs and does not connect to other MMSUs. Metallic test bus (MTB) connections from peripheral units must connect to either the metallic access of the MMSU on the RSM with the peripheral units or to the metallic access of the MMSU on the RSM specified as having the global resource for metallic testing (master). Where two or more 5A RSMs, each of which has an MMSU, are combined into a single multimodule office, MTB connections from other MMSUs may be either left as is or moved to the metallic access of the MMSU on the master RSM. The attribute rm_mtb gives the module number (1-192) of the RSM having the MMSU on the master RSM. The default value is zero.

For ORMs and TRMs, the attribute rm_mtb is always set equal to the module number (1-192) if that module has a MMSU equipped. If the attributes rm_alm_in or rm_alm_out are set to a non-zero value, then rm_mtb should be set to the same value.

The module number specified in rm_alm_in, rm_alm_out, rm_clk and rm_mtb, if different from zero, must all be the same. The rm_mtb attribute should be changed to a non-zero value if and only if an MTB assignment is made from the MMSU of a RSM to a peripheral circuit in another RSM in the same MMRSM cluster. The rm_mtb attribute then should be set equal to the module number of the RSM where the connecting MMSU resides. That RSM is indicated by the module number part of the MTB number that is being assigned. If a peripheral circuit is grown whose MTB is connected to a MMSU existing in the same module, rm_mtb should not be changed. No MTB assignment should be allowed to any peripheral circuit on a module in one MMRSM cluster(site) from another site. Each tuple in this relation represents one site.

**Attribute: rm[*]**

**Fullname:** These remote member attributes hold the module numbers of the cluster.

**Attribute Description** These remote member attributes are populated with the module numbers assigned to this cluster. Attributes that are not assigned should be populated with zero. Modules may be listed in any order (no correlation with any physical property is implied).

Non-zero values are allowed for rm01 through rmNN for RSMs where NN is Glmaxclsz. For ORMs and TRMs, rm01 should be set to the module number for that module. Attributes rm02 through rmNN should be set to zero.

Whenever possible, RSM non-zero attributes should be consecutive starting with rm01. If holes develop through degrowth, they should be filled when growing the next RM. The remote member attribute rmXX defines a relative member number XX. Other relations that use the remote member number should be consistent with the assignment made in this relation. Examples are RLmodatt.r, RLmatatt.r, and GLcl_offset.

**Attribute: irm[*]**

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**Fullname:** ISDN remote module of the specified cluster ID.

**Attribute Description** These ISDN remote member attributes are populated with the ISDN module numbers assigned to this cluster.

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# CLLI_G

## 1. Description

Storage relation for CLLI code (near end and far end).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected tuples | 50 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LP |
| application | CCS |
| relation type | DBSTORAGE |
| head page size | 1024 |
| data page size | 512 |
| page level | 2 |
| index length | 9 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel reverse index | rlCLLI_I |

## 3. Field Layout

```
CLLI_G      relid = 1678  DBSTORAGE  DBACC_GK    DBPRAM    LP      CCS
     gkCLLI_G    DMGK14       (ulong: 14)     <--- key, not stored
     clli        DMCLLI       (array [ 11 ] of char )
         User and Compacted Tuple Layout     CLLI_G
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkCLLI_G             |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  4 |                              clli                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
    |                                                                 |
  8 |                              clli                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
    |                                                 |               |
 12 |                      clli                       |***************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
     clli        DMCLLI       (array [ 11 ] of char )
           Stored Tuple Layout   CLLI_G
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  0 |                         GK LINK FIELD                           |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  4 |                              clli                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
```

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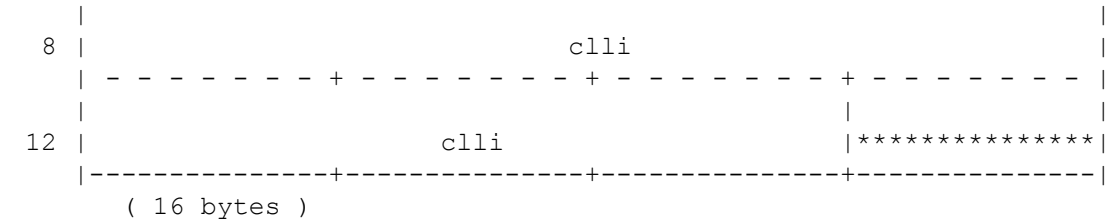


## 4. Population Rules for RLclli_g

There are no population rules for this relation.

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# CLRKINFO

## 1. Description

Clerk information file.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
CLRKINFO    relid = 442   DBSTATIC   DBACC_LIN   DBPRAM    LP      RCMAP
     clrknm      DMTEXT10     (array [ 10 ] of char )
     clrkid      DMSHORT      (short)     <--- key
 (a) verbose     DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout   CLRKINFO
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                             clrknm                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                             clrknm                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  8 |             clrknm            |             clrkid            |
    |---------------+---------------+---------------+---------------|
    | |                                                             |
 12 |a|*************************************************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLclrkinfo

**Relation Description** Clerk information relation. This relation is populated only through recent change (RC) batch time release process. Each tuple contains the clerk identification number and clerk name (this is the actual name of the Batch file). Each tuple is created when the process starts, and is removed when the clerk file is released. Moreover, each tuple is associated to a RC batch process. Because RC Batch process is not allowed during a generic retrofit, ODA does not need to populate this relation.
One tuple for each clerk who does the release.

**Attribute: clrkid**

**Fullname:** Clerk Identification Number
**Attribute Description** Unique clerk identification number for the service provider clerk. The size of this field can't be changed.

**Attribute: clrknm**

**Fullname:** Clerk name.

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**Attribute Description** The actual file name of the Batch file as a string of 10 alphanumeric.

**Attribute: verbose**

**Fullname:** Verbose option.
**Attribute Description** Print out one line logging message after one RC transaction is completed if its value is DBYES. The default is DBNO.

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# CLS_LS

## 1. Description

Combined Link Set component relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 256 |
| expected number of tuples | 2 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCcls |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
CLS_LS      relid = 2358  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     cls          DMUNS10      (ushort: 10)     <--- key
 (a) ls_sel       DMLSSEL      (enum: 2)
     ls1          DMUNS10      (ushort: 10)
     ls2          DMUNS10      (ushort: 10)
         User, Compacted and Stored Tuple Layout CLS_LS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |   |       |                   |           |
  0 |        cls        | a |*******|        ls1        |***********|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  4 |        ls2        |*******************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLcls_ls

**Relation Description** Combined Link Set to Link Sets mapping
This relation defines the components of the combined link set. The components must be two distinct link sets.

**Attribute: cls**

**Fullname:** Combined link set

**Attribute Description** This attribute defines the combined link set.

**Attribute: ls1**

**Fullname:** First component link set

**Attribute Description** This attribute defines the first component link set of the combined link set.

**Attribute: ls2**

**Fullname:** Second component link set

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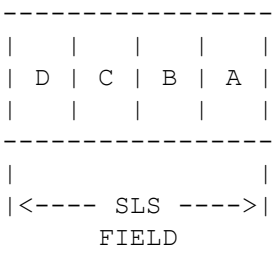
**Attribute Description** This attribute is the second component link set of the combined link set.

**Attribute: ls_sel**

**Fullname:** linkset selector

**Attribute Description** The ls_sel attribute indicates the bit chosen in SLS field to be used for selecting the linkset in the combined linkset.

The valid values are in the set {CCLS_D, CCLS_C, CCLS_B, CCLS_A}.

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# CLU_CLIX

## 1. Description

This relation will map clusters to cluster indexes for clusters which have equipped cluster routesets.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 6400 |
| expected number of tuples | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| relation type | DBSTATIC |
| distribution | FP |
| permutation type | un_perm |

## 3. Field Layout

```
CLU_CLIX    relid = 3127  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL


     cluster     DMCLUST_ID   (ulong: 16)       <--- key
     clix        DMCLIX       (ushort: 13)
         User, Compacted and Stored Tuple Layout   CLU_CLIX
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                           |     |
  0 |            cluster            |           clix            |*****|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population rules for RLclu_clix

### Relation Description

```
        Cluster to cluster index mapping relation.

        This relation will map clusters to cluster-indexes for
        clusters which have equipped cluster routesets.
```

**Attribute:**

```
        cluster
```

**Fullname:**

```
        Cluster Identifier
```

**Attribute Description:**

```
        Cluster Identifier, top 16 bits of 24-bit point code for NAR.
```

**Attribute:**

```
        clix
```

**Fullname:**

```
        Cluster Index
```

**Attribute Description:**

```
        Cluster Index (key to RLclu_info and dynamic RLclu_stat)
```

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**Defines:**

```
        "ccs/CCc7_param.h"
```

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# CLU_INFO

## 1. Description

This relation stores routeset information for equipped cluster routesets.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 6400 |
| expected number of tuples | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| relation type | DBSTATIC |
| distribution | FP |
| trigger function | CCclu_info |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
CLU_INFO    relid = 3136  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     clix        DMCLIX       (ushort: 13)      <--- key
     cluster     DMCLUST_ID   (ulong: 16)
 (a) xlist_alw   DMBOOL       (enum: 1)
     norm_rte    DMCLNK_SET   (ushort)
     alt_rte1    DMCLNK_SET   (ushort)
     alt_rte2    DMCLNK_SET   (ushort)
         User, Compacted and Stored Tuple Layout   CLU_INFO
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           |                               | |   |
  0 |           clix            |            cluster            |a|***|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            norm_rte           |            alt_rte1           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            alt_rte2           |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )


domain alCLU_INFO struct  (5 sub-attributes)
         clix        .2.fake      (ushort: 13)
         cluster     .3.fake      (ulong)
 (a)     xlist_alw   .0fake       (enum)
         norm_rte    unsigned short (ushort)
         alt_rte     .4.fake      (array [ 2 ] of unsigned short )
                     Structure Layout    alCLU_INFO
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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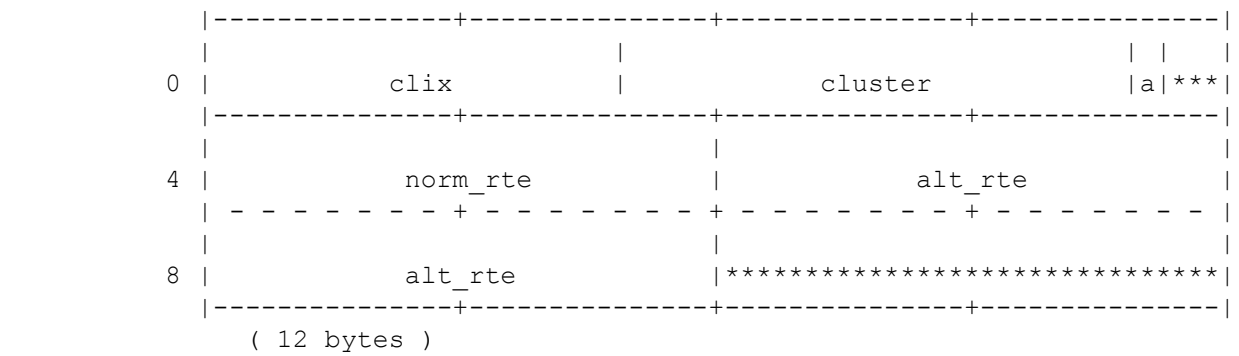


## 4. Population rules for RLclu_info

### Relation Description

Cluster Information Relation.

This relation stores routeset
information for equipped cluster routesets.

**Attribute:**
clix
**Fullname:**
Cluster Index
**Attribute Description:**
Cluster Index (key to dynamic RLclu_stat).

**Attribute:**
norm_rte
**Fullname:**
Normal Route
**Attribute Description:**
Normal Route, linkset (key to RLls_grp, RLls_clust) or combined linkset (key to RLcls_ls).

**Attribute:**
alt_rte1
**Fullname:**
Alternate Route 1
**Attribute Description:**
Alternate Route, linkset (key to RLls_grp, RLls_clust) or combined linkset
(key to RLcls_ls).

**Attribute:**
alt_rte2
**Fullname:**
Alternate Route 2

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**Attribute Description:**
Alternate Route, linkset (key to RLls_grp, RLls_clust) or combined linkset
(key to RLcls_ls).

**Attribute:**
xlist_alw
**Fullname:**
X-list allowed indicator
**Attribute Description:**
Indicates whether an X-list should be kept for this cluster routeset or not, to track the remote status of cluster members with a more restrictive status than the cluster as a whole.

**Attribute:**
cluster
**Fullname:**
Cluster Identifier
**Attribute Description:**
Cluster Identifier, top 16 bits of 24-bit point code for NAR; key to RLclu_clix.

**Defines:**
"db/DBls_stat.h",
"ccs/CCc7_param.h"

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# CLUAPCI

## 1. Description

This relation will map the combination of a cluster and APCI to an unique index. The index will be used as a key to the new dynamic relation RLclapcrdb, which will own all routing data blocks for associated member routes (RLs7rdb tuples associated with DPCs in that cluster, representing routes through that APCI) and the cluster routes (RLclu_rdb tuples) through that APCI. This will make it easy to find all the affected routes when a TCx message regarding the cluster is received from the adjacent STP with that APCI.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 38400 |
| expected number of tuples | 600 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| relation type | DBSTATIC |
| distribution | FP |
| trigger function | CCcluapci |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
CLUAPCI     relid = 3124  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL


     cluster     DMCLUST_ID   (ulong: 16)       <--- key
     apci        DMAPCI       (uchar)   <--- key
     clapci      DMCLAPCI     (ushort)
     rdb_cnt     DMCOUNT      (ushort)
         User, Compacted and Stored Tuple Layout    CLUAPCI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |             cluster           |      apci     |***************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              clapci           |            rdb_cnt            |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLcluapci

### Relation Description

```
        Cluster-APCI to index mapping relation.

        This relation will map the combination of a cluster and APCI
        to an unique index.  The index will be used as a key to the
        new dynamic relation RLclapcrdb, which will own all routing
        data blocks for associated member routes (RLs7rdb tuples
        associated with DPCs in that cluster, representing routes
```

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through that APCI) and the cluster routes (RLclu_rdb tuples) through that APCI. Thiswill make it easy to find all the affected routes when a TCx message regarding the cluster is received from the adjacent STP with that APCI.

**Attribute:**
cluster
**Fullname:**
Cluster ID
**Attribute Description:**
Cluster (top 16 bits of 24-bit DPC).. Key to RLclu_clix.

**Attribute:**
apci
**Fullname:**
Adjacent Point Code Index
**Attribute Description:**
Index of the Adjacent Point Code. Key to RLapci_apc.

**Attribute:**
clapci
**Fullname:**
Cluster-APCI index
**Attribute Description:**
Cluster-APCI combination index, used for key to dynamic RLclapcrdb.

**Attribute:**
rdb_cnt
**Fullname:**
Count of the cluster-member routes
**Attribute Description:**
Count of the number of cluster + member routes that are associated with this cluster+apci combination. When rdb_cnt goes to zero, the RLcluapci tuple should be deleted.

**Defines:**
"ccs/CCc7_param.h"

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# CMAPDATA

## 1. Description

Relation that contains the site id of an Application Processor and uses this as key to determine the external data link bit map that for IOP data link, indexes into the ECD data base. For DSL data links, the bit position in link_map indicates the relative link number for an AP. The ISLU port number can be determined by referencing RLdslxn or RLxndsl.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 99 |
| expected number of tuples | 2 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LRFR |
| relation type | DBSTATIC |
| trigger function | CMapdtrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
CMAPDATA    relid = 758   DBSTATIC   DBACC_HASH  DBPRAM    LRFR    NULL
     ffcf3       DMHEX16      (ushort)
     site_id     DMAPSITE     (ushort: 8)     <--- key
     module      DMMODULE     (ushort: 8)
     secapsiteid  DMAPZSITE    (ushort: 8)
     apindex     DMAPINDX     (ushort: 7)
 (a) alarm       DMBOOL       (enum: 1)
     ffcf2       DMUNS7       (ushort: 7)
 (b) use_isvm    DMBOOL       (enum: 1)
 (c) use_iddd15  DMBOOL       (enum: 1)
 (d) use_spr1    DMBOOL       (enum: 1)
 (e) use_spr2    DMBOOL       (enum: 1)
 (f) use_spr3    DMBOOL       (enum: 1)
 (g) is_alt      DMBOOL       (enum: 1)
 (h) esa         DMBOOL       (enum: 1)
 (i) alw_dup_nxx  DMBOOL       (enum: 1)
 (j) ffcf1       DMBOOL       (enum: 1)
     link_map    DMAPDLMAP    (long)
         User, Compacted and Stored Tuple Layout   CMAPDATA
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |             ffcf3             |    site_id    |     module    |
    |---------------+---------------+---------------+---------------|
    |               |             | |             | | | | | | | | |
  4 |  secapsiteid  |   apindex   |a|    ffcf2    |b|c|d|e|f|g|h|i|j|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                           link_map                            |
    |---------------+---------------+---------------+---------------|
```

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```
( 12 bytes )
```

## 4. Population Rules for RLcmapdata

**Relation Description** Bit Map Data
Relation that contains the site ID of an application processor (AP) and uses this as the key to determine the external data link bit map that for input/output processor (IOP) data link, indexes into the equipment configuration database (ECD). For digital subscriber line (DSL) data links, the bit position in link_map indicates the relative link number for an AP. The ISLU port number can be determined by referencing RLdslxn or RLxndsl.
In the 5E3(1) generic, client processes in the *5ESS*®-2000 switch that wish to send data to an AP used the AP communication package, and routed these messages through the IOP in the administrative module (AM). In 5E4(2), the messages could also be routed through an integrated services digital network (ISDN) switching module (SM). To handle the 5E3(1) generic, this relation provides a mapping from the office-dependent database (ODD) to the ECD. The link_map defines the index into a string array that identifies the remote user names that are allowed in the ECD for external data links to be used by the application processor communication package. The module attribute gives the processor that controls the data links to the AP. In 5E3(1) this processor was the AM; in 5E4(2) this processor could be an ISDN SM.
Beginning in 5E4(2), APs on ISDN SMs will use the bit position in the link_map attribute to indicate the relative link number for a given AP (APn-k). The relative link number can be converted to a corresponding port on an integrated services line unit (ISLU) by referencing either RLdslxn or RLxndsl as described here.
In the 5E7 generic, once the existing site_id becomes E911 site_id, no other AP feature can use this site_id. Recent change/verify (RC/V) cannot block making an existing site_id a new E911 site_id when the site_id is assigned to other features.
In the 5E9(1) generic, AP link diversification is adding the capability to link an AP to 2 ISDN SMs. This relation is being updated to add two fields, secapsiteid and is_alt, to store this secondary link information. This feature does not apply to E911.
Also in 5E9(1), dual ESA for E911 is adding the capability to allow a *5ESS*®-2000 switch to define two E911 application processor IDs (APIDs), one as a primary and one as a secondary. The fields used by AP link diversification will also be used for dual ESA for E911 (secapsiteid and is_alt).
In 5E9(2) the Dual ESA Enhancements Special Feature uses a boolean "esa" to indicate that an office is an ESA.
In 5E10 the International Direct Distance Dialing 15-Digit Expansion Feature (IDDD15) uses a boolean "use_iddd15" to indicate that the AP site requires existing format (default) or expanded format messages.

**Attribute: site_id**

**Fullname:** Site Identification

**Attribute Description** The site identification number can be any number from 1 to 255, and must uniquely identify the AP to the switch. This number is used by the AP capabilities to indicate where messages should be routed. The assignment of this number must be consistent with their usage.

**Attribute: apindex**

**Fullname:** AP Index for *5ESS*®-2000 Switch Use

**Attribute Description** The AP index is an integer between 1 and DBMAXAPS(99), and is used by the AP communication package to refer to the AP. This number must be unique to each site identifier.
This value will be generated internally by Recent Change or ODA in a sequential manner such that: APs hosted by AM IOP data links must have an apindex value between 1 and 3 and APs hosted by ISDN SMs will have an apindex value from 4 to DBMAXAPS (99).

**Attribute: module**

**Fullname:** Module Number

**Attribute Description** In 5E3(1) this attribute was set to 0 since only the AM controls data links to

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an application processor.
Starting in 5E4(2), APs hosted by ISDN SMs have module values consistent with SM number.
Each AP must be connected to one, and only one, ISDN SM with DSL data links.

**Attribute: alarm**

**Fullname:** Alarm

**Attribute Description** This field indicates whether the user desires alarms to be activated (DBYES) or not (DBNO) when the DSL data links from an ISDN SM to the AP are out of service. This bit is always set (DBYES) for AM IOP data links to APs.

**Attribute: use_isvm**

**Fullname:** Indicates the associated AP 'site_id' is used for ISVM feature.

**Attribute Description** The field, use_isvm, is set to DBYES if the associated AP 'site_id' is used for ISVM, otherwise, it is set to DBNO.

If the AP site_id is used for E911 feature, then verify that use_isvm must equal DBNO

**Attribute: use_iddd15**

**Fullname:** Use IDDD15 Format Messages

**Attribute Description** This field indicates that the associated AP has been modified to accept expanded format messages associated with IDDD15 feature and the IDDD15 secured feature (SFID223) is active if it is set to DBYES, otherwise, it is set to DBNO and existing formats are used.

**Attribute: use_spr1**

**Fullname:** Spare

**Attribute Description** Spare field.

**Attribute: use_spr2**

**Fullname:** Spare

**Attribute Description** Spare field.

**Attribute: use_spr3**

**Fullname:** Spare

**Attribute Description** Spare field.

**Attribute: link_map**

**Fullname:** Bit map of the data link.

**Attribute Description** The 32 bit link_map field will be populated differently for APs hosted via IOP data links in the AM and ISDN DSL data links in an SM. The bits are defined from right to left (low to high) such that bit 0 is the rightmost bit.

AM LINK_MAP RULES:

APs hosted via IOP data links in the AM are no longer supported.

SM LINK_MAP RULES:

For ISDN DSL data links, the bit position represents the relative link number for that AP. For

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example, bit 1 represents relative link 1 for that AP. Bits 1 - 16 (that is, 16 links) are allowed per AP when the AP is on a SM. Bits 1 - 30 (that is, 30 links) are allowed per AP when the AP is on a SM-2000.
Since the only valid apindex values for APs hosted by SMs are 4-99 (for example, AP4, AP5, ... AP99), the links will be referenced in the following format: APx-y, where 'x' is the apindex and 'y' is the relative link number. For example, AP 5, relative link 4 is represented as AP5-4.

To determine the corresponding DSL 'D' channel port number (dport), the relations RLdslxn.G or RLxndsl.G must be referenced.

| APINDEX | Bit Position Number | Relative Link # | External Name |
|---|---|---|---|
| 5 | 0 | - | Not Used |
| 5 | 1 | 1 | AP5-1 |
| 5 | 2 | 2 | AP5-2 |
| 5 | 3 | 3 | AP5-3 |
| . | . | . | . |
| . | . | . | . |
| . | . | . | . |
| 5 | 16 | 16 | AP5-16 (SM Limit) |
| . | . | . | . |
| . | . | . | . |
| . | . | . | . |
| 5 | 30 | 30 | AP5-30 (SM-2000 Limit) |

Bits 0 and 17 to 31 should not be used for ISDN SMs. Bits 0 and 31 should not be used for SM-2000s.

**Attribute: is_alt**

**Fullname:** Indicates the associated AP 'site_id' is used as a secondary AP site.

**Attribute Description** The field, is_alt, is set to DBYES, if the associated AP 'site_id' is used as a secondary 'site_id', otherwise, it is set to DBNO.
If 'site_id' is a non-E911 site and SFID103 is not set, then 'is_alt' must equal DBNO.
If 'site_id' is a E911 site and SFID108 is not set, then 'is_alt' must equal DBNO.

**Attribute: secapsiteid**

**Fullname:** Secondary AP 'site_id'

**Attribute Description** The secapsiteid attribute is used for AP link diversification and dual ESA for E911 special features to define a secondary AP 'site_id'. If this value is non-zero and 'is_alt' is DBNO, then 'secapsiteid' represents the secondary APID. If 'secapsiteid' is non-zero and 'is_alt' is DBYES, then 'secapsiteid' represents the primary APID.
If 'site_id' is a non-E911 site and SFID103 is not set, then 'secapsiteid' must equal zero.
If 'site_id' is a E911 site and SFID108 is not set, then 'secapsiteid' must equal zero.

**Attribute: esa**

**Fullname:** Indicates that processor is an ESA.

**Attribute Description** If esa is set to DBYES the processor is either the primary or the secondary ESA.

**Attribute: ffcf1**

**Fullname:** Boolean reserved for future field features use.

**Attribute Description** Not assigned yet.

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**Attribute: ffcf2**

**Fullname:** Unsigned 8 reserved for future field feature use.

**Attribute Description** Not assigned yet.

**Attribute: ffcf3**

**Fullname:** Unsigned int 16 reserved for future field feature use.

**Attribute Description** Not assigned yet.

**Attribute: alw_dup_nxx**

**Fullname:** Allow duplicate (non-unique) NXXs on the AP link.

**Attribute Description** This field indicates if the client process on the *5ESS*®-2000 switch can accept 7-digit DNs with non-unique NXXs transmitted over the AP link.
When this field is DBNO, the client process will accept 7-digit DNs that will map to the base NPA for that NXX. The attribute is set to DBYES if DNs with non-unique NXXs will be transmitted over the AP link. In this case, 7-digit DNs are no longer allowed since the client process is unable to determine the correct NXX.
From a Facility Management perspective, when the field is set to DBNO, 7-digit DNs are recognized for the ACSR feature and 8-character list names (of the format T + 7 digits or up to any 8 characters) for the TOD feature. When the field is set to DBYES, 10-digit DNs are recognized for the ACSR feature and 11-character list names (of the format T + 10 digits or up to any 11 characters) for the TOD feature.

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# CMP_CRD

## 1. Description

This relation contains the information about the differentiation of card service charges.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |

## 3. Field Layout

```
CMP_CRD     relid = 1857  DBSTATIC   DBACC_LIN   DBPRAM    FG      NULL
     comp_crd    DMDN7        (struct)     <--- key
 (a)     dig7cnt     DMDIG7CNT    (uchar: 3)
         dn7         DMDIG7       (array [ 7 ] of char )
     crd_label   DMCHAR5      (array [ 5 ] of char )
 (b) crd_flag    DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout    CMP_CRD
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+==========  comp_crd ==========+===============|
    |     |         |                                                |
  0 |  a  |*********|                      dn7                       |
    | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
    |                                                                |
  4 |                               dn7                              |
    |===============+===============+===============+===============|
    |                                                                |
  8 |                            crd_label                           |
    | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
    |               | |                                              |
 12 |   crd_label   |b|**********************************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLcmp_crd

**Relation Description** Differentiation of card service charges. This relation contains the service provider administration (TCA) defined calling card comparison card for the differentiation of card service charges feature and a label which defines the issuer of the card. This comparison card can be used as a marketing technique to compare calling card prices between the calling customer's card and a TCA defined comparison card.

**Attribute: comp_crd**

**Fullname:** Comparison card number

**Attribute Description** This is the comparison card vendor/issuer ID number and will be used in rate quote queries. This field contains a two to seven digit calling card number.

**Attribute: comp_crd.dig7cnt**

**Fullname:** Comparison card digit count

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**Attribute Description** The count of the comparison card vendor/issuer ID number.

**Attribute: comp_crd.dn7**

**Fullname:** Comparison card vendor/issuer ID number

**Attribute Description** This is the comparison card vendor/issuer ID number and will be used in rate quote queries. This field contains a two to seven digit calling card number.

**Attribute: crd_flag**

**Fullname:** 10+4 card indicator

**Attribute Description** This field will be used to set the 10+4 comparison card indicator field of the rate query. DBYES indicates that this card is a 10+4 card.

**Attribute: crd_label**

**Fullname:** Card character label

**Attribute Description** The card label attribute provides a meaningful label for the comparison card. This label will display the name of the card issuer on page two of the operator services position system (OSPS) video display terminal (VDT)/combined services terminal (CST) when a comparison card is used during processing of OSPS calling card rate quote queries. The crd_label field is a one to five character field.

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# CMTPATH

## 1. Description

This relation identifies the CCS message paths that exist between switching modules in the office.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 3072 |
| expected number of tuples | 24 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| relation type | DBSTATIC |
| distribution | LRFR |
| trigger function | PScmtpath |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
CMTPATH     relid = 3118  DBSTATIC   DBACC_DHSH  DBPRAM    LRFR    NULL


     appl_cnt    DMUSHORT     (ushort)
     pathtype    DMCMTPATH    (enum)
     gsm         DMMODULE     (ushort: 8)       <--- key
     ngsm        DMMODULE     (ushort: 8)       <--- key
     mh_sm       DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout    CMTPATH
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |             appl_cnt          |    pathtype   |      gsm      |
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  4 |      ngsm     |     mh_sm     |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLcmtpath

### Relation Description

```
        CCS Message Transport Path

        This relation identifies the CCS (Common Channel
        Signaling) message paths that exist between
        switching modules (SM) in the office. The types
        of CCS message paths between SM's are:

        1. CCS Message Transport via a Direct Message Handler
           A Direct Message Handler is a Message Handler (MH)
           that physically resides on the SM-2000 and is used
           transport messages to/from QPH's on a Global SM
```

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to the non-global SM-2000 SMP.

2. CCS Message Transport via a Transfer Message Handler
   A Transfer MH is an MH that physically resides on an SM-2000 and is used by an SM's to relay CCS messages from/to QPH's on a Global SM.

3. Intra-MD Message Delivery Link - A logical path within a GSM that is used by the Switching Module Processor (SMP) on a GSM to communicate with the PSU on the GSM.

This relation is being implemented as part of the 5e14(1) SS7 PSU Architectural Enhancements Feature. This feature will allow a PSU on a host global SM-2000 to support SS7 signaling to/from any SM in the office.

**Attribute:**
gsm
**Fullname:**
global switching module
**Attribute Description:**
The number that specifies a global SM which supports national SS7 signaling.

**Attribute:**
ngsm
**Fullname:**
non-global switching module
**Attribute Description:**
The number which specifies a non-global switching module (NGSM). An NGSM is an SM that is equipped with CCS trunks or TCAP applications that generate CCS messages that need to be transported to the PSU on the GSM so that the CCS messages can be sent or received over CCS signaling links.

**Attribute:**
appl_cnt
**Fullname:**
application count
**Attribute Description:**
This count equals the total number of TCAP applications plus the total number of trunk group members that use the CMT path. If this count is greater than zero, the RLcmtpath tuple cannot be deleted.

**Attribute:**
mh_sm
**Fullname:**

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message handler switching module

**Attribute Description:**

A switching module number. The message handler on the SM specified by mh_sm will be used by CCS Message Transport for communication between the non-global SM (ngsm) and global SM (gsm).

**Attribute:**

pathtype

**Fullname:**

type of CCS path

**Attribute Description:**

Pathtype identifies whether the path being defined between two SM's is a Direct MH path, a Transfer MH path, or an Intra-MD link path.

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# CNB_CAS

## 1. Description

This relation indicates whether a contract exists for a LEC call to be charged to an AT&T card. This check is based on NPA-NXX of the calling number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 512 |
| data page size | 512 |
| page level | 2 |
| ks key store | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
CNB_CAS     relid = 1187  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     npa          DMUNS10      (ushort: 10) <--- key, not stored
     oamap00      DMOAH32      (ulong)
     oamap01      DMOAH32      (ulong)
     oamap02      DMOAH32      (ulong)
     oamap03      DMOAH32      (ulong)
     oamap04      DMOAH32      (ulong)
     oamap05      DMOAH32      (ulong)
     oamap06      DMOAH32      (ulong)
     oamap07      DMOAH32      (ulong)
     oamap08      DMOAH32      (ulong)
     oamap09      DMOAH32      (ulong)
     oamap10      DMOAH32      (ulong)
     oamap11      DMOAH32      (ulong)
     oamap12      DMOAH32      (ulong)
     oamap13      DMOAH32      (ulong)
     oamap14      DMOAH32      (ulong)
     oamap15      DMOAH32      (ulong)
     oamap16      DMOAH32      (ulong)
     oamap17      DMOAH32      (ulong)
     oamap18      DMOAH32      (ulong)
     oamap19      DMOAH32      (ulong)
     oamap20      DMOAH32      (ulong)
     oamap21      DMOAH32      (ulong)
     oamap22      DMOAH32      (ulong)
     oamap23      DMOAH32      (ulong)
     oamap24      DMOAH32      (ulong)
         User and Compacted Tuple Layout    CNB_CAS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  0 |         npa       |*******************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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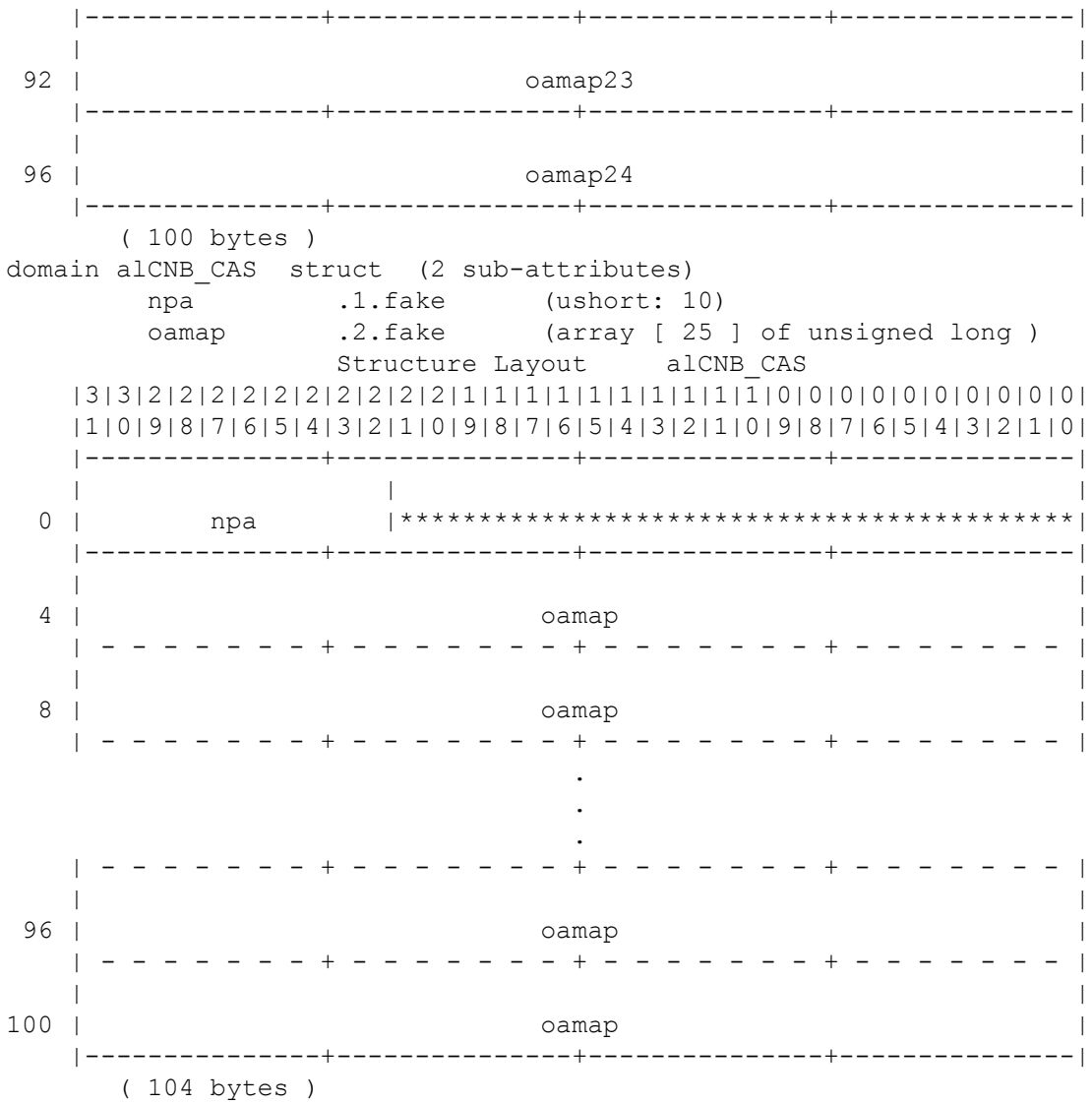
```
  4 |                           oamap00                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                           oamap01                             |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                                                               |
 96 |                           oamap23                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
100 |                           oamap24                             |
    |---------------+---------------+---------------+---------------|
      ( 104 bytes )
     oamap00     DMOAH32      (ulong)
     oamap01     DMOAH32      (ulong)
     oamap02     DMOAH32      (ulong)
     oamap03     DMOAH32      (ulong)
     oamap04     DMOAH32      (ulong)
     oamap05     DMOAH32      (ulong)
     oamap06     DMOAH32      (ulong)
     oamap07     DMOAH32      (ulong)
     oamap08     DMOAH32      (ulong)
     oamap09     DMOAH32      (ulong)
     oamap10     DMOAH32      (ulong)
     oamap11     DMOAH32      (ulong)
     oamap12     DMOAH32      (ulong)
     oamap13     DMOAH32      (ulong)
     oamap14     DMOAH32      (ulong)
     oamap15     DMOAH32      (ulong)
     oamap16     DMOAH32      (ulong)
     oamap17     DMOAH32      (ulong)
     oamap18     DMOAH32      (ulong)
     oamap19     DMOAH32      (ulong)
     oamap20     DMOAH32      (ulong)
     oamap21     DMOAH32      (ulong)
     oamap22     DMOAH32      (ulong)
     oamap23     DMOAH32      (ulong)
     oamap24     DMOAH32      (ulong)
           Stored Tuple Layout      CNB_CAS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                           oamap00                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           oamap01                             |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
```




## 4. Population rules for RLcnb_cas

### Relation Description

```
Customer Account Services Contract NPA Body Table
CAS contract body table - This relation indicates whether
a contract exists for a LEC call to be charged to a card
that uses CAS signaling. This based on NPA-NXX of the
calling number.
/*
 * This  relation is for domestic generics only
 */
```

**Attribute:**

npa

**Fullname:**

Numbering Plan Area

**Attribute Description:**

This is an NPA for which only some NXXs have contract as

indicated in the head table RLcnh_cas.

**Attribute:**
oamap00
**Fullname:**
OA map word 00
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap01
**Fullname:**
OA map word 01
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap02
**Fullname:**
OA map word 02
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap03
**Fullname:**
OA map word 03
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap04
**Fullname:**
OA map word 04
**Attribute Description:**
Each OA map word 04 gives allow state for 32 NXXs

**Attribute:**
oamap05
**Fullname:**
OA map word 05
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap06
**Fullname:**
OA map word 06
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap07

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**Fullname:**
OA map word 07
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap08
**Fullname:**
OA map word 08
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap09
**Fullname:**
OA map word 09
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap10
**Fullname:**
OA map word 10
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap11
**Fullname:**
OA map word 11
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap12
**Fullname:**
OA map word 12
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap13
**Fullname:**
OA map word 13
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap14
**Fullname:**
OA map word 14
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

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**Attribute:**
oamap15
**Fullname:**
OA map word 15
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap16
**Fullname:**
OA map word 16
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap17
**Fullname:**
OA map word 17
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap18
**Fullname:**
OA map word 18
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap19
**Fullname:**
OA map word 19
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap20
**Fullname:**
OA map word 20
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap21
**Fullname:**
OA map word 21
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap22
**Fullname:**

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OA map word 22

**Attribute Description:**

Each OA map word xx gives allow state for 32 NXXs

**Attribute:**

oamap23

**Fullname:**

OA map word 23

**Attribute Description:**

Each OA map word xx gives allow state for 32 NXXs

**Attribute:**

oamap24

**Fullname:**

OA map word 24

**Attribute Description:**

Each OA map word xx gives allow state for 32 NXXs

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# CNF6_CKT

## 1. Description

Six (6) ports conference circuit names.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 672 |
| expected tuples in relation | 5 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 8 |

## 3. Field Layout

```
CNF6_CKT    relid = 564   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     circuit     DMCIRCUIT    (ushort)     <--- key
     unitnum     DMUNITNO     (ushort: 7)
         User, Compacted and Stored Tuple Layout   CNF6_CKT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |             |                 |
  0 |            circuit            |   unitnum   |*****************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLcnf6_ckt

**Relation Description** 6 ports conference circuit names
See RLcnf6_ckt.circuit usage.

**Attribute: circuit**

**Fullname:** circuit name

**Attribute Description** For GDSU: Each TN1032 6-port conference circuit board generates 2 tuples for this relation. It also generates 12 CKTDATA tuples. Exactly one of the CKTDATA tuples must have CKTDATA.cktbrd = DBYES; this is the CKTDATA tuple corresponding to port 0 on the TN1032 board. The LEAD CIRCUIT NAME is the value of the CKTDATA.name attribute for that tuple. The 2 CNF6_CKT tuples for that board will then have the corresponding circuit indexes for attribute 'circuit' as:

```
ckt_indx = LEAD CIRCUIT NAME's ckt_indx
ckt_indx = LEAD CIRCUIT NAME's ckt_indx  + 6
```

For GDSF:
One (1) tuple for each 6-port conference leading circuit.

**Attribute: unitnum**

**Fullname:** unit number

**Attribute Description** Digit service unit number of the GDSU/GDSF containing the circuit.

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# CNF10CKT

## 1. Description

Ten (10) ports conference circuit names.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 384 |
| expected tuples in relation | 5 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
CNF10CKT    relid = 2158  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     circuit     DMCIRCUIT    (ushort)     <--- key
     unitnum     DMUNITNO     (ushort: 7)
         User, Compacted and Stored Tuple Layout   CNF10CKT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |                |
  0 |            circuit            |   unitnum     |****************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLcnf10ckt

**Relation Description** Ten-way Conference Circuit
Each 10-port conference leading circuit generates a tuple for this relation.

**Attribute: circuit**

**Fullname:** Circuit Name

**Attribute Description** 1 tuple for each 10-port conference leading circuit.

**Attribute: unitnum**

**Fullname:** Unit Number

**Attribute Description** This is the digital services unit number of GDSF containing the circuit.

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# CNH_CAS

## 1. Description

This relation indicates whether a contract exists for a LEC call to be charged to an AT&T card. This is based on NPA or NPA-NXX of the calling number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
CNH_CAS     relid = 1177  DBSTATIC   DBACC_LIN   DBPRAM    FG      NULL
     casdummy    DMUCHAR      (uchar)     <--- key
     oaff1       DMUNS8       (ushort: 8)
     oaff2       DMUSHORT     (ushort)
     oamap00     DMOAH32      (ulong)
     oamap01     DMOAH32      (ulong)
     oamap02     DMOAH32      (ulong)
     oamap03     DMOAH32      (ulong)
     oamap04     DMOAH32      (ulong)
     oamap05     DMOAH32      (ulong)
     oamap06     DMOAH32      (ulong)
     oamap07     DMOAH32      (ulong)
     oamap08     DMOAH32      (ulong)
     oamap09     DMOAH32      (ulong)
     oamap10     DMOAH32      (ulong)
     oamap11     DMOAH32      (ulong)
     oamap12     DMOAH32      (ulong)
     oamap13     DMOAH32      (ulong)
     oamap14     DMOAH32      (ulong)
     oamap15     DMOAH32      (ulong)
     oamap16     DMOAH32      (ulong)
     oamap17     DMOAH32      (ulong)
     oamap18     DMOAH32      (ulong)
     oamap19     DMOAH32      (ulong)
     oamap20     DMOAH32      (ulong)
     oamap21     DMOAH32      (ulong)
     oamap22     DMOAH32      (ulong)
     oamap23     DMOAH32      (ulong)
     oamap24     DMOAH32      (ulong)
     oamap25     DMOAH32      (ulong)
     oamap26     DMOAH32      (ulong)
     oamap27     DMOAH32      (ulong)
     oamap28     DMOAH32      (ulong)
     oamap29     DMOAH32      (ulong)
     oamap30     DMOAH32      (ulong)
     oamap31     DMOAH32      (ulong)
     oamap32     DMOAH32      (ulong)
```

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```
    oamap33     DMOAH32      (ulong)
    oamap34     DMOAH32      (ulong)
    oamap35     DMOAH32      (ulong)
    oamap36     DMOAH32      (ulong)
    oamap37     DMOAH32      (ulong)
    oamap38     DMOAH32      (ulong)
    oamap39     DMOAH32      (ulong)
    oamap40     DMOAH32      (ulong)
    oamap41     DMOAH32      (ulong)
    oamap42     DMOAH32      (ulong)
    oamap43     DMOAH32      (ulong)
    oamap44     DMOAH32      (ulong)
    oamap45     DMOAH32      (ulong)
    oamap46     DMOAH32      (ulong)
    oamap47     DMOAH32      (ulong)
    oamap48     DMOAH32      (ulong)
    oamap49     DMOAH32      (ulong)
        User, Compacted and Stored Tuple Layout    CNH_CAS
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |               |                               |
 0 |    casdummy  |     oaff1     |             oaff2             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
 4 |                           oamap00                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
 8 |                           oamap01                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
12 |                           oamap02                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
16 |                           oamap03                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |                           oamap04                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
24 |                           oamap05                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
28 |                           oamap06                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
32 |                           oamap07                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
36 |                           oamap08                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
40 |                           oamap09                             |
   |---------------+---------------+---------------+---------------|
```

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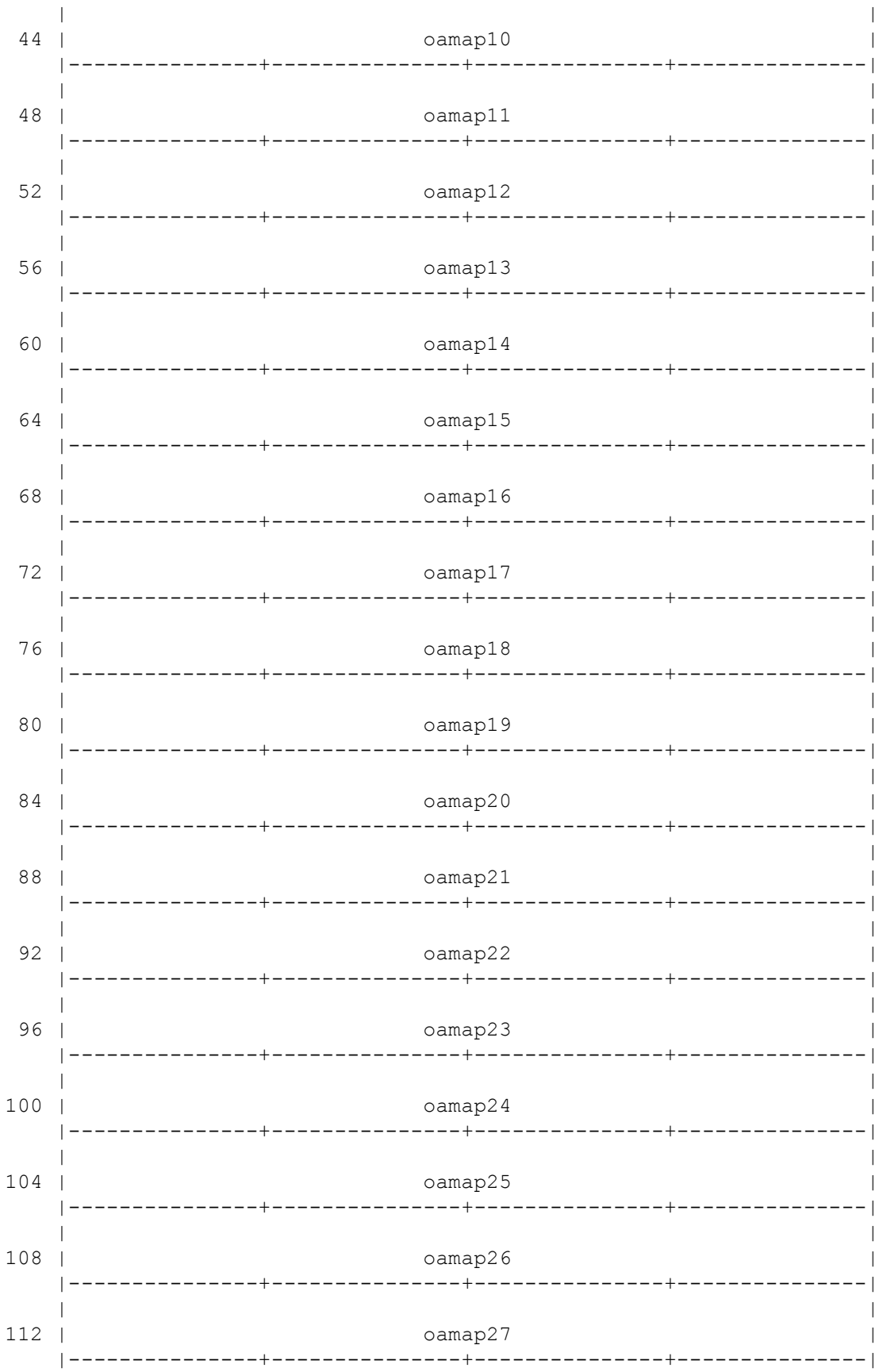


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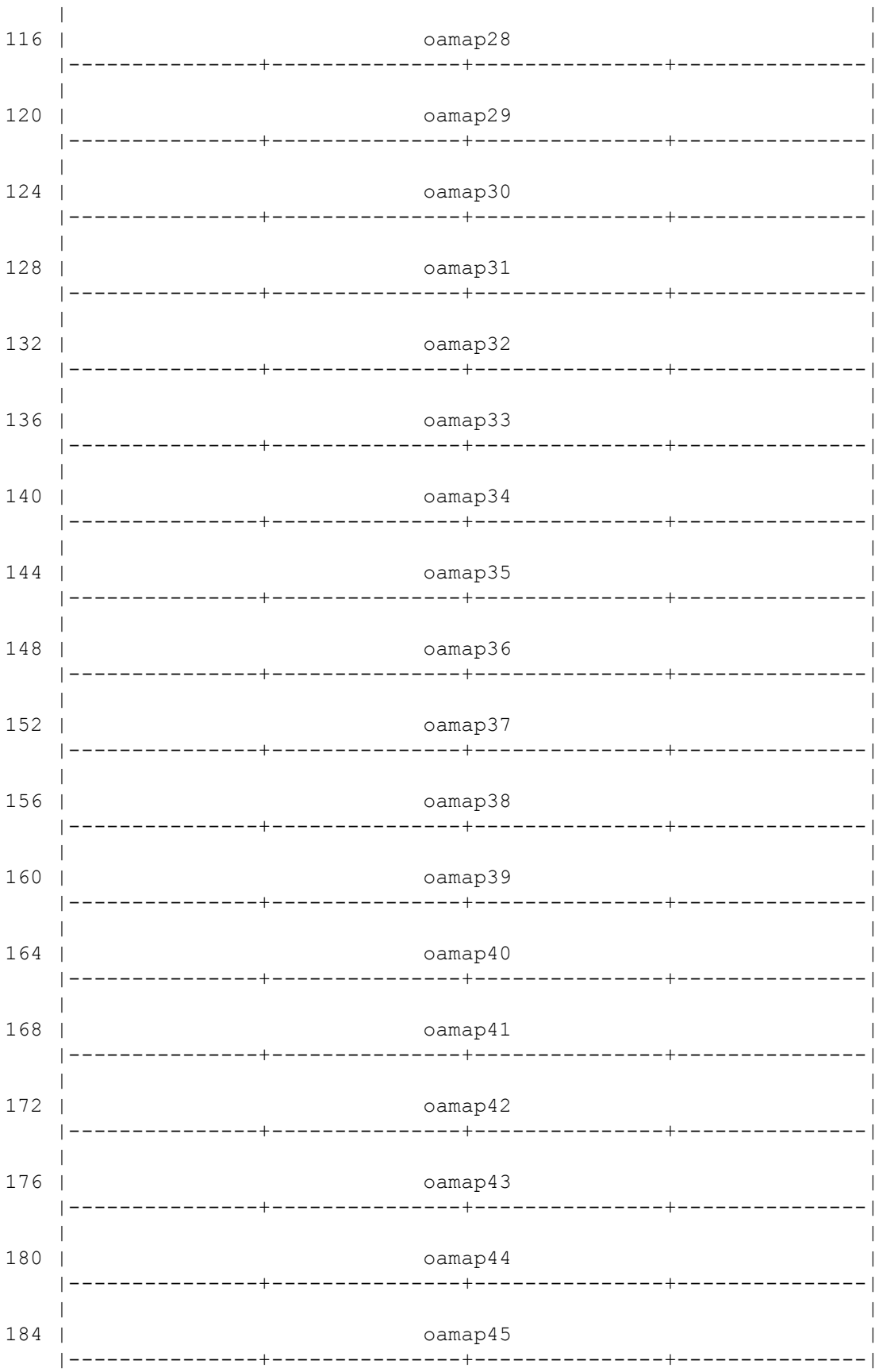


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```
    |                                                                |
188 |                          oamap46                               |
    |--------------+--------------+--------------+--------------|
    |                                                                |
192 |                          oamap47                               |
    |--------------+--------------+--------------+--------------|
    |                                                                |
196 |                          oamap48                               |
    |--------------+--------------+--------------+--------------|
    |                                                                |
200 |                          oamap49                               |
    |--------------+--------------+--------------+--------------|
       ( 204 bytes )
RLcnh_cas.G
domain alCNH_CA   struct  (4 sub-attributes)
         casdummy    unsigned char (uchar)
         oaff1       .1.fake      (ushort)
         oaff2       unsigned short (ushort)
         oamap       .2.fake      (array [ 50 ] of unsigned long)
         Structure Layout      alCNH_CA
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |              |              |                               |
  0 |    casdummy   |     oaff1     |             oaff2             |
    |--------------+--------------+--------------+--------------|
    |                                                                |
  4 |                          oamap                                 |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                |
  8 |                          oamap                                 |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                |
 12 |                          oamap                                 |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                |
 16 |                          oamap                                 |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                |
 20 |                          oamap                                 |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                |
 24 |                          oamap                                 |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                |
 28 |                          oamap                                 |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                |
 32 |                          oamap                                 |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                |
 36 |                          oamap                                 |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                |
```

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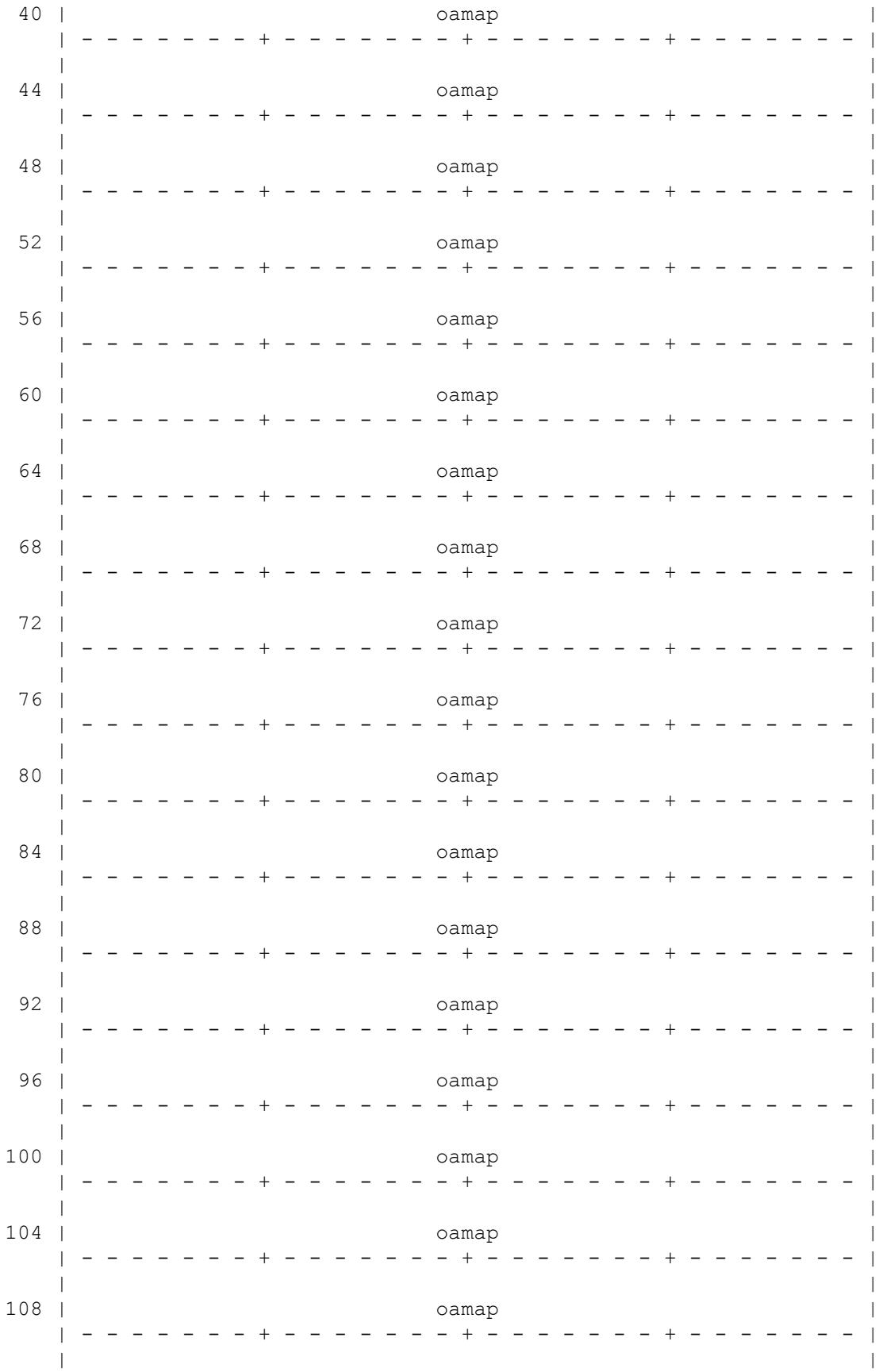


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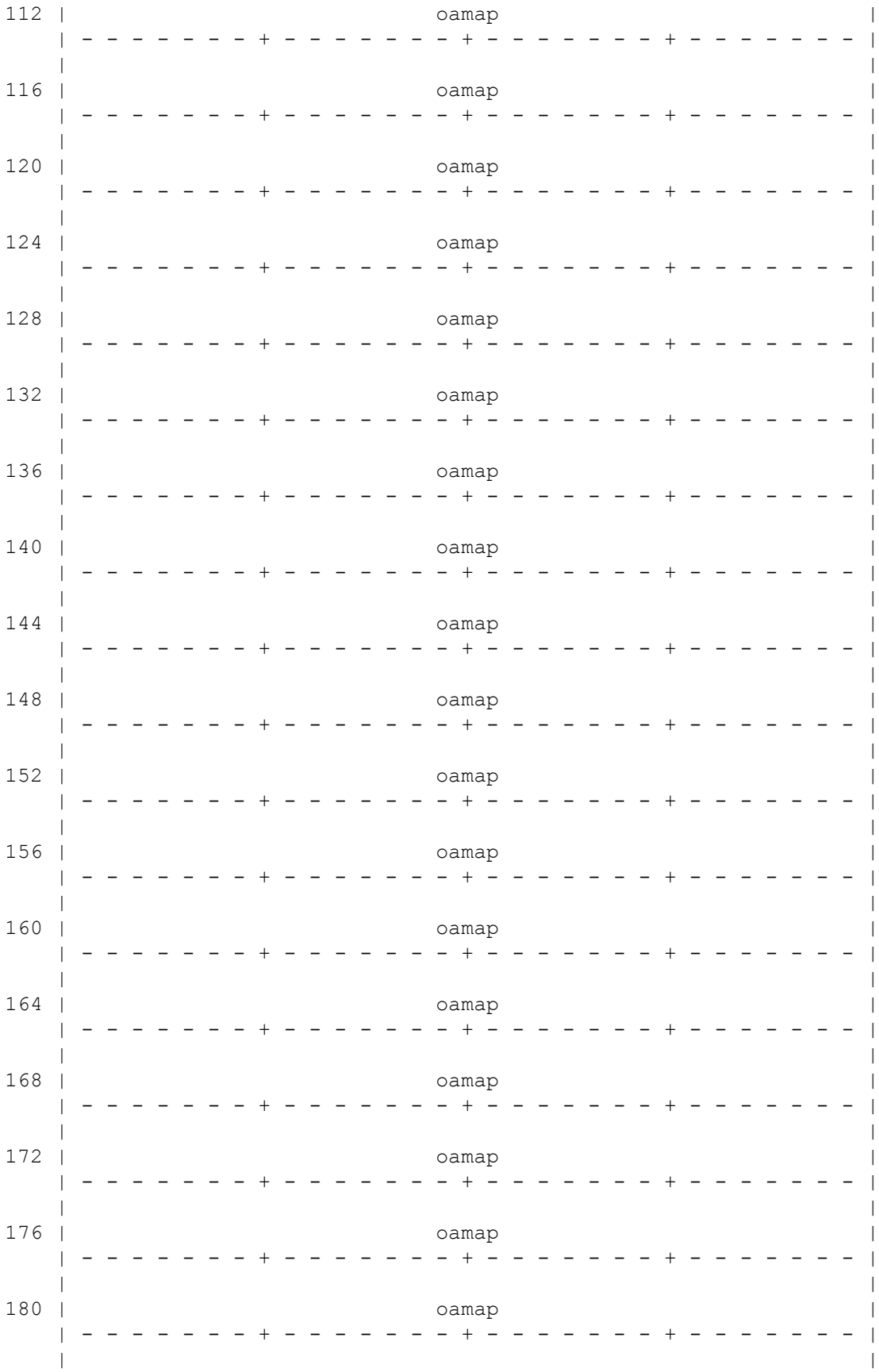


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```
184 |                              oamap                              |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                 |
188 |                              oamap                              |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                 |
192 |                              oamap                              |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                 |
196 |                              oamap                              |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                 |
200 |                              oamap                              |
    |---------------+---------------+---------------+---------------|
       ( 204 bytes )
```

## 4. Population Rules for RLcnh_cas

**Relation Description** Customer account services contract NPA head table. CAS contract head table - This relation indicates whether a contract exists for a LEC call to be charged to an AT&T card. This is based on NPA or NPA-NXX of the calling number.

This relation is populated for domestic generics only.

**Attribute: casdummy**

**Fullname:** CAS dummy key

**Attribute Description** This is a dummy key set to 1.

**Attribute: oaff1**

**Fullname:** Spare field 1

**Attribute Description** Spare field for fast features.

**Attribute: oaff2**

**Fullname:** Spare field 2

**Attribute Description** Spare field for fast features.

**Attribute: oamap[*]**

**Fullname:** OA map word xx where xx can be 00 through 49

**Attribute Description** Each OA map word xx gives contract state for 16 NPAs The allowed values are:

```
OACASALW  = 00
OACASDENY = 01
OACASPALW = 10
```

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# CNINF_R

## 1. Description

Root storage relation for RC_CNINFO.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 49600 |
| expected tuples in relation | 204 |
| density | 14 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTORAGE |

## 3. Field Layout

```
CNINF_R     relid = 1680  DBSTORAGE  DBACC_HASH  DBPRAM    LP      RCDATA
     remarks     DMGK16       (ulong: 16)
     lccrax      DMGK14       (ulong: 14)
     module      DMMODULE     (ushort: 8)     <--- key
     ph_number   DMPHNBR      (uchar: 7)     <--- key
     ph_cn       DMPHCN       (uchar: 7)     <--- key
     party       DMPARTY      (ushort: 4)     <--- key
         User, Compacted and Stored Tuple Layout    CNINF_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                           |   |
  0 |            remarks            |           lccrax          |***|
    |---------------+---------------+---------------+---------------|
    |               |             | |             |       |         |
  4 |     module    |  ph_number  |*|    ph_cn    | party |*********|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLcninf_r

There are no population rules for this relation.

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# CNTYLANG

## 1. Description

This relation contains the table mapping country codes to initial language.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
CNTYLANG    relid = 2606  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     add_digits  DMCHAR4      (array [ 4 ] of char )     <--- key
     hdr_id      DMANNC_ID    (ulong: 17)
     cc          DMTCSCC      (ushort: 10)     <--- key
 (a) cust_entr   DMBOOL       (enum: 1)
     spare1      DMUSHORT     (ushort)
     lang_code   DMUNS10      (ushort: 10)
     spare2      DMUNS6       (ushort: 6)
         User, Compacted and Stored Tuple Layout   CNTYLANG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                           add_digits                          |
    |---------------+---------------+---------------+---------------|
    |                                 |                   | |       |
  4 |              hdr_id             |         cc        |a|*******|
    |---------------+---------------+---------------+---------------|
    |                                 |                   |           |
  8 |             spare1              |     lang_code     |   spare2  |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLcntylang

**Relation Description** Country code to initial language table
Relation is used to map a country code to a language code value.

This relation should be populated for domestic generics only.

Engineering Information:
```
Maximum # tuples: 10000
Average # Tuples: 500
```

**Attribute: cc**

**Fullname:** country code

**Attribute Description** This is the country code portion of the forward number converted to binary.

**Attribute: add_digits**

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**Fullname:** additional digits

**Attribute Description** Additional digits is an additional refinement of the country code for screening purposes.

**Attribute: lang_code**

**Fullname:** language code

**Attribute Description** This is the language identifier code.

**Attribute: cust_entr**

**Fullname:** customer entry allowed

**Attribute Description** This field specifies whether the caller is allowed to change the language on the call.

**Attribute: hdr_id**

**Fullname:** header id

**Attribute Description** This field is the header id.

**Attribute: spare1**

**Fullname:** Spare Field

**Attribute Description** Spare field for fast features.

**Attribute: spare2**

**Fullname:** Spare Field

**Attribute Description** Spare field for fast features.

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# CO_TMRS

## 1. Description

This relation defines the values of SCCP Connection Oriented timers.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 1 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution type | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBNO |
| update trigger | DBYES |
| delete trigger | DBNO |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
CO_TMRS     relid = 2533  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     guard_timer  DMUNS10      (ushort: 10)
     c_est_timer  DMUNS6       (ushort: 6)
     iar_timer    DMUNS9       (ushort: 9)
     ias_timer    DMUNS7       (ushort: 7)
     freeze_timer  DMUNS8       (ushort: 8)
     int_timer    DMUNS6       (ushort: 6)
 (a) dummy_key    DMUNS1       (ushort: 1)     <--- key
     rel_timer    DMUNS5       (ushort: 5)
 (b) rep_r_timer  DMUNS4       (ushort: 4)
         User, Compacted and Stored Tuple Layout    CO_TMRS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |           |                   |             |
  0 |    guard_timer    |c_est_timer|    iar_timer      |  ias_timer  |
    |---------------+---------------+---------------+---------------|
    |                |           | | |         |       |             |
  4 |  freeze_timer | int_timer |a|*|rel_timer|   b   |*************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLco_tmrs

**Relation Description** SCCP Connection Oriented Timers Relation
This relation defines the values of SCCP Connection Oriented Timers.

**Attribute: dummy_key**

**Fullname:** Dummy Key

**Attribute Description** It should always be 0.

**Attribute: c_est_timer**

**Fullname:** Wait For Connection Confirm Timer

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**Attribute Description** This attribute defines the timer value for T(conn est) in seconds.

**Attribute: rel_timer**

**Fullname:** Wait For Release Complete Message Timer

**Attribute Description** This attribute defines the timer value for T(rel) in seconds.

**Attribute: int_timer**

**Fullname:** Wait For Reporting Abnormal Release Timer

**Attribute Description** This attribute defines the timer value for T(int) in seconds.

**Attribute: rep_r_timer**

**Fullname:** Wait For Release Complete Message After rel_timer Expires

**Attribute Description** This attribute defines the timer value for waiting for release complete message after rel_timer expires. It is defined in seconds.

**Attribute: ias_timer**

**Fullname:** Delay To Send Message On A Connection Section

**Attribute Description** This attribute defines the timer value for T(ias) in seconds.

**Attribute: iar_timer**

**Fullname:** Waiting For Receive Message On A Connection Section

**Attribute Description** This attribute defines the timer value for T(iar) in seconds.

**Attribute: guard_timer**

**Fullname:** Waiting to Resume Temporary Connection During Restart

**Attribute Description** This attribute defines the timer value for T(guard) in seconds.

**Attribute: freeze_timer**

**Fullname:** Duration of Local Reference Number Freeze Timer

**Attribute Description** This attribute defines the timer value for freezing local reference number. It is defined in seconds.

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# COCSCRN

## 1. Description

Class of Charge Screening table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 40000 |
| expected tuples in relation | 1000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
COCSCRN     relid = 2195  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     subsrvid    DMUSHORT     (ushort)     <--- key
     billgrp     DMUSHORT     (ushort)     <--- key
     tgroup      DMGRUPNM     (ushort: 13)     <--- key
 (a) service     DMSERVTYP    (enum: 2)     <--- key
 (b) oaff2       DMBOOL       (enum: 1)
     oaff6       DMUNS8       (ushort: 8)
 (c) treatment   DMTRMTID     (enum: 4)
     oaff1       DMUNS4       (ushort: 4)
 (d) oaff3       DMBOOL       (enum: 1)
 (e) oaff4       DMBOOL       (enum: 1)
 (f) oaff5       DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout    COCSCRN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             subsrvid          |             billgrp           |
    |---------------+---------------+---------------+---------------|
    |                           |   | |               |       |       |
  4 |          tgroup           | a |b|     oaff6     |   c   | oaff1 |
    |---------------+---------------+---------------+---------------|
    | | | |                                                         |
  8 |d|e|f|*********************************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLcocscrn

**Relation Description** RLcocscrn
RLcocscrn is a spare relation for OSPS Special Features.

**Attribute: service**

**Fullname:** Service type.

**Attribute Description** Type of service this call is using: non-DIOR, DIOR non-CPS, or DIOR CPS.

**Attribute: subsrvid**

**Fullname:** Sub-service ID.

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**Attribute Description** Sub-service ID for DIOR CPS calls.

**Attribute: tgroup**

**Fullname:** Trunk group number.

**Attribute Description** Number identifying a specific trunk group or all trunk groups.

**Attribute: billgrp**

**Fullname:** Billing group number.

**Attribute Description** Number identifying a specific billing group or all billing groups.

**Attribute: treatment**

**Fullname:** Treatment.

**Attribute Description** Treatment to be given.

**Attribute: oaff1**

**Fullname:** uns4 spare.

**Attribute Description** Unused.

**Attribute: oaff2**

**Fullname:** boolean spare.

**Attribute Description** Unused.

**Attribute: oaff3**

**Fullname:** boolean spare.

**Attribute Description** Unused.

**Attribute: oaff4**

**Fullname:** boolean spare.

**Attribute Description** Unused.

**Attribute: oaff5**

**Fullname:** boolean spare.

**Attribute Description** Unused.

**Attribute: oaff6**

**Fullname:** ushort spare.

**Attribute Description** Unused.

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# COI_GPID

## 1. Description

Community of interest groups.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4096 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
COI_GPID    relid = 789   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     di          DMDESTIDX    (ushort: 12)     <--- key
 (a) coi1        DMBOOL       (enum: 1)
 (b) coi2        DMBOOL       (enum: 1)
 (c) coi3        DMBOOL       (enum: 1)
 (d) coi4        DMBOOL       (enum: 1)
 (e) coi5        DMBOOL       (enum: 1)
 (f) coi6        DMBOOL       (enum: 1)
 (g) coi7        DMBOOL       (enum: 1)
 (h) coi8        DMBOOL       (enum: 1)
 (i) coi9        DMBOOL       (enum: 1)
 (j) coi10       DMBOOL       (enum: 1)
 (k) coi11       DMBOOL       (enum: 1)
 (l) coi12       DMBOOL       (enum: 1)
 (m) coi13       DMBOOL       (enum: 1)
 (n) coi14       DMBOOL       (enum: 1)
 (o) coi15       DMBOOL       (enum: 1)
 (p) coi16       DMBOOL       (enum: 1)
 (q) coi17       DMBOOL       (enum: 1)
 (r) coi18       DMBOOL       (enum: 1)
 (s) coi19       DMBOOL       (enum: 1)
 (t) coi20       DMBOOL       (enum: 1)
 (u) dummy       DMUNS1       (ushort: 1)
        User, Compacted and Stored Tuple Layout   COI_GPID
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                       | | | | | | | | | | | | | | | | | | | | |
 0 |           di          |a|b|c|d|e|f|g|h|i|j|k|l|m|n|o|p|q|r|s|t|
   |---------------+---------------+---------------+---------------|
   | |                                                             |
 4 |u|*************************************************************|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population Rules for RLcoi_gpid

**Relation Description** Community of interest group ID.

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**Attribute: di**

**Fullname:** Destination Index.
**Attribute Description** Destination index value.

**Attribute: coi1**

**Fullname:** Community of Interest.
**Attribute Description** A sequence of booleans, one per COI group ID. If DBYES, this destination index is in the COI. If DBNO, it is not. The maximum number of destination indexes for any one COI is 150.

**Attribute: coi[*]**

**Fullname:** Community of Interest.
**Attribute Description** A sequence of booleans, one per COI group ID. If DBYES, this destination index is in the COI. If DBNO, it is not. The maximum number of destination indices for any one COI is 150.

**Attribute: dummy**

**Fullname:** Dummy
**Attribute Description** Placeholder value to ensure that a tuple which has all bits to '1' cannot occur.

Note: This is not a spare attribute! It cannot be re-used.

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# COI_USE

## 1. Description

Community of interest usage count.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 21 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
COI_USE     relid = 790   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     coi_gpid    DMCOI_GPID   (ushort: 5)     <--- key, not stored
     usecount    DMUNS16      (ushort)
         User and Compacted Tuple Layout    COI_USE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |         |                                                     |
  0 | coi_gpid|*****************************************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            usecount           |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     usecount    DMUNS16      (ushort)
           Stored Tuple Layout      COI_USE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            usecount           |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLcoi_use

**Relation Description** Community Of Interest usage count.

**Attribute: coi_gpid**

**Fullname:** Community of interest group id

**Attribute Description** All 21 tuples must exist if any port is assigned a PP feature. If no PP feature is assigned, this relation should be empty.

**Attribute: usecount**

**Fullname:** Community of interest Usage count

**Attribute Description** This value should be incremented once for each tuple of RLpp_ltm which has a RLpp_ltm.coi_gpid = to coi_gpid.

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# COLLFAC

## 1. Description

This relation contains the Collection Facility for Packet Data Channel (PDC) and Call Data Channel (CDC).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 500 |
| expected tuples in relation | 20 |
| access type | DBACC_DHSH |
| distribution | LRFR |
| relation type | DBSTATIC |
| memory type | DBPRAM |
| trigger | RTcollfac |
| update trigger | DBNO |
| insert trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ks key store | DBYES |

## 3. Field Layout

```
COLLFAC     relid = 3176  DBSTATIC   DBACC_DHSH  DBPRAM    LRFR    NULL


     ipaddr      DMULONG      (ulong)   <--- key
     inetport    DMUSHORT     (ushort)  <--- key
     count       DMCASEMAX    (ushort: 9)
 (a) colltype    DMCOLLTYPE   (enum: 2)
         User, Compacted and Stored Tuple Layout    COLLFAC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                              ipaddr                           |
    |---------------+---------------+---------------+---------------|
    |                               |                 |   |         |
  4 |            inetport           |      count      | a |*********|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLcollfac

**Relation Description**

```
        Collection facility

        This new relation will be used to provision the IP address for
        the Call Data Channel (CDC) and/or Packet Data Channel (PDC)
        associated with the Lawfully Authorized Electronic
        Surveillance (LAES) case.
```

**Attribute:**

```
        ipaddr
```

**Fullname:**

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Internet Protocol Address

**Attribute Description:**

IP address of host

**Attribute:**

inetport

**Fullname:**

Internet Port

**Attribute Description:**

internet port

**Attribute:**

count

**Fullname:**

Count

**Attribute Description:**

Count of number of surveillance tuples in RLlaescase. When any 1 combination of IP addresses is populated it will only be counted once.

**Attribute:**

colltype

**Fullname:**

Collection Type

**Attribute Description:**

collection type - either CDC or PDC

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# CONT_TONE

## 1. Description

Continuous TTF tone generation specification and network time slot allocation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
CONT_TONE   relid = 464   DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     tone_type   DMTONE       (enum)     <--- key
     freq        DMHEX16      (ushort)
     phase       DMHEX16      (ushort)
     level       DMHEX16      (ushort)
         User, Compacted and Stored Tuple Layout  CONT_TONE
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |           tone_type             |               freq            |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  4 |             phase               |             level             |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLcont_tone

**Relation Description** Continuous TTF tone generation specification and network time slot allocation

**Attribute: tone_type**

**Fullname:** name of continuous tone

**Attribute Description** This attribute can be populated with any of the following DMTONE enumerated types:

```
TMMWATT - normally for domestic 1004 Hz milliwatt
TMMW_E  - normally for export 804 Hz milliwatt
TMTPT   - normally for domestic 2225 Hz test progress tone
```

No other DMTONE enumerated types will be allowed. There can be only one tuple for each of the previous types.

**Attribute: freq** **Fullname:** frequency of the desired tone

**Attribute Description** A 16 bit hexadecimal number which must correspond to the binary value of the input frequency left shifted 3 bits. Acceptable input frequencies are any integer frequency in a range from 0 to 4000 Hz. A warning message should be produced if the input frequency is not one of those listed here.

```
Normal Frequencies (that is - NO warning message)
```

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```
------------------------------------------------
                      804 Hz
                      900 Hz
                      1004 Hz
                      1020 Hz
                      2225 Hz
```

**Attribute: phase**

**Fullname:** phase of the desired tone

**Attribute Description** A 16 bit hexadecimal number which must correspond to the binary value of the input phase left shifted 3 bits. Acceptable input phases are any integer phase in a range from 0 to 360 degrees. A warning message should be produced if the input phase is not one of those listed here. Normal Phases (that is - NO warning message)

**Attribute: level**

**Fullname:** level of the desired tone

**Attribute Description** A 16 bit hexadecimal number which must correspond to the binary value of the following formula: 10 raised to the power of (((input level * .1) - 3.17) / 20) Acceptable input levels are the desired level times 10 in 1/10th level steps in a range from +3 dBm to -48 dBm. A warning message should be produced if the input level is not one of those listed here.

```
Normal Level (that is - NO warning message)
-------------------------------------------
     0  (Corresponds to 0 dBm)
  -100  (Corresponds to -10 dBm)
  -160  (Corresponds to -16 dBm)
```

Default Values: Default values for frequency, phase, and level may be used based on the 'tone_type' attribute. The default values are listed here.

| tone_type | freq | phase | level |
|---|---|---|---|
| TMMWATT | 1004 Hz | 0 | 0 dBm |
| TMMW_E | 804 Hz | 0 | -10 dBm |
| TMTPT | 2225 Hz | 0 | -10 dBm |

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# COS_CTGY

## 1. Description

This relation translates the class of service of a logical port, to the logical port category. The category of a logical port is used by the MFC signaling routines among other features. The supervision category is used to determine the charging/supervision responsibility of an exchange per call. It is used as key into the RLSUPERV relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | TLA |
| head table size | 512 |
| data page size | 512 |
| page level | 1 |
| permutation type | perm |

## 3. Field Layout

```
COS_CTGY    relid = 88    DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     cos         DMSERVCLASS  (enum)     <--- key
 (a) category    DMCATEGORY   (enum: 3)
 (b) supv_cat    DMSUPVCAT    (enum: 2)
         User and Compacted Tuple Layout   COS_CTGY
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |     |   |                                     |
 0  |      cos      |  a  | b |*************************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
     cos         DMSERVCLASS  (enum)     <--- key
 (a) category    DMCATEGORY   (enum: 3)
 (b) supv_cat    DMSUPVCAT    (enum: 2)
          Stored Tuple Layout     COS_CTGY
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |     |   |                                     |
 0  |      cos      |  a  | b |*************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLcos_ctgy

There are no population rules for this relation.

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# COT_CF

## 1. Description

Customer Originated Trace constructed feature options - used in SM. These constructed features can be assigned to analog and ISDN terminals.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| expected number of tuples | 3 |
| access type | DBACC_CIND |
| density | 2 |
| memory type | DBPRAM |
| distribution | LPFR |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
COT_CF      relid = 1100  DBSTATIC   DBACC_CIND  DBPRAM    LPFR    RCMAP
     feat_id     DMFID        (ushort: 10)     <--- key
     actvn       DMMC_ACTYP   (enum: 3)
 (a) dctvn       DMMC_DCTYP   (enum: 2)
 (b) ama_rec     DMBOOL       (enum: 1)
         User and Compacted Tuple Layout     COT_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |     |   | |                               |
  0 |      feat_id      |actvn| a |b|*******************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
     feat_id     DMFID        (ushort: 10)     <--- key
     actvn       DMMC_ACTYP   (enum: 3)
 (a) dctvn       DMMC_DCTYP   (enum: 2)
 (b) ama_rec     DMBOOL       (enum: 1)
           Stored Tuple Layout   COT_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |     |   | |                               |
  0 |      feat_id      |actvn| a |b|*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLcot_cf

**Relation Description** Customer originated trace constructed feature (COT_CF).
This relation gives Customer Originated Trace constructed feature information used in the AM and SM. These constructed features can be assigned to analog and ISDN terminals.

**Attribute: feat_id**

**Fullname:** feature identification

**Attribute Description** A BRCS constructed feature id consists of a modular feature type and a

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unique identifier. For an COT constructed feature, the modular feature type is MFCOT which is an enumeration of type DMmftype. The feature id must have a class of FACBRCS and a subclass of SCL_FEAT. If the feature is offered on a generally available basis, the feature must also have a class of FACBRCS and a subclass of SCL_FEAT.

**Attribute: actvn**

**Fullname:** activation

**Attribute Description** Method of feature activation. This is an enumeration of type DMmc_actyp. This feature is not able to be activated (customer cannot activate via a dialed code or feature button) for 5E5 so that actvn always has the value ACTNONE. Future generics may allow this feature to be activated via dialed codes or feature buttons.

**Attribute: dctvn**

**Fullname:** deactivation

**Attribute Description** Method of feature deactivation. This is an enumeration of type DMmc_dctyp. This feature is not able to be deactivated (customer cannot deactivate via a dialed code or feature button) for 5E5 so that dctvn always has the value DCTNONE. Future generics may allow this feature to be deactivated via dialed codes or feature buttons.

**Attribute: ama_rec**

**Fullname:** billing type

**Attribute Description** Type of billing to be performed. This is an enumeration of type DMbool. This billing can be done on a flat rate or usage sensitive basis according to how the subscribing user prefers to be billed or how the service provider decides it will bill if the feature is universally available. If ama_rec is set to DBYES, the billing will be done on a usage sensitive basis, whereas if it is set to DBNO, the billing will be done on a flat rate basis.

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# CPC_NI

## 1. Description

Combinations of Calling Party Category (CPC) and Network Identifier (NI) that are to receive congestion treatment in Level 1 congestion.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 32 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LRFR |
| relation type | DBSTATIC |

## 3. Field Layout

```
CPC_NI      relid = 2534  DBSTATIC   DBACC_HASH  DBPRAM    LRFR    NULL
     cpc          DMCPC        (enum: 5)     <--- key
     ni           DMNETID      (enum: 4)     <--- key
         User and Compacted Tuple Layout     CPC_NI
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |          |     |       |                                       |
  0 |   cpc    |*****|   ni  |***************************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
     cpc          DMCPC        (enum: 5)     <--- key
     ni           DMNETID      (enum: 4)     <--- key
           Stored Tuple Layout   CPC_NI
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |          |     |       |                                       |
  0 |   cpc    |*****|   ni  |***************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLcpc_ni

**Relation Description**

Calling Party Category and Network Identifier

Calling Party Category (CPC) and Network Identifier (NI) combinations that are to receive congestion treatment during Level 1 congestion of the Multiple Congestion Levels. This is used only by the BT7 signaling system.

**Attribute: cpc**

**Fullname:** Calling Party Category

**Attribute Description** The Calling Party Category provides information on the classification of the calling line (such as, residential, business, ISDN, etc.).

**Attribute: ni**

**Fullname:** Network Identifier

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**Attribute Description** The Network Identifier identifies the network in which a call originates (such as, British Telecom, MCL, VPN, etc.).

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# CPM_UNIT

## 1. Description

Call Progress Monitor (CPM) Units

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| expected tuples in relation | 2 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
CPM_UNIT    relid = 2160  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     unittype    DMUNITTYPE   (enum: 7)     <--- key
     unitno      DMUNITNO     (ushort: 8)     <--- key
     tnset1      DMOPRND1     (enum: 16)
     tnset2      DMOPRND1     (enum: 16)
     tnset3      DMOPRND1     (enum: 16)
     tnset4      DMOPRND1     (enum: 16)
     tnset5      DMOPRND1     (enum: 16)
         User, Compacted and Stored Tuple Layout   CPM_UNIT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               | |                             |
  0 |   unittype    |     unitno    |*|             tnset1            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             tnset2            |             tnset3            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |             tnset4            |             tnset5            |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
domain alCPM_UNIT struct  (3 sub-attributes)

unittype    .0fake  (enum)    unito     .6.fake  (ushort)    tnsets     .7.fake  (array [ 5 ] of .1fake )
         Structure Layout    alCPM_UNIT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               | |                             |
  0 |   unittype    |     unitno    |*|             tnsets            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                             tnsets                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             tnsets                            |
    |---------------+---------------+---------------+---------------|
```

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```
( 12 bytes )
```

## 4. Population Rules for RLcpm_unit

**Relation Description** Call Progress Monitoring Unit Relation
This relation defines the tone sets that a particular unit used in CPM supports. For valid CPM unit types see the checks section.

**Attribute: unittype**

**Fullname:** This attribute identifies the unit type.

**Attribute Description** This attribute is the first key to the relation RLcpm_unit.

**Attribute: unitno**

**Fullname:** This attribute defines the unit number.

**Attribute Description** This attribute is the second key to the relation RLcpm_unit.

**Attribute: tnset[*]**

**Fullname:** This attribute defines the [1-5] tone sets that the unit supports.

**Attribute Description** This attribute defines the key into the relation RLcpmtnset.

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# CPMFLTR

## 1. Description

Specifies filter coefficients defined for call progress monitoring (CPM).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| expected tuples in relation | 10 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCDATA |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
CPMFLTR     relid = 2154  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCDATA
     filterid    DMCDAFIL     (enum: 5)     <--- key
     toneset     DMOPRND1     (enum: 16)     <--- key
     filtcnt     DMUNS6       (ushort: 6)
     padd        DMUNS3       (ushort: 3)
     filcoe1     DMHEX16      (ushort)
     filcoe2     DMHEX16      (ushort)
     filcoe3     DMHEX16      (ushort)
     filcoe4     DMHEX16      (ushort)
     filcoe5     DMHEX16      (ushort)
     filcoe6     DMHEX16      (ushort)
     filcoe7     DMHEX16      (ushort)
     filcoe8     DMHEX16      (ushort)
     filcoe9     DMHEX16      (ushort)
     filcoe10    DMHEX16      (ushort)
     filcoe11    DMHEX16      (ushort)
     filcoe12    DMHEX16      (ushort)
     filcoe13    DMHEX16      (ushort)
     filcoe14    DMHEX16      (ushort)
     filcoe15    DMHEX16      (ushort)
     filcoe16    DMHEX16      (ushort)
     filcoe17    DMHEX16      (ushort)
     filcoe18    DMHEX16      (ushort)
     filcoe19    DMHEX16      (ushort)
     filcoe20    DMHEX16      (ushort)
     filcoe21    DMHEX16      (ushort)
     filcoe22    DMHEX16      (ushort)
     filcoe23    DMHEX16      (ushort)
     filcoe24    DMHEX16      (ushort)
     filcoe25    DMHEX16      (ushort)
     filcoe26    DMHEX16      (ushort)
     filcoe27    DMHEX16      (ushort)
     filcoe28    DMHEX16      (ushort)
     filcoe29    DMHEX16      (ushort)
     filcoe30    DMHEX16      (ushort)
     filcoe31    DMHEX16      (ushort)
     filcoe32    DMHEX16      (ushort)
```

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User, Compacted and Stored Tuple Layout CPMFLTR

| | 3 2 1 0 | 3 2 1 0 | 3 2 1 0 | 3 2 1 0 |
|---|---|---|---|---|
| 0 | filterid | ******** | toneset | |
| 4 | filtcnt | padd | ******** | filcoe1 |
| 8 | filcoe2 | | filcoe3 | |
| 12 | filcoe4 | | filcoe5 | |
| 16 | filcoe6 | | filcoe7 | |
| 20 | filcoe8 | | filcoe9 | |
| 24 | filcoe10 | | filcoe11 | |
| 28 | filcoe12 | | filcoe13 | |
| 32 | filcoe14 | | filcoe15 | |
| 36 | filcoe16 | | filcoe17 | |
| 40 | filcoe18 | | filcoe19 | |
| 44 | filcoe20 | | filcoe21 | |
| 48 | filcoe22 | | filcoe23 | |
| 52 | filcoe24 | | filcoe25 | |
| 56 | filcoe26 | | filcoe27 | |
| 60 | filcoe28 | | filcoe29 | |
| 64 | filcoe30 | | filcoe31 | |

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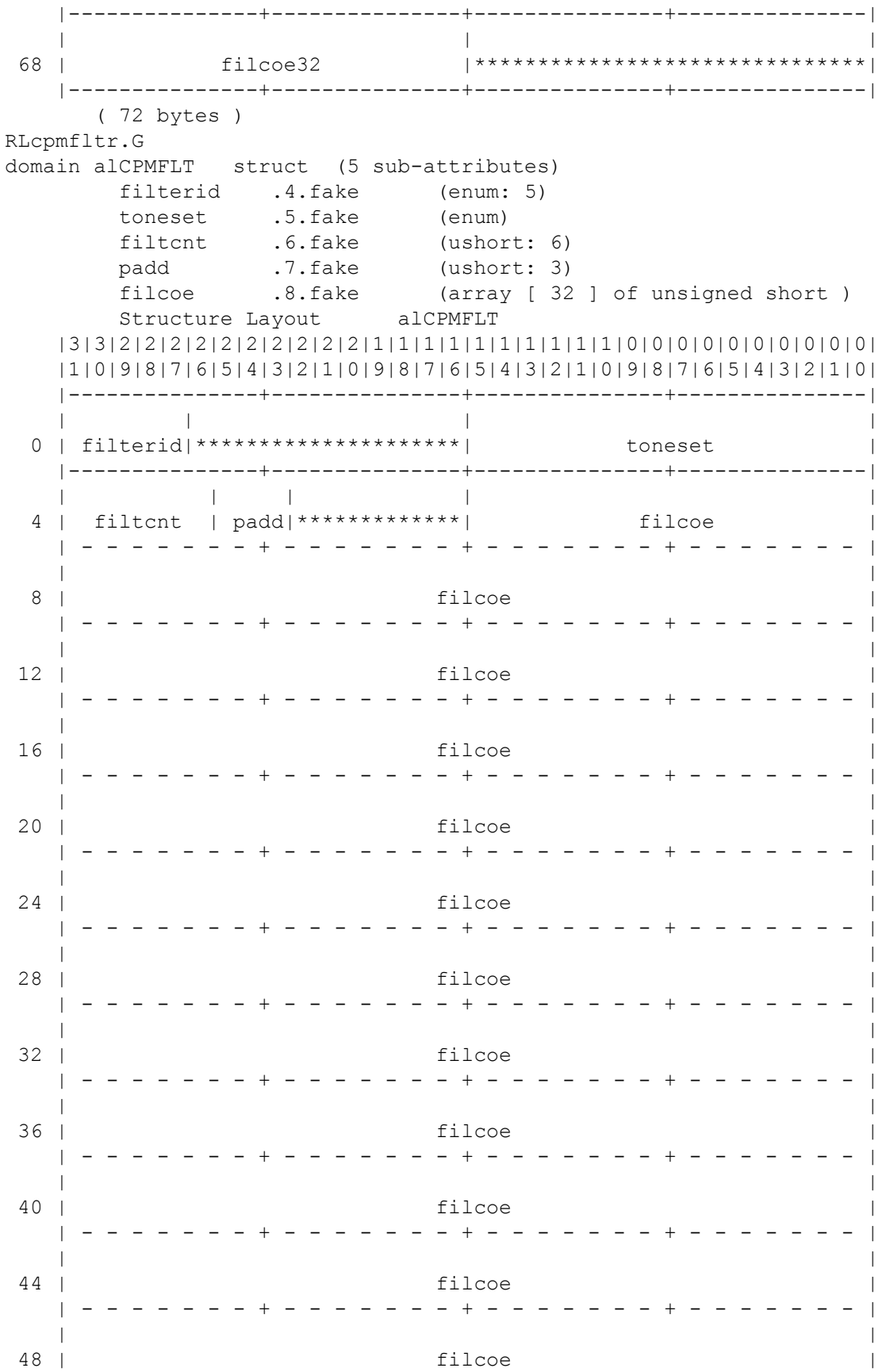
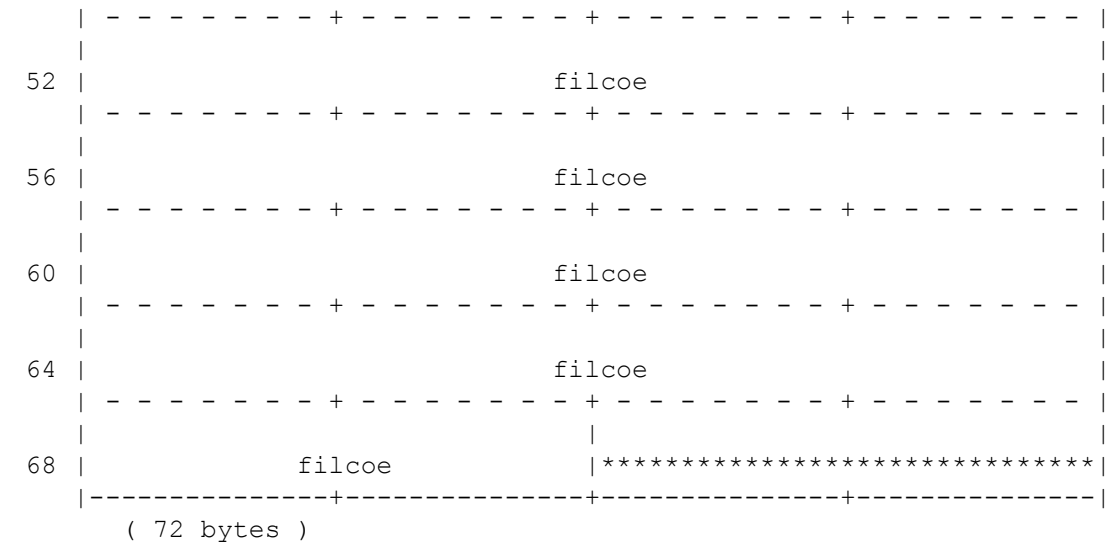

filcoe32
( 72 bytes )
RLcpmfltr.G
domain alCPMFLT struct (5 sub-attributes)
filterid .4.fake (enum: 5)
toneset .5.fake (enum)
filtcnt .6.fake (ushort: 6)
padd .7.fake (ushort: 3)
filcoe .8.fake (array [ 32 ] of unsigned short )
Structure Layout alCPMFLT
3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
filterid
toneset
filtcnt
padd
filcoe
0
4
8
12
16
20
24
28
32
36
40
44
48




## 4. Population Rules for RLcpmfltr

**Relation Description** Call Progress Monitoring Filters
This relation specifies the filters used for Call Progress Monitoring and their coefficients. For valid CPM unit types see RLcpm_unit.R.

**Attribute: filterid**

**Fullname:** Call Progress Monitoring Filter Identification

**Attribute Description** This is the key to the relation. The value of this attribute is provided by the filter attributes in RLcpmtnid.

**Attribute: toneset**

**Fullname:** Tone Set

**Attribute Description** This key attribute associates a set of filters with a tone set.

**Attribute: filtcnt**

**Fullname:** Filter Count

**Attribute Description** This attribute defines the number of active filter coefficients.

**Attribute: padd**

**Fullname:** Padding

**Attribute Description** This attribute is used for padding.

**Attribute: filcoe[*]**

**Fullname:** Filter Coefficient

**Attribute Description** This attribute specifies the coefficients associated with the Call Progress Monitoring Filter where (*) range from 1-32.

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# CPMTNID

## 1. Description

Call progress monitoring (CPM) tone segments.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 50 |
| expected tuples in relation | 5 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCDATA |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
CPMTNID     relid = 2159  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCDATA
     tone_id     DMOPRND1     (enum: 16)     <--- key
     ncycles     DMUSHORT     (ushort)
     seg1        DMCDASEG     (struct)
         fil1        DMCDAFIL     (enum: 5)
         fil2        DMCDAFIL     (enum: 5)
         mindur      DMUSHORT     (ushort)
         maxdur      DMUSHORT     (ushort)
     seg2        DMCDASEG     (struct)
         fil1        DMCDAFIL     (enum: 5)
         fil2        DMCDAFIL     (enum: 5)
         mindur      DMUSHORT     (ushort)
         maxdur      DMUSHORT     (ushort)
     seg3        DMCDASEG     (struct)
         fil1        DMCDAFIL     (enum: 5)
         fil2        DMCDAFIL     (enum: 5)
         mindur      DMUSHORT     (ushort)
         maxdur      DMUSHORT     (ushort)
     seg4        DMCDASEG     (struct)
         fil1        DMCDAFIL     (enum: 5)
         fil2        DMCDAFIL     (enum: 5)
         mindur      DMUSHORT     (ushort)
         maxdur      DMUSHORT     (ushort)
     seg5        DMCDASEG     (struct)
         fil1        DMCDAFIL     (enum: 5)
         fil2        DMCDAFIL     (enum: 5)
         mindur      DMUSHORT     (ushort)
         maxdur      DMUSHORT     (ushort)
     seg6        DMCDASEG     (struct)
         fil1        DMCDAFIL     (enum: 5)
         fil2        DMCDAFIL     (enum: 5)
         mindur      DMUSHORT     (ushort)
         maxdur      DMUSHORT     (ushort)
     seg7        DMCDASEG     (struct)
         fil1        DMCDAFIL     (enum: 5)
         fil2        DMCDAFIL     (enum: 5)
         mindur      DMUSHORT     (ushort)
```

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```
        maxdur      DMUSHORT     (ushort)
    seg8        DMCDASEG     (struct)
        fil1        DMCDAFIL     (enum: 5)
        fil2        DMCDAFIL     (enum: 5)
        mindur      DMUSHORT     (ushort)
        maxdur      DMUSHORT     (ushort)
    seg9        DMCDASEG     (struct)
        fil1        DMCDAFIL     (enum: 5)
        fil2        DMCDAFIL     (enum: 5)
        mindur      DMUSHORT     (ushort)
        maxdur      DMUSHORT     (ushort)
    seg10       DMCDASEG     (struct)
        fil1        DMCDAFIL     (enum: 5)
        fil2        DMCDAFIL     (enum: 5)
        mindur      DMUSHORT     (ushort)
        maxdur      DMUSHORT     (ushort)
        User, Compacted and Stored Tuple Layout    CPMTNID
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             tone_id           |             ncycles           |
   |===============+============  seg1 ============+===============|
   |         |     |         |     |                               |
 4 |   fil1  |*****|   fil2  |*****|              mindur           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |              maxdur           |*******************************|
   |===============+============  seg2 ============+===============|
   |         |     |         |     |                               |
12 |   fil1  |*****|   fil2  |*****|              mindur           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |              maxdur           |*******************************|
   |===============+============  seg3 ============+===============|
   |         |     |         |     |                               |
20 |   fil1  |*****|   fil2  |*****|              mindur           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
24 |              maxdur           |*******************************|
   |===============+============  seg4 ============+===============|
   |         |     |         |     |                               |
28 |   fil1  |*****|   fil2  |*****|              mindur           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
32 |              maxdur           |*******************************|
   |===============+============  seg5 ============+===============|
   |         |     |         |     |                               |
36 |   fil1  |*****|   fil2  |*****|              mindur           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
40 |              maxdur           |*******************************|
   |===============+============  seg6 ============+===============|
   |         |     |         |     |                               |
```

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```
 44 |   fil1  |*****|   fil2  |*****|             mindur            |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
 48 |             maxdur              |*******************************|
    |===============+============  seg7 ============+===============|
    |          |     |          |     |                               |
 52 |   fil1  |*****|   fil2  |*****|             mindur            |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
 56 |             maxdur              |*******************************|
    |===============+============  seg8 ============+===============|
    |          |     |          |     |                               |
 60 |   fil1  |*****|   fil2  |*****|             mindur            |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
 64 |             maxdur              |*******************************|
    |===============+============  seg9 ============+===============|
    |          |     |          |     |                               |
 68 |   fil1  |*****|   fil2  |*****|             mindur            |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
 72 |             maxdur              |*******************************|
    |===============+============ seg10 ============+===============|
    |          |     |          |     |                               |
 76 |   fil1  |*****|   fil2  |*****|             mindur            |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
 80 |             maxdur              |*******************************|
    |===============+===============+===============+===============|
      ( 84 bytes )
RLcpmtnid.G
domain alCPMTNI   struct  (3 sub-attributes)
         tone_id     .3.fake      (enum)
         ncycles     unsigned short (ushort)
         seg         .4.fake      (array [ 10 ] of .2fake )
             fil1        .0.fake      (enum: 5)
             fil2        .1.fake      (enum: 5)
             mindur      unsigned short (ushort)
             maxdur      unsigned short (ushort)
         Structure Layout      alCPMTNI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |            tone_id              |            ncycles            |
    |===============+===========  seg[0] ===========+===============|
    |          |     |          |     |                               |
  4 |   fil1  |*****|   fil2  |*****|             mindur            |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  8 |             maxdur              |*******************************|
    |===============+===========  seg[1] ===========+===============|
    |          |     |          |     |                               |
 12 |   fil1  |*****|   fil2  |*****|             mindur            |
```

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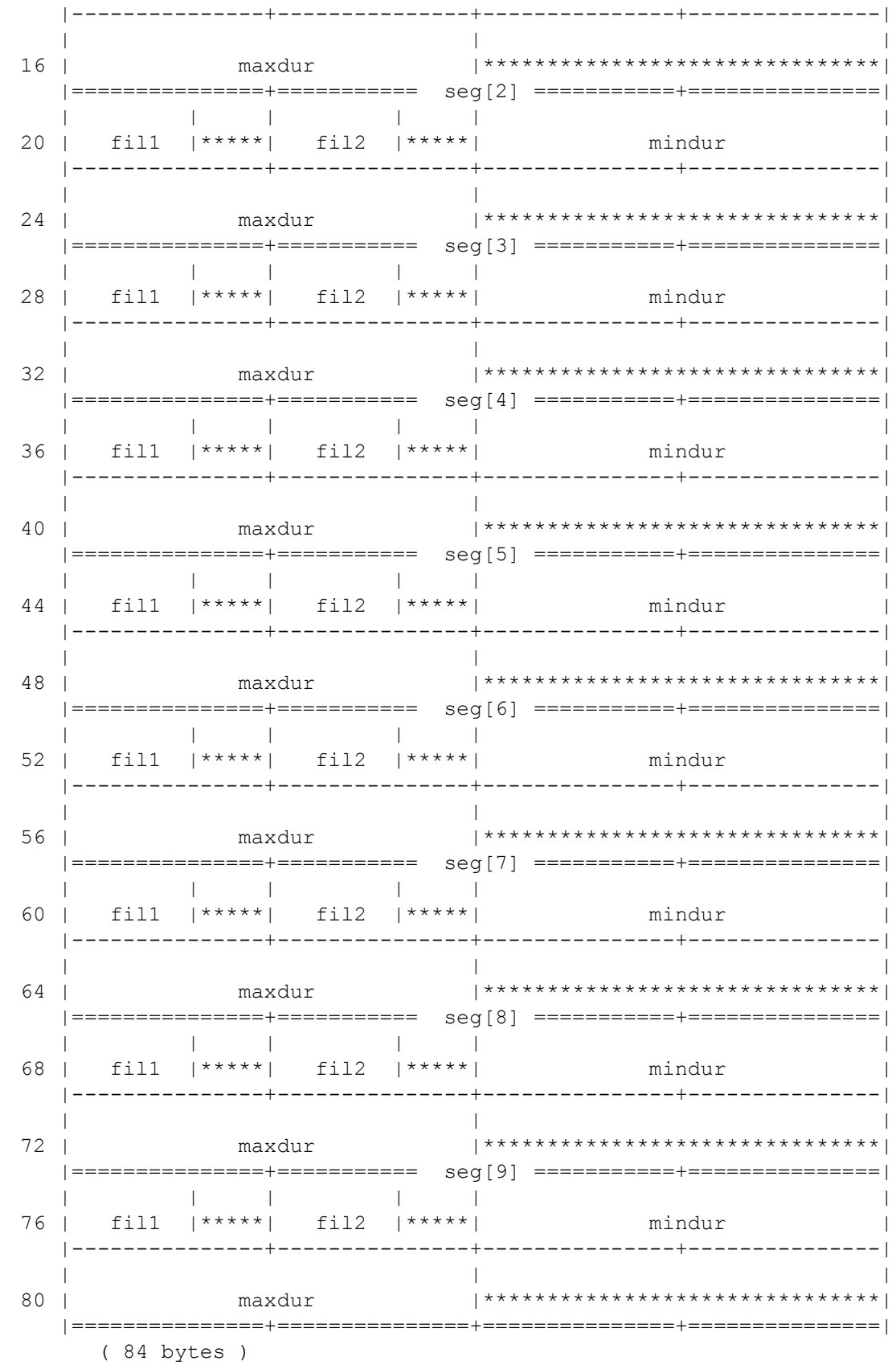


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## 4. Population Rules for RLcpmtnid

**Relation Description** Call Progress Monitoring Tone Id
This relation defines the filters and durations of CPM tones to be analyzed. For valid CPM unit types see RLcpm_unit.R.

**Attribute: tone_id**

**Fullname:** Tone Identification

**Attribute Description** This attribute is the key to the relation. It identifies the CPM tone to be analyzed.

**Attribute: ncycles**

**Fullname:** Number of Cycles

**Attribute Description** Number of cycles defines the number of times that all segments in a tone will be processed.

**Attribute: seg[*]**

**Fullname:** Segment [*] of RLcpmtnid where [*] for [1-10]

**Attribute Description** This segment defines the filters 1 and 2, minimum and maximum durations of CPM tones.

**Attribute: seg[*].fil1**

**Fullname:** Segment [1-10] filter 1

**Attribute Description** This attribute defines the first filter in Hz. It is used in the segment [1-10] of the tone.

**Attribute: seg[*].fil2**

**Fullname:** Segment [1-10] filter 2

**Attribute Description** This attribute defines the second filter in Hz. It is used in the segment [1-10] of the tone.

**Attribute: seg[*].mindur**

**Fullname:** Minimum duration for segment [1-10]

**Attribute Description** This attribute defines the minimum duration the segment [1-10] tone should be present so it can be analyzed. This field is in milliseconds.

**Attribute: seg[*].maxdur**

**Fullname:** Maximum duration of segment[1-10]

**Attribute Description** This attribute defines the maximum duration that the segment 1 tone can be present to be analyzed for CPM. This field is in milliseconds.

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# CPMTNSET

## 1. Description

Call progress monitoring (CPM) tone set.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 5 |
| expected tuples in relation | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCDATA |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
CPMTNSET    relid = 2162  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCDATA
     toneset     DMOPRND1     (enum: 16)     <--- key
     tone1       DMOPRND1     (enum: 16)
     tone2       DMOPRND1     (enum: 16)
     tone3       DMOPRND1     (enum: 16)
     tone4       DMOPRND1     (enum: 16)
     tone5       DMOPRND1     (enum: 16)
     tone6       DMOPRND1     (enum: 16)
     tone7       DMOPRND1     (enum: 16)
     tone8       DMOPRND1     (enum: 16)
     tone9       DMOPRND1     (enum: 16)
     tone10      DMOPRND1     (enum: 16)
     cont_dur    DMUSHORT     (ushort)
         User, Compacted and Stored Tuple Layout   CPMTNSET
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             toneset           |              tone1            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              tone2            |              tone3            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |              tone4            |              tone5            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |              tone6            |              tone7            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 16 |              tone8            |              tone9            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 20 |              tone10           |            cont_dur           |
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
RLcpmtnset.G
```

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```
domain alCPMTNS   struct  (3 sub-attributes)
         toneset     .11.fake     (enum)
         tone        .12.fake     (array [ 10 ] of .0fake )
         cont_dur    unsigned short (ushort)
         Structure Layout      alCPMTNS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            toneset            |              tone             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  4 |                               tone                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  8 |                               tone                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 12 |                               tone                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 16 |                               tone                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 20 |              tone             |            cont_dur           |
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population Rules for RLcpmtnset

**Relation Description** Call Progress Monitoring Tone Set Relation
This relation defines the set of tones required on a per country basis for CPM. A maximum of ten tones can be defined in a tone set. For valid CPM unit types see RLcpm_unit.R.

**Attribute: toneset**

**Fullname:** This attribute identifies the set of tones. A maximum of ten sets of tones can be defined.

**Attribute Description** This attribute is the key to the relation RLcpmtnset.

**Attribute: tone[*]**

**Fullname:** This attribute defines the [1-10] tone name in the set.

**Attribute Description** This attribute defines the key into the relation RLcpmtnid.

**Attribute: cont_dur**

**Fullname:** Continuation duration

**Attribute Description** Specifies the duration of a tone beyond which it is deemed continuous. This attribute is in milliseconds.

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# CPNBN_CF

## 1. Description

CPN/BN constructed feature relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 255 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | DBNO |

## 3. Field Layout

```
CPNBN_CF    relid = 1290  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     fid         DMMCC_FID    (ushort)     <--- key, not stored
     ffcf5       DMUNS8       (ushort: 8)
 (a) act_type    DMMC_ACTYP   (enum: 3)
 (b) cpnbnopt    DMCPNBNOPT   (enum: 3)
 (c) deact_type  DMMC_DCTYP   (enum: 2)
 (d) bill_opt    DMBILL_OPT   (enum: 1)
 (e) shdn_opt    DMSHDN_OPT   (enum: 1)
 (f) ffcf1       DMBOOL       (enum: 1)
 (g) ffcf2       DMBOOL       (enum: 1)
 (h) ffcf3       DMBOOL       (enum: 1)
 (i) ffcf4       DMBOOL       (enum: 1)
        User and Compacted Tuple Layout   CPNBN_CF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |              fid              |*******************************|
   |---------------+---------------+---------------+---------------|
   |               |     |     |   | | | | | | |                   |
 4 |     ffcf5     |  a  |  b  | c |d|e|f|g|h|i|*******************|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
     ffcf5       DMUNS8       (ushort: 8)
 (a) act_type    DMMC_ACTYP   (enum: 3)
 (b) cpnbnopt    DMCPNBNOPT   (enum: 3)
 (c) deact_type  DMMC_DCTYP   (enum: 2)
 (d) bill_opt    DMBILL_OPT   (enum: 1)
 (e) shdn_opt    DMSHDN_OPT   (enum: 1)
 (f) ffcf1       DMBOOL       (enum: 1)
 (g) ffcf2       DMBOOL       (enum: 1)
 (h) ffcf3       DMBOOL       (enum: 1)
 (i) ffcf4       DMBOOL       (enum: 1)
          Stored Tuple Layout     CPNBN_CF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |     |     |   | | | | | | |                   |
```

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```
 0 |     ffcf5     |  a  |  b  | c |d|e|f|g|h|i|******************|
   |---------------+-----+-----+---+-+-+-+-+-+-+------------------|
       ( 4 bytes )
```

## 4. Population Rules for RLcpnbn_cf

**Relation Description** This relation defines the CPN/BN constructed and pre-constructed feature data. It includes feature ID, method of feature activation and deactivation, CPN/BN options, billing options and shared DN options. This feature is a terminating feature that allows the calling party number or billing number of the originator to be sent to an ISDN terminal. This feature can be assigned to directory numbers and to multi-line hunt group members. The class of service that this feature can be assigned to is FC_ISDN, FC_ISATND, and to FC_INDVDL. If the directory number of the FC_INDVDL class of service is not going to be shared with ISDN terminals, then this feature does not provide any service to the analog terminal. This is a new modular feature type, MFCPI. Only one MFCPI feature may be assigned to a directory number or to a multi-line hunt group member.

**Attribute: fid**

**Fullname:** CPN/BN Constructed Feature ID
**Attribute Description** Used to identify CPN/BN constructed and pre-constructed features. Consists of a modular feature type (MFCPI) (top 6 bits) and a unique identifier (1-1023) (bottom 10 bits).

**Attribute: act_type**

**Fullname:** Feature Activation Method
**Attribute Description** Used to identify how CPN/BN constructed and pre-constructed features are activated. These features can always be active or can be activated using dial code or feature button.

**Attribute: deact_type**

**Fullname:** CPN/BN Constructed Feature Deactivation Method
**Attribute Description** Used to identify method of deactivating CPN/BN constructed and pre-constructed features. These features can always be active (No way to deactivate them) or can be deactivated using dialed codes or feature buttons.

**Attribute: cpnbnopt**

**Fullname:** CPN/BN Options
**Attribute Description** Used to define the CPN/BN options. A user can have the following four options if they subscribe to this feature:

```
CPN_ONLY  - Receive only calling party number if available.
BN_ONLY   - Receive only billing number if available.
CPN_PREF  - Prefers to receive calling party number, but if not
            available will receive billing number.
BN_PREF   - Prefers to receive billing number, but if not
            available will receive calling party number.
```

**Attribute: bill_opt**

**Fullname:** CPN/BN Billing Options
**Attribute Description** Used to identify how a subscriber is going to be billed (usage-sensitive or flat-rate billing). If usage-sensitive billing is selected, a billing record will be generated every 24 hours with a count of the number of CPNs and BNs delivered to the user and a count of the number of CPNs and BNs that could not be delivered because they were not available or were private. If the feature is deactivated, the billing counts will not be made.

**Attribute: shdn_opt**

**Fullname:** CPN/BN Shared DN Options
**Attribute Description** Used to identify if all terminals on a shared DN receive the CPN/BN if

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CPN/BN has been subscribed to or if only the terminal where the DN is primary (lead port) receives the CPN/BN. When the CPN/BN feature is assigned to an analog DN this attribute must be set to ALL so that the ISDN terminals sharing the DN will get the CPN/BN data.

**Attribute: ffcf1**

**Fullname:** bit reserved for future special feature use
**Attribute Description** Not assigned yet.

**Attribute: ffcf2**

**Fullname:** bit reserved for future special feature use
**Attribute Description** Not assigned yet.

**Attribute: ffcf3**

**Fullname:** bit reserved for future special feature use
**Attribute Description** Not assigned yet.

**Attribute: ffcf4**

**Fullname:** bit reserved for future special feature use
**Attribute Description** Not assigned yet.

**Attribute: ffcf5**

**Fullname:** unsigned 8 reserved for future special feature use
**Attribute Description** Not assigned yet.

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# CQMASK

## 1. Description

This static relation containing bit masks of all principle and supporting call queues.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1998 |
| expected number of tuples | 200 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | ACDBRCS |
| relation type | DBSTATIC |
| trigger function | CDtcqmask |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
CQMASK      relid = 2343  DBSTATIC   DBACC_CIND  DBPRAM    LP      ACDBRCS
     serv_tm     DMSTNUM      (ushort: 10)     <--- key
 (a) st_role     DMSTROLE     (enum: 1)     <--- key
     cq_count    DMUNS10      (ushort: 10)
     cqmask1     DMHEX32      (ulong)
     cqmask2     DMHEX32      (ulong)
     cqmask3     DMHEX32      (ulong)
     cqmask4     DMHEX32      (ulong)
     cqmask5     DMHEX32      (ulong)
     cqmask6     DMHEX32      (ulong)
     cqmask7     DMHEX32      (ulong)
     cqmask8     DMHEX32      (ulong)
     cqmask9     DMHEX32      (ulong)
     cqmask10    DMHEX32      (ulong)
     cqmask11    DMHEX32      (ulong)
     cqmask12    DMHEX32      (ulong)
     cqmask13    DMHEX32      (ulong)
     cqmask14    DMHEX32      (ulong)
     cqmask15    DMHEX32      (ulong)
     cqmask16    DMHEX32      (ulong)
     cqmask17    DMHEX32      (ulong)
     cqmask18    DMHEX32      (ulong)
     cqmask19    DMHEX32      (ulong)
     cqmask20    DMHEX32      (ulong)
     cqmask21    DMHEX32      (ulong)
     cqmask22    DMHEX32      (ulong)
     cqmask23    DMHEX32      (ulong)
     cqmask24    DMHEX32      (ulong)
     cqmask25    DMHEX32      (ulong)
     cqmask26    DMHEX32      (ulong)
     cqmask27    DMHEX32      (ulong)
     cqmask28    DMHEX32      (ulong)
     cqmask29    DMHEX32      (ulong)
```

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```
     cqmask30    DMHEX32      (ulong)
     cqmask31    DMHEX32      (ulong)
     cqmask32    DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout CQMASK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   | |         |                   |           |
  0 |      serv_tm      |a|*********|      cq_count     |***********|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            cqmask1                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                            cqmask2                            |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                                                               |
124 |                            cqmask31                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
128 |                            cqmask32                           |
    |---------------+---------------+---------------+---------------|
       ( 132 bytes )
domain alCQMASK   struct  (4 sub-attributes)
         serv_tm     .2.fake      (ushort: 10)
 (a)     st_role     .0fake       (enum)
         cq_count    .3.fake      (ushort: 10)
         cqmask      .4.fake      (array [ 32 ] of unsigned long )

         Structure Layout      alCQMASK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   | |         |                   |           |
  0 |      serv_tm      |a|*********|      cq_count     |***********|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            cqmask                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
  8 |                            cqmask                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
                                    .
                                    .
                                    .
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
124 |                            cqmask                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
```

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```
128 |                              cqmask                                |
    |----------------+----------------+----------------+----------------|
       ( 132 bytes )
```

## 4. Population Rules for RLcqmask

**Relation Description** Call Queue Mask
This relation contains a bit mask of all 999 principle call queues and all 999 supporting call queues for a serving team. A principle call queue tuple or supporting call queue tuple will be inserted upon assigning the associated serving team to a call queue.

**Attribute: serv_tm**

**Fullname:** Serving Team Number

**Attribute Description** This key attribute is the serving team number.

**Attribute: st_role**

**Fullname:** Serving Team Role

**Attribute Description** This second key attribute defines the role of the serving team. If this attribute is CD_P, the call queue mask bits represent the call queues that use this serving team as its "principle" serving team. If this attribute is CD_S, the mask bits represent the call queues that use this serving team as a "supporting" serving team.

**Attribute: cq_count**

**Fullname:** Call queue mask bit count

**Attribute Description** This is a count of how many bits are set to 1 in cqmask1 through cqmask32. Essentially this is the count of principle/supporting call queues. This is an internally maintained count of bits set and does not appear in any ODA forms.

**Attribute: cqmask1**

**Fullname:** Call Queue Mask part 1

**Attribute Description** Mask for call queues 1-32. The low order bit (that is, least significant) represents call queue 1.

cqmask1 through cqmask32 form a 999 bit mask. A 1 indicates that this team (principle/supporting) serves the call queue, a 0 indicates that it does not. If the bit mask is all 0s, then the serv_tm should not appear in any RLcqparm tuple.

The first serving team in a call queue's list is called the principle serving team (attribute serv_tm in RLcqparm), all others are called supporting serving teams (attribute ifsstm[1-8].sup_tm in RLcqparm).

If this tuple represents a "principle" serving team: If a bit is set in a given mask, the same bit in the same mask for a different serv_tm must NOT be set. For each bit set in a mask for a serv_tm, there must exist a corresponding tuple in RLcqparm having the same call queue and serv_tm. If this tuple represents a "supporting" serving team: The attributes cqmask1 thru cqmask32 are used by Intraflow. It indicates supporting call queues for this serving team. A supporting call queue is a call queue that is handled by a supporting serving team. This bit field is used to indicate the supporting call queues this supporting serving team handles.

For example, assume a tuple in RLstparm has a key value of 3. If a tuple keyed by call queue 1 in RLcqparm has supporting team 1 equal to 3 (ifsstm1.sup_tm=3 in RLcqparm) and a tuple keyed by

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call queue 5 in RLcqparm has supporting team 1 equal to 3 (ifsstm1.sup_tm=3 in RLcqparm) bits 1 and 5 would be set in cqmask1 indicating the supporting call queues served by this supporting serving team.

```
(binary)cqmask1=00000000000000000000000000010001
(hex)   cqmask1=0x00000011
```

This bit field is maintained and updated internally and does not appear on any ODA form.

**Attribute: cqmask2**

**Fullname:** Call Queue Mask part 2

**Attribute Description** Mask for call queues 33-64. Low order bit represents call queue 33.

**Attribute: cqmask3**

**Fullname:** Call Queue Mask part 3

**Attribute Description** Mask for call queues 65-96. Low order bit represents call queue 65.

**Attribute: cqmask4**

**Fullname:** Call Queue Mask part 4

**Attribute Description** Mask for call queues 97-128. Low order bit represents call queue 97.

**Attribute: cqmask5**

**Fullname:** Call Queue Mask part 5

**Attribute Description** Mask for call queues 129-160. Low order bit represents call queue 129.

**Attribute: cqmask6**

**Fullname:** Call Queue Mask part 6

**Attribute Description** Mask for call queues 161-192. Low order bit represents call queue 161.

**Attribute: cqmask7**

**Fullname:** Call Queue Mask part 7

**Attribute Description** Mask for call queues 193-224. Low order bit represents call queue 193.

**Attribute: cqmask8**

**Fullname:** Call Queue Mask part 8

**Attribute Description** Mask for call queues 225-256. Low order bit represents call queue 225.

**Attribute: cqmask9**

**Fullname:** Call Queue Mask part 9

**Attribute Description** Mask for call queues 257-288. Low order bit represents call queue 257.

**Attribute: cqmask10**

**Fullname:** Call Queue Mask part 10

**Attribute Description** Mask for call queues 289-320. Low order bit represents call queue 289.

**Attribute: cqmask11**

**Fullname:** Call Queue Mask part 11

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**Attribute Description** Mask for call queues 321-352. Low order bit represents call queue 321.

**Attribute: cqmask12**
**Fullname:** Call Queue Mask part 12

**Attribute Description** Mask for call queues 353-384. Low order bit represents call queue 353.

**Attribute: cqmask13**
**Fullname:** Call Queue Mask part 13

**Attribute Description** Mask for call queues 385-416. Low order bit represents call queue 385.

**Attribute: cqmask14**
**Fullname:** Call Queue Mask part 14

**Attribute Description** Mask for call queues 417-448. Low order bit represents call queue 417.

**Attribute: cqmask15**
**Fullname:** Call Queue Mask part 15

**Attribute Description** Mask for call queues 449-480. Low order bit represents call queue 449.

**Attribute: cqmask16**
**Fullname:** Call Queue Mask part 16

**Attribute Description** Mask for call queues 481-512. Low order bit represents call queue 481.

**Attribute: cqmask17**
**Fullname:** Call Queue Mask part 17

**Attribute Description** Mask for call queues 513-544. Low order bit represents call queue 513.

**Attribute: cqmask18**
**Fullname:** Call Queue Mask part 18

**Attribute Description** Mask for call queues 545-576. Low order bit represents call queue 545.

**Attribute: cqmask19**
**Fullname:** Call Queue Mask part 19

**Attribute Description** Mask for call queues 577-608. Low order bit represents call queue 577.

**Attribute: cqmask20**
**Fullname:** Call Queue Mask part 20

**Attribute Description** Mask for call queues 609-640. Low order bit represents call queue 609.

**Attribute: cqmask21**
**Fullname:** Call Queue Mask part 21

**Attribute Description** Mask for call queues 641-672. Low order bit represents call queue 641.

**Attribute: cqmask22**
**Fullname:** Call Queue Mask part 22

**Attribute Description** Mask for call queues 673-704. Low order bit represents call queue 673.

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**Attribute: cqmask23**

**Fullname:** Call Queue Mask part 23

**Attribute Description** Mask for call queues 705-736. Low order bit represents call queue 705.

**Attribute: cqmask24**

**Fullname:** Call Queue Mask part 24

**Attribute Description** Mask for call queues 737-768. Low order bit represents call queue 737.

**Attribute: cqmask25**

**Fullname:** Call Queue Mask part 25

**Attribute Description** Mask for call queues 769-800. Low order bit represents call queue 769.

**Attribute: cqmask26**

**Fullname:** Call Queue Mask part 26

**Attribute Description** Mask for call queues 801-832. Low order bit represents call queue 801.

**Attribute: cqmask27**

**Fullname:** Call Queue Mask part 27

**Attribute Description** Mask for call queues 833-864. Low order bit represents call queue 833.

**Attribute: cqmask28**

**Fullname:** Call Queue Mask part 28

**Attribute Description** Mask for call queues 865-896. Low order bit represents call queue 865.

**Attribute: cqmask29**

**Fullname:** Call Queue Mask part 29

**Attribute Description** Mask for call queues 897-928. Low order bit represents call queue 897.

**Attribute: cqmask30**

**Fullname:** Call Queue Mask part 30

**Attribute Description** Mask for call queues 929-960. Low order bit represents call queue 929.

**Attribute: cqmask31**

**Fullname:** Call Queue Mask part 31

**Attribute Description** Mask for call queues 961-992. Low order bit represents call queue 961.

**Attribute: cqmask32**

**Fullname:** Call Queue Mask part 32

**Attribute Description** Mask for call queues 993-999. Low order bit represents call queue 993.
( bits for call queues 1000-1024 are not used )

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# CQPARM

## 1. Description

This static relation containing call queue related information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 999 |
| expected number of tuples | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFR |
| application | ACDBRCS |
| relation type | DBSTATIC |
| trigger function | CDtcqparm |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
CQPARM      relid = 2344  DBSTATIC   DBACC_CIND  DBPRAM    LPFR    ACDBRCS
     call_que    DMCQNUM      (ushort: 10)     <--- key
     cqname      DMCTXT10     (array [ 10 ] of char )
     tgid        DMUNS16      (ushort)
     max_calls   DMCQDBNUM    (ushort)
 (a) que_busy    DMBOOL       (enum: 1)
 (b) dly_busy    DMBOOL       (enum: 1)
     ann1_routex  DMRTEIDX     (ushort: 12)
 (c) intra_alwd  DMBOOL       (enum: 1)
     ann2_routex  DMRTEIDX     (ushort: 12)
     ann3_routex  DMRTEIDX     (ushort: 12)
     cd_routex   DMRTEIDX     (ushort: 12)
     cw_on       DMUNS11      (ushort: 11)
     cw_off      DMUNS11      (ushort: 11)
     del1_thresh  DMUNS11      (ushort: 11)
     del2_thresh  DMUNS11      (ushort: 11)
     del3_thresh  DMUNS11      (ushort: 11)
     serv_tm     DMSTNUM      (ushort: 10)
     serv_obj    DMUNL10      (ulong: 10)
 (d) cq_state    DMCQSTATE    (enum: 2)
     acdgrp      DMACDGRP     (ushort: 10)
     ifsstm1     DMIFSST      (struct)
         sup_tm      DMSTNUM      (ushort: 10)
         dotflw      DMDOTFLW     (ushort: 11)
     ifsstm2     DMIFSST      (struct)
         sup_tm      DMSTNUM      (ushort: 10)
         dotflw      DMDOTFLW     (ushort: 11)
     ifsstm3     DMIFSST      (struct)
         sup_tm      DMSTNUM      (ushort: 10)
         dotflw      DMDOTFLW     (ushort: 11)
     ifsstm4     DMIFSST      (struct)
         sup_tm      DMSTNUM      (ushort: 10)
         dotflw      DMDOTFLW     (ushort: 11)
```

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```
    ifsstm5     DMIFSST      (struct)
        sup_tm      DMSTNUM      (ushort: 10)
        dotflw      DMDOTFLW     (ushort: 11)
    ifsstm6     DMIFSST      (struct)
        sup_tm      DMSTNUM      (ushort: 10)
        dotflw      DMDOTFLW     (ushort: 11)
    ifsstm7     DMIFSST      (struct)
        sup_tm      DMSTNUM      (ushort: 10)
        dotflw      DMDOTFLW     (ushort: 11)
    ifsstm8     DMIFSST      (struct)
        sup_tm      DMSTNUM      (ushort: 10)
        dotflw      DMDOTFLW     (ushort: 11)
    cqavail1    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(e)     cqcond      DMCQCOND     (enum: 2)
    cqavail2    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(f)     cqcond      DMCQCOND     (enum: 2)
    cqavail3    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(g)     cqcond      DMCQCOND     (enum: 2)
    cqavail4    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(h)     cqcond      DMCQCOND     (enum: 2)
    cqavail5    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(i)     cqcond      DMCQCOND     (enum: 2)
    cqavail6    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(j)     cqcond      DMCQCOND     (enum: 2)
    cqavail7    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(k)     cqcond      DMCQCOND     (enum: 2)
    acd_dn      DMLOCDN      (struct)     <--- compacted
        noc         DMNOC        (ushort: 8)
        digits      DMLOCDIG     (array [ 4 ] of char )
           User Tuple Layout    CQPARM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                   |           |                               |
 0 |      call_que     |***********|             cqname             |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                               |
 4 |                           cqname                              |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                               |
```

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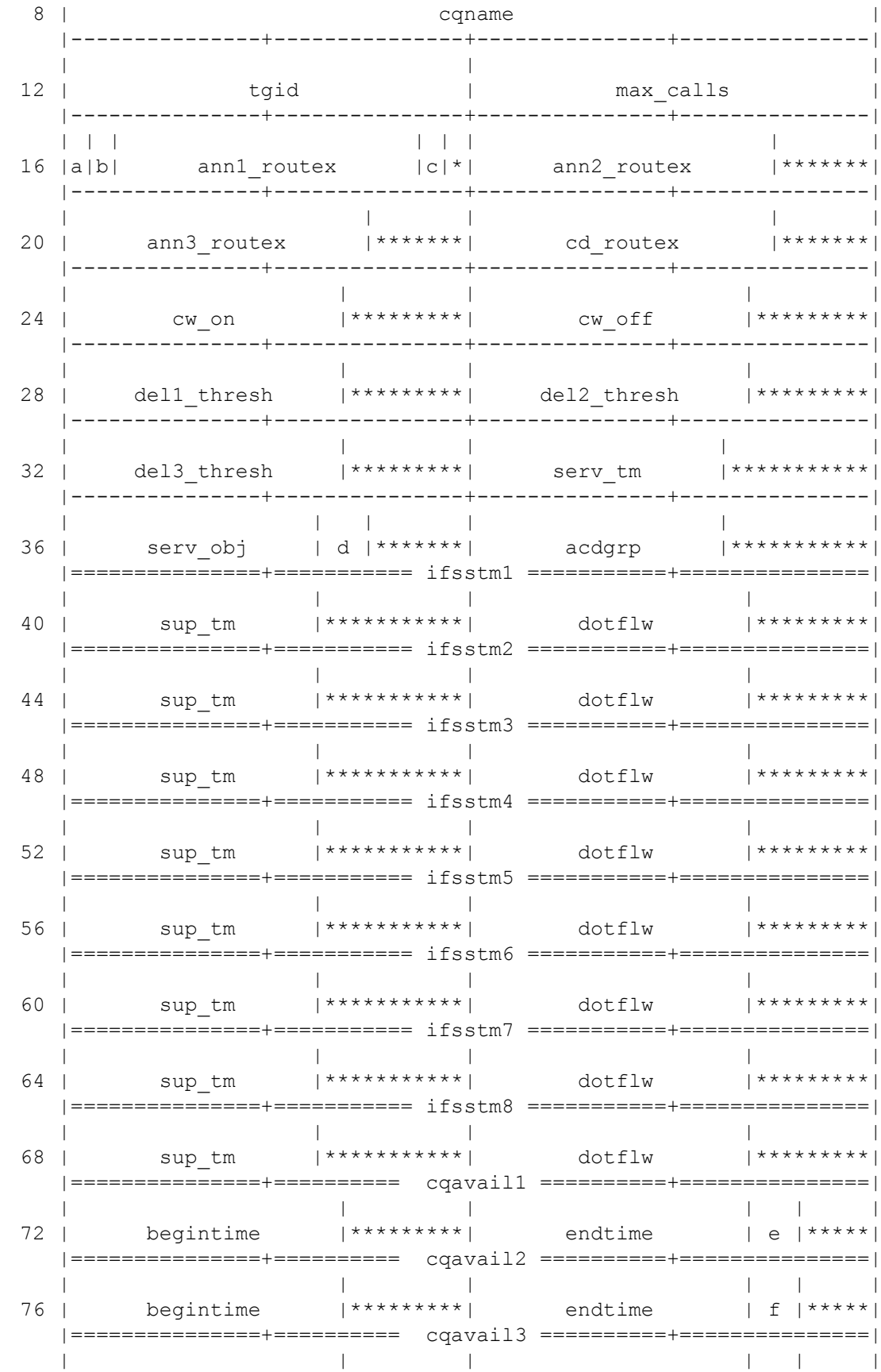


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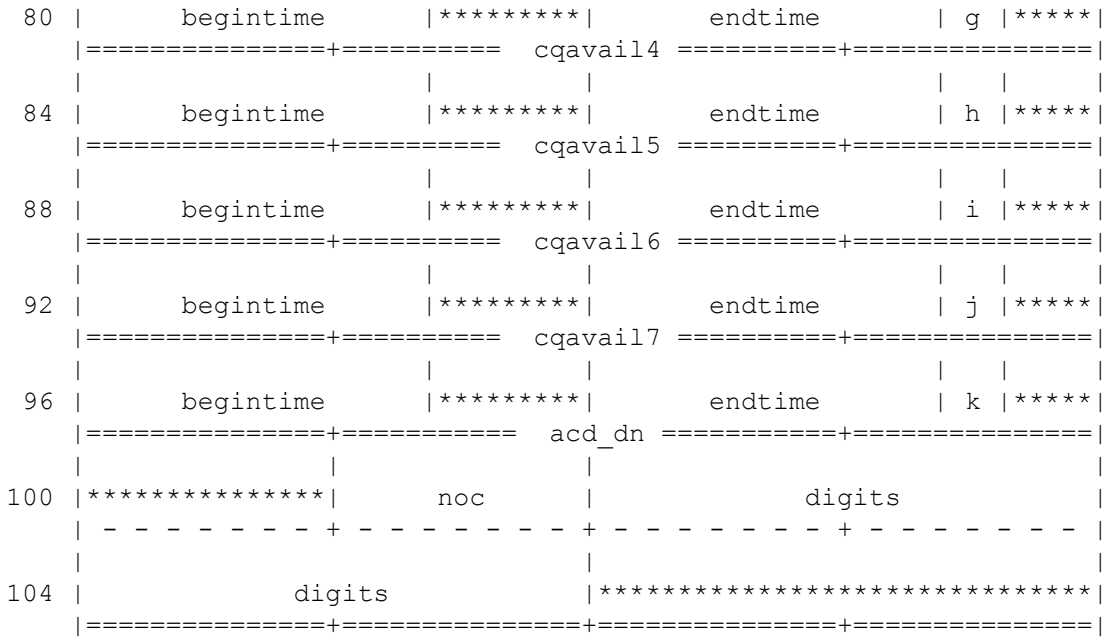


```
  ( 108 bytes )
    call_que    DMCQNUM      (ushort: 10)     <--- key
    cqname      DMCTXT10     (array [ 10 ] of char )
    tgid        DMUNS16      (ushort)
    max_calls   DMCQDBNUM    (ushort)
(a) que_busy    DMBOOL       (enum: 1)
(b) dly_busy    DMBOOL       (enum: 1)
    ann1_routex  DMRTEIDX     (ushort: 12)
(c) intra_alwd  DMBOOL       (enum: 1)
    ann2_routex  DMRTEIDX     (ushort: 12)
    ann3_routex  DMRTEIDX     (ushort: 12)
    cd_routex   DMRTEIDX     (ushort: 12)
    cw_on       DMUNS11      (ushort: 11)
    cw_off      DMUNS11      (ushort: 11)
    del1_thresh  DMUNS11      (ushort: 11)
    del2_thresh  DMUNS11      (ushort: 11)
    del3_thresh  DMUNS11      (ushort: 11)
    serv_tm     DMSTNUM      (ushort: 10)
    serv_obj    DMUNL10      (ulong: 10)
(d) cq_state    DMCQSTATE    (enum: 2)
    acdgrp      DMACDGRP     (ushort: 10)
    ifsstm1     DMIFSST      (struct)
        sup_tm      DMSTNUM      (ushort: 10)
        dotflw      DMDOTFLW     (ushort: 11)
    ifsstm2     DMIFSST      (struct)
        sup_tm      DMSTNUM      (ushort: 10)
        dotflw      DMDOTFLW     (ushort: 11)
    ifsstm3     DMIFSST      (struct)
        sup_tm      DMSTNUM      (ushort: 10)
        dotflw      DMDOTFLW     (ushort: 11)
    ifsstm4     DMIFSST      (struct)
        sup_tm      DMSTNUM      (ushort: 10)
        dotflw      DMDOTFLW     (ushort: 11)
    ifsstm5     DMIFSST      (struct)
```

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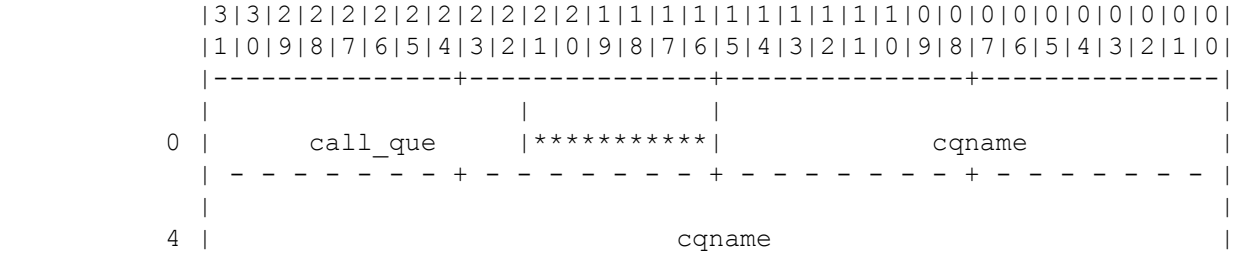
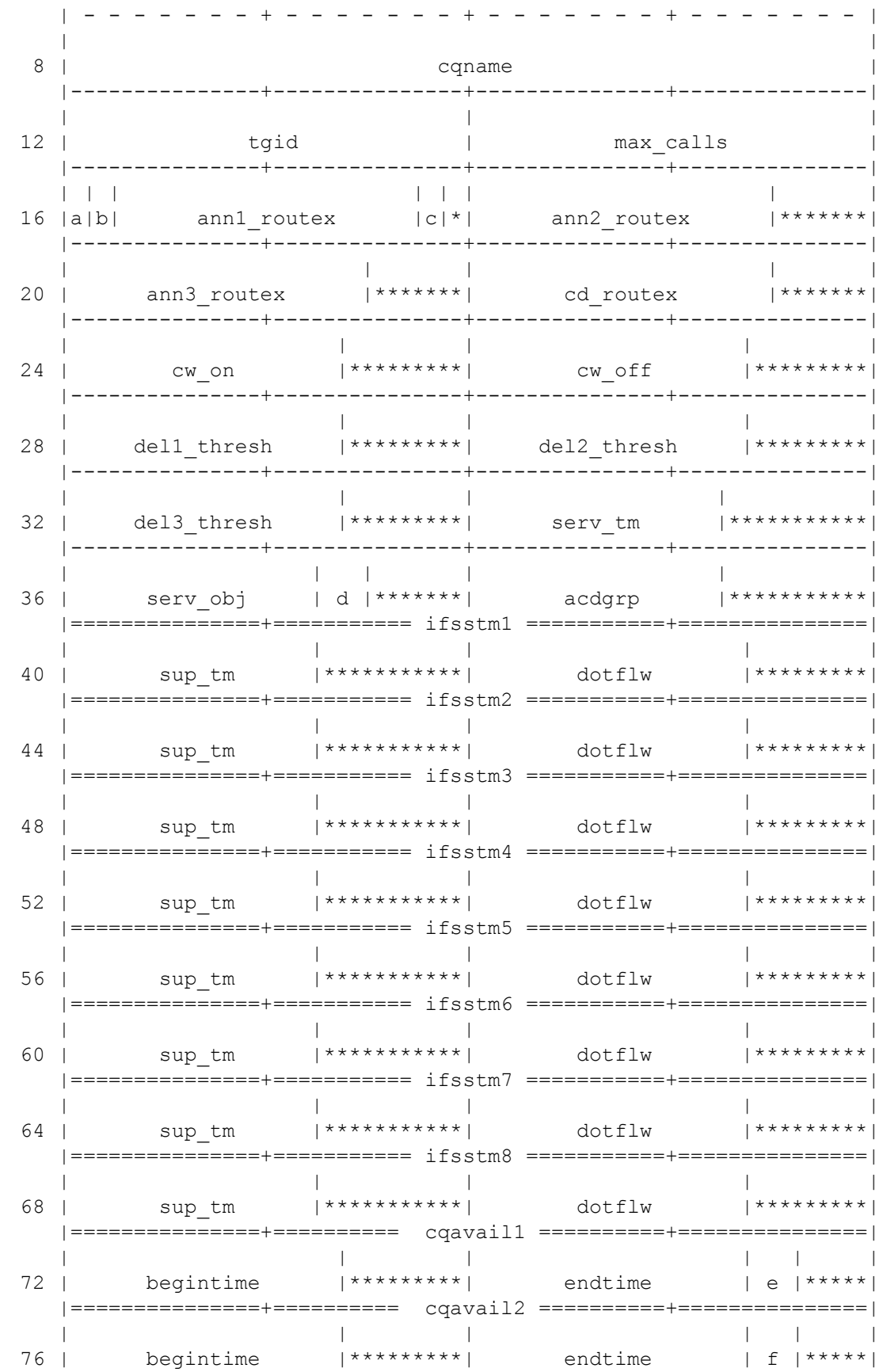
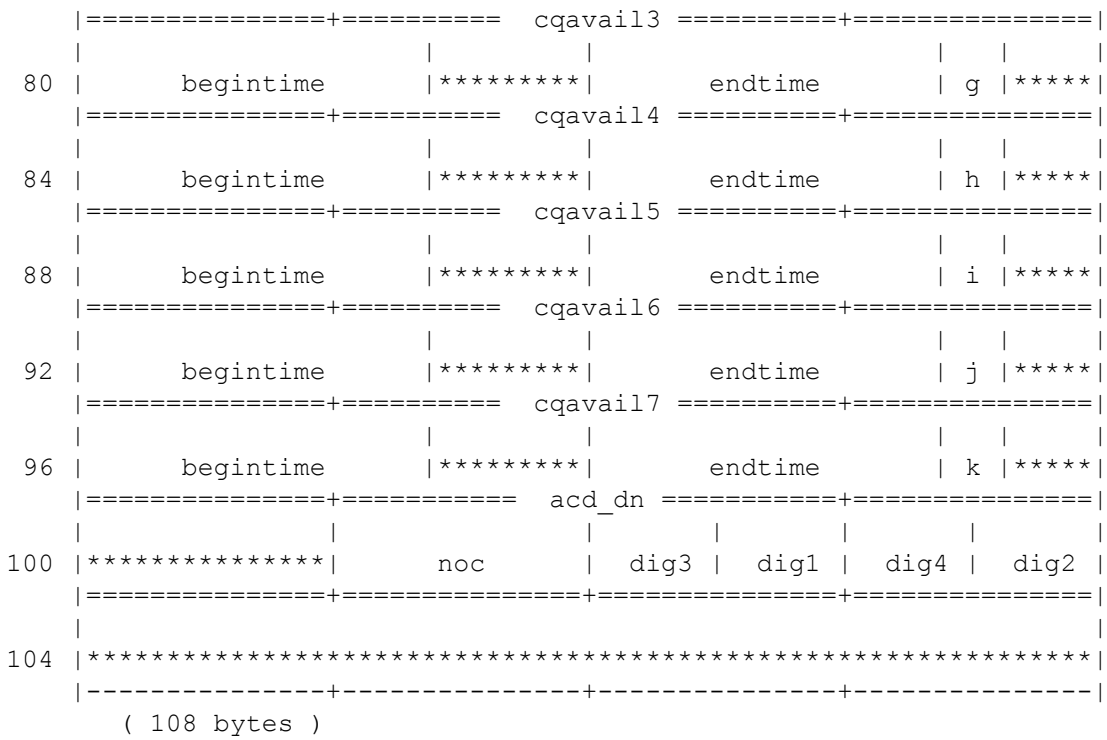
```
        sup_tm      DMSTNUM      (ushort: 10)
        dotflw      DMDOTFLW     (ushort: 11)
    ifsstm6     DMIFSST      (struct)
        sup_tm      DMSTNUM      (ushort: 10)
        dotflw      DMDOTFLW     (ushort: 11)
    ifsstm7     DMIFSST      (struct)
        sup_tm      DMSTNUM      (ushort: 10)
        dotflw      DMDOTFLW     (ushort: 11)
    ifsstm8     DMIFSST      (struct)
        sup_tm      DMSTNUM      (ushort: 10)
        dotflw      DMDOTFLW     (ushort: 11)
    cqavail1    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(e)     cqcond      DMCQCOND     (enum: 2)
    cqavail2    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(f)     cqcond      DMCQCOND     (enum: 2)
    cqavail3    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(g)     cqcond      DMCQCOND     (enum: 2)
    cqavail4    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(h)     cqcond      DMCQCOND     (enum: 2)
    cqavail5    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(i)     cqcond      DMCQCOND     (enum: 2)
    cqavail6    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(j)     cqcond      DMCQCOND     (enum: 2)
    cqavail7    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(k)     cqcond      DMCQCOND     (enum: 2)
    acd_dn      DMCLOCDN     (struct)     <--- compacted
        noc         DMNOC        (ushort: 8)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
```

Compacted Tuple Layout CQPARM




cqname
tgid
max_calls
a
b
ann1_routex
c
*
ann2_routex
ann3_routex
cd_routex
cw_on
cw_off
del1_thresh
del2_thresh
del3_thresh
serv_tm
serv_obj
d
acdgrp
ifsstm1
sup_tm
dotflw
ifsstm2
ifsstm3
ifsstm4
ifsstm5
ifsstm6
ifsstm7
ifsstm8
cqavail1
begintime
endtime
e
cqavail2
f




( 108 bytes )

| | | | |
|---|---|---|---|
| | call_que | DMCQNUM | (ushort: 10) <--- key |
| | cqname | DMCTXT10 | (array [ 10 ] of char ) |
| | tgid | DMUNS16 | (ushort) |
| | max_calls | DMCQDBNUM | (ushort) |
| (a) | que_busy | DMBOOL | (enum: 1) |
| (b) | dly_busy | DMBOOL | (enum: 1) |
| | ann1_routex | DMRTEIDX | (ushort: 12) |
| (c) | intra_alwd | DMBOOL | (enum: 1) |
| | ann2_routex | DMRTEIDX | (ushort: 12) |
| | ann3_routex | DMRTEIDX | (ushort: 12) |
| | cd_routex | DMRTEIDX | (ushort: 12) |
| | cw_on | DMUNS11 | (ushort: 11) |
| | cw_off | DMUNS11 | (ushort: 11) |
| | del1_thresh | DMUNS11 | (ushort: 11) |
| | del2_thresh | DMUNS11 | (ushort: 11) |
| | del3_thresh | DMUNS11 | (ushort: 11) |
| | serv_tm | DMSTNUM | (ushort: 10) |
| | serv_obj | DMUNL10 | (ulong: 10) |
| (d) | cq_state | DMCQSTATE | (enum: 2) |
| | acdgrp | DMACDGRP | (ushort: 10) |
| | ifsstm1 | DMIFSST | (struct) |
| | sup_tm | DMSTNUM | (ushort: 10) |
| | dotflw | DMDOTFLW | (ushort: 11) |
| | ifsstm2 | DMIFSST | (struct) |
| | sup_tm | DMSTNUM | (ushort: 10) |
| | dotflw | DMDOTFLW | (ushort: 11) |
| | ifsstm3 | DMIFSST | (struct) |
| | sup_tm | DMSTNUM | (ushort: 10) |
| | dotflw | DMDOTFLW | (ushort: 11) |
| | ifsstm4 | DMIFSST | (struct) |
| | sup_tm | DMSTNUM | (ushort: 10) |

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```
        dotflw      DMDOTFLW     (ushort: 11)
    ifsstm5     DMIFSST      (struct)
        sup_tm      DMSTNUM      (ushort: 10)
        dotflw      DMDOTFLW     (ushort: 11)
    ifsstm6     DMIFSST      (struct)
        sup_tm      DMSTNUM      (ushort: 10)
        dotflw      DMDOTFLW     (ushort: 11)
    ifsstm7     DMIFSST      (struct)
        sup_tm      DMSTNUM      (ushort: 10)
        dotflw      DMDOTFLW     (ushort: 11)
    ifsstm8     DMIFSST      (struct)
        sup_tm      DMSTNUM      (ushort: 10)
        dotflw      DMDOTFLW     (ushort: 11)
    cqavail1    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(e)     cqcond      DMCQCOND     (enum: 2)
    cqavail2    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(f)     cqcond      DMCQCOND     (enum: 2)
    cqavail3    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(g)     cqcond      DMCQCOND     (enum: 2)
    cqavail4    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(h)     cqcond      DMCQCOND     (enum: 2)
    cqavail5    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(i)     cqcond      DMCQCOND     (enum: 2)
    cqavail6    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(j)     cqcond      DMCQCOND     (enum: 2)
    cqavail7    DMCQAVAIL    (struct)
        begintime   DMCQTIME     (ushort: 11)
        endtime     DMCQTIME     (ushort: 11)
(k)     cqcond      DMCQCOND     (enum: 2)
    acd_dn      DMCLOCDN     (struct)     <--- compacted
        noc         DMNOC        (ushort: 8)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
          Stored Tuple Layout   CQPARM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                   |           |                               |
 0 |      call_que     |***********|             cqname             |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
```

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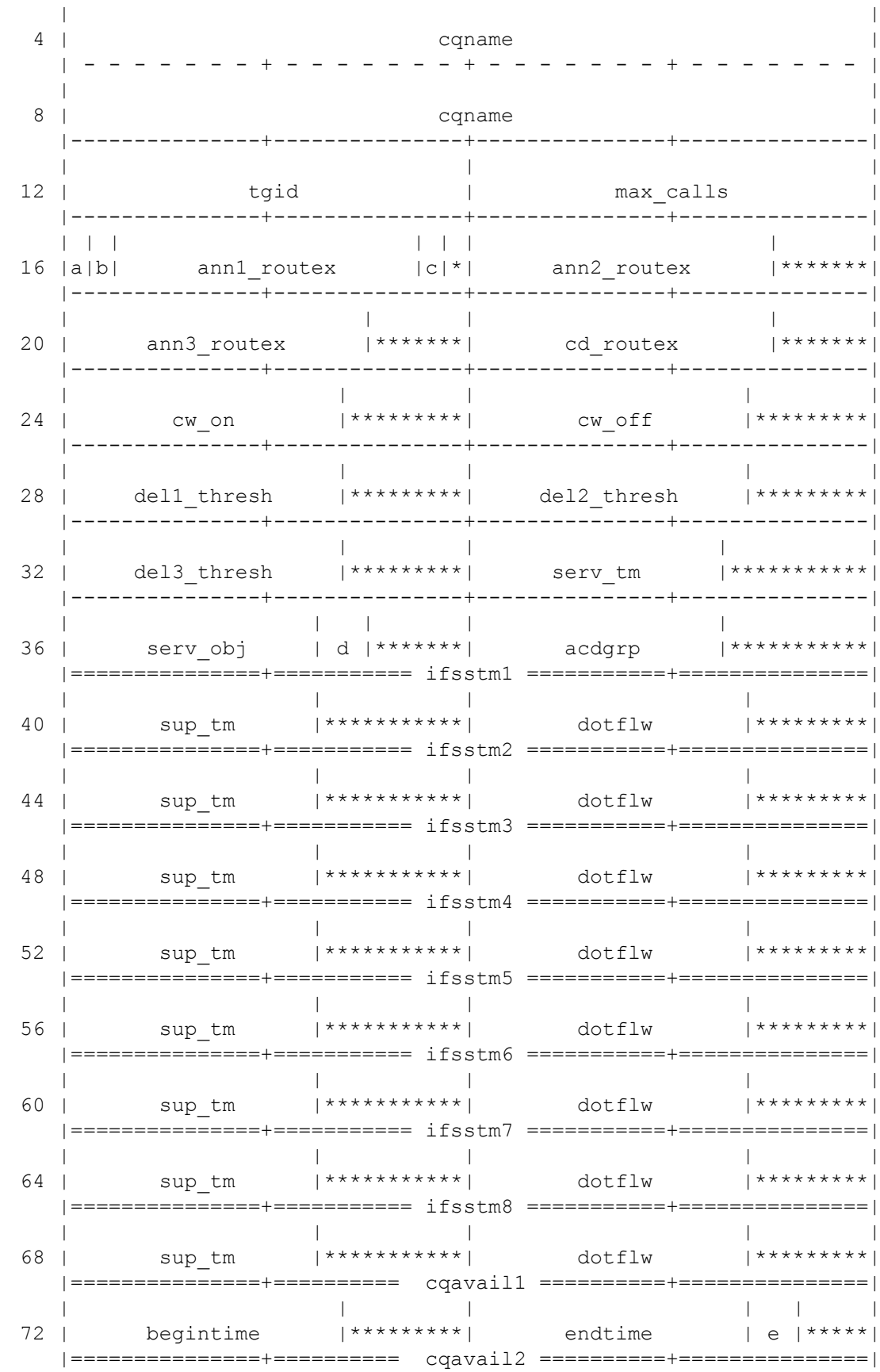


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```
    |                     |         |                     |   |      |
 76 |      begintime      |*********|       endtime       | f |*****|
    |=====================+=========  cqavail3 ==========+===============|
    |                     |         |                     |   |      |
 80 |      begintime      |*********|       endtime       | g |*****|
    |=====================+=========  cqavail4 ==========+===============|
    |                     |         |                     |   |      |
 84 |      begintime      |*********|       endtime       | h |*****|
    |=====================+=========  cqavail5 ==========+===============|
    |                     |         |                     |   |      |
 88 |      begintime      |*********|       endtime       | i |*****|
    |=====================+=========  cqavail6 ==========+===============|
    |                     |         |                     |   |      |
 92 |      begintime      |*********|       endtime       | j |*****|
    |=====================+=========  cqavail7 ==========+===============|
    |                     |         |                     |   |      |
 96 |      begintime      |*********|       endtime       | k |*****|
    |=====================+==========  acd_dn ===========+===============|
    |                     |                |       |       |       |
100 |*********************|      noc       |  dig3 |  dig1 |  dig4 |  dig2 |
    |=====================+================+=======+=======+=======+=======|
       ( 104 bytes )
domain alCQPARM   struct  (23 sub-attributes)
           call_que    .25.fake     (ushort: 10)
           cqname      .26.fake     (array [ 10 ] of char )
           tgid        unsigned short (ushort)
           max_calls   unsigned short (ushort)
   (a)     que_busy    .0fake       (enum)
   (b)     dly_busy    .0fake       (enum)
           ann1_routex  .27.fake     (ushort: 14)
   (c)     intra_alwd  .0fake       (enum)
           ann2_routex  .28.fake     (ushort: 14)
           ann3_routex  .29.fake     (ushort: 14)
           cd_routex   .30.fake     (ushort: 14)
           cw_on       .31.fake     (ushort: 11)
           cw_off      .32.fake     (ushort: 11)
           del1_thresh  .33.fake     (ushort: 11)
           del2_thresh  .34.fake     (ushort: 11)
           del3_thresh  .35.fake     (ushort: 11)
           serv_tm     .36.fake     (ushort: 10)
           serv_obj    .37.fake     (ulong: 10)
   (d)     cq_state    .3fake       (enum)
           acdgrp      .38.fake     (ushort: 10)
           ifsstm      .39.fake     (array [ 8 ] of .4fake )
               sup_tm      .2.fake      (ushort: 10)
               dotflw      .3.fake      (ushort: 11)
           cqavail     .40.fake     (array [ 7 ] of .2fake )
               begintime   .0.fake      (ushort: 11)
               endtime     .1.fake      (ushort: 11)
   (e)         cqcond      .1fake       (enum)
           acd_dn      .6fake       (struct)
               noc         .9.fake      (ushort: 14)
               digits      .10.fake     (array [ 4 ] of char )
```

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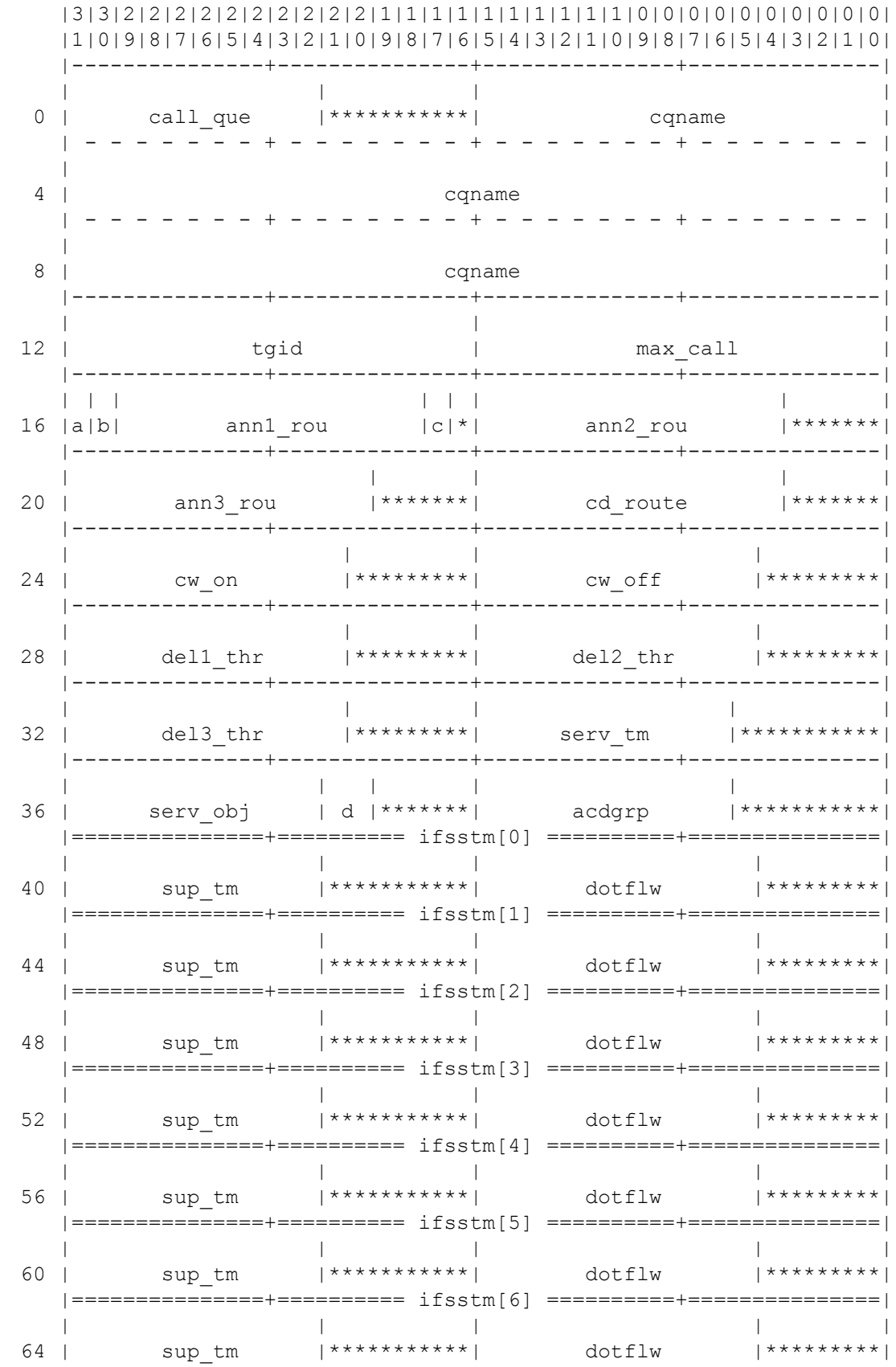
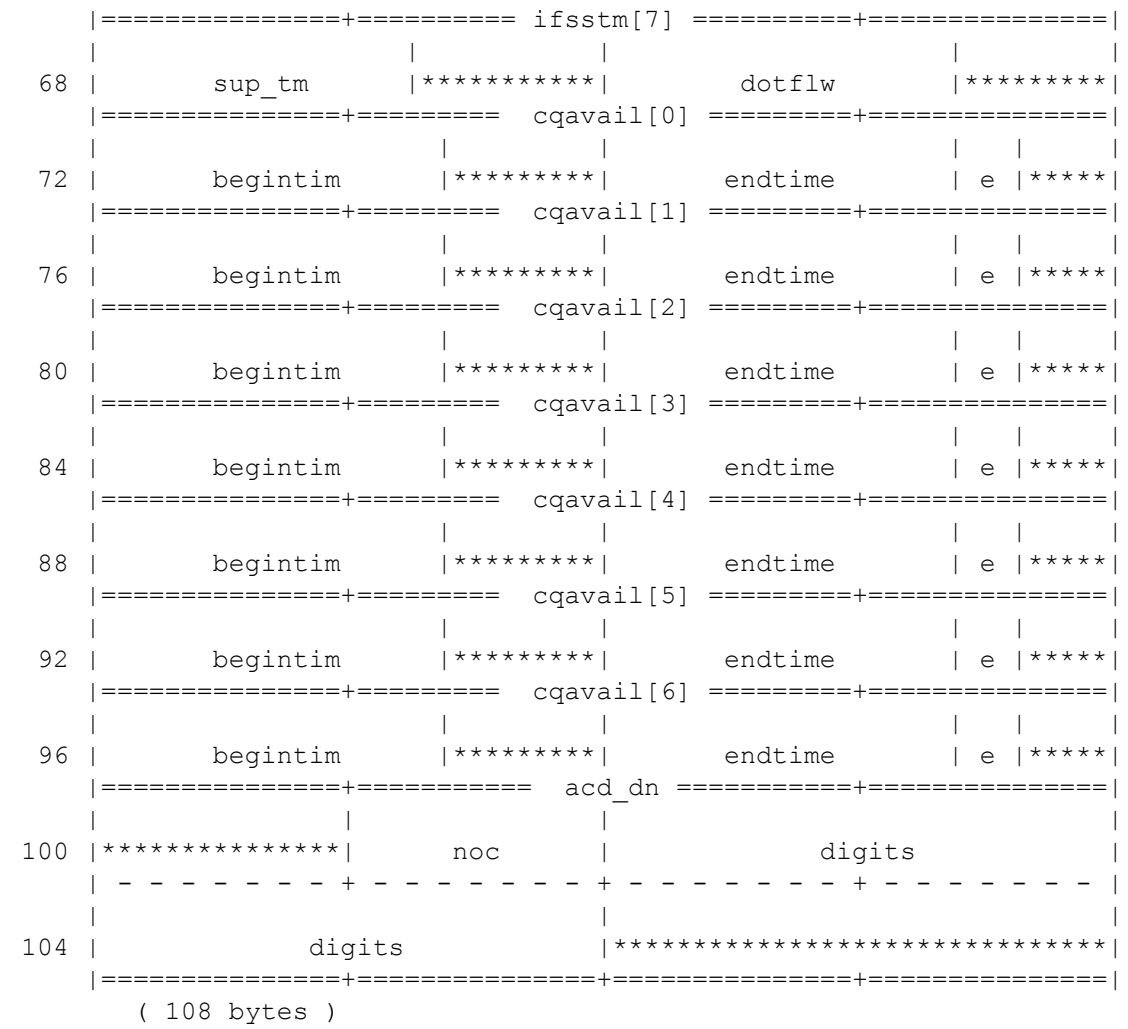
Structure Layout alCQPARM






( 108 bytes )

## 4. Population Rules for RLcqparm

**Relation Description** Call queue parameter definition
Static relation containing call queue parameter definitions.

Intraflow background information: The supporting teams are searched in order until either the call's queue delay does not exceed a delay outflow threshold, the call checks all its supporting teams without success, or the call is assigned to a serving team.

For example:

---

Assume the following when a call arrives for call queue 1:

(1) Call queue one has principle team (serv_tm) two and supporting serving teams (ifsstm1.sup_tm and ifsstm2.sup_tm) 3 and 4, with delay outflow thresholds (ifsstm1.dotflw and ifsstm2.dotflw) 5 and 15, respectively,

```
that is,   ifsstm1.sup_tm = 3   ifsstm1.dotflw = 5
           ifsstm2.sup_tm = 4   ifsstm2.dotflw = 15
```

(2) Call queue one has two calls on queue and there are no available servers on principle team two (serv_tm),

(3) The call at the head of call queue one has waited 17 seconds,

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(4) 4. Serving team three's threshold is 50% (mxpcntsup = 50 from RLstparm. mxpcntsup has no population dependencies with sup_tm or dotflw), it has four agents logged in, two are busy with calls from supporting serving teams,

(5) Serving team four's team threshold is 75% (mxpcntsup = 75), it has ten agents logged in, one is busy with a call from a supporting queue. The new call is queued because other calls are already queued. The automatic call distributor (ACD) checks the call at the head of the queue and finds that it has waited longer than the delay outflow threshold (ifsstm1.dotflw) for the first supporting serving team (ifsstm1.sup_tm), team three. The call cannot be intraflowed to team three, however, because doing so would cause more than 50% of the agents on the serving team to be handling calls from supporting queues simultaneously. So, the ACD checks the next supporting team (ifsstm2.sup_tm). The call has also waited longer than the delay outflow threshold (ifsstm2.dotflw) for its second supporting team (ifsstm2.sup_tm), team four. The call will be intraflowed to team four because team four will still have only 20% of its agents handling calls from its supporting queues, much less than its team threshold of 75%.

**Attribute: call_que**

**Fullname:** Call queue

**Attribute Description** The number of the call queue.

**Attribute: cqname**

**Fullname:** The name of the call queue

**Attribute Description** The alphanumeric characters ([0-9],[A-Z],[a-z]) and blanks are used.

**Attribute: max_calls**

**Fullname:** Maximum number of calls allowed to queue on a call queue

**Attribute Description** The max_calls field may range from 0 to the number of tuples allowed in RLcllqdb.

**Attribute: cw_on**

**Fullname:** Call waiting display at position

**Attribute Description** This value represents the seconds of expected delay at which the call waiting display will be lit at positions serving this call queue.

**Attribute: cw_off Fullname:** Call waiting display darkened delay at positions

**Attribute Description** This value represents the seconds of expected delay at which the calls waiting display will be darkened at positions serving this call queue.

**Attribute: del1_thresh**

**Fullname:** First level of delay announcement threshold in seconds.

**Attribute Description** This attribute contains a threshold of the number of seconds of delay before the first announcement is played. Note: 0 is used to force the first announcement.

**Attribute: del2_thresh**

**Fullname:** Second level of delay announcement threshold in seconds

**Attribute Description** This attribute contains a threshold of the number of seconds of delay before the second announcement is played.

**Attribute: del3_thresh**

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**Fullname:** Third level of delay announcement threshold in seconds

**Attribute Description** This attribute contains a threshold of the number of seconds of delay before the third announcement is played.

**Attribute: ann1_routex**

**Fullname:** Route index for first delay announcement

**Attribute Description** Must appear in RLrt_routing and must point to an announcement.

**Attribute: ann2_routex**

**Fullname:** Route index for second delay announcement

**Attribute Description** Must appear in RLrt_routing and must point to an announcement.

**Attribute: ann3_routex**

**Fullname:** Route index for third delay announcement

**Attribute Description** Must appear in RLrt_routing and may point to either an announcement or an outgoing trunk group.

**Attribute: serv_obj**

**Fullname:** Service delay objective for this call queue

**Attribute Description** This is the average delay in tenths of seconds that calls of this type should expect before reaching a server.

**Attribute: serv_tm**

**Fullname:** Number of the principle serving team serving this call queue

**Attribute Description** If serv_tm is non-zero, a tuple keyed by this value must appear in RLstparm. RLcqparm.serv_tm is the principle serving team. The first team in a queue's list is called the principle team, while all other teams are the supporting teams.

**Attribute: acdgrp**

**Fullname:** ACD/BRCS group number identifier

**Attribute Description** This attribute uniquely identifies a "sub-terminal group" group to allow customers (or end-users) to divide their call centers into smaller groups. This will allow different groups to exist within the same ACD customer with the same level of security that exists between different ACD customers.

When this attribute has a value of 1000, there are no restrictions on this call queue within its terminal group ID. RC and ODA does not currently support this "wild card" value.

This value is inherited from the principle serving team assigned to serve the call queue.

See also RLstparm.acdgrp.

**Attribute: cqavail1**

**Fullname:** Call Queue availability 1

**Attribute Description** This attribute indicates the availability of the call queue on day 1 of the week (Sunday).

It consists of a structure containing the time delimiters ( begintime and endtime ) and the condition

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of the call queue. The call queue condition can be either closed or open. The begintime and endtime delimiters define the times of the day (in minutes) when a queue is either closed or open.

**Attribute: cqavail2**

**Fullname:** Call Queue availability 2

**Attribute Description** This attribute indicates the availability of the call queue on day 2 of the week (Monday). See cqavail1.

**Attribute: cqavail3**

**Fullname:** Call Queue availability 3

**Attribute Description** This attribute indicates the availability of the call queue on day 3 of the week (Tuesday). See cqavail1.

**Attribute: cqavail4**

**Fullname:** Call Queue availability 4

**Attribute Description** This attribute indicates the availability of the call queue on day 4 of the week (Wednesday). See cqavail1.

**Attribute: cqavail5**

**Fullname:** Call Queue availability 5

**Attribute Description** This attribute indicates the availability of the call queue on day 5 of the week (Thursday). See cqavail1.

**Attribute: cqavail6**

**Fullname:** Call Queue availability 6

**Attribute Description** This attribute indicates the availability of the call queue on day 6 of the week (Friday). See cqavail1.

**Attribute: cqavail7**

**Fullname:** Call Queue availability 7

**Attribute Description** This attribute indicates the availability of the call queue on day 7 of the week (Saturday). See cqavail1.

**Attribute: cd_routex**

**Fullname:** Route index of closed down announcement

**Attribute Description** This route index may be a route index in RLrt_routing that points to an announcement or an outgoing trunk group. Calls of this call queue are routed to this announcement when cq_state == CD_CLOSED or when cq_state == CD_TOD and cqavail[1-7] indicates the queue is closed.

**Attribute: que_busy**

**Fullname:** Call queue busy

**Attribute Description** Indicates if busy tone should be given, instead of announcement/re-order, when a call is routed to the specified call queue and there are no queue slots available for that queue.

**Attribute: dly_busy**

**Fullname:** Delay thresholds busy

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**Attribute Description** Indicates if busy tone should be given, instead of announcement/re-order, when the "del3_thresh" threshold for the specified call queue has been exceeded.

**Attribute: cq_state**

**Fullname:** Call Queue state

**Attribute Description** Availability of this call queue:

CD_OPEN - - call queue is available

CD_CLOSED - - call queue is not available

CD_TOD - - call queue availability depends upon the time of day. See cqavail[] attribute.

**Attribute: intra_alwd**

**Fullname:** Indicates whether intraflow is allowed

**Attribute Description** Indicates if intraflow is allowed for this call queue. For intra_alwd = DBYES, a call queue must have at least one supporting serving team (ifsstm[1-8].sup_tm) defined. Otherwise, if there are no supporting serving teams (ifsstm[1-8].sup_tm) RLcqparm.intra_alwd = DBNO.

See rc-oda-rules section for warning.

**Attribute: ifsstm1.sup_tm**

**Fullname:** Intraflow Supporting Serving Team one

**Attribute Description** Indicates supporting team one for intraflow. A call queue may have zero to eight supporting serving teams.

The supporting serving team(s) in ifsstm[1-8].sup_tm can be repeated for other call queues.

**Attribute: ifsstm1.dotflw**

**Fullname:** Delay outflow threshold for intraflow supporting serving team one

**Attribute Description** Indicates the intraflow delay outflow threshold in seconds for supporting team one (ifsstm1.sup_tm).

**Attribute: ifsstm2.sup_tm**

**Fullname:** Intraflow Supporting Serving Team two

**Attribute Description** Indicates supporting team two for intraflow. A call queue may have zero to eight supporting serving teams.

**Attribute: ifsstm2.dotflw Fullname:** Delay outflow threshold for intraflow supporting serving team two

**Attribute Description** Indicates the intraflow delay outflow threshold in seconds for supporting team two (ifsstm2.sup_tm).

**Attribute: ifsstm3.sup_tm**

**Fullname:** Intraflow Supporting Serving Team three

**Attribute Description** Indicates supporting team three for intraflow. A call queue may have zero to eight supporting serving teams.

**Attribute: ifsstm3.dotflw**

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**Fullname:** Delay outflow threshold for intraflow supporting serving team three

**Attribute Description** Indicates the intraflow delay outflow threshold in seconds for supporting team three (ifsstm3.sup_tm).

**Attribute: ifsstm4.sup_tm**

**Fullname:** Intraflow Supporting Serving Team four

**Attribute Description** Indicates supporting team four for intraflow. A call queue may have zero to eight supporting serving teams.

**Attribute: ifsstm4.dotflw**

**Fullname:** Delay outflow threshold for intraflow supporting serving team four

**Attribute Description** Indicates the intraflow delay outflow threshold in seconds for supporting team four (ifsstm4.sup_tm).

**Attribute: ifsstm5.sup_tm**

**Fullname:** Intraflow Supporting Serving Team five

**Attribute Description** Indicates supporting team five for intraflow. A call queue may have zero to eight supporting serving teams.

**Attribute: ifsstm5.dotflw**

**Fullname:** Delay outflow threshold for intraflow supporting serving team five

**Attribute Description** Indicates the intraflow delay outflow threshold in seconds for supporting team five (ifsstm5.sup_tm).

**Attribute: ifsstm6.sup_tm**

**Fullname:** Intraflow Supporting Serving Team six

**Attribute Description** Indicates supporting team six for intraflow. A call queue may have zero to eight supporting serving teams.

**Attribute: ifsstm6.dotflw**

**Fullname:** Delay outflow threshold for intraflow supporting serving team six

**Attribute Description** Indicates the intraflow delay outflow threshold in seconds for supporting team six (ifsstm6.sup_tm).

**Attribute: ifsstm7.sup_tm**

**Fullname:** Intraflow Supporting Serving Team seven

**Attribute Description** Indicates supporting team seven for intraflow. A call queue may have zero to eight supporting serving teams.

**Attribute: ifsstm7.dotflw**

**Fullname:** Delay outflow threshold for intraflow supporting serving team seven

**Attribute Description** Indicates the intraflow delay outflow threshold in seconds for supporting team seven (ifsstm7.sup_tm).

**Attribute: ifsstm8.sup_tm**

**Fullname:** Intraflow Supporting Serving Team eight

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**Attribute Description** Indicates supporting team eight for intraflow. A call queue may have zero to eight supporting serving teams.

**Attribute: ifsstm8.dotflw**

**Fullname:** Delay outflow threshold for intraflow supporting serving team eight

**Attribute Description** Indicates the intraflow delay outflow threshold in seconds for supporting team eight (ifsstm8.sup_tm).

**Attribute: acd_dn**

**Fullname:** Automatic call distributor directory number

**Attribute Description** This attribute consists of a normalized office code (NOC) and four directory number digits. If RLcqparm.acd_dn is non-null (that is, RLcqparm.acd_dn.noc is not zero) then there must exist a corresponding tuple in RLacd_dn for an ACD DN, or RLdaa_dn for a direct agent access (DAA) DN, or RLdaa_dn for an ACD DN on Interflow.

This directory number is used for queue-dialed calls.

**Attribute: acd_dn.noc**

**Fullname:** Normalized office code

**Attribute Description** See acd_dn.

**Attribute: acd_dn.digits**

**Fullname:** Four directory number digits

**Attribute Description** See acd_dn.

**Attribute: tgid**

**Fullname:** Terminal group identifier

**Attribute Description** The attribute tgid is used to associate a call_que (that is, queue number) with an ACD/BRCS customer. See also RLstparm.tgid.

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# CRD_ATTR

## 1. Description

This relation is used to group a set of card attributes together so that particular group of attributes can be associated with a particular card or cards that is identified via the Card Identification Tables.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 64 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
CRD_ATTR    relid = 1473  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     qtimeout    DMUNS8       (ushort: 8)
     oaff1       DMUNS7       (ushort: 7)
 (a) tc_alw      DMBOOL       (enum: 1)
     crd_attr    DMCRDATR     (ushort: 6) <--- key
 (b) ind_alw     DMBOOL       (enum: 1)
 (c) p891        DMBOOL       (enum: 1)
     qsigtyp     DMQSIGTYP    (enum: 4)
 (d) cc_type     DMCCTYPE     (enum: 3)
 (e) allow900    DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout   CRD_ATTR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |             | |           | | |       |     | |
  0 |    qtimeout   |    oaff1    |a|  crd_attr |b|c|qsigtyp|  d  |e|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population rules for RLcrd_attr

**Relation Description**

TCR (Telephone Credit Card) Card Attribute Table
This relation is used to group a set of card attributes together so that particular group of attributes can be associated with a particular card or cards that are identified via the Card Identification Tables.
This relation is populated for domestic generics only.
ENGINEERING INFORMATION:
Maximum number of tuples for this relation is 64.
Average number of tuples for this relation is 25.

**Attribute:**

crd_attr

**Fullname:**

Card Attribute Table key

**Attribute Description:**

This is the key into the RLcrd_attr relation. The crd_attr value is received from in the RLtcr_f[2 - 7]dv relations. It is used as an

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index to determine information on a particular card.

**Attribute:**
tc_alw
**Fullname:**
Time and Charges Allow Flag
**Attribute Description:**
Time and Charges Allow Flag. This attribute determines whether a request for T&C will be honored for a call.

**Attribute:**
cc_type
**Fullname:**
Calling card type
**Attribute Description:**
Identifies the TCR calling card type.
The valid entries are:
CAS:Card that uses CAS(Customer Account Services) signaling,
TEL: Non-AT&T Telecommunication card,
CCC: Commercial Credit Card.

**Attribute:**
ind_alw
**Fullname:**
Indeterminate Allow Flag
**Attribute Description:**
Indeterminate Allow Flag. Indicates whether the calling card should be allowed or denied in the event an indeterminate query response occurs.

**Attribute:**
p891
**Fullname:**
Pre-Pend 891
**Attribute Description:**
Flag indicating whether to prepend 891 to the card number before the query is sent. Used for abbreviated card formats.

**Attribute:**
qsigtyp
**Fullname:**
Query Signaling Type
**Attribute Description:**
Query Signaling Type enumeration used to validate a calling card.

**Attribute:**
qtimeout
**Fullname:**
Query Timeout Parameter
**Attribute Description:**
Query Timeout Parameter. This value represents (in tenths of a second) how long call processing code will wait for a query reply from the network before

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timing out.

**Attribute:**
allow900
**Fullname:**
Allow 900
**Attribute Description:**
Flag indicating whether calls to OSPS 900 services are allowed for this card when the OSPS 900 feature is active.

**Attribute:**
oaff1
**Fullname:**
Spare field 1
**Attribute Description:**
Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

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# CRDOWN

## 1. Description

Holds company requirements data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | AMA |
| relation type | DBSTATIC |

## 3. Field Layout

```
CRDOWN      relid = 2048  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    AMA
     companyid   DMUNS11      (ushort: 11)     <--- key
 (a) treat_type  DMUNS5       (ushort: 5)
     company_name  DMCHAR7      (array [ 7 ] of char )
     spare1      DMCHAR       (char)
     spare2      DMCHAR       (char)
     qtimeout    DMUNS8       (ushort: 8)
     spare3      DMULONG      (ulong)
     spare4      DMULONG      (ulong)
         User, Compacted and Stored Tuple Layout CRDOWN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |         |                               |
  0 |      companyid        |    a    |          company_name         |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                 |
  4 |                           company_name                          |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                 |                 |                 |                 |
  8 |  company_name   |     spare1      |     spare2      |    qtimeout     |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 12 |                              spare3                             |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 16 |                              spare4                             |
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population Rules for RLcrdown

**Relation Description** Company requirements data. This relation holds information about local exchange carrier (LEC) companies.

**Attribute: companyid**

**Fullname:** Company identifier

**Attribute Description** The company identifier.

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**Attribute: treat_type**

**Fullname:** Treatment type
**Attribute Description** Key into RLlectreat to retrieve the treatment table which applies to this company.

**Attribute: qtimeout**

**Fullname:** Query timeout parameter
**Attribute Description** This value represents (in tenths of a second) how long call processing code will wait for a query reply from the network before timing out.

**Attribute: spare1**

**Fullname:** Spare field 1
**Attribute Description** Spare field for future development.

**Attribute: company_name**

**Fullname:** Company name
**Attribute Description** This is the name of the owner of the company.

**Attribute: spare2**

**Fullname:** Spare field 2
**Attribute Description** This is a spare field to be used in future development.

**Attribute: spare3**

**Fullname:** Spare field 3
**Attribute Description** This is a spare field to be used in future development.

**Attribute: spare4**

**Fullname:** Spare field 4
**Attribute Description** This is a spare field to be used in future development.

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# CRDPRD

## 1. Description

Card product information This relation is to have a distribution of FG (fixed group), with a grp_type of GPD_OSPS and a grp_id of 4.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| expected number of tuples | 150 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
CRDPRD      relid = 2573  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     custannchdr  DMANNC_ID    (ulong: 17)
     oaff3       DMUNS7       (ushort: 7)
     oaff4       DMCHAR       (char)
     warnannchdr  DMANNC_ID    (ulong: 17)
     oaff1       DMUNS7       (ushort: 7)
     label       DMCHAR6      (array [ 6 ] of char )
     oaff2       DMCHAR       (char)
     oaff9       DMUSHORT     (ushort)
     crdprdtype  DMUNS8       (ushort: 8)     <--- key
 (a) crdrstr     DMCRDRSTR    (enum: 3)
 (b) anncmonbal  DMBOOL       (enum: 1)
 (c) annctimebal  DMBOOL       (enum: 1)
 (d) recbilling  DMBOOL       (enum: 1)
 (e) prepaid     DMBOOL       (enum: 1)
 (f) oaff5       DMBOOL       (enum: 1)
 (g) oaff6       DMBOOL       (enum: 1)
 (h) oaff7       DMBOOL       (enum: 1)
 (i) oaff8       DMBOOL       (enum: 1)
 (j) addoncardtrmt  DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout CRDPRD
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |               |               |
 0 |           custannchdr         |    oaff3      |     oaff4     |
   |---------------+---------------+---------------+---------------|
   |                               |               |               |
 4 |           warnannchdr         |    oaff1      |     label     |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 8 |                           label                               |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |               |               |                               |
12 |     label     |     oaff2     |            oaff9              |
   |---------------+---------------+---------------+---------------|
   |               |     | | | | | | | | |                       |
16 |   crdprdtype  |  a  |b|c|d|e|f|g|h|i|j|***********************|
```

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```
|---------------+---------------+---------------+---------------|
   ( 20 bytes )
```

## 4. Population rules for RLcrdprd

### Relation Description

RLcrdprd
RLcrdprd is for the card product type data for the PLBQ Business/Residence card feature

**Attribute:**
crdprdtype
**Fullname:**
Card product type.
**Attribute Description:**
Card product type by number 0 thru 255.

**Attribute:**
custannchdr
**Fullname:**
Custom announcement header ID.
**Attribute Description:**
Header ID where a customized announcement has been created.
Limited to header IDs 241 to 270 when populated.

**Attribute:**
oaff1
**Fullname:**
7-bit spare.
**Attribute Description:**
Unused.

**Attribute:**
oaff2
**Fullname:**
char spare.
**Attribute Description:**
Unused.

**Attribute:**
warnannchdr
**Fullname:**
Warning announcement header ID.
**Attribute Description:**
Header ID where a customized warning announcement has been created.
Limited to header IDs 271 to 300 when populated.

**Attribute:**
oaff3
**Fullname:**
7-bit spare.
**Attribute Description:**
Unused.

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**Attribute:**
oaff4
**Fullname:**
char spare.
**Attribute Description:**
Unused.

**Attribute:**
anncmonbal
**Fullname:**
Announce monetary balance indicator.
**Attribute Description:**
Determines whether or not the monetary balance should be given.

**Attribute:**
annctimebal
**Fullname:**
Announce time balance indicator.
**Attribute Description:**
Determines whether or not the time balance should be given.

**Attribute:**
recbilling
**Fullname:**
Record billing indicator.
**Attribute Description:**
Determines whether billing should be recorded.

**Attribute:**
prepaid
**Fullname:**
Pre-paid card indicator.
**Attribute Description:**
Indicates whether cards of this card type are pre-paid.

**Attribute:**
crdrstr
**Fullname:**
Card restriction handling.
**Attribute Description:**
Indicates the restriction handling for cards in this product chart.

**Attribute:**
oaff5
**Fullname:**
boolean spare.
**Attribute Description:**
Unused.

**Attribute:**
oaff6
**Fullname:**

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boolean spare.

**Attribute Description:**

Unused.

**Attribute:**

oaff7

**Fullname:**

boolean spare.

**Attribute Description:**

Unused.

**Attribute:**

oaff8

**Fullname:**

boolean spare.

**Attribute Description:**

Unused.

**Attribute:**

label

**Fullname:**

spare of chars.

**Attribute Description:**

created for future SU features.

**Attribute:**

oaff9

**Fullname:**

short spare.

**Attribute Description:**

Unused.

**Attribute:**

addoncardtrmt

**Fullname:**

Add-On card treatment eligibility indicator

**Attribute Description:**

This attribute specifies whether the card product type is eligible for add-on card treatment.

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# CRI_CRN

## 1. Description

Carrier identification (numerical) to carrier name (alphabetic) mapping.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 75 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
CRI_CRN     relid = 377   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     carr_id     DMBCARID     (ushort: 14)     <--- key
 (a) featgrp     DMFEATGRP    (enum: 2)     <--- key
     ospsff      DMUNS12      (ushort: 12)
     carr_name   DMCTXT7      (array [ 7 ] of char )
         User, Compacted and Stored Tuple Layout    CRI_CRN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                             |   |                       |       |
  0 |          carr_id            | a |         ospsff        |*******|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             carr_name                         |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                 |             |
  8 |                   carr_name                     |*************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLcri_crn

**Relation Description** Carrier identification to carrier name
Carrier identification (numerical) to carrier name (alphabetic) mapping.

**Attribute: carr_id**

**Fullname:** carrier identification

**Attribute Description** Carrier identification (numerical).

**Attribute: featgrp**

**Fullname:** Feature Group carrier type

**Attribute Description** Indicates which feature group this carrier belongs to.

**Attribute: carr_name**

**Fullname:** carrier name

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**Attribute Description** Carrier name (AT&T, MCI, SPRINT, etc.). Characters must be ALPHA. The special characters '&' and ',' may is not the 1st character.

**Attribute: ospsff**

**Fullname:** OSPS fast feature

**Attribute Description** The item is to be used for future OSPS fast feature development.

defines: "db/DMcarrid.h",
"db/DMcarr_val.h"

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# CRN_CRI

## 1. Description

Carrier name (alphabetic) to carrier identification (numerical) mapping.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 75 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
CRN_CRI     relid = 378   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     carr_id     DMBCARID     (ushort: 14)
 (a) featgrp     DMFEATGRP    (enum: 2)     <--- key
     carr_name   DMCTXT7      (array [ 7 ] of char )     <--- key
         User, Compacted and Stored Tuple Layout    CRN_CRI
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                             |   |                               |
  0 |          carr_id            | a |           carr_name           |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                 |
  4 |                             carr_name                           |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                 |                                               |
  8 |   carr_name     |***********************************************|
    |-----------------+-----------------+-----------------+-----------------|
       ( 12 bytes )
```

## 4. Population Rules for RLcrn_cri

**Relation Description** Carrier name to carrier id
Carrier name to carrier id (numerical). This relation is populated whenever tuples in RLcri_crn are populated. RLcri_crn.carr_name becomes a key in this relation and RLcri_crn.carr_id becomes an attribute.

**Attribute: carr_name**

**Fullname:** carrier name

**Attribute Description** Carrier name (AT&T, MCI, SPRINT, etc.).

**Attribute: featgrp**

**Fullname:** Feature Group carrier type

**Attribute Description** Indicates which feature group this carrier belongs to.

**Attribute: carr_id**

**Fullname:** carrier id

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**Attribute Description** Carrier identification (numerical). The rules for this attribute are governed by the rules for RLcri_crn.carr_id.

**Defines:** "db/DMcarr_val.h"

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# CSR_ATTR

## 1. Description

This relation (carrier specific routing attribute) is used to provide information on international calls where the calling card issuer has carrier specific routing (CSR) agreement with the OSPS owner. The information provided is the card vendors country code as defined by the ITU-TS, administration id and CSR preference (preferred or mandatory).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
CSR_ATTR    relid = 1764  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     card_vcc    DMTCSCC      (ushort: 10)
     oaff1       DMUNS4       (ushort: 4)
 (a) csr_pref    DMCSR_PREF   (enum: 2)
     csr_attr_id  DMUNS8       (ushort: 8)     <--- key
     admin_id    DMUNS7       (ushort: 7)
 (b) oaff2       DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout   CSR_ATTR
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |       |   |               |               | |
  0 |      card_vcc     | oaff1 | a |  csr_attr_id  |   admin_id    |b|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLcsr_attr

**Relation Description** Carrier specific routing (CSR) attribute table.
This relation (carrier specific routing attribute table) is used to provide information about international credit cards. The information provided is the card vendors country code as defined by the international telegraph and union - telecommunication standardization sector (ITU-TS), international administration ID (carrier to be used for international call in the destination country) and CSR preference (preferred or mandatory).
The card vendor country code is used by the operator services position system (OSPS) office to determine whether a call is the CSR call. A call is the CSR call, if it is an international calling card call destined for the home country of the card issuer.
The international administration ID parameter and CSR preference indicator parameter are signaled by the OSPS office (via TOLL),to the GATEWAY office. The GATEWAY office depending on the condition of the network, and depending on the value of admin_id and the value of the csr_pref gives the CSR calls the following treatment:

- if admin_id's network (card issuer's network) is available, the CSR call is routed to that admin_id carrier's network in the destination country
- if admin_id's network (card issuer's network) is not available and if csr_pref is set to 'preferred', the CSR call is overflowed to another carrier's network in the destination country

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— if admin_id's network (card issuer's network) is not available and if csr_pref is set to 'mandatory', the CSR call is denied.

This relation is populated for USA generics only.

Engineering Information:
The maximum number of tuples for this relation is 200.
The average number of tuples for this relation is 64.

**Attribute: csr_attr_id**

**Fullname:** Carrier specific routing attribute ID
**Attribute Description** This attribute is the key into the RLcsr_attr relation. The csr_attr_id value is obtained from the RLtccid relation. It is used as an index to determine information for a particular card number when an international call is made.

**Attribute: card_vcc**

**Fullname:** Card vendor country code
**Attribute Description** This attribute provides the country code of the card issuer as defined by the ITU-TS.

**Attribute: admin_id**

**Fullname:** Administration identification
**Attribute Description** This attribute is used to store the administration ID. The administration ID represents an international carrier which should be used for routing a credit card call in the home country of the card issuer. This parameter is signaled by the OSPS office (via TOLL), to the GATEWAY office, and the GATEWAY office uses it to route the CSR call to an appropriate carrier's network in the destination country.

**Attribute: csr_pref**

**Fullname:** Carrier specific routing preference indicator
**Attribute Description** This attribute indicates whether the carrier to be used for the CSR international credit card, once the call reaches the home country of the card issuer, has to be the carrier identified in the admin_id (mandatory) or if the admin_id carrier is not available, the call may be overflowed to another carrier in that country (preferred).
This parameter is signaled by the OSPS office (via TOLL), to the GATEWAY office. The GATEWAY office uses it when routing the CSR call.

**Attribute: oaff1**

**Fullname:** Spare field 1
**Attribute Description** Spare field for fast features.

**Attribute: oaff2**

**Fullname:** Spare field 2
**Attribute Description** Spare field for fast features.

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# CTDECCKT

## 1. Description

CAMA transfer call identity tone decoder circuit names.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 768 |
| expected tuples in relation | 11 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 17 |

## 3. Field Layout

```
CTDECCKT    relid = 808   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     circuit     DMCIRCUIT    (ushort)     <--- key
     dummy       DMDUMMY      (ushort: 8)
         User, Compacted and Stored Tuple Layout   CTDECCKT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |            circuit            |     dummy     |***************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLctdecckt

**Relation Description** Contains CAMA transfer call identity tone decoder circuit name.

**Attribute: circuit**

**Fullname:** circuit name

**Attribute Description** CAMA transfer call identity tone decoder circuit name. These circuits can only be provided with DSU2-LDSUF. A maximum of 30 tuples are for the CAMA transfer call identity tone decoders per LDSUF service group. The circuit names here correspond to those populated in RLcktdata for type = PCCT_DEC.

**Attribute: dummy**

**Fullname:** dummy

**Attribute Description** Dummy

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# CTINFO

## 1. Description

static relation containing call type related information.

WARNING: This relation has an alternate structure which is used to define two arrays (sup_tm and dotflw). Caution must be used when adding new attributes to this relation and when modifying existing attributes positioned ahead of the arrays (sup_tm and dotflw) in the tuple structure so not to disturb the physical layout of these two arrays. These arrays must start on a word boundary so they can be accessed correctly. If you are adding new attributes, the new attributes must be added after the dotflw8 attribute and after the dotflw[numsuptm] attribute in the altval structure. Adding new attributes before this may upset the array alignment and cause intraflow not to work properly. If you are not sure how this works get help from your rdl engineer.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| expected tuples in relation | 21 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFR |
| relation type | DBSTATIC |
| trigger function | ACtctype |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
CTINFO      relid = 630   DBSTATIC   DBACC_CIND  DBPRAM    LRFR    NULL
     call_type   DMUNS8       (ushort: 8)     <--- key
     rcall_type  DMUNS8       (ushort: 8)
     ctname      DMCTXT10     (array [ 10 ] of char )
     max_calls   DMUNS13      (ushort: 13)
     cw_on       DMUNS11      (ushort: 11)
     ospsff1     DMUNS5       (ushort: 5)
     cw_off      DMUNS11      (ushort: 11)
     ospsff2     DMUNS5       (ushort: 5)
     del1_thresh  DMUNS11      (ushort: 11)
     ospsff3     DMUNS5       (ushort: 5)
     del2_thresh  DMUNS11      (ushort: 11)
     del3_thresh  DMUNS11      (ushort: 11)
 (a) ctinfsp1    DMBOOL       (enum: 1)
 (b) ctinfsp2    DMBOOL       (enum: 1)
 (c) ctinfsp3    DMBOOL       (enum: 1)
 (d) ctinfsp4    DMBOOL       (enum: 1)
 (e) annc_on_lvl1  DMBOOL       (enum: 1)
     ann1_routex  DMRTEIDX     (ushort: 14)
     ann2_routex  DMRTEIDX     (ushort: 14)
     ann3_routex  DMRTEIDX     (ushort: 14)
     serv_obj    DMUNL10      (ulong: 10)
     ctinfsp5    DMUNS8       (ushort: 8)
     serv_id     DMUNS10      (ushort: 10)
 (f) ctinfsp6    DMUNS4       (ushort: 4)
     serv_tm     DMUNS8       (ushort: 8)
```

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```
    mech_type   DMUNS8       (ushort: 8)
    cd_routex   DMRTEIDX     (ushort: 14)
(g) que_busy    DMBOOL       (enum: 1)
(h) dly_busy    DMBOOL       (enum: 1)
    tb_routex   DMRTEIDX     (ushort: 14)
(i) ct_optype   DMOPRTYP     (enum: 1)
(j) ct_acdtype  DMBOOL       (enum: 1)
(k) ctsign      DMBOOL       (enum: 1)
(l) intra_alwd  DMBOOL       (enum: 1)
    coin_recall  DMUNS8       (ushort: 8)
    notify      DMUNS8       (ushort: 8)
(m) ctinfsp7    DMUNS4       (ushort: 4)
    sup_tm1     DMUNS8       (ushort: 8)
    sup_tm2     DMUNS8       (ushort: 8)
    sup_tm3     DMUNS8       (ushort: 8)
    sup_tm4     DMUNS8       (ushort: 8)
    sup_tm5     DMUNS8       (ushort: 8)
    sup_tm6     DMUNS8       (ushort: 8)
    sup_tm7     DMUNS8       (ushort: 8)
    sup_tm8     DMUNS8       (ushort: 8)
    dotflw1     DMUSHORT     (ushort)
    dotflw2     DMUSHORT     (ushort)
    dotflw3     DMUSHORT     (ushort)
    dotflw4     DMUSHORT     (ushort)
    dotflw5     DMUSHORT     (ushort)
    dotflw6     DMUSHORT     (ushort)
    dotflw7     DMUSHORT     (ushort)
    dotflw8     DMUSHORT     (ushort)
        User, Compacted and Stored Tuple Layout CTINFO
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |               |                               |
 0 |   call_type   |   rcall_type  |             ctname            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 4 |                             ctname                            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 8 |                             ctname                            |
   |---------------+---------------+---------------+---------------|
   |                           |   |                       |       |
12 |        max_calls          |***|        cw_on          | ospsff1 |
   |---------------+---------------+---------------+---------------|
   |                       |       |                       |       |
16 |        cw_off         | ospsff2 |     del1_thresh     | ospsff3 |
   |---------------+---------------+---------------+---------------|
   |                       |       |                       | | | | | |
20 |     del2_thresh       |*******|     del3_thresh       |a|b|c|d|e|
   |---------------+---------------+---------------+---------------|
   |                           |   |                           |   |
24 |        ann1_routex        |***|        ann2_routex        |***|
   |---------------+---------------+---------------+---------------|
   |                           |                   |               |
```

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```
 28 |        ann3_routex        |      serv_obj     |    ctinfsp5   |
    |---------------+-----------+---------------+---+---------------|
    |               |       |   |               |   |               |
 32 |      serv_id      |   f   |***|    serv_tm    |   mech_type   |
    |---------------+-----------+---------------+---+---------------|
    |                           | | |                           | | |
 36 |         cd_routex         |g|h|         tb_routex         |i|j|
    |---------------+-----------+---------------+---+---------------|
    | | |               |           |               |       |       |
 40 |k|l|  coin_recall  |***********|     notify    |   m   |*******|
    |---------------+-----------+---------------+---+---------------|
    |               |           |               |   |               |
 44 |    sup_tm1    |    sup_tm2    |    sup_tm3    |    sup_tm4    |
    |---------------+-----------+---------------+---+---------------|
    |               |           |               |   |               |
 48 |    sup_tm5    |    sup_tm6    |    sup_tm7    |    sup_tm8    |
    |---------------+-----------+---------------+---+---------------|
    |                           |                   |               |
 52 |            dotflw1            |            dotflw2            |
    |---------------+-----------+---------------+---+---------------|
    |                           |                   |               |
 56 |            dotflw3            |            dotflw4            |
    |---------------+-----------+---------------+---+---------------|
    |                           |                   |               |
 60 |            dotflw5            |            dotflw6            |
    |---------------+-----------+---------------+---+---------------|
    |                           |                   |               |
 64 |            dotflw7            |            dotflw8            |
    |---------------+-----------+---------------+---+---------------|
      ( 68 bytes )
domain alCTINFO   struct  (39 sub-attributes)
          call_type   .34.fake     (ushort)
          rcall_type  .35.fake     (ushort)
          ctname      .36.fake     (array [ 10 ] of char )
          max_calls   .37.fake     (ushort: 13)
          cw_on       .38.fake     (ushort: 11)
          ospsff1     .39.fake     (ushort: 5)
          cw_off      .40.fake     (ushort: 11)
          ospsff2     .41.fake     (ushort: 5)
          del1_thresh  .42.fake     (ushort: 11)
          ospsff3     .43.fake     (ushort: 5)
          del2_thresh  .44.fake     (ushort: 11)
          del3_thresh  .45.fake     (ushort: 11)
   (a)    ctinfsp1    .0fake       (enum)
   (b)    ctinfsp2    .0fake       (enum)
   (c)    ctinfsp3    .0fake       (enum)
   (d)    ctinfsp4    .0fake       (enum)
   (e)    annc_on_lvl1  .0fake       (enum)
          ann1_routex  .46.fake     (ushort: 14)
          ann2_routex  .47.fake     (ushort: 14)
          ann3_routex  .48.fake     (ushort: 14)
          serv_obj    .49.fake     (ulong: 10)
          ctinfsp5    .50.fake     (ushort)
          serv_id     .51.fake     (ushort: 10)
```

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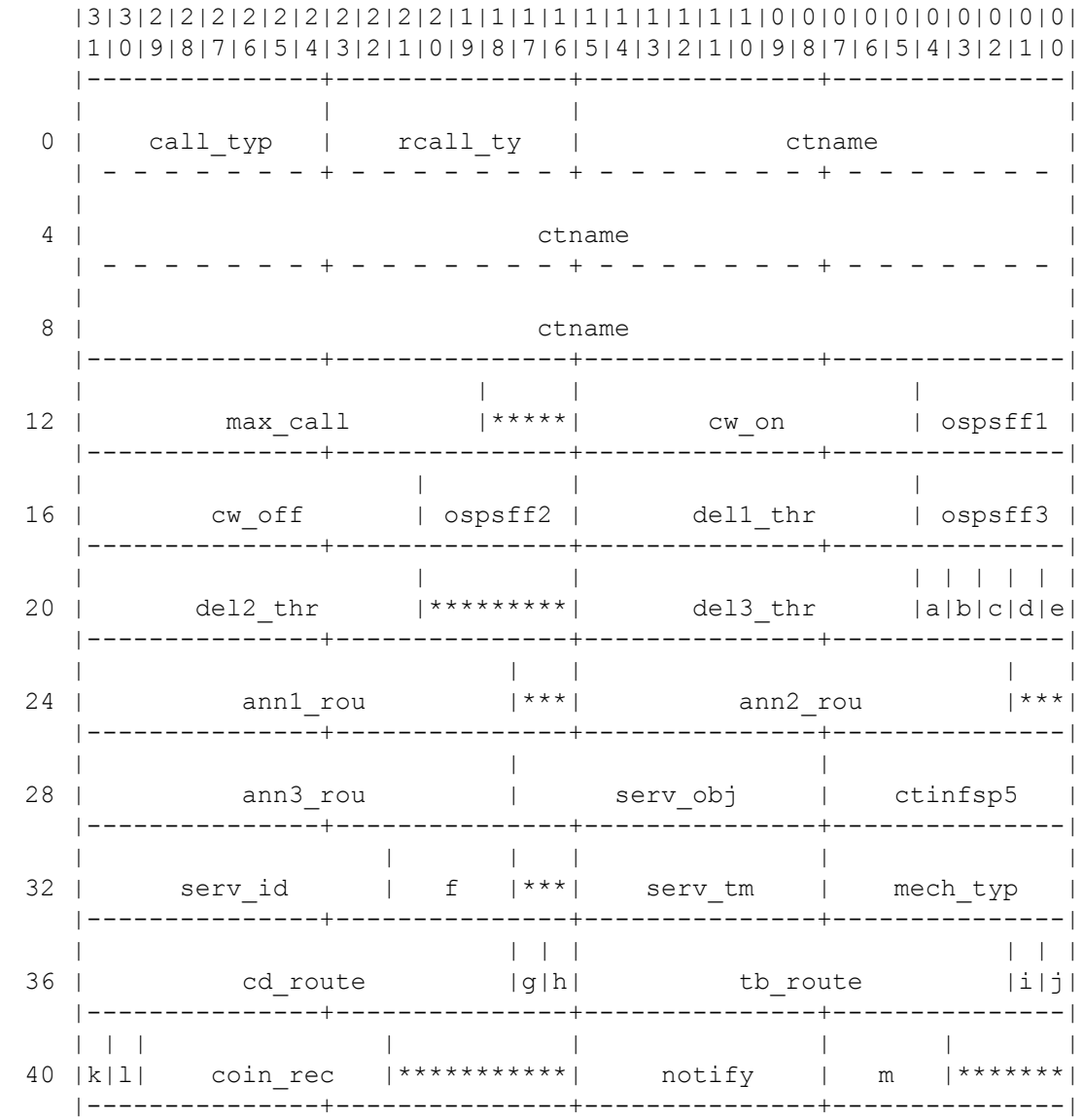
```
  (f)     ctinfsp6    .52.fake     (ushort: 4)
          serv_tm     .53.fake     (ushort)
          mech_type   .54.fake     (ushort)
          cd_routex   .55.fake     (ushort: 14)
  (g)     que_busy    .0fake       (enum)
  (h)     dly_busy    .0fake       (enum)
          tb_routex   .56.fake     (ushort: 14)
  (i)     ct_optype   .1fake       (enum)
  (j)     ct_acdtype  .0fake       (enum)
  (k)     ctsign      .0fake       (enum)
  (l)     intra_alwd  .0fake       (enum)
          coin_recall  .57.fake     (ushort)
          notify      .58.fake     (ushort)
  (m)     ctinfsp7    .59.fake     (ushort: 4)
          sup_tm      .60.fake     (array [ 8 ] of unsigned char )
          dotflw      .61.fake     (array [ 8 ] of unsigned short )
```

Structure Layout alCTINFO

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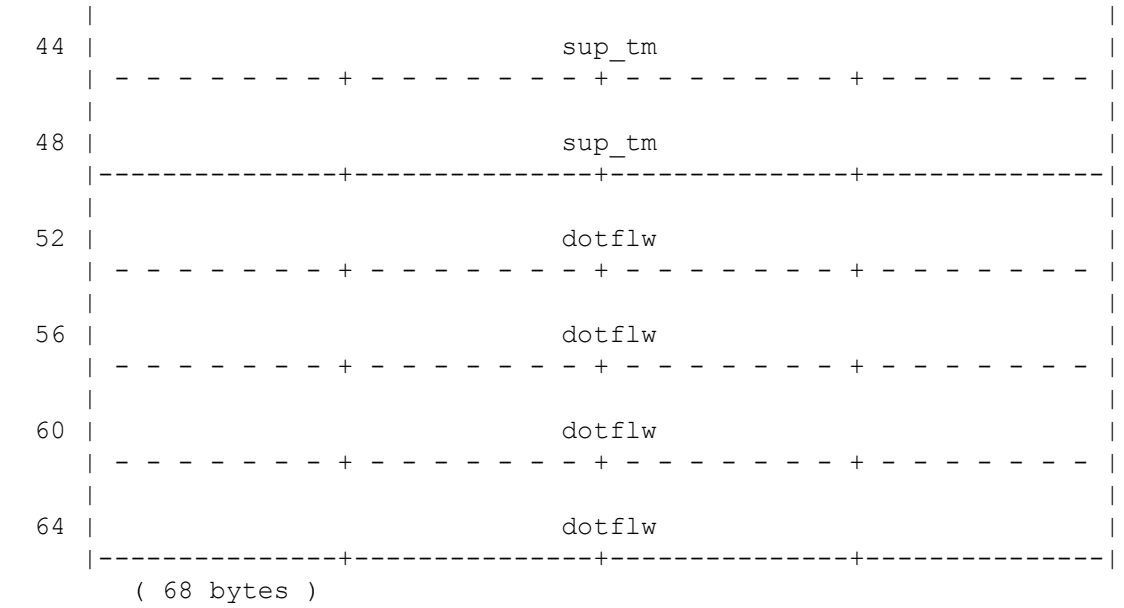


## 4. Population Rules for RLctinfo

**Relation Description** Call type information
Static relation containing call type related information.

This relation is not to be populated for export applications.

If the attribute serv_id is nonzero, then it cannot be changed (updated) if the call queue is active. Doing this will compromise any existing calls, or cause them to be dropped. This fact must be clearly documented for the customer.

Intraflow background information: The supporting teams are searched in order until either the call's queue delay does not exceed a delay outflow threshold, the call checks all its supporting teams without success, or the call is assigned to a serving team.

For example:
---
Assume the following when a call arrives for call type queue 1:

(1) Call type queue one has principle team (serv_tm) two and supporting serving teams (sup_tm1 and sup_tm2) 3 and 4, with delay outflow thresholds (dotflw1 and dotflw2) 5 and 15, respectively,

(2) Call type queue one has two calls on queue and there are no available servers on principle team two (serv_tm),

(3) The call at the head of call type queue one has waited 17 seconds,

(4) Serving team three's threshold is 50% (mxpcntsup = 50 from RLstinfo, mxpcntsup has no population dependencies with sup_tm or dotflw), it has four agents (operators) logged in, two are busy with calls from supporting serving teams,

(5) Serving team four's team threshold is 75% (mxpcntsup = 75), it has ten agents (operators) logged in, one is busy with a call from a supporting queue. The new call is queued because other calls are already queued. The automatic call distributor (ACD) checks the call at the head of the queue and finds that it has waited longer than the delay outflow threshold (dotflw1) for the first supporting serving team (sup_tm1), team three.

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The call cannot be intraflowed to team three, however, because doing so would cause more than 50% of the agents (operators) on the serving team to be handling calls from supporting queues simultaneously. So, the ACD checks the next supporting team (sup_tm2). The call has also waited longer than the delay outflow threshold (dotflw2) for its second supporting team (sup_tm2), team four. The call will be intraflowed to team four because team four will still have only 20% of its agents handling calls from its supporting queues, much less than its team threshold of 75%. The sup_tm and dotflw attributes are populated as follows:

```
sup_tm1 = 3     dotflw1 = 5
sup_tm2 = 4     dotflw2 = 15
```

**Attribute: call_type**

**Fullname:** Call type

**Attribute Description** The number of the call queue.

**Attribute: rcall_type**

**Fullname:** Operator Services Position System (OSPS) operator recall call type

**Attribute Description** OSPS operator call type to be used for recall. RC/ODA form file check: If rcall_type is unknown, set it equal to call_type.

**Attribute: ctname**

**Fullname:** The name of the call type

**Attribute Description** The alphanumeric characters ([0-9],[A-Z],[a-z]) and blanks are used. The character string in ctname should be left justified.

**Attribute: max_calls**

**Fullname:** Maximum number of calls allowed to queue on a call type queue

**Attribute Description** The max_calls field may range from 0 to the number of tuples allowed in RLcqdb.

**Attribute: cw_on**

**Fullname:** Call waiting display at position

**Attribute Description** This value represents the seconds of delay at which the call waiting display will be lit at positions serving this call type. The cw_on value must be greater than cw_off.

**Attribute: ospsff1**

**Fullname:** OSPS fast feature item 1

**Attribute Description** This item is to be used for future OSPS fast feature development

**Attribute: cw_off**

**Fullname:** Call waiting display darkened delay at positions

**Attribute Description** This value represents the seconds of delay at which the calls waiting display will be darkened at positions serving this call type. The cw_off value must be less than cw_on value.

**Attribute: ospsff2**

**Fullname:** OSPS fast feature item 2

**Attribute Description** The item is to be used for future OSPS fast feature development.

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**Attribute: del1_thresh**

**Fullname:** First level of delay announcement threshold in seconds.

**Attribute Description** Note: 'del1_thresh' < 'del2_thresh' < 'del3_thresh'. 'del1_thresh', 'del2_thresh', and 'del3_thresh' must never be equal.
Note 2: 0 is used for forced first announcement.

**Attribute: ospsff3**

**Fullname:** OSPS fast feature item 3

**Attribute Description** The item is to be used for future OSPS fast feature development.

**Attribute: del2_thresh**

**Fullname:** Second level of delay announcement threshold in seconds

**Attribute Description** Note: 'del1_thresh' < 'del2_thresh' < 'del3_thresh'. 'del1_thresh', 'del2_thresh', and 'del3_thresh' must never be equal.

**Attribute: del3_thresh**

**Fullname:** Third level of delay announcement threshold in seconds

**Attribute Description** Note: 'del1_thresh' < 'del2_thresh' < 'del3_thresh'. 'del1_thresh', 'del2_thresh', and 'del3_thresh' must never be equal.

**Attribute: ctinfsp1**

**Fullname:** ctinfo spare 1

**Attribute Description** Spare ctinfo attribute.

**Attribute: ctinfsp2**

**Fullname:** ctinfo spare 2

**Attribute Description** Spare ctinfo attribute.

**Attribute: ctinfsp3**

**Fullname:** ctinfo spare 3

**Attribute Description** Spare ctinfo attribute.

**Attribute: ctinfsp4**

**Fullname:** ctinfo spare 4

**Attribute Description** Spare ctinfo attribute.

**Attribute: annc_on_lvl1**

**Fullname:** Announcement on level 1

**Attribute Description** Specifies whether an announcement on level 1 should be given when the caller is placed in the call queue. This announcement is used for initial operator requests, or on transfer to a serving team.

**Attribute: ann1_routex**

**Fullname:** Route index for first delay announcement

**Attribute Description** Must appear in RLrt_routing and must point to an announcement.

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**Attribute: ann2_routex**

**Fullname:** Route index for second delay announcement

**Attribute Description** Must appear in RLrt_routing and must point to an announcement.

**Attribute: ann3_routex**

**Fullname:** Route index for third delay announcement

**Attribute Description** Must appear in RLrt_routing and must point to an announcement.

**Attribute: serv_obj**

**Fullname:** Service delay objective for this call type

**Attribute Description** This is the average delay in tenths of seconds that calls of this type should expect before reaching a server.

**Attribute: serv_id**

**Fullname:** Service identification

**Attribute Description** External Audible Response Unit (ARU) service ID. T&A call types with a zero serv_id are standard T&A call types. T&A call types with a nonzero serv_id are Listing Services (LS) call types. This field does not apply to directory assistance (DA) call types, and is zero for them. There are restrictions in the Recent Change (RC) - Office Data Administration (ODA) rules for when this field can change to/from zero. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: serv_tm**

**Fullname:** Number of the serving team serving this call type

**Attribute Description** A tuple keyed by this value must appear in RLstinfo and that RLstinfo tuple must point back to this RLctinfo tuple by the appropriate bit in the ctmask attributes. RLctinfo.serv_tm is the principal serving team. The first team in a queue's list is called the principal team, while all other teams are the supporting teams.

RESTRICTIONS/DEPENDENCIES: The tuple in RLstinfo which is keyed by serv_tm must have the same value for st_optype as the value of ct_optype in this tuple. There are some restrictions on when this value can be changed in the RC-ODA rules.

**Attribute: mech_type**

**Fullname:** mech type

**Attribute Description** Specifies the MECH queue for the call_type. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

RC/ODA form file check: If mech_type is unknown and required (see check section), set it equal to call_type.

**Attribute: cd_routex**

**Fullname:** Route index of closed down announcement

**Attribute Description** This route index must be a route index in RLrt_routing that points to an announcement. Calls of this call type are routed to this announcement when ctsign == DBNO.

**Attribute: que_busy**

**Fullname:** Call queue busy

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**Attribute Description** Indicates if busy tone should be given, instead of announcement/re-order, when a call is routed to the specified call type queue and there are no queue slots available for that queue.

**Attribute: dly_busy**

**Fullname:** Delay thresholds busy

**Attribute Description** Indicates if busy tone should be given, instead of announcement/re-order, when the delay thresholds for the specified call type queue have been exceeded.

**Attribute: tb_routex**

**Fullname:** Route index for the turnback announcement

**Attribute Description** This route index must be a route index in RLrt_routing that points to an announcement. This field must not be zero if the field ct_optype is set to OSPS_TA. If ct_optype is set to OSPS_DA, then this field should be zero. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: ct_optype**

**Fullname:** Call type operator

**Attribute Description** Type of operator that handles this call type. Only DA call types may be assigned to DA serving teams and T&A call types assigned to T&A serving teams.

**Attribute: ct_acdtype**

**Fullname:** Commercial ACD call type.

**Attribute Description** This call type is used for the OSPS commercial ACD feature.

**Attribute: ctsign**

**Fullname:** Open or closed for call queues.

**Attribute Description** Availability of this call type:

```
DBYES   - if available
DBNO    - if unavailable
```

**Attribute: intra_alwd**

**Fullname:** Indicates whether intraflow is allowed

**Attribute Description** Indicates if intraflow is allowed for this call queue. For intra_alwd = DBYES, a call type queue must have at least one supporting serving team (sup_tm(1-8)) defined. Otherwise, if there are no supporting serving teams (sup_tm(1-8)) RLctinfo.intra_alwd = DBNO.

If the intra_alwd attribute is DBYES, an ODA WARNING message should appear if intra_alwd in RLstinfo is set to DBNO keyed by sup_tm(1-8) or/and if the global parameter Glac_intra is set to DBNO. The warning message indicates which equipped sup_tm(s) have the intra_alwd attribute set to DBNO.

No warning message should appear if RLstinfo.intra_alwd is set to DBYES and Glac_intra is set to DBYES.

**Attribute: coin_recall**

**Fullname:** Coin recall call type

**Attribute Description** Call type queue for coin recall.
DEFAULT: The call_type associated with this tuple.

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**Attribute: notify**

**Fullname:** Coin notify

**Attribute Description** Indicates the specific flavor of notify coin recall. The default value: the call_type associated with this tuple.

**Attribute: sup_tm1**

**Fullname:** Supporting team one

**Attribute Description** Indicates supporting team one for intraflow. A call type queue may have zero to eight supporting serving teams. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: sup_tm2**

**Fullname:** Supporting team two

**Attribute Description** Indicates supporting team two for intraflow. A call type queue may have zero to eight supporting serving teams. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: sup_tm3**

**Fullname:** Supporting team three

**Attribute Description** Indicates supporting team three for intraflow. A call type queue may have zero to eight supporting serving teams. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: sup_tm4**

**Fullname:** Supporting team four

**Attribute Description** Indicates supporting team four for intraflow. A call type queue may have zero to eight supporting serving teams. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: sup_tm5**

**Fullname:** Supporting team five

**Attribute Description** Indicates supporting team five for intraflow. A call type queue may have zero to eight supporting serving teams. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: sup_tm6**

**Fullname:** Supporting team six

**Attribute Description** Indicates supporting team six for intraflow. A call type queue may have zero to eight supporting serving teams. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: sup_tm7**

**Fullname:** Supporting team seven

**Attribute Description** Indicates supporting team seven for intraflow. A call type queue may have zero to eight supporting serving teams. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

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**Attribute: sup_tm8**

**Fullname:** Supporting team eight

**Attribute Description** Indicates supporting team eight for intraflow. A call type queue may have zero to e
ight supporting serving teams. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: dotflw1**

**Fullname:** Delay outflow threshold for supporting team one

**Attribute Description** Indicates the intraflow delay outflow threshold in seconds for supporting team one (sup_tm1).

**Attribute: dotflw2**

**Fullname:** Delay outflow threshold for supporting team two

**Attribute Description** Indicates the intraflow delay outflow threshold in seconds for supporting team two (sup_tm2).

**Attribute: dotflw3**

**Fullname:** Delay outflow threshold for supporting team three

**Attribute Description** Indicates the intraflow delay outflow threshold in seconds for supporting team three (sup_tm3).

**Attribute: dotflw4**

**Fullname:** Delay outflow threshold for supporting team four

**Attribute Description** Indicates the intraflow delay outflow threshold in seconds for supporting team four (sup_tm4).

**Attribute: dotflw5**

**Fullname:** Delay outflow threshold for supporting team five

**Attribute Description** Indicates the intraflow delay outflow threshold in seconds for supporting team five (sup_tm5).

**Attribute: dotflw6**

**Fullname:** Delay outflow threshold for supporting team six

**Attribute Description** Indicates the intraflow delay outflow threshold in seconds for supporting team six (sup_tm6).

**Attribute: dotflw7**

**Fullname:** Delay outflow threshold for supporting team seven

**Attribute Description** Indicates the intraflow delay outflow threshold in seconds for supporting team seven (sup_tm7).

**Attribute: dotflw8**

**Fullname:** Delay outflow threshold for supporting team eight

**Attribute Description** Indicates the intraflow delay outflow threshold in seconds for supporting team eight (sup_tm8).

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**Attribute: ctinfsp5**

**Fullname:** ctinfo spare 5

**Attribute Description** Spare ctinfo attribute.

**Attribute: ctinfsp6**

**Fullname:** ctinfo spare 6

**Attribute Description** Spare ctinfo attribute.

**Attribute: ctinfsp7**

**Fullname:** ctinfo spare 7

**Attribute Description** Spare ctinfo attribute.

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# CTTUCB

## 1. Description

Relation containing the callback information about the central trunk test unit (CTTU).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 50 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | CTTU |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 512 |
| page level | 0 |

## 3. Field Layout

```
CTTUCB      relid = 288   DBSTATIC   DBACC_HASH  DBPRAM    LP      CTTU
     user_numb   DMSHORT      (short)     <--- key
 (a) lvl_secure  DMSECURE     (enum: 2)
     carrid      DMCARRID     (array [ 4 ] of char )
     cbakgport   DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     security    DMDN         (struct)     <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
     talkmon     DMDN         (struct)     <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
            User Tuple Layout    CTTUCB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |   |           |               |
  0 |           user_numb           | a |***********|     carrid    |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                               |               |
  4 |                     carrid                    |***************|
    |===============+========== cbakgport ==========+===============|
    |                               |               |               |
  8 |             member            |***************|     module    |
    |===============+==========  security ==========+===============|
    |       |       |                                               |
 12 | digcnt|*******|                      dn                       |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                               dn                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                               dn                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
```

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```
24 |                               dn                                |
   |===============+=========== talkmon ===========+===============|
   |       |       |                                                 |
28 | digcnt|*******|                      dn                         |
   | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                                 |
32 |                               dn                                |
   | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                                 |
36 |                               dn                                |
   | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                                 |
40 |                               dn                                |
   |===============+===============+===============+===============|
     ( 44 bytes )
    user_numb   DMSHORT      (short)     <--- key
(a) lvl_secure  DMSECURE     (enum: 2)
    carrid      DMCARRID     (array [ 4 ] of char )
    cbakgport   DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    security    DMCDN        (struct)     <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    talkmon     DMCDN        (struct)     <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
```

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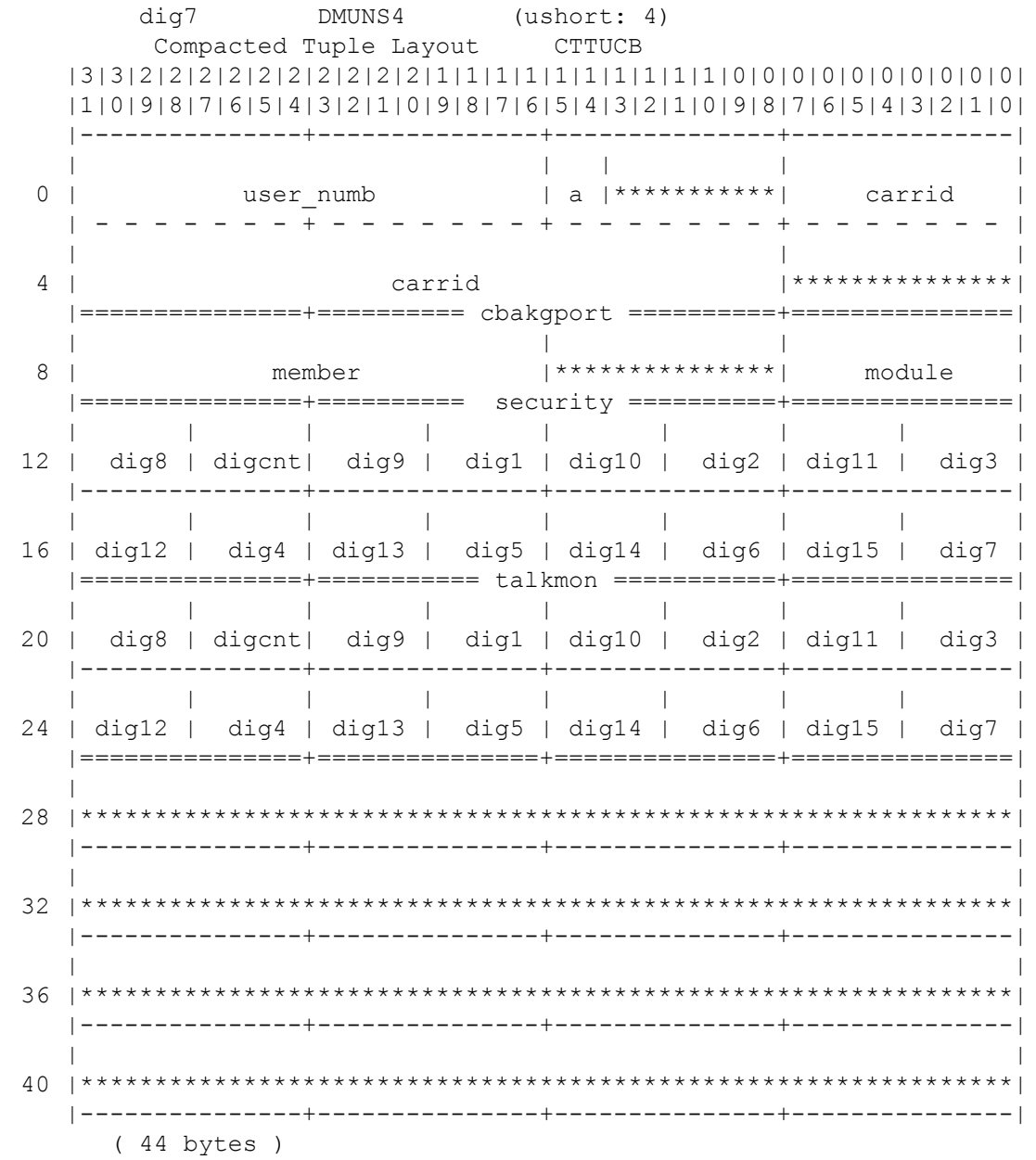


( 44 bytes )

| | | | |
|---|---|---|---|
| | user_numb | DMSHORT | (short) <--- key |
| (a) | lvl_secure | DMSECURE | (enum: 2) |
| | carrid | DMCARRID | (array [ 4 ] of char ) |
| | cbakgport | DMGPORT | (struct) |
| | member | DMPORT | (ushort) |
| | module | DMMODULE | (ushort: 8) |
| | security | DMCDN | (struct) <--- compacted |
| | dig8 | DMUNS4 | (ushort: 4) |
| | digcnt | DMDIGCNT | (uchar: 4) |
| | dig9 | DMUNS4 | (ushort: 4) |
| | dig1 | DMUNS4 | (ushort: 4) |
| | dig10 | DMUNS4 | (ushort: 4) |
| | dig2 | DMUNS4 | (ushort: 4) |
| | dig11 | DMUNS4 | (ushort: 4) |
| | dig3 | DMUNS4 | (ushort: 4) |

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```
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    talkmon     DMCDN        (struct)     <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
          Stored Tuple Layout   CTTUCB
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |   |           |               |
 0 |           user_numb           | a |***********|     carrid    |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                               |               |
 4 |                     carrid                    |***************|
   |===============+========== cbakgport ==========+===============|
   |                               |               |               |
 8 |             member            |***************|     module    |
   |===============+==========  security ==========+===============|
   |       |       |       |       |       |       |       |       |
12 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
16 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
   |===============+========== talkmon ===========+===============|
   |       |       |       |       |       |       |       |       |
20 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
24 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
   |===============+===============+===============+===============|
     ( 28 bytes )
```

## 4. Population Rules for RLcttucb

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**Relation Description** Callback information about the central trunk test unit. Relation containing the callback information about the central trunk test unit (CTTU).

**Attribute: user_numb**

**Fullname:** CTTU user number
**Attribute Description** This attribute is the CTTU user number. One tuple should exist for each CTTU that can access the switch and request class A, B, or C security access. The valid user numbers are 2-9 and 20-49. If the office has a CTTU, an entry for user number 2 is required and it must have class 'A' security access.

**Attribute: lvl_secure**

**Fullname:** security level of the CTTU
**Attribute Description** Specifies the security level of the CTTU. Populate one attribute for every valid user number in the 'user_numb' attribute.

```
Use CT_CLSA if the CTTU has class 'A' security.
Use CT_CLSB if the CTTU has class 'B' security.
Use CT_CLSC if the CTTU has class 'C' security.
```

**Attribute: security**

**Fullname:** DN for security callback
**Attribute Description** This is a directory number used to perform security callback. This attribute is required for all tuples.

**Attribute: security.digcnt**

**Fullname:** digit count
**Attribute Description** Digit count.

**Attribute: security.dn**

**Fullname:** directory number
**Attribute Description** Security callback DN.

**Attribute: talkmon**

**Fullname:** DN for talk and monitor
**Attribute Description** DN for talk and monitor.

**Attribute: talkmon.digcnt**

**Fullname:** digit count
**Attribute Description** Digit count.

**Attribute: talkmon.dn**

**Fullname:** directory number
**Attribute Description** Talk and monitor DN.

**Attribute: carrid**

**Fullname:** carrier ID for call backs
**Attribute Description** Indicates the carrier through which a call to a remote CTTU will be routed if the DN is outside the LATA. It must be a 4 digit character string where each of the characters can be '0' through '9'. The carrier ID value must be an existing one in the RLfc_carr relation. The default is '\0'.

**Attribute: cbakgport**

**Fullname:** logical test port used to originate a talk and monitor connection
**Attribute Description** This attribute is the global port corresponding to the LTP used to originate talk and monitor calls. There should one per tuple having a talk and monitor DN.

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**Attribute: cbakgport.member**
**Fullname:** member
**Attribute Description** Port member.

**Attribute: cbakgport.module**
**Fullname:** module
**Attribute Description** Port module.

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# CV_ADMGP

## 1. Description

This relation provides for SCCP Conversion a mapping from a Network Number / Destination Point Code to a particular administration group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 3500 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
CV_ADMGP    relid = 2394  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     dpc          DMPT_CODE     (ulong: 24)     <--- key
     net_num      DMUNS5        (ushort: 5)     <--- key
 (a) pc_size      DMPC_SIZE     (enum: 1)     <--- key
     full_ct      DMUNS9        (ushort: 9)
     adm_grp      DMUNS5        (ushort: 5)
         User, Compacted and Stored Tuple Layout   CV_ADMGP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |         | |   |
  0 |                       dpc                     | net_num |a|***|
    |---------------+---------------+---------------+---------------|
    |                 |         |                                   |
  4 |     full_ct     | adm_grp |***********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLcv_admgp

**Relation Description**

SCCP Conversion Administration Group Mapping Relation

This relation provides for Signaling Connectionless Control Part's (SCCP) Conversion functionality a mapping from a Network Number and Destination Point Code to an administration group.

**Attribute: net_num**

**Fullname:** SCCP Network Number

**Attribute Description** This attribute provides a mapping from a SCCP Global SM to an index called network number.

**Attribute: dpc**

**Fullname:** Destination Point Code

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**Attribute Description** This attribute represents a SS7 International, SS7 National, or CCSNA7 Destination Point Code.

**Attribute: pc_size**

**Fullname:** SCCP Conversion Point Code Size

**Attribute Description** This attribute specifies whether this point code is a full point code or cluster point code.

**Attribute: adm_grp**

**Fullname:** SCCP Conversion Administration Group

**Attribute Description** This attribute represents a group of Destination Point Codes which will be converted in the same manner.

**Attribute: full_ct**

**Fullname:** SCCP Conversion Count of Full DPC's in Group.

**Attribute Description** This attribute specifies the number of full destination point codes represented by this cluster point code. If this attribute is 0, then the tuple is a valid point code. Otherwise, the tuple is a mechanism to keep track of cluster point codes represented by a particular group.

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# CV_CDPY

## 1. Description

This relation provides for SCCP conversion information needed to convert the called party address information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 2560 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
CV_CDPY     relid = 2395  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     tran_typ    DMUNS8       (ushort: 8)
     num_dlt     DMUNS8       (ushort: 8)
     new_tt      DMUNS8       (ushort: 8)
     new_nai     DMUNS7       (ushort: 7)
 (a) src_np      DMCV_SRC     (enum: 1)
     adm_grp     DMUNS5       (ushort: 5)     <--- key
     gti         DMUNS4       (ushort: 4)     <--- key
     new_gti     DMUNS4       (ushort: 4)
 (b) ssn_map     DMUNS2       (ushort: 2)
 (c) src_nai     DMCV_SRC     (enum: 1)
     new_np      DMUNS4       (ushort: 4)
 (d) new_ensch   DMUNS4       (ushort: 4)
 (e) src_ensch   DMCV_SRC     (enum: 1)
 (f) adj_ind     DMBOOL       (enum: 1)
 (g) rti         DMUNS1       (ushort: 1)     <--- key
 (h) new_rti     DMUNS1       (ushort: 1)
        User, Compacted and Stored Tuple Layout    CV_CDPY
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |               |               |             | |
 0 |    tran_typ   |    num_dlt    |     new_tt    |   new_nai   |a|
   |---------------+---------------+---------------+---------------|
   |         |       |       |   | |       |       | | | | |       |
 4 | adm_grp |  gti  |new_gti| b |c| new_np|   d   |e|f|g|h|*******|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population Rules for RLcv_cdpy

**Relation Description** SCCP Conversion Called Party Address Information
This relation provides for Signaling Connectionless Control Part's (SCCP) Conversion information for converting the called party address information.

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**Attribute: adm_grp**

**Fullname:** SCCP Conversion Administration Group

**Attribute Description** This attribute represents a group of destination point codes that will be converted in the same manner.

**Attribute: rti**

**Fullname:** Routing Indicator

**Attribute Description** This attribute is the routing indicator in the message to convert.

**Attribute: gti**

**Fullname:** Global Title Indicator

**Attribute Description** This attribute is the global title indicator in the message to be converted.

**Attribute: tran_typ**

**Fullname:** Translation Type

**Attribute Description** This attribute represents the translation type in the message to be converted.

**Attribute: ssn_map**

**Fullname:** Subsystem Number Mapping

**Attribute Description** This attribute specifies to which subsystem number should be put in the converted message.

**Attribute: new_rti**

**Fullname:** New Routing Indicator

**Attribute Description** This attribute specifies the routing indicator to be put in the converted message.

**Attribute: num_dlt**

**Fullname:** Number of Digits to Delete from Address String

**Attribute Description** This attribute specifies the number of digits to delete before putting the address string into the converted message.

**Attribute: new_gti**

**Fullname:** New Global Title Indicator

**Attribute Description** This attribute specifies the global title indicator to be put into the converted message.

**Attribute: new_tt**

**Fullname:** New Translation Type

**Attribute Description** This attribute specifies the translation type to be put into the converted message.

**Attribute: src_nai Fullname:** Source for the Nature of Address Indicator

**Attribute Description** This attribute specifies the source for the nature of address indicator that will be placed into the converted message.

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**Attribute: new_nai**

**Fullname:** New Nature of Address Indicator

**Attribute Description** This attribute specifies the nature of address indicator that will be placed into the converted message.

**Attribute: src_np**

**Fullname:** Source of the Numbering Plan Indicator

**Attribute Description** This attribute specifies the source for the numbering plan indicator to be placed into the converted message.

**Attribute: new_np**

**Fullname:** New Numbering Plan Indicator

**Attribute Description** This attribute specifies the numbering plan indicator that will be placed into the converted message.

**Attribute: src_ensch**

**Fullname:** Source of the Encoding Scheme Indicator

**Attribute Description** This attribute specifies the source of the encoding scheme indicator that will be placed into the converted message.

**Attribute: new_ensch**

**Fullname:** New Encoding Scheme

**Attribute Description** This attribute specifies the encoding scheme indicator that will be placed into the converted message.

**Attribute: adj_ind**

**Fullname:** Even / Odd Adjustment Indicator

**Attribute Description** This attribute specifies whether adjustment will be performed to the converted message.

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# CV_CGPY

## 1. Description

This relation provides for SCCP conversion information needed to convert the calling party address information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 2560 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
CV_CGPY     relid = 2396  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     tran_typ    DMUNS8       (ushort: 8)     <--- key
     st_pcs      DMUNS8       (ushort: 8)
     new_tt      DMUNS8       (ushort: 8)
     new_nai     DMUNS7       (ushort: 7)
 (a) src_np      DMCV_SRC     (enum: 1)
     adm_grp     DMUNS5       (ushort: 5)     <--- key
     gti         DMUNS4       (ushort: 4)     <--- key
     new_gti     DMUNS4       (ushort: 4)
 (b) src_fpc     DMUNS2       (ushort: 2)
 (c) src_nai     DMCV_SRC     (enum: 1)
     new_np      DMUNS4       (ushort: 4)
 (d) new_ensch   DMUNS4       (ushort: 4)
 (e) src_spc     DMUNS2       (ushort: 2)
 (f) src_ensch   DMCV_SRC     (enum: 1)
 (g) adj_ind     DMBOOL       (enum: 1)
 (h) rti         DMUNS1       (ushort: 1)     <--- key
 (i) new_rti     DMUNS1       (ushort: 1)
        User, Compacted and Stored Tuple Layout    CV_CGPY
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |               |               |             | |
 0 |    tran_typ   |     st_pcs    |     new_tt    |   new_nai   |a|
   |---------------+---------------+---------------+---------------|
   |         |       |       |   | |       |       |   | | | | |   |
 4 | adm_grp |  gti  |new_gti| b |c| new_np|   d   | e |f|g|h|i|***|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population Rules for RLcv_cgpy

**Relation Description** SCCP Conversion Calling Party Address Information.
This relation provides for Signaling Connectionless Control Part's (SCCP) Conversion information for converting

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the calling party address information.

**Attribute: adm_grp**

**Fullname:** SCCP Conversion Administration Group

**Attribute Description** This attribute represents a group of destination point codes that will be converted in the same manner.

**Attribute: rti**

**Fullname:** Routing Indicator

**Attribute Description** This attribute is the routing indicator in the message to convert.

**Attribute: gti**

**Fullname:** Global Title Indicator

**Attribute Description** This attribute is the global title indicator in the message to be converted.

**Attribute: tran_typ**

**Fullname:** Translation Type

**Attribute Description** This attribute represents the translation type in the message to be converted.

**Attribute: new_rti**

**Fullname:** New Routing Indicator

**Attribute Description** This attribute specifies the new routing indicator to be placed into the converted message.

**Attribute: st_pcs**

**Fullname:** Location to store the point codes

**Attribute Description** This attribute specifies where to store the point codes in the coverted message.

**Attribute: src_fpc**

**Fullname:** Source of First Point Code

**Attribute Description** This attribute specifies the source of the first point code to be stored.

**Attribute: src_spc**

**Fullname:** Source of Second Point Code

**Attribute Description** This attribute specifies the source of the second point code.

**Attribute: new_gti**

**Fullname:** New Global Title Indicator

**Attribute Description** This attribute specifies the global title indicator to be put into the converted message.

**Attribute: new_tt**

**Fullname:** New Translation Type

**Attribute Description** This attribute specifies the translation type to be put into the converted

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message.

**Attribute: src_nai**

**Fullname:** Source for the Nature of Address Indicator

**Attribute Description** This attribute specifies the source for the nature of address indicator that will be placed into the converted message.

**Attribute: new_nai**

**Fullname:** New Nature of Address Indicator

**Attribute Description** This attribute specifies the nature of address indicator that will be placed into the converted message.

**Attribute: src_np**

**Fullname:** Source of the Numbering Plan Indicator

**Attribute Description** This attribute specifies the source for the numbering plan indicator to be placed into the converted message.

**Attribute: new_np**

**Fullname:** New Numbering Plan Indicator

**Attribute Description** This attribute specifies the numbering plan indicator that will be placed into the converted message.

**Attribute: src_ensch**

**Fullname:** Source of the Encoding Scheme Indicator

**Attribute Description** This attribute specifies the source of the encoding scheme indicator that will be placed into the converted message.

**Attribute: new_ensch**

**Fullname:** New Encoding Scheme

**Attribute Description** This attribute specifies the encoding scheme indicator that will be placed into the converted message.

**Attribute: adj_ind**

**Fullname:** Even / Odd Adjustment Indicator

**Attribute Description** This attribute specifies whether adjustment will be performed to the converted message.

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# CV_DSTDN

## 1. Description

This relation contains the Call Vector destination number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |

## 3. Field Layout

```
CV_DSTDN    relid = 1253  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     destnmbr    DMUNS8        (ushort: 8) <--- key
     dnum0       DMUNS4        (ushort: 4)
     dnum1       DMUNS4        (ushort: 4)
     dnum2       DMUNS4        (ushort: 4)
     dnum3       DMUNS4        (ushort: 4)
     dnum4       DMUNS4        (ushort: 4)
     dnum5       DMUNS4        (ushort: 4)
     dnum6       DMUNS4        (ushort: 4)
     dnum7       DMUNS4        (ushort: 4)
     dnum8       DMUNS4        (ushort: 4)
     dnum9       DMUNS4        (ushort: 4)
 (a) dirnmbr     DMBOOL        (enum: 1)
         User, Compacted and Stored Tuple Layout   CV_DSTDN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |       |       |       |       |       |       |
  0 |    destnmbr   | dnum0 | dnum1 | dnum2 | dnum3 | dnum4 | dnum5 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       | |                           |
  4 | dnum6 | dnum7 | dnum8 | dnum9 |a|***************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLcv_dstdn

### Relation Description

Call vectoring destination number to directory number (DN) mapping table.
This relation defines where a call will be routed when a given destination number is specified in a call vectoring route steps. Depending on the value of the 'dirnmbr' attribute, the tuple will define a DN (for routing within the office) or a four-digit route index. In the case of routing over public networks, if more than ten digits are required or if billing is needed, the directory number defined in the tuple should correspond

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to a line with remote call forwarding. Then that line would be forwarded to the desired destination.
When a DN is specified, it is important that no billing be required to reach this DN. This DN can be a remote call forwarded line if the access to a destination over public facilities that requires billing the call to the commercial-automatic call distributor (C-ACD) customer. Use of a route index should only be permitted when the route index corresponds to private facilities.

**Attribute:**
destnmbr
**Fullname:**
Destination number minus 1
**Attribute Description:**
Destination numbers are used in call vectoring route steps (RLcv_vectr) to send calls to other C-ACD sites. An entered destination number must be decremented by one in order to form the key for the corresponding tuple of the RLcv_dstdn relation.

**Attribute:**
dirnmbr
**Fullname:**
Directory number defined indicator
**Attribute Description:**
This attribute indicates whether the 'dnum0' through 'dnum9' attributes correspond to a directory/telephone number (TN) or a route index. If 'dirnmbr' is DBYES, a TN is stored in 'dnum0' through 'dnum9'. If the TN is less than ten digits, the remaining 'dnum[x]' fields are set to '15'. For example, 35217 would be stored with '3' in the 'dnum0' and '7' in 'dnum4' with 'dnum[5-9]' containing '15'. However, if 'dirnmbr' is DBNO, 'dnum0' through 'dnum4' contain digits corresponding to the desired route index. In the latter case, 'dnum5' through 'dnum9' are meaningless and are set to 15.

**Attribute:**
dnum0
**Fullname:**
Directory number 0
**Attribute Description:**
This is either the first digit of a directory number (if 'dirnmbr' is DBYES) or a route index (if 'dirnmbr' is DBNO).

**Attribute:**
dnum1
**Fullname:**
Directory number 1
**Attribute Description:**
If 'dirnmbr' is DBYES, this is the second digit of a directory number (if it exists) or 15 (if the TN is less than two digits); otherwise, this attribute is the second digit of a route index.

**Attribute:**

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dnum2

**Fullname:**

Directory number 2

**Attribute Description:**

If 'dirnmbr' is DBYES, this is the third digit of a directory number (if it exists) or 15 (if the TN is less than three digits); otherwise, this attribute is the third digit of a route index. This is either the third digit of a directory number (if 'dirnmbr' is DBYES) or a route index (if 'dirnmbr' is DBNO).

**Attribute:**

dnum3

**Fullname:**

Directory number 3

**Attribute Description:**

If 'dirnmbr' is DBYES, this is the fourth digit of a directory number (if it exists) or 15 (if the TN is less than four digits); otherwise, this attribute is the fourth digit of a route index.

**Attribute:**

dnum4

**Fullname:**

Directory number 4

**Attribute Description:**

If 'dirnmbr' is DBYES, this is the fifth digit of a directory number (if it exists) or 15 (if the TN is less than five digits); otherwise, this attribute is the fifth digit of a route index.

**Attribute:**

dnum5

**Fullname:**

Directory number 5

**Attribute Description:**

If 'dirnmbr' is DBYES, this is the sixth digit of a directory number (if it exists) or 15 (if the TN is less than six digits); otherwise, this attribute is meaningless.

**Attribute:**

dnum6

**Fullname:**

Directory number 6

**Attribute Description:**

If 'dirnmbr' is DBYES, this is the seventh digit of a directory number (if it exists) or 15 (if the TN is less than seven digits); otherwise, this attribute is meaningless.

**Attribute:**

dnum7

**Fullname:**

Directory number 7

**Attribute Description:**

If 'dirnmbr' is DBYES, this contains the eighth digit of a directory number (if it exists) or 15 (if the TN is less than eight digits);

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otherwise, this attribute is meaningless.

**Attribute:**
dnum8
**Fullname:**
Directory number 8
**Attribute Description:**
If 'dirnmbr' is DBYES, this contains the ninth digit of a directory number (if it exists) or 15 (if the TN is less than nine digits): otherwise, this attribute is meaningless.

**Attribute:**
dnum9
**Fullname:**
Directory number 9
**Attribute Description:**
If 'dirnmbr' is DBYES, this contains the tenth digit of a directory number (if it exists) or 15 (if the TN is less than ten digits); otherwise, this attribute is meaningless.

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# CV_VECTR

## 1. Description

Call Vector.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| expected number of tuples | 512 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
CV_VECTR    relid = 1251  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     vectnmbr    DMUNS10      (ushort: 10)     <--- key
     vredirect   DMUNS10      (ushort: 10)
 (a) active      DMBOOL       (enum: 1)
 (b) redirect    DMBOOL       (enum: 1)
     step1       DMOACVSTP    (struct)
         cmdcode     DMOACVCMDS   (enum: 5)
         arg2        DMUNS10      (ushort: 10)
         arg1        DMUNS16      (ushort)
         errstp      DMUNS4       (ushort: 4)
         carg1       DMUNS12      (ushort: 12)
         carg2       DMUNS13      (ushort: 13)
         cond        DMOACVCOND   (enum: 3)
     step2       DMOACVSTP    (struct)
         cmdcode     DMOACVCMDS   (enum: 5)
         arg2        DMUNS10      (ushort: 10)
         arg1        DMUNS16      (ushort)
         errstp      DMUNS4       (ushort: 4)
         carg1       DMUNS12      (ushort: 12)
         carg2       DMUNS13      (ushort: 13)
         cond        DMOACVCOND   (enum: 3)
     step3       DMOACVSTP    (struct)
         cmdcode     DMOACVCMDS   (enum: 5)
         arg2        DMUNS10      (ushort: 10)
         arg1        DMUNS16      (ushort)
         errstp      DMUNS4       (ushort: 4)
         carg1       DMUNS12      (ushort: 12)
         carg2       DMUNS13      (ushort: 13)
         cond        DMOACVCOND   (enum: 3)
     step4       DMOACVSTP    (struct)
         cmdcode     DMOACVCMDS   (enum: 5)
         arg2        DMUNS10      (ushort: 10)
         arg1        DMUNS16      (ushort)
         errstp      DMUNS4       (ushort: 4)
         carg1       DMUNS12      (ushort: 12)
         carg2       DMUNS13      (ushort: 13)
         cond        DMOACVCOND   (enum: 3)
```

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```
step5       DMOACVSTP    (struct)
    cmdcode     DMOACVCMDS   (enum: 5)
    arg2        DMUNS10      (ushort: 10)
    arg1        DMUNS16      (ushort)
    errstp      DMUNS4       (ushort: 4)
    carg1       DMUNS12      (ushort: 12)
    carg2       DMUNS13      (ushort: 13)
    cond        DMOACVCOND   (enum: 3)
step6       DMOACVSTP    (struct)
    cmdcode     DMOACVCMDS   (enum: 5)
    arg2        DMUNS10      (ushort: 10)
    arg1        DMUNS16      (ushort)
    errstp      DMUNS4       (ushort: 4)
    carg1       DMUNS12      (ushort: 12)
    carg2       DMUNS13      (ushort: 13)
    cond        DMOACVCOND   (enum: 3)
step7       DMOACVSTP    (struct)
    cmdcode     DMOACVCMDS   (enum: 5)
    arg2        DMUNS10      (ushort: 10)
    arg1        DMUNS16      (ushort)
    errstp      DMUNS4       (ushort: 4)
    carg1       DMUNS12      (ushort: 12)
    carg2       DMUNS13      (ushort: 13)
    cond        DMOACVCOND   (enum: 3)
step8       DMOACVSTP    (struct)
    cmdcode     DMOACVCMDS   (enum: 5)
    arg2        DMUNS10      (ushort: 10)
    arg1        DMUNS16      (ushort)
    errstp      DMUNS4       (ushort: 4)
    carg1       DMUNS12      (ushort: 12)
    carg2       DMUNS13      (ushort: 13)
    cond        DMOACVCOND   (enum: 3)
step9       DMOACVSTP    (struct)
    cmdcode     DMOACVCMDS   (enum: 5)
    arg2        DMUNS10      (ushort: 10)
    arg1        DMUNS16      (ushort)
    errstp      DMUNS4       (ushort: 4)
    carg1       DMUNS12      (ushort: 12)
    carg2       DMUNS13      (ushort: 13)
    cond        DMOACVCOND   (enum: 3)
step10      DMOACVSTP    (struct)
    cmdcode     DMOACVCMDS   (enum: 5)
    arg2        DMUNS10      (ushort: 10)
    arg1        DMUNS16      (ushort)
    errstp      DMUNS4       (ushort: 4)
    carg1       DMUNS12      (ushort: 12)
    carg2       DMUNS13      (ushort: 13)
    cond        DMOACVCOND   (enum: 3)
step11      DMOACVSTP    (struct)
    cmdcode     DMOACVCMDS   (enum: 5)
    arg2        DMUNS10      (ushort: 10)
    arg1        DMUNS16      (ushort)
    errstp      DMUNS4       (ushort: 4)
    carg1       DMUNS12      (ushort: 12)
```

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```
        carg2       DMUNS13      (ushort: 13)
        cond        DMOACVCOND   (enum: 3)
    step12      DMOACVSTP    (struct)
        cmdcode     DMOACVCMDS   (enum: 5)
        arg2        DMUNS10      (ushort: 10)
        arg1        DMUNS16      (ushort)
        errstp      DMUNS4       (ushort: 4)
        carg1       DMUNS12      (ushort: 12)
        carg2       DMUNS13      (ushort: 13)
        cond        DMOACVCOND   (enum: 3)
    step13      DMOACVSTP    (struct)
        cmdcode     DMOACVCMDS   (enum: 5)
        arg2        DMUNS10      (ushort: 10)
        arg1        DMUNS16      (ushort)
        errstp      DMUNS4       (ushort: 4)
        carg1       DMUNS12      (ushort: 12)
        carg2       DMUNS13      (ushort: 13)
        cond        DMOACVCOND   (enum: 3)
    step14      DMOACVSTP    (struct)
        cmdcode     DMOACVCMDS   (enum: 5)
        arg2        DMUNS10      (ushort: 10)
        arg1        DMUNS16      (ushort)
        errstp      DMUNS4       (ushort: 4)
        carg1       DMUNS12      (ushort: 12)
        carg2       DMUNS13      (ushort: 13)
        cond        DMOACVCOND   (enum: 3)
    step15      DMOACVSTP    (struct)
        cmdcode     DMOACVCMDS   (enum: 5)
        arg2        DMUNS10      (ushort: 10)
        arg1        DMUNS16      (ushort)
        errstp      DMUNS4       (ushort: 4)
        carg1       DMUNS12      (ushort: 12)
        carg2       DMUNS13      (ushort: 13)
        cond        DMOACVCOND   (enum: 3)
        User, Compacted and Stored Tuple Layout   CV_VECTR
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                   |           |                   | | |       |
 0 |      vectnmbr     |***********|     vredirect     |a|b|*******|
   |===============+=========== step1 ============+===============|
   |         |                   | |                               |
 4 | cmdcode |        arg2       |*|              arg1             |
   |---------------+---------------+---------------+---------------|
   |       |                       |                           |     |
 8 | errstp|         carg1         |          carg2            | cond|
   |===============+=========== step2 ============+===============|
   |         |                   | |                               |
12 | cmdcode |        arg2       |*|              arg1             |
   |---------------+---------------+---------------+---------------|
   |       |                       |                           |     |
16 | errstp|         carg1         |          carg2            | cond|
   |===============+=========== step3 ============+===============|
   |         |                   | |                               |
```

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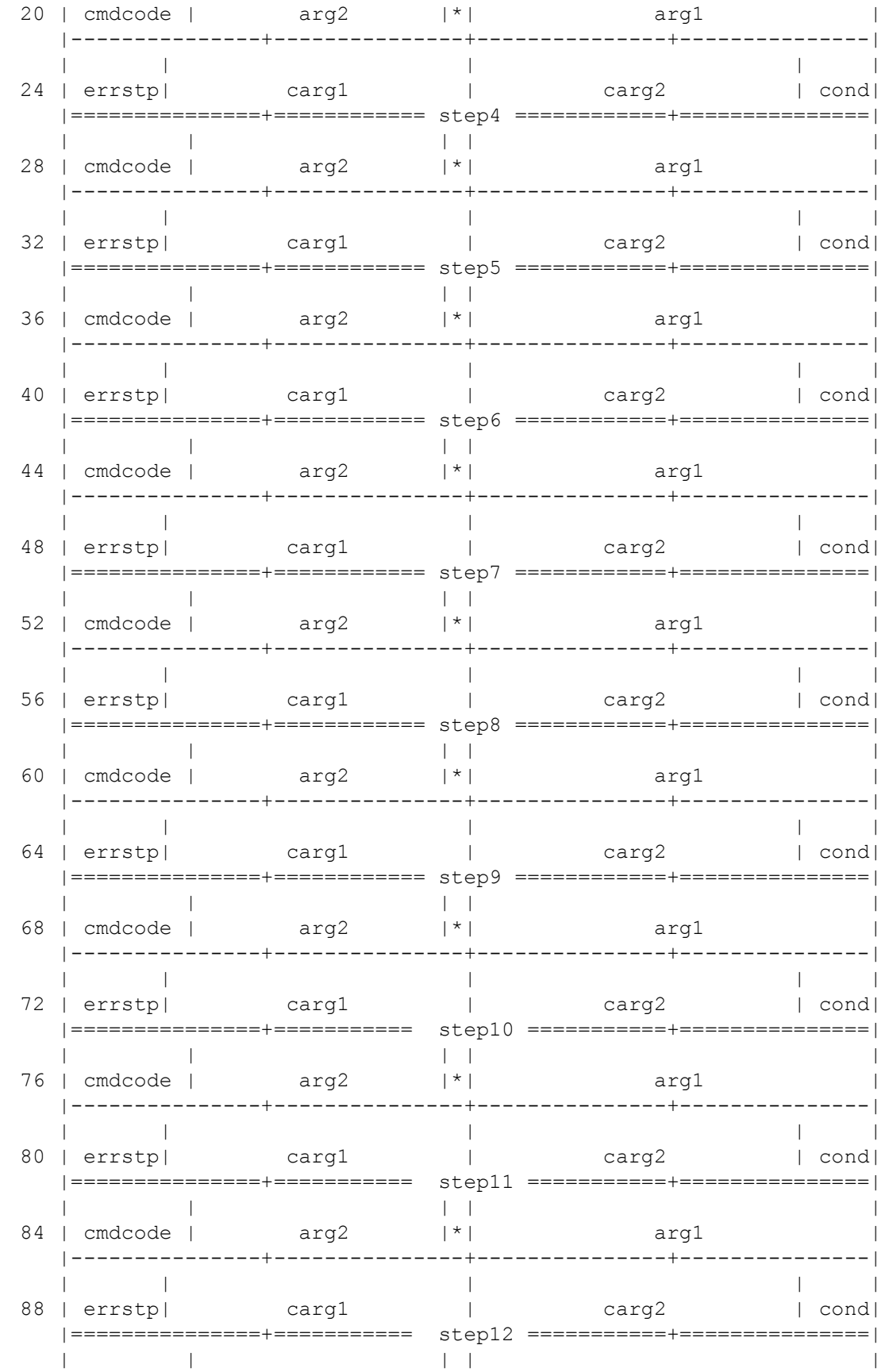


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```
 92 | cmdcode |        arg2       |*|              arg1             |
    |---------+---------+---------+---------+---------+---------|
    |       |                     |                           |     |
 96 | errstp|         carg1       |          carg2            | cond|
    |=========+=========  step13 =========+=========+=========|
    |         |                   | |                           |
100 | cmdcode |        arg2       |*|              arg1             |
    |---------+---------+---------+---------+---------+---------|
    |       |                     |                           |     |
104 | errstp|         carg1       |          carg2            | cond|
    |=========+=========  step14 =========+=========+=========|
    |         |                   | |                           |
108 | cmdcode |        arg2       |*|              arg1             |
    |---------+---------+---------+---------+---------+---------|
    |       |                     |                           |     |
112 | errstp|         carg1       |          carg2            | cond|
    |=========+=========  step15 =========+=========+=========|
    |         |                   | |                           |
116 | cmdcode |        arg2       |*|              arg1             |
    |---------+---------+---------+---------+---------+---------|
    |       |                     |                           |     |
120 | errstp|         carg1       |          carg2            | cond|
    |=========+=========+=========+=========+=========+=========|
      ( 124 bytes )
RLcv_vectr.G
domain alCV_VEC   struct  (5 sub-attributes)
         vectnmbr    .6.fake      (ushort: 10)
         vredirec    .7.fake      (ushort: 10)
 (a)     active      .0fake       (enum)
 (b)     redirect    .0fake       (enum)
         step        .8.fake      (array [ 15 ] of .3fake )
             cmdcode     .1fake       (enum)
             arg2        .0.fake      (ushort: 10)
             arg1        unsigned short (ushort)
             errstp      .1.fake      (ushort: 4)
             carg1       .2.fake      (ushort: 12)
             carg2       .3.fake      (ushort: 13)
             cond        .2fake       (enum)
         Structure Layout      alCV_VEC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------+---------+---------+---------+---------+---------|
    |                   |           |                   | | |       |
  0 |      vectnmbr     |***********|      vredirec     |a|b|*******|
    |=========+=========+========== step[0] ==========+=========|
    |         |                   | |                           |
  4 | cmdcode |        arg2       |*|              arg1             |
    |---------+---------+---------+---------+---------+---------|
    |       |                     |                           |     |
  8 | errstp|         carg1       |          carg2            | cond|
    |=========+=========+========== step[1] ==========+=========|
    |         |                   | |                           |
 12 | cmdcode |        arg2       |*|              arg1             |
    |---------+---------+---------+---------+---------+---------|
```

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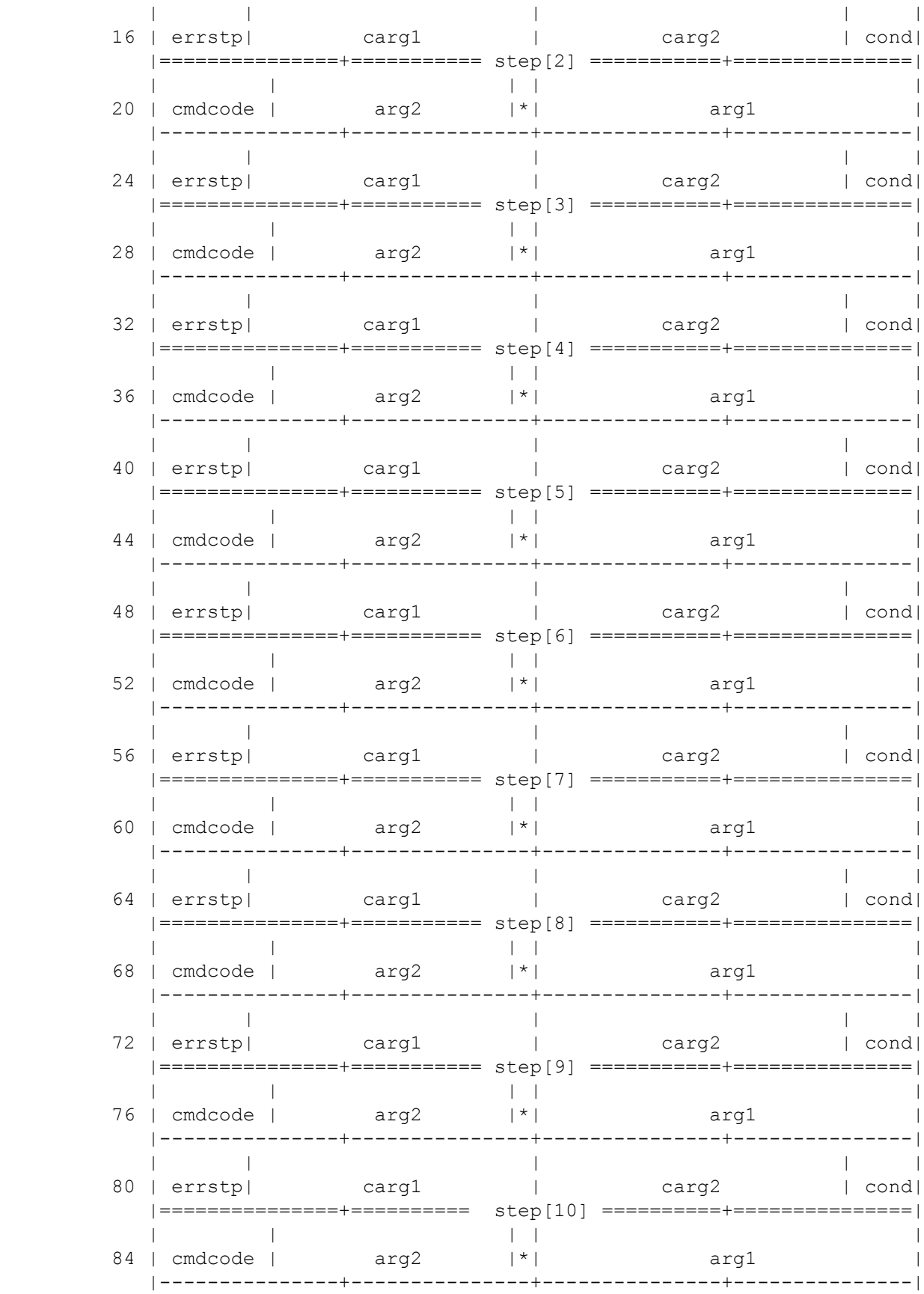


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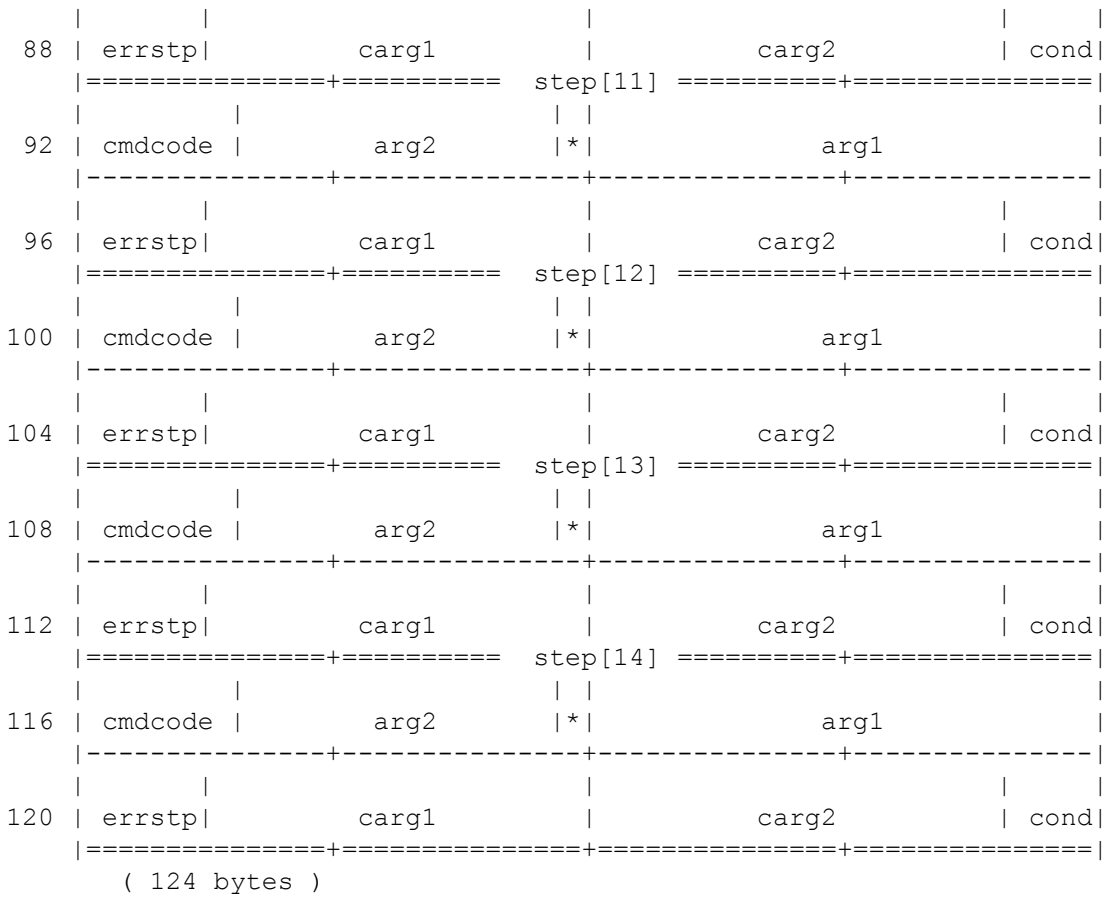


## 4. Population Rules for RLcv_vectr

**Relation Description**

`Call Vectoring Vector definitions`

Each tuple of this relation contains 15 steps defining how a call is to be treated while waiting for a C-ACD agent. As such it forms a sort of program defined in a 'language' specialized for call handling. This 'language' contains such functions as queuing a call, playing announcements, connection to a music source for a specified period and conditional or unconditional branching, to name just a few. Conditional and unconditional GOTOs branching between tuples of RLcv_vectr can be used to produce larger programs.

When a step's cmdcode subattribute is NOOP, there are no constraints on the other subattributes. This provides a way to temporarily disable a vector step without having to reenter the parameters when the step is later reenabled.

**Attribute: vectnmbr**

**Fullname:** vector number minus 1

**Attribute Description** A vector number can be referenced by conditional and unconditional GOTO steps within any of the 1024 vector tuples allowed. It can also be referenced by one or more tuples in RLac_tkct. Vectors are numbered from 1 to 1024. Thus the key value is actually the vector number minus 1.

**Attribute: vredirect**

**Fullname:** Vector to which calls are to be redirected

**Attribute Description** When the 'redirect' attribute is set to DBYES, the 'vredirect' attribute specifies the vector to which calls should be redirected (the value is the vector number minus 1).

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Note that this redirection is NOT recursive. The 'redirect' attribute in the vector to which calls are redirected are ignored. Moreover, the redirection attributes are NOT examined when vector processing branches to another vector using a conditional or unconditional GOTO step.

**Attribute: active**

**Fullname:** Vector Activated

**Attribute Description** This attributes allows a vector to be deactivated. While this attribute is DBNO, all calls arriving on a trunk group or with dialed digits assigned to this vector will instead receive standard treatment (call is placed into a queue according to call type determined, receives one or three announcements depending on the expected delay, and then hears audible ring until an agent answers). This allows the vector to be 'quarantined' while being edited.

**Attribute: redirect**

**Fullname:** Redirection of vector assignment enabling attribute

**Attribute Description** This attribute allows the redirection to another vector. If set to DBYES, new calls that ordinarily would have begun vector processing on this vector will instead be redirected to the vector specified in the 'vredirect' attribute.

**Attribute: step1**

**Fullname:** Step 1 of vector 'program'

**Attribute Description** This attribute defines the first step in this 15-step vector.

**Attribute: step1.cmdcode**

**Fullname:** command code of vector step

**Attribute Description** This subattribute defines the function to be performed by this vector step (such as GOTO, NOOP, RING, ...).

**Attribute: step1.arg2**

**Fullname:** vector step's second command argument

**Attribute Description** This subattribute records 1 of two arguments needed by the various vector step command codes (cmdcode). Its permissible range of values and its meaning is determined by the contents of the cmdcode subattribute.

**Attribute: step1.arg1**

**Fullname:** vector step's first command argument

**Attribute Description** This subattribute records 1 of two arguments needed by the various vector step command codes (cmdcode). Its permissible range of values and its meaning is determined by the contents of the cmdcode subattribute.

**Attribute: step1.errstp**

**Fullname:** Error Treatment Step number

**Attribute Description** Certain vector commands are subject to failure due to a number of reasons (For example, MUSIC can fail to route to a music source port because it is already connected to the maximum number of calls it can support). When such failures occur, vector processing can be diverted to an error treatment by specifying the first vector step of the error treatment in this subattribute.

**Attribute: step1.carg1**

**Fullname:** Conditional GOTO argument 1

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**Attribute Description** This subattribute records 1 of two arguments needed by the various conditional GOTO commands that can be placed in the cmdcode attribute. Its permissible range of values and its meaning is determined by which conditional GOTO command is in the cmdcode subattribute.

**Attribute: step1.carg2**

**Fullname:** Conditional GOTO argument 2

**Attribute Description** This subattribute records 1 of two arguments needed by the various conditional GOTO commands that can be placed in the cmdcode attribute. Its permissible range of values and its meaning is determined by which conditional GOTO command is in the cmdcode subattribute.

**Attribute: step1.cond**

**Fullname:** Conditional test

**Attribute Description** This subattribute is used to specify the condition of a conditional GOTO step. For example, if this subattribute contains a value of OACV_LE, the branch will occur if the parameter being tested (such as number of calls in a queue) is less than or equal to the threshold specified in carg1 and/or carg2.

**Attribute: step2**

**Fullname:** Step 2 of vector 'program'

**Attribute Description** This attribute defines the second vector step

**Attribute: step2.cmdcode**

**Fullname:** command code of vector step

**Attribute Description** Usage is same as for step1.cmdcode subattribute

**Attribute: step2.arg2**

**Fullname:** vector step's second command argument

**Attribute Description** Usage is same as for step1.arg2 subattribute

**Attribute: step2.arg1**

**Fullname:** vector step's first command argument

**Attribute Description** Usage is same as for step1.arg1 subattribute

**Attribute: step2.errstp**

**Fullname:** Error Treatment Step number

**Attribute Description** Usage is same as for step1.errstp subattribute

**Attribute: step2.carg1**

**Fullname:** Conditional GOTO argument 1

**Attribute Description** Usage is same as for step1.carg1 subattribute

**Attribute: step2.carg2**

**Fullname:** Conditional GOTO argument 2

**Attribute Description** Usage is same as for step1.carg2 subattribute

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**Attribute: step2.cond**
**Fullname:** Conditional test

**Attribute Description** Usage is same as for step1.cond subattribute

**Attribute: step3**
**Fullname:** Step 3 of vector 'program'

**Attribute Description** This attribute defines the third vector step

**Attribute: step3.cmdcode**
**Fullname:** command code of vector step

**Attribute Description** Usage is same as for step1.cmdcode subattribute

**Attribute: step3.arg2**
**Fullname:** vector step's second command argument

**Attribute Description** Usage is same as for step1.arg2 subattribute

**Attribute: step3.arg1**
**Fullname:** vector step's first command argument

**Attribute Description** Usage is same as for step1.arg1 subattribute

**Attribute: step3.errstp**
**Fullname:** Error Treatment Step number

**Attribute Description** Usage is same as for step1.errstp subattribute

**Attribute: step3.carg1**
**Fullname:** Conditional GOTO argument 1

**Attribute Description** Usage is same as for step1.carg1 subattribute

**Attribute: step3.carg2**
**Fullname:** Conditional GOTO argument 2

**Attribute Description** Usage is same as for step1.carg2 subattribute

**Attribute: step3.cond**
**Fullname:** Conditional test

**Attribute Description** Usage is same as for step1.cond subattribute

**Attribute: step4**
**Fullname:** Step 4 of vector 'program'

**Attribute Description** This attribute defines the fourth vector step

**Attribute: step4.cmdcode**
**Fullname:** command code of vector step

**Attribute Description** Usage is same as for step1.cmdcode subattribute

**Attribute: step4.arg2**

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**Fullname:** vector step's second command argument

**Attribute Description** Usage is same as for step1.arg2 subattribute

**Attribute: step4.arg1**
**Fullname:** vector step's first command argument

**Attribute Description** Usage is same as for step1.arg1 subattribute

**Attribute: step4.errstp**
**Fullname:** Error Treatment Step number

**Attribute Description** Usage is same as for step1.errstp subattribute

**Attribute: step4.carg1**
**Fullname:** Conditional GOTO argument 1

**Attribute Description** Usage is same as for step1.carg1 subattribute

**Attribute: step4.carg2**
**Fullname:** Conditional GOTO argument 2

**Attribute Description** Usage is same as for step1.carg2 subattribute

**Attribute: step4.cond**
**Fullname:** Conditional test

**Attribute Description** Usage is same as for step1.cond subattribute

**Attribute: step5**
**Fullname:** Step 5 of vector 'program'

**Attribute Description** This attribute defines the fifth vector step

**Attribute: step5.cmdcode**
**Fullname:** command code of vector step

**Attribute Description** Usage is same as for step1.cmdcode subattribute

**Attribute: step5.arg2**
**Fullname:** vector step's second command argument

**Attribute Description** Usage is same as for step1.arg2 subattribute

**Attribute: step5.arg1**
**Fullname:** vector step's first command argument

**Attribute Description** Usage is same as for step1.arg1 subattribute

**Attribute: step5.errstp**
**Fullname:** Error Treatment Step number

**Attribute Description** Usage is same as for step1.errstp subattribute

**Attribute: step5.carg1**
**Fullname:** Conditional GOTO argument 1

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**Attribute Description** Usage is same as for step1.carg1 subattribute

**Attribute: step5.carg2**
**Fullname:** Conditional GOTO argument 2

**Attribute Description** Usage is same as for step1.carg2 subattribute

**Attribute: step5.cond**
**Fullname:** Conditional test

**Attribute Description** Usage is same as for step1.cond subattribute

**Attribute: step6**
**Fullname:** Step 6 of vector 'program'

**Attribute Description** This attribute defines the sixth vector step

**Attribute: step6.cmdcode**
**Fullname:** command code of vector step

**Attribute Description** Usage is same as for step1.cmdcode subattribute

**Attribute: step6.arg2**
**Fullname:** vector step's second command argument

**Attribute Description** Usage is same as for step1.arg2 subattribute

**Attribute: step6.arg1**
**Fullname:** vector step's first command argument

**Attribute Description** Usage is same as for step1.arg1 subattribute

**Attribute: step6.errstp**
**Fullname:** Error Treatment Step number

**Attribute Description** Usage is same as for step1.errstp subattribute

**Attribute: step6.carg1**
**Fullname:** Conditional GOTO argument 1

**Attribute Description** Usage is same as for step1.carg1 subattribute

**Attribute: step6.carg2**
**Fullname:** Conditional GOTO argument 2

**Attribute Description** Usage is same as for step1.carg2 subattribute

**Attribute: step6.cond**
**Fullname:** Conditional test

**Attribute Description** Usage is same as for step1.cond subattribute

**Attribute: step7**
**Fullname:** Step 7 of vector 'program'

**Attribute Description** This attribute defines the seventh vector step

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**Attribute: step7.cmdcode**
**Fullname:** command code of vector step

**Attribute Description** Usage is same as for step1.cmdcode subattribute

**Attribute: step7.arg2**
**Fullname:** vector step's second command argument

**Attribute Description** Usage is same as for step1.arg2 subattribute

**Attribute: step7.arg1**
**Fullname:** vector step's first command argument

**Attribute Description** Usage is same as for step1.arg1 subattribute

**Attribute: step7.errstp**
**Fullname:** Error Treatment Step number

**Attribute Description** Usage is same as for step1.errstp subattribute

**Attribute: step7.carg1**
**Fullname:** Conditional GOTO argument 1

**Attribute Description** Usage is same as for step1.carg1 subattribute

**Attribute: step7.carg2**
**Fullname:** Conditional GOTO argument 2

**Attribute Description** Usage is same as for step1.carg2 subattribute

**Attribute: step7.cond**
**Fullname:** Conditional test

**Attribute Description** Usage is same as for step1.cond subattribute

**Attribute: step8**
**Fullname:** Step 8 of vector 'program'

**Attribute Description** This attribute defines the eighth vector step

**Attribute: step8.cmdcode**
**Fullname:** command code of vector step

**Attribute Description** Usage is same as for step1.cmdcode subattribute

**Attribute: step8.arg2**
**Fullname:** vector step's second command argument

**Attribute Description** Usage is same as for step1.arg2 subattribute

**Attribute: step8.arg1**
**Fullname:** vector step's first command argument

**Attribute Description** Usage is same as for step1.arg1 subattribute

**Attribute: step8.errstp**

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**Fullname:** Error Treatment Step number

**Attribute Description** Usage is same as for step1.errstp subattribute

**Attribute: step8.carg1**
**Fullname:** Conditional GOTO argument 1

**Attribute Description** Usage is same as for step1.carg1 subattribute

**Attribute: step8.carg2**
**Fullname:** Conditional GOTO argument 2

**Attribute Description** Usage is same as for step1.carg2 subattribute

**Attribute: step8.cond**
**Fullname:** Conditional test

**Attribute Description** Usage is same as for step1.cond subattribute

**Attribute: step9**
**Fullname:** Step 9 of vector 'program'

**Attribute Description** This attribute defines the ninth vector step

**Attribute: step9.cmdcode**
**Fullname:** command code of vector step

**Attribute Description** Usage is same as for step1.cmdcode subattribute

**Attribute: step9.arg2**
**Fullname:** vector step's second command argument

**Attribute Description** Usage is same as for step1.arg2 subattribute

**Attribute: step9.arg1**
**Fullname:** vector step's first command argument

**Attribute Description** Usage is same as for step1.arg1 subattribute

**Attribute: step9.errstp**
**Fullname:** Error Treatment Step number

**Attribute Description** Usage is same as for step1.errstp subattribute

**Attribute: step9.carg1**
**Fullname:** Conditional GOTO argument 1

**Attribute Description** Usage is same as for step1.carg1 subattribute

**Attribute: step9.carg2**
**Fullname:** Conditional GOTO argument 2

**Attribute Description** Usage is same as for step1.carg2 subattribute

**Attribute: step9.cond**
**Fullname:** Conditional test

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**Attribute Description** Usage is same as for step1.cond subattribute

**Attribute: step10**
**Fullname:** Step 10 of vector 'program'

**Attribute Description** This attribute defines the tenth vector step

**Attribute: step10.cmdcode**
**Fullname:** command code of vector step

**Attribute Description** Usage is same as for step1.cmdcode subattribute

**Attribute: step10.arg2**
**Fullname:** vector step's second command argument

**Attribute Description** Usage is same as for step1.arg2 subattribute

**Attribute: step10.arg1**
**Fullname:** vector step's first command argument

**Attribute Description** Usage is same as for step1.arg1 subattribute

**Attribute: step10.errstp**
**Fullname:** Error Treatment Step number

**Attribute Description** Usage is same as for step1.errstp subattribute

**Attribute: step10.carg1**
**Fullname:** Conditional GOTO argument 1

**Attribute Description** Usage is same as for step1.carg1 subattribute

**Attribute: step10.carg2**
**Fullname:** Conditional GOTO argument 2

**Attribute Description** Usage is same as for step1.carg2 subattribute

**Attribute: step10.cond**
**Fullname:** Conditional test

**Attribute Description** Usage is same as for step1.cond subattribute

**Attribute: step11**
**Fullname:** Step 11 of vector 'program'

**Attribute Description** This attribute defines the eleventh vector step

**Attribute: step11.cmdcode**
**Fullname:** command code of vector step

**Attribute Description** Usage is same as for step1.cmdcode subattribute

**Attribute: step11.arg2**
**Fullname:** vector step's second command argument

**Attribute Description** Usage is same as for step1.arg2 subattribute

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**Attribute: step11.arg1**
**Fullname:** vector step's first command argument

**Attribute Description** Usage is same as for step1.arg1 subattribute

**Attribute: step11.errstp**
**Fullname:** Error Treatment Step number

**Attribute Description** Usage is same as for step1.errstp subattribute

**Attribute: step11.carg1**
**Fullname:** Conditional GOTO argument 1

**Attribute Description** Usage is same as for step1.carg1 subattribute

**Attribute: step11.carg2**
**Fullname:** Conditional GOTO argument 2

**Attribute Description** Usage is same as for step1.carg2 subattribute

**Attribute: step11.cond**
**Fullname:** Conditional test

**Attribute Description** Usage is same as for step1.cond subattribute

**Attribute: step12**
**Fullname:** Step 12 of vector 'program'

**Attribute Description** This attribute defines the twelfth vector step

**Attribute: step12.cmdcode**
**Fullname:** command code of vector step

**Attribute Description** Usage is same as for step1.cmdcode subattribute

**Attribute: step12.arg2**
**Fullname:** vector step's second command argument

**Attribute Description** Usage is same as for step1.arg2 subattribute

**Attribute: step12.arg1**
**Fullname:** vector step's first command argument

**Attribute Description** Usage is same as for step1.arg1 subattribute

**Attribute: step12.errstp**
**Fullname:** Error Treatment Step number

**Attribute Description** Usage is same as for step1.errstp subattribute

**Attribute: step12.carg1**
**Fullname:** Conditional GOTO argument 1

**Attribute Description** Usage is same as for step1.carg1 subattribute

**Attribute: step12.carg2**

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**Fullname:** Conditional GOTO argument 2

**Attribute Description** Usage is same as for step1.carg2 subattribute

**Attribute: step12.cond**
**Fullname:** Conditional test

**Attribute Description** Usage is same as for step1.cond subattribute

**Attribute: step13**
**Fullname:** Step 13 of vector 'program'

**Attribute Description** This attribute defines the thirteenth vector step

**Attribute: step13.cmdcode**
**Fullname:** command code of vector step

**Attribute Description** Usage is same as for step1.cmdcode subattribute

**Attribute: step13.arg2**
**Fullname:** vector step's second command argument

**Attribute Description** Usage is same as for step1.arg2 subattribute

**Attribute: step13.arg1**
**Fullname:** vector step's first command argument

**Attribute Description** Usage is same as for step1.arg1 subattribute

**Attribute: step13.errstp**
**Fullname:** Error Treatment Step number

**Attribute Description** Usage is same as for step1.errstp subattribute

**Attribute: step13.carg1**
**Fullname:** Conditional GOTO argument 1

**Attribute Description** Usage is same as for step1.carg1 subattribute

**Attribute: step13.carg2**
**Fullname:** Conditional GOTO argument 2

**Attribute Description** Usage is same as for step1.carg2 subattribute

**Attribute: step13.cond**
**Fullname:** Conditional test

**Attribute Description** Usage is same as for step1.cond subattribute

**Attribute: step14**
**Fullname:** Step 14 of vector 'program'

**Attribute Description** This attribute defines the fourteenth vector step

**Attribute: step14.cmdcode**
**Fullname:** command code of vector step

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**Attribute Description** Usage is same as for step1.cmdcode subattribute

**Attribute: step14.arg2**
**Fullname:** vector step's second command argument

**Attribute Description** Usage is same as for step1.arg2 subattribute

**Attribute: step14.arg1**
**Fullname:** vector step's first command argument

**Attribute Description** Usage is same as for step1.arg1 subattribute

**Attribute: step14.errstp**
**Fullname:** Error Treatment Step number

**Attribute Description** Usage is same as for step1.errstp subattribute

**Attribute: step14.carg1**
**Fullname:** Conditional GOTO argument 1

**Attribute Description** Usage is same as for step1.carg1 subattribute

**Attribute: step14.carg2**
**Fullname:** Conditional GOTO argument 2

**Attribute Description** Usage is same as for step1.carg2 subattribute

**Attribute: step14.cond**
**Fullname:** Conditional test

**Attribute Description** Usage is same as for step1.cond subattribute

**Attribute: step15**
**Fullname:** Step 15 of vector 'program'

**Attribute Description** This attribute defines the fifteenth vector step

**Attribute: step15.cmdcode**
**Fullname:** command code of vector step

**Attribute Description** Usage is same as for step1.cmdcode subattribute

**Attribute: step15.arg2**
**Fullname:** vector step's second command argument

**Attribute Description** Usage is same as for step1.arg2 subattribute

**Attribute: step15.arg1**
**Fullname:** vector step's first command argument

**Attribute Description** Usage is same as for step1.arg1 subattribute

**Attribute: step15.errstp**
**Fullname:** Error Treatment Step number

**Attribute Description** Usage is same as for step1.errstp subattribute

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**Attribute: step15.carg1**

**Fullname:** Conditional GOTO argument 1

**Attribute Description** Usage is same as for step1.carg1 subattribute

**Attribute: step15.carg2**

**Fullname:** Conditional GOTO argument 2

**Attribute Description** Usage is same as for step1.carg2 subattribute

**Attribute: step15.cond**

**Fullname:** Conditional test

**Attribute Description** Usage is same as for step1.cond subattribute

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# CW_CF

## 1. Description

This relation contains the call waiting constructed feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head page size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| ks key store | DBNO |

## 3. Field Layout

```
CW_CF       relid = 452   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     feat_id     DMMCC_FID    (ushort) <--- key, not stored
     mw_cfid     DMMCC_FID    (ushort)
     fwd_cfid    DMMCC_FID    (ushort)
     cgp_ind     DMCW_OIND    (enum: 4)
 (a) typinv      DMCW_INVOK   (enum: 3)
 (b) chg_tn_int  DMBOOL       (enum: 1)
 (c) cdp_tone    DMMC_TONE    (enum: 3)
 (d) dep_tone    DMMC_TONE    (enum: 3)
 (e) control     DMCW_CNTRL   (enum: 2)
     actvn       DMMC_ACTYP   (enum: 3)
 (f) cp_bill     DMCW_CBILL   (enum: 2)
 (g) tout_actn   DMCW_TOACT   (enum: 2)
 (h) chg_to      DMBOOL       (enum: 1)
 (i) dctvn       DMMC_DCTYP   (enum: 2)
 (j) cwdeluxe    DMBOOL       (enum: 1)
 (k) ffcf1       DMBOOL       (enum: 1)
 (l) ffcf2       DMBOOL       (enum: 1)
 (m) ffcf3       DMBOOL       (enum: 1)
     filter      DMMCCLFLTR   (struct)
 (n)     intratg     DMBOOL       (enum: 1)
 (o)     intraoff    DMBOOL       (enum: 1)
 (p)     interoff    DMBOOL       (enum: 1)
 (q)     pf          DMBOOL       (enum: 1)
 (r)     attndnt     DMBOOL       (enum: 1)
     bill_typ    DMMC_BILL    (struct)
 (s)     flat        DMBOOL       (enum: 1)
 (t)     usefreq1    DMBOOL       (enum: 1)
 (u)     usefreq2    DMBOOL       (enum: 1)
 (v)     usefreq3    DMBOOL       (enum: 1)
 (w)     usefreq4    DMBOOL       (enum: 1)
 (x)     actchrg     DMBOOL       (enum: 1)
 (y)     dactchrg    DMBOOL       (enum: 1)
 (z)     duration    DMBOOL       (enum: 1)
 (A)     change      DMBOOL       (enum: 1)
         User and Compacted Tuple Layout  CW_CF
```

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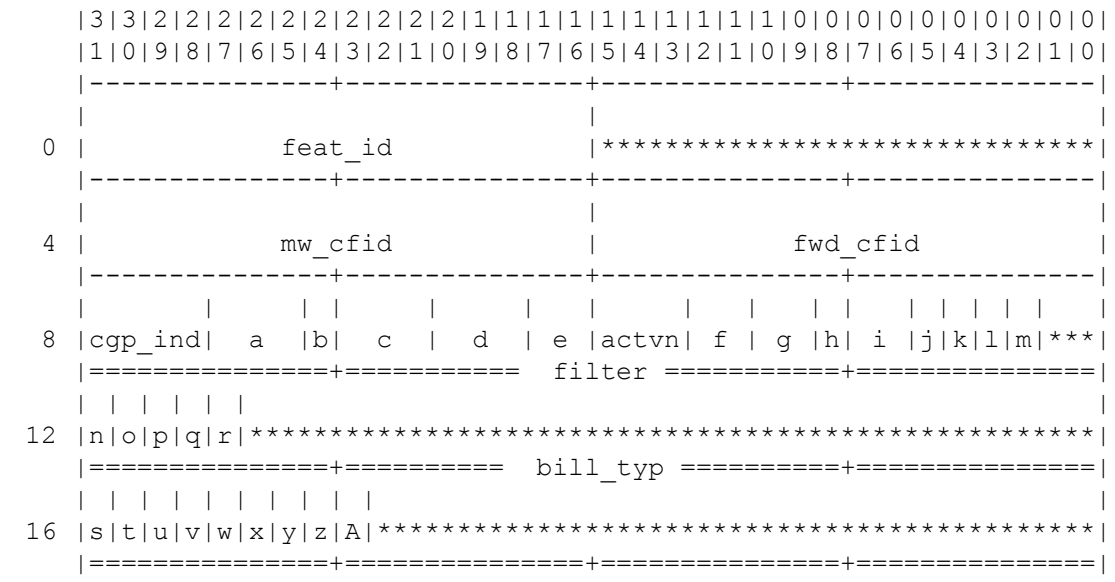
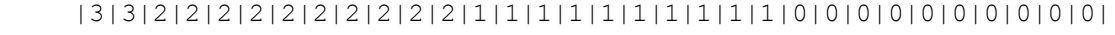



( 20 bytes )

| | | | |
|---|---|---|---|
| | mw_cfid | DMMCC_FID | (ushort) |
| | fwd_cfid | DMMCC_FID | (ushort) |
| | cgp_ind | DMCW_OIND | (enum: 4) |
| (a) | typinv | DMCW_INVOK | (enum: 3) |
| (b) | chg_tn_int | DMBOOL | (enum: 1) |
| (c) | cdp_tone | DMMC_TONE | (enum: 3) |
| (d) | dep_tone | DMMC_TONE | (enum: 3) |
| (e) | control | DMCW_CNTRL | (enum: 2) |
| | actvn | DMMC_ACTYP | (enum: 3) |
| (f) | cp_bill | DMCW_CBILL | (enum: 2) |
| (g) | tout_actn | DMCW_TOACT | (enum: 2) |
| (h) | chg_to | DMBOOL | (enum: 1) |
| (i) | dctvn | DMMC_DCTYP | (enum: 2) |
| (j) | cwdeluxe | DMBOOL | (enum: 1) |
| (k) | ffcf1 | DMBOOL | (enum: 1) |
| (l) | ffcf2 | DMBOOL | (enum: 1) |
| (m) | ffcf3 | DMBOOL | (enum: 1) |
| | filter | DMMCCLFLTR | (struct) |
| (n) | intratg | DMBOOL | (enum: 1) |
| (o) | intraoff | DMBOOL | (enum: 1) |
| (p) | interoff | DMBOOL | (enum: 1) |
| (q) | pf | DMBOOL | (enum: 1) |
| (r) | attndnt | DMBOOL | (enum: 1) |
| | bill_typ | DMMC_BILL | (struct) |
| (s) | flat | DMBOOL | (enum: 1) |
| (t) | usefreq1 | DMBOOL | (enum: 1) |
| (u) | usefreq2 | DMBOOL | (enum: 1) |
| (v) | usefreq3 | DMBOOL | (enum: 1) |
| (w) | usefreq4 | DMBOOL | (enum: 1) |
| (x) | actchrg | DMBOOL | (enum: 1) |
| (y) | dactchrg | DMBOOL | (enum: 1) |
| (z) | duration | DMBOOL | (enum: 1) |
| (A) | change | DMBOOL | (enum: 1) |

Stored Tuple Layout CW_CF

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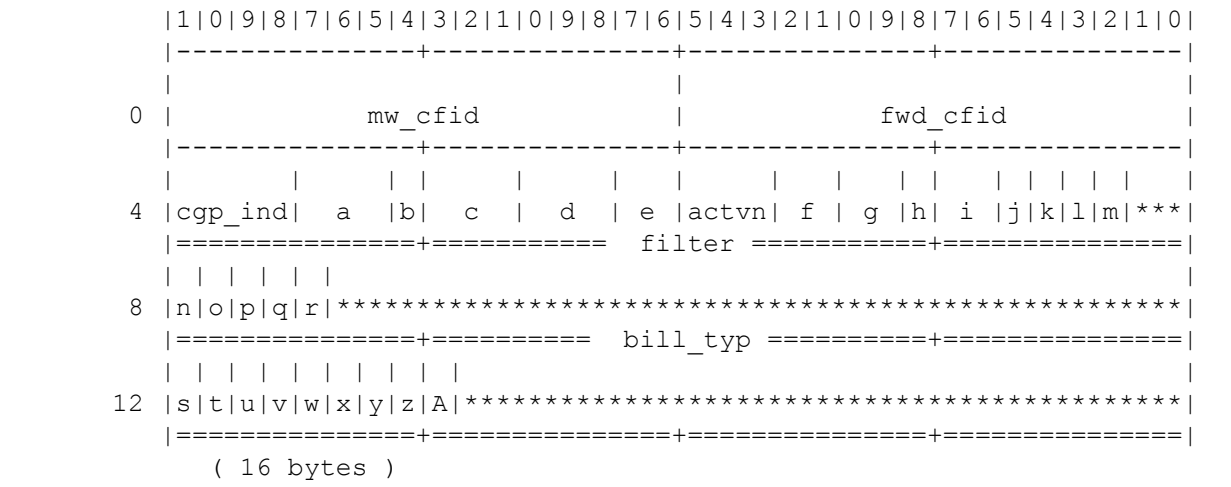


## 4. Population rules for RLcw_cf

### Relation Description

call waiting constructed feature
call waiting constructed feature information

**Attribute:**
feat_id
**Fullname:**
call waiting constructed feature id
**Attribute Description:**
Verify that RLfacname has a tuple such that feat_id = RLfacname.facid, and RLfacname.class = FACBRCS for that tuple.

**Attribute:**
filter
**Fullname:**
party filtering for called, calling party
**Attribute Description:**
party filting for called, calling party

**Attribute:**
filter.intratg
**Fullname:**
intratg
**Attribute Description:**
intratg

**Attribute:**
filter.intraoff
**Fullname:**
intraoff
**Attribute Description:**
intraoff

**Attribute:**
filter.interoff

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**Fullname:**
interoff
**Attribute Description:**
interoff

**Attribute:**
filter.pf
**Fullname:**
pf
**Attribute Description:**
pf

**Attribute:**
filter.attndnt
**Fullname:**
attndnt
**Attribute Description:**
attndnt

**Attribute:**
mw_cfid
**Fullname:**
constructed feature id of multiway feature to which this call waiting feature can bridge
**Attribute Description:**
If the mw_cfid > 0, the following must be true:
1) Verify its existence in the FAC relations.
2) RLmwcfdfl.feat_id = RLcw_cf.mw_cfid.
3) RLmwcfdfl.epfr_cw = DBYES
4) RLmwcfdfl.ah_tg_fl = RLcw_cf.filter.intratg
5) RLmwcfdfl.ah_intrafl = RLcw_cf.filter.intraoff
6) RLmwcfdfl.ah_interfl = RLcw_cf.filter.interoff
7) RLmwcfdfl.ah_pf_fl = RLcw_cf.filter.pf
8) RLmwcfdfl.ah_attfl = RLcw_cf.filter.attndnt
9) RLmwcfdfl.oh_tg_fl = DBYES
10) RLmwcfdfl.oh_intrafl = DBYES
11) RLmwcfdfl.oh_interfl = DBYES
12) RLmwcfdfl.oh_pf_fl = DBYES
13) RLmwcfdfl.oh_attfl = DBYES

**Attribute:**
fwd_cfid
**Fullname:**
constructed feature of call forwarding feature to which this call waiting feature can bridge
**Attribute Description:**
If set to > 0, verify existence of tuple in RLcf_opts for this key feat_id value.

**Attribute:**
bill_typ
**Fullname:**
billing type

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**Attribute Description:**
If flat == DBYES, all other subattributes = DBNO.
If flat == DBNO, RLcw_cf.actvn = ACTCD.
If one or more subattributes other than flat
== DBYES, flat shall be = DBNO.

**Attribute:**
bill_typ.flat
**Fullname:**
flat
**Attribute Description:**
flat

**Attribute:**
bill_typ.usefreq1
**Fullname:**
usefreq1
**Attribute Description:**
usefreq1

**Attribute:**
bill_typ.usefreq2
**Fullname:**
userfreq2
**Attribute Description:**
usefreq2

**Attribute:**
bill_typ.usefreq3
**Fullname:**
usefreq3
**Attribute Description:**
usefreq3

**Attribute:**
bill_typ.usefreq4
**Fullname:**
usefreq4
**Attribute Description:**
usefreq4

**Attribute:**
bill_typ.actchrg
**Fullname:**
actchrg
**Attribute Description:**
actchrg

**Attribute:**
bill_typ.dactchrg
**Fullname:**
dactchrg
**Attribute Description:**

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dactchrg

**Attribute:**
bill_typ.duration
**Fullname:**
duration
**Attribute Description:**
duration

**Attribute:**
bill_typ.change
**Fullname:**
change
**Attribute Description:**
change

**Attribute:**
typinv
**Fullname:**
type of invocation
**Attribute Description:**

| Attribute Value | Dependency |
|---|---|
| CWIN_IORG or CWIN_IDIAL | 1) RLcw_cf.filter.intratg = DBYES<br>2) RLcw_cf.filter.intraoff = DBNO<br>3) RLcw_cf.filter.interoff = DBNO<br>4) RLcw_cf.filter.pf = DBNO<br>5) Since 2 features with identical invocations and overlapping party filterings cannot be assigned to the same line, there can only be one of each CW feature with this particular invocation.<br>6) RLcw_cf.cdp_tn_intvl = 10<br>7) RLcw_cf.chg_tn_int = DBNO |
| CWIN_ITERM | This feature cannot be assigned if RLfc_porttyp.servclass = FC_ISDN or RLfc_porttyp.servclass = FC_ISATND. |

**Attribute:**
cgp_ind
**Fullname:**
calling party indicator
**Attribute Description:**
NOTE: for 5e4_2q the OSILENCE enumeration returns a 'beep' followed by 'silence' instead of 'busy' when selected as the value for the 'cgp_ind' feature option. For 5E7_1J, cgp_ind cannot be equal to OMUSIC for constructed features unless the Music On Hold Special Feature (SFID 064 is set) has been purchased for the office.

**Attribute:**
cdp_tone
**Fullname:**
calling party indicator tone

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**Attribute Description:**
If tone is TNBEEP1,TNBEEP2 or TNBEEP3, tone repetition interval X must be specified in RLcw_port.cdp_tn_intvl

**Attribute:**
dep_tone
**Fullname:**
party departure indicator tone
**Attribute Description:**
TN_NONE is the only value allowed in 5e2_1

**Attribute:**
control
**Fullname:**
control action that can be taken by terminating party
**Attribute Description:**
If RLcw_cf.control == CW_CFLASH, then RLcw_cf.mw_cfid > 0.

**Attribute:**
cp_bill
**Fullname:**
CW feature calling party billing
**Attribute Description:**
call forwarding feature calling party billing

**Attribute:**
tout_actn
**Fullname:**
action to be taken on timeout
**Attribute Description:**
If set to TOT_FWD, RLcw_cf.fwd_cfid > 0.

**Attribute:**
actvn
**Fullname:**
feature activation type
**Attribute Description:**

| Enum. value | Dependency |
|---|---|
| ACTNONE | 1) RLcw_cf.dctvn = DCTNONE or DCTCD |
| | 2) RLcw_cf.bill_typ.flat = DBYES |
| ACTCD | 1) RLcw_cf.dctvn = DCTAUTO or DCTCD |
| | 2) Verify tuple exists in dial tree RLdaprlfnl or RLidp_dtre with 'action' attribute = ACN_FTACT for |

**Attribute:**
dctvn
**Fullname:**
feature deactivation type
**Attribute Description:**

| Enum. value | Dependency |
|---|---|
| DCTNONE | 1) RLcw_cf.actvn = ACTNONE |
| DCTAUTO | 1) RLcw_cf.actvn = ACTCD |

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```
          DCTCD       1) RLcw_cf.actvn = ACTCD or ACTNONE
                      2) Verify tuple exists in dial tree
                         RLdaprlfnl or RLidp_dtre with
                         'action' attribute = ACN_FTDCT for
```

**Attribute:**
chg_to
**Fullname:**
indicates if customer change of time-out is allowed
**Attribute Description:**
indicates if customer can change the time (in seconds) after which a waiting call is forwarded

**Attribute:**
chg_tn_int
**Fullname:**
indicates if customer change of called party tone interval is allowed
**Attribute Description:**
indicating if custom change of called party tone interval is allowed.

**Attribute:**
cwdeluxe
**Fullname:**
Call Waiting Deluxe
**Attribute Description:**
The cwdeluxe field is used by Call Waiting Deluxe (CWD) Phase I Special Feature in 5e10.1 SR. It will be used to indicate the CWD option for the Call Waiting Terminating feature. The default value is DBNO. In 5e9.1 and 5e9.2 Software Updates (SUs), a ffcf1 spare was used for this Feature. The default value is DBNO.
The CWD feature is allowed only on lines with service class of INDIV, or PBX.
The CWD feature is now allowed on LTSB lines if SFID 280 is turned on in 5E13 BMI and later releases.
It is not allowed on a ISDN, MLHG, 4WINDIV, ATTENDANT, Remote Call Forwarding, Coin, Denied Terminating, Denied Originating, Shared DNs, Two-party, and Multiparty lines. The cwdeluxe cannot be DBYES unless office has SFID145 set Y (that is, the CWD feature is purchased).

**Attribute:**
ffcf2
**Fullname:**
reserved for future field feature
**Attribute Description:**
not applicable

**Attribute:**
ffcf3
**Fullname:**
reserved for future field feature
**Attribute Description:**

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not applicable

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# CW_OPTS

## 1. Description

This relation contains the feature definition's options and defaults.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| ks key store | DBNO |

## 3. Field Layout

```
CW_OPTS     relid = 472   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP


    feat_id     DMMCC_FID    (ushort)  <--- key
    mw_cfid     DMMCC_FID    (ushort)
    fwd_cfid    DMMCC_FID    (ushort)
    time_fwd    DMUNS8       (ushort: 8)
(a) cgp_tn_intvl  DMMC_XTONE   (ushort: 6)
(b) dctvn       DMMC_DCTYP   (enum: 2)
(c) cdp_tn_intvl  DMMC_XTONE   (ushort: 6)
(d) dep_tn_intvl  DMMC_XTONE   (ushort: 6)
    cgp_ind     DMCW_OIND    (enum: 4)
    bill_aft_x  DMMC_TBILL   (ushort: 6)
(e) tout_actn   DMCW_TOACT   (enum: 2)
(f) typinv      DMCW_INVOK   (enum: 3)
(g) cdp_tone    DMMC_TONE    (enum: 3)
(h) control     DMCW_CNTRL   (enum: 2)
(i) dep_tone    DMMC_TONE    (enum: 3)
    actvn       DMMC_ACTYP   (enum: 3)
(j) cp_bill     DMCW_CBILL   (enum: 2)
(k) alert_type  DMCWDALERT   (enum: 3)
(l) cwd_dflt    DMCWDOPT     (enum: 3)
(m) cwd_usgsens  DMCWDCONF    (enum: 2)
(n) ldst_cw     DMCW_LDC     (enum: 2)
(o) chg_to      DMBOOL       (enum: 1)
(p) chg_tn_int  DMBOOL       (enum: 1)
(q) cwdeluxe    DMBOOL       (enum: 1)
(r) ffcf1       DMBOOL       (enum: 1)
(s) ffcf2       DMBOOL       (enum: 1)
(t) ffcf3       DMBOOL       (enum: 1)
(u) tcw         DMBOOL       (enum: 1)
    filter      DMMCCLFLTR   (struct)
(v)     intratg     DMBOOL       (enum: 1)
(w)     intraoff    DMBOOL       (enum: 1)
(x)     interoff    DMBOOL       (enum: 1)
```

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```
 (y)     pf          DMBOOL       (enum: 1)
 (z)     attndnt     DMBOOL       (enum: 1)
    bill_typ    DMMC_BILL    (struct)
 (A)     flat        DMBOOL       (enum: 1)
 (B)     usefreq1    DMBOOL       (enum: 1)
 (C)     usefreq2    DMBOOL       (enum: 1)
 (D)     usefreq3    DMBOOL       (enum: 1)
 (E)     usefreq4    DMBOOL       (enum: 1)
 (F)     actchrg     DMBOOL       (enum: 1)
 (G)     dactchrg    DMBOOL       (enum: 1)
 (H)     duration    DMBOOL       (enum: 1)
 (I)     change      DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout    CW_OPTS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            feat_id            |            mw_cfid            |
    |---------------+---------------+---------------+---------------|
    |                               |               |           |   |
  4 |            fwd_cfid           |    time_fwd   |     a     | b |
    |---------------+---------------+---------------+---------------|
    |           |           |       |           |   |     |     |   |
  8 |     c     |     d     |cgp_ind| bill_aft_x| e |  f  |  g  | h |
    |---------------+---------------+---------------+---------------|
    |     |     |   |     |     |   |   | | | | | | | |             |
 12 |  i  |actvn| j |  k  |  l  | m | n |o|p|q|r|s|t|u|*************|
    |===============+===========  filter ===========+===============|
    | | | | | |                                                     |
 16 |v|w|x|y|z|*****************************************************|
    |===============+==========  bill_typ ==========+===============|
    | | | | | | | | |                                               |
 20 |A|B|C|D|E|F|G|H|I|*********************************************|
    |===============+===============+===============+===============|
       ( 24 bytes )
```

## 4. Population rules for RLcw_opts

### Relation Description

Call Waiting options

Call Waiting feature definition's options and defaults.

**Attribute:**

feat_id

**Fullname:**

Feature ID

**Attribute Description:**

Call Waiting constructed feature ID.

**Attribute:**

filter

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**Fullname:**
Party filter
**Attribute Description:**
Party filtering for called, calling party. This is not a directory number filter.

**Attribute:**
filter.intratg
**Fullname:**
Intra-terminal group
**Attribute Description:**
Intra-terminal group.
A value of DBYES indicates PASS (no filtering).

**Attribute:**
filter.intraoff
**Fullname:**
Intra-office
**Attribute Description:**
Intra-office

**Attribute:**
filter.interoff
**Fullname:**
Inter-office
**Attribute Description:**
Inter-office

**Attribute:**
filter.pf
**Fullname:**
Private facility
**Attribute Description:**
Private facility

**Attribute:**
filter.attndnt
**Fullname:**
Attendant
**Attribute Description:**
Attendant

**Attribute:**
mw_cfid
**Fullname:**
Multiway constructed feature ID
**Attribute Description:**

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Constructed feature ID of a multiway feature to which this call waiting feature can bridge. The default value 0 indicates no bridging.

**Attribute:**
fwd_cfid
**Fullname:**
Call forwarding constructed feature ID
**Attribute Description:**
Constructed feature ID of a call forwarding feature to which this call waiting feature can bridge. The default value 0 indicates no bridging.

**Attribute:**
bill_typ
**Fullname:**
Billing type
**Attribute Description:**
Usage billing type. This is a boolean structure indicating the combination of several types of billing. In each case a DBYES indicates that type of billing is applicable and DBNO indicates that it is not.

**Attribute:**
bill_typ.flat
**Fullname:**
Flat rate
**Attribute Description:**
Flat rate - no usage sensitive charge.

**Attribute:**
bill_typ.usefreq1
**Fullname:**
Usage frequency 1
**Attribute Description:**
Usage frequency charge for use of `event' 1.

**Attribute:**
bill_typ.usefreq2
**Fullname:**
Usage frequency 2
**Attribute Description:**
Usage frequency charge for use of `event' 2.

**Attribute:**
bill_typ.usefreq3
**Fullname:**

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Usage frequency 3
**Attribute Description:**
Usage frequency charge for use of `event' 3.

**Attribute:**
bill_typ.usefreq4
**Fullname:**
Usage frequency 4
**Attribute Description:**
Usage frequency charge for use of `event' 4.

**Attribute:**
bill_typ.actchrg
**Fullname:**
Activation charge
**Attribute Description:**
Usage charge for activation.

**Attribute:**
bill_typ.dactchrg
**Fullname:**
Deactivation charge
**Attribute Description:**
Usage charge for deactivation.

**Attribute:**
bill_typ.duration
**Fullname:**
Duration
**Attribute Description:**
Usage charge for duration of use.

**Attribute:**
bill_typ.change
**Fullname:**
Change
**Attribute Description:**
Usage charge for change of parameter.

**Attribute:**
typinv
**Fullname:**
Type of invocation
**Attribute Description:**
Type of invocation. Since 2 features with identical invocations and overlapping party filterings cannot be assigned to the same line, there can only be one of each CW feature with this

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particular invocation. typinv cannot be set to CWIN_ITERM for servclass FC_ISDN or FC_ISATND.

**Attribute:**
cgp_ind
**Fullname:**
Calling party indicator
**Attribute Description:**
Calling party indicator - includes tones.
cpg_ind cannot be equal to OMUSIC for constructed features unless the Music On Hold Special Feature (SFID 064 is set) has been purchased for the office.

**Attribute:**
cdp_tone
**Fullname:**
Called party tone
**Attribute Description:**
Called party indicator tone.

**Attribute:**
dep_tone
**Fullname:**
Departure tone
**Attribute Description:**
Party departure indicator tone.

**Attribute:**
control
**Fullname:**
Control
**Attribute Description:**
Control action that can be taken by departing party.

**Attribute:**
cp_bill
**Fullname:**
Calling party billing
**Attribute Description:**
Call Waiting feature calling party billing.

**Attribute:**
tout_actn
**Fullname:**
Time out action
**Attribute Description:**
Action to be taken (treatment) after a set time during which

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a call has been waiting.

**Attribute:**
actvn
**Fullname:**
Activation
**Attribute Description:**
Indicates method of activating MFC features.

*** ODA ONLY WARNING ***
***(NOT SUPPORTED BY RC)***
Verify tuple exists in dial tree RLdaprlfnl or RLidp_dtre with 'action' attribute = ACN_FTACT for the given dial code.

**Attribute:**
dctvn
**Fullname:**
Deactivation
**Attribute Description:**
Indicates method of deactivating MFC features.

*** ODA ONLY WARNING ***
***(NOT SUPPORTED BY RC)***
Verify tuple exists in dial tree RLdaprlfnl or RLidp_dtre with 'action' attribute = ACN_FTDCT for the given dial code.

**Attribute:**
chg_to
**Fullname:**
Change time out
**Attribute Description:**
Indicates if the customer is allowed to change the time after which a waiting call is forwarded.

**Attribute:**
chg_tn_int
**Fullname:**
Change tone interval
**Attribute Description:**
This attribute indicates if the customer can change the time of the called party tone interval.

**Attribute:**
cgp_tn_intvl
**Fullname:**
Calling party tone interval
**Attribute Description:**
The calling party tone repetition interval X in seconds.

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A value of 0 indicates no repetition.

**Attribute:**
cdp_tn_intvl
**Fullname:**
Called party tone interval
**Attribute Description:**
The called party tone repetition interval X in seconds.
A value of 0 indicates no repetition.

**Attribute:**
dep_tn_intvl
**Fullname:**
Departure tone interval
**Attribute Description:**
The party departure tone repetition interval X in seconds.
A value of 0 indicates no repetition.

**Attribute:**
bill_aft_x
**Fullname:**
Bill after X
**Attribute Description:**
The time after which to bill the calling party in (X) seconds

**Attribute:**
time_fwd
**Fullname:**
Time forwarded
**Attribute Description:**
The time in seconds after which the waiting call is forwarded.

**Attribute:**
cwdeluxe
**Fullname:**
Call Waiting Deluxe
**Attribute Description:**
The cwdeluxe field is used by Call Waiting Deluxe (CWD) Phase I Special Feature in 5e10.1 SR. It will be used to indicate the CWD option for the Call Waiting Terminating feature. The default value is DBNO. In 5e9.1 and 5e9.2 Software Updates (SUs), a ffcf1 spare was used for this Feature. The default value is DBNO.

The CWD feature is allowed only on lines with service class of INDIV, or PBX. It is not allowed on a ISDN, MLHG, 4WINDIV, ATTENDANT, Remote Call Forwarding, Coin, Denied Terminating, Denied Originating, Shared DNs, Two-party, and Multiparty lines. CWD is allowed on LTSB lines if SFID 280 is turned on for 5E13 BMI and later releases. The 'cwdeluxe' fiel

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d
cannot be DBYES unless office has SFID145 set Y (that is, the CWD feature is purchased).

**Attribute:**
alert_type
**Fullname:**
Alert type
**Attribute Description:**
The alert_type field is for use by the Call Waiting Deluxe (CWD) Special feature. If alert_type is set to OFC_ALERT, then the actual value which call processing uses is stored in the Glcwalert global office parameter.

**Attribute:**
cwd_dflt
**Fullname:**
Call waiting deluxe default option
**Attribute Description:**
The cwd_dflt field is for use by the Call Waiting Deluxe (CWD) Special feature. This field stores the default option (ringing, forward, announcement) taken when the CWD subscriber gets call waited and no action is taken by the subscriber. If cwd_dflt is set to OFC_DFLTOPT, then the actual value which call processing uses is stored in the Glcwdefopt global office parameter.

**Attribute:**
cwd_usgsens
**Fullname:**
Call waiting deluxe usage sensitive for conferencing
**Attribute Description:**
The cwd_usgsens field is for use by the Call Waiting Deluxe (CWD) Special feature. This field is set to DBYES when usage sensitive billing for conferencing after being call waited is required. If cwd_usgsens is set to OFC_CONF, then the actual value which call processing uses is stored in the Glcwconf global office parameter.

**Attribute:**
tcw
**Fullname:**
Talking Call Waiting
**Attribute Description:**
It will be used
to indicate that the customer not only has a terminating call waiting feature but a value of DBYES means that the customer has the talking call waiting feature which announces the name of the party trying to call.

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This attribute can not be changed from the default unless the special feature ID SFID331 is turned on.
not applicable

**Attribute:**
ffcf1
**Fullname:**
Future field
**Attribute Description:**
Boolean reserved for future field feature use.

**Attribute:**
ffcf2
**Fullname:**
Future field
**Attribute Description:**
Boolean reserved for future field feature use.

**Attribute:**

ffcf3
**Fullname:**
Future field
**Attribute Description:**
Boolean reserved for future field feature use.

**Attribute:**
ldst_cw
**Fullname:**
Long Distance Call Waiting
**Attribute Description:**
Tell if CW should give special consideration for long distance

calls. This attribute can not be changed from the default unless the special feature ID SFID091 is turned on.

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# CW_PORT

## 1. Description

This relation defines the call waiting feature per-line data.

This is a virtual relation. The tree diagram Figure 1 depicts the stored structure of virtual relation CW_PORT.

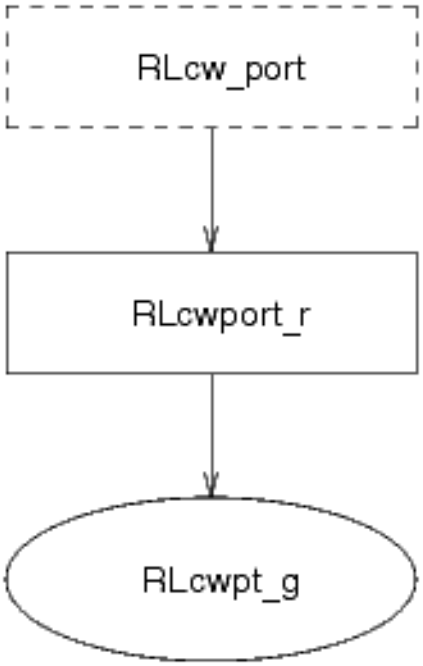


**Figure 1 Virtual Relation CW_PORT**

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 0 |
| access type | DBACC_OPV |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| corcable | DBYES |
| permutation type | perm |

## 3. Field Layout

```
CW_PORT     relid = 453   DBSTATIC   DBACC_OPV   DBNOTODD  LPFG    RCMAP


    feat_id     DMMCC_FID    (ushort)  <--- key
    lport       DMLPORT      (ushort: 16)      <--- key
    bill_aft_x  DMMC_TBILL   (ushort: 6)
(a) cgp_tn_intvl  DMUNL6       (ulong: 6)
(b) cdp_tn_intvl  DMUNL6       (ulong: 6)
(c) dep_tn_intvl  DMUNL6       (ulong: 6)
    time_fwd    DMUNL6       (ulong: 6)
(d) ldst_cw     DMCW_LDC     (enum: 2)
(e) alert_type  DMCWDALERT   (enum: 3)
(f) cwd_dflt    DMCWDOPT     (enum: 3)
```

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```
(g) cwd_usgsens  DMCWDCONF    (enum: 2)
(h) tcw          DMBOOL       (enum: 1)
(i) ffcf1        DMBOOL       (enum: 1)
(j) ffcf2        DMBOOL       (enum: 1)
(k) ffcf3        DMBOOL       (enum: 1)
(l) ffcf4        DMBOOL       (enum: 1)
(m) ffcf5        DMBOOL       (enum: 1)
(n) lpt_type     DMLPT_TYPE   (enum: 2) <--- key
        User, Compacted and Stored Tuple Layout    CW_PORT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            feat_id            |             lport             |
   |---------------+---------------+---------------+---------------|
   |           |           |           |           |           |   |
 4 | bill_aft_x|     a     |     b     |     c     |  time_fwd | d |
   |---------------+---------------+---------------+---------------|
   |     |     |   | | | | | | |   |                               |
 8 |  e  |  f  | g |h|i|j|k|l|m| n |*******************************|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population rules for RLcw_port

### Relation Description

Call Waiting port

Call Waiting parameters assigned to a BRCS User (a User is defined to be an analog terminal, a trunk, or an ISDN User).

"BRCS FEATURE GROUPING (BFG), CAPABILITY G268, IS INTENDED TO IMPROVE RECENT CHANGE RESPONSE TIME AND PROVIDE FOR SM MEMORY REDUCTION. IT PERMITS THE CREATION OF GROUPS OF BRCS FEATURES AND PARAMETERS, AND THE UTILIZATION OF THESE GROUPS BY CALL PROCESSING. BFG GROUP PARAMETER RELATIONS WILL NOT BE CREATED, BUT WILL BE POPULATED IN EXISTING LPORT KEYED RELATIONS.

IDENTIFYING BFG GROUP PARAMETERS WILL BE ACCOMPLISHED VIA USE OF AN LPT_TYPE KEY FIELD SET TO LPT_BFG AND USE OF THE LPORT KEY FIELD TO CONTAIN THE BFG GROUP ID.
THIS CONCEPT IS USED TO AVOID CREATION OF NEW DATABASE RELATIONS.

DISTRIBUTION: GROUP PARTITIONED (IF LPT_TYPE=LPT_BFG) OR SM PARTITIONED

THIS RELATION NOW HAS TWO TYPES OF TUPLES.

1. THE FIRST TYPE is the existing tuples which are SM-PARTITIONED and remain unchanged. They are keyed by lpt_type != LPT_BFG and lport, and no change has been made to this key or data.

2. THE SECOND TYPE is the BFG GROUP PARTITIONED TUPLE associated with

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features in a BRCS Feature Group (BFG), having lpt_type=LPT_BFG, and the bfgid populated in the lport field.

For BFG purposes, RLcw_port is a Group type. Therefore, only BFG lport tuple is permitted for the lport assigned to a BFG. Individual lport tuples may not be created for BFG assigned lports (when the feature is in the BFG).

NOTE: There is a limit of 30 BRCS features for each bfgid. "

**Attribute:**
lport
**Fullname:**
Logical port
**Attribute Description:**
The logical port of the User being assigned the BRCS features.

**Attribute:**
lpt_type
**Fullname:**
Logical port type
**Attribute Description:**
The logical port type of the User being assigned the BRCS features.

**Attribute:**
feat_id
**Fullname:**
Feature ID
**Attribute Description:**
Call Waiting constructed feature ID.

**Attribute:**
cgp_tn_intvl
**Fullname:**
Calling party tone interval
**Attribute Description:**
The calling party tone repetition interval in seconds.
The default 0 indicates no repetition.

**Attribute:**
cdp_tn_intvl
**Fullname:**
Called party tone interval
**Attribute Description:**
The called party tone repetition interval in seconds.
A value of 0 indicates no repetition.

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**Attribute:**
dep_tn_intvl
**Fullname:**
Departure tone interval
**Attribute Description:**
The party departure tone repetition interval in seconds. A value of 0 indicates no repetition.

**Attribute:**
bill_aft_x
**Fullname:**
Bill after x
**Attribute Description:**
The time, in seconds (x), after which to bill the calling party.

**Attribute:**
time_fwd
**Fullname:**
Time forwarded
**Attribute Description:**
The time, in seconds, after which a waiting call is forwarded.

**Attribute:**
ldst_cw
**Fullname:**
Distinctive CW Tone for Long Distance Calls.
**Attribute Description:**
This attribute can not be changed from the default unless the special feature ID SFID091 is turned on.

**Attribute:**
alert_type
**Fullname:**
Alert type
**Attribute Description:**
The alert_type field is for use by the Call Waiting Deluxe ( CWD) Special feature (SFID 145). If alert_type is set to OFC_ALERT, then the actual value which call processing uses is stored in the Glcwalert global office parameter.

**Attribute:**
cwd_dflt
**Fullname:**
Call waiting deluxe default option
**Attribute Description:**
The cwd_dflt field is for use by the Call Waiting Deluxe (CWD) Special feature (SFID 145). This field stores the default

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option (ringing, forward, announcement) taken when the CWD subscriber gets call waited and no action is taken by the subscriber. If cwd_dflt is set to OFC_DFLTOPT, then the actual value which call processing uses is stored in the Glcwdefopt global office parameter.

**Attribute:**
cwd_usgsens
**Fullname:**
Call waiting deluxe usage sensitive for conferencing
**Attribute Description:**
The cwd_usgsens field is for use by the Call Waiting Deluxe (CWD) Special feature (SFID 145). This field is set to USGSEN_YES when usage sensitive billing for conferencing after being call waited is required. If cwd_usgsens is set to OFC_CONF, then the actual value which call processing uses is stored in the Glcwconf global office parameter.

**Attribute:**
tcw
**Fullname:**
talking call waiting
**Attribute Description:**

tcw contains a value that indicates that the customer not only has a terminating call waiting feature but a value of DBYES means that the customer has the talking call waiting feature which announces the name of the party trying to call.

This attribute can not be changed from the default unless the special feature ID SFID331 is turned on.

**Attribute:**
ffcf1
**Fullname:**
Future field 1
**Attribute Description:**
For future field feature use.

**Attribute:**
ffcf2
**Fullname:**
Future field 2
**Attribute Description:**
For future field feature use.

**Attribute:**

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ffcf3

**Fullname:**

bit reserved for future field feature use

**Attribute Description:**

Not assigned yet.

**Attribute:**

ffcf4

**Fullname:**

bit reserved for future field feature use

**Attribute Description:**

Not assigned yet.

**Attribute:**

ffcf5

**Fullname:**

bit reserved for future field feature use

**Attribute Description:**

Reserved for special feature CIDCW.

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# CWPORT_R

## 1. Description

call waiting feature per-line data

This is a root storage relation

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 369 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTORAGE |
| density | 17 |
| foldtype | DBGC31 |

## 3. Field Layout

```
CWPORT_R    relid = 1630  DBSTORAGE  DBACC_HASH  DBPRAM    LPFG    RCMAP
     feat_id     DMMCC_FID    (ushort)     <--- key
     lport       DMLPORT      (ushort: 16)     <--- key
     attlist     DMGK14       (ulong: 14)
 (a) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key
         User, Compacted and Stored Tuple Layout   CWPORT_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |             feat_id             |              lport            |
    |---------------+---------------+---------------+---------------|
    |                             |   |                               |
  4 |          attlist            | a |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLcwport_r

There are no population rules for this relation.

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# CWPT_G

## 1. Description

This relation contains the call waiting feature per-line data. This is a root storage relation that contains all attributes execpt primary keys.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2048 |
| expected tuples | 100 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTORAGE |
| head page size | 512 |
| data page size | 1024 |
| page level | 2 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel GK-index relation | rlCWPT_I |

## 3. Field Layout

```
CWPT_G      relid = 1631  DBSTORAGE  DBACC_GK    DBPRAM    LPFG    RCMAP


    gkCWPT_G    DMGK14       (ulong: 14)       <--- key, not stored
    bill_aft_x  DMMC_TBILL   (ushort: 6)
 (a) cgp_tn_intvl  DMUNL6      (ulong: 6)
 (b) cdp_tn_intvl  DMUNL6      (ulong: 6)
 (c) dep_tn_intvl  DMUNL6      (ulong: 6)
    time_fwd    DMUNL6       (ulong: 6)
 (d) ldst_cw     DMCW_LDC     (enum: 2)
 (e) alert_type  DMCWDALERT   (enum: 3)
 (f) cwd_dflt    DMCWDOPT     (enum: 3)
 (g) cwd_usgsens  DMCWDCONF    (enum: 2)
 (h) tcw         DMBOOL       (enum: 1)
 (i) ffcf1       DMBOOL       (enum: 1)
 (j) ffcf2       DMBOOL       (enum: 1)
 (k) ffcf3       DMBOOL       (enum: 1)
 (l) ffcf4       DMBOOL       (enum: 1)
 (m) ffcf5       DMBOOL       (enum: 1)
        User and Compacted Tuple Layout     CWPT_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |*******************************|          gkCWPT_G             |
   |---------------+---------------+---------------+---------------|
   |           |           |           |           |           |   |
 4 | bill_aft_x|     a     |     b     |     c     |  time_fwd | d |
   |---------------+---------------+---------------+---------------|
   |     |     |   | | | | | | |                                   |
 8 |  e  |  f  | g |h|i|j|k|l|m|***********************************|
   |---------------+---------------+---------------+---------------|
```

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```
      ( 12 bytes )


    bill_aft_x  DMMC_TBILL   (ushort: 6)
(a) cgp_tn_intvl  DMUNL6       (ulong: 6)
(b) cdp_tn_intvl  DMUNL6       (ulong: 6)
(c) dep_tn_intvl  DMUNL6       (ulong: 6)
    time_fwd    DMUNL6       (ulong: 6)
(d) ldst_cw     DMCW_LDC     (enum: 2)
(e) alert_type  DMCWDALERT   (enum: 3)
(f) cwd_dflt    DMCWDOPT     (enum: 3)
(g) cwd_usgsens  DMCWDCONF    (enum: 2)
(h) tcw         DMBOOL       (enum: 1)
(i) ffcf1       DMBOOL       (enum: 1)
(j) ffcf2       DMBOOL       (enum: 1)
(k) ffcf3       DMBOOL       (enum: 1)
(l) ffcf4       DMBOOL       (enum: 1)
(m) ffcf5       DMBOOL       (enum: 1)
          Stored Tuple Layout   CWPT_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                         GK LINK FIELD                         |
   |---------------+---------------+---------------+---------------|
   |           |           |           |           |           |   |
 4 | bill_aft_x|     a     |     b     |     c     |  time_fwd | d |
   |---------------+---------------+---------------+---------------|
   |     |     |   | | | | | | |                                   |
 8 |  e  |  f  | g |h|i|j|k|l|m|***********************************|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population rules for RLcwpt_g

### Relation Description

There are no population rules for this relation.

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## 2.5 RELATIONS: D

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# DA_3DIGIT

## 1. Description

Three digit codes (411, 911, etc.) to seven digit numbers.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 512 |
| data page size | 512 |
| page level | 2 |
| ks key store option | DBNO |

## 3. Field Layout

```
DA_3DIGIT   relid = 13    DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     d_type       DMDESTN       (enum: 7)      <--- key, not stored
     t_index      DMDA_TREE     (ushort: 7)      <--- key, not stored
     dn           DMDN          (struct)     <--- compacted
         digcnt       DMDIGCNT      (uchar: 4)
         dn           DMDIGSTRING   (array [ 15 ] of char )
            User Tuple Layout     DA_3DIGIT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |    d_type     |   t_index     |*******************************|
    |===============+=============  dn ==============+===============|
    |        |      |                                               |
  4 | digcnt|*******|                        dn                     |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                               dn                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                               dn                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                               dn                              |
    |===============+===============+===============+===============|
       ( 20 bytes )
     d_type       DMDESTN       (enum: 7)      <--- key, not stored
     t_index      DMDA_TREE     (ushort: 7)      <--- key, not stored
     dn           DMCDN         (struct)     <--- compacted
         dig8         DMUNS4        (ushort: 4)
         digcnt       DMDIGCNT      (uchar: 4)
         dig9         DMUNS4        (ushort: 4)
         dig1         DMUNS4        (ushort: 4)
         dig10        DMUNS4        (ushort: 4)
         dig2         DMUNS4        (ushort: 4)
         dig11        DMUNS4        (ushort: 4)
```

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```
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
         Compacted Tuple Layout  DA_3DIGIT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |               |                               |
 0 |    d_type     |   t_index     |*******************************|
   |===============+=============  dn =============+===============|
   |       |       |       |       |       |       |       |       |
 4 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 8 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
   |===============+===============+===============+===============|
   |                                                               |
12 |***************************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
16 |***************************************************************|
   |---------------+---------------+---------------+---------------|
     ( 20 bytes )
    dn          DMCDN        (struct)     <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
          Stored Tuple Layout    DA_3DIGIT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+=============  dn =============+===============|
   |       |       |       |       |       |       |       |       |
 0 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
```

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```
4 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
  |===============+===============+===============+===============|
     ( 8 bytes )
```

## 4. Population Rules for RLda_3digit

**Relation Description** Digit analysis of three digit code
This relation translates three digit codes (411, 911, etc.) into seven digit numbers

**Attribute: d_type**

**Fullname:** Destination type

**Attribute Description** Assign enough enumerations for 911,411,811, and numbers (relation DA_DIGSTRT) that require access to them.

**Attribute: t_index**

**Fullname:** Translation index

**Attribute Description** Use numbers assigned in 'digtree' attribute of relation DA_DIGSTRT.

**Attribute: dn**

**Fullname:** Directory number

**Attribute Description** A structure attribute consisting of digcnt and dn.

**Attribute: dn.digcnt**

**Fullname:** Digit count

**Attribute Description** Total number of digits used in attribute dn.dn.

**Attribute: dn.dn**

**Fullname:** Directory number

**Attribute Description** Directory number assigned to each 3 digit feature.

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# DA_AMBIG

## 1. Description

ODP digit analysis ambiguous digits translation table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4000 |
| expected tuples | 400 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | DBNO |

## 3. Field Layout

```
DA_AMBIG    relid = 969   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     table        DMTABLE      (ulong: 20)    <--- key, not stored
     next         DMTABLE      (ulong: 20)
     final        DMTABLE      (ulong: 20)
         User and Compacted Tuple Layout   DA_AMBIG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                       |                       |
  0 |                  table                |***********************|
    |---------------+---------------+---------------+---------------|
    |                                       |                       |
  4 |                   next                |***********************|
    |---------------+---------------+---------------+---------------|
    |                                       |                       |
  8 |                  final                |***********************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )

     next         DMTABLE      (ulong: 20)
     final        DMTABLE      (ulong: 20)
           Stored Tuple Layout     DA_AMBIG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                       |                       |
  0 |                   next                |***********************|
    |---------------+---------------+---------------+---------------|
    |                                       |                       |
  4 |                  final                |***********************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLda_ambig

### Relation Description

```
        Digit analysis ambiguous digits translation table
```

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Relation da_ambig for ambiguous digits analysis for office dialing plan (ODP). The use of attributes depends upon the table number entering from the RLdaprldgt, RLdaprmdgt or RLda_conflct relation.

ODP digit analysis ambiguous digits translation table.

**Attribute:**
table
**Fullname:**
Table entry
**Attribute Description:**
Table number entered from RLdaprldgt.next, RLdaprmdgt.next or RLda_conflct.next.

**Attribute:**
next
**Fullname:**
Next entry
**Attribute Description:**
The use of this attribute depends upon the table number entering from RLdaprldgt, RLdaprmdgt or RLda_conflct relation:

next: 1. DA_AMBIG.table is pointed to by RLdaprldgt.next when RLdaprldgt.row is equal to FCAMBIG or FCRESAMBIG. DA_AMBIG.next points back to RLdaprldgt.previous in this case. The range of this value is 1 to 1048575, excluding NULL.

2. DA_AMBIG.table is pointed to by RLdaprmdgt.next when RLdaprmdgt.row is equal to FCSAC_CALL. When RLdaprmdgt.row is equal to FCSAC_CALL the range of this value is:

   0 to 9999 - For interchange carrier ID.
   1048575 - If the call will be handled by the service provider.

3. DA_AMBIG.table is pointed to by RLda_confclt.next when RLda_conflct.row is equal to FCSAC_CALL or FCCARRIER. When RLda_conflct.row is equal to FCSAC_CALL or FCCARRIER, the range of this value is:

   0 to 9999 - For interchange carrier ID.
   1048575 - If the call will be handled by the service provider.

**Attribute:**
final
**Fullname:**
Final entry

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**Attribute Description:**

The use of this attribute depends upon the table number entering from RLdaprldgt, RLdaprmdgt or RLda_conflct relation:

final: 1. Table number for the final tuple to be accessed in the RLdaprlfnl relation if 'table' entered from RLdaprldgt. The range is from 1 to 1048575, excluding NULL.

2. Table number for the final tuple to be accessed in the RLdaprmfnl relation if 'table' entered from RLdaprmdgt. This value must be 0 or 1048575 when the 'desttype' is FCVACANT. The range is from 0 to 1048575, excluding NULL.

3. Table number for the final tuple to be accessed in the RLdaprmfnl relation if 'table' entered from RLda_conflct. This value must be 0 or 1048575 when the 'desttype' is FCVACANT. The range is from 0 to 1048575, excluding NULL.

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# DA_CONFLCT

## 1. Description

This relation contains the digit analysis table for conflict resolution.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100000 |
| expected tuples | 10000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| l1 length of subkey1 | 13 |
| p1 position of subkey1 | 0 |
| l2 length of subkey2 | 3 |
| p2 position of subkey2 | 20 |
| l3 length of subkey3 | 7 |
| p3 position of subkey3 | 13 |
| l4 length of subkey4 | 1 |
| p4 position of subkey4 | 23 |
| ks key store | DBNO |

## 3. Field Layout

```
DA_CONFLCT  relid = 14    DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL


    table       DMTBLE15     (ulong: 20)       <--- key, not stored
    digits      DMDIG2CNT    (uchar: 4)        <--- key, not stored
    next        DMTABLE      (ulong: 20)
    row         DMROW        (enum: 4)
    delete      DMDIG2CNT    (uchar: 4)
(a) psflag      DMBOOL       (enum: 1)
(b) ffcf2       DMBOOL       (enum: 1)
(c) ffcf3       DMBOOL       (enum: 1)
(d) ffcf4       DMBOOL       (enum: 1)
        User and Compacted Tuple Layout DA_CONFLCT
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                       |       |               |
 0 |                 table                 | digits|***************|
   |---------------+---------------+---------------+---------------|
   |                                       |       |       | | | | |
 4 |                  next                 |  row  | delete|a|b|c|d|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )


    next        DMTABLE      (ulong: 20)
    row         DMROW        (enum: 4)
    delete      DMDIG2CNT    (uchar: 4)
(a) psflag      DMBOOL       (enum: 1)
(b) ffcf2       DMBOOL       (enum: 1)
(c) ffcf3       DMBOOL       (enum: 1)
(d) ffcf4       DMBOOL       (enum: 1)
```

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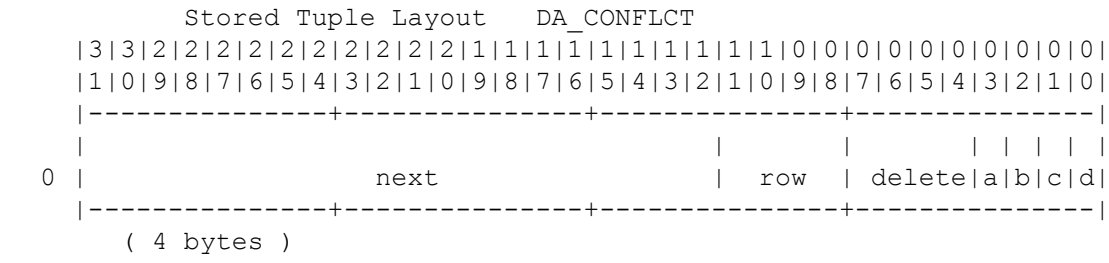


## 4. Population rules for RLda_conflct

### Relation Description

Digit analysis table for conflict resolution

**Attribute:**
table
**Fullname:**
Table number
**Attribute Description:**
Table number from a RLdaprmdgt relation tuple. The valid range is from 1 to 1048575. There is no null value.

**Attribute:**
digits
**Fullname:**
Digit count
**Attribute Description:**
The count of digits dialed or inpulsed since the last digit analyzed in RLdaprmdgt. Valid values are from 0 to 15. There is no null value.

**Attribute:**
row
**Fullname:**
Row
**Attribute Description:**
Indicates the tuple type and is the principal determining factor for the valid values in all other attributes.

A. The following are valid values for LDIT:

FCAMBIG - Ambiguous state. Additional digits will be analyzed in da_conflct if received before time-out (as determined from the critical timing value in the da_timer relation tuple corresponding to the originators characteristics). If no digits are received before time-out, the 'next' attribute is used to

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determine the call treatment.

FCCONT - Continue digit analysis in da_conflct with the next digit received.

FCFINISH - Done with digit analysis. The 'next' attribute is used to determine the call treatment.

FCRAMBIG - Timeout has occurred before the longest possible conflict has been encountered. Use the 'next' attribute value to access RLda_ambig. Record the value of 'RLda_ambig.final' as the original dialing request, and use the value of 'RLda_ambig.next' to begin remaining translation.

FCTRANDONE - Longest possible conflict has been encountered. Use the 'next' attribute value to access RLda_ambig. Record the value of 'RLda_ambig.final' as the original dialing request, and use the value of 'RLda_ambig.next' to begin remaining translation.

B. The following are valid values for remaining digit interpretertable (RDIT):

FCCONT - The current digit sequence is not yet sufficient to interpret a selective dialing request. Use the 'next' attribute value to access a tuple in RLdaprmdgt to continue translation.

FCAMBIG - Ambiguity has been detected. Use the 'next' attribute value to access a tuple in RLda_ambig to resolve the ambiguity. Record the value of 'RLda_ambig.final' as the new final value which represents a selective dialing request. Use the value of 'RLda_ambig.next' to access RLdaprmdgt to continue translation since at least one more possible selective dialing request remains to be identified.

FCFINISH - The current digit sequence is sufficient to determine a selective dialing request. Record the 'next' attribute value as the final value which represents the selective dialing request.

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This field has no null value.

**Attribute:**
next
**Fullname:**
next table entry
**Attribute Description:**
The usage depends on the translator (LDIT/RDIT) and the value of the 'row' attribute.

Within the LDIT translator:

| Row | Usage |
|---|---|
| FCCONT | The 'next' attribute is unused. |
| FCSAC_CALL<br>FCRAMBIG<br>FCTRANDONE<br>FCCARRIER | Use the 'next' attribute value to access exactly one tuple in RLda_ambig with its 'table' value equal to 'next'. |
| FCFINISH<br>FCAMBIG | Use the 'next' attribute value to access exactly one tuple in RLdaprmfnl with its 'previous' value equal to 'next'. |

Within the RDIT translator:

| Row | Usage |
|---|---|
| FCCONT | Use the 'next' attribute value to access exactly one tuple in RLdaprmdgt with its 'previous' value equal to 'next' and its 'digit' value equal to the new digit. |
| FCAMBIG | Use the 'next' attribute value to access exactly one tuple in RLda_ambig with its 'table' value equal to 'next'. |
| FCFINISH | Use the 'next' attribute value to access exactly one tuple in RLdaprmfnl with its 'previous' value equal to 'next'. |

**Attribute:**
delete

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**Fullname:**
Delete
**Attribute Description:**
Number of leading digits to delete.
The valid range is from 0 to 15.
The null value is 0.

See rc/oda rules section for special "delete" rule.

**Attribute:**
psflag
**Fullname:**
Packet switching flag
**Attribute Description:**
Packet switching flag (DBYES/DBNO)
Must be DBNO for voice and circuit switched calls.
Must be DBYES for packet switched calls.
Default value is DBNO.

**Attribute:**
ffcf2
**Fullname:**
bit reserved for future field feature use
**Attribute Description:**
Not assigned yet

**Attribute:**
ffcf3
**Fullname:**
bit reserved for future field feature use
**Attribute Description:**
Not assigned yet

**Attribute:**
ffcf4
**Fullname:**
bit reserved for future field feature use
**Attribute Description:**
Not assigned yet

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# DA_DIGSTRT

## 1. Description

This realtion is used to obtain thestarting table id for digit analysis.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| expected number of tuples | 20 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |
| tsbal - time space balance | DBSPEED |
| optimize | DBYES |

## 3. Field Layout

```
DA_DIGSTRT  relid = 15    DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL

     preltable   DMTABLE      (ulong: 20)
     esco        DMESCO       (ushort: 10)
     primtable   DMTABLE      (ulong: 20)
     digtree     DMDA_TREE    (ushort: 7) <--- key
         User, Compacted and Stored Tuple Layout DA_DIGSTRT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                       |                   |   |
  0 |               preltable               |        esco       |***|
    |---------------+---------------+---------------+---------------|
    |                                       |             |         |
  4 |               primtable               |   digtree   |*********|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLda_digstrt

### Relation Description

Digit analysis starting table

Obtain starting table id for digit analysis.

**Attribute:**

digtree

**Fullname:**

Starting digit analysis table

**Attribute Description:**

Number associated with starting digit in digit analysis table, relation DAPRLDGT and DAPRMDGT. This number is used in the following relations; DA_3DIGIT, FC_LINE, FC_TRUNK, and RC_LCC.

**Attribute:**

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preltable

**Fullname:**

Starting table for preliminary digit analysis

**Attribute Description:**

Starting table number for preliminary digit analysis, relation DAPRLDGT.

**Attribute:**

primtable

**Fullname:**

Starting table for primary digit analysis

**Attribute Description:**

Starting table number for primary digit analysis, relation DAPRMDGT. Most line ports will use starting table ids in both 'preltable' and 'primtable' attributes. Trunks will use starting table ids in 'preltable' attribute.

**Attribute:**

esco

**Fullname:**

Emergency Service Central Office number

**Attribute Description:**

The esco number identifies the originating office of an E911 caller. It is read from this relation upon line originations, and is used in call processing to retrieve an Emergency Service Number (ESN) which is used for call routing and call transfer. This ESCO number is used for lines and is also used for trunks when the ESCO for the trunk is unassigned.

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# DA_ENH

## 1. Description

Specifies DA/DACC details about incoming trunk groups.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8191 |
| expected tuples in relation | 1024 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
DA_ENH      relid = 2131  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     aggr_id     DMUNL18      (ulong: 18)
     tgroup      DMGRUPNM     (ushort: 13)       <--- key
 (a) cmc         DMBOOL       (enum: 1)
     npa         DMUNS10      (ushort: 10)
 (b) aggr_index  DMUNS5       (ushort: 5)
 (c) active      DMBOOL       (enum: 1)
     nxx         DMUNS10      (ushort: 10)
         User, Compacted and Stored Tuple Layout DA_ENH
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                           | |
  0 |              aggr_id            |          tgroup           |a|
    |---------------+---------------+---------------+---------------|
    |                     |         | |                   |           |
  4 |        npa          |    b    |c|        nxx        |***********|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLda_enh

**Relation Description** RLda_enh is designated for the OSPS fast feature group.
RLda_enh has been allocated for OSPS fast feature development.

**Attribute: tgroup**

**Fullname:** Trunk group.

**Attribute Description** For every entry here, there must be a tuple in RLfc_oprtk with the same tgroup. Range is 1 - AVTRKGRPS().

**Attribute: aggr_id**

**Fullname:** Aggregator ID.

**Attribute Description** This attribute holds the 5 digit aggregator identification number of the traffic aggregator assigned to this trunk group.
Range is 1 - 99999.

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**Attribute: aggr_index**

**Fullname:** Aggregator index.

**Attribute Description** This attribute contains the 5 bit aggregator index corresponding to the identification number of the traffic aggregator assigned to this trunk group.
Range is 0 - 31.

**Attribute: active**

**Fullname:** Activation indicator.

**Attribute Description** This attribute indicates whether the OSPS enhancements for DA and DACC special feature is active on this trunk group. When RLfc_oprtk.wlinedcis and RLfc_oprtk.wlessdcis are both DBNO, then this field will always be DBYES, because turning it off causes the tuple to be deleted.

When either RLfc_oprtk.wlinedcis or RLfc_oprtk.wlessdcis is equal to DBYES, then this field will always be DBNO.

**Attribute: cmc**

**Fullname:** Cellular Mobile Carrier.

**Attribute Description** This attribute indicates whether the traffic aggregator using this trunk is a Cellular Mobile Carrier (CMC).

**Attribute: npa**

**Fullname:** NPA.

**Attribute Description** When cmc is DBYES, then this attribute is used to hold the NPA for LATA and exception area determination.

**Attribute: nxx**

**Fullname:** NXX.

**Attribute Description** When cmc is DBYES, then this attribute is used to hold the NXX for LATA and exception area determination.

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# DA_TIMER

## 1. Description

Specifies terminal dependent timing.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 199 |
| expected number of tuples | 193 |
| density | 75 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
DA_TIMER    relid = 210   DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     servclass   DMSERVCLASS  (enum)    <--- key
     sigtype     DMDIGSIG     (enum: 5) <--- key
     signal      DMSTARTSIG   (enum: 4) <--- key
     critical    DMMILLIS     (long)
     partial     DMMILLIS     (long)
     permsig     DMMILLIS     (long)
     ovldpart    DMMILLIS     (long)
     ovldperm    DMMILLIS     (long)
         User, Compacted and Stored Tuple Layout   DA_TIMER
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |         |     |       |                       |
  0 |   servclass   | sigtype |*****| signal|***********************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           critical                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                           partial                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                           permsig                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                           ovldpart                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                           ovldperm                            |
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population Rules for RLda_timer

**Relation Description** Digit analysis timing. When interdigital timing is done, one of two values is used for the time. These values are for partial dial timing and critical interdigital timing. The value chosen is determined by the state of

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the call. These values for both lines and trunks are found in the relation RLda_timer.

**Attribute: servclass**

**Fullname:** Class of service

**Attribute Description** This attribute contains type of terminal.

**Attribute: signal**

**Fullname:** Type of signaling

**Attribute Description** Type of signal. Taken from FC_TRUNK relation, either attribute in_startsig or out_startsig. Line enumerations (including serv- class FC_ISDN) will use a null value. (FCSSNULL)

**Attribute: sigtype**

**Fullname:** Digit signal type

**Attribute Description** This signal type taken from FC_TRUNK relation, either attribute in_sigtype or out_sigtype. From FC_LINE relation use enumeration from signal attribute.

NOTE: For 2 way or incoming common channel signaling (CCS) trunks with sigtype= DBTUP7, or DBCCIS6, this relation is not populated.

**Attribute: critical**

**Fullname:** Critical timing in milliseconds

**Attribute Description** This is used when interdigit timing is done.

**Attribute: partial**

**Fullname:** Partial dial timing in milliseconds

**Attribute Description** This is also used when interdigit timing is done. Use of this attribute critical is determined by the state of the call. A call processing program handles the determination of the state.

**Attribute: permsig**

**Fullname:** Permanent signal time

**Attribute Description** This attribute contains the permanent signal time.

**Attribute: ovldpart**

**Fullname:** Partial timing during overload

**Attribute Description** If the system is in an overload state then this attribute is used instead of partial attribute.

**Attribute: ovldperm**

**Fullname:** Permanent overload

**Attribute Description** This attribute contains the permanent signal timing during overload.

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# DAA_DN

## 1. Description

This relation contains Direct Agent Access (DAA) DN information for Automatic Call Distributor (ACD) agents. It also contains ACD DN information for ACD DNs that are being interflowed.

This is a virtual update relation. The root storage relation is RLdaa_r.G. The child storage relation is RLdaa_g.G. The tree diagram Figure 1 depicts the stored structure of virtual relation DAA_DN.

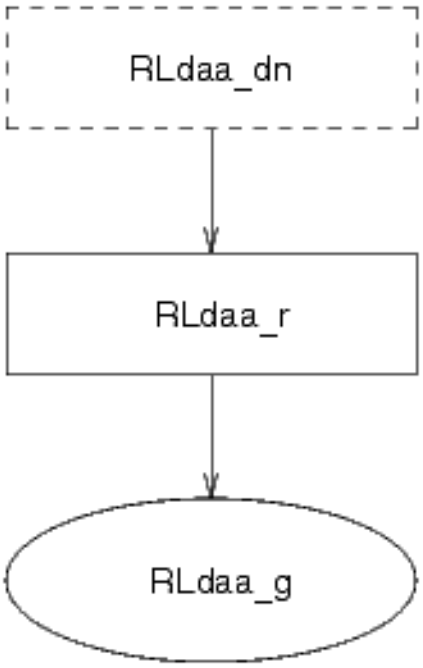


**Figure 1 Virtual Relation DAA_DN**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | ACDBRCS |
| spare | 16s |
| relation type | DBSTATIC |

## 3. Field Layout

```
DAA_DN      relid = 1909  DBSTATIC   DBACC_OPV   DBNOTODD  LP      ACDBRCS


    agent_id    DMAGID       (ushort)
    call_que    DMCQNUM      (ushort: 10)
    fwd_dn      DMBCD_DN     (struct)
        dn0         DMUNS4       (ushort: 4)
        dn1         DMUNS4       (ushort: 4)
        dn2         DMUNS4       (ushort: 4)
        dn3         DMUNS4       (ushort: 4)
        dn4         DMUNS4       (ushort: 4)
        dn5         DMUNS4       (ushort: 4)
```

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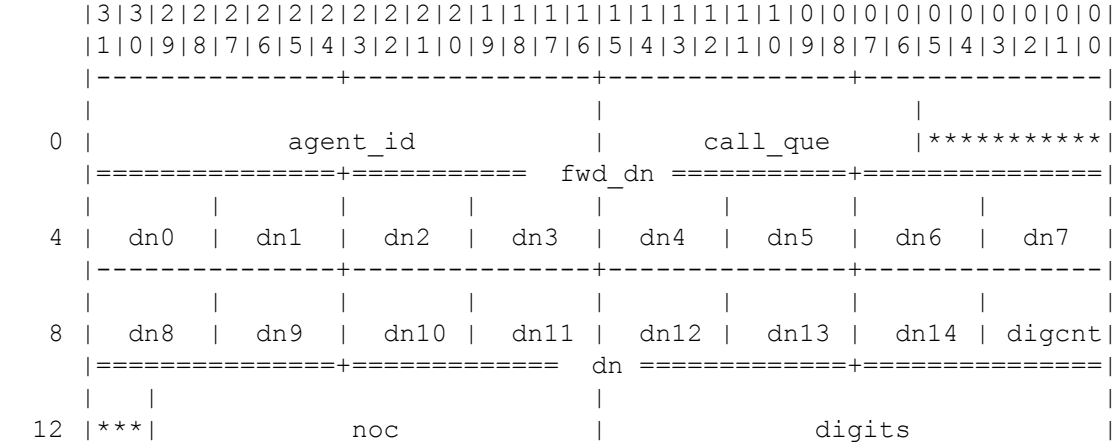
```
        dn6         DMUNS4       (ushort: 4)
        dn7         DMUNS4       (ushort: 4)
        dn8         DMUNS4       (ushort: 4)
        dn9         DMUNS4       (ushort: 4)
        dn10        DMUNS4       (ushort: 4)
        dn11        DMUNS4       (ushort: 4)
        dn12        DMUNS4       (ushort: 4)
        dn13        DMUNS4       (ushort: 4)
        dn14        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
    dn          DMLOCDN      (struct)  <--- key, compacted
        noc         DMNOC        (ushort: 14)
        digits      DMLOCDIG     (array [ 4 ] of char )
    carrier     DMBCARID     (ushort: 14)
(a) vec_asgnd   DMBOOL       (enum: 1)
(b) line_screen  DMBOOL       (enum: 1)
    pic2        DMBCARID     (ushort: 14)
(c) psap        DMBOOL       (enum: 1)
(d) unbundled   DMBOOL       (enum: 1)
    plc         DMBCARID     (ushort: 14)
(e) acdsp5      DMBOOL       (enum: 1)
(f) acdsp6      DMBOOL       (enum: 1)
    screen_x    DMSCRNIDX    (ushort: 12)
    acdsp4      DMUNS4       (ushort: 4)
    vec_num     DMCVNUM      (ushort: 11)
(g) acdsp7      DMBOOL       (enum: 1)
(h) acdsp8      DMBOOL       (enum: 1)
(i) acdsp9      DMBOOL       (enum: 1)
(j) acdsp10     DMBOOL       (enum: 1)
(k) acdsp11     DMBOOL       (enum: 1)
    digtree     DMDA_TREE    (ushort: 7)
    acdsp3      DMUNS6       (ushort: 6)
(l) cnbrdisp    DMBOOL       (enum: 1)
(m) cnbrmis     DMBOOL       (enum: 1)
    miscallcls  DMCLLCLS     (ushort: 12)
    acdsp1      DMUNS4       (ushort: 4)
    dispx       DMDSPIDX     (ushort: 11)
(n) freeterm    DMBOOL       (enum: 1)
(o) acdsp2      DMBOOL       (enum: 1)
```

User Tuple Layout DAA_DN

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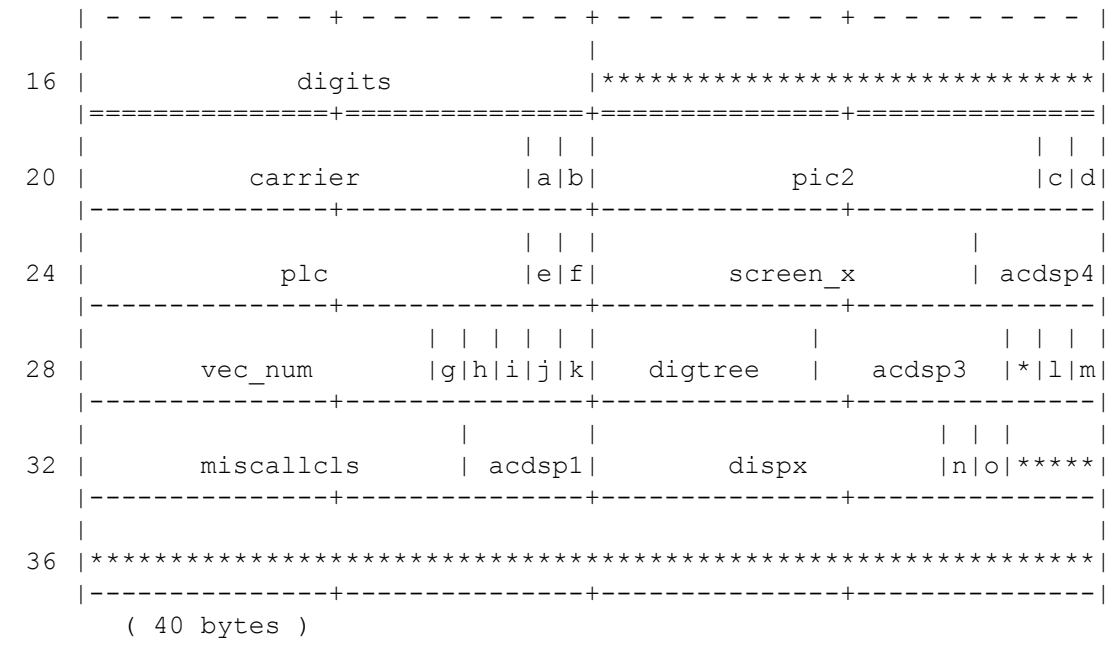


```
    agent_id    DMAGID       (ushort)
    call_que    DMCQNUM      (ushort: 10)
    fwd_dn      DMBCD_DN     (struct)
        dn0         DMUNS4       (ushort: 4)
        dn1         DMUNS4       (ushort: 4)
        dn2         DMUNS4       (ushort: 4)
        dn3         DMUNS4       (ushort: 4)
        dn4         DMUNS4       (ushort: 4)
        dn5         DMUNS4       (ushort: 4)
        dn6         DMUNS4       (ushort: 4)
        dn7         DMUNS4       (ushort: 4)
        dn8         DMUNS4       (ushort: 4)
        dn9         DMUNS4       (ushort: 4)
        dn10        DMUNS4       (ushort: 4)
        dn11        DMUNS4       (ushort: 4)
        dn12        DMUNS4       (ushort: 4)
        dn13        DMUNS4       (ushort: 4)
        dn14        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
    dn          DMKLOCDN     (struct)  <--- key, compacted
        noc         DMNOC        (ushort: 14)
        index       DMUNS14      (ushort: 14)
    carrier     DMBCARID     (ushort: 14)
(a) vec_asgnd   DMBOOL       (enum: 1)
(b) line_screen  DMBOOL       (enum: 1)
    pic2        DMBCARID     (ushort: 14)
(c) psap        DMBOOL       (enum: 1)
(d) unbundled   DMBOOL       (enum: 1)
    plc         DMBCARID     (ushort: 14)
(e) acdsp5      DMBOOL       (enum: 1)
(f) acdsp6      DMBOOL       (enum: 1)
    screen_x    DMSCRNIDX    (ushort: 12)
```

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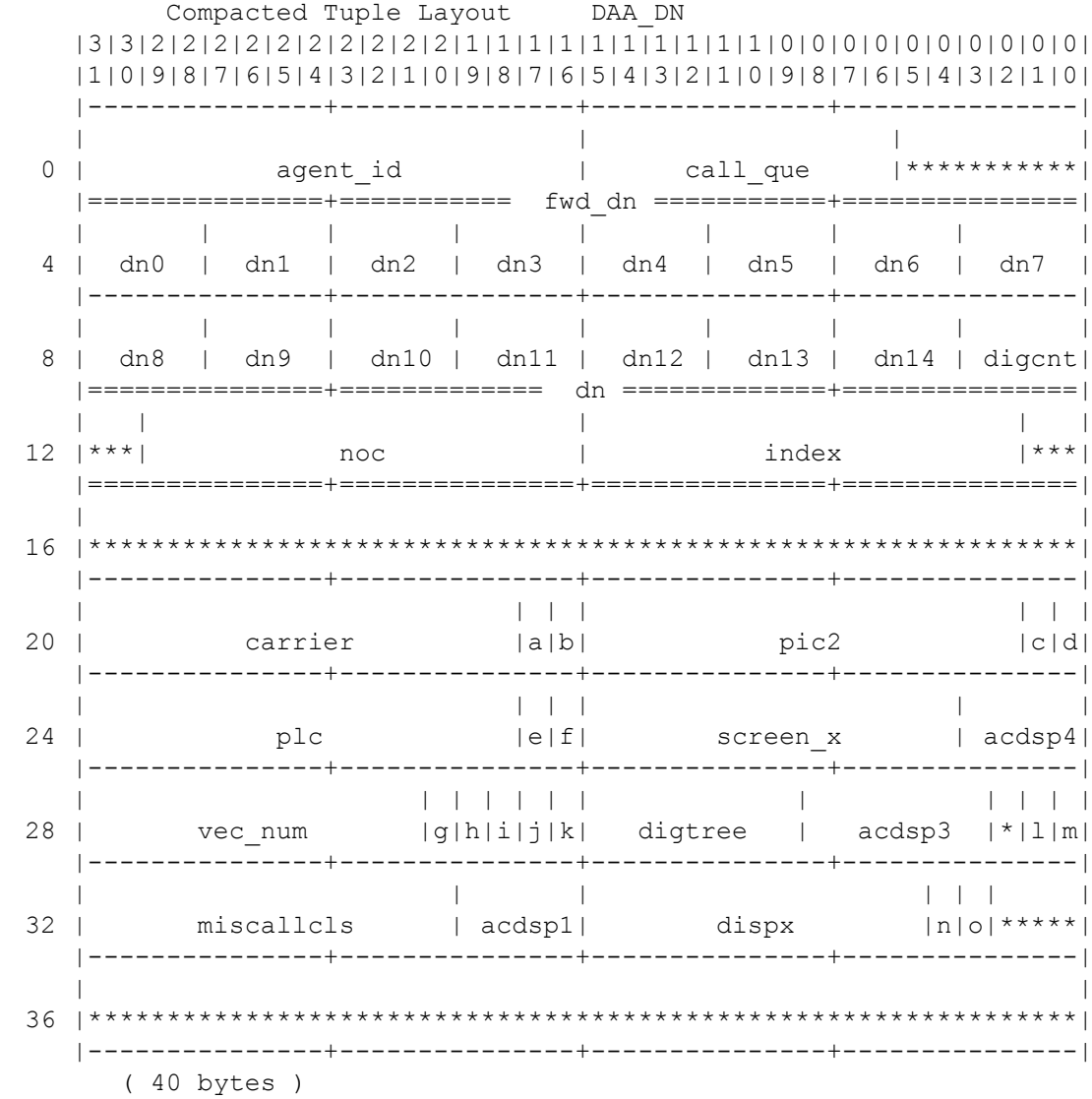
```
    acdsp4      DMUNS4       (ushort: 4)
    vec_num     DMCVNUM      (ushort: 11)
(g) acdsp7      DMBOOL       (enum: 1)
(h) acdsp8      DMBOOL       (enum: 1)
(i) acdsp9      DMBOOL       (enum: 1)
(j) acdsp10     DMBOOL       (enum: 1)
(k) acdsp11     DMBOOL       (enum: 1)
    digtree     DMDA_TREE    (ushort: 7)
    acdsp3      DMUNS6       (ushort: 6)
(l) cnbrdisp    DMBOOL       (enum: 1)
(m) cnbrmis     DMBOOL       (enum: 1)
    miscallcls  DMCLLCLS     (ushort: 12)
    acdsp1      DMUNS4       (ushort: 4)
    dispx       DMDSPIDX     (ushort: 11)
(n) freeterm    DMBOOL       (enum: 1)
(o) acdsp2      DMBOOL       (enum: 1)
```

Compacted Tuple Layout DAA_DN




( 40 bytes )

```
agent_id    DMAGID       (ushort)
```

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```
    call_que    DMCQNUM      (ushort: 10)
    fwd_dn      DMBCD_DN     (struct)
        dn0         DMUNS4       (ushort: 4)
        dn1         DMUNS4       (ushort: 4)
        dn2         DMUNS4       (ushort: 4)
        dn3         DMUNS4       (ushort: 4)
        dn4         DMUNS4       (ushort: 4)
        dn5         DMUNS4       (ushort: 4)
        dn6         DMUNS4       (ushort: 4)
        dn7         DMUNS4       (ushort: 4)
        dn8         DMUNS4       (ushort: 4)
        dn9         DMUNS4       (ushort: 4)
        dn10        DMUNS4       (ushort: 4)
        dn11        DMUNS4       (ushort: 4)
        dn12        DMUNS4       (ushort: 4)
        dn13        DMUNS4       (ushort: 4)
        dn14        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
    dn          DMKLOCDN     (struct)  <--- key, compacted
        noc         DMNOC        (ushort: 14)
        index       DMUNS14      (ushort: 14)
    carrier     DMBCARID     (ushort: 14)
(a) vec_asgnd   DMBOOL       (enum: 1)
(b) line_screen  DMBOOL       (enum: 1)
    pic2        DMBCARID     (ushort: 14)
(c) psap        DMBOOL       (enum: 1)
(d) unbundled   DMBOOL       (enum: 1)
    plc         DMBCARID     (ushort: 14)
(e) acdsp5      DMBOOL       (enum: 1)
(f) acdsp6      DMBOOL       (enum: 1)
    screen_x    DMSCRNIDX    (ushort: 12)
    acdsp4      DMUNS4       (ushort: 4)
    vec_num     DMCVNUM      (ushort: 11)
(g) acdsp7      DMBOOL       (enum: 1)
(h) acdsp8      DMBOOL       (enum: 1)
(i) acdsp9      DMBOOL       (enum: 1)
(j) acdsp10     DMBOOL       (enum: 1)
(k) acdsp11     DMBOOL       (enum: 1)
    digtree     DMDA_TREE    (ushort: 7)
    acdsp3      DMUNS6       (ushort: 6)
(l) cnbrdisp    DMBOOL       (enum: 1)
(m) cnbrmis     DMBOOL       (enum: 1)
    miscallcls  DMCLLCLS     (ushort: 12)
    acdsp1      DMUNS4       (ushort: 4)
    dispx       DMDSPIDX     (ushort: 11)
(n) freeterm    DMBOOL       (enum: 1)
(o) acdsp2      DMBOOL       (enum: 1)
          Stored Tuple Layout   DAA_DN
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                   |           |
 0 |            agent_id           |      call_que     |***********|
   |===============+===========  fwd_dn ===========+===============|
```

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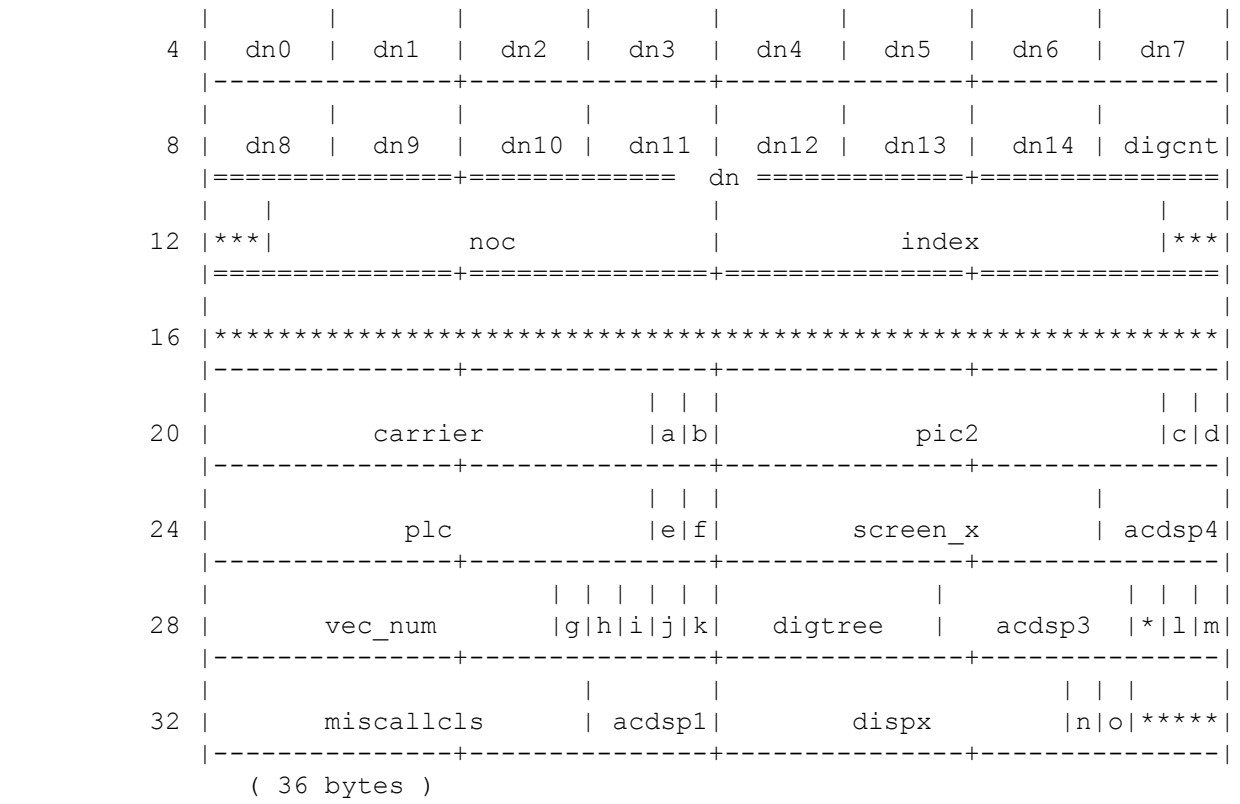


## 4. Population rules for RLdaa_dn

**Relation Description**

direct agent access directory number

This relation contains Direct Agent Access (DAA) DN information for ACD agents. It also contains ACD DN information for ACD DNs that are being interflowed.

**Attribute:**

dn

**Fullname:**

directory number

**Attribute Description:**

This attribute consists of a NOC (normalized office code) and four directory number digits. For DAA DNs and interflowed ACD DNs, there must be a tuple in RLRTDNMOD with noc+d4d3. Also, on the corresponding routing SM there must be a tuple in RLRT_DNTRAN with noc+d4d3d2d1. There must not be a tuple in RLACD_DN for this same DN. There must not be a tuple with a scmdn equal to a DAA DN or an interflowed ACD DN in RLdn_pscm.

**Attribute:**

dn.noc

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**Fullname:**
normalized office code
**Attribute Description:**
see dn

**Attribute:**
dn.digits
**Fullname:**
four directory number digits
**Attribute Description:**
see dn

**Attribute:**
call_que
**Fullname:**
call queue
**Attribute Description:**
This attribute identifies the default call queue that handles calls for a DAA DN or an interflowed ACD DN. Calls to DAA DNs are given queue treatment if the DAA agent is not logged in and a fwd_dn or vec_num is not assigned. If the call queue is not equal to zero, then there must be a tuple with a non zero tgid value in RLCQPARM for this call queue.

**Attribute:**
vec_asgnd
**Fullname:**
vector assigned
**Attribute Description:**
This attribute is DBYES only if a vector has been assigned to handle calls to this DAA DN or interflowed ACD DN. Calls to DAA DNs are given vector treatment if the DAA agent is not logged in and a fwd_dn is not assigned. For interflowed ACD DNs, vectoring is not used. When this attribute is DBYES, the vec_num attribute must contain a valid attribute vector number minus 1.

**Attribute:**
vec_num
**Fullname:**
vector number minus 1
**Attribute Description:**
This attribute identifies the RLQVVECTOR tuple that provides call handling while waiting for an ACD agent. When the vec_asgnd attribute is DBYES, vec_num must contain a valid vector number minus 1. There should be an existing tuple in RLQVVECTOR that defines the desired call treatment. When vec_asgnd is DBNO, vec_num should be 0.

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**Attribute:**
agent_id
**Fullname:**
agent identifier
**Attribute Description:**
This attribute identifies the agent associated with this Direct Agent Access (DAA) DN. The presence of a non zero agent_id distinguishes a DAA DN from an ACD DN. There must be a tuple in RLagentid if agent_id is non zero.

**Attribute:**
carrier
**Fullname:**
carrier
**Attribute Description:**
This attribute indicates the presubscribed carrier for a DAA DN or interflowed ACD DN. It is used for DAA call redirection or ACD call interflow. There must be a tuple in RLFC_CARR for this carrier.

**Attribute:**
pic2
**Fullname:**
presubscribed intra-LATA-toll carrier
**Attribute Description:**
This attribute indicates the presubscribed (preferred) intra-LATA-toll carrier for a DAA DN or interflowed ACD DN. It is used for intra-LATA-toll DAA call redirection or intra-LATA-toll ACD call interflow.

This attribute must be $NULL_BCARID (default) if the ICLATA SF (SFID 149) is not active. When pic2 is not equal to $NULL_BCARID, there must be a tuple in RLFC_CARR for this intra-LATA-toll carrier.

The value of this attribute is independent of the mass presubscribed intra-LATA-toll carrier, Glpic2.

**Attribute:**
plc
**Fullname:**
presubscribed intra-LATA local carrier ID
**Attribute Description:**
This attribute contains the presubscribed intra-LATA local carrier ID for an alternate LSP.

**Attribute:**
cnbrdisp

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**Fullname:**
calling number to agent's display
**Attribute Description:**
When this attribute is DBYES, calling numbers (if available) are displayed on the agent's terminal. When it is DBNO, calling numbers are not displayed on the agent's terminal.

**Attribute:**
cnbrmis
**Fullname:**
calling number to management information system
**Attribute Description:**
When this attribute is DBYES, calling numbers (if available) for calls to this DAA DN or interflowed ACD DN are sent to the MIS. When it is DBNO, calling numbers for calls to this DAA or interflowed ACD DN are not sent to the MIS.

**Attribute:**
fwd_dn
**Fullname:**
forward to directory number
**Attribute Description:**
This attribute is used as the forward-to-DN for calls terminating to DAA DNs when the corresponding agent is not logged in or as the ACD interflow destination DN.

For DAA not logged in forwarding, the forward-to-DN (if present) must be in the range of from 1 to 15 digits. For ACD interflow, the forward-to-DN is required and it must be in the range of from 1 to 15 digits.

**Attribute:**
fwd_dn.dn0
**Fullname:**
digit number 0
**Attribute Description:**
This is the 1st digit of the forward-to-DN.

**Attribute:**
fwd_dn.dn1
**Fullname:**
digit number 1
**Attribute Description:**
This is the 2nd digit of the forward-to-DN.

**Attribute:**
fwd_dn.dn2
**Fullname:**

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digit number 2
**Attribute Description:**
This is the 3rd digit of the forward-to-DN.

**Attribute:**
fwd_dn.dn3
**Fullname:**
digit number 3
**Attribute Description:**
This is the 4th digit of the forward-to-DN.

**Attribute:**
fwd_dn.dn4
**Fullname:**
digit number 4
**Attribute Description:**
This is the 5th digit of the forward-to-DN.

**Attribute:**
fwd_dn.dn5
**Fullname:**
digit number 5
**Attribute Description:**
This is the 6th digit of the forward-to-DN.

**Attribute:**
fwd_dn.dn6
**Fullname:**
digit number 6
**Attribute Description:**
This is the 7th digit of the forward-to-DN.

**Attribute:**
fwd_dn.dn7
**Fullname:**
digit number 7
**Attribute Description:**
This is the 8th digit of the forward-to-DN.

**Attribute:**
fwd_dn.dn8
**Fullname:**
digit number 8
**Attribute Description:**
This is the 9th digit of the forward-to-DN.

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**Attribute:**
fwd_dn.dn9
**Fullname:**
digit number 9
**Attribute Description:**
This is the 10th digit of the forward-to-DN.

**Attribute:**
fwd_dn.dn10
**Fullname:**
digit number 10
**Attribute Description:**
This is the 11th digit of the digit structure.

**Attribute:**
fwd_dn.dn11
**Fullname:**
digit number 11
**Attribute Description:**
This is the 12th digit of the digit structure.

**Attribute:**
fwd_dn.dn12
**Fullname:**
digit number 12
**Attribute Description:**
This is the 13th digit of the digit structure.

**Attribute:**
fwd_dn.dn13
**Fullname:**
digit number 13
**Attribute Description:**
This is the 14th digit of the digit structure.

**Attribute:**
fwd_dn.dn14
**Fullname:**
digit number 14
**Attribute Description:**
This is the 15th digit of the digit structure.

**Attribute:**
fwd_dn.digcnt
**Fullname:**
digit number count
**Attribute Description:**

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This is the count of the number of digits in the forward-to-DN.

**Attribute:**
digtree
**Fullname:**
starting digit analysis tree
**Attribute Description:**
This attribute identifies the digit analysis table to start with when analyzing digits for DAA call redirection or ACD call interflow. There must be a tuple in RLDA_DIGSTRT for this digtree.

**Attribute:**
dispx
**Fullname:**
display index
**Attribute Description:**
This attribute identifies the display index for calls to this DAA DN. If this attribute is non-zero, there must be a tuple in RLACDDISP for this dispx.

**Attribute:**
freeterm
**Fullname:**
free termination
**Attribute Description:**
When this attribute is DBYES, calls to this DAA DN or interflowed ACD DN are not billed. When this attribute is DBNO, calls to this DAA DN or interflowed ACD DN get standard billing treatment (and therefore if chargeable, get billed).

**Attribute:**
line_screen
**Fullname:**
line screen
**Attribute Description:**
When this attribute is DBYES, this DAA DN or interflowed ACD DN is associated with toll/code restriction/diversion or WATS band screening. This attribute is used for DAA call redirection or ACD call interflow.

**Attribute:**
miscallcls
**Fullname:**
management information system call class
**Attribute Description:**
This attribute is used by the Management Information

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System (MIS) to track DAA or interflowed ACD calls.

**Attribute:**
screen_x
**Fullname:**
screening index
**Attribute Description:**
This attribute is used for routing and charging redirected DAA or interflowed ACD calls. There must be a tuple in RLrt_scrning for this screen_x.

**Attribute:**
psap
**Fullname:**
e911 public safety answering point
**Attribute Description:**
This attribute is used for the ACD E911 Public Safety Answering Point Special Feature to indicate if this DAA DN is an ACD E911 PSAP. The ACD E911 PSAP special feature is a secured feature (SFID 143). This attribute must not be set to DBYES unless the special feature has been purchased.

**Attribute:**
unbundled
**Fullname:**
Network/LEC indicator for calls to complete to an alternate LSP platform.
**Attribute Description:**
When unbundled = DBYES, (None/1)+ 7/10 digit intra-LATA local calls route using presubscribed local carrier (PLC) information. If PLC routing information is not populated, route via the LEC. When unbundled = DBNO, (None/1)+ 7/10 digit intra-LATA local calls always route via the LEC.

**Attribute:**
acdsp1
**Fullname:**
ACD/BRCS spare 1
**Attribute Description:**
Spare ACD/BRCS attribute.

**Attribute:**
acdsp2
**Fullname:**
ACD/BRCS spare 2
**Attribute Description:**
Spare ACD/BRCS attribute.

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**Attribute:**
acdsp3
**Fullname:**
ACD/BRCS spare 3
**Attribute Description:**
Spare ACD/BRCS attribute.

**Attribute:**
acdsp4
**Fullname:**
ACD/BRCS spare 4
**Attribute Description:**
Spare ACD/BRCS attribute.

**Attribute:**
acdsp5
**Fullname:**
ACD/BRCS spare 5
**Attribute Description:**
Spare ACD/BRCS attribute.

**Attribute:**
acdsp6
**Fullname:**
ACD/BRCS spare 6
**Attribute Description:**
Spare ACD/BRCS attribute.

**Attribute:**
acdsp7
**Fullname:**
ACD/BRCS spare 7
**Attribute Description:**
Spare ACD/BRCS attribute.

**Attribute:**
acdsp8
**Fullname:**
ACD/BRCS spare 8
**Attribute Description:**
Spare ACD/BRCS attribute.

**Attribute:**
acdsp9
**Fullname:**
ACD/BRCS spare 9

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**Attribute Description:**
Spare ACD/BRCS attribute.

**Attribute:**
acdsp10
**Fullname:**
ACD/BRCS spare 10
**Attribute Description:**
Spare ACD/BRCS attribute.

**Attribute:**
acdsp11
**Fullname:**
ACD/BRCS spare 11
**Attribute Description:**
Spare ACD/BRCS attribute.

**Defines:**
"db/DMcarr_val.h"

# DAA_G

## 1. Description

This relation contains the child storage relation for RLDAA_DN.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 9000 |
| expected tuples | 200 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LP |
| application | ACDBRCS |
| spare | 16s |
| relation type | DBSTORAGE |
| ks key store | DBNO |
| foldtype | DBGC31 |
| gkidxrel reverse index | rlDAA_I |

## 3. Field Layout

```
DAA_G       relid = 1899  DBSTORAGE  DBACC_GK    DBPRAM    LP      ACDBRCS

     gkDAA_G     DMGK14       (ulong: 14) <--- key, not stored
     carrier     DMBCARID     (ushort: 14)
 (a) vec_asgnd   DMBOOL       (enum: 1)
 (b) line_screen  DMBOOL       (enum: 1)
     pic2        DMBCARID     (ushort: 14)
 (c) psap        DMBOOL       (enum: 1)
 (d) unbundled   DMBOOL       (enum: 1)
     plc         DMBCARID     (ushort: 14)
 (e) acdsp5      DMBOOL       (enum: 1)
 (f) acdsp6      DMBOOL       (enum: 1)
     screen_x    DMSCRNIDX    (ushort: 12)
     acdsp4      DMUNS4       (ushort: 4)
     vec_num     DMCVNUM      (ushort: 11)
 (g) acdsp7      DMBOOL       (enum: 1)
 (h) acdsp8      DMBOOL       (enum: 1)
 (i) acdsp9      DMBOOL       (enum: 1)
 (j) acdsp10     DMBOOL       (enum: 1)
 (k) acdsp11     DMBOOL       (enum: 1)
     digtree     DMDA_TREE    (ushort: 7)
     acdsp3      DMUNS6       (ushort: 6)
     fwd_dn      DMBCD_DN     (struct)
         dn0         DMUNS4       (ushort: 4)
         dn1         DMUNS4       (ushort: 4)
         dn2         DMUNS4       (ushort: 4)
         dn3         DMUNS4       (ushort: 4)
         dn4         DMUNS4       (ushort: 4)
         dn5         DMUNS4       (ushort: 4)
         dn6         DMUNS4       (ushort: 4)
         dn7         DMUNS4       (ushort: 4)
         dn8         DMUNS4       (ushort: 4)
         dn9         DMUNS4       (ushort: 4)
         dn10        DMUNS4       (ushort: 4)
         dn11        DMUNS4       (ushort: 4)
```

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```
        dn12        DMUNS4       (ushort: 4)
        dn13        DMUNS4       (ushort: 4)
        dn14        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        User and Compacted Tuple Layout  DAA_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 0 |*********************************|          gkDAA_G              |
   |---------------+---------------+---------------+---------------|
   |                           | | |                           | | |
 4 |          carrier          |a|b|            pic2           |c|d|
   |---------------+---------------+---------------+---------------|
   |                           | | |                       |       |
 8 |            plc            |e|f|        screen_x       | acdsp4|
   |---------------+---------------+---------------+---------------|
   |                     | | | | | |             |           |     |
12 |       vec_num       |g|h|i|j|k|   digtree   |   acdsp3  |*****|
   |===============+===========  fwd_dn ===========+===============|
   |       |       |       |       |       |       |       |       |
16 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |-------+-------+-------+-------+-------+-------+-------+-------|
   |       |       |       |       |       |       |       |       |
20 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+===============+===============+===============|
   |                                                               |
24 |***************************************************************|
   |---------------+---------------+---------------+---------------|
     ( 28 bytes )

    carrier     DMBCARID     (ushort: 14)
(a) vec_asgnd   DMBOOL       (enum: 1)
(b) line_screen  DMBOOL       (enum: 1)
    pic2        DMBCARID     (ushort: 14)
(c) psap        DMBOOL       (enum: 1)
(d) unbundled   DMBOOL       (enum: 1)
    plc         DMBCARID     (ushort: 14)
(e) acdsp5      DMBOOL       (enum: 1)
(f) acdsp6      DMBOOL       (enum: 1)
    screen_x    DMSCRNIDX    (ushort: 12)
    acdsp4      DMUNS4       (ushort: 4)
    vec_num     DMCVNUM      (ushort: 11)
(g) acdsp7      DMBOOL       (enum: 1)
(h) acdsp8      DMBOOL       (enum: 1)
(i) acdsp9      DMBOOL       (enum: 1)
(j) acdsp10     DMBOOL       (enum: 1)
(k) acdsp11     DMBOOL       (enum: 1)
    digtree     DMDA_TREE    (ushort: 7)
    acdsp3      DMUNS6       (ushort: 6)
    fwd_dn      DMBCD_DN     (struct)
        dn0         DMUNS4       (ushort: 4)
        dn1         DMUNS4       (ushort: 4)
        dn2         DMUNS4       (ushort: 4)
```

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```
        dn3          DMUNS4       (ushort: 4)
        dn4          DMUNS4       (ushort: 4)
        dn5          DMUNS4       (ushort: 4)
        dn6          DMUNS4       (ushort: 4)
        dn7          DMUNS4       (ushort: 4)
        dn8          DMUNS4       (ushort: 4)
        dn9          DMUNS4       (ushort: 4)
        dn10         DMUNS4       (ushort: 4)
        dn11         DMUNS4       (ushort: 4)
        dn12         DMUNS4       (ushort: 4)
        dn13         DMUNS4       (ushort: 4)
        dn14         DMUNS4       (ushort: 4)
        digcnt       DMDIGCNT     (uchar: 4)
          Stored Tuple Layout    DAA_G
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                         GK LINK FIELD                         |
    |---------------+---------------+---------------+---------------|
    |                             | | |                           | | |
  4 |          carrier            |a|b|            pic2           |c|d|
    |---------------+---------------+---------------+---------------|
    |                             | | |                       |       |
  8 |            plc              |e|f|        screen_x       | acdsp4|
    |---------------+---------------+---------------+---------------|
    |                       | | | | | |             |           |     |
 12 |       vec_num         |g|h|i|j|k|   digtree   |   acdsp3  |*****|
    |===============+===========  fwd_dn ===========+===============|
    |       |       |       |       |       |       |       |       |
 16 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
 20 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+===============+===============+===============|
    |                                                               |
 20 |***************************************************************|
    |---------------+---------------+---------------+---------------|
      ( 28 bytes )
```

## 4. Population rules for RLdaa_g

There are no population rules for this realtion.

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# DAA_R

## 1. Description

Root storage relation for RLDAA_DN.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 9000 |
| expected tuples | 500 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | ACDBRCS |
| relation type | DBSTORAGE |
| ks key store | DBNO |

## 3. Field Layout

```
DAA_R       relid = 1900  DBSTORAGE  DBACC_CIND  DBPRAM    LP      ACDQ
     dn          DMLOCDN      (struct)  <--- key, not stored, compacted
         noc         DMNOC        (ushort: 8)
         digits      DMLOCDIG     (array [ 4 ] of char )
     agent_id    DMBCD4       (ushort)
     daar        DMGK14       (ulong: 14)
 (a) cnbrdisp    DMBOOL       (enum: 1)
 (b) cnbrmis     DMBOOL       (enum: 1)
     dispx       DMDISPX      (ushort: 9)
     miscallcls  DMUNL9       (ulong: 9)
     call_type   DMUNS8       (ushort: 8)
     acdsp1      DMUNS4       (ushort: 4)
 (c) freeterm    DMBOOL       (enum: 1)
 (d) acdsp2      DMBOOL       (enum: 1)
            User Tuple Layout     DAA_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============  dn ============+===============|
    |               |               |                               |
  0 |***************|      noc      |             digits            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  4 |             digits            |*******************************|
    |===============+===============+===============+===============|
    |                               |                           | | |
  8 |             agent_id          |            daar           |a|b|
    |---------------+---------------+---------------+---------------|
    |                 |                 |               |       | | |
 12 |      dispx      |    miscallcls   |   call_type   | acdsp1|c|d|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
     dn          DMKLOCDN     (struct)  <--- key, not stored, compacted
         noc         DMNOC        (ushort: 8)
         index       DMUNS14      (ushort: 14)
     agent_id    DMBCD4       (ushort)
     daar        DMGK14       (ulong: 14)
 (a) cnbrdisp    DMBOOL       (enum: 1)
```

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```
(b) cnbrmis     DMBOOL       (enum: 1)
    dispx       DMDISPX      (ushort: 9)
    miscallcls  DMUNL9       (ulong: 9)
    call_type   DMUNS8       (ushort: 8)
    acdsp1      DMUNS4       (ushort: 4)
(c) freeterm    DMBOOL       (enum: 1)
(d) acdsp2      DMBOOL       (enum: 1)
         Compacted Tuple Layout      DAA_R
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+=============  dn =============+===============|
   |               |               |                              |   |
 0 |***************|      noc      |           index              |***|
   |===============+===============+===============+===============|
   |                                                               |
 4 |***************************************************************|
   |---------------+---------------+---------------+---------------|
   |                               |                              | | |
 8 |            agent_id           |             daar             |a|b|
   |---------------+---------------+---------------+---------------|
   |                 |                 |                |       | | |
12 |      dispx      |    miscallcls   |   call_type    | acdsp1|c|d|
   |---------------+---------------+---------------+---------------|
      ( 16 bytes )
    agent_id    DMBCD4       (ushort)
    daar        DMGK14       (ulong: 14)
(a) cnbrdisp    DMBOOL       (enum: 1)
(b) cnbrmis     DMBOOL       (enum: 1)
    dispx       DMDISPX      (ushort: 9)
    miscallcls  DMUNL9       (ulong: 9)
    call_type   DMUNS8       (ushort: 8)
    acdsp1      DMUNS4       (ushort: 4)
(c) freeterm    DMBOOL       (enum: 1)
(d) acdsp2      DMBOOL       (enum: 1)
          Stored Tuple Layout    DAA_R
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                              | | |
 0 |            agent_id           |             daar             |a|b|
   |---------------+---------------+---------------+---------------|
   |                 |                 |                |       | | |
 4 |      dispx      |    miscallcls   |   call_type    | acdsp1|c|d|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population Rules for RLdaa_r

There are no population rules for this relation.

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# DACC_TRT

## 1. Description

This relation contains the Directory Assistance Call Completion Treatment Table. This relation will have a distribution of Fixed Group (FG), with grp_type of GPD_OSPS, and a grp_id of 4.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
DACC_TRT    relid = 2789  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL


     dn          DMBCD_DN     (struct)  <--- key
         dn0         DMUNS4       (ushort: 4)
         dn1         DMUNS4       (ushort: 4)
         dn2         DMUNS4       (ushort: 4)
         dn3         DMUNS4       (ushort: 4)
         dn4         DMUNS4       (ushort: 4)
         dn5         DMUNS4       (ushort: 4)
         dn6         DMUNS4       (ushort: 4)
         dn7         DMUNS4       (ushort: 4)
         dn8         DMUNS4       (ushort: 4)
         dn9         DMUNS4       (ushort: 4)
         dn10        DMUNS4       (ushort: 4)
         dn11        DMUNS4       (ushort: 4)
         dn12        DMUNS4       (ushort: 4)
         dn13        DMUNS4       (ushort: 4)
         dn14        DMUNS4       (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
     da_type     DMUNS5       (ushort: 5)
 (a) dacc_alw    DMBOOL       (enum: 1)
     hdr_id      DMANNC_ID    (ulong: 17)
 (b) dior_alw    DMBOOL       (enum: 1)
 (c) plcard_alw  DMBOOL       (enum: 1)
 (d) intl_ind    DMBOOL       (enum: 1)
     ospsff1     DMLONG       (long)
     ospsff2     DMUSHORT     (ushort)
 (e) ospsff3     DMBOOL       (enum: 1)
 (f) ospsff4     DMBOOL       (enum: 1)
 (g) ospsff5     DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout   DACC_TRT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+=============  dn =============+===============|
    |       |       |       |       |       |       |       |       |
  0 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
```

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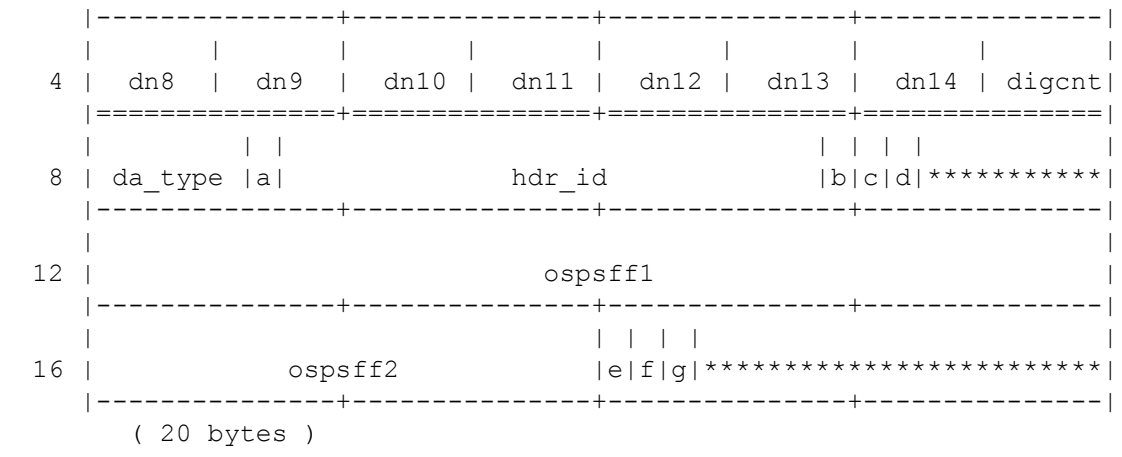


## 4. Population rules for RLdacc_trt

### Relation Description

DA Call Completion Treatment Table

RLdacc_trt defines the DACC Treatment Table for enhanced CICADA call completion.

**Attribute:**
dn
**Fullname:**
Directory Number + Digit Count
**Attribute Description:**
The 10, 7, or 3-digit destination number.

**Attribute:**
dn.dn0
**Fullname:**
Digit0 of DN
**Attribute Description:**
Digit0 of the 10, 7, or 3-digit destination number

**Attribute:**
dn.dn1
**Fullname:**
Digit1 of DN
**Attribute Description:**
Digit1 of the 10, 7, or 3-digit destination number

**Attribute:**
dn.dn2
**Fullname:**
Digit2 of DN

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**Attribute Description:**
Digit2 of the 10, 7, or 3-digit destination number

**Attribute:**
dn.dn3
**Fullname:**
Digit3 of DN
**Attribute Description:**
Digit3 of the 10 or 7-digit destination number

**Attribute:**
dn.dn4
**Fullname:**
Digit4 of DN
**Attribute Description:**
Digit4 of the 10 or 7-digit destination number

**Attribute:**
dn.dn5
**Fullname:**
Digit5 of DN
**Attribute Description:**
Digit5 of the 10 or 7-digit destination number

**Attribute:**
dn.dn6
**Fullname:**
Digit6 of DN
**Attribute Description:**
Digit6 of the 10 or 7-digit destination number

**Attribute:**
dn.dn7
**Fullname:**
Digit7 of DN
**Attribute Description:**
Digit7 of the 10-digit destination number

**Attribute:**
dn.dn8
**Fullname:**
Digit8 of DN
**Attribute Description:**
Digit8 of the 10-digit destination number

**Attribute:**

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dn.dn9
**Fullname:**
Digit9 of DN
**Attribute Description:**
Digit9 of the 10-digit destination number

**Attribute:**
dn.dn10
**Fullname:**
Digit10 of DN
**Attribute Description:**
Digit10 of dn. Not used.

**Attribute:**
dn.dn11
**Fullname:**
Digit11 of DN
**Attribute Description:**
Digit11 of dn. Not used.

**Attribute:**
dn.dn12
**Fullname:**
Digit12 of DN
**Attribute Description:**
Digit12 of dn. Not used.

**Attribute:**
dn.dn13
**Fullname:**
Digit13 of DN
**Attribute Description:**
Digit13 of dn. Not used.

**Attribute:**
dn.dn14
**Fullname:**
Digit14 of DN
**Attribute Description:**
Digit14 of dn. Not used.

**Attribute:**
dn.digcnt
**Fullname:**
Digit Counter
**Attribute Description:**
Defines the number of digits in the destination number. This

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attribute can only have the values of 10, 7, or 3.

**Attribute:**
da_type
**Fullname:**
Directory Assistance Type
**Attribute Description:**
This attribute defines the Directory Assistance (DA) Type.

**Attribute:**
dacc_alw
**Fullname:**
DA Call Completion Allowed
**Attribute Description:**
This attribute defines the Directory Assistance Call Completion (DACC) Allow value. When this attribute is DBNO, the DA Type must not be zero(0).

**Attribute:**
hdr_id
**Fullname:**
Header ID
**Attribute Description:**
This attribute defines the announcement header. When this attribute is non-zero, a tuple must exist in rlANNC_HDR equal to the value of this attribute.

**Attribute:**
dior_alw
**Fullname:**
DIOR Directory Assistance Call Completion (DACC) indicator.
**Attribute Description:**
This attribute determines the DA Call Completion eligibility for DIOR originated calls.

**Attribute:**
plcard_alw
**Fullname:**
Purchase Limit card indicator.
**Attribute Description:**
This attribute determines whether the DA Call Completion should be allowed for a valid Purchase Limits (PL) card.

**Attribute:**
intl_ind
**Fullname:**
Real Time Rating System (RTRS) international call indicator.

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**Attribute Description:**
This attribute determines how the Real Time Rating System should handle the rate quotation query.

**Attribute:**
ospsff1
**Fullname:**
Spare 1
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff2
**Fullname:**
Spare 2
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff3
**Fullname:**
Spare 3
**Attribute Description:**
This attribute defines the LSCC Redirect value. When this attribute is DBYES, the Service Provider is allowed to activate the LSCC feature treatment on a Directory Assistance destination number basis. This spare will be returned in 5e13.

**Attribute:**
ospsff4
**Fullname:**
Spare 4
**Attribute Description:**
This attribute (LIST LIMIT ENF) specifies whether or not to display the associated D1 error message to the OSPS-LS operator on calls to the associated DA destination number. This parameter is examined by the OSPS-LS only on a 4ESS(TM) originated call. This spare field will be returned in 5e13.

**Attribute:**
ospsff5
**Fullname:**
Spare 5
**Attribute Description:**
Spare field for fast feature development.

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# DAPRL_R

## 1. Description

Root storage relation for DAPRLFNL.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 6000 |
| expected number of tuples | 400 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTORAGE |
| ks key store | DBNO |
| density | 100 |
| tsbal - time space balance | DBSPEED |

## 3. Field Layout

```
DAPRL_R     relid = 2196  DBSTORAGE  DBACC_CIND  DBPRAM    FR      NULL
     previous    DMTBLE14     (ulong: 20)    <--- key, not stored
     feat_id     DMMCC_FID    (ushort)
     route_x     DMRTEIDX     (ushort: 14)
 (a) ffcf1       DMBOOL       (enum: 1)
 (b) ffcf2       DMBOOL       (enum: 1)
     aspatts     DMGK14       (ulong: 14)
 (c) bld10dgts   DMBOOL       (enum: 1)
     dest        DMDESTIDX    (ushort: 12)
 (d) route_type  DMROUTE      (enum: 4)
     action      DMMCACTN     (enum: 9)
     desttype    DMDESTN      (enum: 7)
     desep       DMDESEP      (ushort: 8)
 (e) type_ci_call  DMCITYPE     (enum: 5)
         User and Compacted Tuple Layout    DAPRL_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |                |
  0 |                 previous                      |************************|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | | |
  4 |             feat_id             |           route_x           |a|b|
    |---------------+---------------+---------------+---------------|
    |                               | | |                         |       |
  8 |           aspatts             |c|*|           dest          |   d   |
    |---------------+---------------+---------------+---------------|
    |                 |             |                 |         |     |
 12 |      action     |   desttype  |     desep       |    e    |*****|
    |---------------+---------------+---------------+---------------|
                               ( 16 bytes )

     feat_id     DMMCC_FID    (ushort)
     route_x     DMRTEIDX     (ushort: 14)
 (a) ffcf1       DMBOOL       (enum: 1)
 (b) ffcf2       DMBOOL       (enum: 1)
     aspatts     DMGK14       (ulong: 14)
```

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```
(c) bld10dgts   DMBOOL       (enum: 1)
    dest        DMDESTIDX    (ushort: 12)
(d) route_type  DMROUTE      (enum: 4)
    action      DMMCACTN     (enum: 9)
    desttype    DMDESTN      (enum: 7)
    desep       DMDESEP      (ushort: 8)
(e) type_ci_call  DMCITYPE     (enum: 5)
          Stored Tuple Layout      DAPRL_R
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                             | | |
 0 |            feat_id            |          route_x            |a|b|
   |---------------+---------------+---------------+---------------|
   |                             | | |                       |       |
 4 |          aspatts            |c|*|          dest         |   d   |
   |---------------+---------------+---------------+---------------|
   |                 |             |               |         |     |
 8 |      action     |   desttype  |     desep     |    e    |*****|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population rules for RLdaprl_r

### Relation Description

There are no population rules for this relation.

# DAPRLDGT

## 1. Description

ODP digit analysis preliminary translation table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 6000 |
| expected tuples | 600 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| l1 length of subkey1 | 4 |
| p1 position of subkey1 | 24 |
| l2 length of subkey2 | 11 |
| p2 position of subkey2 | 0 |
| l3 length of subkey3 | 3 |
| p3 position of subkey3 | 28 |
| l4 length of subkey4 | 9 |
| p4 position of subkey4 | 11 |
| l5 length of subkey5 | 1 |
| p5 position of subkey5 | 31 |
| ks key store | DBNO |
| cluster | 16 |

## 3. Field Layout

```
DAPRLDGT    relid = 970   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     previous    DMTBLE14     (ulong: 20)    <--- key, not stored
     digit       DMEDIGIT     (char)    <--- key, not stored
     next        DMTABLE      (ulong: 20)
     row         DMROW        (enum: 4)
     digits      DMDIG2CNT    (uchar: 4)
     delete      DMDIG2CNT    (uchar: 4)
 (a) prefix      DMPREFIX     (enum: 3)
 (b) psflag      DMBOOL       (enum: 1)
         User and Compacted Tuple Layout   DAPRLDGT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                       |       |               |
  0 |                 previous              |*******|     digit     |
    |---------------+---------------+---------------+---------------|
    |                                       |       |       |       |
  4 |                   next                |  row  | digits| delete|
    |---------------+---------------+---------------+---------------|
    |     | |                                                       |
  8 |  a  |b|*******************************************************|
    |---------------+---------------+---------------+---------------|
                                    ( 12 bytes )

     next        DMTABLE      (ulong: 20)
     row         DMROW        (enum: 4)
     digits      DMDIG2CNT    (uchar: 4)
     delete      DMDIG2CNT    (uchar: 4)
 (a) prefix      DMPREFIX     (enum: 3)
 (b) psflag      DMBOOL       (enum: 1)
```

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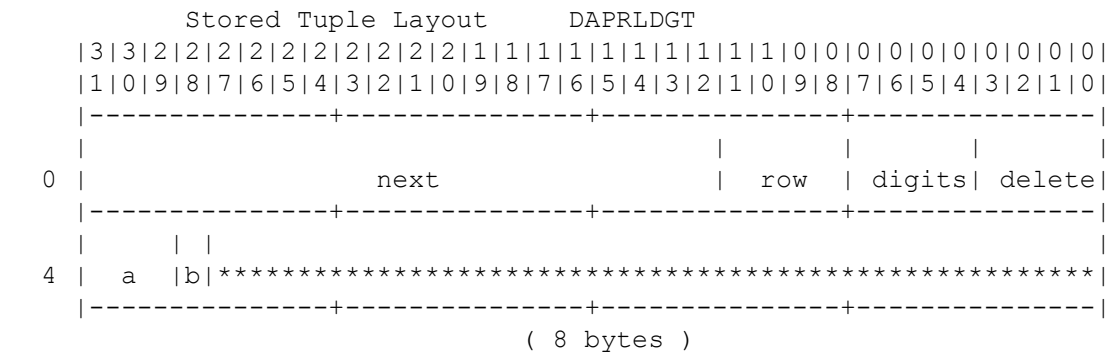
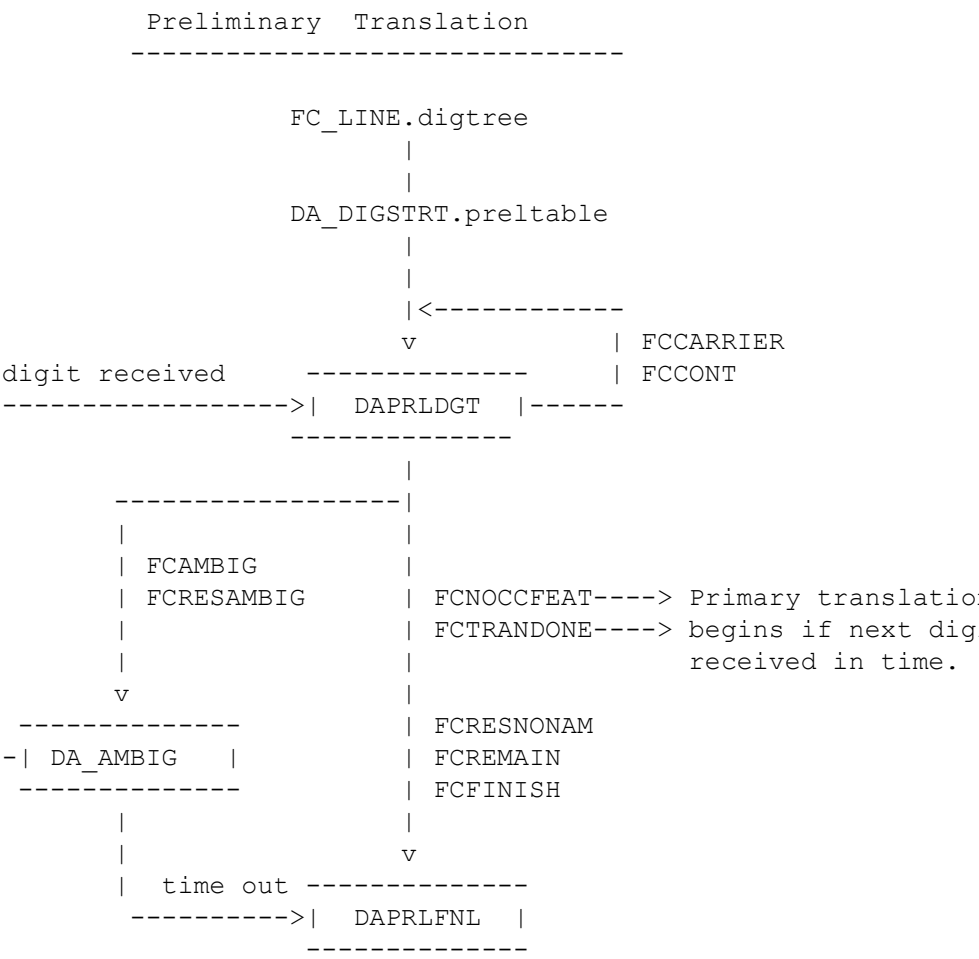



## 4. Population rules for RLdaprldgt

### Relation Description

ODP Digit Analysis Preliminary Translation Table

This relation implements a tree structure for parsing the dialed digits string. For each dialed digits string, this relation will be accessed first to do the preliminary translation which includes the feature access code, operator call, carrier interconnect call and incoming trunk call. All other dialing patterns will be re-translated in the primary translation (RLdaprmdgt).

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This diagram tells the next relation to access based on the
current dialing state ('row' attribute) and the incoming digit."

**Attribute:**
previous
**Fullname:**
Previous
**Attribute Description:**
This is the first key of the relation. It can be obtained from any
of the following attributes, depending on the previous tuple read:
DA_DIGSTRT.preltable,
DAPRLDGT.next,
DA_AMBIG.next

**Attribute:**
digit
**Fullname:**
The current digit for preliminary translation
**Attribute Description:**
The current dialed or impulsed digit.

**Attribute:**
row
**Fullname:**
The value of this attribute represent the current dialing state
**Attribute Description:**
Indicates the current dialing state and is the principal determining
factor for the valid values in all other attributes. The valid values
are the following subset of domain DMrow:

FCAMBIG
Indicates that the current digit string is a valid code
while more digits may be dialed. The digit translation
flow after this point can be described as:
DAPRLDGT.next -> DA_AMBIG.table
if next digit received in critical timing
DA_AMBIG.next -> DAPRLDGT.previous
else
DA_AMBIG.final -> DAPRLFNL.table

FCCARRIER
Indicates this is a carrier interconnect call. Collect the
carrier ID number without analysis then continue preliminary
digit analysis with the following digit.
FCCONT
Continue digit analysis in RLdaprldgt with the next digit
received. The next tuple to be accessed is
DAPRLDGT.next -> DAPRLDGT.previous.
FCNOCCFEAT

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No further digit analysis for customer calling features. A tuple in the RLdaprlfnl relation is the leaf node for customer dialing feature which is pointed to by the 'DAPRLDGT.next' attribute. If no further digits were dialed, desttype in the RLdaprlfnl relation specifies what kind of call it is. If the originating line does not have the indicated feature, the call times out based on the partial dial timing in the da_timer tuple corresponding to the originators characteristics. If more digits are dialed, preliminary digit analysis is done and primary digit analysis commences.

FCFINISH
Digit Analysis is completed. Currently used only for operator access, operator recall or cut-thru to IC calls. Used for packet switch also.

FCREMAIN
Used when digit analysis is complete but additional digits are to be collected without digit analysis. Used only for incoming trunk digit analysis.

FCRESAMBIG
Ambiguous restricted feature. Used for cases where the digits already dialed provide access to a custom calling feature. An entry of the RLda_ambig relation will be given in the next attribute. A tuple with this entry in RLda_ambig gives another two pointers, one points back to the next tuple in the RLdaprldgt relation, one points to the final routing data in the RLdaprlfnl relation. If digit received in critical timing (from da_timer) RLdaprldgt will be accessed and the preliminary digit analysis is continued. Otherwise RLdaprlfnl relation will be accessed to provide the customer dialed feature information.

FCRESNONAM
Unambiguous restricted feature. Used when the digits already received provide unambiguous access to a feature. No timing is done. The desttype in the RLdaprlfnl tuple which is pointed by 'DAPRLDGT.next' specifies what kind of call it is. If the originator does not have the specified feature then reorder treatment is returned.

FCTRANDONE
Indicates that preliminary digit analysis is done and primary digit analysis should begin.

FCRECONSTRCT
Indicates that the digit translation will need reconstruct.

**Attribute:**
next

**Fullname:**
Pointer to the next tuple to be accessed

**Attribute Description:**
The usage of this attribute depends upon the current value of

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**Attribute:**

```
1) If row is  FCCONT or FCCARRIER then
    DAPRLDGT.next -> DAPRLDGT.previous:
2) If row is FCAMBIG or FCRESAMBIG then
    DAPRLDGT.next -> DA_AMBIG.table:
3) If row is FCREMAIN, FCNOCCFEAT, FCRESNONAM or FCFINISH then
    DAPRLDGT.next -> DAPRLFNL.previous.
```

**Attribute:**

digits

**Fullname:**

The number of remaining digits to be collected

**Attribute Description:**

This attribute specifies the number of remaining digits to be collected for incoming trunk call.

**Attribute:**

delete

**Fullname:**

Number of leading digits to be deleted

**Attribute Description:**

This attribute specifies the number of leading digits that need to be deleted for the current dialing state.

**Attribute:**

prefix

**Fullname:**

The dialed prefix index

**Attribute Description:**

The dialed prefix index.

**Attribute:**

psflag

**Fullname:**

Packet switching indicator

**Attribute Description:**

For non-packet switching call, this attribute must be DBNO.

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# DAPRLFNL

## 1. Description

This is the OP VIEW relation for Preliminary Digit Analysis Final Translation.
This is a virtual update relation. The tree diagram Figure 1 depicts the stored structure of virtual relation DAPRLFNL.

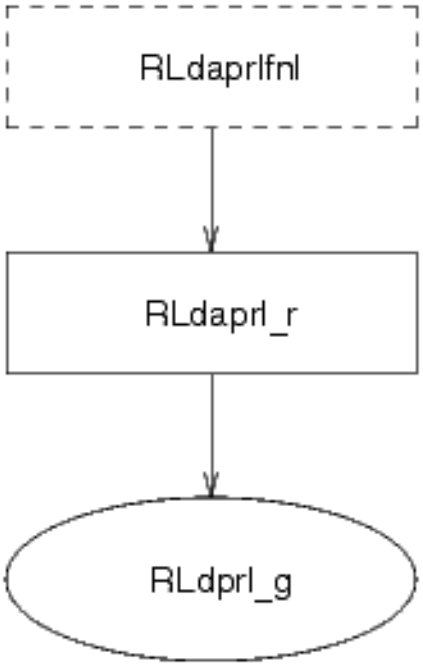


**Figure 1 Virtual Relation DAPRLFNL**

This is an OP VIEW relation for the Preliminary Digit Analysis Final Translation. This is a virtual update relation. The root storage relation is RLdaprl_r.G

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
DAPRLFNL    relid = 972   DBSTATIC   DBACC_OPV   DBNOTODD  FR      NULL

     previous    DMTBLE14     (ushort) <--- key
     spec_dn     DMBCD_DN     (struct)
         dn0         DMUNS4       (ushort: 4)
         dn1         DMUNS4       (ushort: 4)
         dn2         DMUNS4       (ushort: 4)
         dn3         DMUNS4       (ushort: 4)
         dn4         DMUNS4       (ushort: 4)
         dn5         DMUNS4       (ushort: 4)
         dn6         DMUNS4       (ushort: 4)
         dn7         DMUNS4       (ushort: 4)
         dn8         DMUNS4       (ushort: 4)
```

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```
        dn9          DMUNS4       (ushort: 4)
        dn10         DMUNS4       (ushort: 4)
        dn11         DMUNS4       (ushort: 4)
        dn12         DMUNS4       (ushort: 4)
        dn13         DMUNS4       (ushort: 4)
        dn14         DMUNS4       (ushort: 4)
        digcnt       DMDIGCNT     (uchar: 4)
    trignum      DMUNS8       (ushort: 8)
    lnp_trignum  DMUNS8       (ushort: 8)
    portdn_das   DMDA_TREE    (ushort: 7)
(a) iddd_ind     DMBOOL       (enum: 1)
(b) dfltrt       DMDFLTRT     (enum: 3)
(c) nature       DMNATURE     (enum: 3)
(d) bill_ind     DMBOOL       (enum: 1)
(e) anibypass    DMBOOL       (enum: 1)
    feat_id      DMMCC_FID    (ushort)
    route_x      DMRTEIDX     (ushort: 14)
(f) ffcf1        DMBOOL       (enum: 1)
(g) ffcf2        DMBOOL       (enum: 1)
    annc_code    DMSSPACODE   (ushort: 16)
    ffcf4        DMUSHORT     (ushort)
    action       DMMCACTN     (enum: 9)
    desttype     DMDESTN      (enum: 7)
    desep        DMDESEP      (ushort: 8)
(h) type_ci_call  DMCITYPE     (enum: 5)
(i) nodal_idx    DMUNS3       (ushort: 3)
(j) esccode      DMBOOL       (enum: 1)
(k) geoport      DMBOOL       (enum: 1)
(l) ported_in    DMBOOL       (enum: 1)
(m) home_lrn     DMBOOL       (enum: 1)
(n) lrn_scrn     DMBOOL       (enum: 1)
(o) dny_xfer     DMBOOL       (enum: 1)
(p) o_bltrig_inh  DMBOOL       (enum: 1)
(q) o_natrig_inh  DMBOOL       (enum: 1)
(r) dn_prefd     DMBOOL       (enum: 1)
(s) ffcf3        DMBOOL       (enum: 1)
(t) gets_hpc     DMBOOL       (enum: 1)
(u) bld10dgts    DMBOOL       (enum: 1)
    dest         DMDESTIDX    (ushort: 12)
(v) route_type   DMROUTE      (enum: 4)
    carrid       DMCARRID     (array [ 4 ] of char )
        User, Compacted and Stored Tuple Layout   DAPRLFNL
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            previous           |*******************************|
   |===============+=========== spec_dn ===========+===============|
   |       |       |       |       |       |       |       |       |
 4 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 8 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+===============+===============+===============|
```

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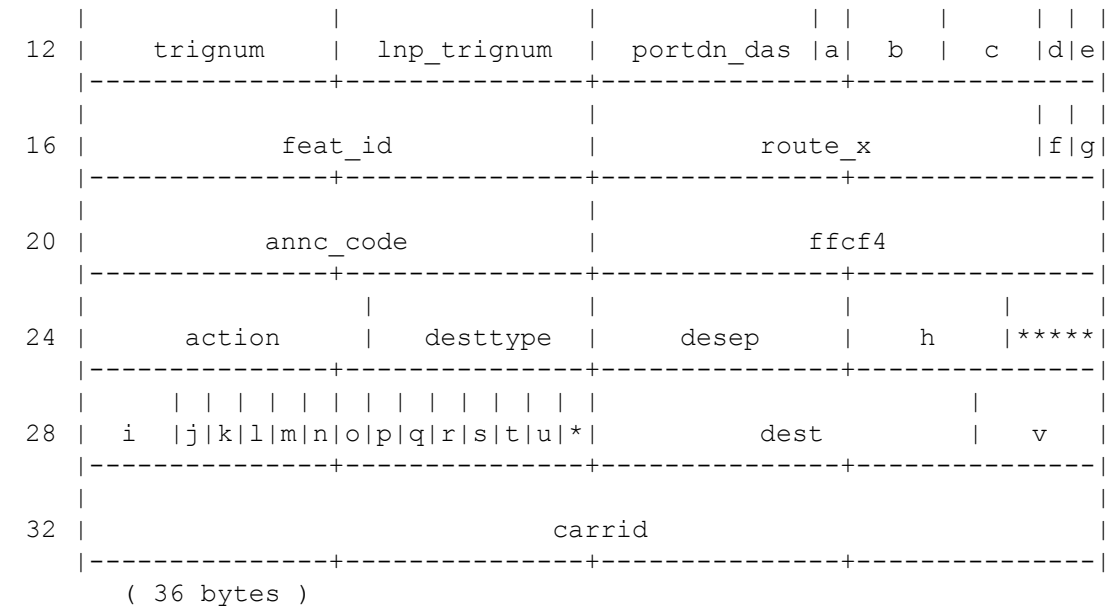


## 4. Population rules for RLdaprlfnl

**Relation Description**

Office dialing plan (ODP) preliminary digit analysis final routing table

ODP preliminary digit analysis final routing table.

**Attribute:**

previous

**Fullname:**

Previous

**Attribute Description:**

Table number from either the RLdaprldgt relation or the RLda_ambig relation corresponding to the previous dialed or inpulsed digit.

**Attribute:**

dest

**Fullname:**

Destination index

**Attribute Description:**

Destination index is used in routing.

**Attribute:**

desttype

**Fullname:**

Destination type

**Attribute Description:**

A destination type used to indicate various actions to be taken

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on receipt of this digit. Valid values are the following subset of the DESTN domain:

For U.S.:

| | |
|---|---|
| FCDIALCODE | - Access to a Master Control Center (MCC) feature. |
| FCOPERATOR | - Operator access. |
| FCIDDDOPER | - International direct distance dialing (IDDD) operator access. |
| FCOPRECALL | - Operator recall. |
| FCNORMAL | - Plain old telephone service (POTS). |
| FC900 | - 900 call. |
| FC911 | - E911 call. |
| NULLDEST | - The null value. |

**Attribute:**
route_x
**Fullname:**
Route index
**Attribute Description:**
The introduction of the primary route concept brought in the route_x and route_type as new attributes three digit analysis relations. See the population rules for RLrt_scrning.G relation. According to it, only the following route_x and route type assignments are allowed in the digit analysis relations RLdaprlfnl, RLdaprmfnl, and RLda_conflct:

| ROUTE_TYPE | ROUTE INDEX |
|---|---|
| RTE_DNTRAN | A normalized office code (NOC) in the range 1-AVNOCMAX(). |
| RTE_HUNT | A route_x in the range 1-AVRIMAX(). |
| RTE_NULL | Zero. |
| RTE_POLYGRID | A pattern (key to RLrt_poly) in the range 1-AVRIMAX(). |

**Attribute:**
route_type
**Fullname:**
Route type
**Attribute Description:**
Route type.

**Attribute:**
desep
**Fullname:**
Destination separations class
**Attribute Description:**
Destination separations class for division of revenue purposes.

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**Attribute:**
action
**Fullname:**
Action
**Attribute Description:**
Indicates the MCC feature action to be taken as a result of the dialed code. The null value ACN_NONE indicates no action applies for the digits dialed. When an action is specified, the feature specified by feat_id must allow this action. This may be determined by looking in the RLFACFTDSC tuple keyed by this feature ID (FID). RLFACFTDSC.actions is an array containing all the dialed code actions allowed for the specified feature. This action must be contained in that array to be valid. An action other than ACN_NONE requires a feat_id other than zero.

Notice: Whenever a new valid enumerate value is added to the office dialing plan for the result of a dialed code of any MCC feature, the 'values' section should be updated to include the new value.

**Attribute:**
type_ci_call
**Fullname:**
Type of carrier interconnect call
**Attribute Description:**
Type of carrier interconnect call. Valid values are:

| | |
|---|---|
| FCAD1 | - Feature group D (FGD) carrier access code (CAC)+# call to cut through to the carrier's switch. |
| FCAVT | - 0ZZ call in the access tandem. |
| FCEM_REROUTE | - Emergency rerouted call through an extra equal access end office (EAEO). |
| FCINC | - 1NX call in the access tandem. |
| FCINTERLATA | - For voice or circuit switched calls, FCINTERLATA means call is inter-LATA but within the continental USA. For packet switched calls, FCINTERLATA means use preselected interexchange carrier (IECP) if one exists. |
| FCINTRALATA | - Call is within the local access and transport area (LATA). |
| FCNONCI | - For voice or circuit switched calls, this means a normal, tandem or feature activation call. For packet switched calls, FCNONCI means carrier interconnect does not apply. |
| FCINTERIM | - 950-XXXX INTERIM plan calls. |
| FCCI_NULL | - The null value. |
| FCICTOLL | - ICLATA-toll call. The FCICTOLL is not allowed if the ICLATA SF (SFID 149) is not activated. The FCICTOLL is only |

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```
                    used with desttype of FCOPERATOR.
            FCICLOCAL     - ICLATA-local call.
            FCICCONLOCAL  - ICLATA-conflict-local call.
```

**Attribute:**
trignum
**Fullname:**
Trigger number
**Attribute Description:**
This field contains the network services trigger.
Trignum is the key to RLns_trig.

**Attribute:**
nature
**Fullname:**
Nature of Number
**Attribute Description:**
Used to tell the type of nature of number.

**Attribute:**
esccode
**Fullname:**
Escape code
**Attribute Description:**
Indicates digit sequences that are exempt from off-hook delay (OHD) treatment.

**Attribute:**
feat_id
**Fullname:**
Feature ID
**Attribute Description:**
Identifies the MCC constructed feature ID. The high order six bits is of domain MFTYPE (modular feature type), which is enumerated. The enumerated value MFMLHG, for multi-line hunt group, is not allowed, as it has no actions. The low order ten bits may contain any value, provided that there is a tuple in the facname relation with this feature identification number. The `/*' (null feature) can only be assigned to certain actions, such as ACN_AUCUSE. See RLbnfeat population rules for list of actions. The null value is zero. A non zero feat_id requires an action other than ACN_NONE.

**Attribute:**
dfltrt
**Fullname:**
Default Routing Treatment
**Attribute Description:**
Identifies the type of default routing treatment to be

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used for Special Feature ASP Default Routing for 3/6/10-Digit Triggers. SFID 153 must be on before dfltrt can be changed from the default value.

**Attribute:**
ffcf1
**Fullname:**
Future field feature
**Attribute Description:**
A bit reserved for future field feature use.

**Attribute:**
ffcf2
**Fullname:**
Future field feature
**Attribute Description:**
A bit reserved for future field feature use. It was used in 5e10 for attribute anibypass.

**Attribute:**
ffcf3
**Fullname:**
Future field feature
**Attribute Description:**
A bit reserved for future field feature use.

**Attribute:**
ffcf4
**Fullname:**
Future field feature
**Attribute Description:**
A short reserved for future field feature use.

**Attribute:**
carrid
**Fullname:**
Carrier identification number.
**Attribute Description:**
Carrier identification number. This attribute is not used at this time.

**Attribute:**
annc_code
**Fullname:**
Announcement code
**Attribute Description:**
Network announcement code for ASP Default Routing (Phase 2).

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This attribute is not used at this time.

**Attribute:**
spec_dn
**Fullname:**
Specific Directory Number
**Attribute Description:**
Specific directory number for ASP Default Routing (Phase 2).
This attribute is not used at this time.

**Attribute:**
iddd_ind
**Fullname:**
International Direct Distance Dialing Indicator
**Attribute Description:**
Indicates if the specific directory number (spec_dn) is an international number. This attribute is not used at this time.

**Attribute:**
bill_ind
**Fullname:**
Billing indicator
**Attribute Description:**
Indicates if the billing information should be generated when routing to a directory number for ASP 3/6/10 Default Routing (Phase 2). This attribute is not used at this time.

**Attribute:**
anibypass
**Fullname:**
anibypass indicator
**Attribute Description:**
This attribute will be used to indicate whether Toll Digital Exchange (TDX) ANI table processing should be by-passed. Default anibypass attribute is DBNO. When set to DBYES, no TDX ANI Table processing will be performed.
Note that the digtree, that is, digit analysis selector (DAS), from the ANI table is used for TDX trunks regardless of how the anibypass attribute is populated; by-pass does not apply to the digtree field of the ANI table. Use of the anibypass attribute will be allowed for all digit analysis destination types.
The trignum attribute has precedence over this attribute. If trignum is non-zero, then ANI table processing is not performed regardless of how the anibypass attribute is populated.

**Attribute:**
lnp_trignum
**Fullname:**

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local number portability trigger number

**Attribute Description:**

This attribute is currently a spare to be used in the future.

**Attribute:**

geoport

**Fullname:**

geographic porting indicator

**Attribute Description:**

This attribute is currently a spare to be used in the future.

**Attribute:**

ported_in

**Fullname:**

Ported into this switch indicator

**Attribute Description:**

This attribute is currently a spare to be used in the future.

**Attribute:**

portdn_das

**Fullname:**

ported directory number digit analysis tree selector

**Attribute Description:**

This attribute is currently a spare to be used in the future.

**Attribute:**

home_lrn

**Fullname:**

home location routing number indicator

**Attribute Description:**

This attribute is currently a spare to be used in the future.

**Attribute:**

lrn_scrn

**Fullname:**

location routing number screening indicator

**Attribute Description:**

This attribute is currently a spare to be used in the future.

**Attribute:**

dny_xfer

**Fullname:**

Deny Transfer

**Attribute Description:**

This attribute indicates whether or not transfers are allowed on a line for this particular preliminary digit string. The transfer will be denied if this attribute is set to DBYES.

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Emergency calls must be allowed for all transfers.

**Attribute:**
o_bltrig_inh
**Fullname:**
Originating Busy Line Trigger Inhibit
**Attribute Description:**
This attribute is used to indicate whether or not to inhibit the office Originating Busy Line Trigger. Default for this attribute is DBNO. When set to DBYES, the trigger will not be invoked for these digit(s). This attribute is secured by SFID #212.

This functionality was provided by the attribute ffcf1 in 5e11.

**Attribute:**
o_natrig_inh
**Fullname:**
Originating No Answer Trigger Inhibit
**Attribute Description:**
This attribute is used to indicate whether or not to inhibit the office Originating No Answer Trigger. Default for this attribute is DBNO. When set to DBYES, the trigger will not be invoked for these digit(s). This attribute is secured by SFID #212.

This functionality was provided by the attribute ffcf3 in 5e11.

**Attribute:**
bld10dgts
**Fullname:**
build 10 digits
**Attribute Description:**
This attribute indicates whether to reconstruct to 10 digits or not. When set to DBYES, the corresponding tuples in RLdaprldgt must have the row attribute set to FCRECONSTRCT.

**Attribute:**
nodal_idx
**Fullname:**
EOLN service index
**Attribute Description:**
This attribute contains a numerical value denoting the particular EOLN service.
SFID218 must be active before this attribute is populated with a non-default value.

**Attribute:**
dn_prefd
**Fullname:**

DN PREFD indicator

**Attribute Description:**

This attribute indicates whether the ODN in the incoming SS7 GAP is to be sent to the terminating PBX as the called number. SFID218 must be active before this attribute is populated with a non-default value.

**Attribute:**

gets_hpc

**Fullname:**

GETS HPC indicator

**Attribute Description:**

This attribute allows assignment of GETS HPC to digit strings on RC View 9.5. The default value is DBNO.

The Government Emergency Telecommunications System, High Probability of Call Completion (GETS HPC) Feature is secured by SFID 279. The feature must be unlocked via RC View 8.22 before gets_hpc attribute is set to DBYES.

**Defines:**

"db/DMservalw.h"

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# DAPRM_R

## 1. Description

Root storage relation for DAPRMFNL.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20000 |
| expected tuples | 2000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTORAGE |
| ks key store | AUTO |
| density | 100 |
| tsbal - time space balance | DBSPEED |

## 3. Field Layout

```
DAPRM_R     relid = 2197  DBSTORAGE  DBACC_CIND  DBPRAM    FG      NULL
     previous    DMTABLE      (ulong: 20)    <--- key, not stored
     route_x     DMRTEIDX     (ushort: 14)
 (a) ffcf1       DMBOOL       (enum: 1)
 (b) ffcf2       DMBOOL       (enum: 1)
     noc         DMNOC        (ushort: 14)
     aspatts     DMGK14       (ulong: 14)
     dest        DMDESTIDX    (ushort: 12)
 (c) route_type  DMROUTE      (enum: 4)
     desep       DMDESEP      (ushort: 8)
     desttype    DMDESTN      (enum: 7)
 (d) dn_prefd    DMBOOL       (enum: 1)
 (e) type_ci_call  DMCITYPE     (enum: 5)
 (f) nodal_idx   DMUNS3       (ushort: 3)
     term_lata   DMLATANUM    (uchar: 5)
         User and Compacted Tuple Layout    DAPRM_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                       |                       |
  0 |                 previous              |***********************|
    |---------------+---------------+---------------+---------------|
    |                             | | |                           |   |
  4 |          route_x            |a|b|            noc            |***|
    |---------------+---------------+---------------+---------------|
    |                             |   |                       |       |
  8 |          aspatts            |***|          dest         |   c   |
    |---------------+---------------+---------------+---------------|
    |               |             | |         |     |         |     |
 12 |     desep     |   desttype  |d|    e    |  f  |term_lata|*****|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )

     route_x     DMRTEIDX     (ushort: 14)
 (a) ffcf1       DMBOOL       (enum: 1)
 (b) ffcf2       DMBOOL       (enum: 1)
     noc         DMNOC        (ushort: 14)
```

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```
    aspatts     DMGK14       (ulong: 14)
    dest        DMDESTIDX    (ushort: 12)
(c) route_type  DMROUTE      (enum: 4)
    desep       DMDESEP      (ushort: 8)
    desttype    DMDESTN      (enum: 7)
(d) dn_prefd    DMBOOL       (enum: 1)
(e) type_ci_call  DMCITYPE     (enum: 5)
(f) nodal_idx   DMUNS3       (ushort: 3)
    term_lata   DMLATANUM    (uchar: 5)
          Stored Tuple Layout      DAPRM_R
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                             | | |                           |   |
 0 |          route_x            |a|b|            noc            |***|
   |---------------+---------------+---------------+---------------|
   |                             |   |                       |       |
 4 |          aspatts            |***|          dest         |   c   |
   |---------------+---------------+---------------+---------------|
   |               |             | |         |     |         |     |
 8 |     desep     |   desttype  |d|    e    |  f  |term_lata|*****|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population rules for RLdaprm_r

### Relation Description

There are no population rules for this relation.

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# DAPRMDGT

## 1. Description

This relation contains the ODP digit analysis digit translation table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200000 |
| expected number of tuples | 10000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| l1 length of subkey1 | 4 |
| p1 position of subkey1 | 24 |
| l2 length of subkey2 | 11 |
| p2 position of subkey2 | 0 |
| l3 length of subkey3 | 3 |
| p3 position of subkey3 | 28 |
| l4 length of subkey4 | 9 |
| p4 position of subkey4 | 11 |
| l5 length of subkey5 | 1 |
| p5 position of subkey5 | 31 |
| ks key store | DBNO |
| cluster | 16 |

## 3. Field Layout

```
DAPRMDGT    relid = 971   DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL


    previous    DMTBLE15     (ulong: 20)       <--- key, not stored
    digit       DMEDIGIT     (char)    <--- key, not stored
    next        DMTABLE      (ulong: 20)
    row         DMROW        (enum: 4)
    digits      DMDIG2CNT    (uchar: 4)
(a) maxdigits   DMDIG2CNT    (uchar: 4)
(b) prefix      DMPREFIX     (enum: 3)
(c) psflag      DMBOOL       (enum: 1)
        User and Compacted Tuple Layout   DAPRMDGT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                       |       |               |
 0 |                previous               |*******|     digit     |
   |---------------+---------------+---------------+---------------|
   |                                       |       |       |       |
 4 |                  next                 |  row  | digits|   a   |
   |---------------+---------------+---------------+---------------|
   |     | |                                                       |
 8 |  b  |c|*******************************************************|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )


    next        DMTABLE      (ulong: 20)
    row         DMROW        (enum: 4)
    digits      DMDIG2CNT    (uchar: 4)
```

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```
(a) maxdigits   DMDIG2CNT    (uchar: 4)
(b) prefix      DMPREFIX     (enum: 3)
(c) psflag      DMBOOL       (enum: 1)
          Stored Tuple Layout     DAPRMDGT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                       |       |       |       |
 0 |                 next                  |  row  | digits|   a   |
   |---------------+---------------+---------------+---------------|
   |     | |                                                       |
 4 |  b  |c|*******************************************************|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population rules for RLdaprmdgt

### Relation Description

Office dialing plan (ODP) digit analysis digit translation table

This is the ODP primary digit translation table.

The distribution class for RLDAPRMDGT is group partitioned. The group type is GPD_DA and the group ID is the value of the local digit interpreter table (LDIT).

A group will exist for each of the different digit analysis selectors defined in the office (see relation RLRC_DAS). A switching module (SM) will subscribe to the groups that correspond to the primary digit trees that it needs to perform routing for the lines and trunks that terminate on that module (that is, an SM will contain those primary digit trees or LDITs that correspond to the digital analysis selectors (DASs) assigned to the lines and trunks on that SM). The administrative module (AM) never subscribes to any group.

A tuple in RLDAPRMDGT is always associated with a specific primary digit tree (LDIT), which can be associated with one or more DASs. The digit analysis selector corresponds to the group ID and will be used to determine the list of SMs that subscribe to this group (that is, contain this particular digit tree, or LDIT, corresponding to the DAS) for update purposes.

The association of LDITs, DASs, and SMs is shown in the following diagram:

```
          Primary      1:1              1:N         1:N
          Digit  <------------> LDIT <-----> DAS <-----> SMs
           Tree          |               |           |
             |           |               |           |
             v           v               v           v
```

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| RC/V View: | LDIT | LDIT | DAS | DAS-SM |
|---|---|---|---|---|
| Relations: | RLDAPRMDGT<br>RLDAPRMFNL<br>RLDA_CONFL | RLRC_LDIT | RLRC_DAS | RLDB_AMGPD |

RECENT CHANGE/VERIFY (RC/V) RULES

The definition, assignment, and population of LDITs and DASs is done according to the following view rules:

LDIT View

1. An LDIT (primary digit tree) cannot be defined unless:
   a. The LDIT has been assigned to at least one DAS (RLRC_DAS), and
   b. at least one SM subscribes to a DAS grp_id associated with the LDIT (RLDB_AMGPD).

NOTE: The order of these steps is irrelevant.

DAS-SM View

2. If an SM is added or deleted from the list of SMs that subscribe to a DAS (RLDB_AMGPD), the primary digit tree (LDIT) associated with the DAS is added to or deleted from that SM.

DAS-SM View

3. If an LDIT is associated with multiple DASs, an SM that is added or deleted from subscription to one DAS will automatically be added to or deleted from the list of SMs subscribing to all the DASs (all the grp_ids in RLDB_AMGPD) associated with the common LDIT. In addition, the LDIT associated with the DASs is added to or deleted from the SM. The following is an example:

| DAS | LDIT | PDIT | INDIT | SMs |
|---|---|---|---|---|
| 1 | 1 | 1 | 1 | 1, 5, 10 |
| 2 | 1 | 2 | 2 | 1, 5, 10 |
| 3 | 1 | 3 | 2 | 1, 5, 10 |

If SM 15 were added to DAS 1, it would also be automatically added to DAS 2 and 3. LDIT 1 would then be copied to SM 15. If SM 10 were deleted from DAS 1, it would also be deleted from DAS 2 and 3. LDIT 1 would then be removed from SM 10.

DAS-SM View

4. If the entire list of SMs associated with a DAS is deleted (RLDB_AMGPD), the primary digit tree (LDIT) is deleted from all the SMs in the list. In addition, RLRC_LDIT is updated to set RLrc_ldit.primtable to null.

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DAS-SM View

5. If the entire list of SMs is deleted from a DAS that shares a common LDIT with other DASs, only that DAS grp_id is removed from RLDB_AMGPD. The RLRC_LDIT and primary digit tree relations are not changed (that is, the LDIT continues to be associated with the other remaining DASs).

DAS View

6. If an existing LDIT (currently assigned to at least one DAS) is assigned to another new or existing DAS X (RLRC_DAS), the list of SMs subscribing to this DAS X must match the SMs subscribing to the other DASs associated with the existing LDIT (RLDB_AMGPD). If the previous LDIT associated with DAS X is an existed as a valid grp_id in RLDB_AMGPD) and this previous LDIT is no longer associated with any other DAS:

   a. The LDIT must be removed from the list of SMs that previously subscribed to DAS X.

   b. The RLRC_LDIT.primtable entry for the LDIT being removed must be set to null.

   Note that this LDIT removal must also be performed when a DAS is deleted, and the assigned LDIT is not associated with any other DAS.

ODA RULES

1. Office data administration (ODA) will subscribe SMs to DASs using a DAS-SM form that is similar to the RC/V DAS-SM view that performs DAS to SM assignment. This assignment is subject to the restrictions noted in RC/V rule #3 for multiple DASs associated with a single LDIT.

**Attribute:**
previous
**Fullname:**
current table entry from previous digit
**Attribute Description:**
Table number from one the following relations:

1. The RLda_digstrt relation.

2. The RLdaprmdgt tuple corresponding to the previous dialed inpulsed digit.

3. The RLda_ambig tuple corresponding to the previous dialed inpulsed digit.

If a new table number (previous) is added to this

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relation it must also be added to the RLrc_dgt, recent change relation.

If a new table number (previous) is added RLdaprmfnl, the number must be added to the corresponding recent change relation RLrc_fnl.

If a new table number is added to the relation RLda_confl the number must also be added to the recent change relation RLrc_con.

**Attribute:**
digit
**Fullname:**
Current dialed digit
**Attribute Description:**
Item from dialed string currently being analyzed--used as one of the keys to RLdaprmdgt.

**Attribute:**
row
**Fullname:**
current dialing state
**Attribute Description:**
Indicates the tuple type and is the principal determining factor for the valid values in all other attributes. The valid values are the following subset of domain DATYPE:

FCAMBIG - Indicates that the current digit string is a valid code while more digits may be dialed. An entry of the RLda_ambig relation will be given in the 'next' attribute. A tuple with this entry in the RLda_ambig gives another two pointers, one points back to the next tuple in the RLdaprmdgt relation, one points to the final routing data in the RLdaprmfnl relation. If digit received in critical timing RLdaprmdgt will be accessed otherwise RLdaprmfnl will be accessed.

FCCNFLCT - Indicates that multiple conflct codes exist. Attribute 'next' contains a conflict table number. If the conflict can be resolved by a prefix, attribute 'prefix' specifies the prefix-resolved code, and 'digits' is the number of digits expected for the prefix resolved code.

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```
        FCCONT    - Continue digit analysis in RLdaprmdgt
                    with the next digit received.
        FCFAT     - Indicates that a foreign numbering plan
                    area (NPA) LDIT is used.
        FCFAT     - Indicates that a foreign NPA LDIT is used.
        FCRANGE   - Indicates that a code conflict exists
                    among a contiguous range of quantities
                    of additional digits dialed.  Each of
                    the quantities in the range is analyzed
                    in the RLda_conflct relation.
                    Only used by international direct distance
                    dialing (IDDD) call at the moment.
                    NOTE:  For private branch exchange (PBX)
                    calls.
                    (RLfc_porttyp.servclass=FC_PBX or FC_PDID)
                    the RLda_conflct.desttype = FCIDDDSTST.
        FCREMAIN  - Used when digit analysis is complete
                    but additional digits are to be collected
                    without digit analysis. The remaining digits
                    are usually passed on to a directory number
                    translation or outpulsed over a trunk. This
                    is the most commonly used row type.
                    The 'next' attribute specifies the
                    entry point in the RLdaprmfnl relation
                    for accessing routing data.  A 'next'
                    value of zero is reserved for vacant
                    codes.
        FCSAC_CALL - Service access code call.  The 'next'
                    attribute will give a table entry
                    in the RLda_ambig relation which will
                    contain a pointer 'final' point to all
                    the routing data in the RLdaprmfnl.
                    The carrier ID will be specified
                    in the 'next' attribute in the
                    RLda_ambig tuple.
        FCTWOCONF - Indicates that a code conflict exists
                    which may be resolved by analyzing
                    exactly two quantities of additional
                    digits dialed (or inpulsed) in the
                    RLda_conflct relation.
        FCTRANDONE - Indicates primary translation is
                    complete but a selective dialing request
                    may exist.  Use the value specified
                    by the 'digits' attribute to determine
                    the number of digits to collect.  The
                    'next' attribute gives the RLda_ambig
                    table entry.  Use the RLda_ambig.final
                    value as the original dialing request.
                    The value of RLda_ambig.next should be
                    used to begin remaining digit translation.
```

**Attribute:**

next

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**Fullname:**
Next table entry
**Attribute Description:**
The usage depends upon the value of the row attribute.

1. If row is FCCONT or FCFAT, this attribute contains an RLdaprmdgt relation table number from 1 to 32767 and there must be at least one RLdaprmdgt tuple with its previous attribute equal to this value.

2. If row is FCCNFLCT, FCRANGE or FCTWOCONF, 'next' contains an RLda_conflct relation table number from 1 to 1048575 and there must be at least one tuple in RLda_conflct with its 'table' attribute equal to this value.

3. If row is FCAMBIG, FCTRANDONE or FCSAC_CALL, this attribute contains an RLda_ambig relation table number from 1 to 1048575 and there must be exactly one RLda_ambig tuple with its 'table' attribute equal to this value.

4. If row is FCREMAIN, 'next' contains RLdaprmfnl relation table number from 0 to 1048575 and there must be exactly one tuple in RLdaprmfnl with its 'previous' attribute equal to this value. Tuples with index 0 and 1048575 in the RLdaprmfnl are reserved for FCVACANT destination type. Upon deletion of a tuple in RLdaprmdgt when 'row' is FCREMAIN, the corresponding tuple in RLdaprmfnl should be left untouched because of the many-to-one mapping.

**Attribute:**
digits
**Fullname:**
Number of digits need to be specified
**Attribute Description:**
The usage depends upon the value of the row attribute.

1. If row is FCREMAIN or FCSAC_CALL, digits is the remaining number of digits to collect without analysis.

2. The following rules apply to a rowtype of FCCNFLCT:

   a. If the NBR OF DIGITS field on RCV 9.3 (ODA form 5300-3/5) is populated AND the PREFIX field is NULL

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AND there are just two entries on the
conflict page (9.3 page 2), then:

digits = NBR OF DIGITS from 9.3 - the
number of digits on the
INCOMING DIGIT field from 9.3

maxdigits = NBR DIG field on
the conflict entry page
(9.3 page 2) which
does NOT match NBR OF
DIGITS - number of
digits on INCOMING DIGIT field

The conflict will be resolved in the
following manner:

If a 1+ prefix is dialed,
the number digits remaining
to be collected = maxdigits attribute.
If no prefix is dialed, the
number of digits remaining to
be collected = digits attribute.

b. If the DIGITS field is populated
on 9.3, (ODA form 5300-3/5)
And the PREFIX field is something
other than NULL, then:

digits = NBR OF DIGITS from 9.3 - the
number of digits on the
INCOMING DIGIT field from 9.3

maxdigits = 0

The conflict is resolved in the following
manner:

If the prefix dialed matches
the value in the PREFIX field,
then the digits attribute
is the remaining number of digits
to collect for prefix resolved conflicts.

If the prefix dialed does not match
the value in the PREFIX field,
the conflict is resolved by
timing.

c. For the City Codes Routing on International
Calls feature (SFID 325), if
daprmfnl.type_ci_call is FCIDDD and
daprmfnl.desttype is FCIDDDSTS, then:

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digits = lowest NBR DIG field on the conflict entry page - number of digits on INCOMING DIGITS field from RC/V 9.3

maxdigits = highest NBR DIG field on the conflict entry page - number of digits on INCOMING DIGITS field from RC/V 9.3

These fields are modified through RC/V 9.3, not 9.6.

3. If row is FCRANGE, digits is the number of digits to collect before starting digit analysis in the RLda_conflct relation. The full range for customer dialed IDDD calls is 7-15 digits if the IDDD15 secured feature (SFID223) has been purchased and turned on; otherwise 7-12 digits is the allowed range--(includes country code [CC] and national number [NN]). This implies that this field have a value of at least four for the translation of three digit country codes, at least five for two digit CC's and at least six for one digit CC's.

   For Operator Services Position System (OSPS) IDDD, an operator may enter a range of 4-15 digits if the IDDD15 secured feature (SFID223) has been purchased and turned on; otherwise 4-12 digits is the allowed range (includes CC and NN). OSPS DASs can be recognized by incoming trunks with a service class of FC_ISPOPR, FC_OPR_DIOR, or FC_AISOA. The office must also be an OSPS office (Glospsta equal to DBYES). OSPS international dialing requires the country code and at least three national number digits. Since the CC can be one-three digits in length, the minimum range is four-six digits. This field should be populated as follows:

   If the operator enters a three digit CC, then the minimum number of digits allowed is six and this field is populated to three (six minus three).

   If two is entered and the minimum is five, then this field is three (five minus two).

   If a one digit CC is entered and a minimum of four is allowed, then this field is three (four minus one).

   Therefore this field should always have a value

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of three (for one, two, or three digit CC's) on OSPS switches.

4. If row is FCTWOCONF, digits is the smaller of the two valid remaining numbers of digits to analyze in the RLda_conflct relation. The valid range is 0 (the null value) to 15.

**Attribute:**
maxdigits
**Fullname:**
Maximal number of digits need to be specified
**Attribute Description:**
The usage depends upon the value of the row attribute.

1. If row is FCRANGE, maxdigits is the maximum number of digits to analyze in the RLda_conflct relation.

2. If row is FCTWOCONF, maxdigits is the larger of the two valid remaining numbers of digits to analyze in the RLda_conflct relation.

3. If the row is FCCNFLCT, the maxdigits and digits field may be populated. See the usage section of the digits attribute for a description of how maxdigits and the digits field are used.

The valid range is 0 (the null value) to 15.

**Attribute:**
prefix
**Fullname:**
Prefix index
**Attribute Description:**
Indexes dialed prefix. Used for conflict resolution.

**Attribute:**
psflag
**Fullname:**
Packet switch indicator
**Attribute Description:**
Must be DBNO for voice and circuit switched calls.
Must be DBYES for packet switched calls.
Default value is DBNO.
This field has no null value.

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# DAPRMFNL

## 1. Description

This is an OP VIEW virtual relation for Primary Digit Analysis Final Translation. This is a virtual update relation. The root storage relation is RLdaprl_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation DAPRMFNL.

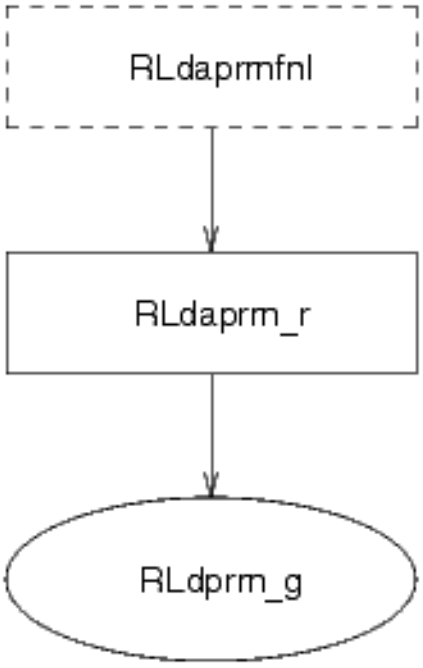


**Figure 1 Virtual Relation DAPRMFNL**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
DAPRMFNL    relid = 975   DBSTATIC   DBACC_OPV   DBNOTODD  FG      NULL

     previous    DMTABLE      (ulong: 20)       <--- key
     spec_dn     DMBCD_DN     (struct)
         dn0         DMUNS4       (ushort: 4)
         dn1         DMUNS4       (ushort: 4)
         dn2         DMUNS4       (ushort: 4)
         dn3         DMUNS4       (ushort: 4)
         dn4         DMUNS4       (ushort: 4)
         dn5         DMUNS4       (ushort: 4)
         dn6         DMUNS4       (ushort: 4)
         dn7         DMUNS4       (ushort: 4)
         dn8         DMUNS4       (ushort: 4)
         dn9         DMUNS4       (ushort: 4)
         dn10        DMUNS4       (ushort: 4)
         dn11        DMUNS4       (ushort: 4)
```

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```
        dn12        DMUNS4       (ushort: 4)
        dn13        DMUNS4       (ushort: 4)
        dn14        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
    trignum     DMUNS8       (ushort: 8)
    lnp_trignum  DMUNS8       (ushort: 8)
    portdn_das  DMDA_TREE    (ushort: 7)
(a) iddd_ind    DMBOOL       (enum: 1)
(b) dfltrt      DMDFLTRT     (enum: 3)
(c) nature      DMNATURE     (enum: 3)
(d) bill_ind    DMBOOL       (enum: 1)
(e) anibypass   DMBOOL       (enum: 1)
    annc_code   DMSSPACODE   (ushort: 16)
    ffcf4       DMUSHORT     (ushort)
    route_x     DMRTEIDX     (ushort: 14)
(f) ffcf1       DMBOOL       (enum: 1)
(g) ffcf2       DMBOOL       (enum: 1)
    noc         DMNOC        (ushort: 14)
    desep       DMDESEP      (ushort: 8)
    desttype    DMDESTN      (enum: 7)
(h) dn_prefd    DMBOOL       (enum: 1)
(i) type_ci_call  DMCITYPE     (enum: 5)
(j) nodal_idx   DMUNS3       (ushort: 3)
    term_lata   DMLATANUM    (uchar: 5)
    dest        DMDESTIDX    (ushort: 12)
(k) route_type  DMROUTE      (enum: 4)
(l) esccode     DMBOOL       (enum: 1)
(m) geoport     DMBOOL       (enum: 1)
(n) ported_in   DMBOOL       (enum: 1)
(o) ignore_lnptn  DMBOOL       (enum: 1)
(p) home_lrn    DMBOOL       (enum: 1)
(q) lrn_scrn    DMBOOL       (enum: 1)
(r) dny_xfer    DMBOOL       (enum: 1)
(s) inh_dnt     DMBOOL       (enum: 1)
(t) o_bltrig_inh  DMBOOL       (enum: 1)
(u) o_natrig_inh  DMBOOL       (enum: 1)
(v) ffcf3       DMBOOL       (enum: 1)
(w) gets_hpc    DMBOOL       (enum: 1)
(x) rel_link    DMBOOL       (enum: 1)
    carrid      DMCARRID     (array [ 4 ] of char )
        User, Compacted and Stored Tuple Layout   DAPRMFNL
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                               |                 |
 0 |                 previous                      |*****************|
   |===============+=========== spec_dn ===========+===============|
   |       |       |       |       |       |       |       |       |
 4 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 8 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+===============+===============+===============|
   |               |               |             | |     |     | | |
```

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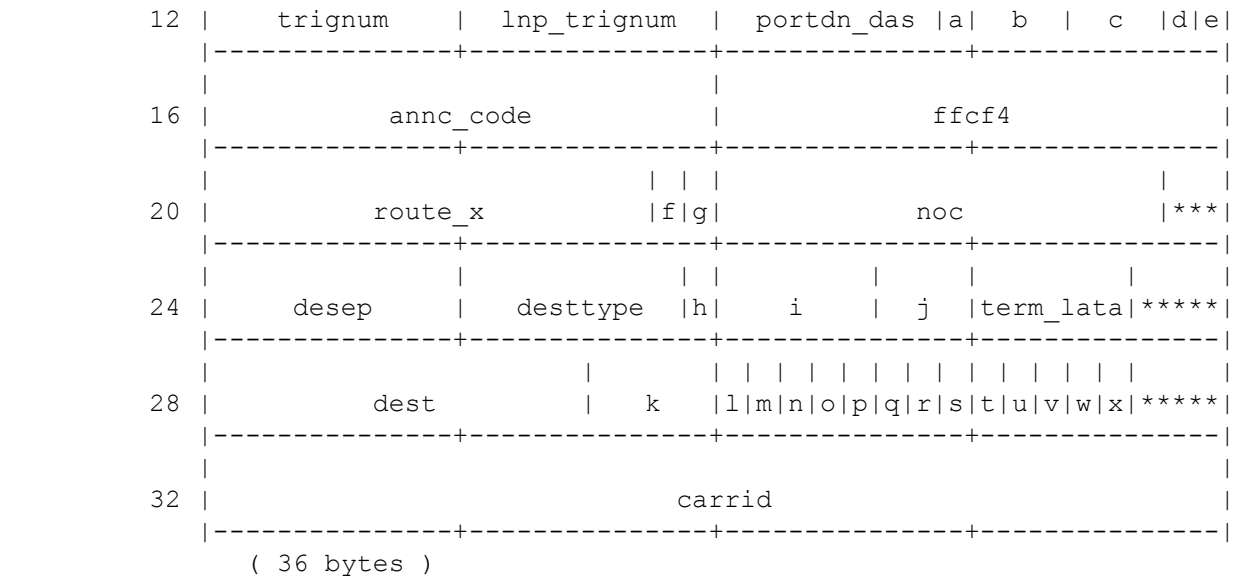


## 4. Population rules for RLdaprmfnl

### Relation Description

Office dialing plan (ODP) digit analysis primary translation final digit table

These are final digit analysis tables for ODP analysis.

The distribution class for RLDAPRMFNL is group partitioned. The group type is GPD_DA and the group ID is the value of the local digit interpreter table (LDIT).

A tuple in RLDAPRMFNL is always associated with a specific primary digit tree (LDIT), which can be associated with one or more digit analysis selectors (DASs). The LDIT corresponds to the group ID and will be used to determine the list of switching modules (SMs) that subscribe to this group for update purposes.

See the population rules for RLDAPRMDGT for the rules that describe how this relation is administered and populated.

Since 5E4(2), the initial data for this relation will not have redundant tuples, that is, duplicate values for non-key attributes, except when the 'desttype' attribute equals FCTLNACC. Therefore, other than the exception, tuples in RLdaprmdgt and RLda_ambig map in a many-to-one fashion to RLdaprmfnl. Because of this many-to-one relationship, tuples in RLdaprmfnl should never be deleted.

**Attribute:**

previous

**Fullname:**

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Table entry associated with the previous dialed digit

**Attribute Description:**

Table number from either the RLdaprmdgt or the RLda_ambig relation tuple. The valid range is from 0 to 1048575. Table numbers 0 and 1048575 are always populated by ODA for vacant code and this tuple should never be deleted or modyfied when a vacant code is being deleted or added to the LDIT (RC Views 9.3 and 9.15).

**Attribute:**

dest

**Fullname:**

Destination index

**Attribute Description:**

Destination index is used in routing.

**Attribute:**

desttype

**Fullname:**

Destination type

**Attribute Description:**

A destination type used to indicate various actions to be taken on receipt of this digit. Valid values are the following subset of the DESTN domain:

FC911 - Code conversion and 911 access;
FCASST411 - Code conversion to local information;
FCASST555 - Access to 555 information.

Note that if the desttype is FCASST555 and the type_ci_call is FCINTERLATA and the call is dialed without a numbering plan area (NPA), the call will be blocked. In order for an inter-LATA call which is dialed without an NPA to be routed, the desttype must be FCNORMAL.

FCAUTINW - Automated inward call. Calls with this desttype are originated by a distant operator and are routed to an automated query. This is a valid desttype only if the GLospsta parameter has the value DBYES, that is, only if the office receiving the call has an Operator Services Position System (OSPS).
FCBUS811 - Code conversion to business office.
FCHNPA - Reroutes call via RT_HNPA tuple in RLrt_fixedri.
FCINWATS - Inward wide area telecommunications service (INWATS) call.
FCIDDDSTST - Multistage international outbound call that is routed to a multi-frequency (MF) trunk, a Common Channel Signaling System Number 6 (CCIS6) trunk, or a Common Channel Signaling System Number 7 (CCS7) integrated services digital network (ISDN) user part (ISUP) trunk.

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```
Local office (Gloftyp = DBNO):  This is a valid desttype for the
digit sequence 011 + (7-12 digits).

Toll office (Gloftyp = DBYES):  This is a valid desttype for digit
sequences that SHOULD NOT receive the fully coded addressing treatment.
The possible digit sequences are:

1NX + YYY + CCC
011 + PCC
18X
where,
        N     - Digit range is two to nine
        X     - Digit range is zero to nine
        YYY   - International carrier (three digits)
        CCC   - Padded country code (three digits)
        PCC   - Paired country code (three digits)

FCIDDDFCA     - Address sequence of an international outbound call
                received by a toll office (Gloftyp = DBYES) and is
                translated with a digit analysis selector (DAS) of 81.
                This desttype can be assigned to the
                to the following digit sequences:

                CC + NN
                0/1X + CC + NN
                where,
                        X     - Digit range is zero to nine
                        CC    - One to three digit country code
                        NN    - National number
                        0/1X  - International switching center (ISC)
                                ID (two digits)
                        CC+NN - Must be 7 to 12 digits

                The international outbound call has been processed
                using fully coded addressing.  The normal case is
                to route this call on a CCIS6 or CCS7 ISUP outgoing
                trunk to a 4ESS(TM) toll office.  No RC or ODA cross
                checks should be added between DAS 81 and FCIDDDFCA
                dest type.

FCSTG1FCA     - The first stage of a multistage international
                outbound call entering a toll office
                that SHOULD receive the fully coded addressing
                treatment.  This call will leave the toll office in a
                CCIS6/CCS7 ISUP single stage.  This desttype can be
                assigned to the following digit sequences:

                1NX + YYY + CCC
                011 + PCC
                18X
                where,
                        N     - Digit range is two to nine
                        X     - Digit range is zero to nine
```

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```
                        YYY   - International carrier (three digits)
                        CCC   - Padded country code (three digits)
                        PCC   - Paired country code (three digits)

FCOSOIWTS     - Originating screening office (OSO) INWATS call.
                Requires querying an INWATS network control point (NCP)
                database to route the call; other attribute options
                with this desttype are:

                type_ci_call  - Must be in FCNONCI, FCINTRALATA,
                                or FCINTERLATA.

                route_x       - Optional
                route_type    - Optional
                dest          - Optional
                term_lata     - Zero

FCADDON       - Alliance(R) teleconferencing add-on call.  Requires
                querying a network call denial (NCD) database to screen
                the originator and an INWATS NCP query to route the
                call.  This is only a valid type if the Gl_oso and
                Glospson parameters are set to DBYES.
FCMEETME      - Alliance(R) teleconferencing meet-me call.
                Requires querying an NCD database to screen the
                originator.  This is only a valid type if the Gl_oso
                and Glospson parameters are set to DBYES.
FCNS800       - Service switching point (SSP) number services call.
                Will require a query to an external service control
                point (SCP) database to obtain routing information.
                This is only a valid type if the GLssp global parameter
                has a value of DBYES, indicating that the office is an
                SSP office.
FCNORMAL      - Plain old telephone service (POTS).
FC900         - 900 calls.
OADA2VDT      - Directory assistance (DA) calls routed to video
                display terminal (VDT).
OAOPNIT       - Non-initial signaling point (ISP) calls routed to a
                VDT.
FCOPINW       - Operator assisted inward call.  Calls with this
                desttype are originated by a distant operator and are
                routed to an OSPS operator position.  This is a valid
                desttype only if the GLospsta parameter has the value
                DBYES, that is, only if the office receiving the call has
                an OSPS.
FCREPR611     - Code conversion to repair service.
FCTLNACC      - Test line access which uses RLtmtsc.
FCSDNACCESS   - Software defined network access.
FCSDNEGRESS   - Software defined network egress.
FCVACANT      - Reroutes call via RT_VACANT tuple in RLrt_fixedri.
FCAPSDN       - Access to software defined
                network at an action point (ACP) switch.  This is a
                valid desttype only if the Glapsdn parameter has the
                value of DBYES.
FCLNACP       - Leased network at an action point.
```

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```
        FCSPAB800     - Address sequence of a special access basic 800 call
                        received by the toll office that will terminate to the
                        special access basic 800 customer.  This call will be
                        routed to a trunk group with a class of service (COS)
                        of FC_SPAB800.  In a non-terminating toll office this
                        call is routed as normal long distance call.
        FCSPAM800     - Address sequence of a special access MEGACOM(R) 800 call
                        received by the toll office that will terminate to the
                        special access MEGACOM(R) 800 customer.  This call will be
                        routed to a trunk group with a COS of FC_SPAM800.  In a
                        non-terminating toll office, this call is
                        routed as a normal long distance call.
        NULLDEST      - The null value.
        TMCSTL        - Coin station test line access.
        TMLTDCALL     - Access to local test desk.
        TMOCTL        - Access to open circuit test line.
        TMSRTT        - Access to station ringer/touch-tone test
                        circuit.
        TMBRITL       - Access to basic rate interface (BRI) dial up
                        test line.
        TMBBRITL      - Access to billed BRI dial up test line.
        WETESTCAL     - Test call associated with library programs.
        FCAPX         - Autoplex(R).
```

**Attribute:**

route_x

**Fullname:**

Route index

**Attribute Description:**

This attribute was introduced in 5E2(1) to enable the routing and terminal allocation (RTA) to read the route index and type when the digit analysis relations are read. Either the route index (range 0-AVRIMAX()), a normalized office code (range 1-AVNOCMAX()), or a poly grid route pattern (range 1-AVRIMAX()) are allowed. This depends on the value of the route type. This dependency follows the following rules:

| ROUTE_TYPE | ROUTE INDEX |
|---|---|
| RTE_DNTRAN | A normalized office code (NOC), range 1-AVNOCMAX(). |
| RTE_HUNT | A route index, range 1-AVRIMAX(). |
| RTE_NULL | Zero |
| RTE_POLYGRID | A pattern (key to RLrt_poly) in the range 1-AVRIMAX(). |

**Attribute:**

route_type

**Fullname:**

Route type

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**Attribute Description:**

A route_type of RTE_POLYGRID is valid only in DSN offices (Gldsnopt = DBYES). If route_type = RTE_POLYGRID, then verify existence of a tuple in RLrt_poly with key pattern = ri and ri > 0. Also, the destination index (DI) should appear in RLrtppscrn if the route_type is RTE_POLYGRID, and in RLrt_scrning if the route_type is RTE_HUNT.

See poprules for RLrt_scrning, RLdaprldgt, RLda_conflct, and RLrtppscrn and following the 'conversion rules'.

**Attribute:**

desep

**Fullname:**

Destination separation class

**Attribute Description:**

Groups calls for statistical purposes--used for division of revenue study.

**Attribute:**

type_ci_call

**Fullname:**

Type of carrier interconnect call

**Attribute Description:**

Valid values are:

| | |
|---|---|
| FCCI_NULL | - The null value. |
| FCCOMPETE | - Call to an area in which the Bell Operating Companies (BOC) and carriers compete on an equal basis. |
| FCCONFLICT | - Seven digit call local access and transport area (LATA) conflict. |
| FCINTRALATA | - Call is within the LATA. |
| FCINTERLATA | - For voice or circuit switched calls, FCINTERLATA means call is inter-LATA but within the continental USA. For packet switched calls, FCINTERLATA means use preselected interexchange carrier (IECP) if one exists. |
| FCNONCI | - For voice or circuit switched calls, this means a normal, tandem or feature activation call. For packet switched calls, FCNONC means carrier interconnect does not apply. |
| FCPRIVELEGED | - Inter-LATA call handled by the BOC extended area service call which crosses a LATA boundary. |
| FCSAC | - Service access code call. |
| FCINTERIM | - 950-XXXX interim plan call. |
| FCICTOLL | - ICLATA-toll call. The FCICTOLL is not allowed if the ICLATA SF (SFID 149) is not activated. |
| FCICLOCAL | - ICLATA-local call. |
| FCICCONTOLL | - ICLATA-conflict-toll call. The FCICCONTOLL is not allowed if the ICLATA SF (SFID 149) is not activated. |
| FCICCONLOCAL | - ICLATA-conflict-local call. |
| FCWZ1 | - Call is to world zone one outside continental U.S. |

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**Attribute:**
trignum
**Fullname:**
Trigger number
**Attribute Description:**
This field contains the network services trigger. Trignum is the key to RLns_trig.

**Attribute:**
nature
**Fullname:**
Nature of Number
**Attribute Description:**
This field contains an enumeration that aids transaction capabilities application part (TCAP) in formulating nature of number for use in query formulation.

**Attribute:**
esccode
**Fullname:**
Escape code
**Attribute Description:**
Indicates digit sequences that are exempt from off hook delay (OHD) treatment.

**Attribute:**
term_lata
**Fullname:**
Indicates terminating LATA identity
**Attribute Description:**
Takes on values from 0 to 31 to indicate the terminating LATA identity of the dialed digits for NCD and also OSPS LATA mapping.

Value 0 - Default value.
Value 1 - Indicates LATAs not subtending the toll office.
Values 2-31 - Indicates a subtending LATA of the toll office.

Additional population Rules required for an OSPS which does not have multiple digit trees--indicated by Gloftyp = YES
Glatmap = DBYES (LATA mapping turned on) and ci type = NONCI

Value 0 - Default value.
Value 1 - Indicates LATAs not subtending the toll office.
Value 2-31 - Indicates a subtending LATA of the toll office. It also indicates a subtending LATA of the OSPS for all NPA-NXX's contained in LATA's which this OSPS serves AND for which it has PARTIAL service for (shared LATA).

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Value of 1 for those LATA's not subtending this toll office.

**Attribute:**
dfltrt
**Fullname:**
Default Routing Treatment
**Attribute Description:**
Identifies the type of default routing treatment to be used for Special Feature ASP Default Routing for 3/6/10-Digit Triggers. SFID153 must be turned on before dfltrt can be changed from the default value.

This attribute may also be used for local number portability triggers.

**Attribute:**
ffcf1
**Fullname:**
Future Field Feature
**Attribute Description:**
A bit reserved for future field feature use.

**Attribute:**
ffcf2
**Fullname:**
Future Field Feature
**Attribute Description:**
A bit reserved for future field feature use.

**Attribute:**
ffcf3
**Fullname:**
Future Field Feature
**Attribute Description:**
This boolean attribute is reserved for future field feature use. It was used in 5e10 for TDX attribute anibypass.

**Attribute:**
ffcf4
**Fullname:**
Future Field Feature
**Attribute Description:**
A short reserved for future field feature use.

**Attribute:**
carrid
**Fullname:**

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Carrier identification number.

**Attribute Description:**

Carrier identification number. This attribute is not used at this time.

**Attribute:**

annc_code

**Fullname:**

Announcement code

**Attribute Description:**

Network announcement code for ASP Default Routing (Phase 2). This attribute is not used at this time.

**Attribute:**

spec_dn

**Fullname:**

Specific Directory Number

**Attribute Description:**

Specific directory number for ASP Default Routing (Phase 2). This attribute is not used at this time.

**Attribute:**

iddd_ind

**Fullname:**

International Direct Distance Dialing Indicator

**Attribute Description:**

Indicates if the specific directory number (spec_dn) is an international number. This attribute is not used at this time.

**Attribute:**

bill_ind

**Fullname:**

Billing indicator

**Attribute Description:**

Indicates if the billing information should be generated when routing to a directory number for ASP 3/6/10 Default Routing (Phase 2). This attribute is not used at this time.

**Attribute:**

anibypass

**Fullname:**

anibypass indicator

**Attribute Description:**

This attribute will be used to indicate whether Toll Digital Exchange (TDX) ANI table processing should be by-passed. Default for this attribute is DBNO. When set to DBYES, no TDX ANI Table processing will be performed.

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Note that the digtree, that is, digit analysis selector (DAS), from the ANI table is used for TDX trunks regardless of how the anibypass attribute is populated; by-pass does not apply to the digtree field of the ANI table. Use of the anibypass attribute will be allowed for all digit analysis destination types. The trignum attribute has precedence over this attribute. If trignum is non-zero, then ANI table processing is not performed regardless of how the anibypass attribute is populated.

**Attribute:**
lnp_trignum
**Fullname:**
local number portability trigger number
**Attribute Description:**
When the dialed or implied NPA-NXX is portable, this attribute contains the query trigger number to be used to determine the location routing number of the called number. SFID174 must be active before lnp_trignum may be populated with a non-default value.

**Attribute:**
geoport
**Fullname:**
geographic porting indicator
**Attribute Description:**
This attribute indicates whether geographic porting has occurred with respect to DNs associated with the designated LDIT, MLDIT, or RDIT entry.

**Attribute:**
ported_in
**Fullname:**
ported into this switch indicator
**Attribute Description:**
This attribute indicates whether one or more LDIT, MLDIT, or RDIT entry-associated terminations exist in this office that were ported in from another office. SFID174 must be active before ported_in may be set to DBYES.

**Attribute:**
portdn_das
**Fullname:**
ported directory number digit analysis tree selector
**Attribute Description:**
This attribute is currently a spare to be used in the future.

**Attribute:**
ignore_lnptn

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**Fullname:**
ignore the local number portability trigger number
**Attribute Description:**
This attribute is meaningful only when the tuple corresponds to an RDIT recent change view.

When set to DBYES and the lnp_trignum attribute is 0, then this lnp_trignum, ported_in, and geoport values will be ignored and the lnp_trignum, ported_in, and geoport from the associated LDIT or MLDIT will be used.

**Attribute:**
home_lrn
**Fullname:**
home location routing number indicator
**Attribute Description:**
This attribute is used for the analysis of location routing numbers (LRNs). When set to DBYES the LRN is owned by (or homes on) this switch.

**Attribute:**
lrn_scrn
**Fullname:**
location routing number screening indicator
**Attribute Description:**
This attribute is used for the analysis of location routing numbers (LRNs). When set to DBYES the screening information associated with the LRN is valid. This information consists of the code index (RLdaprmfnl.dest), type ci call (RLdaprmfnl.type_ci_call), and prefix (RLdaprmdgt.prefix).

**Attribute:**
dny_xfer
**Fullname:**
Deny Transfer
**Attribute Description:**
This attribute indicates whether or not transfers are allowed on a line for this particular primary digit string. The transfer will be denied if this attribute is set to DBYES. Emergency calls must be allowed for all transfers.

**Attribute:**
inh_dnt
**Fullname:**
inhibit the check for dialed number trigger
**Attribute Description:**
This attribute is used for the local number portability feature. When set to DBYES it indicates that a dialed number trigger should be not be checked for when a location routing number has been provided

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in the IAM message for an incoming ISUP call to a ported number.

**Attribute:**
o_bltrig_inh
**Fullname:**
Originating Busy Line Trigger Inhibit
**Attribute Description:**
This attribute is used to indicate whether or not to inhibit the office Originating Busy Line Trigger. Default for this attribute is DBNO. When set to DBYES, the trigger will not be invoked for these digit(s). This attribute is secured by SFID #212.

This functionality was provided by the attribute ffcf1 in 5e11.

**Attribute:**
o_natrig_inh
**Fullname:**
Originating No Answer Trigger Inhibit
**Attribute Description:**
This attribute is used to indicate whether or not to inhibit the office Originating No Answer Trigger. Default for this attribute is DBNO. When set to DBYES, the trigger will not be invoked for these digit(s). This attribute is secured by SFID #212.

This functionality was provided by the attribute ffcf2 in 5e11.

**Attribute:**
nodal_idx
**Fullname:**
EOLN service index
**Attribute Description:**
This attribute contains a numerical value denoting the particular EOLN service.
SFID218 must be active before this attribute is populated with a non-default value.

**Attribute:**
dn_prefd
**Fullname:**
DN PREFD indicator
**Attribute Description:**
This attribute indicates whether the ODN in the incoming SS7 GAP is to be sent to the terminating PBX as the called number.
SFID218 must be active before this attribute is populated with a non-default value.

**Attribute:**
gets_hpc

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**Fullname:**
GETS HPC indicator
**Attribute Description:**
This attribute allows assignment of GETS HPC to digit strings of RC Views 9.3, 9.9, and 9.15.

The Government Emergency Telecommunications System, High Probability of Completion (GETS HPC) Feature is secured by SFID 279. The feature must be unlocked via RC View 8.22 before gets_hpc attribute is set to DBYES.

**Attribute:**
rel_link
**Fullname:**
Release Link Indicator
**Attribute Description:**
This attribute indicates whether the dialed digits are eligible for Release Link processing.

**Defines:**
"db/DMservalw.h"

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# DAS_SCRN

## 1. Description

This relation contains a list of DAS NPA NXX combinations to screen for long distance. Created for LDCW SF enhancement.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1587 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| foldtype | DBGC31 |
| head page size | 256 |
| data page size | 256 |
| permutation type | un_perm |

## 3. Field Layout

```
DAS_SCRN    relid = 2238  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     digtree     DMDA_TREE    (ushort: 7)       <--- key
     npa         DMNPA        (array [ 3 ] of char )    <--- key
     nxx         DMNXX        (array [ 3 ] of char )    <--- key
     xtra1       DMCHAR       (char)
 (a) xtra2       DMBOOL       (enum: 1)
 (b) xtra3       DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout   DAS_SCRN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               | |                                           |
  0 |   digtree     |*|                      npa                  |
    |---------------+---------------+---------------+---------------|
    |                                                 |               |
  4 |                       nxx                       |     xtra1     |
    |---------------+---------------+---------------+---------------|
    | | |                                                           |
  8 |a|b|***********************************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLdas_scrn

**Relation Description** DAS NPA NXX screening relation.
This relation is used to screen ccs7 calls to see if we want to treat them as local. Created for LDCW SF enhancement.

**Attribute: digtree**

**Fullname:** DIGTREE

**Attribute Description** DAS to use in screening.

**Attribute: npa**

**Fullname:** NPA

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**Attribute Description** NPA to treat as local.

**Attribute: nxx**

**Fullname:** NXX

**Attribute Description** NXX to treat as local.

**Attribute: xtra1**

**Fullname:** xtra1 spare

**Attribute Description** Spare special feature attribute.

**Attribute: xtra2**

**Fullname:** xtra2 spare

**Attribute Description** Spare special feature attribute.

**Attribute: xtra3**

**Fullname:** xtra3 spare

**Attribute Description** Spare special feature attribute.

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# DB_AMGPD

## 1. Description

DB AM Group Partitioned Data The purpose of this relation is to identify which processors a group resides on. Each tuple contains one bit per processor, where bit 0 represents the Logical Processor.

This is a virtual update relation. The root storage relation is RLamgpd_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation DB_AMGPD.

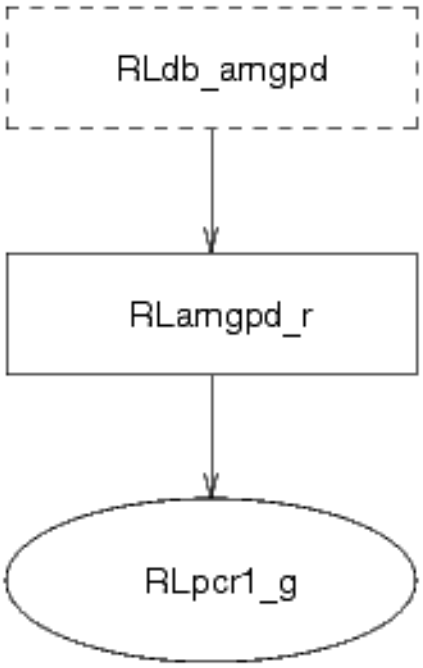


**Figure 1 Virtual Relation DB_AMGPD**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
DB_AMGPD    relid = 499   DBSTATIC   DBACC_OPV   DBNOTODD  LP      RCMAP
     grp_type    DMGPD_GPS    (enum: 7)     <--- key
     grp_id      DMMCC_FID    (ushort)     <--- key
     pcr_map1    DMGPDMAP     (long)
     pcr_map2    DMGPDMAP     (long)
     pcr_map3    DMGPDMAP     (long)
     pcr_map4    DMGPDMAP     (long)
     pcr_map5    DMGPDMAP     (long)
     pcr_map6    DMGPDMAP     (long)
     pcr_map7    DMGPDMAP     (long)
         User, Compacted and Stored Tuple Layout   DB_AMGPD
```

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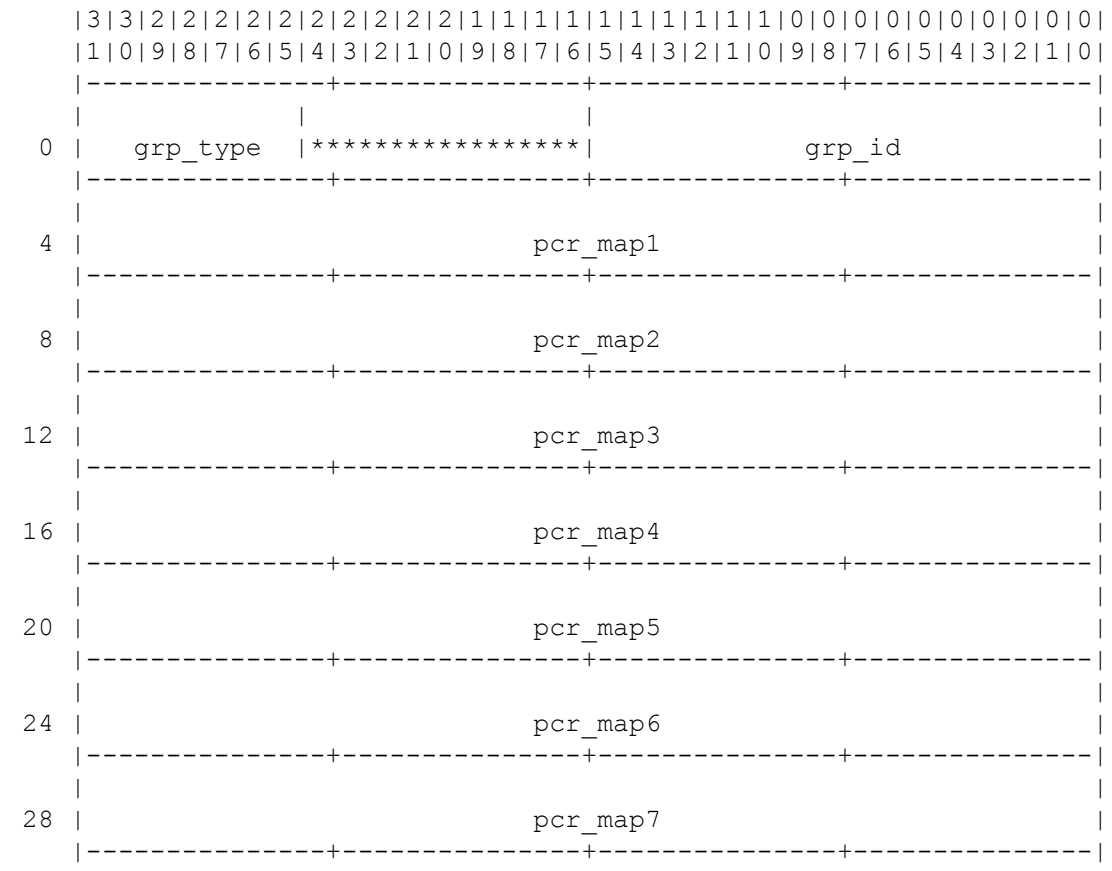
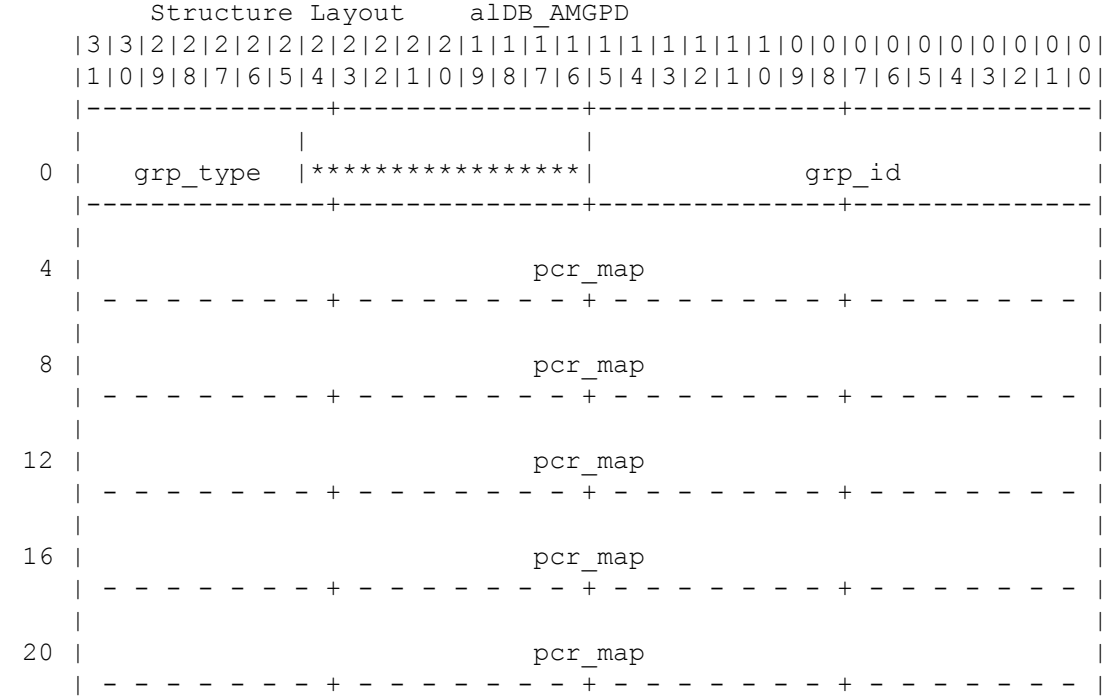



( 32 bytes )

```
domain alDB_AMGPD struct  (3 sub-attributes)
    grp_type    .0fake       (enum)
    grp_id      unsigned short (ushort)
    pcr_map     .3.fake      (array [ 7 ] of long )
```

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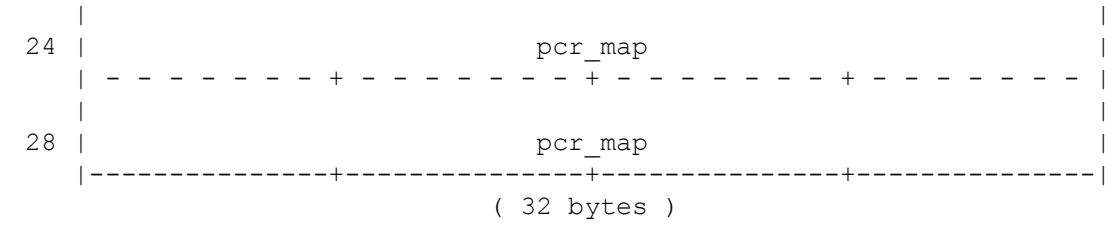


## 4. Population Rules for RLdb_amgpd

**Relation Description** DB AM Group Partitioned Data.
The purpose of this relation is to identify which processors a group resides on. Each tuple contains one bit per processor, where bit 0 represents the AM, CMP or both.

**Attribute: grp_type**

**Fullname:** Type of GPD group.

**Attribute Description**

This is an enumeration. Valid values are defined in DMgpd_gps.G.

```
GPDPOTS_LINE,  GPDDPLAN,   GPDAD1,  GPDAD2,  GPDAD3,
GPDTG, GPDARS, GPDPFA,     GPDCL_COM,        GPDAMCL_COM,
GPDAM_SM_PART, GPDSM_PART, GPDISM_PART,
GPD_OSPS,      GPDRISITE,  GPDMDR,  GPDATH,  GPD_OPRT,
GPDACCT,       GPDRTTAB    GPDTOD,  GPDEDS,  GPDMDS,
GPDCONFIG,     GPDISDN,    GPDEDSL, GPDICM1,
GPDACVT,        /* Attendant Control of Voice Terminals */
PDPFOWN,
GPDICR,         /* intercom call restriction */
GPDTRKG,        /* EPSCS 100 Secon Scan (HSS) feature */
GPDAM_SA_RED,   /* AM - Stand Alone SM Redundant */
GPDSA_PART,     /* Stand Alone SM Partitioned */
GPDISA_PART,    /* Stand Alone Partitioned - Loaded SMs */
GPD_DA,         /* Digit Analysis */
GPDACSR,        /* Automatic Customer Station Rearrangement */
GPDASI,         /* Advanced Service Interface */
GPDBFG,         /* BRCS Feature Group */
                /* see DB_GPDUS poprules for all
                   information on other types of GPD which
                   interact with BFG */
GPD_SPACB,      /* Special Access Customer Billing */
                /* AM/SM partitioned data */
GPD_SPABS,      /* Special Access Band Screening */
                /* AM/SM partitioned data */
GPD_SPAENXX,    /* Special Access Exempt NXX */
                /* AM/SM partitioned data */
GPDATTMSK,      /* MLHG Attendant Control Mask */
GPDTGMSK,       /* ISDN Attendant (ISAT) Remote Busy Verify */
                /* Trunk (BVT) Group Control Mask */
GPDPM,          /* DSL Layer 1 Performance Monitoring groups */
GPDPMIFAC,      /* Facility Layer 1 PM groups */
GPDPMDF2,       /* DFI-2 Facility Layer 1 PM groups */
GPDPBX_ID,      /* PBX screening ranges */
RESTRICTION:    For grp_type GPDTOD, if a RLtd_sched and
                RLtd_code tuples exist on an sm, the
```

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```
                RLdb_ampgd.pcr_map must reflect that
                distribution for the particular td_id.
RESTRICTION:    This relation is not populated with a grp_type of GPDMLHG
_CF.
GPD_QLPS,       This is a group partioning for QLPS. All tuples
                should appear in the AM. For this partioning, the
                tuple in the SM is populated if the unit type in
                the RLmodatt tuple is SMSM2000 or SMSM2005 and one of the
                networks, ql_ntwk0 or ql_ntwk1, exists on the SM.
GPDGDSF,        /* Group partitioning for GDSF. */
GPDCPM,         /* Group partitioning for CPM. */
GPDASPN,        /* Network Element Services Signaling group */
GPDVCDX,        /* Group partitioning for VCDX SM's */
GPDTDR,         /* Group partitioning for Time Dependent Routing */
```

**Attribute: grp_id**

**Fullname:** Group identification.

**Attribute Description** Identification (ID) for identifying the specific group within each group type. Valid values 1 - 65535. In addition, for grp_type=GPDCL_COM, GPDAMCL_COM, GPDAM_SM_PART, GPDSM_PART, GPDSA_PART, GPDISA_PART, and GPD_DA, grp_id=0 is valid.

```
for grp_type=GPDTDR, the valid grp_id value is 0
For grp_type=GPD_OSPS the only valid values are 1 thru 4.
```

The value of 4 can only be populated in OSPS offices.

```
For grp_type=GPD_OPRT the only valid values are 1, 2 and 3.
For grp_type=GPDISDN, the valid grp_id values are 0, 1.
For grp_type=GPDAM_SA_RED, currently the only valid grp_id is 0.
For grp_type=GPDATTMSK, the valid grp_id values are the same as
the domain defined by the DMGRPNUM domain (uhdr/db/DMgrpnum.G).
For grp_type=GPDTGMSK, the valid grp_id values are 1 thru AVTRKGRPS().
The domain is defined by the DMGRPNUM domain (uhdr/db/DMgrpnum.G).
A RLDB_AMGPD tuple must always be populated such that all the bits on
 pcr_map1, pcr_map2,..., pcr_map7 are set to zero.
When the Gl_ph parameter is updated to > 0
on any loaded SM, the following must be done:
```

(1) The RLDB_AMGPD tuples for grp_type = GPDISDN and grp_id = (0-1) must be updated to set the bit associated with that module in pcr_map1,.., pcr_map7 to 1. For grp_id = 1, a 1 should be placed in the low order bit of pcr_map1 to represent the AM's (and/or CMP's) subscription.

(2) Two RLDB_IMGPD tuples must be inserted on that module such that

```
RLDB_IMGPD.grp_type = GPDISDN
RLDB_IMGPD.grp_id = 0
RLDB_IMGPD.localflag = DBNO
RLDB_IMGPD.grp_type = GPDISDN
RLDB_IMGPD.grp_id = 1
RLDB_IMGPD.localflag = DBNO
```

(3) Two RLDB_GPDUS tuples must be inserted on the AM such that

```
RLDB_GPDUS.grp_type = GPDISDN
RLDB_GDPUS.grp_id = 0
RLDB_GDPUS.module = number of that module.
```

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```
     RLDB_GPDUS.grp_type = GPDISDN
     RLDB_GDPUS.grp_id = 1
     RLDB_GDPUS.module = number of that module.

For grp_type = GPDEDSL, valid values are 0-AVTRKGRPS().
For grp_type = GPDICR, valid values are 1-AVSFGRPS().
```

For grp_type = GPDTRKG, valid values are 1 - AVTRKGRPS() (a valid trunk group number). A tuple must be placed in this relation for every trunk group assigned the EPSCS 100 Second Scan (HSS) feature. Or, in other words, a tuple for EVERY trunk group found in RLmsaphss.

The bit maps pcr_map1 - pcr_map7 must be populated to reflect which processors contain members of the trunk group. The bit in pcr_map1 corresponding to the AM must always be set to 0 (DBNO).

For grp_type of GPD_DA, valid values are 0-999, 65000. These correspond to the valid values for the attribute 'ldit' in the relation RC_LDIT. A tuple is placed in this relation for every tuple in the relation RC_LDIT. The processor bit maps are set to reflect which processors contain the primary digit translator associated with the indicated LDIT.

For grp_type = GPDACSR, valid values are 1-1023.

For grp_type = GPDSA_PART, valid values are 0-192. Or, in other words, any valid processor number including the AM or CMP. Therefore, a tuple exists in this relation for each SM number and for the AM, CMP or both. The group ID is equal to the routing SM number. Each processor subscribes to its own group, except for the AM or CMP which subscribes to no groups. RSMs subscribe to all groups including their own. In addition, all non-RSMs with the stand alone call processing option subscribe to all groups including their own.

For grp_type = GPDISA_PART, valid values are 0-192. Or, in other words, any valid SM processor number plus 0. Therefore, a tuple exists in this relation for each Loaded SM number and a tuple always exists for 0. The group ID is equal to the packet routing SM number. Each valid processor number subscribes to its own group. Loaded RSMs subscribe to all groups including group 0. In addition, all Loaded non-RSMs with the stand alone call processing option subscribe to all groups including group 0.

For grp_type = GPDPM, GPDPMIFAC, or GPDPMDF2 valid values are limited to 0 to the value of Glpmmax. The following describes the tuple distribution for facility performance monitoring (PM) for the following relations: RLdb_amgpd, RLdb_imgpd, RLdb_gpdus, RLfacthrsh, RLpmfacgrp, and RLpmgrpfac.

For any facility PM group, there will be a single tuple in RLdb_amgpd (on the AM/CMP). Every PM group will also be represented by a tuple in RLfacthrsh on the AM/CMP, even if the PM group has no associated facilities. If the PM group has no associated facilities, all processor bits in RLdb_amgpd will be 0 except for the bit representing the AM/CMP. When a facility is added to a PM group, RLdb_amgpd must be checked for the appropriate processor bit being set. If the bit is not set, a

n RLdb_gpdus tuple must be created (on the AM/CMP) to represent this PM group and this SM (with use_count = 1), an RLdb_imgpd tuple must be created in this SM for this PM group, and the RLfacthrsh tuple for this PM group must be copied to the SM. Once these distribution tuples are created, tuples are created in RLpmgrpfac (on the AM/CMP) and RLpmfacgrp (on the SM) to associate the facility with a particular PM group.

If the bit corresponding to this SM is already set in RLdb_amgpd, the PM group is already

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referenced in the SM. In this case, the use_count in the RLdb_gpdus tuple is incremented, and the RLpmgrpfac and RLpmfacgrp tuples are created.

When a facility is removed from a PM group, the RLpmgrpfac and RLpmfacgrp tuples are deleted. The use_count in the RLdb_gpdus tuple is decremented, and if the use_count becomes 0, the RLdb_gpdus, and RLdb_imgpd tuples are deleted, and the appropriate processor bit in the RLdb_amgpd tuple for this PM group is cleared. The RLfacthrsh tuple on the SM is also deleted when the use_count becomes 0.

DSL performance monitoring works identically to facility performance monitoring, except that the relations RLpmthresh, RLpmgrpdsl, and RLpmdslgrp replace RLfacthrsh, RLpmgrpfac, and RLpmfacgrp, respectively.

The tuple distribution for DFI-2 PM facility PM is just like that of facility PM except that RLdf2thrsh is used rather than RLfacthrsh.
For grp_type = GPDPBX_ID, valid values are 1-4095. There must be at least one tuple in RLsc_range where RLdb_amgpd.grp_id = RLsc_range.pbx_id. RLsc_range is distributed to each SM that has a trunk group member where RLfc_trunk.pbx_id = RLsc_range.pbx_id and where screening is to be done on user-provided calling party numbers ( RLedsltrkg.grpnum = RLfc_trunk.tgroup and RLedsltrkg.cpn_scrn = DBYES.)

**Attribute: pcr_map1**

**Fullname:** First fullword bitmap field.

**Attribute Description** This field is a bit map which indicates if a group is present on each processor. Bit 0 is used for the AM or CMP or both, depending on the distribution of the GPD relation; bits 1 - 31 represent SMs 1 - 31, with 0 being the low-order bit. DBYES (1) indicates the group is present on the processor; DBNO (0) indicates the group is not present on the processor. Default value should be DBNO (0).

**Attribute: pcr_map2**

**Fullname:** Second fullword bitmap field

**Attribute Description** Bits 0 - 31 represent SMs 32 - 63.

**Attribute: pcr_map3**

**Fullname:** Third fullword bitmap field

**Attribute Description** Bits 0 - 31 represent SMs 64 - 95.

**Attribute: pcr_map4**

**Fullname:** Fourth fullword bitmap field

**Attribute Description** Bit 0 - 31 represent SMs 96 - 127.

**Attribute: pcr_map5**

**Fullname:** Fifth fullword bitmap field

**Attribute Description** Bit 0 - 31 represent SMs 128 - 159.

**Attribute: pcr_map6**

**Fullname:** Sixth fullword bitmap field

**Attribute Description** Bits 0 -31 represent SMs 160 - 191.

**Attribute: pcr_map7**

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**Fullname:** Seventh fullword bitmap field

**Attribute Description** Bit 0 represents SM 192.

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# DB_GPDUS

## 1. Description

DB Group Partitioned Data Use (DB_GPDUS) (on processors) The purpose of this relation is to store a count of the number of users a group has on a specific processor. Processor 0 represents the AM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10000 |
| expected number of tuples | 974 |
| density | 65 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
DB_GPDUS    relid = 498   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     grp_id      DMMCC_FID    (ushort)     <--- key
     use_count   DMSHORT      (short)
     module      DMMODULE     (ushort: 8)     <--- key
     grp_type    DMGPD_GPS    (enum: 7)     <--- key
         User, Compacted and Stored Tuple Layout   DB_GPDUS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              grp_id           |           use_count           |
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  4 |     module    |   grp_type    |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLdb_gpdus

**Relation Description** DB Group Partitioned Data Use (on processors).
The purpose of this relation is to store a count of the number of users a group has on a specific processor. Processor 0 represents AM, CMP or both.

**Attribute: grp_type**

**Fullname:** Type of GPD group.

**Attribute Description** This is an enumeration, valid values are defined in DMgpd_gps.G:

RESTRICTION: For grp_type interacting with BFG - These types of GPD are allowed to interact with BFG, when a BFG is constructed it may be associated with Group Name(s) for any of the grp_type as follows:

```
GPDDPLAN,    GPDAD1,    GPDAD2,    GPDTG,    GPDARS,    GPDASI,
GPDPFA,      GPDMDR,    GPDATH,    GPDACCT,  GPDRTTAB,  GPDEDS,
```

The following rules are appended and apply to the previous grp_type, to determine when and how they interact with BFG. This applies when BFG uses the previous grp_type and:

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(1) The BFG is not assigned on any SM, and resides on the AM

(2) The BFG is assigned on one or more SMs, and NOT on AM.

(1) In RLdb_gpdus, each previous grp_type may have one or more grp_id's associated with it. The following example is for grp_type GPDDPLAN, but applies to each previous grp_type: a. review RLbfgmatch until finding a tuple where RLbfgmatch.idp_gpid equals RLdb_gpdus.grp_id

(2) When idp_gpid is found in RLbfgmatch, check RLdb_amgpd, where RLdb_amgpd.grp_id equals RLbfgmatch.idp_gpid. Now if RLdb_amgpd.pcr_map1 is NOT equal to '1', then none of the GPD for idp_gpid should be populated in the AM.

If RLdb_amgpd.pcr_map1 is equal to '1', then all the GPD for that idp_gpid should be populated in the AM.

(3) When RLbfgmatch.idp_gpid equals RLdb_gpdus.grp_id, and where the corresponding RLdb_amgpd.pcr_map1 is equal to '1', this represents one usage of that idp_gpid in the AM, and RLdb_gpdus.use_count should be incremented in value by one.

Therefore, whenever one of these grp_type and grp_id is populated on one or more SMs, as indicated by RLdb_amgpd.pcr_mapx where x = 1 to 7, it must not be populated on the AM (bit 0 of RLdb_amgpd.pcr_map1 must equal 0). However, if the grp_type and grp_id is assigned to a BFG and BFG is unassigned, a RLdb_gpdus tuple must exist for module 0 and the use_count is incremented.

Exception: Unlike most GPD groups, terminal groups are not real 'groups'. We do not count their 'existence' on the CMP when they are not being used on an SM, like the other groups do.

**Attribute: grp_id**

**Fullname:** Group Identification to identify the specific group within each group type.

**Attribute Description** ID to identify the specific group within each group type. Valid values 1 - 65535. In addition, for grp_type=GPDCL_COM, GPDAMCL_COM, GPDAM_SM_PART, GPDSM_PART, and GPD_DA, grp_id=0 is valid.

For grp_type=GPDISDN, the valid grp_id values are 0, 1.

For grp_type=GPD_SPACB, all tuples should appear in the AM, CMP or both. A tuple should appear in the SM when the specified conditions in the RLspabilldn poprules are met. The valid values for grp_id are the same as the domain defined by the DMGRPNUM domain (uhdr/db/DMgrpnum.G).

For grp_type=GPD_SPABS, all tuples should appear in the AM, CMP or both. A tuple should appear in the SM when the specified conditions in the RLspabndscrn poprules are met. The valid values for grp_id include all valid NPA values for RLspabndscrn.npa1.

For grp_type=GPD_SPAENXX, all tuples should appear in the AM, CMP or both. A tuple should appear in the SM when the specified conditions in the RLspaenxx poprules are met. The only valid grp_id is 1.

```
For grp_type = GPDISDN, valid values are 0, 1.
For grp_type = GPDEDSL, valid values are 0-AVTRKGRPS().
For grp_type = GPDICR, valid values are 1-1023.
```

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```
For grp_type = GPD_DA, valid values are 0-999,
    and 65000 for RDIT.
For grp_type = GPDACSR, valid values are 1-1023.
For grp_type = GPDPM or GPDPMIFAC, the valid
    values are 0 to Glpmmax.
For grp_type = GPD_QLPS, the valid value is 0.
```

The following describes the tuple distribution for facility performance monitoring (PM) for the following relations: RLdb_amgpd, RLdb_imgpd, RLdb_gpdus, RLfacthrsh, RLpmfacgrp, and RLpmgrpfac.

For any facility PM group, there will be a single tuple in RLdb_amgpd (on the AM/CMP). Every PM group will also be represented by a tuple in RLfacthrsh on the AM/CMP, even if the PM group has no associated facilities. If the PM group has no associated facilities, all processor bits in RLdb_amgpd will be 0 except for the bit representing the AM/CMP. When a facility is added to a PM group, RLdb_amgpd must be checked for the appropriate processor bit being set. If the bit is not set, an RLdb_gpdus tuple must be created (on the AM/CMP) to represent this PM group and this SM (with use_count = 1), an RLdb_imgpd tuple must be created in this SM for this PM group, and the RLfacthrsh tuple for this PM group must be copied to the SM. Once these distribution tuples are created, tuples are created in RLpmgrpfac (on the AM/CMP) and RLpmfacgrp (on the SM) to associate the facility with a particular PM group.

If the bit corresponding to this SM is already set in RLdb_amgpd, the PM group is already refere

nced in the SM. In this case, the use_count in the RLdb_gpdus tuple is incremented, and the RLpmgrpfac and RLpmfacgrp tuples are created.

When a facility is removed from a PM group, the RLpmgrpfac and RLpmfacgrp tuples are deleted. The use_count in the RLdb_gpdus tuple is decremented, and if the use_count becomes 0, the RLdb_gpdus and RLdb_imgpd tuples are deleted, and the appropriate processor bit in the RLdb_amgpd tuple for this PM group is cleared. The RLfacthrsh tuple on the SM is also deleted when the use_count becomes 0.

DSL performance monitoring works identically to facility performance monitoring, except that the relations RLpmthresh, RLpmgrpdsl, and RLpmdslgrp replace RLfacthrsh, RLpmgrpfac, and RLpmfacgrp, respectively.

```
For grp_type = GPDPMDF2 the valid values
are 0 to Glpmmax.
DFI-2 performance monitoring works identically to facility
performance monitoring, except that RLdf2thrsh replaces RLfacthrsh.
For grp_type = GPDPBX_ID, valid values are 1-4095.
For grp_type = GPDBFG, valid values are 1-4095.
******************************************************
Begin             K18.0 - 5E6(2)
******************************************************
In 5E6(2), to avoid SM redundant relations needed by
OPSMOT, a new group id is being created for GPD_OSPS. These
relations can be partitioned instead of SM redundant. This
will save memory on BASIC SMs. In addition, the new GPD
relations previously added in 5E6 were not added to the
poprules for this relation.
******************************************************
End               K18.0 - 5E6(2)
******************************************************
```

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**Attribute: module**

**Fullname:** Processor number (AM, CMP or SM).

**Attribute Description** Processor 0 is for the AM, CMP or both. The bit corresponding to the processor number should be set in pcr_map of relation RLdb_amgpd.

RULE CLARIFICATION: when GPD tuples should/shouldn't be populated in the AM.

In reviewing tuples of RLdb_gpdus for a given grp_type and a given grp_id:

(1) If more than one tuple exists, this means GPD usage is on more than one processor. In this case, never populate any of it's GPD data in the AM.

(2) If only one tuple exists: if in that tuple RLdb_gpdus.module is NOT equal to zero, DON'T populate the GPD data in the AM. if in that tuple RLdb_gpdus.module is equal to zero, populate the GPD data in the AM.

Therefore when a given grp_type and grp_id are assigned to a BFG but the BFG is currently unassigned and the grp_type and grp_id is assigned on an SM, a tuple must exist in RLdb_gpdus with module = 0 and the RLdb_amgpd.pcr_map1, bit 0 must equal 0.

For grp_type = GPDISDN and grp_id = 0, no tuple should be populated on the AM, CMP or both.

**Attribute: use_count**

**Fullname:** The number of group lines (id, users) on this processor.

**Attribute Description** Valid values 0 - 65535. If use_count in all of the SMs is 0 and 1 in the AM, then GPD group is unassigned and exists in AM only. If use_count is greater than 0 in any SM, then GPD group is assigned to lines and does not exist in the AM (use_count in AM could be any value); if it is greater than 0 in AM, this GPD group is assigned to BFG which has not yet been assigned to a line. Therefore, this BFG resides in the AM. If use_count is zero in all of the SMs and is greater than 1 in AM, then GDP group is used by BFG and exists in the AM only.

The following layout shows how the IDP use count is impacted when the IDP is assigned to a BFG and the BFG assigned to lines. This same logic applies to other GPD group types if they are used in BFG.

| IDP action counts | BFG#1 counts | usage | | | | usage | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | AM | SM1 | SM2 | SM3 | AM | SM1 | SM2 | SM3 |
| 1. create IDP group | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2. create BFG#1 which uses IDP group | | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 3. assign on SM1, line with IDP | | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| 4. assign on SM1, line with BFG#1 | | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 |
| 5. assign on SM2, line with IDP | | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 0 |
| 6. assign on SM3, line with BFG#1 | | 0 | 2 | 1 | 1 | 0 | 1 | 0 | 1 |
| 7. assign on SM3, line with BFG#1 | | 0 | 2 | 1 | 1 | 0 | 1 | 0 | 2 |
| 8. delete from SM1, line with IDP | | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 2 |
| 9. delete from SM1, line with BFG#1 | | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| 10. delete from SM3, line with BFG#1 | | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 11. delete from SM3, line with BFG#1 | | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| 12. delete from SM2, line with IDP | | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |

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```
13. delete BFG#1                          1   0   0   0    0   0   0   0
14. create BFG#1 which uses IDP group     2   0   0   0    1   0   0   0
15. assign on SM1, line with BFG#1        0   1   0   0    0   1   0   0
    (IDP parameter inside BFG)
15a. assign on SM1, line with BFG#1       0   2   0   0    0   1   0   0
    (IDP parameter outside BFG)
```

These usage counts reflect the number of tuples in the DB relations.
For the case of BFG on the shared DNs and IDP, ARS, ACCT, ATH, etc is defined in the BFG. The following is only an example, this will apply to all of the GPD type defined in the BFG:

If a line is assigned with a BFG and is shared to another line on the same SM, then DB_GPDUS(sm,GPDB

FG,bfgid).use_count and DB_GPDUS(sm, GPDDPLAN,idpid).use_count would not change. Because the use_count in DB_GPDUS is kept on a per SM basis regardless of the number of shared instances a line might have on that SM.

If the a line is shared to another line on another SM, then DB_GPDUS(shared-to-sm,GPDBFG,bfgid).use_count and DB_GPDUS(shared-to-sm,GPDDPLAN,idpid).use_count will only be bumped up by one for the first instance of sharing and left along with each additional sharing case on the same SM with the same lead-line. When the last instance of the sharing is removed from this shared-to-sm, the use_count for DB_GPDUS(shared-to-sm,GPDBFG,bfgid) and DB_GPDUS(shared-to-sm,GPDDPLAN, idpid) will be decremented by one. Because the BGF is not longer using the IDP GPD data on the shared-to SM.

For the group type of GPDPM, GPDPMIFAC, or GPDPMDF2 the tuples with a 'module' of zero (that is, on the AM/CMP), the 'use_count' will be zero (0). For the tuples with a 'module' of 1 to 192 (really on an SM), the 'use_count' will be the number of circuits or DSLs assigned to that group in that particular SM. Exception to the previous rules: Unlike most GPD groups, terminal groups (GPDTG) are not real 'groups'. We do not count their 'existence' on the CMP when they are not being used on an SM, like the other groups do. SPECIFIC POPULATION RULES BY GROUP TYPE:

GPDTDR - The following relations have grp_type of GPDTDR: RLtdr, RLtdr_rti
This group partition type allows relations to be distributed to all SMs equipped in the office as well as the CMP. There will always be a tuple with the module equal to 0. There will also, always be a tuple for each SM equipped in RLmodatt. The grp_id is always 0 and the use_count is always 1.

GPDISDN - The following relations have grp_type of GPDISDN:
`RLpsdnicri, RLpsri_psn, RLpsmhgdnr, RLrateperd, RLacddisp, RLagentid, RLstparm, RLsrvcdesc.`
In ISDN group partioned data, there are only 2 valid group ids. Every ISDN SM should subscribe to groups 0 and 1.

grp_id = 0 for RLpsdnicri, RLpsri_psn, RLpsmhgdnr, RLrateperd, RLacddisp.
All the tuples of these relations must reside in all the ISDN modules.
grp_id = 1 for RLagentid, RLstparm, RLsrvcdesc,
All the tuples of these relations must reside in all the ISDN SMs and in the AM and/or CMP.
The AM, CMP or both should subscribe to group 1, but not group 0. The bit map, pcr_map1-7 should be marked in RLdb_amgpd with a 1 for each ISDN SM for both groups. For group 1, a 1 should be placed in the low order bit of pcr_map1 to represent the AM's (and/or CMP's) subscription.

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When the GI_ph parameter is updated to > 0 on any ISDN SM (either an SM or an SM-2000), the following must be done:

(1) The RLDB_AMGPD tuples for grp_type = GPDISDN and grp_id = (0-1) must be updated to set the bit associated with that module in pcr_map1,.., pcr_map7 to 1. For grp_id = 1, a 1 should be placed in the low order bit of pcr_map1 to represent the AM's (and/or CMP's) subscription.

(2) Two RLDB_IMGPD tuples must be inserted on that module such that
```
RLDB_IMGPD.grp_type = GPDISDN
RLDB_IMGPD.grp_id = 0
RLDB_IMGPD.localflag = DBNO
RLDB_IMGPD.grp_type = GPDISDN
RLDB_IMGPD.grp_id = 1
RLDB_IMGPD.localflag = DBNO
```

(3) Two RLDB_GPDUS tuples must be inserted on the AM such that
```
RLDB_GPDUS.grp_type = GPDISDN
RLDB_GDPUS.grp_id = 0
RLDB_GDPUS.module = number of that module.
RLDB_GPDUS.grp_type = GPDISDN
RLDB_GDPUS.grp_id = 1
RLDB_GDPUS.module = number of that module.
```

GPDAM_SA_RED In AM - Stand Alone SM redundant data, the only valid group ID is 0. A redundant copy of each relation associated with this group partitioned data type resides in the AM and in each switching module that has the stand alone call processing option installed (that is, office parameter Glsacp = DBYES in that modules ODD). In addition, each RSM should automatically subscribe to this group type.

Therefore, the bit map, pcr_map1-7 should be marked in RLdb_amgpd with a 1 for the AM, for each RSM, and for each non-RSM with the stand alone call processing option installed (Glsacp = DBYES).

This group type does not require any tuples in the relations RLdb_imgpd & RLdb_gpdus.

GPDSA_PART In stand alone group partitioned data, the valid group IDs are the values of the SM processor IDs plus 0. Therefore, one group should exist for each SM and for group 0. The group ID range is 0-192.

Each processor should subscribe to its own group in the processor bit map, pcr_map1-7, with the exception of the AM which does not subscribe to any group (that is, the processor map for each SM should have the bit corresponding to that SMs processor number set to a 1).

RSMs should subscribe to all groups including group ID 0.

In addition, each non-RSM with the stand alone call processing option (Glsacp = DBYES) should subscribe to all groups including group 0. Therefore, group 0 should be a group of the RSMs and non-RSMs with the stand alone call processing option.

This group partition type is used to distribute DN translation data associated with

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ports that have no physical termination. The group ID is the value of the routing SM processor number associated with the DN being distributed.

This group type does not require any tuples in the relations RLdb_imgpd & RLdb_gpdus.

GPDISA_PART In ISDN stand alone group partitioned data, the valid group IDs are the values of the ISDN SM processor IDs plus 0. Therefore, one group should exist for each ISDN SM and for group 0. The group ID range is 0-192.

Each SM processor should subscribe to its own group in the processor bit map, pcr_map1-7 (that is, the processor map for each ISDN SM should have the bit corresponding to that SMs processor number set to a 1).

ISDN RSMs should subscribe to all groups including group ID 0. In addition, each ISDN non-RSM with the stand alone call processing option (Glsacp = DBYES) should subscribe to all groups including group 0. Therefore, group 0 should be a group of (1) all the ISDN RSMs, plus (2) all the ISDN non-RSMs with the stand alone call processing option.

This group partition type is used to distribute ISDN packet DN translation data associated with ports that have no physical termination. The group ID is the value of the packet routing SM processor number associated with the packet DN being distributed.

This group type does not require any tuples in the relations RLdb_imgpd & RLdb_gpdus.

GPDLAST Usage Rule: This enumeration is only used as a check to determine if the group type sent to a DB function is within a valid range. The enumeration is never used to populate any relation.

GPDMDR Message Detail Recording groups may be assigned to both circuit and packet switched ISDN users. The group may have both circuit and packet types active or only one of the types active. If the group is defined in RLmdr_gp with the attribute pkt_mdr set to DBYES and all of the circuit MDR attributes (orig_priv, in_priv and public) are DBNO then this is a Packet only MDR group. When Packet only groups are assigned to packet services there will not be a tuple in RLmdr_port or in RLrt_sfg. There will be at least one RLpsx25ln tuple populated with the attribute pmdr_grp equal to this group. When MDR groups with both circuit and packet options active are assigned to circuit users and packet services the group will be populated in RLmdr_port and/or RLrt_sfg, and the RLpsx25ln.pmdr_grp attribute. The use counts for GPDMDR will reflect the sum of the tuples in RLmdr_port, RLrt_sfg and the tuples in RLpsx25ln where pmdr_grp is populated. RLmdr_port, or RLrt_sfg are only populated for circuit MDR ports.

Packet MDR groups assigned to different DSL packet services may be the same group or different for each packet service. The MDR activation status of each packet service may be either on or off independent of the other DSL packet services MDR activation.

GPDVCDX This group partition type allows relations to be distributed to VCDX SM's. There will always be a tuple with the module equal to 0. In VCDX offices, there will also be a tuple with the module equal to the VCDX SM. The grp_id is always 0 and the use_count is always 1.

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GPD_QLPS For this group partition type, the use count value must equal the number of MH pipes assigned to this SM-2000. Whenever an MH pipe is added to this SM-2000, the value of use count must be incremented. Similarly, whenever an MH pipe is deleted from this SM-2000, the value of use count must be decremented.

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# DB_IMGPD

## 1. Description

DB IM group partitioned data (DB_IMGPD). The purpose of this relation is to indicate if a particular group's data is local or global.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1500 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 0 |
| foldtype | DBGC31 |

## 3. Field Layout

```
DB_IMGPD    relid = 497   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     grp_id      DMMCC_FID    (ushort)  <--- key
     grp_type    DMGPD_GPS    (enum: 6) <--- key
 (a) localflag   DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout   DB_IMGPD
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |           | |                 |
  0 |             grp_id             |  grp_type |a|*****************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLdb_imgpd

**Relation Description** IM Group Partitioned Data.
The purpose of this relation is to indicate if a particular group's data is local or global.

**Attribute: grp_type**

**Fullname:** group type.

**Attribute Description** Type of group partitioned data (GPD) group, valid values are defined in Mgpd_gps.

**Attribute: grp_id**

**Fullname:** group id.

**Attribute Description** Id used to identify the specific group within each group type. Valid values 1 - 65535. In addition, for grp_type=GPDCL_COM, GPDAMCL_COM, GPDAM_SM_PART, GPDSM_PART, and GPD_DA, grp_id=0 is valid. For grp_type=GPD_OSPS, the only valid values are 1, 2 and 3. For grp_type=GPD_OPRT, the only valid values are 1, 2 and 3.

For grp_type=GPDISDN, the valid values for grp_id are 0, 1.

For grp_type=GPD_SPACB, the valid values for grp_id is the same as the domain defined by the DMGRPNUM domain (uhdr/db/DMgrpnum.G).

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For grp_type=GPD_SPABS, the valid values for grp_id include all valid NPA values.

For grp_type=GPD_SPAENXX, the only valid grp_id is 1.

For grp_type=GPDATTMSK, the valid values for grp_id is the same as the domain defined by the DMGRPNUM domain (uhdr/db/DMgrpnum.G).

For grp_type=GPDTGMSK, the valid values for grp_id are 1 thru AVTRKGRPS(). The domain is defined by the DMGRPNUM domain (uhdr/db/DMgrpnum.G).

A RLDB_AMGPD tuple must always be populated such that all the bits on pcr_map1, pcr_map2,..., pcr_map7 are set to zero.

When the Gl_ph parameter is updated to > 0 on any loaded SM, the following must be done:

(1) The RLDB_AMGPD tuples for grp_type = GPDISDN and grp_id = (0-1) must be updated to set the bit associated with that module in pcr_map1,.., pcr_map7 to 1. For grp_id = 1, a 1 should be placed in the low order bit of pcr_map1 to represent the AM's (and/or CMP's) subscription.

(2) Two RLDB_IMGPD tuples must be inserted on that module such that

```
RLDB_IMGPD.grp_type = GPDISDN
RLDB_IMGPD.grp_id = 0
RLDB_IMGPD.localflag = DBNO
RLDB_IMGPD.grp_type = GPDISDN
RLDB_IMGPD.grp_id = 1
RLDB_IMGPD.localflag = DBNO
```

(3) Two RLDB_GPDUS tuples must be inserted on the AM such that

```
RLDB_GPDUS.grp_type = GPDISDN
RLDB_GDPUS.grp_id = 0
RLDB_GDPUS.module = number of that module.
RLDB_GPDUS.grp_type = GPDISDN
RLDB_GDPUS.grp_id = 1
RLDB_GDPUS.module = number of that module.
```

```
For grp_type = GPDEDSL, valid values are 0-AVTRKGRPS().
For grp_type = GPDICR, valid values are 1-AVSFGRPS().
For grp_type = GPD_DA, valid values are 0-999,65000.
For grp_type = GPD_ACSR, valid values are 1-1023.
```

For grp_type = GPDPM, GPDPMIFAC, or GPDPMDF2 valid values are from 0 to Glpmmax.

The following describes the tuple distribution for facility performance monitoring (PM) for the following relations: RLdb_amgpd, RLdb_imgpd, RLdb_gpdus, RLfacthrsh, RLpmfacgrp, and RLpmgrpfac.

For any facility PM group, there will be a single tuple in RLdb_amgpd (on the AM/CMP). Every PM group will also be represented by a tuple in RLfacthrsh on the AM/CMP, even if the PM group has no associated facilities. If the PM group has no associated facilities, all processor bits in RLdb_amgpd will be 0 except for the bit representing the AM/CMP. When a facility is added to a PM group, RLdb_amgpd must be checked for the appropriate processor bit being set. If the bit is not set, an RLdb_gpdus tuple must be created (on the AM/CMP) to represent this PM group and this SM (with use_count = 1), an RLdb_imgpd tuple must be created in this SM for this PM group, and the RLfacthrsh tuple for this PM group must be copied to the SM. Once these distribution

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tuples are created, tuples are created in RLpmgrpfac (on the AM/CMP) and RLpmfacgrp (on the SM) to associate the facility with a particular PM group.

If the bit corresponding to this SM is already set in RLdb_amgpd, the PM group is already referenced in the SM. In this case, the use_count in the RLdb_gpdus tuple is incremented, and the RLpmgrpfac and RLpmfacgrp tuples are created.

When a facility is removed from a PM group, the RLpmgrpfac and RLpmfacgrp tuples are deleted. The use_count in the RLdb_gpdus tuple is decremented, and if the use_count becomes 0, the RLdb_gpdus and RLdb_imgpd tuples are deleted, and the appropriate processor bit in the RLdb_amgpd tuple for this PM group is cleared. The RLfacthrsh tuple on the SM is also deleted when the use_count becomes 0.

DSL performance monitoring works identically to facility performance monitoring, except that the relations RLpmthresh, RLpmgrpdsl, and RLpmdslgrp replace RLfacthrsh, RLpmgrpfac, and RLpmfacgrp, respectively.

DFI-2 performance monitoring works identically to facilty performance monitoring, except that the RLdf2thrsh relation replaces RLfacthrsh.

For grp_type = GPDPBX_ID, valid values are 1 - 4095.

**Attribute: localflag Fullname:** local flag.

**Attribute Description** Identifies if this group data is local to the processor. DBYES - local: DBNO - global.
If a tuple with the same key exists on another processor, then localflag should be DBNO (on all processors) for this tuple.
See bit map in RLdb_amgpd. If localflag = DBYES, then only 1 bit associated with that module should be set in pcr_map1-7.

```
For grp_type = GPDISDN, localflag is always DBNO.
For grp_type = GPDMLHG_CF, local flag is always DBNO.
For grp_type = GPDPM, 'localflag' is always DBNO.
For grp_type = GPDPMIFAC, 'localflag' is always DBNO.
For grp_type = GPDPMDF2, 'localflag' is always DBNO.
FOR grp_type = GPD_QLPS, 'localflag' is always DBNO.
```

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# DB_KYMSK

## 1. Description

The Keymask Dictionary relation contains masks for all Redundant ODD (RODD), Non-Redundant ODD (NRODD) and Unprotected Memory (UODD) relation keys.

## 2. Data Dictionary Values

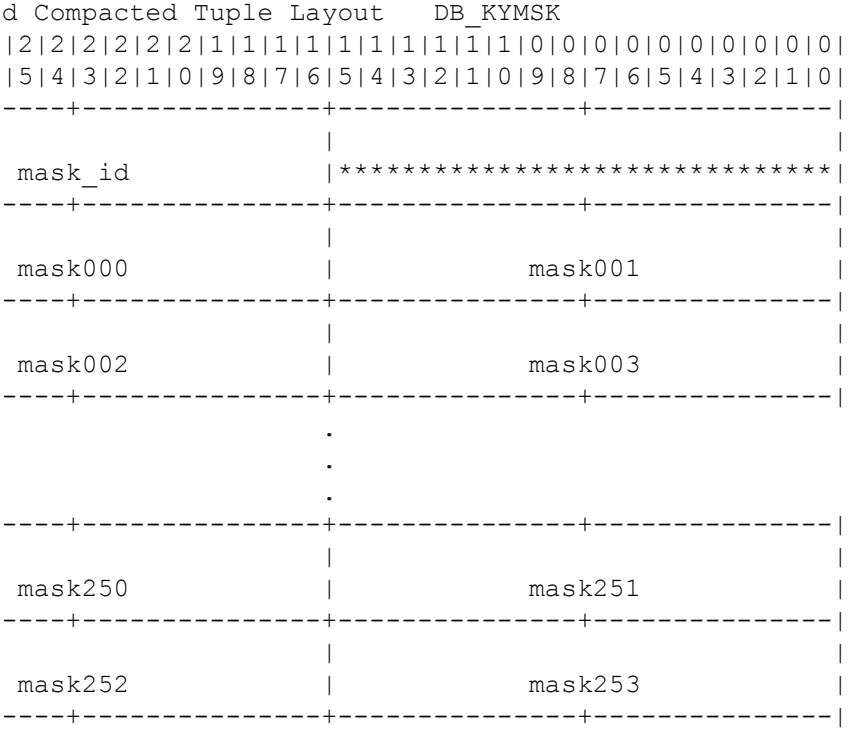
| | |
|---|---|
| maximum tuples in relation | 20 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | COLPFR |
| application | ALL |
| relation type | DBSTATIC |
| permutation type | un_perm |
| ks key store | DBNO |
| expected tuples | 7 |

## 3. Field Layout

```
DB_KYMSK    relid = 2912  DBSTATIC   DBACC_CIND  DBPRAM    COLPFR  ALL

     mask_id     DMSHORT      (short) <--- key, not stored
     mask000     DMHEX16      (ushort)
     mask001     DMHEX16      (ushort)
     mask002     DMHEX16      (ushort)
                    .
                    .
                    .
     mask253     DMHEX16      (ushort)
     mask254     DMHEX16      (ushort)
     mask255     DMHEX16      (ushort)
```

User and Compacted Tuple Layout DB_KYMSK

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```
    |                               |                               |
512 |            mask254           |            mask255            |
    |---------------+---------------+---------------+---------------|
       ( 516 bytes )

     mask000     DMHEX16      (ushort)
     mask001     DMHEX16      (ushort)
     mask002     DMHEX16      (ushort)
                    .
                    .
                    .
     mask253     DMHEX16      (ushort)
     mask254     DMHEX16      (ushort)
     mask255     DMHEX16      (ushort)

           Stored Tuple Layout     DB_KYMSK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            mask000           |            mask001            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            mask002           |            mask003            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            mask004           |            mask005            |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                               |                               |
500 |            mask250           |            mask251            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
504 |            mask252           |            mask253            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
508 |            mask254           |            mask255            |
    |---------------+---------------+---------------+---------------|
       ( 512 bytes )

domain alDB_KYMSK struct  (2 sub-attributes)
         mask_id     short        (short)
         mask        .0.fake      (array [ 256 ] of unsigned short )
                     Structure Layout    alDB_KYMSK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            mask_id           |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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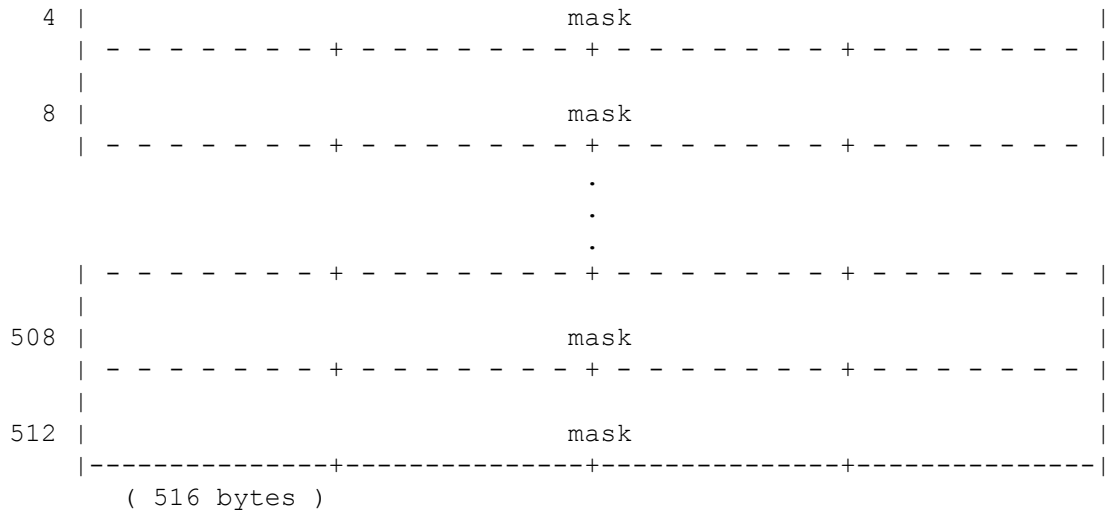


## 4. Population rules for RLdb_kymsk

There are no population rules for this relation.

# DB_REORG

## 1. Description

This dummy relation will provide temporary work space for relation reorganization. The dictionary entries for this relation will be mimiced by the reorganization process to be identical to those of relation being reorganized.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
DB_REORG    relid = 276   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     key1         DMSHORT      (short)   <--- key
     att1         DMSHORT      (short)
     att2         DMSHORT      (short)
         User, Compacted and Stored Tuple Layout   DB_REORG
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |               key1            |               att1            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |               att2            |*******************************|
    |---------------+---------------+---------------+---------------|
                                ( 8 bytes )
```

## 4. Population Rules for RLdb_reorg

There are no population rules for this relation.

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# DBACCDHSH

## 1. Description

This relation contains the Dynamic Hash Access Type Specific Dictionary for Non-Redundant ODD (NRODD) and Unprotected Memory (UODD) relations .

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 400 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | COLPFP |
| application | ALL |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
DBACCDHSH   relid = 2801  DBSTATIC   DBACC_HASH  DBPRAM    COLPFP  ALL

    acc_rid     DMRELID      (short) <--- key
 (a) acc_foldtyp  DMFOLDTYP    (enum: 3)
 (b) acc_lprobe  DMBOOL       (enum: 1)
 (c) acc_tsbal   DMTSBAL      (enum: 2)
 (d) acc_fkey    DMBOOL       (enum: 1)
    acc_pval    DMITEMCNT    (ushort: 8)
    acc_bval    DMCOUNT      (ushort)
    acc_tval    DMCOUNT      (ushort)
    acc_topag   DMCOUNT      (ushort)
    acc_tpag    DMCOUNT      (ushort)
    acc_npag    DMCOUNT      (ushort)
    rel_dsze    DMCOUNT      (ushort)
    rel_isze    DMCOUNT      (ushort)
    rel_tmax    DMLONG       (long)
        User, Compacted and Stored Tuple Layout  DBACCDHSH
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |     | |   | |               | |
 0 |            acc_rid            |  a  |b| c |d|    acc_pval   |*|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |            acc_bval           |            acc_tval           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |           acc_topag           |            acc_tpag           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |            acc_npag           |            rel_dsze           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |            rel_isze           |*******************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |                           rel_tmax                            |
```

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```
|---------------+---------------+---------------+---------------|
   ( 24 bytes )
```

## 4. Population rules for RLdbaccdhs

There are no population rules for this relation.

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# DBCPRERG

## 1. Description

This dummy relation will provide temporary work space for relation reorganization. The dictionary entries for this relation will be mimiced by the reorganization process to be identical to those of relation being reorganized.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
DBCPRERG    relid = 247   DBSTATIC   DBACC_HASH  DBPRAM    LR      NULL
     key1         DMSHORT      (short)   <--- key
     att1         DMSHORT      (short)
     att2         DMSHORT      (short)
         User, Compacted and Stored Tuple Layout   DBCPRERG
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |               key1            |               att1            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |               att2            |*******************************|
    |---------------+---------------+---------------+---------------|
                                ( 8 bytes )
```

## 4. Population Rules for RLdbcprerg

There are no population rules for this relation.

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# DBGKRP

## 1. Description

This skeleton GK relation will provide temporary work space for relation reorganization. The dictionary entries for this relation will be overlaid by the reorganization process to be identical to those of GK relation being reorganized.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples in relation | 100 |
| expected number of tuples in relation | 50 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LRFP |
| relation type | DBSTORAGE |
| head table size | 1024 |
| data page size | 256 |
| page level | 2 |
| index length | 9 |
| permutation type | perm |
| ks key store | DBNO |
| foldtype | DBGC31 |
| gkidxrel GK-index relation | rlDBRIRP |

## 3. Field Layout

```
DBGKRP      relid = 1531  DBSTORAGE  DBACC_GK    DBPRAM    LRFP    NULL
     gkDBGKRP    DMGK14       (ulong: 14)   <--- key, not stored
     att1        DMSHORT      (short)
     att2        DMSHORT      (short)
         User and Compacted Tuple Layout     DBGKRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkDBGKRP             |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  4 |              att1               |              att2             |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     att1        DMSHORT      (short)
     att2        DMSHORT      (short)
           Stored Tuple Layout   DBGKRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                         GK LINK FIELD                         |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  4 |              att1               |              att2             |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLdbgkrp

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There are no population rules for this relation.

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# DBGKRR

## 1. Description

This skeleton GK relation will provide temporary work space for relation reorganization. The dictionary entries for this relation will be overlaid by the reorganization process to be identical to those of GK relation being reorganized.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples in relation | 100 |
| expected number of tuples in relation | 50 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTORAGE |
| head table size | 1024 |
| data page size | 256 |
| page level | 2 |
| index length | 9 |
| permutation type | perm |
| ks key store | DBNO |
| foldtype | DBGC31 |
| gkidxrel GK-index relation | rlDBRIRR |

## 3. Field Layout

```
DBGKRR      relid = 1532  DBSTORAGE  DBACC_GK    DBPRAM    FR      NULL
     gkDBGKRR    DMGK14       (ulong: 14)   <--- key, not stored
     att1        DMSHORT      (short)
     att2        DMSHORT      (short)
         User and Compacted Tuple Layout     DBGKRR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkDBGKRR             |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  4 |               att1              |               att2            |
    |---------------+---------------+---------------+---------------|
                                ( 8 bytes )

     att1        DMSHORT      (short)
     att2        DMSHORT      (short)
           Stored Tuple Layout   DBGKRR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                          GK LINK FIELD                        |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  4 |               att1              |               att2            |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLdbgkrr

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There are no population rules for this relation.

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# DBIMRERG

## 1. Description

This dummy relation will provide temporary work space for relation reorganization. The dictionary entries for this relation will be mimiced by the reorganization process to be identical to those of relation being reorganized.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
DBIMRERG    relid = 246   DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     key1         DMSHORT      (short)   <--- key
     att1         DMSHORT      (short)
     att2         DMSHORT      (short)
         User, Compacted and Stored Tuple Layout   DBIMRERG
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |               key1            |               att1            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |               att2            |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLdbimrerg

There are no population rules for this relation.

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# DBODDACC

## 1. Description

The Access Dictionary is used for Non-Redundant ODD (NRODD) and Unprotected Memory (UODD) relations .

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | COLPFP |
| application | ALL |
| relation type | DBSTATIC |
| permutation type | un_perm |
| identical to | rlDB_ACCDICT |
| expected tuples | 2000 |

## 3. Field Layout

```
DBODDACC    relid = 2913  DBSTATIC   DBACC_HASH  DBPRAM    COLPFP  ALL

     acc_rid     DMRELID      (short) <--- key
     acc_rcnt    DMITEMCNT    (ushort: 8)
 (a) acc_wflg    DMBOOL       (enum: 1)
 (b) acc_reorg   DMBOOL       (enum: 1)
 (c) acc_grbg    DMBOOL       (enum: 1)
 (d) acc_state   DMACCSTATE   (enum: 3)
     acc_head    DMBLOCKID    (ulong)
     acc_nidx    DMRELID      (short)
     acc_bidx    DMRELID      (short)
     rel_hsze    DMCOUNT      (ushort)
         User, Compacted and Stored Tuple Layout   DBODDACC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               | | | |     |   |
  0 |            acc_rid            |    acc_rcnt   |a|b|c|  d  |***|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           acc_head                            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            acc_nidx           |            acc_bidx           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |            rel_hsze           |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population rules for RLdboddacc

There are no population rules for this relation.

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# DBRACCCIND

## 1. Description

This is the Compacted Index Access Type Specific Dictionary for Redundant ODD (RODD) relations.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 900 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | COLPFR |
| application | ALL |
| relation type | DBSTATIC |
| permutation type | un_perm |
| identical to | rlDBACCCIND |
| expected tuples | 400 |

## 3. Field Layout

```
DBRACCCIND  relid = 2914  DBSTATIC   DBACC_HASH  DBPRAM    COLPFR  ALL

     acc_rid     DMRELID      (short) <--- key
     rel_dsze    DMCOUNT      (ushort)
     rel_tmax    DMLONG       (long)
     rel_isze    DMCOUNT      (ushort)
     inc_maxelt1  DMUSHORT     (ushort)
     inc_maxelt2  DMUSHORT     (ushort)
     inc_maxelt3  DMUSHORT     (ushort)
     inc_eltsize1  DMUSHORT     (ushort)
     inc_eltsize2  DMUSHORT     (ushort)
     inc_eltsize3  DMUSHORT     (ushort)
     sk_len1     DMUCHAR      (uchar)
     sk_len2     DMUCHAR      (uchar)
     sk_len3     DMUCHAR      (uchar)
     sk_len4     DMUCHAR      (uchar)
     sk_len5     DMUCHAR      (uchar)
     sk_len6     DMUCHAR      (uchar)
     inc_keylen  DMUCHAR      (uchar)
     inc_cksplit1  DMUCHAR      (uchar)
     inc_cksplit2  DMUCHAR      (uchar)
     inc_cksplit3  DMUCHAR      (uchar)
     sk_byteoff1  DMUCHAR      (uchar)
     sk_byteoff2  DMUCHAR      (uchar)
     sk_byteoff3  DMUCHAR      (uchar)
     sk_byteoff4  DMUCHAR      (uchar)
     sk_byteoff5  DMUCHAR      (uchar)
     sk_byteoff6  DMUCHAR      (uchar)
     sk_bitoff1  DMUCHAR      (uchar)
     sk_bitoff2  DMUCHAR      (uchar)
     sk_bitoff3  DMUCHAR      (uchar)
     sk_bitoff4  DMUCHAR      (uchar)
     sk_bitoff5  DMUCHAR      (uchar)
     sk_bitoff6  DMUCHAR      (uchar)
(a)  inc_kstore  DMBOOL       (enum: 1)
(b)  inc_itype   DMINDTYPE    (enum: 2)
     rel_kshft   DMSHORT      (short)
```

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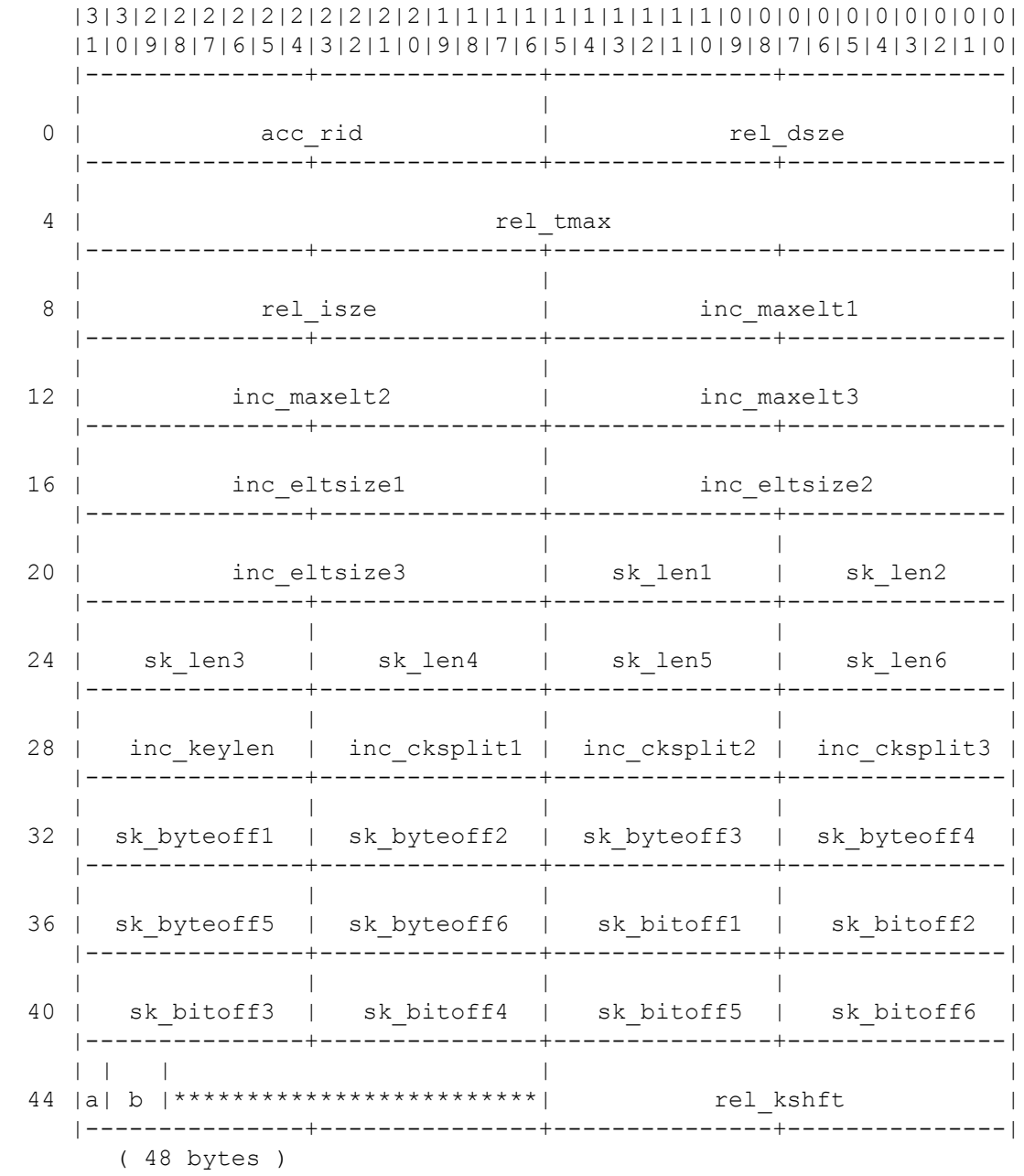
User, Compacted and Stored Tuple Layout DBRACCCIND




( 48 bytes )

## 4. Population rules for RLdbraccci

There are no population rules for this relation.

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# DBRACCDHSH

## 1. Description

This is the Dynamic Hash Access Type Specific Dictionary for Redundant ODD (RODD) relations.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | COLPFR |
| application | ALL |
| relation type | DBSTATIC |
| permutation type | un_perm |
| identical to | rlDBACCDHSH |

## 3. Field Layout

```
DBRACCDHSH  relid = 2915  DBSTATIC   DBACC_HASH  DBPRAM    COLPFR  ALL

    acc_rid     DMRELID      (short) <--- key
 (a) acc_foldtyp  DMFOLDTYP    (enum: 3)
 (b) acc_lprobe  DMBOOL       (enum: 1)
 (c) acc_tsbal   DMTSBAL      (enum: 2)
 (d) acc_fkey    DMBOOL       (enum: 1)
    acc_pval    DMITEMCNT    (ushort: 8)
    acc_bval    DMCOUNT      (ushort)
    acc_tval    DMCOUNT      (ushort)
    acc_topag   DMCOUNT      (ushort)
    acc_tpag    DMCOUNT      (ushort)
    acc_npag    DMCOUNT      (ushort)
    rel_dsze    DMCOUNT      (ushort)
    rel_isze    DMCOUNT      (ushort)
    rel_tmax    DMLONG       (long)
        User, Compacted and Stored Tuple Layout DBRACCDHSH
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |     | |   | |               | |
 0 |            acc_rid            |  a  |b| c |d|    acc_pval   |*|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |            acc_bval           |            acc_tval           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |           acc_topag           |            acc_tpag           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |            acc_npag           |            rel_dsze           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |            rel_isze           |*******************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |                           rel_tmax                            |
```

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```
|---------------+---------------+---------------+---------------|
   ( 24 bytes )
```

## 4. Population rules for RLdbraccdh

There are no population rules for this relation.

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# DBRACCGK

## 1. Description

This is the Generated Key Access Type Specific Dictionary for Redundant ODD (RODD) relations.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | COLPFR |
| application | ALL |
| relation type | DBSTATIC |
| permutation type | un_perm |
| identical to | rlDBACCGK |
| expected tuples | 161 |

## 3. Field Layout

```
DBRACCGK    relid = 2916  DBSTATIC   DBACC_HASH  DBPRAM    COLPFR  ALL

     acc_rid     DMRELID      (short) <--- key
     gk_stgsz1   DMUSHORT     (ushort)
     gk_stgsz2   DMUSHORT     (ushort)
     gk_stgsz3   DMUSHORT     (ushort)
     gk_stgsz4   DMUSHORT     (ushort)
     gk_stgsz5   DMUSHORT     (ushort)
     rel_dsze    DMCOUNT      (ushort)
     rel_isze    DMCOUNT      (ushort)
     rel_tmax    DMLONG       (long)
     gk_revid    DMRELID      (short)
     inc_maxelt1  DMUSHORT     (ushort)
     inc_maxelt2  DMUSHORT     (ushort)
     inc_maxelt3  DMUSHORT     (ushort)
     inc_eltsize1  DMUSHORT     (ushort)
     inc_eltsize2  DMUSHORT     (ushort)
     inc_eltsize3  DMUSHORT     (ushort)
     inc_cksplit1  DMUCHAR      (uchar)
     inc_cksplit2  DMUCHAR      (uchar)
     inc_cksplit3  DMUCHAR      (uchar)
     inc_keylen  DMUCHAR      (uchar)
     acc_parid   DMRELID      (short)
     acc_parcnt  DMUCHAR      (uchar)
     acc_probdepth  DMUCHAR      (uchar)
     acc_delcnt  DMCOUNT      (ushort)
     acc_lastagk  DMULONG      (ulong)
     acc_freegk  DMULONG      (ulong)
     acclastval  DMGKRANGE    (ulong: 24)
(a)  acc_foldtyp  DMFOLDTYP    (enum: 3)
(b)  inc_itype   DMINDTYPE    (enum: 2)
(c)  acc_oflg    DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   DBRACCGK
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
```

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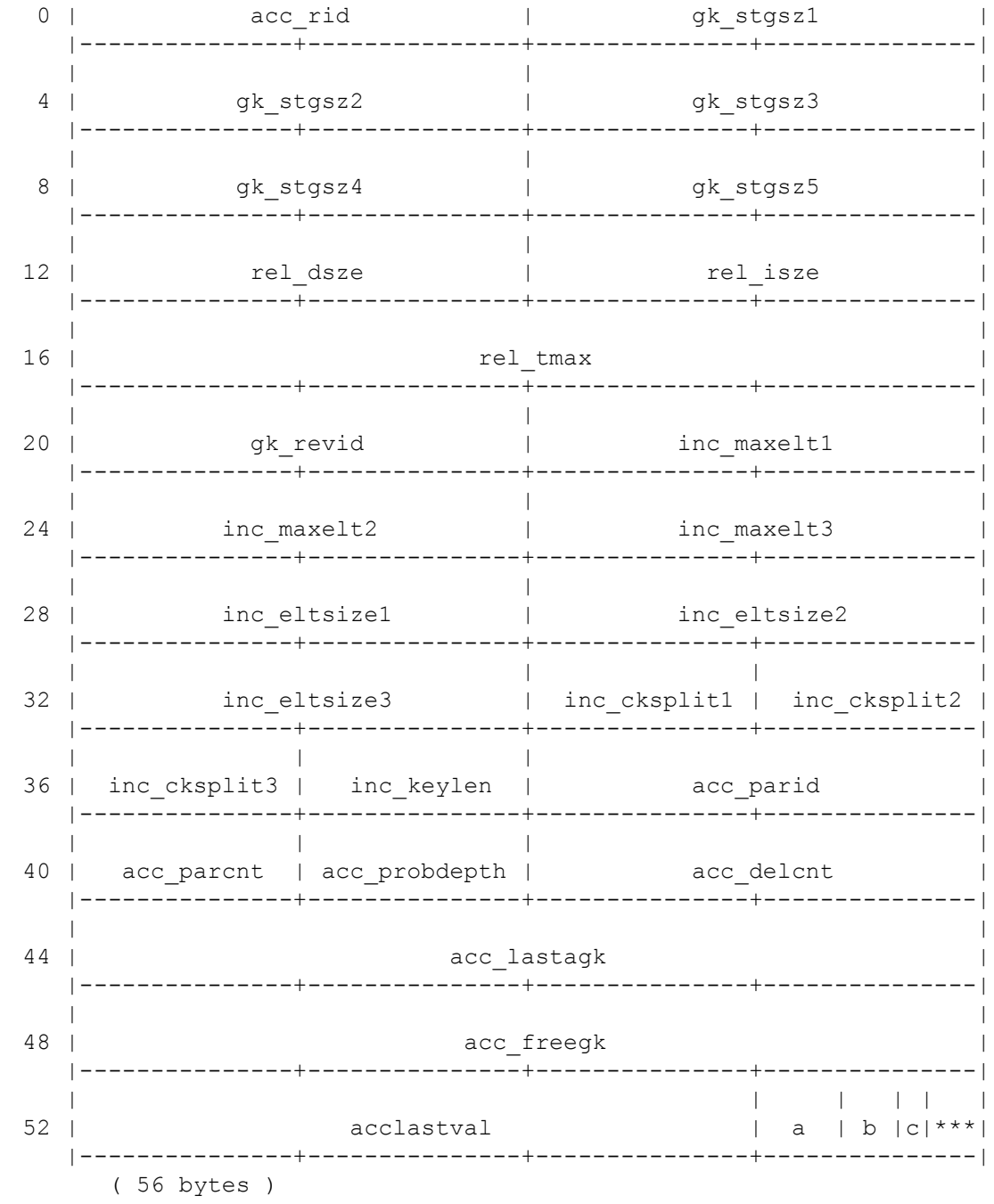


## 4. Population rules for RLdbraccgk

There are no population rules for this relation.

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# DBRACCHASH

## 1. Description

This is the Hash Access Type Specific Dictionary for Redundant ODD (RODD) relations.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 800 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | COLPFR |
| application | ALL |
| relation type | DBSTATIC |
| permutation type | un_perm |
| identical to | rlDBACCHASH |
| expected tuples | 713 |

## 3. Field Layout

```
DBRACCHASH  relid = 2917  DBSTATIC   DBACC_HASH  DBPRAM    COLPFR  ALL

    acc_rid     DMRELID      (short) <--- key
 (a) acc_oflg    DMBOOL       (enum: 1)
 (b) acc_foldtyp  DMFOLDTYP    (enum: 3)
    acc_probdepth  DMUCHAR      (uchar)
    acc_tpag    DMCOUNT      (ushort)
    rel_dsze    DMCOUNT      (ushort)
    acc_npag1   DMUSHORT     (ushort)
    acc_npag2   DMUSHORT     (ushort)
    acc_npag3   DMUSHORT     (ushort)
    acc_npag4   DMUSHORT     (ushort)
    acc_npag5   DMUSHORT     (ushort)
    acc_totp    DMCOUNT      (ushort)
    rel_tmax    DMLONG       (long)
        User, Compacted and Stored Tuple Layout DBRACCHASH
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               | |     |       |               |
 0 |            acc_rid            |a|  b  |*******| acc_probdepth |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |            acc_tpag           |            rel_dsze           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |           acc_npag1           |           acc_npag2           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |           acc_npag3           |           acc_npag4           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |           acc_npag5           |            acc_totp           |
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |                           rel_tmax                            |
   |---------------+---------------+---------------+---------------|
```

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```
       ( 24 bytes )

domain alDBRACCHASH struct  (9 sub-attributes)
         acc_rid     short        (short)
 (a)     acc_oflg    .1fake       (enum)
 (b)     acc_foldtyp  .0fake       (enum)
         acc_probdepth  unsigned char (uchar)
         acc_tpag    unsigned short (ushort)
         rel_dsze    unsigned short (ushort)
         acc_npag    .1.fake      (array [ 5 ] of unsigned short )
         acc_totp    unsigned short (ushort)
         rel_tmax    long         (long)
                     Structure Layout  alDBRACCHASH
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               | |     |       |               |
  0 |            acc_rid            |a|  b  |*******| acc_probdepth |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            acc_tpag           |            rel_dsze           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                           acc_npag                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                           acc_npag                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 16 |            acc_npag           |            acc_totp           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                           rel_tmax                            |
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population rules for RLdbraccha

There are no population rules for this relation.

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# DBRACCLIN

## 1. Description

This is the Linear Access Type Specific Dictionary for Redundant ODD (RODD) relations.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | COLPFR |
| application | ALL |
| relation type | DBSTATIC |
| permutation type | un_perm |
| identical | rlDBACCLIN |
| expected tuples | 177 |

## 3. Field Layout

```
DBRACCLIN   relid = 2918  DBSTATIC   DBACC_HASH  DBPRAM    COLPFR  ALL

     acc_rid     DMRELID      (short) <--- key
     acc_tpag    DMCOUNT      (ushort)
     acc_npag    DMCOUNT      (ushort)
     rel_dsze    DMCOUNT      (ushort)
     rel_tmax    DMLONG       (long)
         User, Compacted and Stored Tuple Layout  DBRACCLIN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             acc_rid           |             acc_tpag          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             acc_npag          |             rel_dsze          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |                           rel_tmax                            |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population rules for RLdbraccli

There are no population rules for this relation.

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# DBRACCOPV

## 1. Description

Operational View Access Type Specific Dictionary for Redundant ODD (RODD) relations.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | COLPFR |
| application | ALL |
| relation type | DBSTATIC |
| permutation type | un_perm |
| identical to | rlDBACCOPV |
| expected tuples | 161 |

## 3. Field Layout

```
DBRACCOPV   relid = 2919  DBSTATIC   DBACC_HASH  DBPRAM    COLPFR  ALL


     acc_rid     DMRELID      (short) <--- key
     opv_root    DMRELID      (short)
     tmpkeysz    DMCOUNT      (ushort)
     tmptupsz    DMCOUNT      (ushort)
         User, Compacted and Stored Tuple Layout  DBRACCOPV
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             acc_rid           |             opv_root          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             tmpkeysz          |             tmptupsz          |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLdbraccop

### Relation Description

There are no population rules for this relation.

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# DBRODDACC

## 1. Description

The ODD version of the access dictionary used for all Redundant ODD (RODD) relations.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 500 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | COLPFR |
| application | ALL |
| relation type | DBSTATIC |
| permutation type | un_perm |
| identical to | rlDB_ACCDICT |
| expected tuples | 400 |

## 3. Field Layout

```
DBRODDACC   relid = 2920  DBSTATIC   DBACC_HASH  DBPRAM    COLPFR  ALL

     acc_rid     DMRELID      (short) <--- key
     acc_rcnt    DMITEMCNT    (ushort: 8)
 (a) acc_wflg    DMBOOL       (enum: 1)
 (b) acc_reorg   DMBOOL       (enum: 1)
 (c) acc_grbg    DMBOOL       (enum: 1)
 (d) acc_state   DMACCSTATE   (enum: 3)
     acc_head    DMBLOCKID    (ulong)
     acc_nidx    DMRELID      (short)
     acc_bidx    DMRELID      (short)
     rel_hsze    DMCOUNT      (ushort)

         User, Compacted and Stored Tuple Layout  DBRODDACC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               | | | |     |   |
  0 |            acc_rid            |    acc_rcnt   |a|b|c|  d  |***|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           acc_head                            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            acc_nidx           |            acc_bidx           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |            rel_hsze           |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population rules for RLdbroddac

There are no population rules for this relation.

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# DCHNPRI

## 1. Description

This relation defines the PRI group and mate for a D-channel.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1008 |
| expected number of tuples | 14 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | TMdchnpri |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
DCHNPRI     relid = 1927  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL


    dport       DMGPORT      (struct)  <--- key
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    prigrp      DMPRIGRP     (ushort: 12)
 (a) dchndesg    DMDCHNDESG   (enum: 2)
    interf_id   DMUNS8       (ushort: 8)
    mate_dport  DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
        User, Compacted and Stored Tuple Layout    DCHNPRI
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+============ dport ============+===============|
   |                               |                |                |
 0 |              member           |****************|     module     |
   |===============+===============+================+================|
   |                           |   |   |                |                |
 4 |         prigrp           | a |***|   interf_id    |****************|
   |===============+=========  mate_dport =========+================|
   |                               |                |                |
 8 |              member           |****************|     module     |
   |===============+===============+================+================|
      ( 12 bytes )
```

## 4. Population rules for RLdchnpri

### Relation Description

```
        D-channel to PRI

        This relation defines the PRI D-channels associated
        with a PRI group, which provide the signaling.
```

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The relation also indicates whether the D-channel has a mate. If the D-channel has a mate, it means that the PRI group is provisioned with DCBU (D-Channel Backup) and one of the 2 D-channels must be marked as TMPRIMARY and the other as TMSECONDARY.

**Attribute:**
dport
**Fullname:**
D-channel global port
**Attribute Description:**
This is a global port of a PRI D-channel.

**Attribute:**
prigrp
**Fullname:**
PRI Group
**Attribute Description:**
This specifies the PRI group for which the D-channel provides signaling.

**Attribute:**
dchndesg
**Fullname:**
D-channel designation
**Attribute Description:**
This specifies the PRIMARY or SECONDARY designation of this D-channel. If the PRI Group has just 1 D-channel provisioned, then the value of this attribute may be either TMPRIMARY or TMSECONDARY. The attribute is meaningless when there is only 1 D-channel, so either value may be populated. When there are 2 D-channels provisioned, however, it means the PRI group has DCBU (D-Channel Backup) and this attribute must be TMPRIMARY for one of the D-channels in the PRI group and TMSECONDARY for the other.

**Attribute:**
interf_id
**Fullname:**
Interface ID
**Attribute Description:**
This specifies the interface ID of the facility where the D-channel resides.

**Attribute:**
mate_dport
**Fullname:**
Global port of mate D-channel
**Attribute Description:**

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This specifies the global port of the second D-channel when there are 2 D-channels provisioned for a PRI group (that is, the PRI group has D-Channel Backup).

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# DCPSSS

## 1. Description

DIOR country pair screening special screening.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
DCPSSS      relid = 2168  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     termcc      DMCHAR3      (array [ 3 ] of char )    <--- key
     origcc      DMCHAR3      (array [ 3 ] of char )    <--- key
     carrier     DMUNS4       (ushort: 4)      <--- key
 (a) operator    DMBOOL       (enum: 1)
 (b) screencard  DMBOOL       (enum: 1)
 (c) oaff1       DMBOOL       (enum: 1)
 (d) oaff2       DMBOOL       (enum: 1)
     oaff3       DMCHAR       (char)
         User, Compacted and Stored Tuple Layout DCPSSS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                     termcc                    |     origcc    |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |       | | | | |               |
  4 |             origcc            |carrier|a|b|c|d|     oaff3     |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLdcpsss

**Relation Description** RLdcpsss

RLdcpsss is for the DIOR country pair screening special screening data for the CPS-R2 feature.

**Attribute: termcc**

**Fullname:** Terminating Country Code.

**Attribute Description** DIOR Terminating Country Code.

**Attribute: origcc**

**Fullname:** Originating Country Code.

**Attribute Description** DIOR Originating Country Code.

**Attribute: carrier**

**Fullname:** Originating Carrier.

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**Attribute Description** DIOR Originating Carrier.

```
/* RULE about RLdcpsss.carrier */
for dcpsss in RLdcpsss
where (dcpsss.origcc == "ALL")
begin
      /*
      * When origcc == ALL, carrier must also be all carriers,
      * since cannot single out a specific carrier for all
      * originating countries.
      */
      dcpsss.carrier == 10;
end
```

**Attribute: screencard**

**Fullname:** Screen for AT&T card.

**Attribute Description** Always screen calls from/to this pair to require an AT&T card.

**Attribute: operator**

**Fullname:** Bailout to operator.

**Attribute Description** Always route calls from/to this pair to an operator.

**Attribute: oaff1**

**Fullname:** boolean spare spare.

**Attribute Description** Unused.

**Attribute: oaff2**

**Fullname:** boolean spare spare.

**Attribute Description** Unused.

**Attribute: oaff3**

**Fullname:** character spare.

**Attribute Description** Unused.

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# DDOMREST

## 1. Description

This relation contains the OSPS DIOR credit card restrictions for domestic terminations. This relation is used to define calling card restrictions on calls to domestic numbers for DIOR originated calls.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 25000 |
| expected number of tuples | 5000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| spare | 16s*2:6b |

## 3. Field Layout

```
DDOMREST    relid = 3141  DBSTATIC   DBACC_DHSH  DBPRAM    FG      NULL


    origcc      DMTCSCC      (ushort: 10)      <--- key
    carrier     DMUNS4       (ushort: 4)       <--- key
 (a) restrictcard  DMBOOL       (enum: 1)
    termnpa     DMUNS10      (ushort: 10)      <--- key
        User, Compacted and Stored Tuple Layout   DDOMREST
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                   |       | | |                   |           |
 0 |       origcc      |carrier|a|*|      termnpa      |***********|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 4 |***************************************************************|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population rules for RLddomrest

### Relation Description

OSPS DIOR Credit Card Restrictions for Domestic Terminations

RLddomrest is being used in for the OSPS DIOR Calling Card Restrictions to Domestic Terminations feature (98-5E-4925). This relation will support the OSPS DIOR Domestic Restrictions view (27.80), which provides the capability to define calling card restrictions on DIOR calls to domestic numbers. The relation will be used to specify those originating country, originating local access carrier, and domestic terminating NPA combinations for which card billing is restricted to an AT&T card.

The valid values for each of the key attributes is as follows:

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```
origcc (originating country code) : 200 - 999
carrier (originating local access carrier) : 0 - 10
termnpa (terminating NPA) : 1 - 1000
```

The carrier and termnpa attributes may be set to 10 and 1000, respectively, to indicate that the entry globally applies to all originating local access carriers and/or terminating NPAs. When there are combinations of specific and global entries for a particular originating country code, precedence is applied by call processing in the following manner:

1. Originating country code with specific originating local access carrier and specific terminating NPA.
2. Originating country code with global (10) originating local access carrier and specific terminating NPA.
3. Originating country code with specific originating local access carrier and global (1000) terminating NPA.
4. Originating country code with global (10) originating local access carrier and global (1000) terminating NPA.
5. The absence of an entry in this relation for an originating country code is interpreted as being unrestricted (that is, card billing is not restricted to an AT&T card).

**Attribute:**
origcc
**Fullname:**
Originating DIOR country code
**Attribute Description:**
This attribute defines the originating DIOR country code. In Recent Change, the user may enter a country code in the range of 200 - 999. For 1- or 2-digit country codes, the user must pad the country code with zeros on the right. For example, the user should enter 600 for country code 6, 430 for country code 43, or 721 for country code 721.

**Attribute:**
carrier
**Fullname:**
Originating local access carrier
**Attribute Description:**
This attribute defines the originating local access carrier. In Recent Change, the user may enter a carrier number in the range of 0 - 9 or may leave the field blank. Recent Change mapping code will map a blank entry to the value 10 for storage in the database.

**Attribute:**
termnpa

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**Fullname:**

Terminating numbering plan area (NPA) code

**Attribute Description:**

This attribute defines the terminating numbering plan area (NPA) code. In Recent Change, the user may enter an NPA in the range of 1 - 999 or may leave the field blank. Recent Change mapping code will map a blank entry to the value 1000 for storage in the database.

**Attribute:**

restrictcard

**Fullname:**

Restrict card billing to an AT&T card?

**Attribute Description:**

This attribute defines whether card billing is restricted to an AT&T card for the associated originating country, originating local access carrier, and terminating NPA combination.

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# DEHNP

## 1. Description

Relation containing the DIOR toll free 800 information to determine permissions or restrictions based upon the originating country code.

This relation is to have a distribution of fixed partition (FP), by officecode based on RLdehocsm.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 50000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
DEHNP       relid = 2169  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     inwnpa       DMONPA        (ushort: 10)      <--- key
     officecode   DMINXX        (ushort: 10)      <--- key
     oaff1        DMUNS6        (ushort: 6)
     linenumber   DMLINENO      (ushort: 14)      <--- key
 (a) oaff2        DMMC_BOOL     (enum: 2)
     entries      DMUNS8        (ushort: 8)
     range        DMUNS4        (ushort: 4)       <--- key
 (b) alltrmt      DMEHNTRMT     (enum: 2)
 (c) oaff3        DMMC_BOOL     (enum: 2)
     oaff4        DMUSHORT      (ushort)
     caclst00     DMCACLIST     (struct)
         cac          DMUNS10       (ushort: 10)
 (d)     is809nxx     DMMC_BOOL     (enum: 2)
 (e)     trmt         DMEHNTRMT     (enum: 2)
 (f)     oaff1        DMMC_BOOL     (enum: 2)
         oaff2        DMUNS8        (ushort: 8)
         oaff3        DMUNS4        (ushort: 4)
 (g)     oaff4        DMMC_BOOL     (enum: 2)
 (h)     oaff5        DMMC_BOOL     (enum: 2)
     caclst01     DMCACLIST     (struct)
         cac          DMUNS10       (ushort: 10)
 (i)     is809nxx     DMMC_BOOL     (enum: 2)
 (j)     trmt         DMEHNTRMT     (enum: 2)
 (k)     oaff1        DMMC_BOOL     (enum: 2)
         oaff2        DMUNS8        (ushort: 8)
         oaff3        DMUNS4        (ushort: 4)
 (l)     oaff4        DMMC_BOOL     (enum: 2)
 (m)     oaff5        DMMC_BOOL     (enum: 2)
     caclst02     DMCACLIST     (struct)
         cac          DMUNS10       (ushort: 10)
 (n)     is809nxx     DMMC_BOOL     (enum: 2)
 (o)     trmt         DMEHNTRMT     (enum: 2)
 (p)     oaff1        DMMC_BOOL     (enum: 2)
         oaff2        DMUNS8        (ushort: 8)
```

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```
        oaff3       DMUNS4       (ushort: 4)
(q)     oaff4       DMMC_BOOL    (enum: 2)
(r)     oaff5       DMMC_BOOL    (enum: 2)
    caclst03    DMCACLIST    (struct)
        cac         DMUNS10      (ushort: 10)
(s)     is809nxx    DMMC_BOOL    (enum: 2)
(t)     trmt        DMEHNTRMT    (enum: 2)
(u)     oaff1       DMMC_BOOL    (enum: 2)
        oaff2       DMUNS8       (ushort: 8)
        oaff3       DMUNS4       (ushort: 4)
(v)     oaff4       DMMC_BOOL    (enum: 2)
(w)     oaff5       DMMC_BOOL    (enum: 2)
    caclst04    DMCACLIST    (struct)
        cac         DMUNS10      (ushort: 10)
(x)     is809nxx    DMMC_BOOL    (enum: 2)
(y)     trmt        DMEHNTRMT    (enum: 2)
(z)     oaff1       DMMC_BOOL    (enum: 2)
        oaff2       DMUNS8       (ushort: 8)
        oaff3       DMUNS4       (ushort: 4)
(A)     oaff4       DMMC_BOOL    (enum: 2)
(B)     oaff5       DMMC_BOOL    (enum: 2)
    caclst05    DMCACLIST    (struct)
        cac         DMUNS10      (ushort: 10)
(C)     is809nxx    DMMC_BOOL    (enum: 2)
(D)     trmt        DMEHNTRMT    (enum: 2)
(E)     oaff1       DMMC_BOOL    (enum: 2)
        oaff2       DMUNS8       (ushort: 8)
        oaff3       DMUNS4       (ushort: 4)
(F)     oaff4       DMMC_BOOL    (enum: 2)
(G)     oaff5       DMMC_BOOL    (enum: 2)
    caclst06    DMCACLIST    (struct)
        cac         DMUNS10      (ushort: 10)
(H)     is809nxx    DMMC_BOOL    (enum: 2)
(I)     trmt        DMEHNTRMT    (enum: 2)
(J)     oaff1       DMMC_BOOL    (enum: 2)
        oaff2       DMUNS8       (ushort: 8)
        oaff3       DMUNS4       (ushort: 4)
(K)     oaff4       DMMC_BOOL    (enum: 2)
(L)     oaff5       DMMC_BOOL    (enum: 2)
    caclst07    DMCACLIST    (struct)
        cac         DMUNS10      (ushort: 10)
(M)     is809nxx    DMMC_BOOL    (enum: 2)
(N)     trmt        DMEHNTRMT    (enum: 2)
(O)     oaff1       DMMC_BOOL    (enum: 2)
        oaff2       DMUNS8       (ushort: 8)
        oaff3       DMUNS4       (ushort: 4)
(P)     oaff4       DMMC_BOOL    (enum: 2)
(Q)     oaff5       DMMC_BOOL    (enum: 2)
    caclst08    DMCACLIST    (struct)
        cac         DMUNS10      (ushort: 10)
(R)     is809nxx    DMMC_BOOL    (enum: 2)
(S)     trmt        DMEHNTRMT    (enum: 2)
(T)     oaff1       DMMC_BOOL    (enum: 2)
        oaff2       DMUNS8       (ushort: 8)
```

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```
        oaff3       DMUNS4       (ushort: 4)
(U)     oaff4       DMMC_BOOL    (enum: 2)
(V)     oaff5       DMMC_BOOL    (enum: 2)
    caclst09    DMCACLIST    (struct)
        cac         DMUNS10      (ushort: 10)
(W)     is809nxx    DMMC_BOOL    (enum: 2)
(X)     trmt        DMEHNTRMT    (enum: 2)
(Y)     oaff1       DMMC_BOOL    (enum: 2)
        oaff2       DMUNS8       (ushort: 8)
        oaff3       DMUNS4       (ushort: 4)
(Z)     oaff4       DMMC_BOOL    (enum: 2)
(a)     oaff5       DMMC_BOOL    (enum: 2)
    caclst10    DMCACLIST    (struct)
        cac         DMUNS10      (ushort: 10)
(b)     is809nxx    DMMC_BOOL    (enum: 2)
(c)     trmt        DMEHNTRMT    (enum: 2)
(d)     oaff1       DMMC_BOOL    (enum: 2)
        oaff2       DMUNS8       (ushort: 8)
        oaff3       DMUNS4       (ushort: 4)
(e)     oaff4       DMMC_BOOL    (enum: 2)
(f)     oaff5       DMMC_BOOL    (enum: 2)
    caclst11    DMCACLIST    (struct)
        cac         DMUNS10      (ushort: 10)
(g)     is809nxx    DMMC_BOOL    (enum: 2)
(h)     trmt        DMEHNTRMT    (enum: 2)
(i)     oaff1       DMMC_BOOL    (enum: 2)
        oaff2       DMUNS8       (ushort: 8)
        oaff3       DMUNS4       (ushort: 4)
(j)     oaff4       DMMC_BOOL    (enum: 2)
(k)     oaff5       DMMC_BOOL    (enum: 2)
    caclst12    DMCACLIST    (struct)
        cac         DMUNS10      (ushort: 10)
(l)     is809nxx    DMMC_BOOL    (enum: 2)
(m)     trmt        DMEHNTRMT    (enum: 2)
(n)     oaff1       DMMC_BOOL    (enum: 2)
        oaff2       DMUNS8       (ushort: 8)
        oaff3       DMUNS4       (ushort: 4)
(o)     oaff4       DMMC_BOOL    (enum: 2)
(p)     oaff5       DMMC_BOOL    (enum: 2)
    caclst13    DMCACLIST    (struct)
        cac         DMUNS10      (ushort: 10)
(q)     is809nxx    DMMC_BOOL    (enum: 2)
(r)     trmt        DMEHNTRMT    (enum: 2)
(s)     oaff1       DMMC_BOOL    (enum: 2)
        oaff2       DMUNS8       (ushort: 8)
        oaff3       DMUNS4       (ushort: 4)
(t)     oaff4       DMMC_BOOL    (enum: 2)
(u)     oaff5       DMMC_BOOL    (enum: 2)
        User, Compacted and Stored Tuple Layout  DEHNP
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                   |           |                   |           |
 0 |       inwnpa      |***********|     officecode    |   oaff1   |
```

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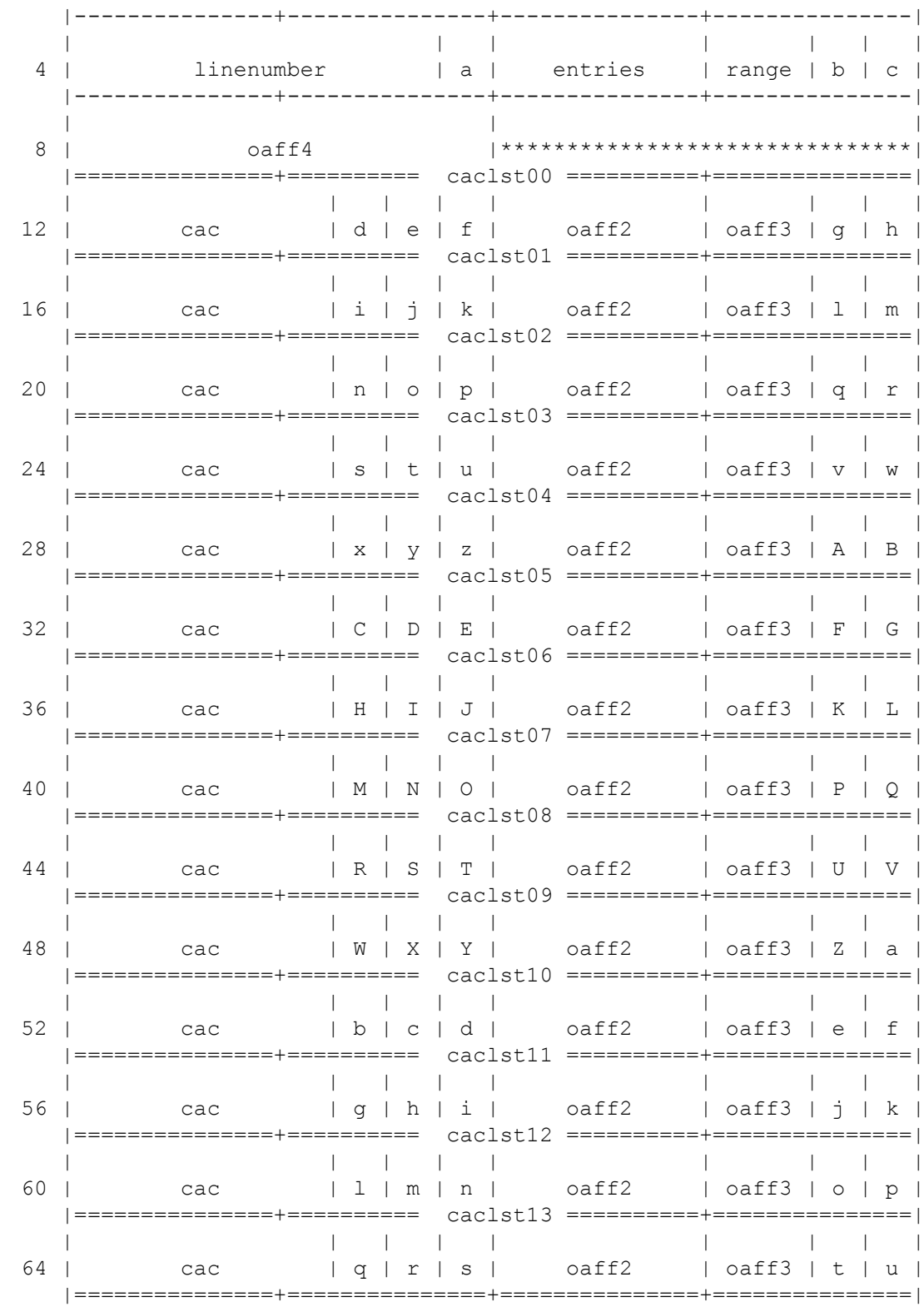


( 68 bytes )

| | | |
|---|---|---|
| inwnpa | .9.fake | (ushort: 10) |
| officecode | .10.fake | (ushort: 10) |
| oaff1 | .11.fake | (ushort: 6) |
| linenumber | .12.fake | (ushort: 14) |

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```
(a)     oaff2       .1fake       (enum)
        entries     .13.fake     (ushort)
        range       .14.fake     (ushort: 4)
(b)     alltrmt     .0fake       (enum)
(c)     oaff3       .1fake       (enum)
        oaff4       unsigned short (ushort)
        caclstxx    .15.fake     (array [ 14 ] of .2fake )
            cac         .0.fake      (ushort: 10)
(d)         is809nxx    .1fake       (enum)
(e)         trmt        .0fake       (enum)
(f)         oaff1       .1fake       (enum)
            oaff2       .1.fake      (ushort)
            oaff3       .2.fake      (ushort: 4)
(g)         oaff4       .1fake       (enum)
(h)         oaff5       .1fake       (enum)
```

Structure Layout alDEHNP

| | 3 3 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 |
|---|---|
| | 1 0 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0 |
| 0 | inwnpa \| ********** \| officeco \| oaff1 |
| 4 | linenumb \| a \| entries \| range \| b \| c |
| 8 | oaff4 \| ******************************** |
| | caclstxx[0] |
| 12 | cac \| d \| e \| f \| oaff2 \| oaff3 \| g \| h |
| | caclstxx[1] |
| 16 | cac \| d \| e \| f \| oaff2 \| oaff3 \| g \| h |
| | caclstxx[2] |
| 20 | cac \| d \| e \| f \| oaff2 \| oaff3 \| g \| h |
| | caclstxx[3] |
| 24 | cac \| d \| e \| f \| oaff2 \| oaff3 \| g \| h |
| | caclstxx[4] |
| 28 | cac \| d \| e \| f \| oaff2 \| oaff3 \| g \| h |
| | caclstxx[5] |
| 32 | cac \| d \| e \| f \| oaff2 \| oaff3 \| g \| h |
| | caclstxx[6] |
| 36 | cac \| d \| e \| f \| oaff2 \| oaff3 \| g \| h |
| | caclstxx[7] |
| 40 | cac \| d \| e \| f \| oaff2 \| oaff3 \| g \| h |
| | caclstxx[8] |
| 44 | cac \| d \| e \| f \| oaff2 \| oaff3 \| g \| h |

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```
    |===============+========= caclstxx[9] =========+===============|
    |                    |   |   |   |               |       |   |   |
 48 |        cac         | d | e | f |     oaff2     | oaff3 | g | h |
    |===============+========  caclstxx[10] ========+===============|
    |                    |   |   |   |               |       |   |   |
 52 |        cac         | d | e | f |     oaff2     | oaff3 | g | h |
    |===============+========  caclstxx[11] ========+===============|
    |                    |   |   |   |               |       |   |   |
 56 |        cac         | d | e | f |     oaff2     | oaff3 | g | h |
    |===============+========  caclstxx[12] ========+===============|
    |                    |   |   |   |               |       |   |   |
 60 |        cac         | d | e | f |     oaff2     | oaff3 | g | h |
    |===============+========  caclstxx[13] ========+===============|
    |                    |   |   |   |               |       |   |   |
 64 |        cac         | d | e | f |     oaff2     | oaff3 | g | h |
    |===============+===============+===============+===============|
       ( 68 bytes )
```

## 4. Population Rules for RLdehnp

**Relation Description** RLdehnp

RLdehnp is for the DIOR Toll Free 800 data for the DIOR 800 feature.

**Attribute: inwnpa**

**Fullname:** INWATTS NPA.

**Attribute Description** NPA of the INWATTS/toll free number utilizing this feature.

**Attribute: officecode**

**Fullname:** Office Code.

**Attribute Description** Office Code of the INWATTS/toll free number utilizing this feature.

**Attribute: oaff1**

**Fullname:** 6-bit spare.

**Attribute Description** Unused.

**Attribute: linenumber**

**Fullname:** Line Number.

**Attribute Description** Line number of the INWATTS/toll free number utilizing this feature.

**Attribute: oaff2**

**Fullname:** tri-state boolean spare.

**Attribute Description** Unused.

**Attribute: range**

**Fullname:** range

**Attribute Description** Third key to allow multiple tuples for the same inwnpa, office code and line number.

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**Attribute: entries**

**Fullname:** Number of entries.

**Attribute Description** Number of entries in the caclists of all tuples having the same inwnpa, office code and line number.

```
/* RULE about RLdehnp.entries */
for dehnp in RLdehnp
where (dehnp.range != 0)
begin
        dehnp.entries == 0;
end
```

**Attribute: alltrmt**

**Fullname:** All treatment.

**Attribute Description** Default treatment to be given to a call made to this INWATTS number from a country access code that is not in the following caclst.

```
/* RULE about RLdehnp.alltrmt */
for dehnp in RLdehnp
begin
     if (dehnp.range == 0) then
     begin
        dehnp.alltrmt != EH_NULL;
        if (dehnp.entries == 0) then
               dehnp.alltrmt != EH_CALLER;
     end
     else
        dehnp.alltrmt == EH_NULL;
end
```

**Attribute: oaff3**

**Fullname:** 3 bit spare.

**Attribute Description** Unused.

**Attribute: oaff4**

**Fullname:** unsigned short spare.

**Attribute Description** Unused.

**Attribute: caclst[*]**

**Fullname:** Country Access Code list

**Attribute Description** List of country access codes and their treatments.

**Attribute: caclst[*].cac**

**Fullname:** Country access code.

**Attribute Description** Country access code having treatment different than alltrmt.

**Attribute: caclst[*].is809nxx**

**Fullname:** Is 809 NXX.

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**Attribute Description** Is the country access code an 809 NXX.

**Attribute: caclst[*].trmt**
**Fullname:** Treatment.

**Attribute Description** Treatment to be given to the corresponding country access code.

**Attribute: caclst[*].oaff1**
**Fullname:** spare 1

**Attribute Description** Tri-state boolean spare.

**Attribute: caclst[*].oaff2**
**Fullname:** spare 2

**Attribute Description** Unsigned 8 bit spare.

**Attribute: caclst[*].oaff3**
**Fullname:** spare 3

**Attribute Description** Unsigned 4 bit spare.

**Attribute: caclst[*].oaff4**
**Fullname:** spare 4

**Attribute Description** Tri-state boolean spare.

**Attribute: caclst[*].oaff5**
**Fullname:** spare 5

**Attribute Description** Tri-state boolean spare.

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# DEHOCSM

## 1. Description

Maps DIOR INWATTS number office codes to SMs by DIOR feature type.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
DEHOCSM     relid = 2170  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     inwnpa       DMONPA       (ushort: 10)      <--- key
 (a) feature      DMDIORFEAT   (enum: 3) <--- key
     oaff1        DMUNS3       (ushort: 3)
     officecode   DMINXX       (ushort: 10)      <--- key
     sm           DMMODULE     (ushort: 8)
     oaff2        DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout    DEHOCSM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |     |     |                   |           |
  0 |       inwnpa      |  a  |oaff1|     officecode    |***********|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  4 |       sm      |     oaff2     |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLdehocsm

**Relation Description**

RLdehocsm

RLdehocsm is for mapping INWATTS number office code data to an SM for various DIOR features built around INWATTS numbers.

**Attribute: inwnpa**

**Fullname:** INWATTS NPA.

**Attribute Description** NPA of the INWATTS/toll free number utilizing this feature.

**Attribute: officecode**

**Fullname:** Office Code.

**Attribute Description** Office Code of an INWATTS number being used by a DIOR feature.

**Attribute: feature**

**Fullname:** DIOR feature.

**Attribute Description** DIOR feature requiring data about INWATTS numbers.

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**Attribute: oaff1**

**Fullname:** 3-bit spare.

**Attribute Description** Unused.

**Attribute: sm**

**Fullname:** Switching Module.

**Attribute Description** Switching Module on which to store the INWATTS number data for this office code and DIOR feature.

**Attribute: oaff2**

**Fullname:** 8 bit spare.

**Attribute Description** Unused.

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# DF2THRSH

## 1. Description

This relation contains performance monitoring thresholds for DFI-2 facilities.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LRFG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |
| trigger function | TMdf2thrsh |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| foldtype | DBDEFAULT |

## 3. Field Layout

```
DF2THRSH    relid = 1851  DBSTATIC   DBACC_HASH  DBPRAM    LRFG    NULL
     pmgrp       DMFACID      (ushort)  <--- key
     bes24       DMUSHORT     (ushort)
     bpv24       DMUSHORT     (ushort)
     cofa24      DMUSHORT     (ushort)
     crc24       DMUSHORT     (ushort)
     es24        DMUSHORT     (ushort)
     fs24        DMUSHORT     (ushort)
     ses24       DMUSHORT     (ushort)
     slip24      DMUSHORT     (ushort)
     bes15       DMUNS12      (ushort: 12)
 (a) inh24       DMBOOL       (enum: 1)
 (b) inh15       DMBOOL       (enum: 1)
     bpv15       DMUNS12      (ushort: 12)
     cofa15      DMUNS12      (ushort: 12)
     crc15       DMUNS12      (ushort: 12)
     es15        DMUNS12      (ushort: 12)
     fs15        DMUNS12      (ushort: 12)
     ses15       DMUNS12      (ushort: 12)
     slip15      DMUNS12      (ushort: 12)
         User, Compacted and Stored Tuple Layout   DF2THRSH
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             pmgrp             |             bes24             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             bpv24             |             cofa24            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |             crc24             |              es24             |
```

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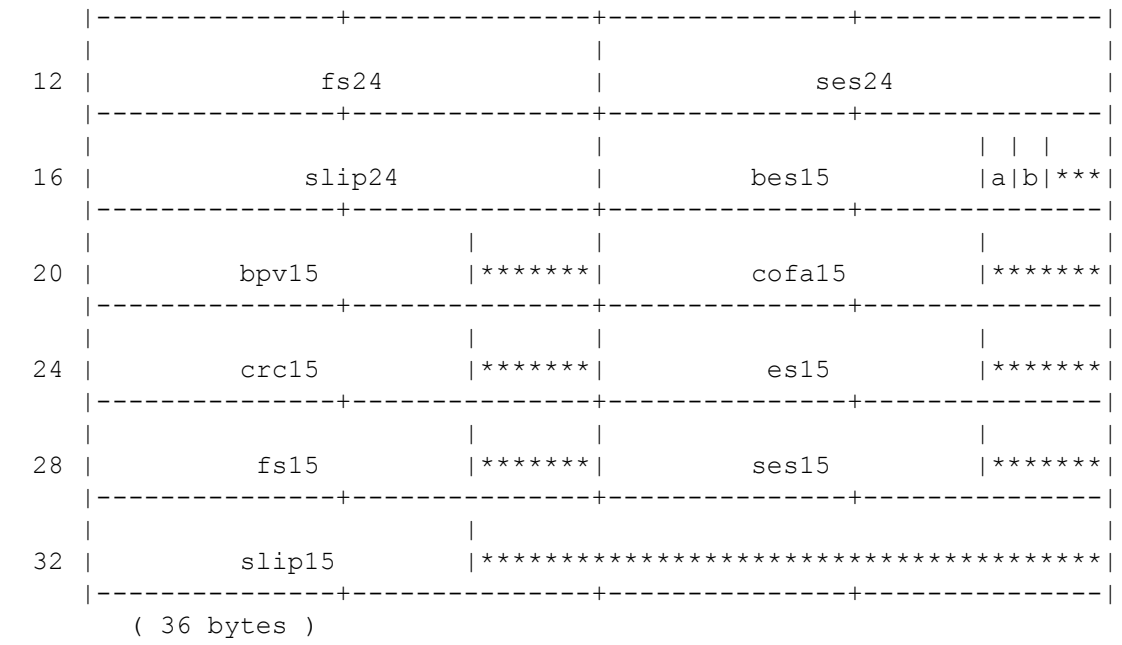


## 4. Population Rules for RLdf2thrsh

**Relation Description** Line and path performance monitoring thresholds for DFI-2 facilities.

This relation contains the line and path performance monitoring alert thresholds that are associated with DFI-2 facilities. Tuples are created, modified, or deleted when DFI-2 facility PM groups are modified via recent change or ODA.

A performance monitoring group defines the thresholds and inhibits that will be set for one or more facility on a DFI-2.

A line is a physical connection that may carry a portion or all of one or more paths. A path is a connection between two points, independent of the physical means of transporting the signal.

The following PM parameter thresholds are contained in this relation:

```
Bipolar Violation
Bursty Errored Second
Change of Frame Alignment
Cyclic Redundancy Code
Errored Second
Failed Second
Severely Errored Second
Slip Second
```

One tuple on the AM/CMP for each performance monitoring group (PMGRP). This tuple resides only in the logical processor until it is associated with an DFI-2 facility.

A PMGRP can be inserted at any time and must exist before being referenced by RLpmfacgrp or RLpmgrpfac.

This relation will always be populated with at least two tuples in the AM/CMP. These PMGRPs are named /DF2GDEF and DF2DEF.

The tuple corresponding to PMGRP /DF2GDEF is the generic office default tuple. This tuple can be verified but not changed and never has any DS1s assigned to it. The default attribute values for /DF2GDEF are as follows:

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```
inh15   DBNO
inh24   DBNO
bpv24   65535
bes24   600
cofa24  511
crc24   65535
es24    1706
fs24    90
ses24   90
slip24  255
bpv15   4095
bes15   100
cofa15  17
crc15   4095
es15    75
fs15    30
ses15   30
slip15  4
```

Although the /DF2GDEF tuple is not recent changeable (to protect generic defaults), the ability to change the defaults on an office basis is still required. Therefore, there is another tuple called DF2DEF that is initially populated with the values from /DF2GDEF. DF2DEF is recent changeable and changeable by ODA, but its name cannot be changed. When a DFI-2 FAC is configured, a PMGRP is required. If a PMGRP is not specified, the group will default to DF2DEF.

The /DF2GDEF tuple is populated only in the AM/CMP.

Other PMGRPs can be defined at any time. Each PMGRP may have from none up to all of the DFI-2 FACs in the office assigned to it. One tuple is populated in the logical processor for each PMGRP. A tuple is copied from the logical processor into a given SM when a DS1 in that SM is assigned to the tuple's PMGRP (in RLpmgrpfac and RLpmfacgrp).

An RLpmdf2thrsh tuple cannot be deleted on an SM until the group is no longer referenced on the SM in RLpmfacgrp. A RLpmdf2thrsh tuple cannot be deleted on the AM/CMP until the group is no longer referenced on any SM.

DS1s which currently use this relation are DFI-2 facilities. Others may be added in the future.

Default values for RLpmdf2thrsh tuple attributes are the values of those attribu

tes in the DF2DEF tuple. This can not be specified in PRL and therefore is not shown in the 'default' field associated with each of the following attribute.

**Attribute: pmgrp**

**Fullname:** Performance Monitoring Group

**Attribute Description** This is the performance monitoring group ID.

**Attribute: bes24**

**Fullname:** Bursty Errored Seconds Daily Alerting Threshold

**Attribute Description** This is the daily alerting threshold for bursty errored seconds.

**Attribute: bpv24**

**Fullname:** Bipolar Violation Daily Alerting Threshold

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**Attribute Description** This is the daily alerting threshold for bipolar violation events.

**Attribute: cofa24**

**Fullname:** Change of Frame Alignment Daily Alerting Threshold

**Attribute Description** This is the daily alerting threshold for change of frame alignment.

**Attribute: crc24**

**Fullname:** Cyclic Redundancy Code Daily Alerting Threshold

**Attribute Description** This is the daily alerting threshold for cyclic redundancy code.

**Attribute: es24**

**Fullname:** Errored Seconds Daily Alerting Threshold

**Attribute Description** This is the Daily alerting threshold for errored seconds.

**Attribute: fs24**

**Fullname:** Failed Seconds Daily Alerting Threshold

**Attribute Description** This is the daily alerting threshold for failed seconds.

**Attribute: ses24**

**Fullname:** Severly Errored Seconds Daily Alerting Threshold

**Attribute Description** This is the daily alerting threshold for severely errored seconds.

**Attribute: slip24**

**Fullname:** Slip Seconds Daily Alerting Threshold

**Attribute Description** This is the daily alerting threshold for slip seconds.

**Attribute: bes15**

**Fullname:** Bursty Errored Seconds 15-Minute Alerting Threshold

**Attribute Description** This is the 15-minute alerting threshold for bursty errored seconds.

**Attribute: bpv15**

**Fullname:** Bipolar Violation 15-Minute Alerting Threshold

**Attribute Description** This is the 15-minute alerting threshold for bipolar violation events.

**Attribute: cofa15**

**Fullname:** Change of Frame Alignment 15-Minute Alerting Threshold

**Attribute Description** This is the 15-minute alerting threshold for change of frame alignment.

**Attribute: crc15**

**Fullname:** Cyclic Redundancy Code 15-Minute Alerting Threshold

**Attribute Description** This is the 15-minute alerting threshold for cyclic redundancy code.

**Attribute: es15**

**Fullname:** Errored Seconds 15-Minute Alerting Threshold

**Attribute Description** This is the 15-minute alerting threshold for errored seconds.

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**Attribute: fs15**

**Fullname:** Failed Seconds 15-Minute Alerting Threshold

**Attribute Description** This is the 15-minute alerting threshold for failed seconds.

**Attribute: ses15**

**Fullname:** Severly Errored Seconds 15-Minute Alerting Threshold

**Attribute Description** This is the 15-minute alerting threshold for severely errored seconds.

**Attribute: slip15**

**Fullname:** Slip Seconds 15-Minute Alerting Threshold

**Attribute Description** This is the 15-minute alerting threshold for slip seconds.

**Attribute: inh24**

**Fullname:** Condition of Daily Alerts

**Attribute Description** This is the condition (inhibited or allowed) of daily alerts. DBYES indicates that daily alerts are inhibited. DBNO indicates that daily alerts are allowed.

**Attribute: inh15**

**Fullname:** Condition of 15 Minute Alerts

**Attribute Description** This is the condition (inhibited or allowed) of 15 minute alerts. DBYES indicated that 15 minute alerts are inhibited. DBNO indicates that 15 minute alerts are allowed.

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# DFI

## 1. Description

This relation maps the *5ESS*®—2000 swtich facility circuit name to an AFAC number. There is a unique AFAC number assigned to each facility used to carry AMPS traffic.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 46 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | TMdfi_trig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| head table size | 256 |
| data page size | 256 |

## 3. Field Layout

```
DFI          relid = 2074  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     facname     DMCIRCUIT    (ushort)    <--- key
     afac_id     DMUNS10      (ushort: 10)
         User, Compacted and Stored Tuple Layout    DFI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                   |           |
  0 |            facname            |      afac_id      |***********|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population rules for RLdfi

### Relation Description

```
        Digital Facility Interface

        This relation maps the 5ESS(R)-2000 switch facility circuit name to
        an Autoplex(R) FACility (AFAC) number.  There is a unique AFAC number
        assigned to each facility used to carry AMPS traffic.

        This relation will map both DFI and DNU_S facilities.
```

**Attribute:**

```
        facname
```

**Fullname:**

```
        DFI1, DFI2, or DS1 Facility Name.
```

**Attribute Description:**

```
        Indicates the circuit name of the facility.
```

**Attribute:**

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afac_id

**Fullname:**

AMPS Facility Identifier.

**Attribute Description:**

Unique AMPS facility identification number.

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# DFTST

## 1. Description

This relation associates the external Main Distribution Frame (MDF) Test Trunk Circuit (TTC) with the internal switch dedicated connections : the specific Metallic Service Unit (MSU) Distributing Frame Test Access Circuit (DFTAC), the TN1040, and the global port name of the dedicated line wired to the DFTAC dedicated line appearance. In addition, the MSU, service group, and shelf number of the DFTAC circuit is contained here. For operational routing to this DFTAC circuit the global portname of the DFTAC logical port name is provided.

The external MDF TTC is identified via a MDF TTC frame number and a MDF TTC trunk number corresponding to the MDF TTC circuit pack in the MDF frame.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | MPH |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 1024 |
| page level | 0 |

## 3. Field Layout

```
DFTST       relid = 560   DBSTATIC   DBACC_HASH  DBPRAM    LP      MPH
     mdf_frame    DMGRPNUM      (ushort)      <--- key
     mdfttc_number  DMMEMBER      (ushort)      <--- key
 (a) shelf        DMUNS2        (ushort: 2)
 (b) msu          DMUNS1        (ushort: 1)
 (c) sg           DMUNS1        (ushort: 1)
     dftac_id     DMGCIRCUIT    (struct)
         circuit      DMCIRCUIT     (ushort)
         module       DMMODULE      (ushort: 8)
     dftac_ltp    DMGPORT       (struct)
         member       DMPORT        (ushort)
         module       DMMODULE      (ushort: 8)
     dedicated_line  DMGPORT       (struct)
         member       DMPORT        (ushort)
         module       DMMODULE      (ushort: 8)
         User, Compacted and Stored Tuple Layout  DFTST
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |           mdf_frame           |         mdfttc_number         |
    |---------------+---------------+---------------+---------------|
    |   | | |                                                       |
  4 | a |b|c|*******************************************************|
    |===============+==========  dftac_id ==========+===============|
    |                               |                               |
  8 |             circuit           |***************|     module    |
    |===============+========== dftac_ltp ==========+===============|
    |                               |               |               |
```

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```
 12 |             member            |***************|     module    |
    |===============+=======  dedicated_line =======+===============|
    |                                |               |               |
 16 |             member            |***************|     module    |
    |===============+===============+===============+===============|
       ( 20 bytes )
```

## 4. Population Rules for RLdftst

**Relation Description** Distribution Frame Test
This relation associates the external Main Distribution Frame (MDF) Test Trunk Circuit (TTC) with the internal switch dedicated connections:

- the specific Metallic Service Unit (MSU) Distributing Frame Test Access Circuit (DFTAC), the TN1040, and
- the global port name of the dedicated line wired to the DFTAC dedicated line appearance.

In addition, the MSU, service group, and shelf number of the DFTAC circuit is contained here. For operational routing to this DFTAC circuit the global portname of the DFTAC logical port name is provided.
The external MDF TTC is identified via a MDF TTC frame number and a MDF TTC trunk number corresponding to the MDF TTC circuit pack in the MDF frame.

```
KEY FORMAT: LOGICAL TEST PORT NAME
-----------------------------------------------------------------
|                    LOGICAL TEST PORTNAME                      |
|---------------------------------------------------------------|
|                |                |                             |
| 1   0   1   0 | 0   0   0   1  |  logical port member number  |
|                |                |                             |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
15  14  13  12  11  10   9   8   7   6   5   4   3   2   1   0
```

Logical port member 0-255.

**Attribute: mdf_frame**

**Fullname:** MDF TTC Frame Number Identifier

**Attribute Description** MDF TTC frame number identifier. This value can range from 1 to 255. A host office will only have one MDF TTC frame. There will be only one MDF TTC frame number at each RSM site, even considering cluster RSMs. There is no standard convention to name these MDF TTC frames. The mdf_frame number must be identical to the trunk group number of a trunk group of logical test ports with service class TMDFTACLTP. That trunk group connects the DFTAC (TN1040) to the MDF TTC. This is the MDF trunk number with which MLT-2 gains access to an MDF frame.

**Attribute: mdfttc_number**

**Fullname:** MDF TTC Trunk Number Identifier

**Attribute Description** MDF TTC trunk number identifier. This value can range from 1 to 999 or from 0 to 999. The mdfttc_number is the trunk group member number in this trunk group that connects the DFTAC to that MDF TTC.

**Attribute: dftac_id**

**Fullname:** DFTAC Circuit ID

**Attribute Description** This attribute is divided into sub-attribute dftac_id.circuit and

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dftac_id.module. Circuit the circuit name of the physical DFTAC circuit as should be assigned in relation RLcktdata.

```
circuit - 2 byte hex field
high order byte = PICB + 1
low order byte =
slot number in MMSU in hex (00-1f)
```

Module refers to the Interface Module in which this DFTAC circuit is located. Possibilities range from 1 to 192. The dftac_id must be unique for a given mdf_frame/mdfttc_number.

**Attribute: dftac_id.circuit**

**Fullname:** Circuit

**Attribute Description** Circuit name of DFTAC circuit in RLcktdata.

**Attribute: dftac_id.module**

**Fullname:** Module

**Attribute Description** Module to which the DFTAC circuit is connected.

**Attribute: dftac_ltp**

**Fullname:** Logical Test Port for DFTAC

**Attribute Description** This attribute is divided into sub-attribute dftac_ltp.member and dftac_ltp.module. Member is the port name of the logical test port that should be assigned as in relation RLfc_porttyp with servclass TMDFTACLTP and lp_type of PCDFTSTPORT. Module refers to the Interface Module in which this logical test port is located. Possibilities range from 1 to 192. This logical test port must be defined in the IM where the physical DFTAC circuit is located. See logical test port name here. The dftac_ltp must be unique for a given mdf_frame/mdfttc_number.

**Attribute: dftac_ltp.member**

**Fullname:** Member

**Attribute Description** Port name of the LTP used by the DFTAC circuit.

**Attribute: dftac_ltp.module**

**Fullname:** Module

**Attribute Description** The module on which the DFTAC LTP resides.

**Attribute: dedicated_line**

**Fullname:** gport for the dedicated line

**Attribute Description** This attribute is divided into sub-attribute dedicated_line.member and dedicated_line.module. Member is the port name of a line that should be assigned as in relation RLfc_line. Module refers to the Interface Module in which this line is located. The possibilities range from 1 to 192. See line unit port name here. The dedicated_line must be unique for a given mdf_frame/mdfttc_number.

**Attribute: dedicated_line.member**

**Fullname:** Member

**Attribute Description** Port of the dedicated line used by the DFTAC circuit.

**Attribute: dedicated_line.module**

**Fullname:** Module

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**Attribute Description** Module on which the port of the dedicated line resides.

**Attribute: msu**

**Fullname:** Metallic Service Unit Number

**Attribute Description** The metallic service unit number iused by the DFTAC.

**Attribute: sg**

**Fullname:** MSU Service Group Number

**Attribute Description** Is the MSU service group number used by the DFTAC.

**Attribute: shelf**

**Fullname:** MSU Service Group Shelf Number

**Attribute Description** The MSU service group shelf number.

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# DGRP_RI

## 1. Description

This relation contains information pertaining to the RISLU D-channel piggy-back groups on a per shelf basis.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| expected number of tuples | 1 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
DGRP_RI     relid = 1226  DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL
     psushlf     DMCIRCUIT    (ushort)     <--- key
 (a) log_pidb    DMUNS2       (ushort: 2)     <--- key
     pgbkgp0     DMDGRP       (struct)
         dport0      DMPORT       (ushort)
         dport1      DMPORT       (ushort)
         dport2      DMPORT       (ushort)
         dport3      DMPORT       (ushort)
         dsl_group   DMPHNBR      (uchar: 7)
     pgbkgp1     DMDGRP       (struct)
         dport0      DMPORT       (ushort)
         dport1      DMPORT       (ushort)
         dport2      DMPORT       (ushort)
         dport3      DMPORT       (ushort)
         dsl_group   DMPHNBR      (uchar: 7)
     pgbkgp2     DMDGRP       (struct)
         dport0      DMPORT       (ushort)
         dport1      DMPORT       (ushort)
         dport2      DMPORT       (ushort)
         dport3      DMPORT       (ushort)
         dsl_group   DMPHNBR      (uchar: 7)
     pgbkgp3     DMDGRP       (struct)
         dport0      DMPORT       (ushort)
         dport1      DMPORT       (ushort)
         dport2      DMPORT       (ushort)
         dport3      DMPORT       (ushort)
         dsl_group   DMPHNBR      (uchar: 7)
     pgbkgp4     DMDGRP       (struct)
         dport0      DMPORT       (ushort)
         dport1      DMPORT       (ushort)
         dport2      DMPORT       (ushort)
         dport3      DMPORT       (ushort)
         dsl_group   DMPHNBR      (uchar: 7)
     pgbkgp5     DMDGRP       (struct)
         dport0      DMPORT       (ushort)
         dport1      DMPORT       (ushort)
         dport2      DMPORT       (ushort)
```

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```
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp6     DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp7     DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp8     DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp9     DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp10    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp11    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp12    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp13    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp14    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
```

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```
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp15    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp16    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp17    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp18    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp19    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp20    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp21    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp22    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp23    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
```

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```
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp24    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp25    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp26    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
     dsl_group   DMPHNBR      (uchar: 7)
pgbkgp27    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp28    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp29    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp30    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
pgbkgp31    DMDGRP       (struct)
    dport0      DMPORT       (ushort)
    dport1      DMPORT       (ushort)
    dport2      DMPORT       (ushort)
    dport3      DMPORT       (ushort)
    dsl_group   DMPHNBR      (uchar: 7)
whlgpmask   DMHEX32      (ulong)
partgpmask  DMHEX32      (ulong)
    User, Compacted and Stored Tuple Layout    DGRP_RI
|3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
```

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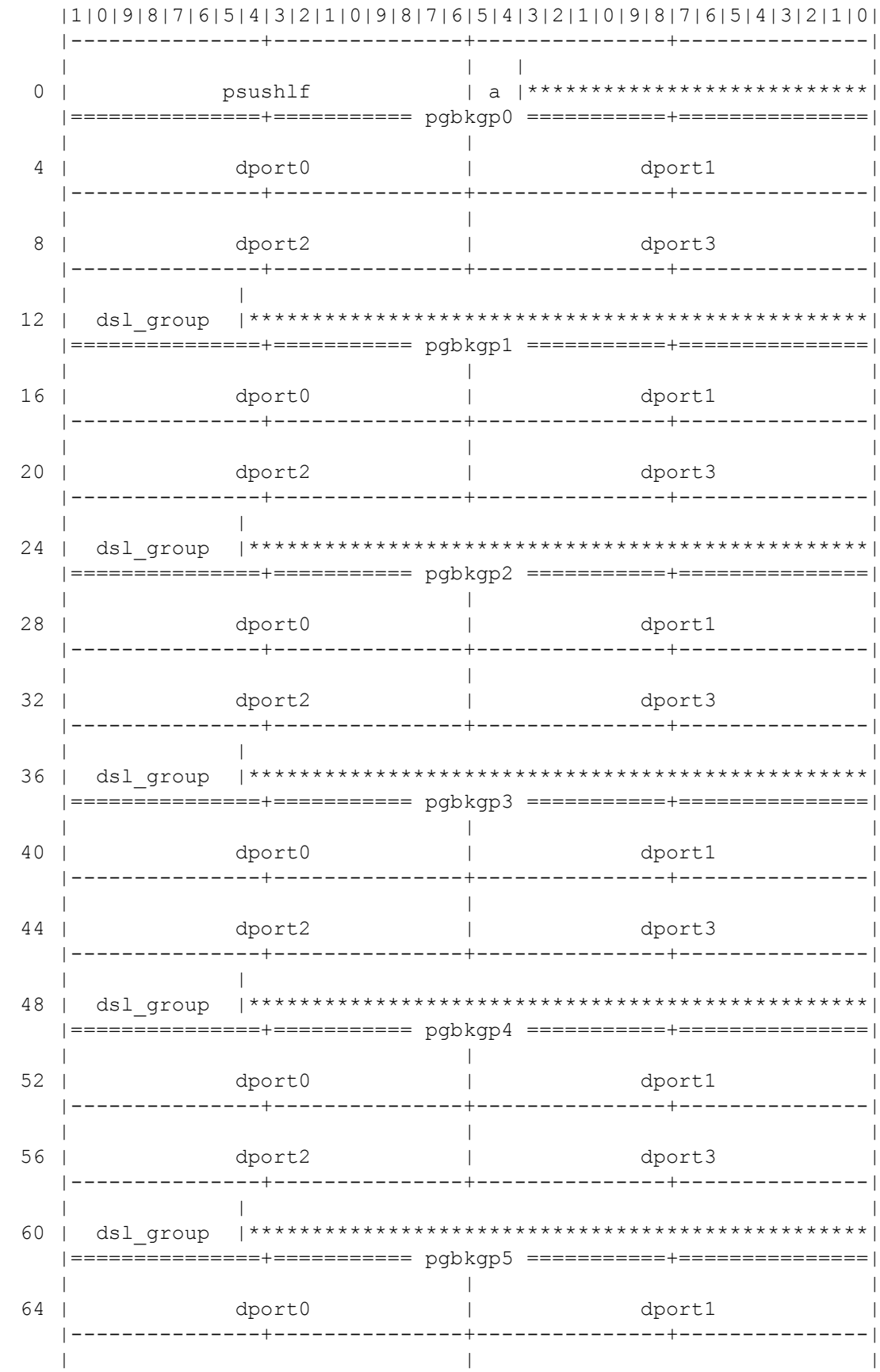


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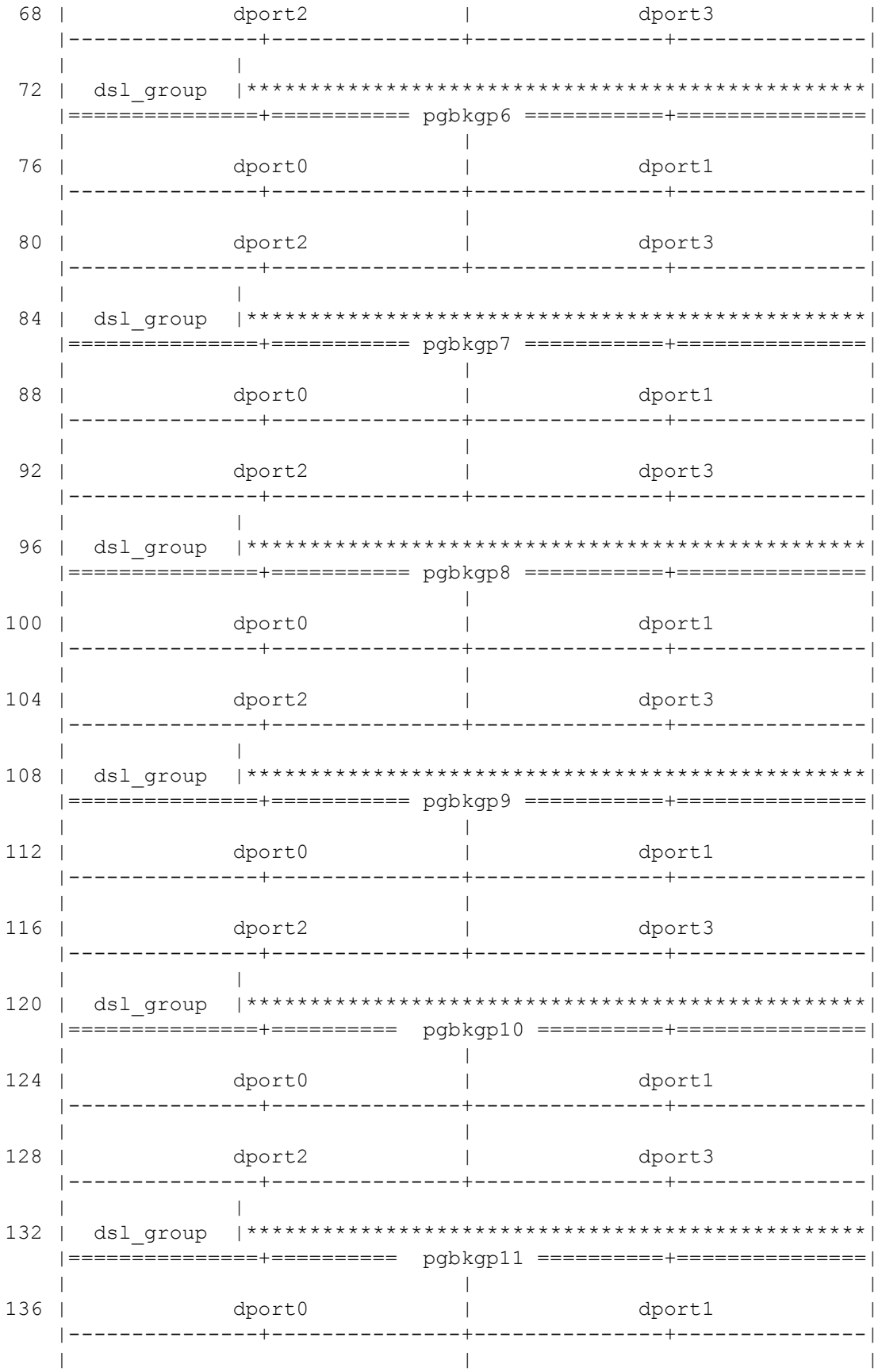


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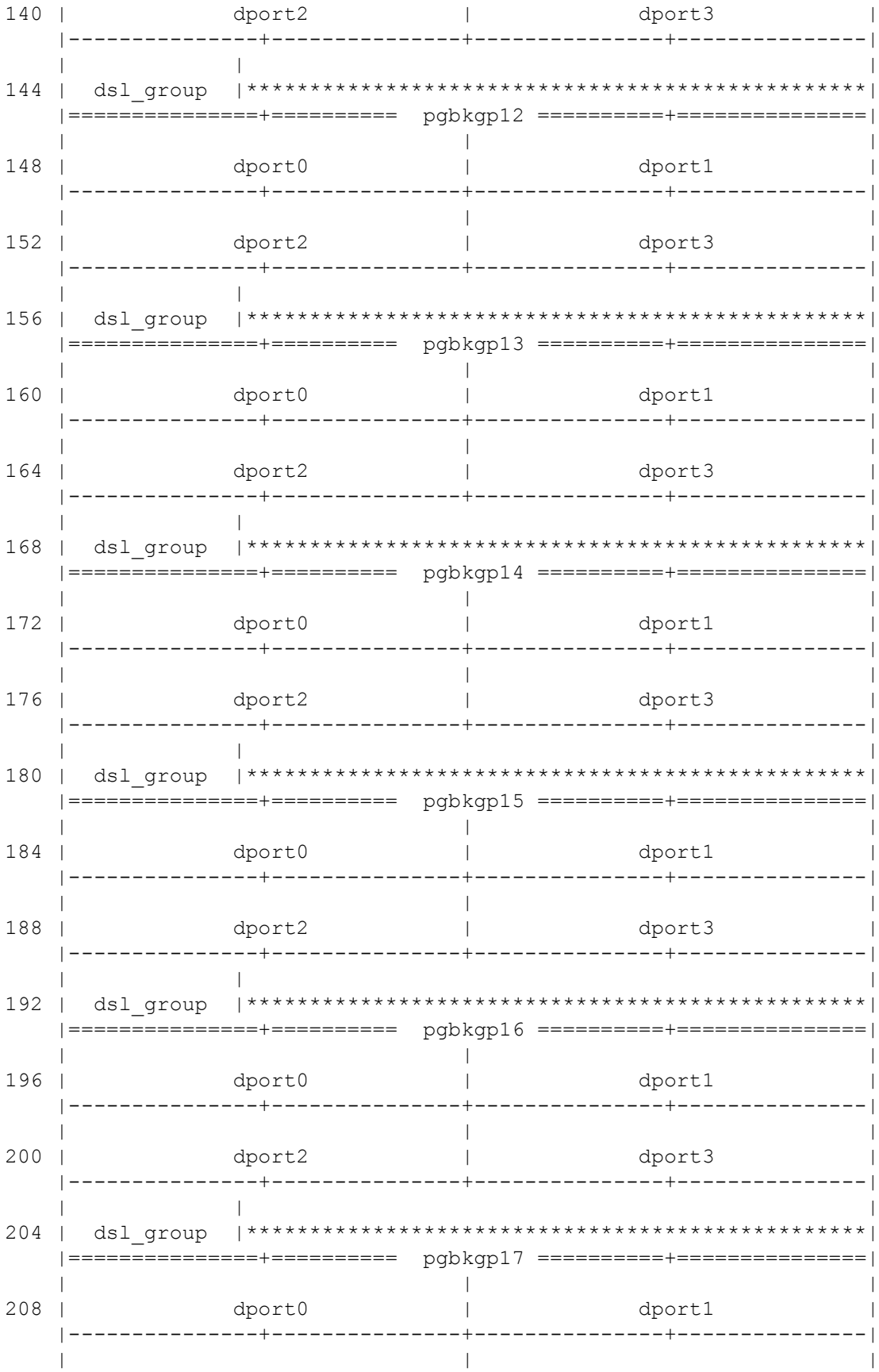


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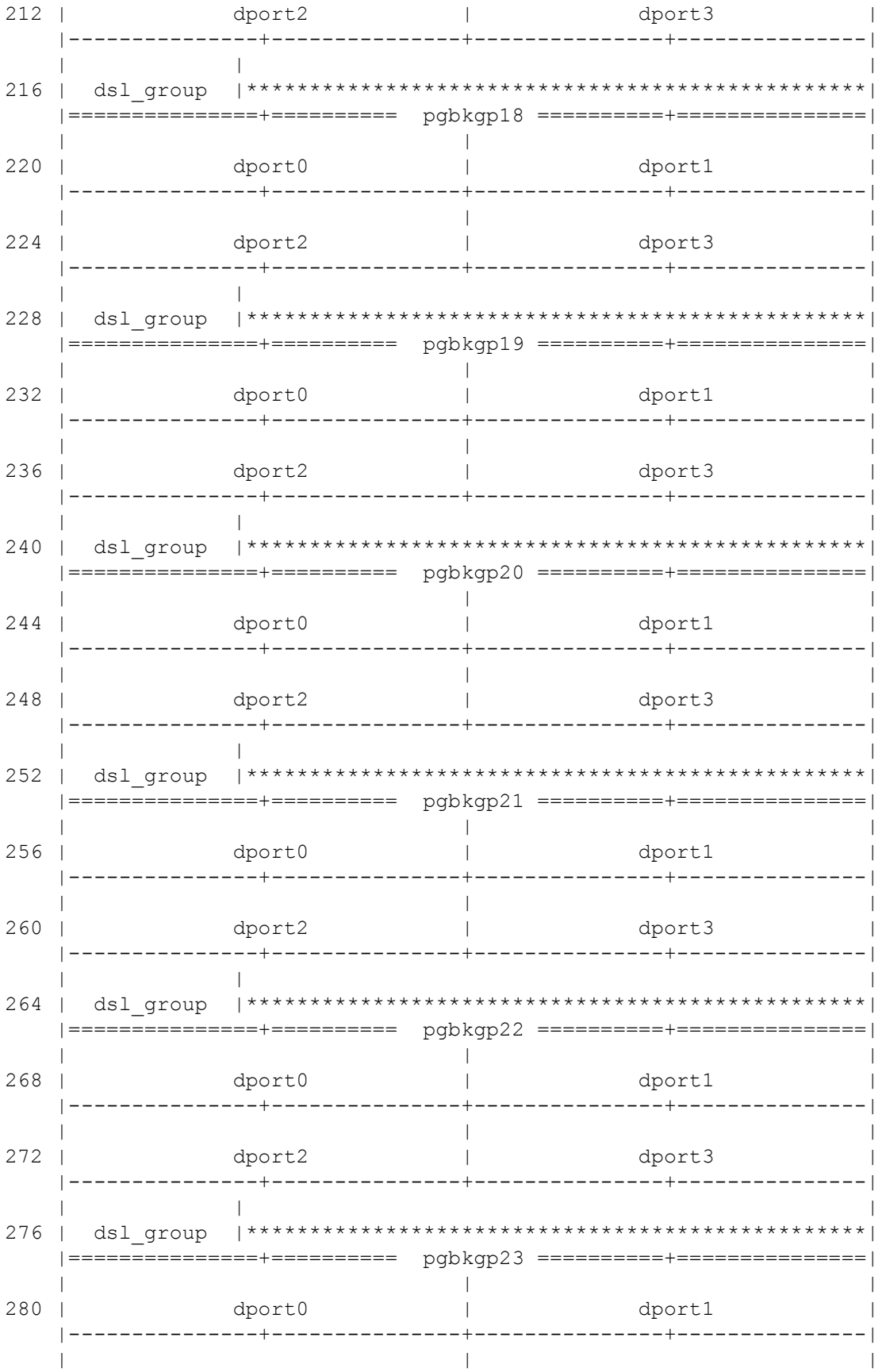


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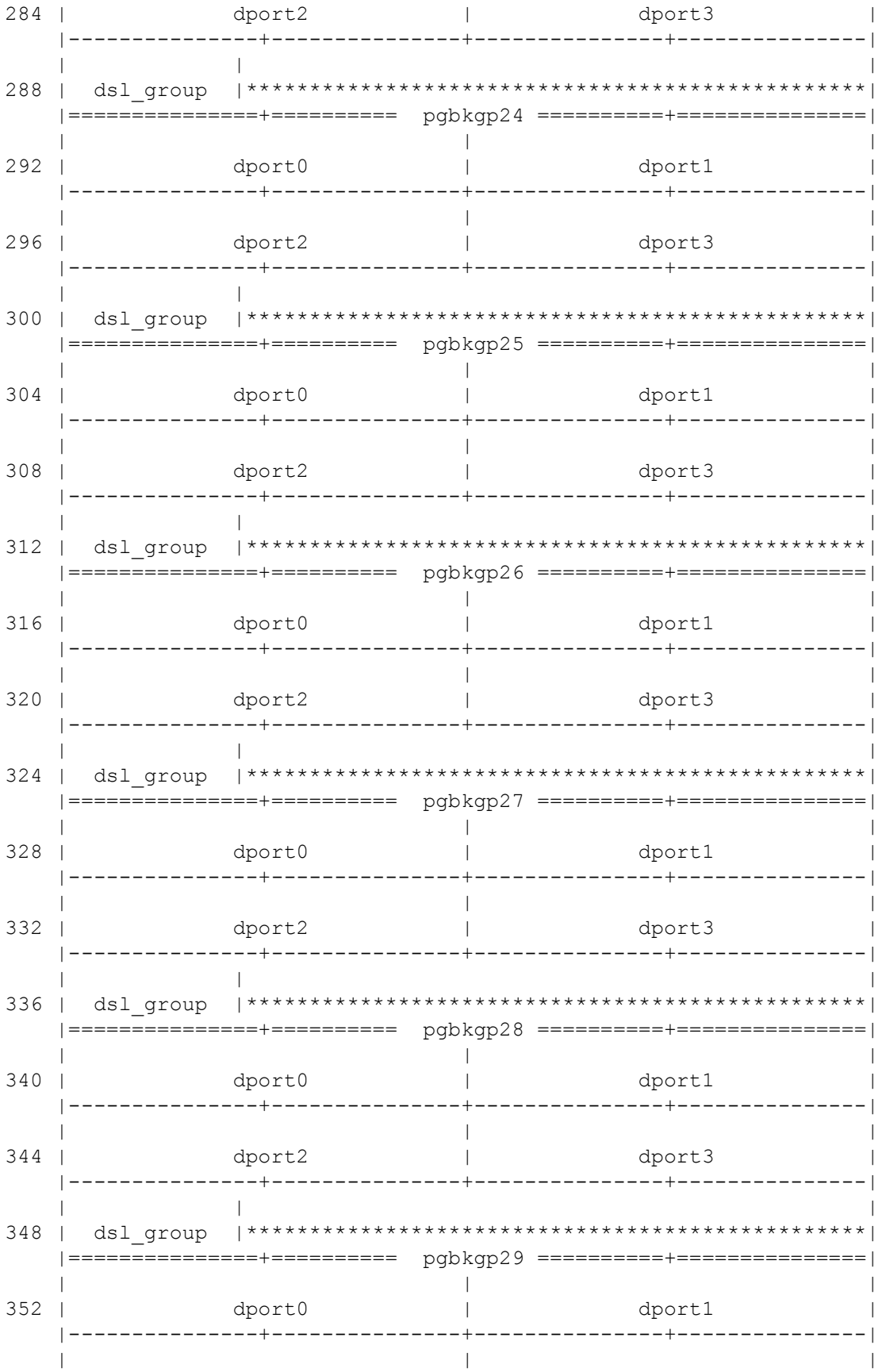
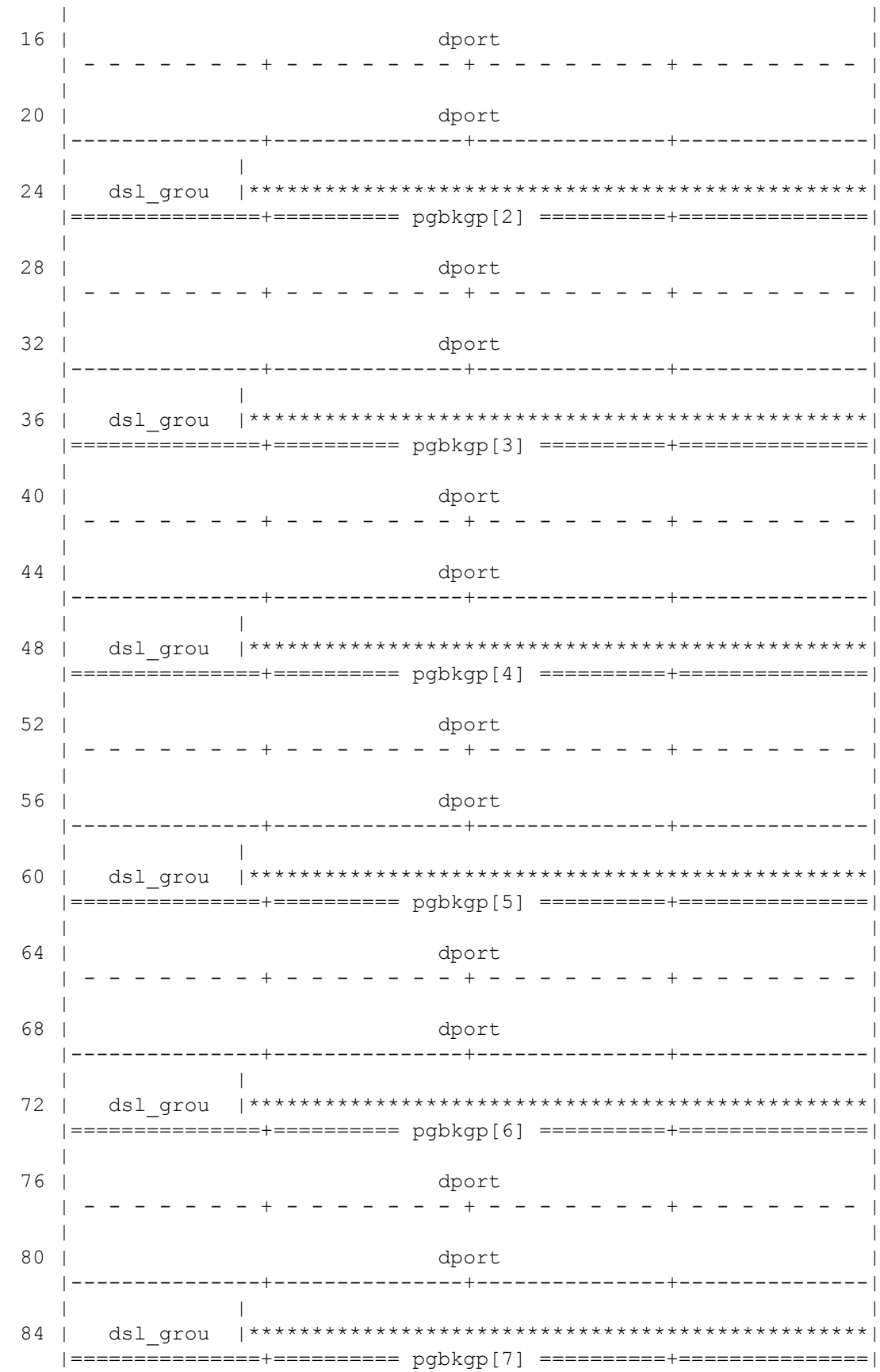

dport2
dport3
dsl_group
pgbkgp24
dport0
dport1
dport2
dport3
dsl_group
pgbkgp25
dport0
dport1
dport2
dport3
dsl_group
pgbkgp26
dport0
dport1
dport2
dport3
dsl_group
pgbkgp27
dport0
dport1
dport2
dport3
dsl_group
pgbkgp28
dport0
dport1
dport2
dport3
dsl_group
pgbkgp29
dport0
dport1

```
356 |             dport2            |             dport3            |
    |---------------+---------------+---------------+---------------|
    |               |                                               |
360 |  dsl_group    |***********************************************|
    |===============+==========  pgbkgp30 ==========+===============|
    |                               |                               |
364 |             dport0            |             dport1            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
368 |             dport2            |             dport3            |
    |---------------+---------------+---------------+---------------|
    |               |                                               |
372 |  dsl_group    |***********************************************|
    |===============+==========  pgbkgp31 ==========+===============|
    |                               |                               |
376 |             dport0            |             dport1            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
380 |             dport2            |             dport3            |
    |---------------+---------------+---------------+---------------|
    |               |                                               |
384 |  dsl_group    |***********************************************|
    |===============+===============+===============+===============|
    |                                                               |
388 |                           whlgpmask                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
392 |                           partgpmask                          |
    |---------------+---------------+---------------+---------------|
      ( 396 bytes )
domain alDGRP_R   struct  (5 sub-attributes)
         psushlf     unsigned short (ushort)
 (a)     log_pidb    .5.fake      (ushort: 2)
         pgbkgp      .6.fake      (array [ 32 ] of .3fake )
             dport       .2.fake      (array [ 4 ] of unsigned short )
             dsl_group   .3.fake      (uchar: 7)
         whlgpmask   unsigned long (ulong)
         partgpmask  unsigned long (ulong)
         Structure Layout      alDGRP_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |   |                           |
  0 |             psushlf           | a |***************************|
    |===============+========== pgbkgp[0] ==========+===============|
    |                                                               |
  4 |                             dport                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             dport                             |
    |---------------+---------------+---------------+---------------|
    |               |                                               |
 12 |   dsl_grou    |***********************************************|
    |===============+========== pgbkgp[1] ==========+===============|
```

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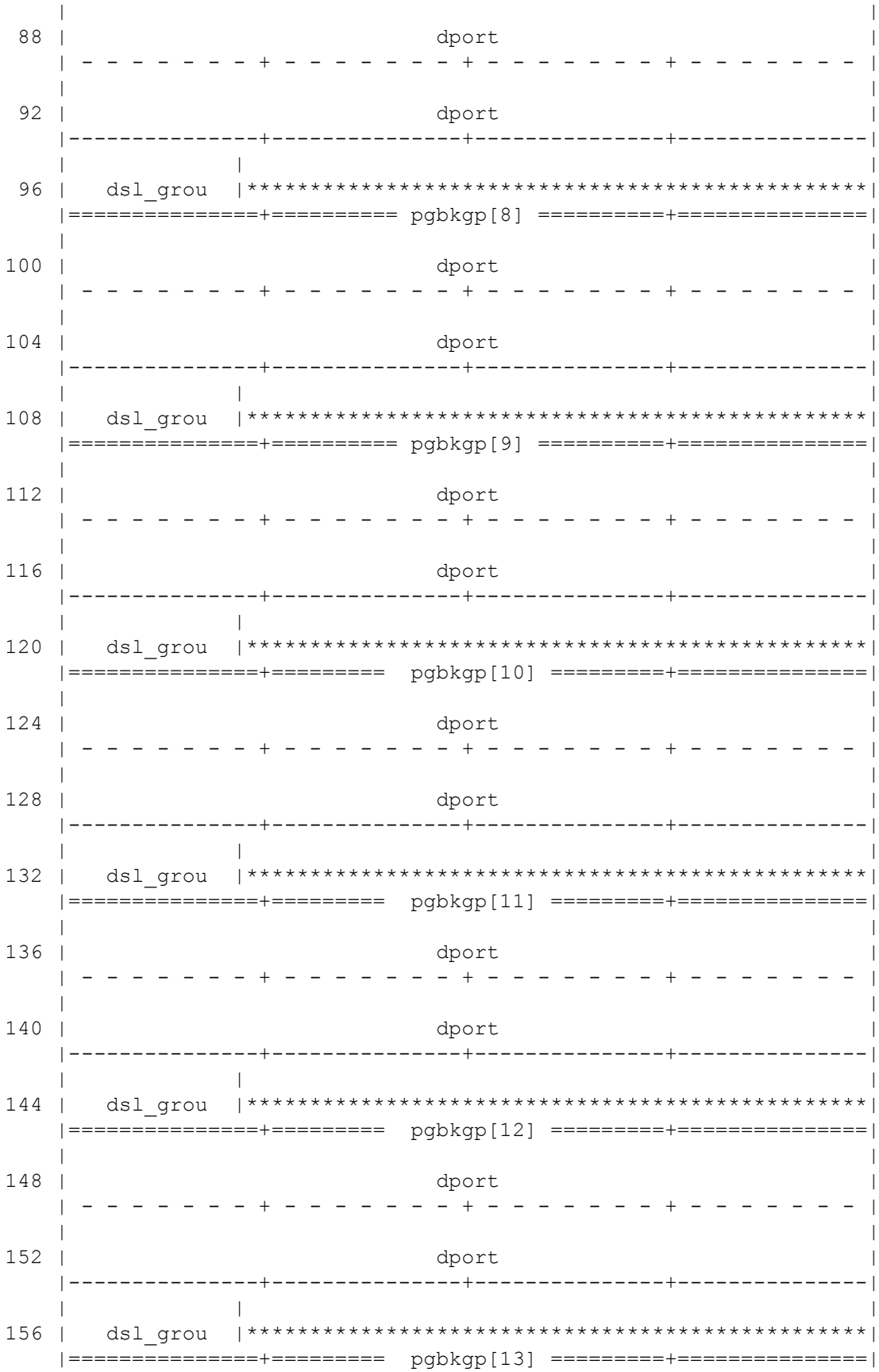


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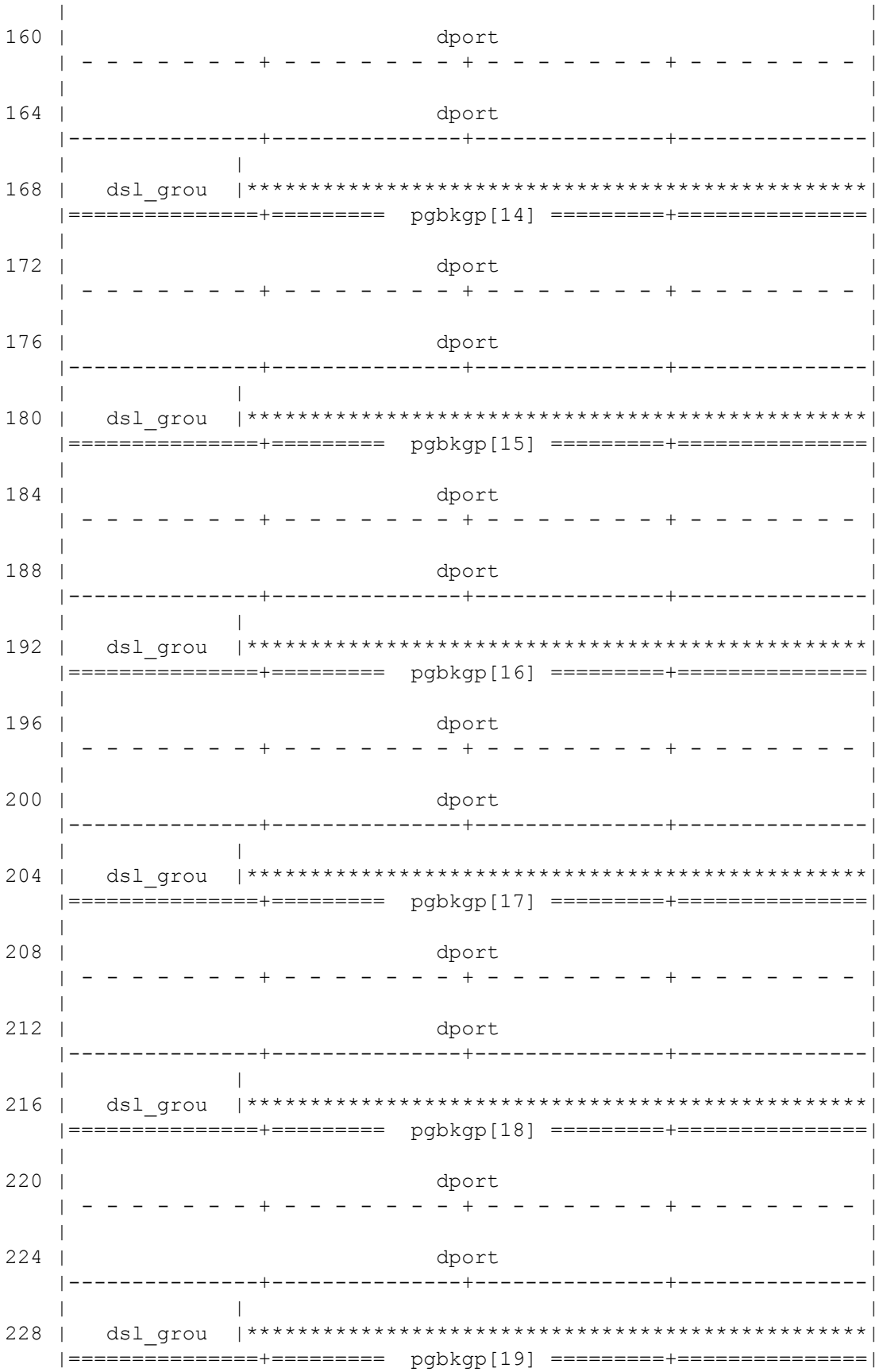


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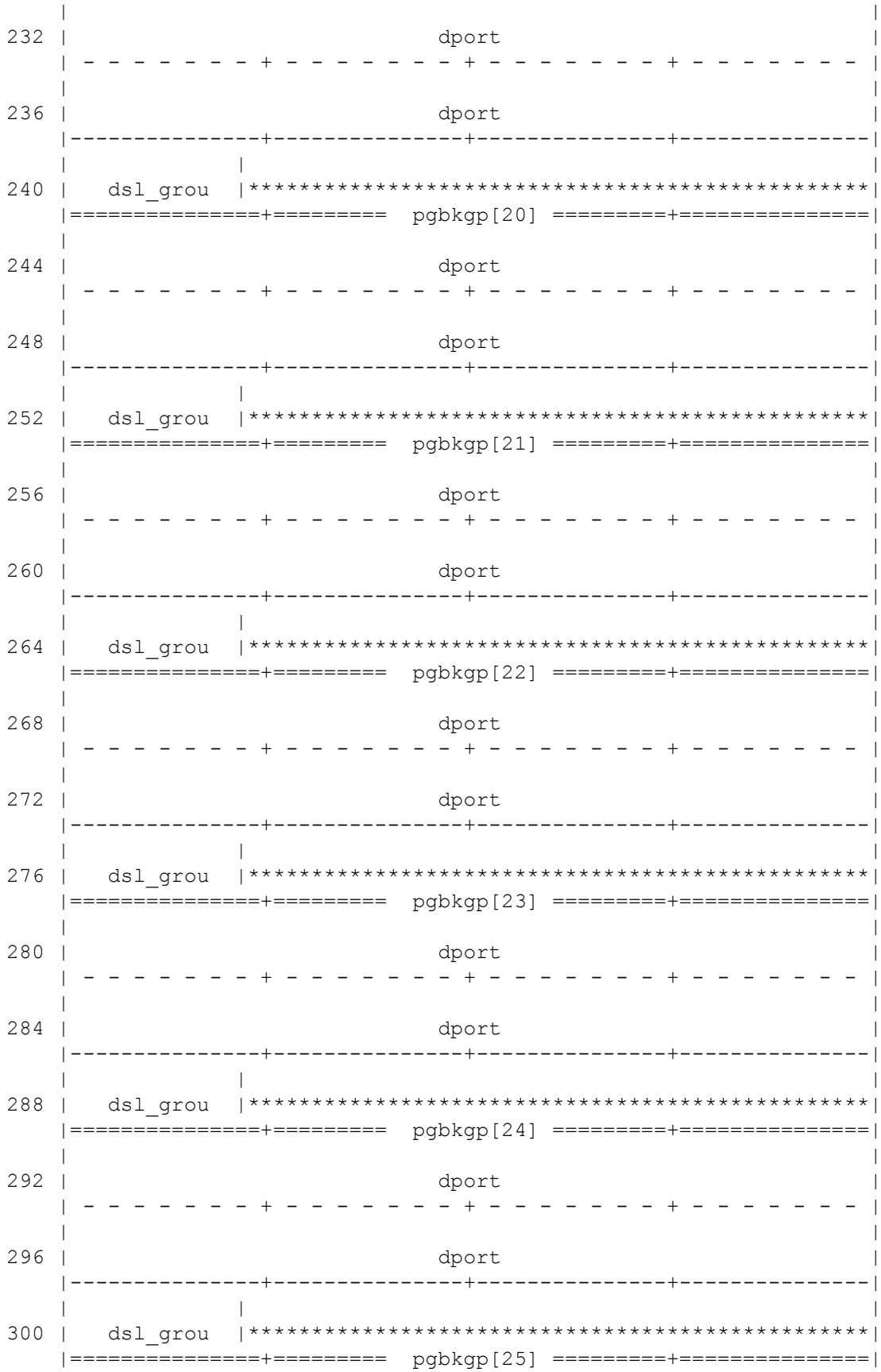


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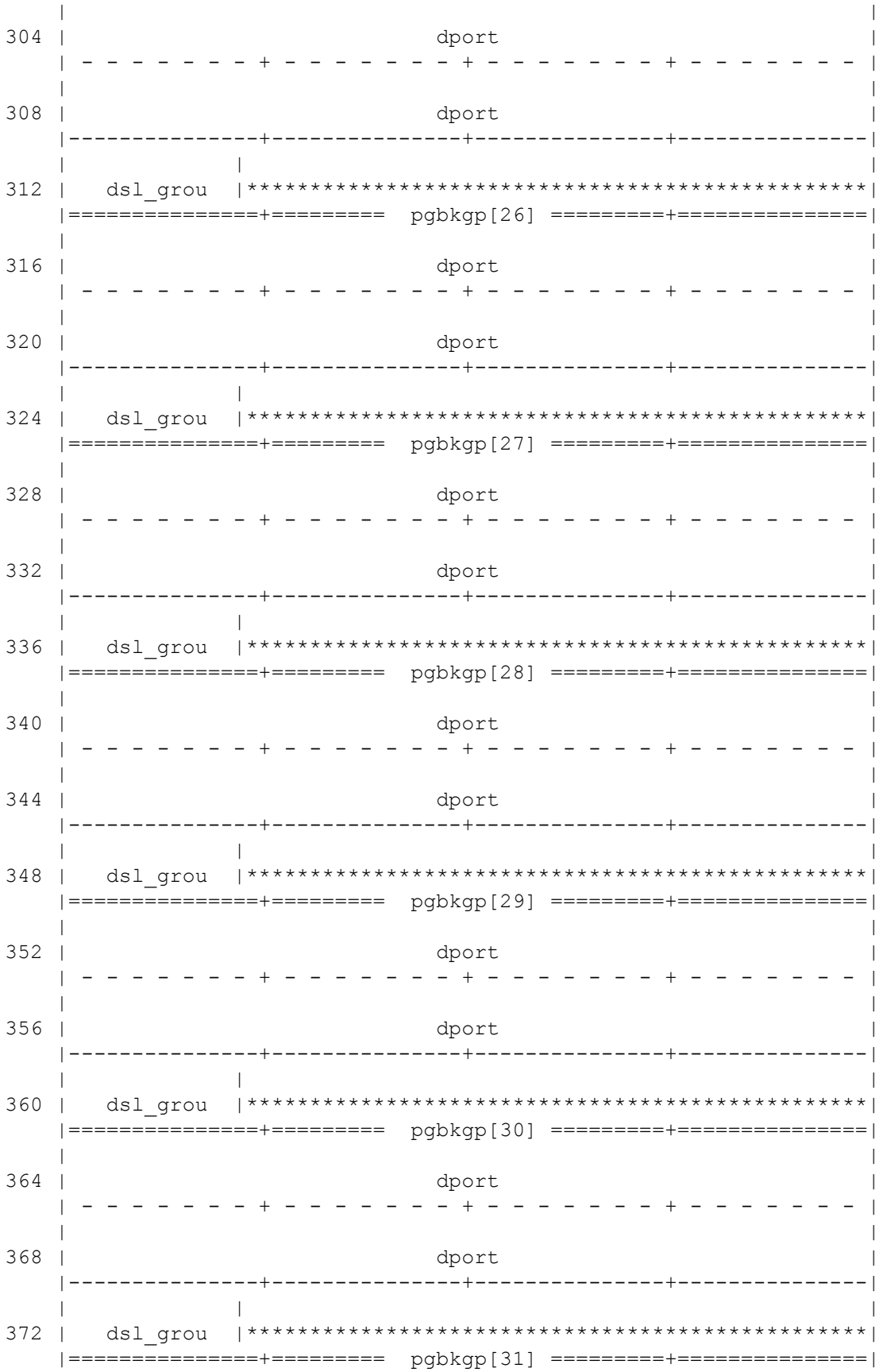


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```
    |                                                                   |
376 |                            dport                                  |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                   |
380 |                            dport                                  |
    |---------------+---------------+---------------+---------------|
    |               |                                                   |
384 |   dsl_grou    |***************************************************|
    |===============+===============+===============+===============|
    |                                                                   |
388 |                           whlgpmas                                |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
392 |                           partgpma                                |
    |---------------+---------------+---------------+---------------|
       ( 396 bytes )
```

## 4. Population Rules for RLdgrp_ri

**Relation Description** Remote integrated services line unit (RISLU)/Remote Access Interface unit (RAIU) D-channel piggy-back group
This relation contains information on the RISLU/RAIU D-channel piggy-back groups on a per packet switch unit (PSU) shelf basis. There are 32 piggy-back groups which are associated with the 32 PIDB time slots. There can be one to four PIDB pairs per PSU shelf. There is no direct relationship between the piggy-back groups and the PIDB time-slots (that is, the piggy-back groups are logical time-slots).

**Attribute: psushlf**

**Fullname:** PSU shelf circuit of type PCSHLFPSIU.

**Attribute Description** Populate with the circuit name of the PSU shelf associated with PSUCOM side0.

**Attribute: log_pidb**

**Fullname:** Logical PIDB number on a PSU shelf.

**Attribute Description** This is just a logical PIDB number ranging 0-3, on a PSU shelf.

**Attribute: pgbkgp[*]**

**Fullname:** Piggy-back groups 0-31

**Attribute Description** Structure containing information on the piggy-back group.

**Attribute: pgbkgp[*].dport[*]**

**Fullname:** RISLU/RAIU D-channel ports zero through three

**Attribute Description** The port names of the RISLU/RAIU D-channels occupying quarter positions zero through three in piggy-back groups 0 through 31.

**Attribute: pgbkgp[*].dsl_group**

**Fullname:** Digital subscriber line (DSL) group

**Attribute Description** The DSL group of the ports assigned to piggy-back group 0 through 31.

**Attribute: whlgpmask**

**Fullname:** Whole piggy-back group mask

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**Attribute Description** A bit mask giving status on whether the piggy-back group is used (1) or empty (0). Bit position 0 (rightmost) gives status on piggy-back group 0, bit position 1 gives status on piggy-back group 1, ..., bit position 31 gives status on piggy-back group 31.

**Attribute: partgpmask**

**Fullname:** Partial piggy-back group mask

**Attribute Description** A bit mask giving status on whether the piggy-back group has room (1) or is full (0). Bit position 0 (rightmost) gives status on piggy-back group 0, bit position 1 gives status on piggy-back group1, ..., bit position 31 gives status on piggy-back group 31.

**Defines:** "db/DMportindx.h"

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# DI_COMP

## 1. Description

This relation maps the destination index from digit analysis and the carrier into a new DI and RI reflecting the carrier information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 500 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
DI_COMP     relid = 67    DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL

     carrid      DMCIC4       (array [ 4 ] of char ) <--- key
     croute_x    DMRTEIDX     (ushort: 14)
 (a) featgrp     DMFEATGRP    (enum: 2) <--- key
     dest_x      DMDESTIDX    (ushort: 12) <--- key
 (b) ffcf1       DMBOOL       (enum: 1)
 (c) ffcf2       DMBOOL       (enum: 1)
 (d) ffcf3       DMBOOL       (enum: 1)
     cdest_x     DMDESTIDX    (ushort: 12)
         User, Compacted and Stored Tuple Layout    DI_COMP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                              carrid                           |
    |---------------+---------------+---------------+---------------|
    |                             |   |                       | | | | |
  4 |           croute_x          | a |         dest_x        |b|c|d|*|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
  8 |        cdest_x        |***************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population rules for RLdi_comp

### Relation Description

```
        Destination index from digit analysis.

        This relation maps the destination index from digit analysis
        and the carrier id from either relation RLfc_carr or RLfc_fgbcarr
        into a new destination index (DI) and route index (RI)
        reflecting carrier information.

        This relation is used for both Feature Group B and
```

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Feature Group D carriers. The carrier type is specified in the new attribute 'featgrp'.

The attribute 'carrid' in this relation, references DMcic4, which is used for both FGB and FGD carriers.

The 'carrid' entered must exist in either the RLfc_carr or RLfc_fgbcarr relation. These two relations contain all the valid carrier identifiers.

The RLfc_carr.carr_tp must NOT be TYPE_PSEUDO when SFID 188 IXE Tandem Calls via 2 Local Access Tandems has not been purchased.

**Attribute:**
dest_x
**Fullname:**
destination index
**Attribute Description:**

1. Consists of the 0ZZ/1NX destination indices. These indices are the destination indices assigned in Rldaprmfnl, RLda_conflct, and RLdaprlfnl when the attribute, 'type_ci_call', assumes the values: FCAVT or FCINC.
2. When the attribute dig_route in RLfc_carr is DBYES, any destination index assigned in RLdaprmfnl, RLdaprlfnl or RLda_conflct when the attribute 'type_ci_call' specifies a call that the IC accepts must be assigned for that carrid in RLdi_comp. Destination indices assigned when 'type_ci_call' is FCNONCI, FCCI_NULL or FCEM_REROUTE should not be assigned in RLdi_comp.

**Attribute:**
carrid
**Fullname:**
Feature Group carrier id
**Attribute Description:**
The carrier identification is a 4 digit character string, where each of the characters can be '0' thru '9'.

NOTE : If for example, carrier = 0288, only 288 needs to be entered.

The carrier identifier must be previously defined in the RLfc_carr relation if this is a Feature Group D carrier, or in RLfc_fgbcarr relation if this is a Feature Group B carrier.

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**Attribute:**
featgrp
**Fullname:**
Feature Group Carrier Type
**Attribute Description:**
Identifies carrier id as Feature Group B (FGB) or Feature Group D (FGD). Set the attribute to FGB_CARR if this is a FGB carrier. Set the attribute to FGD_CARR if this is a FGD carrier.

**Attribute:**
cdest_x
**Fullname:**
carrier destination index
**Attribute Description:**
carrier destination index.

**Attribute:**
croute_x
**Fullname:**
carrier route index
**Attribute Description:**
carrier route index.

**Attribute:**
ffcf1
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

**Attribute:**
ffcf2
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

**Attribute:**
ffcf3
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

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# DIORCCC

## 1. Description

This is the relation DIOR with Commercial Credit Card (CCC) Capability. It will have a distribution of Fixed Group (FG), with grp_type of GPD_OSPS, and a grp_id of 4.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10000 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
DIORCCC     relid = 2927  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL

    hdr_id      DMANNC_ID    (ulong: 17)
 (a) elig       DMBOOL       (enum: 1)
 (b) ospsff1    DMBOOL       (enum: 1)
 (c) ospsff2    DMBOOL       (enum: 1)
 (d) ospsff3    DMBOOL       (enum: 1)
 (e) ospsff4    DMBOOL       (enum: 1)
 (f) ospsff5    DMBOOL       (enum: 1)
 (g) ospsff6    DMBOOL       (enum: 1)
    carrier     DMCHAR       (char) <--- key
    ospsff9     DMUSHORT     (ushort)
    ospsff10    DMUSHORT     (ushort)
    ospsff11    DMUSHORT     (ushort)
    orig_cc     DMCHAR3      (array [ 3 ] of char ) <--- key
    termpt_code  DMCHAR3      (array [ 3 ] of char ) <--- key
    termpt_type  DMCHAR       (char) <--- key
    ospsff8     DMUNS8       (ushort: 8)
 (h) ospsff7    DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout    DIORCCC
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 | | | | | | | |               |
 0 |              hdr_id             |a|b|c|d|e|f|g|    carrier    |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 4 |            ospsff9            |            ospsff10           |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 8 |            ospsff11           |            orig_cc            |
   | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |               |                                               |
12 |    orig_cc    |                 termpt_code                   |
   |---------------+---------------+---------------+---------------|
   |               |               | |                             |
16 |  termpt_type  |    ospsff8    |h|*****************************|
```

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```
|---------------+---------------+---------------+---------------|
   ( 20 bytes )
```

## 4. Population rules for RLdiorccc

### Relation Description

DIOR with Commercial Credit Card (CCC) Capability

RLdiorccc defines DIOR calls eligible for Commercial Credit Card (CCC) billing.

**Attribute:**
orig_cc
**Fullname:**
Originating DIOR country number
**Attribute Description:**
The originating DIOR country number.

**Attribute:**
carrier
**Fullname:**
Originating local access carrier
**Attribute Description:**
The originating local access carrier.

**Attribute:**
termpt_type
**Fullname:**
Terminating point type
**Attribute Description:**
The terminating point type, international or domestic.

**Attribute:**
termpt_code
**Fullname:**
The terminating point code
**Attribute Description:**
The terminating point code.
Terminating point code is one of the following:
- Country code,
- International NPA/NXX,
- Domestic NPA,
- All international terminations, or
- All domestic NPAs.

**Attribute:**
hdr_id

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**Fullname:**
Announcement header ID
**Attribute Description:**
The OSPS announcement header ID.

**Attribute:**
elig
**Fullname:**
CCC eligible
**Attribute Description:**
The DIOR calls eligible for CCC billing.

**Attribute:**
ospsff1
**Fullname:**
Spare1
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff2
**Fullname:**
Spare2
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff3
**Fullname:**
Spare3
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff4
**Fullname:**
Spare4
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff5
**Fullname:**
Spare5
**Attribute Description:**
Spare field for fast feature development.

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**Attribute:**
ospsff6
**Fullname:**
Spare6
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff7
**Fullname:**
Spare7
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff8
**Fullname:**
Spare8
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff9
**Fullname:**
Spare9
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff10
**Fullname:**
Spare10
**Attribute Description:**
Spare field for fast feature development.

**Attribute:**
ospsff11
**Fullname:**
Spare11
**Attribute Description:**
Spare field for fast feature development.

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# DIORCPS

## 1. Description

Relation containing the DIOR country pair screening (DIORCPS) information to determine permissions or restrictions based upon the originating country code and associated carrier.

This relation is to have a distribution of FG (fixed group), with a grp_type of GPD_OSPS, and a grp_id of 3.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
DIORCPS     relid = 2016  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     ctrycode    DMTCSCC      (ushort: 10)      <--- key
     carrier     DMUNS4       (ushort: 4)       <--- key
 (a) oaff1       DMUNS2       (ushort: 2)
 (b) tupnum      DMUNS3       (ushort: 3)       <--- key
     entries     DMUNS7       (ushort: 7)
 (c) comptype    DMWRLDCON    (enum: 3)
     oaff2       DMUNS3       (ushort: 3)
     name00      DMCCRNG      (struct)
         ccode       DMCHAR3      (array [ 3 ] of char )
         spare       DMUNS8       (ushort: 8)
     name01      DMCCRNG      (struct)
         ccode       DMCHAR3      (array [ 3 ] of char )
         spare       DMUNS8       (ushort: 8)
     name02      DMCCRNG      (struct)
         ccode       DMCHAR3      (array [ 3 ] of char )
         spare       DMUNS8       (ushort: 8)
     name03      DMCCRNG      (struct)
         ccode       DMCHAR3      (array [ 3 ] of char )
         spare       DMUNS8       (ushort: 8)
     name04      DMCCRNG      (struct)
         ccode       DMCHAR3      (array [ 3 ] of char )
         spare       DMUNS8       (ushort: 8)
     name05      DMCCRNG      (struct)
         ccode       DMCHAR3      (array [ 3 ] of char )
         spare       DMUNS8       (ushort: 8)
     name06      DMCCRNG      (struct)
         ccode       DMCHAR3      (array [ 3 ] of char )
         spare       DMUNS8       (ushort: 8)
     name07      DMCCRNG      (struct)
         ccode       DMCHAR3      (array [ 3 ] of char )
         spare       DMUNS8       (ushort: 8)
     name08      DMCCRNG      (struct)
         ccode       DMCHAR3      (array [ 3 ] of char )
         spare       DMUNS8       (ushort: 8)
```

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```
    name09      DMCCRNG      (struct)
        ccode       DMCHAR3      (array [ 3 ] of char )
        spare       DMUNS8       (ushort: 8)
    name10      DMCCRNG      (struct)
        ccode       DMCHAR3      (array [ 3 ] of char )
        spare       DMUNS8       (ushort: 8)
    name11      DMCCRNG      (struct)
        ccode       DMCHAR3      (array [ 3 ] of char )
        spare       DMUNS8       (ushort: 8)
    name12      DMCCRNG      (struct)
        ccode       DMCHAR3      (array [ 3 ] of char )
        spare       DMUNS8       (ushort: 8)
    name13      DMCCRNG      (struct)
        ccode       DMCHAR3      (array [ 3 ] of char )
        spare       DMUNS8       (ushort: 8)
    name14      DMCCRNG      (struct)
        ccode       DMCHAR3      (array [ 3 ] of char )
        spare       DMUNS8       (ushort: 8)
    name15      DMCCRNG      (struct)
        ccode       DMCHAR3      (array [ 3 ] of char )
        spare       DMUNS8       (ushort: 8)
    name16      DMCCRNG      (struct)
        ccode       DMCHAR3      (array [ 3 ] of char )
        spare       DMUNS8       (ushort: 8)
    name17      DMCCRNG      (struct)
        ccode       DMCHAR3      (array [ 3 ] of char )
        spare       DMUNS8       (ushort: 8)
    name18      DMCCRNG      (struct)
        ccode       DMCHAR3      (array [ 3 ] of char )
        spare       DMUNS8       (ushort: 8)
    name19      DMCCRNG      (struct)
        ccode       DMCHAR3      (array [ 3 ] of char )
        spare       DMUNS8       (ushort: 8)
        User, Compacted and Stored Tuple Layout    DIORCPS
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                   |       |   |     |             |     |     |
 0 |      ctrycode     |carrier| a |  b  |   entries   |  c  |oaff2|
   |===============+===========  name00 ===========+===============|
   |                                                 |               |
 4 |                      ccode                      |     spare     |
   |===============+===========  name01 ===========+===============|
   |                                                 |               |
 8 |                      ccode                      |     spare     |
   |===============+===========  name02 ===========+===============|
   |                                                 |               |
12 |                      ccode                      |     spare     |
   |===============+===========  name03 ===========+===============|
   |                                                 |               |
16 |                      ccode                      |     spare     |
   |===============+===========  name04 ===========+===============|
   |                                                 |               |
20 |                      ccode                      |     spare     |
```

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```
    |===============+===========  name05 ===========+===============|
    |                                                |               |
 24 |                      ccode                     |     spare     |
    |===============+===========  name06 ===========+===============|
    |                                                |               |
 28 |                      ccode                     |     spare     |
    |===============+===========  name07 ===========+===============|
    |                                                |               |
 32 |                      ccode                     |     spare     |
    |===============+===========  name08 ===========+===============|
    |                                                |               |
 36 |                      ccode                     |     spare     |
    |===============+===========  name09 ===========+===============|
    |                                                |               |
 40 |                      ccode                     |     spare     |
    |===============+===========  name10 ===========+===============|
    |                                                |               |
 44 |                      ccode                     |     spare     |
    |===============+===========  name11 ===========+===============|
    |                                                |               |
 48 |                      ccode                     |     spare     |
    |===============+===========  name12 ===========+===============|
    |                                                |               |
 52 |                      ccode                     |     spare     |
    |===============+===========  name13 ===========+===============|
    |                                                |               |
 56 |                      ccode                     |     spare     |
    |===============+===========  name14 ===========+===============|
    |                                                |               |
 60 |                      ccode                     |     spare     |
    |===============+===========  name15 ===========+===============|
    |                                                |               |
 64 |                      ccode                     |     spare     |
    |===============+===========  name16 ===========+===============|
    |                                                |               |
 68 |                      ccode                     |     spare     |
    |===============+===========  name17 ===========+===============|
    |                                                |               |
 72 |                      ccode                     |     spare     |
    |===============+===========  name18 ===========+===============|
    |                                                |               |
 76 |                      ccode                     |     spare     |
    |===============+===========  name19 ===========+===============|
    |                                                |               |
 80 |                      ccode                     |     spare     |
    |===============+===============+===============+===============|
       ( 84 bytes )
RLdiorcps.G
domain alDIORCP   struct  (8 sub-attributes)
         ctrycode    .8.fake      (ushort: 10)
         carrier     .9.fake      (ushort: 4)
 (a)     oaff1       .10.fake     (ushort: 2)
 (b)     tupnum      .11.fake     (ushort: 3)
         entries     .12.fake     (ushort: 7)
```

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```
(c)     comptype    .0fake       (enum)
        oaff2       .13.fake     (ushort: 3)
        namexx      .14.fake     (array [ 20 ] of .1fake )
            ccode       .0.fake      (array [ 3 ] of char )
            spare       .1.fake      (ushort)
        Structure Layout      alDIORCP
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                   |       |   |     |             |     |     |
 0 |      ctrycode     |carrier| a |  b  |   entries   |  c  |oaff2|
   |===============+========== namexx[0] ==========+===============|
   |                                                |               |
 4 |                      ccode                     |     spare     |
   |===============+========== namexx[1] ==========+===============|
   |                                                |               |
 8 |                      ccode                     |     spare     |
   |===============+========== namexx[2] ==========+===============|
   |                                                |               |
12 |                      ccode                     |     spare     |
   |===============+========== namexx[3] ==========+===============|
   |                                                |               |
16 |                      ccode                     |     spare     |
   |===============+========== namexx[4] ==========+===============|
   |                                                |               |
20 |                      ccode                     |     spare     |
   |===============+========== namexx[5] ==========+===============|
   |                                                |               |
24 |                      ccode                     |     spare     |
   |===============+========== namexx[6] ==========+===============|
   |                                                |               |
28 |                      ccode                     |     spare     |
   |===============+========== namexx[7] ==========+===============|
   |                                                |               |
32 |                      ccode                     |     spare     |
   |===============+========== namexx[8] ==========+===============|
   |                                                |               |
36 |                      ccode                     |     spare     |
   |===============+========== namexx[9] ==========+===============|
   |                                                |               |
40 |                      ccode                     |     spare     |
   |===============+=========  namexx[10] =========+===============|
   |                                                |               |
44 |                      ccode                     |     spare     |
   |===============+=========  namexx[11] =========+===============|
   |                                                |               |
48 |                      ccode                     |     spare     |
   |===============+=========  namexx[12] =========+===============|
   |                                                |               |
52 |                      ccode                     |     spare     |
   |===============+=========  namexx[13] =========+===============|
   |                                                |               |
56 |                      ccode                     |     spare     |
   |===============+=========  namexx[14] =========+===============|
```

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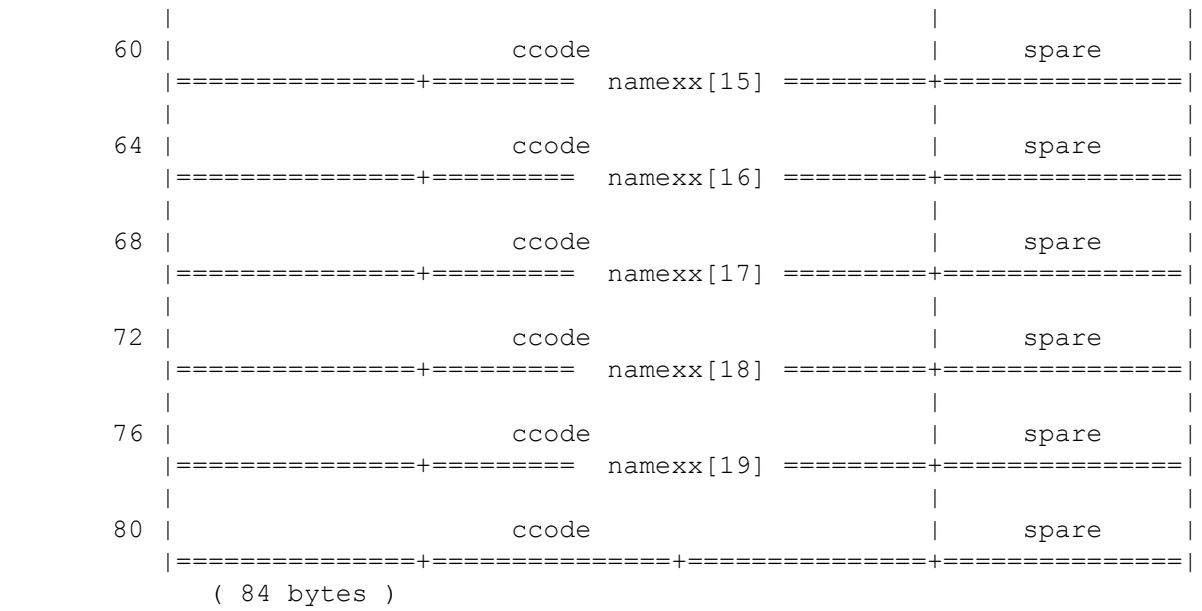


## 4. Population Rules for RLdiorcps

**Relation Description** DIOR Country Pair Screening.

Relation containing the DIOR country pair screening (DIORCPS) information to determine permissions or restrictions based upon the originating country code and associated carrier.

**Attribute: ctrycode**

**Fullname:** Country Code.

**Attribute Description** Identifies the country code of an originating DIOR carrier, or the terminating country code of a DIOR country to country call. Whether the country code is an originating or terminating country code will depend on the value in the field carrier.

**Attribute: carrier**

**Fullname:** Carrier.

**Attribute Description** Carrier associated with originating country code, which identifies the carrier from which the DIOR call originates. The originating carrier is a one-digit code in the range from 0 to 9. A terminating country code has no associated carrier. A value of 10 indicates that the country code identified in the ctrycode field is a terminating country code.

**Attribute: oaff1**

**Fullname:** OA fast feature spare 1

**Attribute Description** Spare.

**Attribute: tupnum**

**Fullname:** tuple number

**Attribute Description** Used to distinguish multiple tuples for the same country code and carrier pair.

**Attribute: entries**

**Fullname:** number of entries.

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**Attribute Description** number of entries in the namexx arrays (all tuples with ctrycode and carrier as the primary key)

**Attribute: comptype**

**Fullname:** completion type

**Attribute Description** Specifies the completion type, permitted or restricted, for this country code and carrier pair.

**Attribute: oaff2**

**Fullname:** OA fast feature spare 2

**Attribute Description** Spare.

**Attribute: name[*]**

**Fullname:** name

**Attribute Description** Array of permitted or restricted country codes and/or country names.

**Attribute: name[*].ccode**

**Fullname:** country code

**Attribute Description** Identifies the country code or country name associated with the originating country code and carrier.

**Attribute: name[*].spare**

**Fullname:** spare

**Attribute Description** Spare value used to align the data on word boundary. For terminating tuples (carrier == 10), bits 0-3 of this attribute are used to store the carrier corresponding to the country code in the ccode attribute.

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# DIORSD

## 1. Description

DIOR speed dialing table. This relation associates a DIOR speed dialing code to a full directory number. Therefore, DIOR call processing may use the DIOR speed dialing code to determine a forward number, which is subsequently outpulsed.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |

## 3. Field Layout

```
DIORSD      relid = 2049  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     spare5      DMUNS16      (ushort)
     speedcode   DMUNS10      (ushort: 10)      <--- key
 (a) spare4      DMUNS2       (ushort: 2)
 (b) intl        DMBOOL       (enum: 1)
 (c) spare1      DMBOOL       (enum: 1)
 (d) spare2      DMBOOL       (enum: 1)
 (e) spare3      DMBOOL       (enum: 1)
     dn          DMDN15       (struct)  <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
            User Tuple Layout    DIORSD
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                   |   | | | | |
  0 |              spare5           |     speedcode     | a |b|c|d|e|
    |===============+=============  dn =============+===============|
    |       |       |                                               |
  4 | digcnt|*******|                       dn                      |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                               dn                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                               dn                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                               dn                              |
    |===============+===============+===============+===============|
       ( 20 bytes )
     spare5      DMUNS16      (ushort)
     speedcode   DMUNS10      (ushort: 10)      <--- key
 (a) spare4      DMUNS2       (ushort: 2)
 (b) intl        DMBOOL       (enum: 1)
```

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```
(c) spare1      DMBOOL       (enum: 1)
(d) spare2      DMBOOL       (enum: 1)
(e) spare3      DMBOOL       (enum: 1)
    dn          DMCDN15      (struct)  <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
        dig8        DMUNS4       (ushort: 4)
        dig9        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
         Compacted Tuple Layout     DIORSD
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                   |   | | | | |
 0 |             spare5            |     speedcode     | a |b|c|d|e|
   |===============+=============  dn =============+===============|
   |       |       |       |       |       |       |       |       |
 4 | digcnt|  dig1 |  dig2 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 8 |  dig8 |  dig9 | dig10 | dig11 | dig12 | dig13 | dig14 | dig15 |
   |===============+===============+===============+===============|
   |                                                               |
12 |***************************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
16 |***************************************************************|
   |---------------+---------------+---------------+---------------|
      ( 20 bytes )
    spare5      DMUNS16      (ushort)
    speedcode   DMUNS10      (ushort: 10)      <--- key
(a) spare4      DMUNS2       (ushort: 2)
(b) intl        DMBOOL       (enum: 1)
(c) spare1      DMBOOL       (enum: 1)
(d) spare2      DMBOOL       (enum: 1)
(e) spare3      DMBOOL       (enum: 1)
    dn          DMCDN15      (struct)  <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
```

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```
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
        dig8        DMUNS4       (ushort: 4)
        dig9        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
          Stored Tuple Layout   DIORSD
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                   |   | | | | |
 0 |             spare5            |     speedcode     | a |b|c|d|e|
   |===============+=============  dn =============+===============|
   |       |       |       |       |       |       |       |       |
 4 | digcnt|  dig1 |  dig2 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 8 |  dig8 |  dig9 | dig10 | dig11 | dig12 | dig13 | dig14 | dig15 |
   |===============+===============+===============+===============|
      ( 12 bytes )
```

## 4. Population Rules for RLdiorsd

**Relation Description** RLdiorsd - DIOR Speed Dialing Table.

This relation associates a speed code with a forward number.

Call processing may use the speed code entered by the customer to determine the full forward number.

Tuples of this relation record information related to OSPS DIOR speed dialing.

**Attribute: speedcode**

**Fullname:** DIORSD - Speed dial code

**Attribute Description** Contains DIOR speed dial codes. Any value from 1-999.

**Attribute: dn**

**Fullname:** DIORSD - directory number

**Attribute Description** Contains the digit count and 15 digit forward number, in bcd.

**Attribute: dn.digcnt**

**Fullname:** Digit Count

**Attribute Description** Contains the number of digits in the forard number.

**Attribute: dn.dn**

**Fullname:** DIORSD - directory number

**Attribute Description** Contains the full 15 digit forward number.

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**Attribute: intl**

**Fullname:** DIORSD - International Indicator

**Attribute Description** Indicates the forward number is an international number.

**Attribute: spare1**

**Fullname:** first spare attribute

**Attribute Description** Unknown.

**Attribute: spare2**

**Fullname:** second spare attribute

**Attribute Description** Unknown.

**Attribute: spare3**

**Fullname:** third spare attribute

**Attribute Description** Unknown.

**Attribute: spare4**

**Fullname:** fourth spare field

**Attribute Description** Unknown.

**Attribute: spare5**

**Fullname:** fifth spare field

**Attribute Description** Unknown.

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# DIORSO

## 1. Description

DIOR special offers.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
DIORSO      relid = 2198  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     offer        DMUNS8        (ushort: 8)  <--- key
     origcc       DMCHAR3       (array [ 3 ] of char )  <--- key
     carrier      DMUNS4        (ushort: 4)  <--- key
 (a) oaff1        DMBOOL        (enum: 1)
 (b) oaff2        DMBOOL        (enum: 1)
 (c) oaff3        DMBOOL        (enum: 1)
 (d) oaff4        DMBOOL        (enum: 1)
     oaff5        DMCHAR        (char)
     oaff6        DMUSHORT      (ushort)
     begindate    DMCTXT8       (array [ 8 ] of char )
     enddate      DMCTXT8       (array [ 8 ] of char )
         User, Compacted and Stored Tuple Layout DIORSO
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |     offer     |                    origcc                     |
    |---------------+---------------+---------------+---------------|
    |       | | | | |               |                               |
  4 |carrier|a|b|c|d|     oaff5     |             oaff6             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                           begindate                           |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 12 |                           begindate                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                            enddate                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 20 |                            enddate                            |
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population Rules for RLdiorso

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**Relation Description** RLdiorso is a spare relation for future OSPS DIOR features.

**Attribute: offer**

**Fullname:** Offer number.

**Attribute Description** Number identifying a specific DIOR special offer.

**Attribute: origcc**

**Fullname:** Originating Country Code.

**Attribute Description** DIOR Originating Country Code.

**Attribute: carrier**

**Fullname:** Originating Carrier.

**Attribute Description** DIOR Originating Carrier. A value of 10 means all carriers.

**Attribute: oaff1**

**Fullname:** boolean spare.

**Attribute Description** Unused.

**Attribute: oaff2**

**Fullname:** boolean spare.

**Attribute Description** Unused.

**Attribute: oaff3**

**Fullname:** boolean spare.

**Attribute Description** Unused.

**Attribute: oaff4**

**Fullname:** boolean spare.

**Attribute Description** Unused.

**Attribute: oaff5**

**Fullname:** char spare.

**Attribute Description** Unused.

**Attribute: oaff6**

**Fullname:** ushort spare.

**Attribute Description** Unused.

**Attribute: begindate**

**Fullname:** Beginning date of the special offer.

**Attribute Description** Beginning date of the special offer stored as YYYYMMDD in characters.

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**Attribute: enddate**

**Fullname:** Ending date of the special offer.

**Attribute Description** Ending date of the special offer stored as YYYYMMDD in characters.

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# DISP_CF

## 1. Description

ISDN Display Features constructed feature options - used in SM. These constructed features can be to analog and ISDN terminals.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| expected number of tuples | 6 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
DISP_CF     relid = 376   DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     feat_id      DMMCC_FID     (ushort)  <--- key
     actvn        DMMC_ACTYP    (enum: 3)
 (a) dctvn        DMMC_DCTYP    (enum: 2)
 (b) dn_priv      DMBOOL        (enum: 1)
 (c) inspect      DMBOOL        (enum: 1)
 (d) time_date    DMBOOL        (enum: 1)
 (e) ama_rec      DMBOOL        (enum: 1)
 (f) insp_ama     DMBOOL        (enum: 1)
         User, Compacted and Stored Tuple Layout    DISP_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |     |   | | | | | |           |
  0 |            feat_id             |actvn| a |b|c|d|e|f|***********|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLdisp_cf

**Relation Description** display constructed feature
ISDN Display Features constructed feature options - used in SM These constructed features can be to analog and ISDN terminals.

**Attribute: feat_id**

**Fullname:** feature id

**Attribute Description** A BRCS constructed feature id consisting of a modular feature type and a unique identifier. For a Display constructed feature, the modular feature type is MFDISP which is an enumeration of type DMMFTYPE. The unique identifier ranges from 1 to 1023. The feature id must have a class of FACBRCS and a subclass of SCL_FEAT.

```
Dependencies:
    RLfacname must have a tuple such that:
          RLfacname.facid = feat_id
          RLfacname.class = FACBRCS
          RLfacname.subclass = SCL_FEAT
```

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**Attribute: actvn**

**Fullname:** activation method

**Attribute Description** Method of feature activation. This is an enumeration of type DMMC_ACTYP. These features are always active (customer cannot activate via a dialed code or feature button) for 5E4(2) so that actvn always has the value ACTNONE. Future generics may allow these features to be activated or deactivated

**Attribute: dctvn**

**Fullname:** deactivation method

**Attribute Description** Method of feature deactivation. This is an enumeration of type DMMC_DCTYP. These features are always active (customer cannot deactivate via a dialed code or feature button) for 5E4(2) so that dctvn always has the value DCTNONE. Future generics may allow these features to be activated or deactivated via

**Attribute: dn_priv**

**Fullname:** per-call DN privacy

**Attribute Description** Boolean value indicating whether the per-call privacy on a feature is allowed. Per-call privacy allows the calling party to control its privacy status for displaying the calling DN and calling name at the terminating party on a per-call basis.

The dial code actions are:

```
ACN_DNPUSE - toggle Per-Call DN privacy
ACN_CNPUSE - toggle Per-Call Name privacy
ACN_NNPRV  - Force name and number private
ACN_NNPUB  - Force name and number public
```

Per-call privacy is assigned on a per terminal basis for analog terminals (class of service = FC_INDVDL or FC_ATTENDANT or FC_4WIRE_INDV) or ISDN terminals (class of service = FC_ISDN or FC_ISATND).

For the Calling Number Delivery feature, all-call DN privacy is specified in RLfc_line for non-ISDN terminal, and in RLis_term for ISDN terminals. (RLfc_line.privacy = DBYES for analog terminals or RLis_term.privacy = DBYES for ISDN terminals with multiple call appearance - RLfc_line.mca = DBYES), The per-call privacy option can turn off DN privacy for the call by assigning the feature button or access code with an action of ACN_DNPUSE. If the terminal has no-call privacy (RLfc_line.privacy = DBNO or RLis_term.privacy = DBNO for MCA terminals, RLfc_line.mca = DBYES), then the per-call privacy option can turn on DN privacy for the call by assigning the feature button or access code with an action of ACN_DNPUSE. The DN privacy can be forced private by assigning the access code an action of ACN_NNPRV and can be forced public by assigning the access code an action of ACN_NNPUB.

For the Calling Name Delivery feature, there is no all-call Name privacy specified. The privacy status is stored in a Name Database external to the *5ESS*®-2000 switch. The per-call privacy option can toggle NAME privacy for the call by assigning the access code an action of ACN_CNPUSE. The NAME privacy can be forced private by assigning the access code with action ACN_NNPRV and can be forced public by assigning the access code with action ACN_NNPUB.

Dependencies:

If a dialed code is assigned to this display option, then for that dialed code:

```
Rldaprlfnl.action = {ACN_DNPUSE,ACN_CNPUSE,ACN_NNPRV,ACN_NNPUB}
Rlidp_dtre.action = {ACN_DNPUSE,ACN_CNPUSE,ACN_NNPRV,ACN_NNPUB}
Rlidp_cnfl.action = {ACN_DNPUSE,ACN_CNPUSE,ACN_NNPRV,ACN_NNPUB}
```

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**Attribute: inspect**

**Fullname:** inspect

**Attribute Description** Boolean value indicating that the inspect display is allowed. The inspect option allows the user to display the call information associated with a call appearance without answering the call. The data displayed consists of the call appearance identifier, the calling or called DN, the ISDN call identifier, and the originating permissions (if the terminal using the Inspect feature is an attendant console). This feature may be used as an off-hook or on-hook feature. The Inspect option is only allowed to be assigned to a terminal with a class of service of FC_ISDN (must be an MCA terminal, type A, B, C, or D) or FC_ISATND and allows all call appearances on the terminal to be inspected.

Dependencies: If a dialed code is assigned to this display option, then for that dialed code:

```
RLdaprlfnl.action = ACN_INSUSE
RLidp_dtre.action = ACN_INSUSE
RLidp_cnfl.action = ACN_INSUSE
```

**Attribute: time_date**

**Fullname:** time and date

**Attribute Description** Boolean value indicating that the time and date display is allowed. If this option is selected, the time and date will be displayed to the user when the time and date button is pressed. This option is only allowed to be assigned to terminals with a class of service of FC_ISDN (must be an MCA terminal, type A, B, C, or D) or FC_ISATND.

**Attribute: ama_rec**

**Fullname:** billing type

**Attribute Description** Type of billing to be performed. This is an enumeration of type DMBOOL. The billing can be done on a flat rate or usage sensitive basis according to how the subscribing user prefers to be billed or how the Service Provider decides it will bill if the feature is universally available. If ama_rec is set to DBYES, then the type of billing to be performed will be usage sensitive whereas if it is set to DBNO, billing be done a flat rate basis.

**Attribute: insp_ama**

**Fullname:** billing type for Inspect

**Attribute Description** Type of billing to be performed for the Inspect feature. This is an enumeration of type DMBOOL. The billing can be done on a flat rate or usage sensitive basis according to how the subscribing user prefers to be billed. If insp_ama is set to DBYES, then the type of billing to be performed will be usage sensitive Inspect, whereas if it is set to DBNO, billing be done a flat rate basis. This usage sensitive Inspect billing is for National ISDN only.

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# DLDSL

## 1. Description

Relation containing information about "data link" ISDN Digital Subscriber Lines (DSLs). Switch personnel are informed of data link DSL status through MCC displays and alarmed output messages. These features are available only for data link DSLs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 378 |
| expected number of tuples | 6 |
| density | 25 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFP |
| application | ACDQ |
| relation type | DBSTATIC |

## 3. Field Layout

```
DLDSL       relid = 748   DBSTATIC   DBACC_HASH  DBPRAM    LPFP    ACDQ
     gdport      DMGPORT      (struct)    <--- key
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     xnamrl      DMXNAMRL     (ushort: 13)
     xnamid      DMXNAMID     (ushort: 11)
 (a) sm_rel_lnk  DMUNS4       (ushort: 4)
     servclass   DMSERVCLASS  (enum)
         User, Compacted and Stored Tuple Layout  DLDSL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+===========  gdport ===========+===============|
    |                               |               |               |
  0 |              member           |***************|     module    |
    |===============+===============+===============+===============|
    |                           |     |                       |       | |
  4 |           xnamrl          |*****|        xnamid         |   a   |*|
    |---------------+---------------+---------------+---------------|
    |               |                                                 |
  8 |   servclass   |*************************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population rules for RLdldsl

### Relation Description

```
        Data Link ISDN Digital Subscriber Lines

        The dldsl Relation contains information about OSPS data link ISDN
        Digital Subscriber Lines (DSLs).  Switch personnel are informed
        of data link DSL status through MCC displays and alarmed
        output messages.  These features are available only for
        data link DSLs.
```

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Each tuple in this relation represents a data link OSPS ISDN Digital Subscriber Line (DSL). Switch personnel are alerted to problems involving data link DSLs by means of MCC display pages and alarmed tty output messages.
Data link DSLs are defined as DSLs for Directory Assistance System Computer (DAS/C) links, RISLU site Remote Alarm Section (RAS) links,
Commercial ACD Management Information System (MIS) links,
External Database (XDB) links,
External Information System (EIS) links,
OSPS Administrative Processor (OAP) links,
Hotel Billing Information System (HOBIS) links, Hotel Billing Information Center (HOBIC) links, and Real-Time Rating System (RTRS) as data link DSLs.

The LP will have a RLDLDSL tuple for every data link DSL on the 5ESS(R)-2000 switch. Each SM will have only the RLDLDSL tuples for data link DSLs that it terminates.

| Service Class | External Id Keyword | xnamid | xnamrl | sm-rel-lnk |
|---|---|---|---|---|
| FC_DASC | DASC | 1-999 | 0-99 | 0 |
| HM_RAS | RAS | 500-999 | 0-1 | 0 |
| FC_RTRS | RTRS | 1-999 | 0-99 | 0 |
| FC_HOBIS | HOBIS | 1-999 | 0-99 | 0 |
| FC_HOTVT | HOBICV | 1-999 | 0-99 | 0 |
| FC_HOTRT | HOBICR | 1-999 | 0-99 | 0 |
| OA_AQDSL | AQ | 1-1 | 0-15 | 0 |
| TM_XDB | XDB | 1-AVMLHGRPS() | 1-2015 | 0 |
| AS_TCPIP | TCPIP | 1-999 | 0-99 | 0 |
| OA_MIS_LNK | MISLNK | 1-999 | 0-2 | 0 |
| FC_EIS_LNK | EIS | 1-16 | 0-999 | 0-15 |
| AS_OAP | OAPO | 1-32 | 0 | 0 |
| AS_OAP | OAPF | 1-8 | 1 | 0 |
| OA_TAOPER | TAOPER | 1-999 | 1-99 | 0 |

| Service Class | Channel | Max Ports | Global Parm. Dependencies |
|---|---|---|---|
| FC_DASC | D | 2 | Gldascdls |
| HM_RAS | D | 16 | Glrasdls |
| FC_RTRS | D | 2 | Glrtrsdls, Glrtrssm |
| FC_HOBIS | D | 8 | Glhbsdls, Glacqssm, Glhobisc |
| FC_HOTVT | D | 8 | Glvqttydls, Glacqssm, Glhobisc |
| FC_HOTRT | D | 8 | Glvqttydls, Glacqssm, Glhobisc |
| OA_AQDSL | D | 16 | Glaqdls, Glacqssm |
| TM_XDB | B1 | 160 | Glxdbdls |
| AS_TCPIP | B1 | 100 | NONE |
| OA_MIS_LNK | D | 3 | Glmsdls |
| FC_EIS_LNK | D | 16 | Gleisdl |
| AS_OAP | D | 40 | Gloapdl |
| OA_TAOPER | D,B1 | 99 | NONE |

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An inverse relation for RLDLDSL, named RLXNDLDSL, resides in the LP only. The tuples of RLXNDLDSL map one-to-one with tuples in the LP's version of RLDLDSL.

**Attribute:**
gdport
**Fullname:**
Global data link DSL PORT name
**Attribute Description:**
This is the global port name of the data link DSL.

**Attribute:**
gdport.member
**Fullname:**
port member for gdport
**Attribute Description:**
See gdport.

**Attribute:**
gdport.module
**Fullname:**
module for gdport
**Attribute Description:**
See gdport.

**Attribute:**
servclass
**Fullname:**
Service class
**Attribute Description:**
Service class of the data link DSL.

**Attribute:**
xnamid
**Fullname:**
data link eXternal NAMe ID
**Attribute Description:**
ID portion of the data link DSL external name.
The external name consists of two parts - an id (xnamid) and a relative link (xnamrl).

FC_HOTVT = (Voice Quote TTY)
FC_HOTRT = (Record TTY)

The xnamid for a RAS DSL (servclass HM_RAS) is the RISLU site number (domain DMRISITID). (see domain DMXNAMID).

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The xnamid value for RLDLDSL tuples with servclass OA_MIS_LNK must be set to the Management Information System ID that the link is used for.

The xnamid value for RLDLDSL tuples with servclass AS_OAP must be set to the Operator Service Center (OSC) or Force Management Center (FMC) number (ofc_num).

The xnamid value for RLDLDSL tuples with servclass FC_EIS_LNK must be set to the External Information System ID (eis_id) that the link is used for.

**Attribute:**
xnamrl
**Fullname:**
eXternal NAMe ReLative link
**Attribute Description:**
Relative link portion of the data link DSL.
(see domain DMXNAMRL).

**** SEE TABLE IN GENERAL SECTION ****

**Attribute:**
sm_rel_lnk
**Fullname:**
SM RELative LiNK
**Attribute Description:**
For servclass FC_EIS_LNK:
This is the link number of the EIS DSL relative to the SM. The global parameter Gleisdl will maintain the number of EIS links on the SM. The global parameter Gleiseq will maintain a list of available EIS links on an SM. Each bit in this global represents a link on the SM. If bit zero is one (1) then link zero is already in use. Bits which are zero indicate available links numbers on the SM.

**Defines:**
"db/DMportindx.h",
"db/DMport.h"

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# DLTUINFO

## 1. Description

DLTU/DLTU2 Information

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 1 |

## 3. Field Layout

```
DLTUINFO    relid = 1159  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     distance    DMCOUNT      (ushort)
     dltutype    DMUNITTYPE   (enum: 7)
 (a) dltu_num    DMUNS3       (ushort: 3)     <--- key
 (b) cable_series  DMCABLE      (enum: 2)
        User, Compacted and Stored Tuple Layout   DLTUINFO
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |             |     |   |       |
 0 |            distance           |   dltutype  |  a  | b |*******|
   |---------------+---------------+---------------+---------------|
      ( 4 bytes )
```

## 4. Population Rules for RLdltuinfo

**Relation Description** Digital Line/Trunk Unit Information
Contains equipment information on a unit shelf basis.

**Attribute: dltu_num**

**Fullname:** Digital Line/Trunk Unit Number

**Attribute Description** Used as a key for this relation.

**Attribute: dltutype**

**Fullname:** Digital Line/Trunk Unit Type

**Attribute Description** Indicates the type of unit associated with this DLTU2 number.

**Attribute: distance**

**Fullname:** Distance

**Attribute Description** Distance in feet between the DLTU2 backplane and the T1 Digital Cross-Connect (DSX) panel.

**Attribute: cable_series**

**Fullname:** Backplane Cable Series (type)

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**Attribute Description** Type (series) of cable between the DLTU2 backplane and the T1 Digital Cross-Connect (DSX) panel.

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# DN_ESP

## 1. Description

Digital Networking Unit - SONET (DNU-S) Essential Service Protection Masks

This is a 2-byte tuple relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3600 |
| expected number of tuples | 17 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 9 |
| ks key store | AUTO |

## 3. Field Layout

```
DN_ESP      relid = 2735  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     grpname     DMUNS16      (ushort)     <--- key, not stored
     espmask     DMUCHAR      (uchar)
         User and Compacted Tuple Layout     DN_ESP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |            grpname             |*******************************|
    |---------------+---------------+---------------+---------------|
    |                |                                               |
  4 |    espmask     |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     espmask     DMUCHAR      (uchar)
           Stored Tuple Layout   DN_ESP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                |                                              |
  0 |    espmask     |**********************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLdn_esp

**Relation Description** Digital Networking Unit - Synchronous Optical network (DN) Essential Service Protection (ESP) masks

```
DNU-S Essential Service Protection Masks
TUPLE SEMANTICS:
grpname (KEY)   - group name (see appropriate section here)
espmask         - 8 bit mask (bits zero through seven)
                  bit  = 1 turns ESP ON for corresponding line
                  bit  = 0 turns ESP OFF for corresponding line
                  corresponding bit in espmask
```

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```
                  esl    (see appropriate
                  value  section here)
                  -----  ----------------
                  DBYES        1
                  DBNO         0
**********************************************************************
```

RLdn_esp (TR303 RTs on DNU-S)

DESCRIPTION:
Indicates the Essential Service Protection (ESP) status (that is, ON or OFF) for each TR303 RT line.

There are no restrictions as to the number of RT lines with ESP ON or their positions in the RT. All ESP lines are treated equally even if they are adjacent (that is, blocking will not occur due to the selection of RT ESP lines). grpname The key to RLdn_esp is grpname, (0x0001 - 0xFFFC) which is generated as follows:

```
-----------------------------------------------------------------
|                                                               |
|                        LOGICAL  GSDB                          |
|                                                               |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
15  14  13  12  11  10   9   8   7   6   5   4   3   2   1   0
LOGICAL GSDB (bits 0-15) - number 0x0001 through 0xFFFC (Unique for
                           each DNU-S GSDB/SM) Zero (0) is illegal.
                           The grpname is located in RLgrp2ckt.gsdb_grp.
```

For each group of 8 ports on an RT terminated by DNU-S, no RLdn_esp tuple will exist if none of those ports have ESP. espmask If one or more of the ports in a group of 8 have ESP, a tuple will exist in RLdn_esp with one or more of the bits set in the espmask attribute. Each bit set represents a port with ESP. Each bit cleared represents a port without ESP.

The algorithm for setting a particular bit in the espmask attribute for a given port is:

new_espmask = old_espmask | (1 << (port_indx & 0x7))

**Attribute: grpname**

**Fullname:** Port group name

**Attribute Description** The key to this relation is 'grpname', which is generated in different ways depending on the type of unit the line resides on. The following sections tell how the key is generated. The RLdn_esp key is defined the same way as the RLgsdb key.

**Attribute: espmask**

**Fullname:** One byte per group ('on' means ESP is enabled for this port)

**Attribute Description** A tuple in the relation RLdn_esp only needs to exist if a line in the group has ESP. The espmask attribute indicates which lines have ESP. ESP lines receive priority originating treatment during severe peak traffic conditions if the user has enabled ESP.

Each line in a group will have a different bit for it in 'espmask'. Which bit a line uses is dependent on its relative position in the group and also the type of unit the line resides on.

Note: The attribute, espmask will logically be a projection of the RLrc_oeinfo 'esl' attribute for analog lines. ISDN lines with ESP do not have RLrc_oeinfo.esl set to DBYES.

**Defines:** "db/DMcircuit.h"

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# DN_FEATS

## 1. Description

This relation contains alist of BRCS constructed features assigned to a ISDN BRCS DN/Member or BRCS Feature Group (BFG). This is a virtual update relation. The tree diagram Figure 1 depicts the stored structure of virtual relation DN_FEATS.

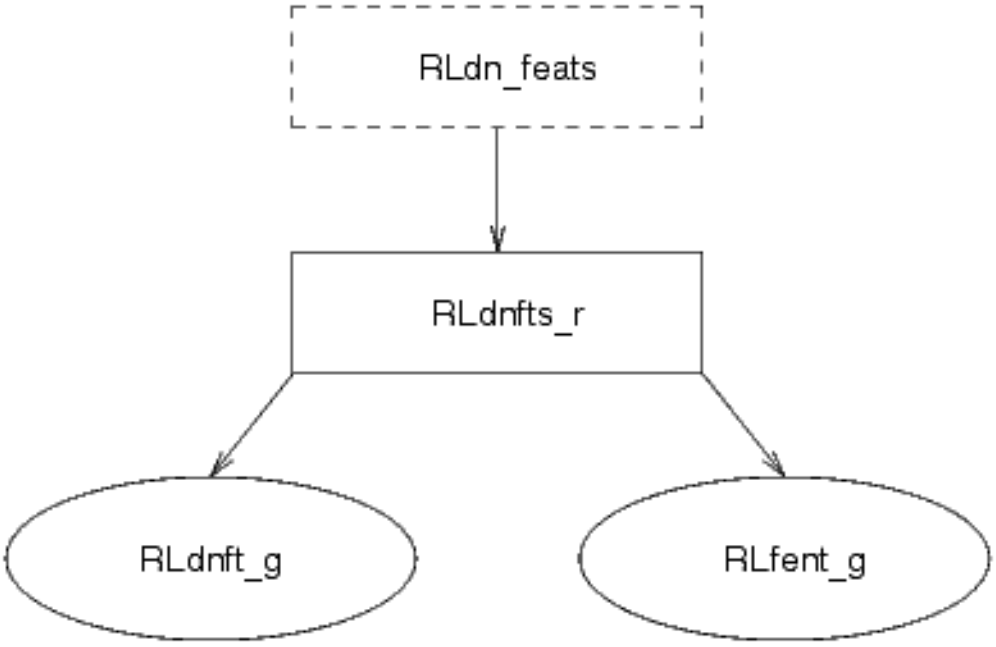


**Figure 1 Virtual Relation DN_FEATS**

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 0 |
| access type | DBACC_OPV |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| corcable relation | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
DN_FEATS    relid = 858   DBSTATIC   DBACC_OPV   DBNOTODD  LPFG    RCMAP

     lead_module  DMMODULE     (ushort: 8)      <--- key
 (a) ltm_type     DMLTM_TYPE   (enum: 1) <--- key
     ltm_idx      DMLTM_IDX    (ulong: 16)       <--- key
     range        DMFEAT_RNG   (uchar: 3)        <--- key
     feat_cnt     DMFEAT_CNT   (ushort: 5)
 (b) mlhg_ld      DMBOOL       (enum: 1)
 (c) ffcf1        DMBOOL       (enum: 1)
 (d) ffcf2        DMBOOL       (enum: 1)
 (e) ffcf3        DMBOOL       (enum: 1)
     tgid         DMUNS16      (ushort)
     ftent1       DMFACFTENT   (struct)
```

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```
        fid         DMMCC_FID    (ushort)
(f)     mastsw      DMBOOL       (enum: 1)
(g)     active      DMBOOL       (enum: 1)
(h)     rasalwd     DMBOOL       (enum: 1)
(i)     intratg     DMBOOL       (enum: 1)
(j)     intraoff    DMBOOL       (enum: 1)
(k)     interoff    DMBOOL       (enum: 1)
(l)     pf          DMBOOL       (enum: 1)
(m)     attndnt     DMBOOL       (enum: 1)
(n)     ath         DMBOOL       (enum: 1)
        selcrit     DMSELCRIT    (enum: 6)
    ftent2      DMFACFTENT   (struct)
        fid         DMMCC_FID    (ushort)
(o)     mastsw      DMBOOL       (enum: 1)
(p)     active      DMBOOL       (enum: 1)
(q)     rasalwd     DMBOOL       (enum: 1)
(r)     intratg     DMBOOL       (enum: 1)
(s)     intraoff    DMBOOL       (enum: 1)
(t)     interoff    DMBOOL       (enum: 1)
(u)     pf          DMBOOL       (enum: 1)
(v)     attndnt     DMBOOL       (enum: 1)
(w)     ath         DMBOOL       (enum: 1)
        selcrit     DMSELCRIT    (enum: 6)
    ftent3      DMFACFTENT   (struct)
        fid         DMMCC_FID    (ushort)
(x)     mastsw      DMBOOL       (enum: 1)
(y)     active      DMBOOL       (enum: 1)
(z)     rasalwd     DMBOOL       (enum: 1)
(A)     intratg     DMBOOL       (enum: 1)
(B)     intraoff    DMBOOL       (enum: 1)
(C)     interoff    DMBOOL       (enum: 1)
(D)     pf          DMBOOL       (enum: 1)
(E)     attndnt     DMBOOL       (enum: 1)
(F)     ath         DMBOOL       (enum: 1)
        selcrit     DMSELCRIT    (enum: 6)
    ftent4      DMFACFTENT   (struct)
        fid         DMMCC_FID    (ushort)
(G)     mastsw      DMBOOL       (enum: 1)
(H)     active      DMBOOL       (enum: 1)
(I)     rasalwd     DMBOOL       (enum: 1)
(J)     intratg     DMBOOL       (enum: 1)
(K)     intraoff    DMBOOL       (enum: 1)
(L)     interoff    DMBOOL       (enum: 1)
(M)     pf          DMBOOL       (enum: 1)
(N)     attndnt     DMBOOL       (enum: 1)
(O)     ath         DMBOOL       (enum: 1)
        selcrit     DMSELCRIT    (enum: 6)
    ftent5      DMFACFTENT   (struct)
        fid         DMMCC_FID    (ushort)
(P)     mastsw      DMBOOL       (enum: 1)
(Q)     active      DMBOOL       (enum: 1)
(R)     rasalwd     DMBOOL       (enum: 1)
(S)     intratg     DMBOOL       (enum: 1)
(T)     intraoff    DMBOOL       (enum: 1)
```

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```
 (U)     interoff    DMBOOL       (enum: 1)
 (V)     pf          DMBOOL       (enum: 1)
 (W)     attndnt     DMBOOL       (enum: 1)
 (X)     ath         DMBOOL       (enum: 1)
         selcrit     DMSELCRIT    (enum: 6)
    ftent6      DMFACFTENT   (struct)
         fid         DMMCC_FID    (ushort)
 (Y)     mastsw      DMBOOL       (enum: 1)
 (Z)     active      DMBOOL       (enum: 1)
 (a)     rasalwd     DMBOOL       (enum: 1)
 (b)     intratg     DMBOOL       (enum: 1)
 (c)     intraoff    DMBOOL       (enum: 1)
 (d)     interoff    DMBOOL       (enum: 1)
 (e)     pf          DMBOOL       (enum: 1)
 (f)     attndnt     DMBOOL       (enum: 1)
 (g)     ath         DMBOOL       (enum: 1)
         selcrit     DMSELCRIT    (enum: 6)
         User, Compacted and Stored Tuple Layout   DN_FEATS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               | |                               |     |       |
  0 |  lead_module  |a|            ltm_idx            |range|*******|
    |---------------+---------------+---------------+---------------|
    |         | | | | |             |                               |
  4 | feat_cnt|b|c|d|e|*************|              tgid             |
    |===============+===========  ftent1 ===========+===============|
    |                               | | | | | | | | |           | |
  8 |               fid             |f|g|h|i|j|k|l|m|n|  selcrit  |*|
    |===============+===========  ftent2 ===========+===============|
    |                               | | | | | | | | |           | |
 12 |               fid             |o|p|q|r|s|t|u|v|w|  selcrit  |*|
    |===============+===========  ftent3 ===========+===============|
    |                               | | | | | | | | |           | |
 16 |               fid             |x|y|z|A|B|C|D|E|F|  selcrit  |*|
    |===============+===========  ftent4 ===========+===============|
    |                               | | | | | | | | |           | |
 20 |               fid             |G|H|I|J|K|L|M|N|O|  selcrit  |*|
    |===============+===========  ftent5 ===========+===============|
    |                               | | | | | | | | |           | |
 24 |               fid             |P|Q|R|S|T|U|V|W|X|  selcrit  |*|
    |===============+===========  ftent6 ===========+===============|
    |                               | | | | | | | | |           | |
 28 |               fid             |Y|Z|a|b|c|d|e|f|g|  selcrit  |*|
    |===============+===============+===============+===============|
      ( 32 bytes )


domain alDN_FEATS struct  (11 sub-attributes)
         lead_module  .12.fake     (ushort)
 (a)     ltm_type    .1fake       (enum)
         ltm_idx     .13.fake     (ulong)
         range       .14.fake     (uchar: 3)
         feat_cnt    .15.fake     (ushort: 5)
```

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```
(b)     mlhg_ld     .0fake       (enum)
(c)     ffcf1       .0fake       (enum)
(d)     ffcf2       .0fake       (enum)
(e)     ffcf3       .0fake       (enum)
        tgid        unsigned short (ushort)
        ftent       .16.fake     (array [ 6 ] of .4fake )
            fid         unsigned short (ushort)
(f)         mastsw      .0fake       (enum)
(g)         active      .0fake       (enum)
(h)         rasalwd     .0fake       (enum)
(i)         intratg     .0fake       (enum)
(j)         intraoff    .0fake       (enum)
(k)         interoff    .0fake       (enum)
(l)         pf          .0fake       (enum)
(m)         attndnt     .0fake       (enum)
(n)         ath         .0fake       (enum)
            selcrit     .2fake       (enum)
                    Structure Layout    alDN_FEATS
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               | |                               |     |       |
 0 |  lead_module  |a|            ltm_idx            |range|*******|
   |---------------+---------------+---------------+---------------|
   |         | | | | |             |                               |
 4 | feat_cnt|b|c|d|e|*************|              tgid             |
   |===============+==========  ftent[0] ==========+===============|
   |                                | | | | | | | | |           | |
 8 |               fid              |f|g|h|i|j|k|l|m|n|  selcrit  |*|
   |===============+==========  ftent[1] ==========+===============|
   |                                | | | | | | | | |           | |
12 |               fid              |f|g|h|i|j|k|l|m|n|  selcrit  |*|
   |===============+==========  ftent[2] ==========+===============|
   |                                | | | | | | | | |           | |
16 |               fid              |f|g|h|i|j|k|l|m|n|  selcrit  |*|
   |===============+==========  ftent[3] ==========+===============|
   |                                | | | | | | | | |           | |
20 |               fid              |f|g|h|i|j|k|l|m|n|  selcrit  |*|
   |===============+==========  ftent[4] ==========+===============|
   |                                | | | | | | | | |           | |
24 |               fid              |f|g|h|i|j|k|l|m|n|  selcrit  |*|
   |===============+==========  ftent[5] ==========+===============|
   |                                | | | | | | | | |           | |
28 |               fid              |f|g|h|i|j|k|l|m|n|  selcrit  |*|
   |===============+===============+===============+===============|
      ( 32 bytes )
```

## 4. Population rules for RLdn_feats

### Relation Description

Directory Number (DN) features.

list of BRCS constructed features assigned to a ISDN BRCS

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DN/Member or BRCS Feature Group (BFG).

"Null feature entries contain the following values:

```
fid = 0
mastsw = DBNO
active = DBNO
rasalwd = DBNO
intratg = DBNO
intraoff = DBNO
interoff = DBNO
pf = DBNO
attndnt = DBNO
ath = DBNO
selcrit = SC_NULL
```

Non-null feature entries must precede null feature entries in the feature list. That is
Null feature entries cannot be interspersed among non-null feature entries.

If there is a tuple with range equal to x then for all tuples range less than x and the other keys the same, there are no null feature entries.
"

**Attribute:**
lead_module
**Fullname:**
lead module.
**Attribute Description:**
lead module.

**Attribute:**
ltm_type
**Fullname:**
logical termination index type.
**Attribute Description:**
logical termination index type.

**Attribute:**
ltm_idx
**Fullname:**
logical termination index.
**Attribute Description:**
logical termination index.

**Attribute:**
range

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**Fullname:**
range.
**Attribute Description:**
Indicates which of six fid entries to be accessed.

**Attribute:**
feat_cnt
**Fullname:**
feature count.
**Attribute Description:**
Indicates the number of features assigned.

**Attribute:**
mlhg_ld
**Fullname:**
Multiline Hunt Group (MLHG) boolean.
**Attribute Description:**
Set to DBYES if this is member 1 of a MLHG, else set to DBNO.

If mlhg_ld = DBYES, then range must be zero.

**Attribute:**
ffcf[*]
**Fullname:**
future feature field.
**Attribute Description:**
This attribute is reserved for future use by field features.

**Attribute:**
tgid
**Fullname:**
terminal group members.
**Attribute Description:**

Indicates the terminal group identifier
assigned to this LT port. This is only specified
when a terminal group feature (mftype = MFTGR)
igned to the LTport. When tgid is non-zero
there must be a feature entry in this relation
for a terminal group modular feature. If no
terminal group id is assigned, the tgid is set to zero.
For each non-zero unique tgid in the RLdn_feats relation,
there must be a corresponding tuple in RLdb_amgpd
(GPDTG, tgid).

All MLHG members must belong to the same terminal
group. Specifically, for ISAT MLHGs, all subgroup
DNs specified in RLrt_dntran with RLrt_dntran.mctran
equal to DBYES, must have a tuple in RLrt_mctr

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such that RLrt_mctr.tgid = RLdn_feats.tgid.

All MLHG members must have the same terminating station restriction.

If tgid not equal zero, then range must be zero.

**Attribute:**
ftent1
**Fullname:**
feature entry.
**Attribute Description:**
feature entry.

**Attribute:**
ftent1.fid
**Fullname:**
feature id.
**Attribute Description:**
Indicates the constructed feature id. If non-zero there must be a tuple in RLfacname with a facid equal to this fid. The class associated with the facid in RLfacname must be equal to FACBRCS.
If fid is zero see the following null feature entry.
Furthermore, the only valid modular feature types are:

MFLID, MFBCL,
MFCFW, MFLID, MFEDS, MFDR,
MFMDS, MFPP, MFPUT, MFRND,
MFTGR.

The following fid's are blocked from being assigned to DNs on Standard BRIs or analog shared with Std BRI:
MFEDS (unless SFID225 is purchased),
MFPP.

The following fid's are can be assigned only to DNs on Standard BRIs or analog shared with Std BRI:
MFRND.

The following features have restricted options on Standard BRI or DNs of analog shared with Standard BRI:
CFW - block call forwarding over private facilities
MDS - block leave word calling
MDS - block message retrieval display
MDS - block print on demand
MDS - block auto call setup
CPI - allow only CPN_PREF or CPN_ONLY options

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**Attribute:**
ftent1.mastsw
**Fullname:**
Master switch.
**Attribute Description:**
Indicates the status on master switch for this fid.

**Attribute:**
ftent1.active
**Fullname:**
Active.
**Attribute Description:**

Indicates the current run status of this fid.
DBNO indicates the fid is inactive: DBYES indicates
the fid is active.
If lead_module is 0 then
Features should be assigned as active.
Features with customer control options
of code will be assigned according to these rules:

1) All features with ACTNONE activation should
be assigned active.

2) All call forwarding features with activation
of ACTCD, ACTCD_DN, ACTCDDNC, OR ACTCDNCA should
be assigned inactive in the individual relations
RLfc_line and RLis_line. If this bfgid is assigned
to a non-ISDN terminal then the CFV_ON, CFDA_ON,
and CFBL_ON booleans in RLfc_line should be set
to DBNO. If the DN/Member is ISDN then the same
bits in RLis_line should be set to DBNO.
NOTE: There can be at most one of each of the
following Call Forwarding modular feature
types assigned in the BFG: CFV, CFDA
and CFBL
3) Features with an activation of ACTCD or ACTSCAN
and deactivation of DCTAUTO or DCTSCAN
are not allowed.

4) Display feature with ACTCD to
activate and DCTCD to deactivate will
be assigned active in the individual relations
RLfc_line and RLis_line. If this bfgid is
assigned to a non-ISDN terminal then the DISP_ON
boolean in RLfc_line should be set to DBNO.
If the DN/Member is ISDN then the DISP_ON bit
in RLis_line should be set to DBYES.
NOTE: There can be at most one Display
modular feature type assigned.

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5) Set this attribute to inactive (DBNO) for all LASS Selective Features (LSF) with the following modular feature types only when the screening list for that modular feature type does not exist.

   MFSCA for Selective Call Acceptance (SCA)/ Computer Access Restriction (CAR)
   MFSCF for Selective Call Forwarding (SCF)
   MFSCR for Selective Call Rejection (SCR)
   MFSDA for Selective Distinctive Alert (SDA)

   For retrofit, ODA will preserve the existing value of this attribute.

   RC does not update this attribute and always leaves it as is.

   LSF use the xxx_on (xxx represents sca, scf, scr, or sda) attribute in RLfc_line, RLis_line, and RLmhg_cf as a feature status indicator as follows:

| Attribute: | Usage: |
|---|---|
| RLfc_line.xxx_on | This attribute is applied to analog line for both individual line and member 1 of MLHG which has LTM_OTHER ltm_type. |
| RLis_line.xxx_on | This attribute is applied to ISDN and shared analog line for both individual line and member 1 of MLHG which has LTM_ISDN ltm_type. |
| RLmhg_cf.xxx_on | This attribute is applied to member 1 of MLHG for both analog and ISDN line. |

Otherwise,

Features should be assigned as active or inactive dependent on the status of their activation and constructed feature and or template base relation for the corresponding feature definition according to these rules.

1) If the actvn field in a feature's feature definition relation is ACTNONE, or there is no actvn field in that relation, active can be DBYES or DBNO. It will usually be DBYES, since the subscriber will not be able to CORC it on. If it is set to DBNO, Recent Change will have to be used to activate it.
   Active and Inactive with DBYES and DBNO respectively

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2) All call forwarding features with activation of ACTCD, ACTCD_DN, ACTCDDNC, OR ACTCDNCA should be assigned inactive.
Active and Inactive with DBYES and DBYNO respectively

3) All features with activation of ACTCD or ACTSCAN and deactivation of DCTAUTO or DCTSCAN should be assigned inactive.
Active and Inactive with DBYES and DBNO respectively

4) All features other than call forwarding with ACTCD to activate and ACTCD to deactivate can be assigned at the customer's discretion.
Active and Inactive with DBYES and DBNO respectively

5) Set this attribute to inactive (DBNO) for all LASS Selective Features (LSF) with the following modular feature types only when the screening list for that modular feature type does not exist.

| | | |
|---|---|---|
| MFSCA | for | Selective Call Acceptance (SCA)/ Computer Access Restriction (CAR) |
| MFSCF | for | Selective Call Forwarding (SCF) |
| MFSCR | for | Selective Call Rejection (SCR) |
| MFSDA | for | Selective Distinctive Alert (SDA) |

For retrofit, ODA will preserve the existing value of this attribute.

RC does not update this attribute and always leaves it as is.

LSF use the xxx_on (xxx represents sca, scf, scr, or sda) attribute in RLfc_line, RLis_line, and RLmhg_cf as a feature status indicator as follows:

| Attribute: | Usage: |
|---|---|
| RLfc_line.xxx_on | This attribute is applied to analog line for both individual line and member 1 of MLHG which has LTM_OTHER ltm_type. |
| RLis_line.xxx_on | This attribute is applied to ISDN and shared analog line for both individual line and member 1 of MLHG which has LTM_ISDN ltm_type. |
| RLmhg_cf.xxx_on | This attribute is applied to member 1 of MLHG for both analog and ISDN line. |

6) Call forwarding features with the CFN_ACDQIDL

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forwarding condition must always be active (DBYES).

**Attribute:**
ftent1.rasalwd
**Fullname:**
Remote Access Service (RAS) boolean.
**Attribute Description:**
This bit determines if RAS is supported
for this feature entry.

**Attribute:**
ftent1.intratg
**Fullname:**
Intra-terminal group.
**Attribute Description:**
This fid can be selected for calls between terminal group.
This attribute must be identical to the intratg attribute
for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent1.intraoff
**Fullname:**
intra-office.
**Attribute Description:**
This fid can be selected for calls between terminal
in the same office. This attribute must be identical
to the intraoff attribute for this fid in
RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent1.interoff
**Fullname:**
inter-office.
**Attribute Description:**
This fid can be selected for inter-office.
This attribute must be identical to the interoff
attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent1.pf
**Fullname:**
Private facility.
**Attribute Description:**
This field can be selected for private facility calls.
This attribute must be identical to the pf attribute
for this fid in RLfacftdsc(fid).ptyfilt.

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**Attribute:**
ftent1.attndnt
**Fullname:**
Attendant.
**Attribute Description:**
This fid can be selected for attendant calls.
This attribute must be identical to the attndnt
attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent1.ath
**Fullname:**
Authorization.
**Attribute Description:**
DBYES - this feature requiress an authorization
code for use.
DBNO - this feature does not require an authorization
code for use.

For the Modular Feature Types of MFMDS, MFMEDS,
MFLID and MFBCL RLdn_feats.ftent[n].ath will
equal DBNO.

**Attribute:**
ftent1.selcrit
**Fullname:**
Select criteria.
**Attribute Description:**
This is the selection criteria for this fid.selcrit.
This field is an enumerated value that must be
identical to RLfacftdsc.P.
See population rules for the selcrit attribute in
RLfacftdsc for a complete description.

**Attribute:**
ftent2
**Fullname:**
feature entry.
**Attribute Description:**
feature entry.

**Attribute:**
ftent2.fid
**Fullname:**
feature id.
**Attribute Description:**
Indicates the constructed feature id. If non-zero
there must be a tuple in RLfacname with a facid equal
to this fid. The class associated with the facid

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in RLfacname must be equal to FACBRCS.
If fid is zero see the following null feature entry.
Furthermore, the only valid modular feature types
are:

MFLID, MFBCL,
MFCFW, MFLID, MFEDS, MFDR,
MFMDS, MFPP, MFPUT,
MFTGR.

**Attribute:**
ftent2.mastsw
**Fullname:**
Master switch.
**Attribute Description:**
Indicates the status on master switch for this fid.

**Attribute:**
ftent2.active
**Fullname:**
Active.
**Attribute Description:**

Indicates the current run status of this fid.
DBNO indicates the fid is inactive: DBYES indicates
the fid is active.
If lead_module is 0 then
Features should be assigned as active.
Features with customer control options
of code will be assigned according to these rules:

1) All features with ACTNONE activation should
be assigned active.

2) All call forwarding features with activation
of ACTCD, ACTCD_DN, ACTCDDNC, OR ACTCDNCA should
be assigned inactive in the individual relations
RLfc_line and RLis_line. If this bfgid is assigned
to a non-ISDN terminal then the CFV_ON, CFDA_ON,
and CFBL_ON booleans in RLfc_line should be set
to DBNO. If the DN/Member is ISDN then the same
bits in RLis_line should be set to DBNO.
NOTE: There can be at most one of each of the
following Call Forwarding modular feature types
assigned in the BFG: CFV, CFDA
and CFBL
3) Features with an activation of ACTCD or ACTSCAN
and deactivation of DCTAUTO or DCTSCAN
are not allowed.

4) Display feature with ACTCD to

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activate and DCTCD to deactivate will
be assigned active in the individual relations
RLfc_line and RLis_line. If this bfgid is assigned
to a non-ISDN terminal then the DISP_ON
boolean in RLfc_line should be set to DBNO.
If the DN/Member is ISDN then the DISP_ON bit
in RLis_line should be set to DBYES.
NOTE: There can be at most one Display
modular feature type assigned.

5) Set this attribute to inactive (DBNO) for all
LASS Selective Features (LSF) with the following
modular feature types only when the screening list
for that modular feature type does not exist.

| | | |
|---|---|---|
| MFSCA | for | Selective Call Acceptance (SCA)/ Computer Access Restriction (CAR) |
| MFSCF | for | Selective Call Forwarding (SCF) |
| MFSCR | for | Selective Call Rejection (SCR) |
| MFSDA | for | Selective Distinctive Alert (SDA) |

For retrofit, ODA will preserve the existing value
of this attribute.

RC does not update this attribute and always leaves
it as is.

LSF use the xxx_on (xxx represents sca, scf, scr,
or sda) attribute in RLfc_line, RLis_line, and
RLmhg_cf as a feature status indicator as follows:

| Attribute: | Usage: |
|---|---|
| RLfc_line.xxx_on | This attribute is applied to analog line for both individual line and member 1 of MLHG which has LTM_OTHER ltm_type. |
| RLis_line.xxx_on | This attribute is applied to ISDN and shared analog line for both individual line and member 1 of MLHG which has LTM_ISDN ltm_type. |
| RLmhg_cf.xxx_on | This attribute is applied to member 1 of MLHG for both analog and ISDN line. |

Otherwise,

Features should be assigned as active or inactive
dependent on the status of their activation and
constructed feature and or template base relation

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for the corresponding feature definition according to these rules.

1) If the actvn field in a feature's feature definition relation is ACTNONE, or there is no actvn field in that relation, active can be DBYES or DBNO. It will usually be DBYES, since the subscriber will not be able to CORC it on. If it is set to DBNO, Recent Change will have to be used to activate it.
   Active and Inactive with DBYES and DBNO respectively

2) All call forwarding features with activation of ACTCD, ACTCD_DN, ACTCDDNC, OR ACTCDNCA should be assigned inactive.
   Active and Inactive with DBYES and DBYNO respectively

3) All features with activation of ACTCD or ACTSCAN and deactivation of DCTAUTO or DCTSCAN should be assigned inactive.
   Active and Inactive with DBYES and DBNO respectively

4) All features other than call forwarding with ACTCD to activate and ACTCD to deactivate can be assigned at the customer's discretion.
   Active and Inactive with DBYES and DBNO respectively

5) Set this attribute to inactive (DBNO) for all LASS Selective Features (LSF) with the following modular feature types only when the screening list for that modular feature type does not exist.

   | | | |
   |---|---|---|
   | MFSCA | for | Selective Call Acceptance (SCA)/ Computer Access Restriction (CAR) |
   | MFSCF | for | Selective Call Forwarding (SCF) |
   | MFSCR | for | Selective Call Rejection (SCR) |
   | MFSDA | for | Selective Distinctive Alert (SDA) |

   For retrofit, ODA will preserve the existing value of this attribute.

   RC does not update this attribute and always leaves it as is.

   LSF use the xxx_on (xxx represents sca, scf, scr, or sda) attribute in RLfc_line, RLis_line, and RLmhg_cf as a feature status indicator as follows:

   | Attribute: | Usage: |
   |---|---|
   | RLfc_line.xxx_on | This attribute is applied to analog line for both individual line and member 1 of MLHG which has LTM_OTHER ltm_type. |

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| | |
|---|---|
| RLis_line.xxx_on | This attribute is applied to ISDN and shared analog line for both individual line and member 1 of MLHG which has LTM_ISDN ltm_type. |
| RLmhg_cf.xxx_on | This attribute is applied to member 1 of MLHG for both analog and ISDN line. |

**Attribute:**
ftent2.rasalwd
**Fullname:**
Remote Access Service (RAS) boolean.
**Attribute Description:**
This bit determines if RAS is supported for this feature entry.

**Attribute:**
ftent2.intratg
**Fullname:**
Intra-terminal group.
**Attribute Description:**
This fid can be selected for calls between terminal group. This attribute must be identical to the intratg attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent2.intraoff
**Fullname:**
intra-office.
**Attribute Description:**
This fid can be selected for calls between terminal in the same office. This attribute must be identical to the intraoff attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent2.interoff
**Fullname:**
inter-office.
**Attribute Description:**
This fid can be selected for inter-office. This attribute must be identical to the interoff attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**

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ftent2.pf

**Fullname:**

Private facility.

**Attribute Description:**

This field can be selected for private facility calls. This attribute must be identical to the pf attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**

ftent2.attndnt

**Fullname:**

Attendant.

**Attribute Description:**

This fid can be selected for attendant calls. This attribute must be identical to the attndnt attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**

ftent2.ath

**Fullname:**

Authorization.

**Attribute Description:**

DBYES - this feature requiress an authorization code for use.

DBNO - this feature does not require an authorization code for use.

For the Modular Feature Types of MFMDS, MFMEDS, MFLID and MFBCL RLdn_feats.ftent[n].ath will equal DBNO.

**Attribute:**

ftent2.selcrit

**Fullname:**

Select criteria.

**Attribute Description:**

This is the selection criteria for this fid.selcrit. This field is an enumerated value that must be identical to RLfacftdsc.P. See population rules for the selcrit attribute in RLfacftdsc for a complete description.

**Attribute:**

ftent3

**Fullname:**

feature entry.

**Attribute Description:**

feature entry.

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**Attribute:**
ftent3.fid
**Fullname:**
feature id.
**Attribute Description:**
Indicates the constructed feature id. If non-zero there must be a tuple in RLfacname with a facid equal to this fid. The class associated with the facid in RLfacname must be equal to FACBRCS.
If fid is zero see the following null feature entry.
Furthermore, the only valid modular feature types are:

MFLID, MFBCL,
MFCFW, MFLID, MFEDS, MFDR,
MFMDS, MFPP, MFPUT,
MFTGR.

**Attribute:**
ftent3.mastsw
**Fullname:**
Master switch.
**Attribute Description:**
Indicates the status on master switch for this fid.

**Attribute:**
ftent3.active
**Fullname:**
Active.
**Attribute Description:**

Indicates the current run status of this fid.
DBNO indicates the fid is inactive: DBYES indicates the fid is active.
If lead_module is 0 then
Features should be assigned as active.
Features with customer control options
of code will be assigned according to these rules:

1) All features with ACTNONE activation should be assigned active.

2) All call forwarding features with activation of ACTCD, ACTCD_DN, ACTCDDNC, OR ACTCDNCA should be assigned inactive in the individual relations RLfc_line and RLis_line. If this bfgid is assigned to a non-ISDN terminal then the CFV_ON, CFDA_ON, and CFBL_ON booleans in RLfc_line should be set to DBNO. If the DN/Member is ISDN then the same bits in RLis_line should be set to DBNO.
NOTE: There can be at most one of each of the

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following Call Forwarding modular feature types assigned in the BFG: CFV, CFDA and CFBL

3) Features with an activation of ACTCD or ACTSCAN and deactivation of DCTAUTO or DCTSCAN are not allowed.

4) Display feature with ACTCD to activate and DCTCD to deactivate will be assigned active in the individual relations RLfc_line and RLis_line. If this bfgid is assigned to a non-ISDN terminal then the DISP_ON boolean in RLfc_line should be set to DBNO. If the DN/Member is ISDN then the DISP_ON bit in RLis_line should be set to DBYES.
NOTE: There can be at most one Display modular feature type assigned.

5) Set this attribute to inactive (DBNO) for all LASS Selective Features (LSF) with the following modular feature types only when the screening list for that modular feature type does not exist.

| | | |
|---|---|---|
| MFSCA | for | Selective Call Acceptance (SCA)/ Computer Access Restriction (CAR) |
| MFSCF | for | Selective Call Forwarding (SCF) |
| MFSCR | for | Selective Call Rejection (SCR) |
| MFSDA | for | Selective Distinctive Alert (SDA) |

For retrofit, ODA will preserve the existing value of this attribute.

RC does not update this attribute and always leaves it as is.

LSF use the xxx_on (xxx represents sca, scf, scr, or sda) attribute in RLfc_line, RLis_line, and RLmhg_cf as a feature status indicator as follows:

| Attribute: | Usage: |
|---|---|
| RLfc_line.xxx_on | This attribute is applied to analog line for both individual line and member 1 of MLHG which has LTM_OTHER ltm_type. |
| RLis_line.xxx_on | This attribute is applied to ISDN and shared analog line for both individual line and member 1 of MLHG which has LTM_ISDN ltm_type. |
| RLmhg_cf.xxx_on | This attribute is applied |

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to member 1 of MLHG for both analog and ISDN line.

Otherwise,

Features should be assigned as active or inactive dependent on the status of their activation and constructed feature and or template base relation for the corresponding feature definition according to these rules.

1) If the actvn field in a feature's feature definition relation is ACTNONE, or there is no actvn field in that relation, active can be DBYES or DBNO. It will usually be DBYES, since the subscriber will not be able to CORC it on. If it is set to DBNO, Recent Change will have to be used to activate it.
   Active and Inactive with DBYES and DBNO respectively

2) All call forwarding features with activation of ACTCD, ACTCD_DN, ACTCDDNC, OR ACTCDNCA should be assigned inactive.
   Active and Inactive with DBYES and DBYNO respectively

3) All features with activation of ACTCD or ACTSCAN and deactivation of DCTAUTO or DCTSCAN should be assigned inactive.
   Active and Inactive with DBYES and DBNO respectively

4) All features other than call forwarding with ACTCD to activate and ACTCD to deactivate can be assigned at the customer's discretion.
   Active and Inactive with DBYES and DBNO respectively

5) Set this attribute to inactive (DBNO) for all LASS Selective Features (LSF) with the following modular feature types only when the screening list for that modular feature type does not exist.

| | | |
|---|---|---|
| MFSCA | for | Selective Call Acceptance (SCA)/ Computer Access Restriction (CAR) |
| MFSCF | for | Selective Call Forwarding (SCF) |
| MFSCR | for | Selective Call Rejection (SCR) |
| MFSDA | for | Selective Distinctive Alert (SDA) |

   For retrofit, ODA will preserve the existing value of this attribute.

   RC does not update this attribute and always leaves it as is.

   LSF use the xxx_on (xxx represents sca, scf, scr,

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or sda) attribute in RLfc_line, RLis_line, and RLmhg_cf as a feature status indicator as follows:

| Attribute: | Usage: |
|---|---|
| RLfc_line.xxx_on | This attribute is applied to analog line for both individual line and member 1 of MLHG which has LTM_OTHER ltm_type. |
| RLis_line.xxx_on | This attribute is applied to ISDN and shared analog line for both individual line and member 1 of MLHG which has LTM_ISDN ltm_type. |
| RLmhg_cf.xxx_on | This attribute is applied to member 1 of MLHG for both analog and ISDN line. |

**Attribute:**
ftent3.rasalwd
**Fullname:**
Remote Access Service (RAS) boolean.
**Attribute Description:**
This bit determines if RAS is supported for this feature entry.

**Attribute:**
ftent3.intratg
**Fullname:**
Intra-terminal group.
**Attribute Description:**
This fid can be selected for calls between terminal group. This attribute must be identical to the intratg attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent3.intraoff
**Fullname:**
intra-office.
**Attribute Description:**
This fid can be selected for calls between terminal in the same office. This attribute must be identical to the intraoff attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent3.interoff
**Fullname:**
inter-office.
**Attribute Description:**

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This fid can be selected for inter-office.
This attribute must be identical to the interoff
attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent3.pf
**Fullname:**
Private facility.
**Attribute Description:**
This field can be selected for private facility calls.
This attribute must be identical to the attndnt
attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent3.ath
**Fullname:**
Authorization.
**Attribute Description:**
DBYES - this feature requiress an authorization
code for use.
DBNO - this feature does not require an authorization
code for use.

For the Modular Feature Types of MFMDS, MFMEDS, MFLID and
MFBCL RLdn_feats.ftent[n].ath will equal DBNO.

**Attribute:**
ftent3.selcrit
**Fullname:**
Select criteria.
**Attribute Description:**
This is the selection criteria for this fid.selcrit.
This field is an enumerated value that must be
identical to RLfacftdsc.P.
See population rules for the selcrit attribute in
RLfacftdsc for a complete description.

**Attribute:**
ftent4
**Fullname:**
feature entry.
**Attribute Description:**
feature entry.

**Attribute:**
ftent4.fid
**Fullname:**
feature id.

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**Attribute Description:**

Indicates the constructed feature id. If non-zero there must be a tuple in RLfacname with a facid equal to this fid. The class associated with the facid in RLfacname must be equal to FACBRCS.
If fid is zero see the following null feature entry.
Furthermore, the only valid modular feature types are:

MFLID, MFBCL,
MFCFW, MFLID, MFEDS, MFDR,
MFMDS, MFPP, MFPUT,
MFTGR.

**Attribute:**

ftent4.mastsw

**Fullname:**

Master switch.

**Attribute Description:**

Indicates the status on master switch for this fid.

## 5. DN_FEATS Population rules continued.

**Attribute:**

ftent4.active

**Fullname:**

Active.

**Attribute Description:**

Indicates the current run status of this fid.
DBNO indicates the fid is inactive: DBYES indicates the fid is active.
If lead_module is 0 then
Features should be assigned as active.
Features with customer control options
of code will be assigned according to these rules:

1) All features with ACTNONE activation should be assigned active.

2) All call forwarding features with activation of ACTCD, ACTCD_DN, ACTCDDNC, OR ACTCDNCA should be assigned inactive in the individual relations RLfc_line and RLis_line. If this bfgid is assigned to a non-ISDN terminal then the CFV_ON, CFDA_ON, and CFBL_ON booleans in RLfc_line should be set to DBNO. If the DN/Member is ISDN then the same bits in RLis_line should be set to DBNO.
   NOTE: There can be at most one of each of the following Call Forwarding modular feature types assigned in the BFG: CFV, CFDA
   and CFBL

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3) Features with an activation of ACTCD or ACTSCAN
and deactivation of DCTAUTO or DCTSCAN
are not allowed.

4) Display feature with ACTCD to
activate and DCTCD to deactivate will
be assigned active in the individual relations
RLfc_line and RLis_line. If this bfgid is assigned
to a non-ISDN terminal then the DISP_ON
boolean in RLfc_line should be set to DBNO.
If the DN/Member is ISDN then the DISP_ON bit
in RLis_line should be set to DBYES.
NOTE: There can be at most one Display
modular feature type assigned.

5) Set this attribute to inactive (DBNO) for all
LASS Selective Features (LSF) with the following
modular feature types only when the screening list
for that modular feature type does not exist.

| | | |
|---|---|---|
| MFSCA | for | Selective Call Acceptance (SCA)/ Computer Access Restriction (CAR) |
| MFSCF | for | Selective Call Forwarding (SCF) |
| MFSCR | for | Selective Call Rejection (SCR) |
| MFSDA | for | Selective Distinctive Alert (SDA) |

For retrofit, ODA will preserve the existing value of
this attribute.

RC does not update this attribute and always leaves
it as is.

LSF use the xxx_on (xxx represents sca, scf, scr,
or sda) attribute in RLfc_line, RLis_line, and
RLmhg_cf as a feature status indicator as follows:

| Attribute: | Usage: |
|---|---|
| RLfc_line.xxx_on | This attribute is applied to analog line for both individual line and member 1 of MLHG which has LTM_OTHER ltm_type. |
| RLis_line.xxx_on | This attribute is applied to ISDN and shared analog line for both individual line and member 1 of MLHG which has LTM_ISDN ltm_type. |
| RLmhg_cf.xxx_on | This attribute is applied to member 1 of MLHG for both analog and ISDN line. |

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Otherwise,

Features should be assigned as active or inactive dependent on the status of their activation and constructed feature and or template base relation for the corresponding feature definition according to these rules.

1) If the actvn field in a feature's feature definition relation is ACTNONE, or there is no actvn field in that relation, active can be DBYES or DBNO. It will usually be DBYES, since the subscriber will not be able to CORC it on. If it is set to DBNO, Recent Change will have to be used to activate it.
   Active and Inactive with DBYES and DBNO respectively

2) All call forwarding features with activation of ACTCD, ACTCD_DN, ACTCDDNC, OR ACTCDNCA should be assigned inactive.
   Active and Inactive with DBYES and DBYNO respectively

3) All features with activation of ACTCD or ACTSCAN and deactivation of DCTAUTO or DCTSCAN should be assigned inactive.
   Active and Inactive with DBYES and DBNO respectively

4) All features other than call forwarding with ACTCD to activate and ACTCD to deactivate can be assigned at the customer's discretion.
   Active and Inactive with DBYES and DBNO respectively

5) Set this attribute to inactive (DBNO) for all LASS Selective Features (LSF) with the following modular feature types only when the screening list for that modular feature type does not exist.

   | | | |
   |---|---|---|
   | MFSCA | for | Selective Call Acceptance (SCA)/ Computer Access Restriction (CAR) |
   | MFSCF | for | Selective Call Forwarding (SCF) |
   | MFSCR | for | Selective Call Rejection (SCR) |
   | MFSDA | for | Selective Distinctive Alert (SDA) |

   For retrofit, ODA will preserve the existing value of this attribute.

   RC does not update this attribute and always leaves it as is.

   LSF use the xxx_on (xxx represents sca, scf, scr, or sda) attribute in RLfc_line, RLis_line, and RLmhg_cf as a feature status indicator as follows:

   | Attribute: | Usage: |
   |---|---|

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RLfc_line.xxx_on This attribute is applied to analog line for both individual line and member 1 of MLHG which has LTM_OTHER ltm_type.

RLis_line.xxx_on This attribute is applied to ISDN and shared analog line for both individual line and member 1 of MLHG which has LTM_ISDN ltm_type.

RLmhg_cf.xxx_on This attribute is applied to member 1 of MLHG for both analog and ISDN line.

**Attribute:**
ftent4.rasalwd
**Fullname:**
Remote Access Service (RAS) boolean.
**Attribute Description:**
This bit determines if RAS is supported for this feature entry.

**Attribute:**
ftent4.intratg
**Fullname:**
Intra-terminal group.
**Attribute Description:**
This fid can be selected for calls between terminal group. This attribute must be identical to the intratg attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent4.intraoff
**Fullname:**
intra-office.
**Attribute Description:**
This fid can be selected for calls between terminal in the same office. This attribute must be identical to the intraoff attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent4.interoff
**Fullname:**
inter-office.
**Attribute Description:**
This fid can be selected for inter-office.

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This attribute must be identical to the interoff
attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent4.pf
**Fullname:**
Private facility.
**Attribute Description:**
This field can be selected for private facility
calls. This attribute must be identical to the pf
attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent4.attndnt
**Fullname:**
Attendant.
**Attribute Description:**
This fid can be selected for attendant calls.
This attribute must be identical to the attndnt
attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent4.ath
**Fullname:**
Authorization.
**Attribute Description:**
DBYES - this feature requiress an authorization
code for use.
DBNO - this feature does not require an authorization
code for use.

For the Modular Feature Types of MFMDS, MFMEDS, MFLID
and MFBCL RLdn_feats.ftent[n].ath will equal DBNO.

**Attribute:**
ftent4.selcrit
**Fullname:**
Select criteria.
**Attribute Description:**
This is the selection criteria for this fid.selcrit.
This field is an enumerated value that must be
identical to RLfacftdsc.P.
See population rules for the selcrit attribute in
RLfacftdsc for a complete description.

**Attribute:**
ftent5
**Fullname:**

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feature entry.

**Attribute Description:**

feature entry.

**Attribute:**

ftent5.fid

**Fullname:**

feature id.

**Attribute Description:**

Indicates the constructed feature id. If non-zero there must be a tuple in RLfacname with a facid equal to this fid. The class associated with the facid in RLfacname must be equal to FACBRCS.
If fid is zero see the following null feature entry.
Furthermore, the only valid modular feature types are:

MFLID, MFBCL,
MFCFW, MFLID, MFEDS, MFDR,
MFMDS, MFPP, MFPUT,
MFTGR.

**Attribute:**

ftent5.mastsw

**Fullname:**

Master switch.

**Attribute Description:**

Indicates the status on master switch for this fid.

**Attribute:**

ftent5.active

**Fullname:**

Active.

**Attribute Description:**

Indicates the current run status of this fid.
DBNO indicates the fid is inactive: DBYES indicates the fid is active.
If lead_module is 0 then
Features should be assigned as active.
Features with customer control options
of code will be assigned according to these rules:

1) All features with ACTNONE activation should be assigned active.

2) All call forwarding features with activation of ACTCD, ACTCD_DN, ACTCDDNC, OR ACTCDNCA should be assigned inactive in the individual relations RLfc_line and RLis_line. If this bfgid is assigned

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to a non-ISDN terminal then the CFV_ON, CFDA_ON, and CFBL_ON booleans in RLfc_line should be set to DBNO. If the DN/Member is ISDN then the same bits in RLis_line should be set to DBNO.
NOTE: There can be at most one of each of the following Call Forwarding modular feature types assigned in the BFG: CFV, CFDA and CFBL

3) Features with an activation of ACTCD or ACTSCAN and deactivation of DCTAUTO or DCTSCAN are not allowed.

4) Display feature with ACTCD to activate and DCTCD to deactivate will be assigned active in the individual relations RLfc_line and RLis_line. If this bfgid is assigned to a non-ISDN terminal then the DISP_ON boolean in RLfc_line should be set to DBNO. If the DN/Member is ISDN then the DISP_ON bit in RLis_line should be set to DBYES.
NOTE: There can be at most one Display modular feature type assigned.

5) Set this attribute to inactive (DBNO) for all LASS Selective Features (LSF) with the following modular feature types only when the screening list for that modular feature type does not exist.

| | | |
|---|---|---|
| MFSCA | for | Selective Call Acceptance (SCA)/ Computer Access Restriction (CAR) |
| MFSCF | for | Selective Call Forwarding (SCF) |
| MFSCR | for | Selective Call Rejection (SCR) |
| MFSDA | for | Selective Distinctive Alert (SDA) |

For retrofit, ODA will preserve the existing value of this attribute.

RC does not update this attribute and always leaves it as is.

LSF use the xxx_on (xxx represents sca, scf, scr, or sda) attribute in RLfc_line, RLis_line, and RLmhg_cf as a feature status indicator as follows:

| Attribute: | Usage: |
|---|---|
| RLfc_line.xxx_on | This attribute is applied to analog line for both individual line and member 1 of MLHG which has LTM_OTHER ltm_type. |
| RLis_line.xxx_on | This attribute is applied to ISDN and shared analog line for both individual |

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line and member 1 of MLHG which has LTM_ISDN ltm_type.

RLmhg_cf.xxx_on This attribute is applied to member 1 of MLHG for both analog and ISDN line.

Otherwise,

Features should be assigned as active or inactive dependent on the status of their activation and constructed feature and or template base relation for the corresponding feature definition according to these rules.

1) If the actvn field in a feature's feature definition relation is ACTNONE, or there is no actvn field in that relation, active can be DBYES or DBNO. It will usually be DBYES, since the subscriber will not be able to CORC it on. If it is set to DBNO, Recent Change will have to be used to activate it.
   Active and Inactive with DBYES and DBNO respectively

2) All call forwarding features with activation of ACTCD, ACTCD_DN, ACTCDDNC, OR ACTCDNCA should be assigned inactive.
   Active and Inactive with DBYES and DBYNO respectively

3) All features with activation of ACTCD or ACTSCAN and deactivation of DCTAUTO or DCTSCAN should be assigned inactive.
   Active and Inactive with DBYES and DBNO respectively

4) All features other than call forwarding with ACTCD to activate and ACTCD to deactivate can be assigned at the customer's discretion.
   Active and Inactive with DBYES and DBNO respectively

5) Set this attribute to inactive (DBNO) for all LASS Selective Features (LSF) with the following modular feature types only when the screening list for that modular feature type does not exist.

   | | | |
   |---|---|---|
   | MFSCA | for | Selective Call Acceptance (SCA)/ Computer Access Restriction (CAR) |
   | MFSCF | for | Selective Call Forwarding (SCF) |
   | MFSCR | for | Selective Call Rejection (SCR) |
   | MFSDA | for | Selective Distinctive Alert (SDA) |

   For retrofit, ODA will preserve the existing value of this attribute.

   RC does not update this attribute and always leaves it

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as is.

LSF use the xxx_on (xxx represents sca, scf, scr, or sda) attribute in RLfc_line, RLis_line, and RLmhg_cf as a feature status indicator as follows:

| Attribute: | Usage: |
|---|---|
| RLfc_line.xxx_on | This attribute is applied to analog line for both individual line and member 1 of MLHG which has LTM_OTHER ltm_type. |
| RLis_line.xxx_on | This attribute is applied to ISDN and shared analog line for both individual line and member 1 of MLHG which has LTM_ISDN ltm_type. |
| RLmhg_cf.xxx_on | This attribute is applied to member 1 of MLHG for both analog and ISDN line. |

**Attribute:**
ftent5.rasalwd
**Fullname:**
Remote Access Service (RAS) boolean.
**Attribute Description:**
This bit determines if RAS is supported for this feature entry.

**Attribute:**
ftent5.intratg
**Fullname:**
Intra-terminal group.
**Attribute Description:**
This fid can be selected for calls between terminal group. This attribute must be identical to the intratg attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent5.intraoff
**Fullname:**
intra-office.
**Attribute Description:**
This fid can be selected for calls between terminal in the same office. This attribute must be identical to the intraoff attribute for this fid in RLfacftdsc(fid).ptyfilt.

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**Attribute:**
ftent5.interoff
**Fullname:**
inter-office.
**Attribute Description:**
This fid can be selected for inter-office.
This attribute must be identical to the interoff
attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent5.pf
**Fullname:**
Private facility.
**Attribute Description:**
This field can be selected for private facility calls.
This attribute must be identical to the pf attribute
for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent5.attndnt
**Fullname:**
Attendant.
**Attribute Description:**
This fid can be selected for attendant calls.
This attribute must be identical to the attndnt
attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent5.ath
**Fullname:**
Authorization.
**Attribute Description:**
DBYES - this feature requiress an authorization
code for use.
DBNO - this feature does not require an authorization
code for use.

For the Modular Feature Types of MFMDS, MFMEDS, MFLID and MFBCL
RLdn_feats.ftent[n].ath will equal DBNO.

**Attribute:**
ftent5.selcrit
**Fullname:**
Select criteria.
**Attribute Description:**
This is the selection criteria for this fid.selcrit.
This field is an enumerated value that must be
identical to RLfacftdsc.P.
See population rules for the selcrit attribute in

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RLfacftdsc for a complete description.

**Attribute:**
ftent6
**Fullname:**
feature entry.
**Attribute Description:**
feature entry.

**Attribute:**
ftent6.fid
**Fullname:**
feature id.
**Attribute Description:**
Indicates the constructed feature id. If non-zero there must be a tuple in RLfacname with a facid equal to this fid. The class associated with the facid in RLfacname must be equal to FACBRCS.
If fid is zero see the following null feature entry.
Furthermore, the only valid modular feature types are:

MFLID, MFBCL,
MFCFW, MFLID, MFEDS, MFDR,
MFMDS, MFPP, MFPUT,
MFTGR.

**Attribute:**
ftent6.mastsw
**Fullname:**
Master switch.
**Attribute Description:**
Indicates the status on master switch for this fid.

**Attribute:**
ftent6.active
**Fullname:**
Active.
**Attribute Description:**

Indicates the current run status of this fid.
DBNO indicates the fid is inactive: DBYES indicates the fid is active.
If lead_module is 0 then
Features should be assigned as active.
Features with customer control options
of code will be assigned according to these rules:

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1) All features with ACTNONE activation should
be assigned active.

2) All call forwarding features with activation
of ACTCD, ACTCD_DN, ACTCDDNC, OR ACTCDNCA should
be assigned inactive in the individual relations
RLfc_line and RLis_line. If this bfgid is assigned
to a non-ISDN terminal then the CFV_ON, CFDA_ON,
and CFBL_ON booleans in RLfc_line should be set
to DBNO. If the DN/Member is ISDN then the same
bits in RLis_line should be set to DBNO.
NOTE: There can be at most one of each of the
following Call Forwarding modular feature types
assigned in the BFG: CFV, CFDA
and CFBL

3) Features with an activation of ACTCD or ACTSCAN
and deactivation of DCTAUTO or DCTSCAN
are not allowed.

4) Display feature with ACTCD to
activate and DCTCD to deactivate will
be assigned active in the individual relations
RLfc_line and RLis_line. If this bfgid is assigned
to a non-ISDN terminal then the DISP_ON
boolean in RLfc_line should be set to DBNO.
If the DN/Member is ISDN then the DISP_ON bit
in RLis_line should be set to DBYES.
NOTE: There can be at most one Display
modular feature type assigned.

5) Set this attribute to inactive (DBNO) for all
LASS Selective Features (LSF) with the following
modular feature types only when the screening list
for that modular feature type does not exist.

| | | |
|---|---|---|
| MFSCA | for | Selective Call Acceptance (SCA)/ Computer Access Restriction (CAR) |
| MFSCF | for | Selective Call Forwarding (SCF) |
| MFSCR | for | Selective Call Rejection (SCR) |
| MFSDA | for | Selective Distinctive Alert (SDA) |

For retrofit, ODA will preserve the existing value of
this attribute.

RC does not update this attribute and always leaves it
as is.

LSF use the xxx_on (xxx represents sca, scf, scr, or sda)
attribute in RLfc_line, RLis_line, and RLmhg_cf as a feature
status indicator as follows:

| Attribute: | Usage: |
|---|---|
| RLfc_line.xxx_on | This attribute is applied to analog |

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line for both individual line and member 1 of MLHG which has LTM_OTHER ltm_type.

RLis_line.xxx_on — This attribute is applied to ISDN and shared analog line for both individual line and member 1 of MLHG which has LTM_ISDN ltm_type.

RLmhg_cf.xxx_on — This attribute is applied to member 1 of MLHG for both analog and ISDN line.

Otherwise,

Features should be assigned as active or inactive dependent on the status of their activation and constructed feature and or template base relation for the corresponding feature definition according to these rules.

1) If the actvn field in a feature's feature definition relation is ACTNONE, or there is no actvn field in that relation, active can be DBYES or DBNO. It will usually be DBYES, since the subscriber will not be able to CORC it on. If it is set to DBNO, Recent Change will have to be used to activate it.
   Active and Inactive with DBYES and DBNO respectively

2) All call forwarding features with activation of ACTCD, ACTCD_DN, ACTCDDNC, OR ACTCDNCA should be assigned inactive.
   Active and Inactive with DBYES and DBYNO respectively

3) All features with activation of ACTCD or ACTSCAN and deactivation of DCTAUTO or DCTSCAN should be assigned inactive.
   Active and Inactive with DBYES and DBNO respectively

4) All features other than call forwarding with ACTCD to activate and ACTCD to deactivate can be assigned at the customer's discretion.
   Active and Inactive with DBYES and DBNO respectively

5) Set this attribute to inactive (DBNO) for all LASS Selective Features (LSF) with the following modular feature types only when the screening list for that modular feature type does not exist.

   MFSCA for Selective Call Acceptance (SCA)/ Computer Access Restriction (CAR)
   MFSCF for Selective Call Forwarding (SCF)
   MFSCR for Selective Call Rejection (SCR)

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MFSDA for Selective Distinctive Alert (SDA)

For retrofit, ODA will preserve the existing value of this attribute.

RC does not update this attribute and always leaves it as is.

LSF use the xxx_on (xxx represents sca, scf, scr, or sda) attribute in RLfc_line, RLis_line, and RLmhg_cf as a feature status indicator as follows:

| Attribute: | Usage: |
|---|---|
| RLfc_line.xxx_on | This attribute is applied to analog line for both individual line and member 1 of MLHG which has LTM_OTHER ltm_type. |
| RLis_line.xxx_on | This attribute is applied to ISDN and shared analog line for both individual line and member 1 of MLHG which has LTM_ISDN ltm_type. |
| RLmhg_cf.xxx_on | This attribute is applied to member 1 of MLHG for both analog and ISDN line. |

**Attribute:**
ftent6.rasalwd
**Fullname:**
Remote Access Service (RAS) boolean.
**Attribute Description:**
This bit determines if RAS is supported for this feature entry.

**Attribute:**
ftent6.intratg
**Fullname:**
Intra-terminal group.
**Attribute Description:**
This fid can be selected for calls between terminal group. This attribute must be identical to the intratg attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent6.intraoff
**Fullname:**
intra-office.
**Attribute Description:**

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This fid can be selected for calls between terminal in the same office. This attribute must be identical to the intraoff attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent6.interoff
**Fullname:**
inter-office.
**Attribute Description:**
This fid can be selected for inter-office. This attribute must be identical to the interoff attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent6.pf
**Fullname:**
Private facility.
**Attribute Description:**
This field can be selected for private facility calls. This attribute must be identical to the pf attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent6.attndnt
**Fullname:**
Attendant.
**Attribute Description:**
This fid can be selected for attendant calls. This attribute must be identical to the attndnt attribute for this fid in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent6.ath
**Fullname:**
Authorization.
**Attribute Description:**
DBYES - this feature requiress an authorization code for use.
DBNO - this feature does not require an authorization code for use.

For the Modular Feature Types of MFMDS, MFMEDS, MFLID and MFBCL RLdn_feats.ftent[n].ath will equal DBNO.

**Attribute:**
ftent6.selcrit

**Fullname:**

Select criteria.

**Attribute Description:**

This is the selection criteria for this fid.selcrit.
This field is an enumerated value that must be
identical to RLfacftdsc.P.
See population rules for the selcrit attribute in
RLfacftdsc for a complete description.

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# DN_G

## 1. Description

Storage relation for directory number DN attribute.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected tuples | 50 |
| memory type | DBPRAM |
| access type | DBACC_GK |
| distribution | LP |
| application | CCS |
| relation type | DBSTORAGE |
| head page size | 1024 |
| data page size | 512 |
| page level | 2 |
| index length | 0 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel reverse index | rlDN_I |

## 3. Field Layout

```
DN_G        relid = 1681  DBSTORAGE  DBACC_GK    DBPRAM    LP      CCS
     gkDN_G      DMGK14       (ulong: 14)       <--- key, not stored
     dn          DMDN         (struct)  <--- compacted
       digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
            User Tuple Layout      DN_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|           gkDN_G              |
    |===============+=============  dn =============+===============|
    |       |       |                                                 |
  4 | digcnt|*******|                      dn                         |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
  8 |                               dn                                |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
 12 |                               dn                                |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
 16 |                               dn                                |
    |===============+===============+===============+===============|
       ( 20 bytes )
     gkDN_G      DMGK14       (ulong: 14)       <--- key, not stored
     dn          DMCDN        (struct)  <--- compacted
         dig8        DMUNS4       (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
         dig9        DMUNS4       (ushort: 4)
         dig1        DMUNS4       (ushort: 4)
```

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```
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
         Compacted Tuple Layout   DN_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|           gkDN_G              |
    |===============+=============  dn =============+===============|
    |       |       |       |       |       |       |       |       |
  4 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
  8 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
    |===============+===============+===============+===============|
    |                                                               |
 12 |***************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |***************************************************************|
    |---------------+---------------+---------------+---------------|
      ( 20 bytes )
     dn          DMCDN        (struct)  <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
          Stored Tuple Layout     DN_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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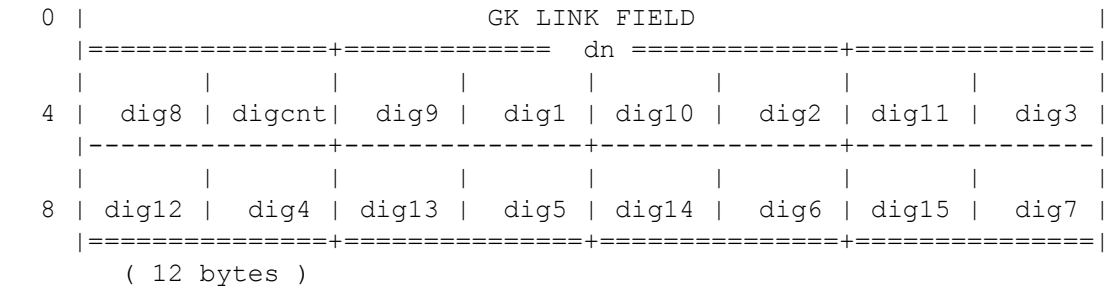


## 4. Population Rules for RLdn_g

There are no population rules for this relation.

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# DN_LOCDN

## 1. Description

This relation maps a 7-digit DN and port to a locdn.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16382 |
| expected number of tuples | 232 |
| density | 80 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
DN_LOCDN    relid = 2739  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     pdn          DMPDN        (struct)     <--- key
         dig1         DMUNS4       (ushort: 4)
         dig2         DMUNS4       (ushort: 4)
         dig3         DMUNS4       (ushort: 4)
         dig4         DMUNS4       (ushort: 4)
         dig5         DMUNS4       (ushort: 4)
         dig6         DMUNS4       (ushort: 4)
         dig7         DMUNS4       (ushort: 4)
     port         DMPORT       (ushort)     <--- key
     locdn        DMLOCDN      (struct)     <--- compacted
         noc          DMNOC        (ushort: 14)
         digits       DMLOCDIG     (array [ 4 ] of char )
            User Tuple Layout      DN_LOCDN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============ pdn =============+===============|
    |       |       |       |       |       |       |       |       |
  0 |  dig1 |  dig2 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |*******|
    |===============+===============+===============+===============|
    |                                 |                               |
  4 |               port              |*******************************|
    |===============+============ locdn ============+===============|
    |   |                             |                               |
  8 |***|            noc              |              digits           |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                 |                               |
 12 |              digits             |*******************************|
    |===============+===============+===============+===============|
       ( 16 bytes )
     pdn          DMPDN        (struct)     <--- key
         dig1         DMUNS4       (ushort: 4)
         dig2         DMUNS4       (ushort: 4)
         dig3         DMUNS4       (ushort: 4)
         dig4         DMUNS4       (ushort: 4)
         dig5         DMUNS4       (ushort: 4)
         dig6         DMUNS4       (ushort: 4)
```

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```
        dig7        DMUNS4       (ushort: 4)
    port        DMPORT       (ushort)     <--- key
    locdn       DMKLOCDN     (struct)     <--- compacted
        noc         DMNOC        (ushort: 14)
        index       DMUNS14      (ushort: 14)
         Compacted Tuple Layout   DN_LOCDN
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+============= pdn =============+===============|
   |       |       |       |       |       |       |       |       |
 0 |  dig1 |  dig2 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |*******|
   |===============+===============+===============+===============|
   |                               |                               |
 4 |              port             |*******************************|
   |===============+============ locdn ============+===============|
   |   |                           |                           |   |
 8 |***|            noc            |           index           |***|
   |===============+===============+===============+===============|
   |                                                               |
12 |***************************************************************|
   |---------------+---------------+---------------+---------------|
     ( 16 bytes )
    pdn         DMPDN        (struct)     <--- key
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    port        DMPORT       (ushort)     <--- key
    locdn       DMKLOCDN     (struct)     <--- compacted
        noc         DMNOC        (ushort: 14)
        index       DMUNS14      (ushort: 14)
          Stored Tuple Layout     DN_LOCDN
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+============= pdn =============+===============|
   |       |       |       |       |       |       |       |       |
 0 |  dig1 |  dig2 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |*******|
   |===============+===============+===============+===============|
   |                               |                               |
 4 |              port             |*******************************|
   |===============+============ locdn ============+===============|
   |   |                           |                           |   |
 8 |***|            noc            |           index           |***|
   |===============+===============+===============+===============|
     ( 12 bytes )
```

## 4. Population Rules for RLdn_locdn

**Relation Description** 7 digit DN to Local DN
This relation is used to translate a 7 digit DN to a NOC and 4 digit DN format. Used by ISDN lines only.

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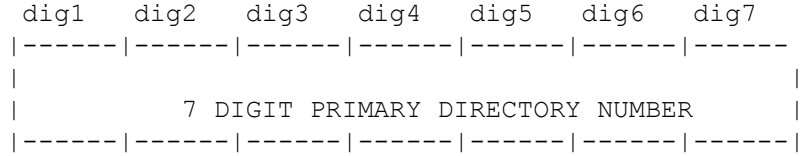
**Attribute: pdn**

**Fullname:** Primary Directory Number

**Attribute Description** PDN is the 7 digit DN used for a user's Service Profile IDentifier (SPID)




**Attribute: pdn.dig1**

**Fullname:** digit 1

**Attribute Description** refer to description of pdn

**Attribute: pdn.dig2**

**Fullname:** digit 2

**Attribute Description** refer to description of pdn

**Attribute: pdn.dig3**

**Fullname:** digit 3

**Attribute Description** refer to description of pdn

**Attribute: pdn.dig4**

**Fullname:** digit 4

**Attribute Description** refer to description of pdn

**Attribute: pdn.dig5**

**Fullname:** digit 5

**Attribute Description** refer to description of pdn

**Attribute: pdn.dig6**

**Fullname:** digit 6

**Attribute Description** refer to description of pdn

**Attribute: pdn.dig7**

**Fullname:** digit 7

**Attribute Description** refer to description of pdn

**Attribute: port**

**Fullname:** D-channel port

**Attribute Description** The port is a sequentially assigned number administered by Recent Change.

**Attribute: locdn**

**Fullname:** Local directory number

**Attribute Description** This attribute consists of the NOC (normalized office code) and four

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directory number digits.

**Attribute: locdn.noc**

**Fullname:** Normalized office code

**Attribute Description** Normalized office code

**Attribute: locdn.digits**

**Fullname:** Digits

**Attribute Description** The local dn minus the NOC.

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# DN_LPT

## 1. Description

Extended Primary Directory Number (PDN) and logical port type to logical port mapping. The only logical port types currently supported are LPT_ISDN and LPT_PKT.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16382 |
| expected number of tuples | 232 |
| density | 80 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks keystore | AUTO |

## 3. Field Layout

```
DN_LPT      relid = 1230  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     lport       DMLPORT      (ushort: 16)
 (a) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key
 (b) lpt_styp    DMLPT_STYP   (enum: 1)     <--- key
     locdn       DMLOCDN      (struct)     <--- key, compacted
         noc         DMNOC        (ushort: 14)
         digits      DMLOCDIG     (array [ 4 ] of char )
            User Tuple Layout    DN_LPT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |   | |                         |
  0 |             lport               | a |b|*************************|
    |===============+============ locdn ============+===============|
    |   |                             |                               |
  4 |***|            noc              |             digits            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
    |                                 |                               |
  8 |             digits              |*******************************|
    |===============+===============+===============+===============|
       ( 12 bytes )
     lport       DMLPORT      (ushort: 16)
 (a) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key
 (b) lpt_styp    DMLPT_STYP   (enum: 1)     <--- key
     locdn       DMKLOCDN     (struct)     <--- key, compacted
         noc         DMNOC        (ushort: 14)
         index       DMUNS14      (ushort: 14)
          Compacted Tuple Layout     DN_LPT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |   | |                         |
  0 |             lport               | a |b|*************************|
    |===============+============ locdn ============+===============|
    |   |                             |                             |   |
  4 |***|            noc              |           index             |***|
```

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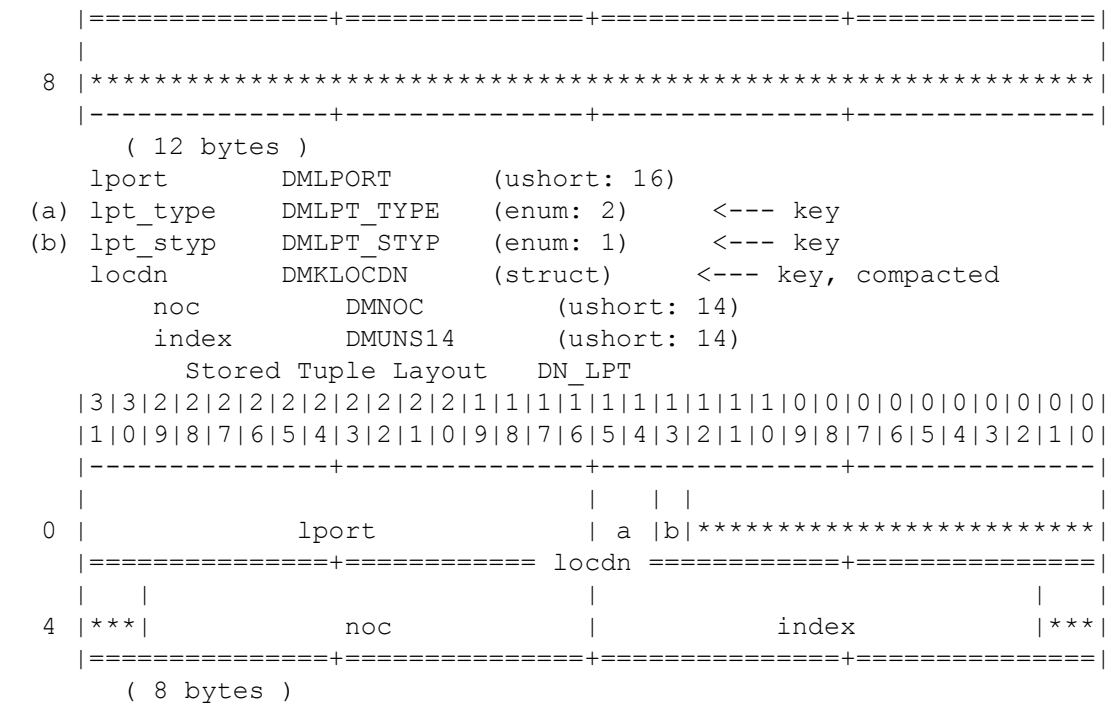


## 4. Population Rules for RLdn_lpt

**Relation Description** Logical PORT (LPORT)
This relation is used to equate a DN and LPT_TYPE to its corresponding LPORT. The LPORT and LPT_TYPE are used as keys to other Service Order Profile (SOP) relations.

The following tuple semantics detail the allowed values for the possible combinations of Logical Port Type and Logical Port Sub-Type.

```
TUPLE SEMANTICS for Circuit Switched Logical Port Type
------------------------------------------------
locdn           Local Directory Number
lpt_type        LPT_ISDN - ISDN Circuit Switched lport
lpt_styp        LPT_SUB1
lport           Circuit Switched Logical Port

TUPLE SEMANTICS for Permanent Packet D-Channel Logical Port Type
------------------------------------------------
locdn           Local Directory Number
lpt_type        LPT_PKT - ISDN Packet Switched lport
lpt_styp        LPT_SUB1 - Permanent Packet D-Channel
lport           Packet Switched Logical Port
TUPLE SEMANTICS for On-Demand B-Channel Logical Port Type

------------------------------------------------
locdn           Local Directory Number
lpt_type        LPT_PKT - ISDN Packet Switched lport
lpt_styp        LPT_SUB2 - On-Demand B-Channel
lport           Packet Switched Logical Port"
```

**Attribute: locdn**

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**Fullname:** Local directory number

**Attribute Description** This attribute consists of the NOC (normalized office code) and four directory number digits.

**Attribute: locdn.noc**

**Fullname:** Normalized office code

**Attribute Description** Normalized office code

**Attribute: locdn.digits**

**Fullname:** Digits

**Attribute Description** The local dn minus the office code.

**Attribute: lpt_type**

**Fullname:** Logical PorT TYPE (LPT_TYPE)

**Attribute Description** The LPT_TYPE indicates the logical port type that corresponds to this lport.

**Attribute: lpt_styp**

**Fullname:** Logical Port Sub-Type

**Attribute Description** The usage of the Logical Port Sub-Type is as follows:

```
For the Packet Logical Port Type (lpt_type=LPT_PKT)

lpt_styp     Definition
--------     ---------------
LPT_SUB1     Permanent Packet D-Channel
LPT_SUB2     On-Demand Packet B-Channel

For all other Logical Port Type

lpt_styp     Definition
--------     ---------------
LPT_SUB1     All
LPT_SUB2     Unused
```

**Attribute: lport**

**Fullname:** Logical Port

**Attribute Description** The LPORT is a sequentially assigned number administered by recent change. For more information on the allocation of LPORTs, refer to the population rules for RLrc_lphol and RLrc_qidx.

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# DN_PSCM

## 1. Description

This relation contains information on the Series Completion member that series complete to a Directory Number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 60000 |
| expected tuples in relation | 2100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| corcable | DBNO |

## 3. Field Layout

```
DN_PSCM     relid = 1333  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     pltm_idx    DMLTM_IDX    (ulong: 16)
     tupnum      DMUNS9       (ushort: 9)     <--- key
 (a) pltm_type   DMLTM_TYPE   (enum: 1)
     plead_module  DMMODULE     (ushort: 8)
     scmdn       DMLOCDN      (struct)     <--- key, compacted
         noc         DMNOC        (ushort: 14)
         digits      DMLOCDIG     (array [ 4 ] of char )
            User Tuple Layout   DN_PSCM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                 | |           |
  0 |            pltm_idx           |      tupnum     |a|***********|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  4 |  plead_module |***********************************************|
    |===============+============ scmdn ============+===============|
    |   |                           |                               |
  8 |***|            noc            |             digits            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                               |                               |
 12 |             digits            |*******************************|
    |===============+===============+===============+===============|
       ( 16 bytes )
     pltm_idx    DMLTM_IDX    (ulong: 16)
     tupnum      DMUNS9       (ushort: 9)     <--- key
 (a) pltm_type   DMLTM_TYPE   (enum: 1)
     plead_module  DMMODULE     (ushort: 8)
     scmdn       DMKLOCDN     (struct)     <--- key, compacted
         noc         DMNOC        (ushort: 14)
         index       DMUNS14      (ushort: 14)
          Compacted Tuple Layout    DN_PSCM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                 | |           |
```

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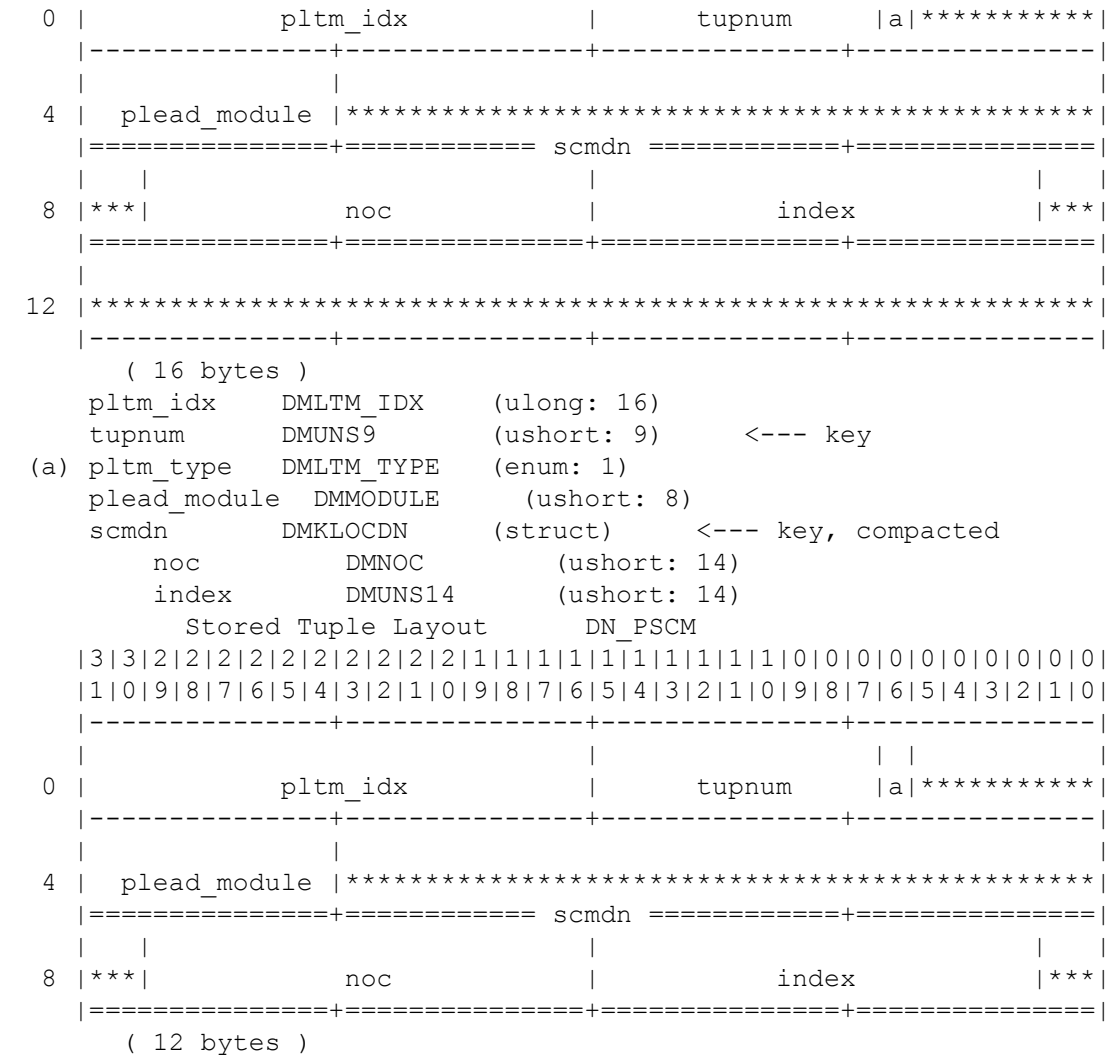


## 4. Population Rules for RLdn_pscm

**Relation Description** Previous Series Completion Member for a Series Completion DN
This relation is used by Recent Change to track the reverse linkage for a series completion linked list. For a set of DNs A, B, and C where A and B both series complete to C, this relation will allow Recent Change code to start with C's DN and determine that A and B series complete to it. The linkage from A to C or from B to C is stored in relation RLscm_nscm. For a particular DN, there may be a maximum of 512 other DNs which series complete to it.

**Attribute: scmdn**

**Fullname:** Local Directory number of a Series Completion linked list member.

**Attribute Description** Local Directory Number of a member of a Series Completion Linked List.

**Attribute: scmdn.noc**

**Fullname:** Normalized office code(NOC).

**Attribute Description** The NOC of the Directory Number corresponding to the next member in the Series Completion linked list.

**Attribute: scmdn.digits**

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**Fullname:** Digits of the Directory Number

**Attribute Description** Last 4 digits of the DN corresponding to a Member of a Series Completion group. The Directory Number must be part of the Office Dialing Plan.

**Attribute: tupnum**

**Fullname:** Tuple Number

**Attribute Description** Tupnum is a sequence number to distinguish multiple tuples with the same scmdn. Tupnum is assigned and maintained as a consecutive series starting with 0 and ending with 511.

**Attribute: pltm_idx**

**Fullname:** Logical termination index of a previous member of a Series Completion linked list.

**Attribute Description** This logical termination index of a previous member, along with the attributes pltm_type and plead_module, uniquely identify a previous member of a Series Completion linked list. This previous member series completes to the Directory Number in the scmdn attribute.

**Attribute: pltm_type**

**Fullname:** Logical Termination Type of a previous Series Completion member

**Attribute Description** Indicates the logical termination type (ISDN or analog) of a previous series completion member.

**Attribute: plead_module**

**Fullname:** Lead Module of a previous series completion member

**Attribute Description** Indicates what module a previous series completion member resides on.

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# DN_RDTA

## 1. Description

This static relation resides in the AM and it stores the output directory numbers for the remote protocol access (RPA) feature. The key for the relation is directory number associated with the output port.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 96 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RDTA |
| relation type | DBSTATIC |

## 3. Field Layout

```
DN_RDTA     relid = 1492  DBSTATIC   DBACC_HASH  DBPRAM    LP      RDTA
     dn          DMDN         (struct)  <--- key
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
     channel     DMUNS5       (ushort: 5)
     pair        DMUNS5       (ushort: 5)
     csc_id      DMTEXT8      (array [ 8 ] of char )
     gport       DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout    DN_RDTA
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============  dn ============+===============|
    |       |       |                                             |
  0 | digcnt|*******|                      dn                     |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                             |
  4 |                               dn                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                             |
  8 |                               dn                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                             |
 12 |                               dn                            |
    |===============+===============+===============+===============|
    |         |         |           |                               |
 16 | channel |   pair  |***********|             csc_id            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                             |
 20 |                             csc_id                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                             |
 24 |             csc_id            |*****************************|
    |===============+============ gport ============+===============|
    |                               |                |              |
 28 |             member            |***************|     module    |
```

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```
|===============+===============+===============+===============|
   ( 32 bytes )
```

## 4. Population Rules for RLdn_rdta

**Relation Description** Relation to store the output directory numbers for the remote digital test access (RDTA) 5e7(1) Capability.
This relation is used strictly by the 5e7(1) Remote Protocol Access Capability (j131). The relation is not used by call processing. The relation is to reside in the AM and is used to store the output directory number associated with the RDTA port. The relation will exist on both the access switch and the remote switch. Refer to the 'general' section for more details.

This relation is not used for call processing.

If the relation is populated for a Pseudo-BRI on a T, Phase 2 U or *ANSI*™ U ISDN Line card, tuples will be populated ONLY in RLfc_porttyp, RLfc_line, RLlpt_pt, RLrt_dntran, and RLdn_rdta. Tuples will NOT be populated in RLdslequip, RLequipdsl, RLdslgdata, RLpsx25ln, RLdpidbpts RLdgrp_ri or RLri_dgrp. Also see the following note for un-populated relations. Spare line cards may not be used for Pseudo-BRI ports.

RDTA output facilities are not supported on IDCU BRI ports. There should be no tuples in this relation for IDCU BRI ports.

If the relation is populated for a PRI on an EDSL Trunk Group tuples will be populated in RLfc_porttyp, RLrt_trkg, RLfc_trunk, RLrc_trk and RLrctgrprk as well as any other relation which normal EDSL trunk groups are populated. There must never be a route index assigned to this trunk group in RLrt_routing or RLrt_mcrt since the trunk group must be used entirely for RDTA members. The EDSL trunk group must have the call by call feature inactive. There will never be an lport value associated with an RDTA EDSL trunk group member. See the following note for un-populated relations.

The dn will always be populated with a ten digit number for the access switch (NPA-NXX-XXXX). Recent change and ODA will map the seven digit number entered on the view to a full 10 digit number. If the gport is > 0, dn.digcnt must equal 10. On the remote switch the dn may have from 7 to 15 digits defined depending on how the port is reached from the customer support center (CSC).

The gport will be populated with the BRI or PRI port if the switch is the access switch; however, if the switch is the remote switch the gport will be 0.

```
PLEASE NOTE:
------------

There will not be any tuples populated in RLrc_oeinfo for RPA
pseudo BRI or EDSL PRI ports!
There is no line class code associated with an RPA port!
(No RLrc_lcc tuples will be populated).
```

**Attribute: dn**

**Fullname:** Directory Number associated with the RPA output facility

**Attribute Description** The dn field may contain up to a 15 digit number for the output RPA facility port depending on where the port is located. Ports on the access switch must have exactly 10 digits defined and ports on the remote switch may have from 7 to 15 digits defined. The minimum seven digits are for NXX and 4 digits.

When a Pseudo BRI OE is provisioned all three dn's for the BRI must be entered (D Channel TN, B1 Channel TN and B2 Channel TN). This restriction does not apply to EDSL PRI dn's.

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NOTE: The DN is NOT populated in RLrc_oeinfo and has NO LCC!!!!

**Attribute: dn.digcnt**

**Fullname:** This field contains the number of digits populated

**Attribute Description** See the DN usage section.

**Attribute: dn.dn**

**Fullname:** dn.dn may contain up to 15 digits.

**Attribute Description** See Usage section for dn.

**Attribute: csc_id**

**Fullname:** Customer Service Center ID number.

**Attribute Description** Used to store the Customer Service Center ID number where the RPA test equipment is located.

**Attribute: gport**

**Fullname:** Global port name of the BRI/PRI output facility.

**Attribute Description** Used to store the Global Port name of the Pseudo BRI or EDSL PRI facility being used for the RPA session on the Access Switch. This attribute will be zero if the relation is on the Remote Switch (on the remote switch the relation is used strictly for comments only).

**Attribute: gport.member**

**Fullname:** The gport member for either the Pseudo BRI or EDSL PRI.

**Attribute Description** See gport usage section.

**Attribute: gport.module**

**Fullname:** The module where the Pseudo BRI or EDSL PRI port is located.

**Attribute Description** See gport usage section.

**Attribute: channel**

**Fullname:** Channel Number of the RPA output facility (0-23)

**Attribute Description** The attribute stores the Pseudo BRI or EDSL PRI Channel Number used by the RPA output facility. Valid range is 0-23. The value 0 is used for Pseudo BRI D Channel only and is not valid for PRI D Channel. The values 1 and 2 may either represent the B1 and B2 channels of a Pseudo BRI or channels 1 and 2 of a PRI. The values 3 - 23 may only represent PRI channels.

**Attribute: pair**

**Fullname:** Pseudo BRI or PRI output facility pair number.

**Attribute Description** Attribute defines the optional paired number for an RPA output facility. There may be from 1 to 24 pairs defined. Pair should be set to zero if the switch personnel wishes not to assign a particular output facility a paired number. Pairing allows the switch personnel to add separate pair numbers to sets of BRI or PRI pairs to allow for ease of identification when office records are printed.

In order to be compatible with some types of existing monitoring equipment (protocol analyzers) the monitor data will be transported from the access switch over pairs of ISDN facilities; either PRI or Pseudo BRI. One BRI of each pair will be used to transport Transmit data, the other BRI to

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transport Receive data. PRI facilities, if they are used, will be configured in the same manner; one facility from each pair will be used for Transmit data, the other for Receive data. In these cases a unique pair number would be given to both the transmit and receive facility. There is no data cross checking for this attribute so the switch personnel must document and enter the pair numbers consistently and sequentially. Monitoring equipment not requiring paired facilities will not use this attribute and will be populated with a default value.

In providing this mapping capability to be centralized at the Access Switch, the switch personnel from any remote location would be able to initiate a request to print, via office records, a list of the output facilities for that Access Switch showing the TN assigned to each channel, the CSC ID, the channel identification, and the 'pair' it is assigned to.

The capability will provide the customer with a means for identifying output facilities in pairs for documentation purposes. The use of this attribute is optional and will not affect the capability functionality.

**Defines:** "db/DMportindx.h"

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# DN32_G

## 1. Description

This relation stores dn string (32 digits max).

This is a child storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 6000 |
| expected tuples | 2000 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTORAGE |
| head table size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| index length | 0 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel GK-index relation | rlDN32_I |

## 3. Field Layout

```
DN32_G      relid = 1628  DBSTORAGE  DBACC_GK    DBPRAM    LPFG    RCMAP
     gkDN32_G    DMGK14       (ulong: 14)       <--- key, not stored
     fwd_dn      DMEDN32      (struct)  <--- compacted
         dcnt32      DMDCNT32     (ushort: 6)
         edn32       DMEDIGSTR    (array [ 32 ] of char )
            User Tuple Layout    DN32_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             |
  0 |*********************************|          gkDN32_G           |
    |===============+===========  fwd_dn ===========+===============|
    |           |                                                   |
  4 |   dcnt32  |***************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             edn32                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                             edn32                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                             edn32                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                             edn32                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 24 |                             edn32                             |
```

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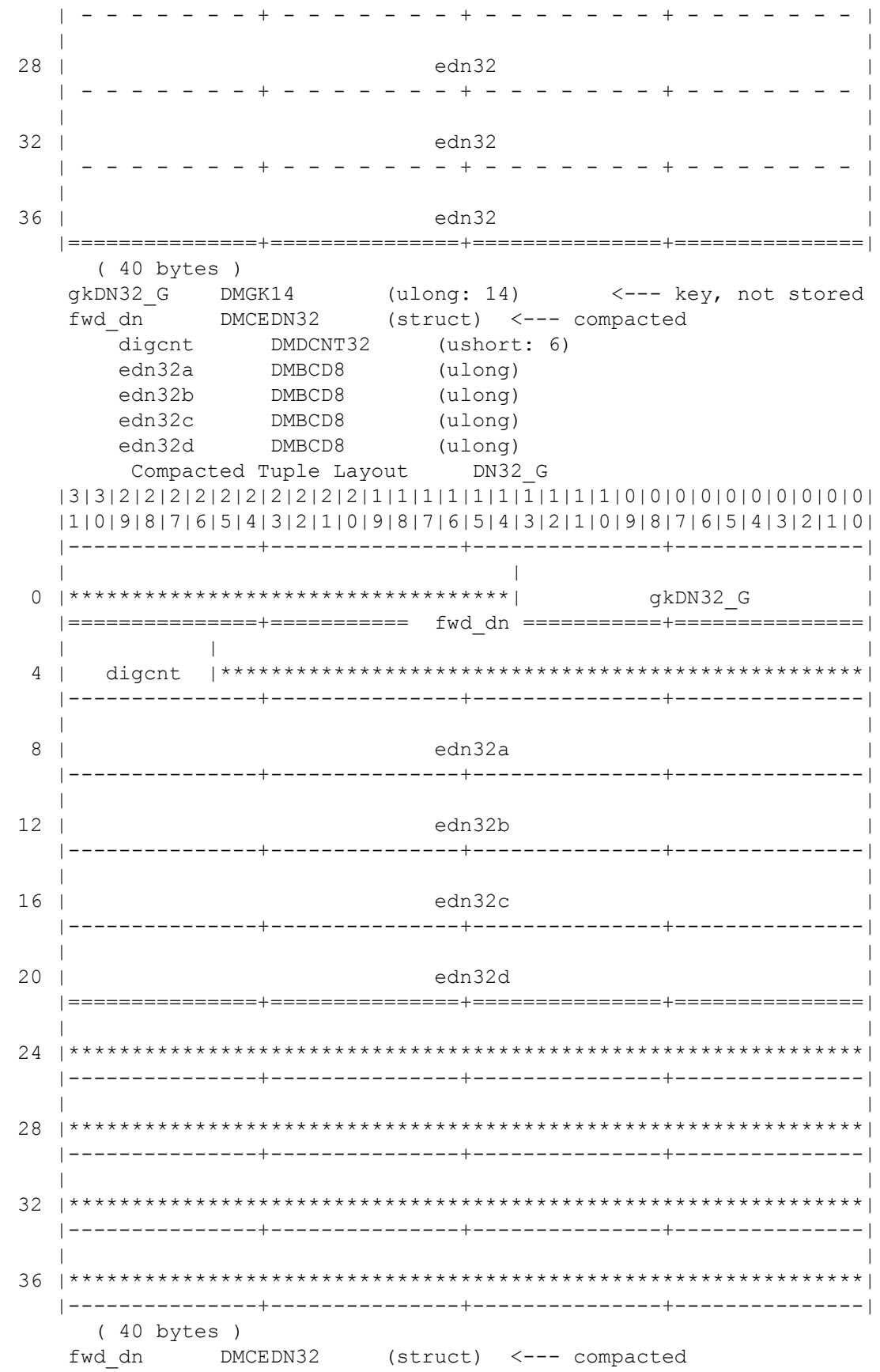


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```
        digcnt      DMDCNT32     (ushort: 6)
        edn32a      DMBCD8       (ulong)
        edn32b      DMBCD8       (ulong)
        edn32c      DMBCD8       (ulong)
        edn32d      DMBCD8       (ulong)
          Stored Tuple Layout   DN32_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                         GK LINK FIELD                         |
   |===============+===========  fwd_dn ===========+===============|
   |           |                                                   |
 4 |   digcnt  |***************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 8 |                             edn32a                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
12 |                             edn32b                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
16 |                             edn32c                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |                             edn32d                            |
   |===============+===============+===============+===============|
      ( 24 bytes )
```

## 4. Population Rules for RLdn32_g

There are no population rules for this relation.

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# DNFT_G

## 1. Description

This relation contains a list of BRCS constructed features assigned to a ISDN BRCS DN/Member or BRCS feature group (BFG).

This is a child storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 6912 |
| expected tuples | 26 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTORAGE |
| ks key store | AUTO |
| foldtype | DBGC31 |
| gkidxrel GK-index relation | rlDNFT_I |

## 3. Field Layout

```
DNFT_G      relid = 1634  DBSTORAGE  DBACC_GK    DBPRAM    LPFG    RCMAP
     gkDNFT_G    DMGK14       (ulong: 14)        <--- key, not stored
     tgid        DMUNS16      (ushort)
     feat_cnt    DMFEAT_CNT   (ushort: 5)
  (a) mlhg_ld    DMBOOL       (enum: 1)
  (b) ffcf1      DMBOOL       (enum: 1)
  (c) ffcf2      DMBOOL       (enum: 1)
  (d) ffcf3      DMBOOL       (enum: 1)
         User and Compacted Tuple Layout     DNFT_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkDNFT_G             |
    |---------------+---------------+---------------+---------------|
    |                                 |         | | | | |             |
  4 |              tgid               | feat_cnt|a|b|c|d|*************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     tgid        DMUNS16      (ushort)
     feat_cnt    DMFEAT_CNT   (ushort: 5)
  (a) mlhg_ld    DMBOOL       (enum: 1)
  (b) ffcf1      DMBOOL       (enum: 1)
  (c) ffcf2      DMBOOL       (enum: 1)
  (d) ffcf3      DMBOOL       (enum: 1)
           Stored Tuple Layout   DNFT_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                          GK LINK FIELD                        |
    |---------------+---------------+---------------+---------------|
```

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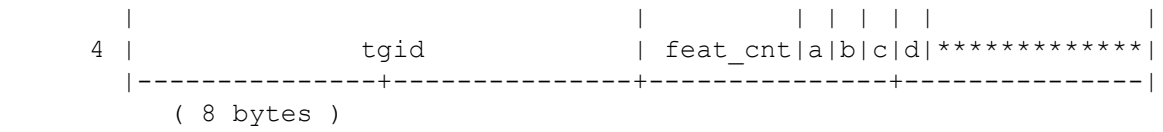


## 4. Population Rules for RLdnf_g

There are no population rules for this relation.

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# DNFTS_R

## 1. Description

List of BRCS constructed features assigned to a ISDN BRCS DN/member or BRCS feature group (BFG).

This is a root storage relation with two children RLfent_g and RLdnft_g.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 172800 |
| expected number of tuples | 262 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTORAGE |
| density | 21 |
| ks key store | AUTO |

## 3. Field Layout

```
DNFTS_R     relid = 1633  DBSTORAGE  DBACC_CIND  DBPRAM    LPFG    RCMAP
 (a) ltm_type    DMLTM_TYPE   (enum: 1) <--- key, not stored
     lead_module  DMMODULE     (ushort: 8)      <--- key, not stored
     range       DMFEAT_RNG   (uchar: 3)        <--- key, not stored
     ltm_idx     DMLTM_IDX    (ulong: 16)       <--- key, not stored
     dnlist      DMGK14       (ulong: 14)
     ftlist      DMGK14       (ulong: 14)
         User and Compacted Tuple Layout    DNFTS_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | |               |     |                                 |       |
  0 |a|  lead_module  |range|            ltm_idx              |*******|
    |---------------+---------------+---------------+---------------|
    |                             |                               |       |
  4 |           dnlist            |            ftlist             |*******|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     dnlist      DMGK14       (ulong: 14)
     ftlist      DMGK14       (ulong: 14)
           Stored Tuple Layout      DNFTS_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                             |                               |       |
  0 |           dnlist            |            ftlist             |*******|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLdnfts_r

There are no population rules for this relation.

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# DNINF_R

## 1. Description

Root storage relation for RC_DNINFO.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28000 |
| expected number of tuples | 3000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTORAGE |
| head table size | 2048 |
| intermediate page size | 512 |
| data page size | 256 |
| page level | 3 |
| index length | 10 |
| i2 index into intermediate page | 8 |
| ks key store | DBNO |

## 3. Field Layout

```
DNINF_R     relid = 1683  DBSTORAGE  DBACC_CIND  DBPRAM    LP      RCDATA
 (a) psflag      DMBOOL       (enum: 1) <--- key, not stored
     dn          DMLOCDN      (struct)  <--- key, not stored,
                                            compacted
         noc         DMNOC        (ushort: 8)
         digits      DMLOCDIG     (array [ 4 ] of char )
     remarks     DMGK16       (ulong: 16)
     lccrax      DMGK14       (ulong: 14)
 (b) mbs         DMBOOL       (enum: 1)
 (c) rbv         DMBOOL       (enum: 1)
     att_grp     DMGRUPNM     (ushort: 11)
            User Tuple Layout   DNINF_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | |                                                             |
  0 |a|*************************************************************|
    |===============+=============  dn ==============+===============|
    |               |               |                               |
  4 |***************|      noc      |             digits            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  8 |             digits            |*******************************|
    |===============+===============+===============+===============|
    |                               |                           | | |
 12 |            remarks            |           lccrax          |b|c|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
 16 |       att_grp         |***************************************|
    |---------------+---------------+---------------+---------------|
      ( 20 bytes )
 (a) psflag      DMBOOL       (enum: 1) <--- key, not stored
```

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```
    dn          DMKLOCDN     (struct)  <--- key, not stored, compacted
        noc         DMNOC        (ushort: 8)
        index       DMUNS14      (ushort: 14)
    remarks     DMGK16       (ulong: 16)
    lccrax      DMGK14       (ulong: 14)
(b) mbs         DMBOOL       (enum: 1)
(c) rbv         DMBOOL       (enum: 1)
    att_grp     DMGRUPNM     (ushort: 11)
         Compacted Tuple Layout    DNINF_R
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   | |                                                             |
 0 |a|*************************************************************|
   |===============+=============  dn =============+===============|
   |               |               |                             |   |
 4 |***************|      noc      |           index             |***|
   |===============+===============+===============+===============|
   |                                                             |
 8 |*************************************************************|
   |---------------+---------------+---------------+---------------|
   |                               |                             | | |
12 |            remarks            |           lccrax            |b|c|
   |---------------+---------------+---------------+---------------|
   |                       |                                     |
16 |       att_grp         |*************************************|
   |---------------+---------------+---------------+---------------|
     ( 20 bytes )
    remarks     DMGK16       (ulong: 16)
    lccrax      DMGK14       (ulong: 14)
(a) mbs         DMBOOL       (enum: 1)
(b) rbv         DMBOOL       (enum: 1)
    att_grp     DMGRUPNM     (ushort: 11)
          Stored Tuple Layout      DNINF_R
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                             | | |
 0 |            remarks            |           lccrax            |a|b|
   |---------------+---------------+---------------+---------------|
   |                       |                                     |
 4 |       att_grp         |*************************************|
   |---------------+---------------+---------------+---------------|
     ( 8 bytes )
```

## 4. Population Rules for RLdninf_r

There are no population rules for this relation.

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# DNLPT

## 1. Description

This is the Extended Primary Directory Number (PDN) and logical port type to logical port mapping relation. The only logical port types currently supported are LPT_ISDN and LPT_PKT.

This is a virtual update relation. The tree diagram Figure 1 depicts the stored structure of virtual relation DNLPT.

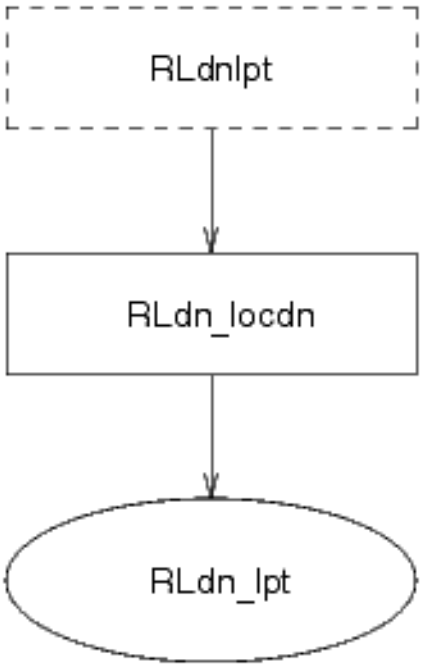


**Figure 1 Virtual Relation DNLPT**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FP |
| relation type | DBNOSEQU |

## 3. Field Layout

```
DNLPT       relid = 2740  DBNOSEQU   DBACC_OPV   DBNOTODD  FP      NULL
     epdn         DMEPDN        (struct)     <--- key
          nadig5       DMUNS4        (ushort: 4)
          nadig1       DMUNS4        (ushort: 4)
          nadig6       DMUNS4        (ushort: 4)
          nadig2       DMUNS4        (ushort: 4)
          nadig7       DMUNS4        (ushort: 4)
          nadig3       DMUNS4        (ushort: 4)
          nadig8       DMUNS4        (ushort: 4)
          nadig4       DMUNS4        (ushort: 4)
          nadig13      DMUNS4        (ushort: 4)
          nadig9       DMUNS4        (ushort: 4)
          nadig14      DMUNS4        (ushort: 4)
          nadig10      DMUNS4        (ushort: 4)
```

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```
        nadig15     DMUNS4       (ushort: 4)
        nadig11     DMUNS4       (ushort: 4)
 (a)    nadigcnt    DMUNS4       (ushort: 4)
        nadig12     DMUNS4       (ushort: 4)
    lport       DMLPORT      (ushort: 16)
 (b) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key
 (c) lpt_styp    DMLPT_STYP   (enum: 1)     <--- key
    port        DMPORT       (ushort)     <--- key
        User, Compacted and Stored Tuple Layout  DNLPT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+============  epdn ============+===============|
   |       |       |       |       |       |       |       |       |
 0 | nadig5| nadig1| nadig6| nadig2| nadig7| nadig3| nadig8| nadig4|
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 4 |nadig13| nadig9|nadig14|nadig10|nadig15|nadig11|   a   |nadig12|
   |===============+===============+===============+===============|
   |                                 |   | |                         |
 8 |             lport               | b |c|*************************|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
12 |              port               |*******************************|
   |---------------+---------------+---------------+---------------|
      ( 16 bytes )
```

## 4. Population Rules for RLdnlpt

There are no population rules for this relation.

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# DNNTWK

## 1. Description

This is a static relation containing npa, carrier key, nxxs, and carrier id combination that is within the LEC intracompany network.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 48 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 2048 |
| permutation type | unperm |

## 3. Field Layout

```
DNNTWK      relid = 339   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     oanpa       DMUNS10      (ushort: 10)      <--- key
 (a) oaindex     DMUNS3       (ushort: 3)       <--- key
     oacarr      DMBCARID     (ushort: 14)
     oamap1      DMHEX32      (ulong)
     oamap2      DMHEX32      (ulong)
     oamap3      DMHEX32      (ulong)
     oamap4      DMHEX32      (ulong)
     oamap5      DMHEX32      (ulong)
     oamap6      DMHEX32      (ulong)
     oamap7      DMHEX32      (ulong)
     oamap8      DMHEX32      (ulong)
     oamap9      DMHEX32      (ulong)
     oamap10     DMHEX32      (ulong)
     oamap11     DMHEX32      (ulong)
     oamap12     DMHEX32      (ulong)
     oamap13     DMHEX32      (ulong)
     oamap14     DMHEX32      (ulong)
     oamap15     DMHEX32      (ulong)
     oamap16     DMHEX32      (ulong)
     oamap17     DMHEX32      (ulong)
     oamap18     DMHEX32      (ulong)
     oamap19     DMHEX32      (ulong)
     oamap20     DMHEX32      (ulong)
     oamap21     DMHEX32      (ulong)
     oamap22     DMHEX32      (ulong)
     oamap23     DMHEX32      (ulong)
     oamap24     DMHEX32      (ulong)
     oamap25     DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout DNNTWK
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |     |     |                           |   |
  0 |       oanpa       |  a  |*****|           oacarr          |***|
    |---------------+---------------+---------------+---------------|
```

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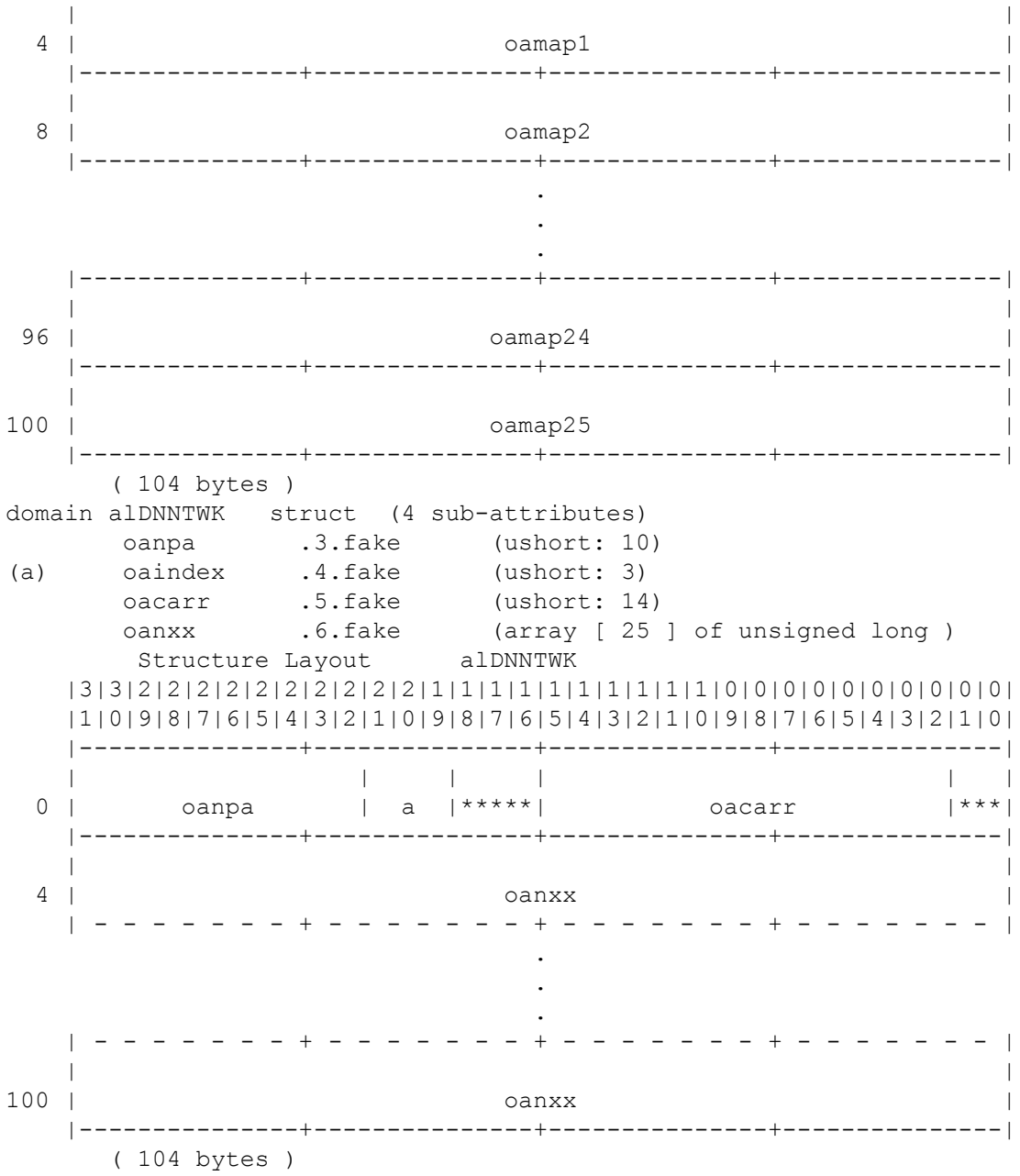


## 4. Population Rules for RLdnntwk

**Relation Description** Directory Number Network
Static relation containing npa, carrier key, nxxs, and carrier id combination that is within the LEC intracompany network.

**Attribute: oanpa**

**Fullname:** operator action NPA

**Attribute Description** Valid NPAs (recent changeable) with a range of 3 digits.

**Attribute: oaindex**

**Fullname:** operator action index

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**Attribute Description** An interexchange carrier that is supplying service to a LEC's private network. LEC may contract with as many as 3 different interexchange carriers for its private network. Value is recent changeable. There must be at least 1 index per NPA key. The 2 additional indices are not mandatory.

**Attribute: oacarr**

**Fullname:** operator action carrier id

**Attribute Description** Valid carrier value which corresponds and exists in the RLfc_carr relation.

**Attribute: oamap[*]**

**Fullname:** operator action map

**Attribute Description** Valid NXXs bit mapped (recent changeable). The range of the bit map is 000-799, which corresponds to valid NXXs within the 200-999 range. This bit map is comprised of 25 fields, OAMAP1 - OAMAP25. Each field contains information for 32 NXXs. Each bit of the NXX bit string represents a valid NXX (200-999 for all map fields). NXX 200 is represented by bit 000, NXX 201 is represented by bit 001, etc. Bit 001 is the low order bit. Each bit is independently set to either a 0 or 1. If a bit is set to a one in one of the RLdnntwk tuples, then the corresponding bit in the RLdnntwk tuple(s) of the same value of OANPA has to be 0. Map fields that cover NXXs are:

```
OAMAP1       NXXs  200-231
OAMAP2       NXXs  232-263
OAMAP3       NXXs  264-295
OAMAP4       NXXs  296-327
OAMPA5       NXXs  328-359
OAMAP6       NXXs  360-391
OAMPA7       NXXs  392-423
OAMAP8       NXXs  424-455
OAMAP9       NXXs  456-487
OAMAP10      NXXs  488-519
OAMAP11      NXXs  520-551
OAMAP12      NXXs  552-583
OAMAP13      NXXs  584-615
OAMAP14      NXXs  616-647
OAMAP15      NXXs  648-679
OAMAP16      NXXs  680-711
OAMAP17      NXXs  712-743
OAMAP18      NXXs  744-775
OAMAP19      NXXs  776-807
OAMAP20      NXXs  808-839
OAMAP21      NXXs  840-871
OAMAP22      NXXs  872-903
OAMAP23      NXXs  904-935
OAMAP24      NXXs  936-967
OAMAP25      NXXs  968-999
DEFAULT: None.
```

A range of NXXs within an NPA can be specified for a specific carrier.

defines: "db/DMcarr_val.h"

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# DNRALST

## 1. Description

This relation contains the DIOR Network Remote Access exceptions to the default treatment of Allow or Deny based upon the originating country code.

This relation is to have a distribution of FP (fixed partition), by inwnpa, officecode and feature of 'NRA' based on RLdehocsm.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 50000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
DNRALST     relid = 2574  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     inwnpa       DMONPA        (ushort: 10)      <--- key
     oaff1        DMUNS6        (ushort: 6)
     officecode   DMINXX        (ushort: 10)      <--- key
     oaff2        DMUNS6        (ushort: 6)
     linenumber   DMLINENO      (ushort: 14)      <--- key
     range        DMUNS4        (ushort: 4)       <--- key
 (a) oaff3        DMMC_BOOL     (enum: 2)
     oaff4        DMUSHORT      (ushort)
     excpt0       DMNRAEXCPT    (struct)
         occ          DMUNS10       (ushort: 10)
 (b)     oaff1        DMMC_BOOL     (enum: 2)
 (c)     oaff2        DMMC_BOOL     (enum: 2)
 (d)     oaff3        DMMC_BOOL     (enum: 2)
         oaff4        DMUNS8        (ushort: 8)
         oaff5        DMUNS4        (ushort: 4)
 (e)     oaff6        DMMC_BOOL     (enum: 2)
 (f)     oaff7        DMMC_BOOL     (enum: 2)
     excpt1       DMNRAEXCPT    (struct)
         occ          DMUNS10       (ushort: 10)
 (g)     oaff1        DMMC_BOOL     (enum: 2)
 (h)     oaff2        DMMC_BOOL     (enum: 2)
 (i)     oaff3        DMMC_BOOL     (enum: 2)
         oaff4        DMUNS8        (ushort: 8)
         oaff5        DMUNS4        (ushort: 4)
 (j)     oaff6        DMMC_BOOL     (enum: 2)
 (k)     oaff7        DMMC_BOOL     (enum: 2)
     excpt2       DMNRAEXCPT    (struct)
         occ          DMUNS10       (ushort: 10)
 (l)     oaff1        DMMC_BOOL     (enum: 2)
 (m)     oaff2        DMMC_BOOL     (enum: 2)
 (n)     oaff3        DMMC_BOOL     (enum: 2)
         oaff4        DMUNS8        (ushort: 8)
         oaff5        DMUNS4        (ushort: 4)
```

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```
(o)     oaff6       DMMC_BOOL    (enum: 2)
(p)     oaff7       DMMC_BOOL    (enum: 2)
    excpt3      DMNRAEXCPT   (struct)
        occ         DMUNS10      (ushort: 10)
(q)     oaff1       DMMC_BOOL    (enum: 2)
(r)     oaff2       DMMC_BOOL    (enum: 2)
(s)     oaff3       DMMC_BOOL    (enum: 2)
        oaff4       DMUNS8       (ushort: 8)
        oaff5       DMUNS4       (ushort: 4)
(t)     oaff6       DMMC_BOOL    (enum: 2)
(u)     oaff7       DMMC_BOOL    (enum: 2)
    excpt4      DMNRAEXCPT   (struct)
        occ         DMUNS10      (ushort: 10)
(v)     oaff1       DMMC_BOOL    (enum: 2)
(w)     oaff2       DMMC_BOOL    (enum: 2)
(x)     oaff3       DMMC_BOOL    (enum: 2)
        oaff4       DMUNS8       (ushort: 8)
        oaff5       DMUNS4       (ushort: 4)
(y)     oaff6       DMMC_BOOL    (enum: 2)
(z)     oaff7       DMMC_BOOL    (enum: 2)
    excpt5      DMNRAEXCPT   (struct)
        occ         DMUNS10      (ushort: 10)
(A)     oaff1       DMMC_BOOL    (enum: 2)
(B)     oaff2       DMMC_BOOL    (enum: 2)
(C)     oaff3       DMMC_BOOL    (enum: 2)
        oaff4       DMUNS8       (ushort: 8)
        oaff5       DMUNS4       (ushort: 4)
(D)     oaff6       DMMC_BOOL    (enum: 2)
(E)     oaff7       DMMC_BOOL    (enum: 2)
    excpt6      DMNRAEXCPT   (struct)
        occ         DMUNS10      (ushort: 10)
(F)     oaff1       DMMC_BOOL    (enum: 2)
(G)     oaff2       DMMC_BOOL    (enum: 2)
(H)     oaff3       DMMC_BOOL    (enum: 2)
        oaff4       DMUNS8       (ushort: 8)
        oaff5       DMUNS4       (ushort: 4)
(I)     oaff6       DMMC_BOOL    (enum: 2)
(J)     oaff7       DMMC_BOOL    (enum: 2)
    excpt7      DMNRAEXCPT   (struct)
        occ         DMUNS10      (ushort: 10)
(K)     oaff1       DMMC_BOOL    (enum: 2)
(L)     oaff2       DMMC_BOOL    (enum: 2)
(M)     oaff3       DMMC_BOOL    (enum: 2)
        oaff4       DMUNS8       (ushort: 8)
        oaff5       DMUNS4       (ushort: 4)
(N)     oaff6       DMMC_BOOL    (enum: 2)
(O)     oaff7       DMMC_BOOL    (enum: 2)
    excpt8      DMNRAEXCPT   (struct)
        occ         DMUNS10      (ushort: 10)
(P)     oaff1       DMMC_BOOL    (enum: 2)
(Q)     oaff2       DMMC_BOOL    (enum: 2)
(R)     oaff3       DMMC_BOOL    (enum: 2)
        oaff4       DMUNS8       (ushort: 8)
        oaff5       DMUNS4       (ushort: 4)
```

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```
(S)     oaff6       DMMC_BOOL    (enum: 2)
(T)     oaff7       DMMC_BOOL    (enum: 2)
    excpt9      DMNRAEXCPT   (struct)
        occ         DMUNS10      (ushort: 10)
(U)     oaff1       DMMC_BOOL    (enum: 2)
(V)     oaff2       DMMC_BOOL    (enum: 2)
(W)     oaff3       DMMC_BOOL    (enum: 2)
        oaff4       DMUNS8       (ushort: 8)
        oaff5       DMUNS4       (ushort: 4)
(X)     oaff6       DMMC_BOOL    (enum: 2)
(Y)     oaff7       DMMC_BOOL    (enum: 2)
        User, Compacted and Stored Tuple Layout    DNRALST
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                   |           |                   |           |
 0 |       inwnpa      |   oaff1   |     officecode    |   oaff2   |
   |---------------+---------------+---------------+---------------|
   |                           |   |       |   |                   |
 4 |         linenumber        |***| range | a |*******************|
   |---------------+---------------+---------------+---------------|
   |                           |                                   |
 8 |             oaff4             |*********************************|
   |===============+===========  excpt0 ===========+===============|
   |                   |   |   |   |               |       |   |   |
12 |        occ        | b | c | d |     oaff4     | oaff5 | e | f |
   |===============+===========  excpt1 ===========+===============|
   |                   |   |   |   |               |       |   |   |
16 |        occ        | g | h | i |     oaff4     | oaff5 | j | k |
   |===============+===========  excpt2 ===========+===============|
   |                   |   |   |   |               |       |   |   |
20 |        occ        | l | m | n |     oaff4     | oaff5 | o | p |
   |===============+===========  excpt3 ===========+===============|
   |                   |   |   |   |               |       |   |   |
24 |        occ        | q | r | s |     oaff4     | oaff5 | t | u |
   |===============+===========  excpt4 ===========+===============|
   |                   |   |   |   |               |       |   |   |
28 |        occ        | v | w | x |     oaff4     | oaff5 | y | z |
   |===============+===========  excpt5 ===========+===============|
   |                   |   |   |   |               |       |   |   |
32 |        occ        | A | B | C |     oaff4     | oaff5 | D | E |
   |===============+===========  excpt6 ===========+===============|
   |                   |   |   |   |               |       |   |   |
36 |        occ        | F | G | H |     oaff4     | oaff5 | I | J |
   |===============+===========  excpt7 ===========+===============|
   |                   |   |   |   |               |       |   |   |
40 |        occ        | K | L | M |     oaff4     | oaff5 | N | O |
   |===============+===========  excpt8 ===========+===============|
   |                   |   |   |   |               |       |   |   |
44 |        occ        | P | Q | R |     oaff4     | oaff5 | S | T |
   |===============+===========  excpt9 ===========+===============|
   |                   |   |   |   |               |       |   |   |
48 |        occ        | U | V | W |     oaff4     | oaff5 | X | Y |
   |===============+===============+===============+===============|
```

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```
       ( 52 bytes )
domain alDNRALS   struct  (9 sub-attributes)
         inwnpa      .9.fake      (ushort: 10)
         oaff1       .10.fake     (ushort: 6)
         officecode  .11.fake     (ushort: 10)
         oaff2       .12.fake     (ushort: 6)
         linenumber  .13.fake     (ushort: 14)
         range       .14.fake     (ushort: 4)
 (a)     oaff3       .0fake       (enum)
         oaff4       unsigned short (ushort)
         excptn      .15.fake     (array [ 10 ] of .1fake )
             occ         .0.fake      (ushort: 10)
 (b)         oaff1       .0fake       (enum)
 (c)         oaff2       .0fake       (enum)
 (d)         oaff3       .0fake       (enum)
             oaff4       .1.fake      (ushort)
             oaff5       .2.fake      (ushort: 4)
 (e)         oaff6       .0fake       (enum)
 (f)         oaff7       .0fake       (enum)
         Structure Layout      alDNRALS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |           |                   |           |
  0 |       inwnpa      |   oaff1   |      officeco     |   oaff2   |
    |---------------+---------------+---------------+---------------|
    |                           |   |       |   |                   |
  4 |          linenumb         |***| range | a |*******************|
    |---------------+---------------+---------------+---------------|
    |                           |                                   |
  8 |             oaff4         |***********************************|
    |===============+========== excptn[0] ==========+===============|
    |                   |   |   |   |               |       |   |   |
 12 |        occ        | b | c | d |     oaff4     | oaff5 | e | f |
    |===============+========== excptn[1] ==========+===============|
    |                   |   |   |   |               |       |   |   |
 16 |        occ        | b | c | d |     oaff4     | oaff5 | e | f |
    |===============+========== excptn[2] ==========+===============|
    |                   |   |   |   |               |       |   |   |
 20 |        occ        | b | c | d |     oaff4     | oaff5 | e | f |
    |===============+========== excptn[3] ==========+===============|
    |                   |   |   |   |               |       |   |   |
 24 |        occ        | b | c | d |     oaff4     | oaff5 | e | f |
    |===============+========== excptn[4] ==========+===============|
    |                   |   |   |   |               |       |   |   |
 28 |        occ        | b | c | d |     oaff4     | oaff5 | e | f |
    |===============+========== excptn[5] ==========+===============|
    |                   |   |   |   |               |       |   |   |
 32 |        occ        | b | c | d |     oaff4     | oaff5 | e | f |
    |===============+========== excptn[6] ==========+===============|
    |                   |   |   |   |               |       |   |   |
 36 |        occ        | b | c | d |     oaff4     | oaff5 | e | f |
    |===============+========== excptn[7] ==========+===============|
    |                   |   |   |   |               |       |   |   |
```

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```
 40 |        occ        | b | c | d |     oaff4     | oaff5 | e | f |
    |===============+========== excptn[8] ==========+===============|
    |                   |   |   |   |               |       |   |   |
 44 |        occ        | b | c | d |     oaff4     | oaff5 | e | f |
    |===============+========== excptn[9] ==========+===============|
    |                   |   |   |   |               |       |   |   |
 48 |        occ        | b | c | d |     oaff4     | oaff5 | e | f |
    |===============+===============+===============+===============|
       ( 52 bytes )
```

## 4. Population Rules for RLdnralst

**Relation Description** RLdnralst
RLdnralst is for the exception list data for the DIOR Network Remote Access (NRA) feature.

**Attribute: inwnpa**

**Fullname:** INWATS NPA.

**Attribute Description** NPA (area code) of the toll-free number subscribed to this feature.

**Attribute: oaff1**

**Fullname:** 6-bit spare.

**Attribute Description** Unused.

**Attribute: officecode**

**Fullname:** Office Code.

**Attribute Description** Office Code (NXX) of the toll-free number subscribed to this feature.

**Attribute: oaff2**

**Fullname:** 6-bit spare.

**Attribute Description** Unused.

**Attribute: linenumber**

**Fullname:** Line number.

**Attribute Description** Line Number of the toll-free number subscribed to this feature.

**Attribute: range**

**Fullname:** Tuple number.

**Attribute Description** unique value to allow multiple tuples for the same toll-free number.

**Attribute: oaff3**

**Fullname:** tri-state boolean spare.

**Attribute Description** Unused.

**Attribute: oaff4**

**Fullname:** unsigned short spare.

**Attribute Description** Unused.

**Attribute: excpt[*]**

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**Fullname:** Exception list.

**Attribute Description** List of country codes from which the treatment is the opposite of the default treatment in the RLdnrarte tuple.

**Attribute: excpt[*].occ**

**Fullname:** Originating country code

**Attribute Description** Country code from which calls are given the opposite of the default treatment.

**Attribute: excpt[*].oaff1**

**Fullname:** Spare 1

**Attribute Description** Unused tri-state boolean spare.

**Attribute: excpt[*].oaff2**

**Fullname:** Spare 2

**Attribute Description** Unused tri-state boolean spare.

**Attribute: excpt[*].oaff3**

**Fullname:** Spare 3

**Attribute Description** Unused tri-state boolean spare.

**Attribute: excpt[*].oaff4**

**Fullname:** Spare 4

**Attribute Description** Unused 8-bit spare.

**Attribute: excpt[*].oaff5**

**Fullname:** Spare 5

**Attribute Description** Unused 4-bit spare.

**Attribute: excpt[*].oaff6**

**Fullname:** Spare 6

**Attribute Description** Unused tri-state boolean spare.

**Attribute: excpt[*].oaff7**

**Fullname:** Spare 7

**Attribute Description** Unused tri-state boolean spare.

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# DNRARTE

## 1. Description

This relation contains the DIOR Network Remote Access default treatment of Allow or Deny and the 7-digit routing number.

This relation is to have a distribution of FP (fixed partition), by inwnpa, officecode and feature of 'NRA' based on RLdehocsm.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 5000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
DNRARTE     relid = 2575  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     inwnpa       DMONPA       (ushort: 10)      <--- key
     oaff1        DMUNS6       (ushort: 6)
     officecode   DMINXX       (ushort: 10)      <--- key
     oaff2        DMUNS6       (ushort: 6)
     linenumber   DMLINENO     (ushort: 14)      <--- key
 (a) oaff3        DMMC_BOOL    (enum: 2)
     oaff4        DMUSHORT     (ushort)
     routingnum   DMDIG7       (array [ 7 ] of char )
 (b) deftrmt      DMINDETTMT   (enum: 1)
     excount      DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout    DNRARTE
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |           |                   |           |
  0 |       inwnpa      |   oaff1   |     officecode    |   oaff2   |
    |---------------+---------------+---------------+---------------|
    |                           |   |                               |
  4 |         linenumber        | a |             oaff4             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                           routingnum                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                               | |           |
 12 |                   routingnum                  |b|***********|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
 16 |    excount    |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population Rules for RLdnrarte

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**Relation Description** RLdnrarte
RLdnrarte is for the routing and default data for the DIOR Network Remote Access (NRA) feature.

**Attribute: inwnpa**
**Fullname:** INWATS NPA.

**Attribute Description** NPA (area code) of the toll-free number subscribed to this feature.

**Attribute: oaff1**
**Fullname:** 6-bit spare.

**Attribute Description** Unused.

**Attribute: officecode**
**Fullname:** Office Code.

**Attribute Description** Office Code (NXX) of the toll-free number subscribed to this feature.

**Attribute: oaff2**
**Fullname:** 6-bit spare.

**Attribute Description** Unused.

**Attribute: linenumber**
**Fullname:** Line number.

**Attribute Description** Line Number of the toll-free number subscribed to this feature.

**Attribute: oaff3**
**Fullname:** tri-state boolean spare.

**Attribute Description** Unused.

**Attribute: oaff4**
**Fullname:** unsigned short spare.

**Attribute Description** Unused.

**Attribute: routingnum**
**Fullname:** Routing number.

**Attribute Description** 7-digit routing number to the network subscribed to this feature.

**Attribute: deftrmt**
**Fullname:** Default treatment.

**Attribute Description** Default treatment for calls from countries not in the exception list to the network subscribed to this feature.

**Attribute: excount**
**Fullname:** Exception Count.

**Attribute Description** Count of exceptions in RLdnralst for this toll-free number.

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# DNU2EEC

## 1. Description

DNU sts1 to Neptune sts translator. Neptune is external hardware that performs echo cancellation for DNU ports. Neptune control is via an *Ethernet*™ link. This relation should not exist in an SM-2000. Neptune will only be associated with DNU trunks which only appear on SM-2000.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 96 |
| expected tuples in relation | 24 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
DNU2EEC     relid = 2935  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     dnu_s       DMUNITNO     (ushort: 8)    <--- key
     enet_sm     DMMODULE     (ushort: 8)
     elnk        DMELNKNUM    (uchar: 7)
 (a) dnu_sts1    DMSTS        (ushort: 4)    <--- key
 (b) epipe       DMEPIPENUM   (uchar: 2)
 (c) nept_sts    DMUNS2       (ushort: 2)
 (d) vt00        DMBOOL       (enum: 1)
 (e) vt04        DMBOOL       (enum: 1)
 (f) vt08        DMBOOL       (enum: 1)
 (g) vt12        DMBOOL       (enum: 1)
 (h) vt16        DMBOOL       (enum: 1)
 (i) vt20        DMBOOL       (enum: 1)
 (j) vt24        DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout    DNU2EEC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |               |       |   |   | |
  0 |     dnu_s     |    enet_sm    |     elnk      |   a   | b | c |d|
    |---------------+---------------+---------------+---------------|
    | | | | | | |                                                   |
  4 |e|f|g|h|i|j|***************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLdnu2eec

### Relation Description

DNU to Neptune External Echo Canceler Address

The keys are: dnu_s, dnu_sts1
Each tuple represents a DNU STS1(an STS1=28vts, a vt = a DS1) and identifies an Ethernet(R) address in order to access the associated Neptune echo canceler. The tuple also defines which Neptune packs are active - each active pack controlling 4 vts.

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**Attribute:**
dnu_s
**Fullname:**
DNU frame identification, a number between 0 and 7.
**Attribute Description:**
Tuple Key.
Identifies a DNU frame that is connected to an external Neptune echo canceler which is potentially active on one or more of its associated vt(ds1) entities identified by attributes dnu_sts1 and vt00 through vt24.

**Attribute:**
dnu_sts1
**Fullname:**
STS1 identification, a number between 0 and 11.
**Attribute Description:**
Tuple Key.
Each DNU frame has 12 STS1 entities - any one can be connected to any Neptune frame with the exception that on EXM type modules, the DNU and associated Ethernet(R) access to Neptune must coexist on the same SM.

**Attribute:**
enet_sm
**Fullname:**
Ethernet(R) Switch Module
**Attribute Description:**
Identifies the hosting SM for access to a Neptune Echo canceler controller, a number between 1 and 192.

**Attribute:**
epipe
**Fullname:**
Ethernet(R) Pipe
**Attribute Description:**
Number of the Ethernet(R) pipe on which this Ethernet(R) link resides. This should be a value between 0 and (SMDBMEPIPES - 1), inclusive.

**Attribute:**
elnk
**Fullname:**
Ethernet(R) link.
**Attribute Description:**
Number of the Ethernet(R) link. This should be a value between 0 and (SMDBMELNKS - 1), inclusive.

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**Attribute:**
nept_sts
**Fullname:**
Neptune STS port.
**Attribute Description:**
Identifies the Neptune STS port, a number between 0 and 2.

**Attribute:**
vt00
**Fullname:**
vt00 also applies to vt04..vt24.
Virtual Tributary 00 thru 24.
**Attribute Description:**
Identifies which circuit packs are equipped and actively performing echo canceler functions. Each pack affects 4 consecutive VTs (DS1s). ie: vt00 affects DS1=00,01,02,03.
See "Cadenza II Shelf Plug-Ins Layout For Neptune" here.

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# DPC_DPCI

## 1. Description

This relation provides basic information about a destination point code with an index to be used with the RLdpc_info relation for further information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 2000 |
| expected number of tuples | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| relation type | DBSTATIC |
| distribution | FP |
| trigger function | CCdpc_dpci |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
DPC_DPCI    relid = 2360  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL


    dpc         DMDPC        (ulong: 24)       <--- key
    mtxindx     DMUNS8       (ushort: 8)
    lnk_set     DMCLNK_SET   (ushort)
    dpcindx     DMDPCI       (ushort: 11)
 (a) adjacent    DMBOOL       (enum: 1)
    rtcase      DMUNS9       (ushort: 9)
    lspcindx    DMUNS8       (ushort: 8)
    accpcindx   DMUNS8       (ushort: 8)
    gtpcindx    DMUNS8       (ushort: 8)
 (b) rmtinit_ssna  DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   DPC_DPCI
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                               |               |
 0 |                      dpc                      |    mtxindx    |
   |---------------+---------------+---------------+---------------|
   |                               |                     | |       |
 4 |            lnk_set            |       dpcindx       |a|*******|
   |---------------+---------------+---------------+---------------|
   |                 |             |               |               |
 8 |      rtcase     |*************|    lspcindx   |   accpcindx   |
   |---------------+---------------+---------------+---------------|
   |                | |                                            |
12 |    gtpcindx   |b|********************************************|
   |---------------+---------------+---------------+---------------|
      ( 16 bytes )
```

## 4. Population rules for RLdpc_dpci

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**Relation Description**

Destination point code index mapping

This relation provides basic information about a destination point code with an index to the RLdpc_info relation which provides more information.

**Attribute:**
dpc
**Fullname:**
Destination point code
**Attribute Description:**
The destination point code is an arbitrary number which is assigned to an office in the signaling network.

**Attribute:**
lnk_set
**Fullname:**
Link set/Combined Link set
**Attribute Description:**
This attribute represents the link set or combined link set that is normally used for reaching this DPC.

**Attribute:**
dpcindx
**Fullname:**
Destination point code index
**Attribute Description:**
An index into RLdpc_info relation which lists all DPC's.

**Attribute:**
rtcase
**Fullname:**
routing case index
**Attribute Description:**
The routing case index attribute is used as index for RLrtcase relation. It is meaningful only when Gl_rmrte equals DBYES.

**Attribute:**
mtxindx
**Fullname:**
STP OPC Policing Matrix Index
**Attribute Description:**
The STP OPC policing matrix index is a sequential number which is assigned to the DPC when this DPC is being policed.

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**Attribute:**
adjacent
**Fullname:**
Adjacent Point Code Flag
**Attribute Description:**
The adjacent attribute is a boolean bit used to indicate whether the DPC (key) is an APC. The bit is set to DBYES if the DPC is an APC and DBNO is the DPC is a Non-Adjacent Point Code.

**Attribute:**
lspcindx
**Fullname:**
Incoming Linkset/DPC Policing Index
**Attribute Description:**
The attribute, lspcindx, will be set to a non-zero value when the DPC associated with the tuple is being policed by the ILS/DPC Policing Feature

**Attribute:**
accpcindx
**Fullname:**
MTP Accounting Point Code Index
**Attribute Description:**
The attribute, accpcindx, will be used to indicate the Point Code (key) is being accounted for by the MTP Accounting Feature

**Attribute:**
gtpcindx
**Fullname:**
SCCP Accounting Point Code Index
**Attribute Description:**
The attribute, gtpcindx, will be used to indicate the Point Code (key) is being accounted for by the SCCP Accounting Feature

**Attribute:**
rmtinit_ssna
**Fullname:**
SCCP Remote Init SSN Allowed
**Attribute Description:**
After a remote init/restart, the states of the SSNs at this DPC are initialized as Allowed, if the value of this parameter is DBYES and lclinit_spec has the value DBYES. If the value is DBNO and lclinit_spec is DBYES then they are initialized as prohibited.

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```
        If lclinit_spec is DBNO then the values are calculated based
        upon sccp_type. See also attribute lclinit_spec of RLgsm_net.

Defines:
        "db/RLdpc_info.h",
        "ccs/CCc7_param.h"
```

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# DPC_INFO

## 1. Description

This relation provides more detailed information about a destination point code.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 2000 |
| expected number of tuples | 256 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCdpc_info |
| insert trigger | DBNO |
| update trigger | DBYES |
| delete trigger | DBNO |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
DPC_INFO    relid = 2361  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     dpcindx     DMDPCI       (ushort: 11)       <--- key
     apcindx     DMUNS8       (ushort: 8)
     olo1_pc     DMDPCARRAY   (ulong)
     olo2_pc     DMDPCARRAY   (ulong)
     olo3_pc     DMDPCARRAY   (ulong)
     olo4_pc     DMDPCARRAY   (ulong)
     altls1      DMCLNK_SET   (ushort)
     altls2      DMCLNK_SET   (ushort)
     altls3      DMCLNK_SET   (ushort)
     altls4      DMCLNK_SET   (ushort)
     olomask     DMUNS4       (ushort: 4)
 (a) olo_id      DMOLOID      (ushort: 3)
     polindx     DMUNS9       (ushort: 9)
     num_evencic  DMUNS13      (ushort: 13)
     num_oddcic  DMUNS13      (ushort: 13)
 (b) stprte      DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout   DPC_INFO
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |         |                 |                |
  0 |       dpcindx         |*********|    apcindx      |****************|
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  4 |                             olo1_pc                             |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  8 |                             olo2_pc                             |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 12 |                             olo3_pc                             |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
```

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```
 16 |                           olo4_pc                             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 20 |             altls1            |             altls2            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 24 |             altls3            |             altls4            |
    |---------------+---------------+---------------+---------------|
    |       |     |                 |                         |     |
 28 |olomask|  a  |     polindx     |       num_evencic       |*****|
    |---------------+---------------+---------------+---------------|
    |                         | |                                   |
 32 |        num_oddcic       |b|***********************************|
    |---------------+---------------+---------------+---------------|
      ( 36 bytes )
domain alDPC_IN   struct  (10 sub-attributes)
     dpcindx     .7.fake      (ushort: 11)
     apcindx     .8.fake      (ushort)
     olo_pcs     .9.fake      (array [ 4 ] of unsigned long )
     altls       .10.fake     (array [ 4 ] of unsigned short )
     olomask     .11.fake     (ushort: 4)
(a)  olo_id      .12.fake     (ushort: 3)
     polindx     .13.fake     (ushort: 9)
     num_evencic  .14.fake     (ushort: 13)
     num_oddcic  .15.fake     (ushort: 13)
(b)  stprte      .0fake       (enum)
         Structure Layout      alDPC_IN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |         |               |               |
  0 |       dpcindx         |*********|    apcindx    |***************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           olo_pcs                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
  8 |                           olo_pcs                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 12 |                           olo_pcs                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 16 |                           olo_pcs                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                            altls                              |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 24 |                            altls                              |
    |---------------+---------------+---------------+---------------|
    |       |     |                 |                         |     |
 28 |olomask|  a  |     polindx     |         num_even        |*****|
    |---------------+---------------+---------------+---------------|
```

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```
    |                          | |                                    |
 32 |          num_oddc        |b|************************************|
    |--------------+--------------+--------------+--------------|
       ( 36 bytes )
```

## 4. Population Rules for RLdpc_info

**Relation Description** Destination point code information
This relation provides detailed information about a national and international SS7 destination point code.

**Attribute: dpcindx**

**Fullname:** Destination point code index.

**Attribute Description** The index for this particular DPC.

**Attribute: num_evencic**

**Fullname:** Even numbered circuit identification code.

**Attribute Description** The number of cics that are populated in the RLlab7_sm or RLlab7sm relation (depending on which is populated) for this given dpcindx that are even numbered.

**Attribute: num_oddcic**

**Fullname:** Odd numbered circuit identification code

**Attribute Description** The number of cics that are populated in the RLlab7_sm or RLlab7sm relation (depending on which is populated) for this given dpcindx that are odd numbered.

**Attribute: apcindx**

**Fullname:** Adjacent point code index.

**Attribute Description** An index into the listing of all APC's if the DPC being defined is adjacent. (that is, has signaling links directly connected to it.)

**Attribute: olo1_pc**

**Fullname:** Other licensed operator #1 point code

**Attribute Description** This attribute is a point code assigned by OLO1.

**Attribute: olo2_pc**

**Fullname:** Other licensed operator #2 point code.

**Attribute Description** This attribute is a point code assigned by OLO2.

**Attribute: olo3_pc**

**Fullname:** Other licensed operator #3 point code.

**Attribute Description** This attribute is a point code assigned by OLO3.

**Attribute: olo4_pc**

**Fullname:** Other licensed operator #4 point code

**Attribute Description** This attribute is a point code assigned by OLO4.

**Attribute: altls1**

**Fullname:** First alternate link set or combined link set

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**Attribute Description** This attribute must contain the link set number or combined link set number which is to be considered the first alternate link set or first alternate combined link set used to carry signaling traffic to the destination.

**Attribute: altls2**

**Fullname:** Second alternate link set or combined link set.

**Attribute Description** This attribute must contain the link set number or combined link set number which is to be considered the second alternate link set or second alternate combined link set used to carry signaling traffic to the destination.

**Attribute: altls3**

**Fullname:** Third alternate link set or combined link set

**Attribute Description** This attribute must contain the link set number or combined link set number which is to be considered the third alternate link set or third alternate combined link set used to carry signaling traffic to the destination.

**Attribute: altls4**

**Fullname:** Fourth alternate link set

**Attribute Description** This attribute must contain the link set number which is to be considered the fourth alternate link set used to carry signaling traffic to the destination.

When Gl_rmrte equals DBYES then altls4 is not used to route messages and, this attribute is 0 for all tuples in RLdpc_info relation.

**Attribute: polindx**

**Fullname:** Policing index

**Attribute Description** If the DPC is being policed then populate with the next policing index value available from RLindx.

**Attribute: olo_id**

**Fullname:** Other licensed operator identifier.

**Attribute Description** This attribute is populated with the olo network number if the DPC is within an adjacent olo network.

Populate with the number ( 1-4 ) which is assigned to the Other Licensed Operator (OLO) which owns the DPC.

**Attribute: olomask**

**Fullname:** Other licensed operator mask

**Attribute Description** This attribute is used to administer which OLO's have point codes defined for the destination

**Attribute: stprte**

**Fullname:** Signal transfer point routing.

**Attribute Description** This attribute specifies if this office can act as an STP for the destination point code. It will have a value of DBYES if it can act as an STP, and a value of DBNO if it can not act as an STP. If this attribute is set to DBNO, TFP's and TFA's relating to this Destination Point Code will not be sent. The value for this attribute will come directly from RC.

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# DPC_SSN

## 1. Description

This relation provides for SCCP a mapping from Destination Point Code and Network Number to at most 9 concerned subsystem numbers.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 4096 |
| expected number of tuples | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| foldtype | DBGC31 |
| permutation type | un_perm |

## 3. Field Layout

```
DPC_SSN     relid = 2397  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     dpc          DMPT_CODE     (ulong: 24)       <--- key
     net_num      DMUNS5        (ushort: 5)       <--- key
     ssn1         DMUNS8        (ushort: 8)
     ssn2         DMUNS8        (ushort: 8)
     ssn3         DMUNS8        (ushort: 8)
     ssn4         DMUNS8        (ushort: 8)
     ssn5         DMUNS8        (ushort: 8)
     ssn6         DMUNS8        (ushort: 8)
     ssn7         DMUNS8        (ushort: 8)
     ssn8         DMUNS8        (ushort: 8)
     ssn9         DMUNS8        (ushort: 8)
         User, Compacted and Stored Tuple Layout    DPC_SSN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |         |     |
  0 |                      dpc                      | net_num |*****|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |      ssn1     |      ssn2     |      ssn3     |      ssn4     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  8 |      ssn5     |      ssn6     |      ssn7     |      ssn8     |
    |---------------+---------------+---------------+---------------|
    |               |                                               |
 12 |      ssn9     |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
domain alDPC_SS   struct  (3 sub-attributes)
          dpc         .11.fake     (ulong)
          net_num     .12.fake     (ushort: 5)
          ssn         .13.fake     (array [ 9 ] of unsigned char )
         Structure Layout      alDPC_SS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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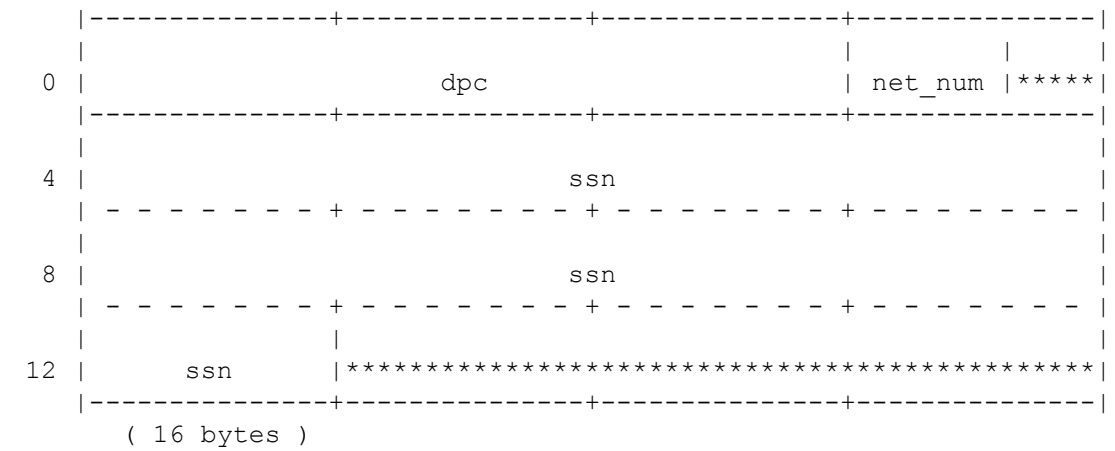


## 4. Population Rules for RLdpc_ssn

**Relation Description** Destination Point Code, Network Number to Subsystem Numbers Mapping Relation. This relation specifies all the subystem numbers on a particular destination point code and network number.

**Attribute: dpc**

**Fullname:** Destination Point Code

**Attribute Description** This attribute specifies a SS7 International, SS7 National, or CCSNA7 Point Code.

**Attribute: net_num**

**Fullname:** SCCP Network Number

**Attribute Description** This attribute provides a mapping from a SCCP Global SM to index called network number.

**Attribute: ssn1**

**Fullname:** Subsystem Number (1)

**Attribute Description** This attribute specifies a subsystem number on this DPC and Network Number.

**Attribute: ssn2**

**Fullname:** Subsystem Number (2)

**Attribute Description** This attribute specifies a subsystem that is on this DPC and Network Number.

**Attribute: ssn3**

**Fullname:** Subsystem Number (3)

**Attribute Description** This attribute specifies a subsystem number on this DPC and Network Number.

**Attribute: ssn4**

**Fullname:** Subsystem Number (4)

**Attribute Description** This attribute specifies a subsystem number on this DPC and Network Number.

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**Attribute: ssn5**

**Fullname:** Subsystem Number (5)

**Attribute Description** This attribute specifies a subsystem number on this DPC and Network Number.

**Attribute: ssn6**

**Fullname:** Subsystem Number (6)

**Attribute Description** This attribute specifies a subsystem number on this DPC and Network Number.

**Attribute: ssn7**

**Fullname:** Subsystem Number (7)

**Attribute Description** This attribute specifies a subsystem number on this DPC and Network Number.

**Attribute: ssn8**

**Fullname:** Subsystem Number (8)

**Attribute Description** This attribute specifies a subsystem number on this DPC and Network Number.

**Attribute: ssn9**

**Fullname:** Subsystem Number (9)

**Attribute Description** This attribute specifies a subsystem number on this DPC and Network Number.

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# DPCIND

## 1. Description

This relation provides for SCCP a mapping from a Destination Point Code, Network Number, and Subsystem Number to a index.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 4096 |
| expected number of tuples | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| foldtype | DBGC31 |

## 3. Field Layout

```
DPCIND      relid = 2398  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     dpc          DMPT_CODE     (ulong: 24)       <--- key
     ssn          DMUNS8        (ushort: 8)       <--- key
     num_gtts     DMUNL18       (ulong: 18)
     psn_index    DMUNS12       (ushort: 12)
 (a) prim_dest    DMBOOL        (enum: 1)
     num_bck      DMUNS12       (ushort: 12)
     net_num      DMUNS5        (ushort: 5)       <--- key
         User, Compacted and Stored Tuple Layout DPCIND
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                      dpc                      |      ssn      |
    |---------------+---------------+---------------+---------------|
    |                                 |                       | | |
  4 |               num_gtts          |       psn_index       |a|*|
    |---------------+---------------+---------------+---------------|
    |                         |       |         |                     |
  8 |         num_bck         |*******| net_num |*********************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLdpcind

**Relation Description** Destination Point Code, Subsystem Number, Network Number Mapping Relation. This relation provides a mapping from a Destination point code, subsystem number, and network number to a psn_index.

**Attribute: dpc**

**Fullname:** Destination Point Code

**Attribute Description** This attribute represents a SS7 International or SS7 National Destination Point Code.

**Attribute: ssn**

**Fullname:** Subsystem Number

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**Attribute Description** This attribute specifies a subsystem number on a particular destination point code switch.

**Attribute: net_num**

**Fullname:** SCCP Network Number

**Attribute Description** This attribute provides a mapping from a SCCP Global SM to an index called network number.

**Attribute: psn_index**

**Fullname:** Point Code/Subsystem Number/Network Number Index

**Attribute Description** This attribute specifies an index that represents a Destination Point Code, Subsystem Number and Network Number tuple.

**Attribute: num_gtts**

**Fullname:** Number of Global Title Translations to this DPC, SSN, and NETWORK NUMBER

**Attribute Description** This attribute is used by RC/V to determine if the user is allowed to delete this point code.

**Attribute: prim_dest**

**Fullname:** Defined as a Primary Destination

**Attribute Description** The attribute specifies whether this dpc/ssn/network number has yet to be defined as a primary destination.

**Attribute: num_bck**

**Fullname:** Number of times defined as Backup DPC

**Attribute Description** The attribute specifies the number of dpc/ssn/network number combinations that this tuple has been defined as a backup.

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# DPIDB_PT

## 1. Description

This relation describes the ports that are assigned particular nailed-up timeslots on DPIDBs connecting the PSIU and ISLU(2) or IDCU.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 48 |
| expected tuples in relation | 9 |
| density | 45 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | PCisdpidbmsk |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
DPIDB_PT    relid = 308   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     dpidb       DMCIRCUIT    (ushort)     <--- key
     key_slot    DMUCHAR      (uchar)     <--- key
     odb_min     DMUCHAR      (uchar)
     time00_slot  DMISDPORTS   (struct)
         port0       DMPORT       (ushort)
         port1       DMPORT       (ushort)
         port2       DMPORT       (ushort)
         port3       DMPORT       (ushort)
     time01_slot  DMISDPORTS   (struct)
         port0       DMPORT       (ushort)
         port1       DMPORT       (ushort)
         port2       DMPORT       (ushort)
         port3       DMPORT       (ushort)
     time02_slot  DMISDPORTS   (struct)
         port0       DMPORT       (ushort)
         port1       DMPORT       (ushort)
         port2       DMPORT       (ushort)
         port3       DMPORT       (ushort)
     time03_slot  DMISDPORTS   (struct)
         port0       DMPORT       (ushort)
         port1       DMPORT       (ushort)
         port2       DMPORT       (ushort)
         port3       DMPORT       (ushort)
     time04_slot  DMISDPORTS   (struct)
         port0       DMPORT       (ushort)
         port1       DMPORT       (ushort)
         port2       DMPORT       (ushort)
         port3       DMPORT       (ushort)
     time05_slot  DMISDPORTS   (struct)
         port0       DMPORT       (ushort)
         port1       DMPORT       (ushort)
```

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```
    port2       DMPORT       (ushort)
    port3       DMPORT       (ushort)
time06_slot  DMISDPORTS   (struct)
    port0       DMPORT       (ushort)
    port1       DMPORT       (ushort)
    port2       DMPORT       (ushort)
    port3       DMPORT       (ushort)
time07_slot  DMISDPORTS   (struct)
    port0       DMPORT       (ushort)
    port1       DMPORT       (ushort)
    port2       DMPORT       (ushort)
    port3       DMPORT       (ushort)
time08_slot  DMISDPORTS   (struct)
    port0       DMPORT       (ushort)
    port1       DMPORT       (ushort)
    port2       DMPORT       (ushort)
    port3       DMPORT       (ushort)
time09_slot  DMISDPORTS   (struct)
    port0       DMPORT       (ushort)
    port1       DMPORT       (ushort)
    port2       DMPORT       (ushort)
    port3       DMPORT       (ushort)
time10_slot  DMISDPORTS   (struct)
    port0       DMPORT       (ushort)
    port1       DMPORT       (ushort)
    port2       DMPORT       (ushort)
    port3       DMPORT       (ushort)
time11_slot  DMISDPORTS   (struct)
    port0       DMPORT       (ushort)
    port1       DMPORT       (ushort)
    port2       DMPORT       (ushort)
    port3       DMPORT       (ushort)
time12_slot  DMISDPORTS   (struct)
    port0       DMPORT       (ushort)
    port1       DMPORT       (ushort)
    port2       DMPORT       (ushort)
    port3       DMPORT       (ushort)
time13_slot  DMISDPORTS   (struct)
    port0       DMPORT       (ushort)
    port1       DMPORT       (ushort)
    port2       DMPORT       (ushort)
    port3       DMPORT       (ushort)
time14_slot  DMISDPORTS   (struct)
    port0       DMPORT       (ushort)
    port1       DMPORT       (ushort)
    port2       DMPORT       (ushort)
    port3       DMPORT       (ushort)
time15_slot  DMISDPORTS   (struct)
    port0       DMPORT       (ushort)
    port1       DMPORT       (ushort)
    port2       DMPORT       (ushort)
    port3       DMPORT       (ushort)
dpidb_mask  DMHEX16      (ushort)
    User, Compacted and Stored Tuple Layout   DPIDB_PT
```

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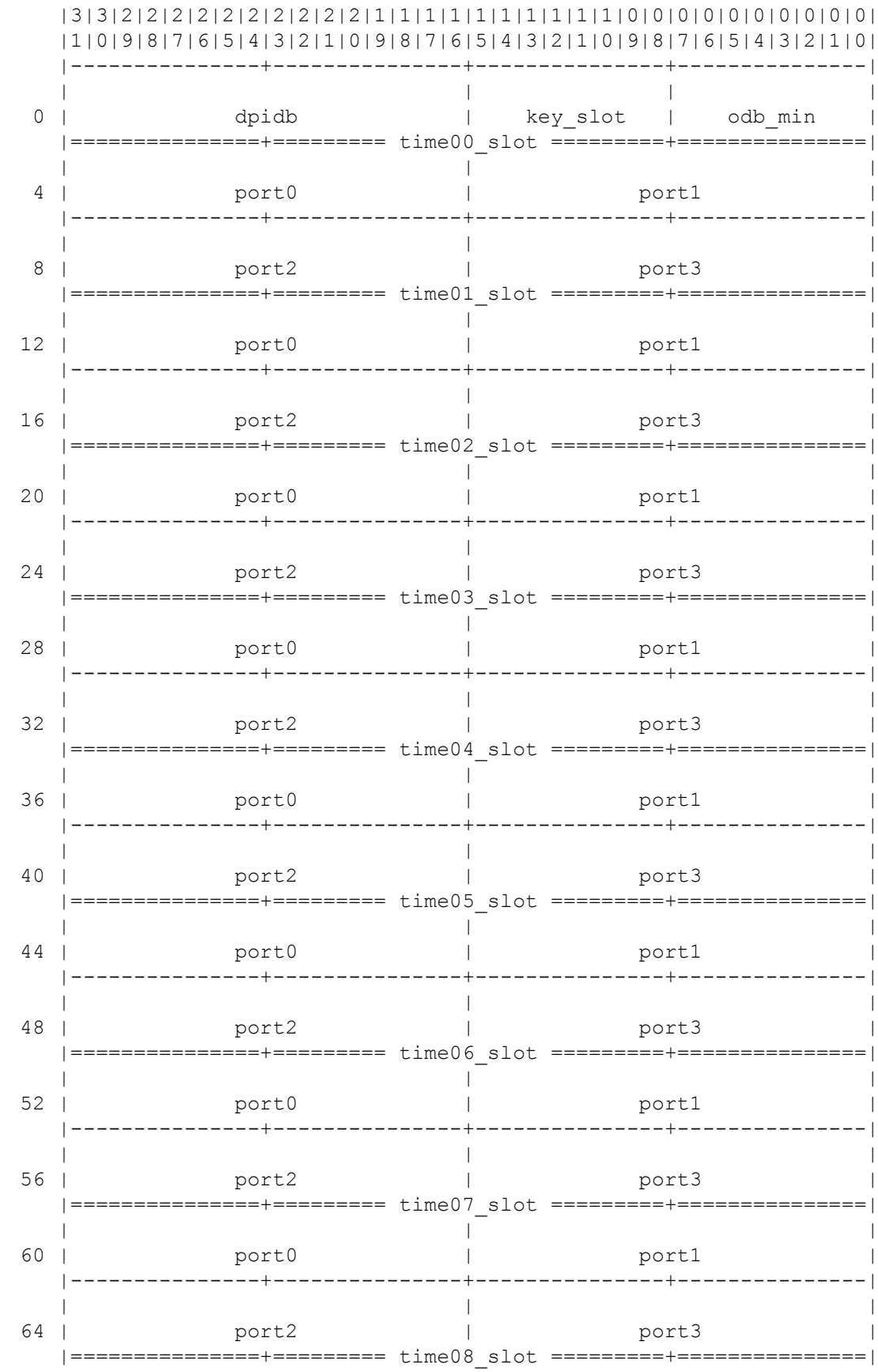


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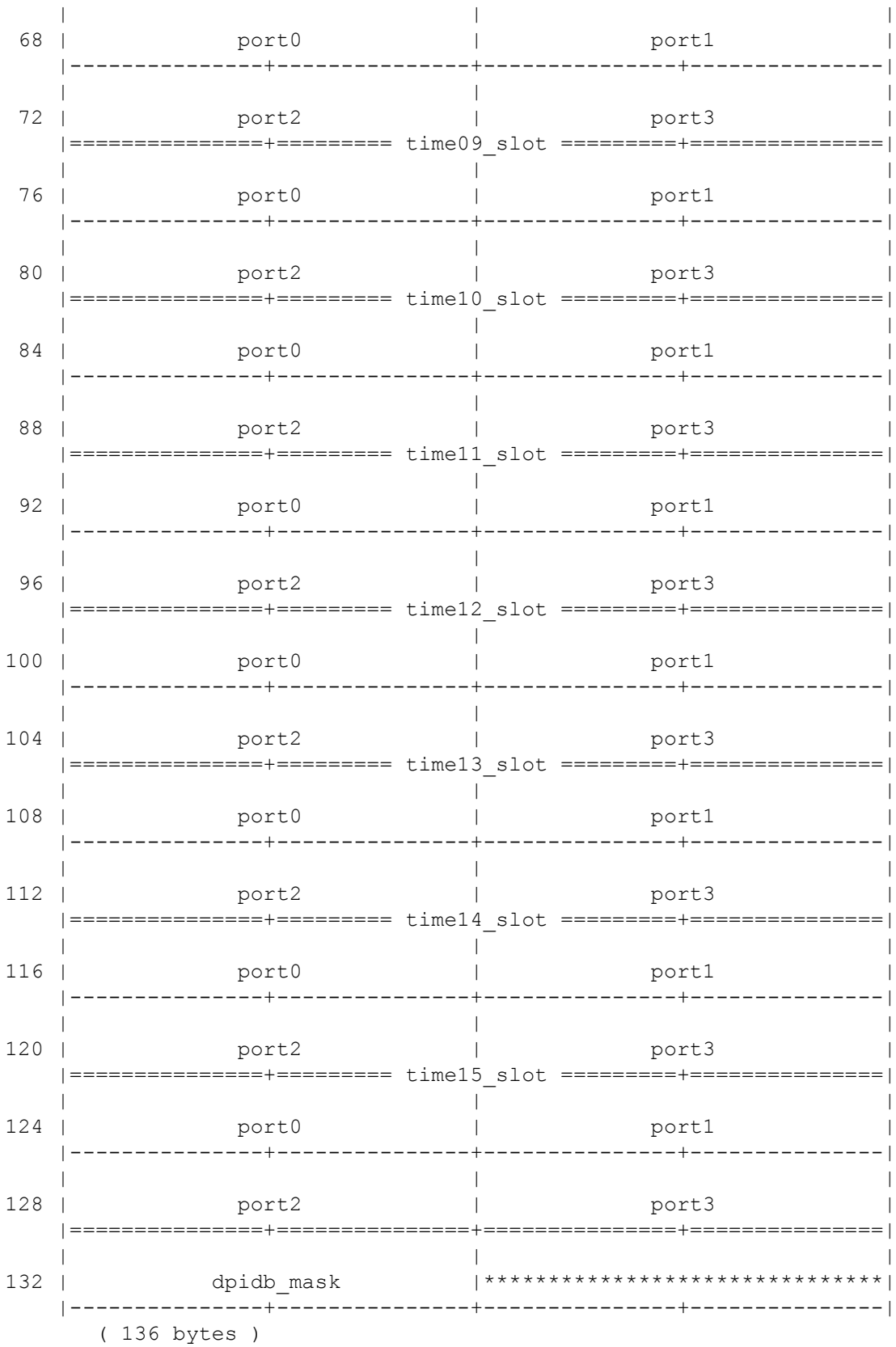


( 136 bytes )

```
domain alDPIDB_   struct  (5 sub-attributes)
          dpidb       unsigned short (ushort)
```

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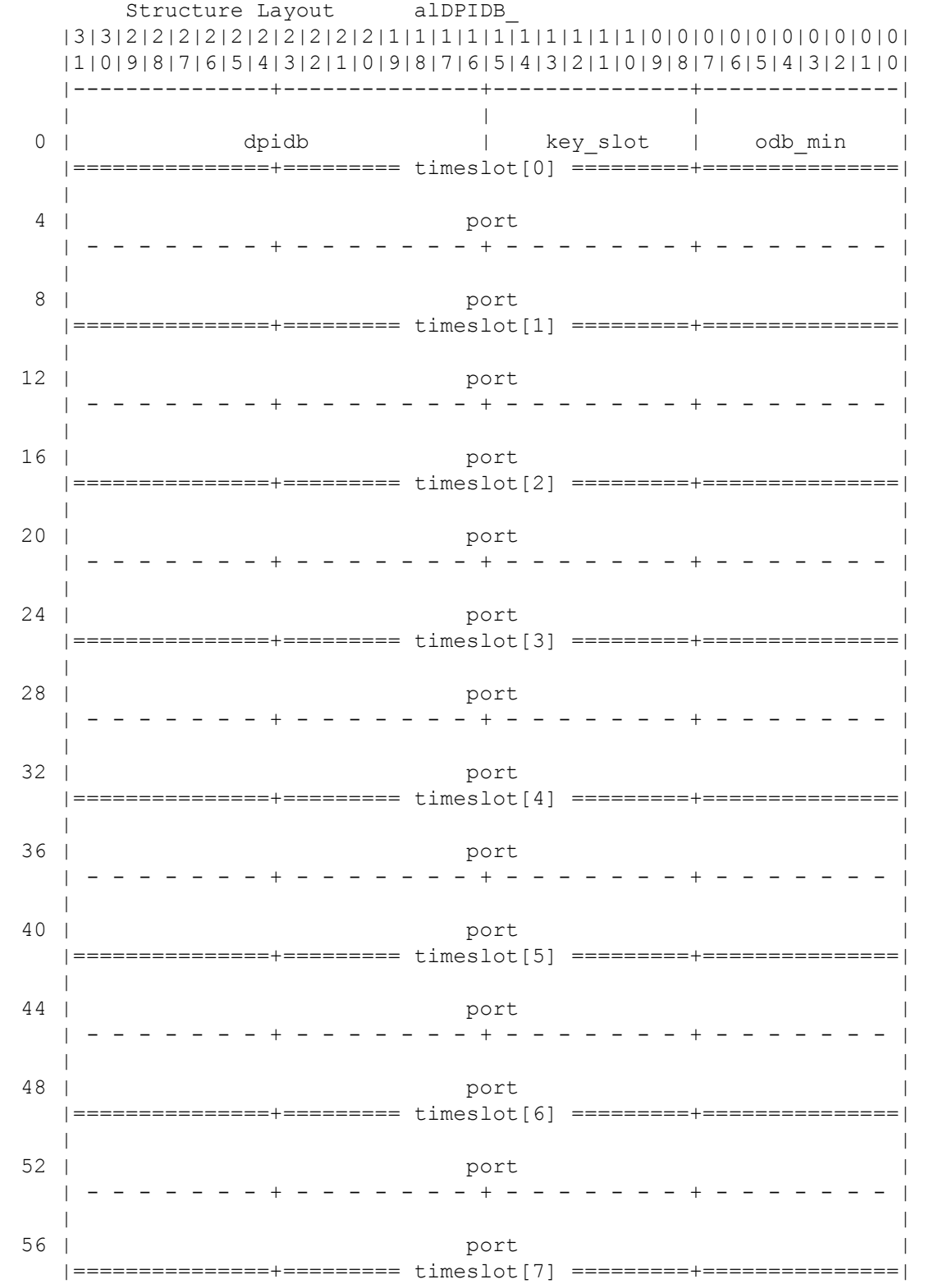
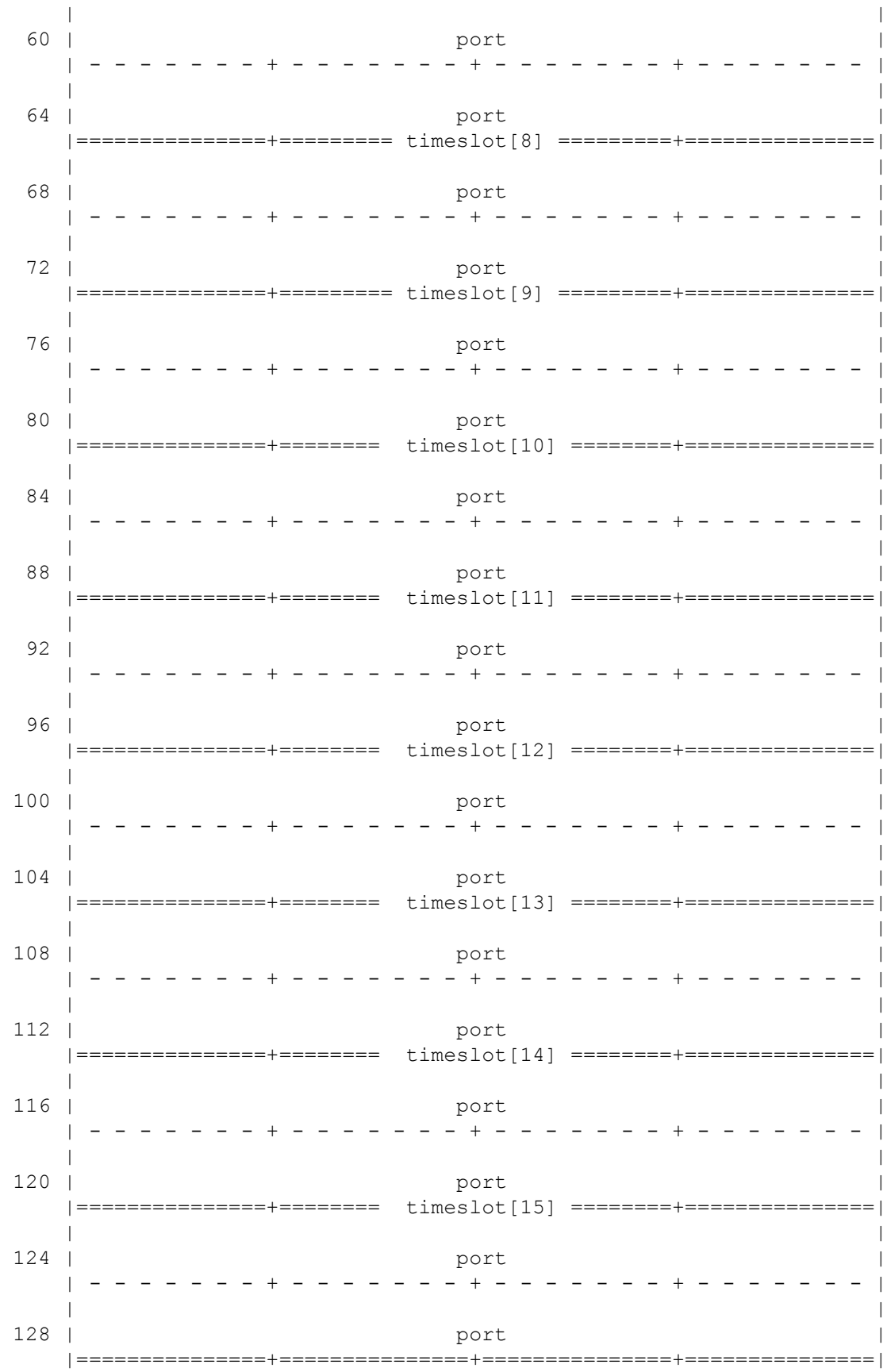
```
        key_slot    unsigned char (uchar)
        odb_min     unsigned char (uchar)
        timeslot    .1.fake      (array [ 16 ] of .1fake )
            port        .0.fake      (array [ 4 ] of unsigned short )
        dpidb_mask  unsigned short (ushort)
     Structure Layout      alDPIDB_
```



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```
    |                                |                                |
132 |            dpidb_ma            |********************************|
    |----------------+---------------+---------------+----------------|
       ( 136 bytes )
```

## 4. Population Rules for RLdpidb_pt

**Relation Description** Directly connected peripheral interface data bus.
Relation describes the ports that are assigned particular nailed-up timeslots on DPIDBs connecting the PSIU and ISLU(2) AIU or IDCU.

**Attribute: dpidb**

**Fullname:** Circuit name of the directly connected PIDB.

**Attribute Description** A corresponding tuple is contained in RLCKTDATA. Regardless of the eqstat of the PIDB, if it is contained in RLcktdata and is of pidbtype PCDPIDB, it should be contained in RLdpidb_pt.

**Attribute: key_slot**

**Fullname:** The beginning timeslot of this half of the DPIDB.

**Attribute Description** The beginning timeslot of this half of the DPIDB. Valid entries are 0, and 16, such as the DPIDB is divided into halves: timeslots 0-15, and 16-31. The keys 0 and 16 indicate which half of the DPIDB is being accessed. For each DPIDB, two entries should be contained in this relation.

**Attribute: odb_min**

**Fullname:** Minimum number of time slots that must be left unassigned.

**Attribute Description** This attribute indicates the min. number of time slots that must be left unassigned. This is so that ODB will have at least that many time slots available for use when the feature is used. Note that if the value is set to 0, then all time slots can be assigned for other purposes. In that case, this DPIDB cannot be used for ODB (the DPIDB cannot be assigned to any ODB user).

The two tuples that have the same DPIDB key (one with key_slot = 0 and the other with key_slot = 16) should be redundantly populated with odb_min.

**Attribute: time[*]_slot**

**Fullname:** Nth time slot.

**Attribute Description** a structure that contains the four possible ports that could be contained in the 0th DPIDB timeslot for this half of the DPIDB. (DPIDB timeslot 0 or 16 )

If a nailed-up path uses a full timeslot, then fill in all four entries with the single port name.

D-channels all sharing the same DPIDB timeslot must be assigned to the same 'dsl_group' in RLDSLEQUIP.

D-channels all sharing the same DPIDB timeslot AND connected to a PH that has rate adapt chips (PH 16), must be assigned to HDLCs on the same rate adapt chip. The HDLC number a D-channel is assigned is given by the 'member' attribute in relation RLdslequip. Members (0 - 5), (6 - 11), (12 - 15) reside on rate adapt chips 0, 1 and 2 respectively on PH 16. Therefore, if D-channels share the same DPIDB timeslot and are connected to a PH 16, all those D-channels must be assigned member numbers in a single one of the three sets (0 - 5), (6 -11) or (12 -15).

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The PH128 does not have the previous restriction because there are no Rata Adapt chips in the PH128 hardware.

Note that ISLU D-channels sharing the same DPIDB timeslot must all connect to the same LGC for an ISLU, or the same LG for ISLU2. In other words, all the ports in a particular DPIDB timeslot structure (see the following) must be ports on the same LGC for ISLU, or the same LG for ISLU2.

Note also that different DPIDBs on the same ISLU cannot connect to the same LGC timeslot. In other words, if DPIDB 'X', timeslot 'Z', is connected to a port on LGC 'Y', then DPIDB 'Q' cannot also use timeslot 'Z' for any ports on DPIDB 'Q' connected to LGC 'Y'. Got it?

Note also that different DPIDBs on the same ISLU(2) cannot connect to the same LG timeslot. In other words, if DPIDB 'X', timeslot 'Z', is connected to a port on LG 'Y', then DPIDB 'Q' cannot also use timeslot 'Z' for any ports on DPIDB 'Q' connected to LGC 'Y'.

As a cross-check, one should read the population rules for the RLislulgc 'dpidb_mask' attribute and the population rules for the RLdslequip attributes 'dpidb', 'timeslot', 'qts', 'ds1' (IDCU only), and 'ds1_ts' (IDCU only).

Note that AIU D-channels sharing the same DPIDB timeslot must all connect to the same AP for an AIU. In other words, all the ports in a particular DPIDB timeslot structure must be ports on the same AP for AIU.

A nailed-up DSL B-channel for X.25 packet switching always uses a full time slot.

**Attribute: time[*]_slot.port0**

**Fullname:** Port0.

**Attribute Description** The name of the port using the first quarter of the timeslot consisting of PCM bits 0 and 1. The appropriate DPIDB, timeslot and quarter timeslot should also be contained in RLDSLEQUIP attributes dpidb, timeslot and qts for this port.

Also, for ISLU ports, this timeslot should be masked in relation RLISLULGC attribute dpidb_mask for the parent lgc of port0.

Also, for ISLU2 ports, this timeslot should be masked in relation RLISLU2LG attribute dpidb_mask for the parent lg of port0.

For AIU ports, this timeslot should be masked in relation RLAIU2AP attribute dpidb_mask for the parent ap of port0.

Default value is 0 for unassigned quarter timeslots.

**Attribute: time[*]_slot.port1**

**Fullname:** Port1.

**Attribute Description** The name of the port using the second quarter of the timeslot consisting of PCM bits 2 and 3. The appropriate DPIDB, timeslot and quarter timeslot should also be contained in RLDSLEQUIP attributes dpidb, timeslot and qts for this port.

Also, for ISLU ports, this timeslot should be masked in relation RLISLULGC attribute dpidb_mask for the parent lgc of port1.

Also, for ISLU2 ports, this timeslot should be masked in relation RLISLU2LG attribute dpidb_mask for the parent lg of port1.

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For AIU ports, this timeslot should be masked in relation RLAIU2AP attribute dpidb_mask for the parent ap of port1.

Default value is 0 for unassigned quarter timeslots.

**Attribute: time[*]_slot.port2**

**Fullname:** Port2.

**Attribute Description** The name of the port using the third quarter of the timeslot consisting of PCM bits 4 and 5. The appropriate DPIDB, timeslot and quarter timeslot should also be contained in RLDSLEQUIP attributes dpidb, timeslot and qts for this port.

Also, for ISLU ports, this timeslot should be masked in relation RLISLULGC attribute dpidb_mask for the parent lgc of port2.

Also, for ISLU2 ports, this timeslot should be masked in relation RLISLU2LG attribute dpidb_mask for the parent lg of port2.

For AIU ports, this timeslot should be masked in relation RLAIU2AP attribute dpidb_mask for the parent ap of port2.

Default value is 0 for unassigned quarter timeslots.

**Attribute: time[*]_slot.port3**

**Fullname:** Port3.

**Attribute Description** The name of the port using the first quarter of the timeslot consisting of PCM bits 6 and 7. The appropriate DPIDB, timeslot and quarter timeslot should also be contained in RLDSLEQUIP attributes dpidb, timeslot and qts for this port.

Also, for ISLU ports, this timeslot should be masked in relation RLISLULGC attribute dpidb_mask for the parent lgc of port3.

Also, for ISLU2 ports, this timeslot should be masked in relation RLISLU2LG attribute dpidb_mask for the parent lg of port3.

For AIU ports, this timeslot should be masked in relation RLAIU2AP attribute dpidb_mask for the parent ap of port3.

Default value is 0 for unassigned quarter timeslots.

**Attribute: dpidb_mask**

**Fullname:** The status of each time slot on a DPIDB.

**Attribute Description** This attribute indicates the status of each time slot on a DPIDB. It is non-redundantly populated in the two tuples that have the same value in the key attribute dpidb. (one with key_slot=0, and other one with key_slot=16).

Bit 0 of the dpidb_mask corresponds to time slot 0 (or 16) if the key_slot of the tuple is 0 (or 16).

Bit 0 of the mask is on the right side of the field. For example, time slot 1 would be represented 0x02.

If a time slot is assigned to a nailed up connection, then the corresponding bit of dpidb_mask of the tuple should be masked as 0, otherwise it is masked as 1. Even if a time slot is not fully used, as long as it is used for nailed-up connection, the corresponding bit of dpidb_mask of the tuple should

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be masked as 0.

**Defines:** "db/DMcircuit.h"

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# DPRL_G

## 1. Description

This is the DAPRLFNL storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected tuples | 50 |
| memory type | DBPRAM |
| access type | DBACC_GK |
| distribution | FR |
| relation type | DBSTORAGE |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel reverse index | rlDPRL_I |

## 3. Field Layout

```
DPRL_G      relid = 2199  DBSTORAGE  DBACC_GK    DBPRAM    FR      NULL

     gkDPRL_G    DMGK14       (ulong: 14) <--- key, not stored
     annc_code   DMSSPACODE   (ushort: 16)
     ffcf4       DMUSHORT     (ushort)
     trignum     DMUNS8       (ushort: 8)
     lnp_trignum  DMUNS8       (ushort: 8)
     portdn_das  DMDA_TREE    (ushort: 7)
 (a) iddd_ind    DMBOOL       (enum: 1)
 (b) dfltrt      DMDFLTRT     (enum: 3)
 (c) nature      DMNATURE     (enum: 3)
 (d) bill_ind    DMBOOL       (enum: 1)
 (e) anibypass   DMBOOL       (enum: 1)
 (f) nodal_idx   DMUNS3       (ushort: 3)
 (g) esccode     DMBOOL       (enum: 1)
 (h) geoport     DMBOOL       (enum: 1)
 (i) ported_in   DMBOOL       (enum: 1)
 (j) home_lrn    DMBOOL       (enum: 1)
 (k) lrn_scrn    DMBOOL       (enum: 1)
 (l) dny_xfer    DMBOOL       (enum: 1)
 (m) o_bltrig_inh  DMBOOL       (enum: 1)
 (n) o_natrig_inh  DMBOOL       (enum: 1)
 (o) dn_prefd    DMBOOL       (enum: 1)
 (p) ffcf3       DMBOOL       (enum: 1)
 (q) gets_hpc    DMBOOL       (enum: 1)
     carrid      DMCARRID     (array [ 4 ] of char )
     spec_dn     DMBCD_DN     (struct)
         dn0          DMUNS4       (ushort: 4)
         dn1          DMUNS4       (ushort: 4)
         dn2          DMUNS4       (ushort: 4)
         dn3          DMUNS4       (ushort: 4)
         dn4          DMUNS4       (ushort: 4)
         dn5          DMUNS4       (ushort: 4)
         dn6          DMUNS4       (ushort: 4)
         dn7          DMUNS4       (ushort: 4)
         dn8          DMUNS4       (ushort: 4)
```

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```
        dn9         DMUNS4       (ushort: 4)
        dn10        DMUNS4       (ushort: 4)
        dn11        DMUNS4       (ushort: 4)
        dn12        DMUNS4       (ushort: 4)
        dn13        DMUNS4       (ushort: 4)
        dn14        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        User and Compacted Tuple Layout     DPRL_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
 0  |*********************************|          gkDPRL_G             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 4  |           annc_code           |              ffcf4            |
    |---------------+---------------+---------------+---------------|
    |               |               |             | |     |     | | |
 8  |    trignum    |  lnp_trignum  |  portdn_das |a|  b  |  c  |d|e|
    |---------------+---------------+---------------+---------------|
    |     | | | | | | | | | | | |   |                               |
12  |  f  |g|h|i|j|k|l|m|n|o|p|q|***|             carrid            |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
16  |             carrid            |*******************************|
    |===============+=========== spec_dn ===========+===============|
    |       |       |       |       |       |       |       |       |
20  |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
24  |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+===============+===============+===============|
       ( 28 bytes )

    annc_code   DMSSPACODE   (ushort: 16)
    ffcf4       DMUSHORT     (ushort)
    trignum     DMUNS8       (ushort: 8)
    lnp_trignum  DMUNS8       (ushort: 8)
    portdn_das  DMDA_TREE    (ushort: 7)
(a) iddd_ind    DMBOOL       (enum: 1)
(b) dfltrt      DMDFLTRT     (enum: 3)
(c) nature      DMNATURE     (enum: 3)
(d) bill_ind    DMBOOL       (enum: 1)
(e) anibypass   DMBOOL       (enum: 1)
(f) nodal_idx   DMUNS3       (ushort: 3)
(g) esccode     DMBOOL       (enum: 1)
(h) geoport     DMBOOL       (enum: 1)
(i) ported_in   DMBOOL       (enum: 1)
(j) home_lrn    DMBOOL       (enum: 1)
(k) lrn_scrn    DMBOOL       (enum: 1)
(l) dny_xfer    DMBOOL       (enum: 1)
(m) o_bltrig_inh  DMBOOL       (enum: 1)
(n) o_natrig_inh  DMBOOL       (enum: 1)
(o) dn_prefd    DMBOOL       (enum: 1)
```

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```
(p) ffcf3       DMBOOL       (enum: 1)
(q) gets_hpc    DMBOOL       (enum: 1)
    carrid      DMCARRID     (array [ 4 ] of char )
    spec_dn     DMBCD_DN     (struct)
        dn0         DMUNS4       (ushort: 4)
        dn1         DMUNS4       (ushort: 4)
        dn2         DMUNS4       (ushort: 4)
        dn3         DMUNS4       (ushort: 4)
        dn4         DMUNS4       (ushort: 4)
        dn5         DMUNS4       (ushort: 4)
        dn6         DMUNS4       (ushort: 4)
        dn7         DMUNS4       (ushort: 4)
        dn8         DMUNS4       (ushort: 4)
        dn9         DMUNS4       (ushort: 4)
        dn10        DMUNS4       (ushort: 4)
        dn11        DMUNS4       (ushort: 4)
        dn12        DMUNS4       (ushort: 4)
        dn13        DMUNS4       (ushort: 4)
        dn14        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
          Stored Tuple Layout   DPRL_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                         GK LINK FIELD                         |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |           annc_code           |             ffcf4             |
   |---------------+---------------+---------------+---------------|
   |               |               |             | |     |     | | |
 8 |    trignum    |  lnp_trignum  |  portdn_das |a|  b  |  c  |d|e|
   |---------------+---------------+---------------+---------------|
   |     | | | | | | | | | | | |   |                               |
12 |  f  |g|h|i|j|k|l|m|n|o|p|q|***|             carrid            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
16 |             carrid            |*******************************|
   |===============+=========== spec_dn ===========+===============|
   |       |       |       |       |       |       |       |       |
20 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
24 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+===============+===============+===============|
     ( 28 bytes )
```

## 4. Population rules for RLdprl_g

There are no population rules for this realtion.

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# DPRM_G

## 1. Description

This is the DAPRMFNL storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected tuples | 50 |
| memory type | DBPRAM |
| access type | DBACC_GK |
| distribution | FG |
| relation type | DBSTORAGE |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel reverse index | rlDPRM_I |

## 3. Field Layout

```
DPRM_G      relid = 2201  DBSTORAGE  DBACC_GK    DBPRAM    FG      NULL


    gkDPRM_G    DMGK14       (ulong: 14)       <--- key, not stored
    annc_code   DMSSPACODE   (ushort: 16)
    ffcf4       DMUSHORT     (ushort)
    trignum     DMUNS8       (ushort: 8)
    lnp_trignum  DMUNS8       (ushort: 8)
    portdn_das  DMDA_TREE    (ushort: 7)
(a) iddd_ind    DMBOOL       (enum: 1)
(b) dfltrt      DMDFLTRT     (enum: 3)
(c) nature      DMNATURE     (enum: 3)
(d) bill_ind    DMBOOL       (enum: 1)
(e) anibypass   DMBOOL       (enum: 1)
(f) esccode     DMBOOL       (enum: 1)
(g) geoport     DMBOOL       (enum: 1)
(h) ported_in   DMBOOL       (enum: 1)
(i) ignore_lnptn  DMBOOL       (enum: 1)
(j) home_lrn    DMBOOL       (enum: 1)
(k) lrn_scrn    DMBOOL       (enum: 1)
(l) dny_xfer    DMBOOL       (enum: 1)
(m) inh_dnt     DMBOOL       (enum: 1)
(n) o_bltrig_inh  DMBOOL       (enum: 1)
(o) o_natrig_inh  DMBOOL       (enum: 1)
(p) ffcf3       DMBOOL       (enum: 1)
(q) gets_hpc    DMBOOL       (enum: 1)
(r) rel_link    DMBOOL       (enum: 1)
    carrid      DMCARRID     (array [ 4 ] of char )
    spec_dn     DMBCD_DN     (struct)
        dn0         DMUNS4       (ushort: 4)
        dn1         DMUNS4       (ushort: 4)
        dn2         DMUNS4       (ushort: 4)
        dn3         DMUNS4       (ushort: 4)
        dn4         DMUNS4       (ushort: 4)
        dn5         DMUNS4       (ushort: 4)
        dn6         DMUNS4       (ushort: 4)
```

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```
        dn7         DMUNS4       (ushort: 4)
        dn8         DMUNS4       (ushort: 4)
        dn9         DMUNS4       (ushort: 4)
        dn10        DMUNS4       (ushort: 4)
        dn11        DMUNS4       (ushort: 4)
        dn12        DMUNS4       (ushort: 4)
        dn13        DMUNS4       (ushort: 4)
        dn14        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        User and Compacted Tuple Layout     DPRM_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 0 |*********************************|          gkDPRM_G             |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 4 |           annc_code             |             ffcf4             |
   |---------------+---------------+---------------+---------------|
   |               |               |             | |     |     | | |
 8 |    trignum    |  lnp_trignum  |  portdn_das |a|  b  |  c  |d|e|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | |     |                               |
12 |f|g|h|i|j|k|l|m|n|o|p|q|r|*****|             carrid            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                 |                               |
16 |             carrid              |*******************************|
   |===============+=========== spec_dn ===========+===============|
   |       |       |       |       |       |       |       |       |
20 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
24 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+===============+===============+===============|
      ( 28 bytes )


    annc_code   DMSSPACODE   (ushort: 16)
    ffcf4       DMUSHORT     (ushort)
    trignum     DMUNS8       (ushort: 8)
    lnp_trignum  DMUNS8       (ushort: 8)
    portdn_das  DMDA_TREE    (ushort: 7)
(a) iddd_ind    DMBOOL       (enum: 1)
(b) dfltrt      DMDFLTRT     (enum: 3)
(c) nature      DMNATURE     (enum: 3)
(d) bill_ind    DMBOOL       (enum: 1)
(e) anibypass   DMBOOL       (enum: 1)
(f) esccode     DMBOOL       (enum: 1)
(g) geoport     DMBOOL       (enum: 1)
(h) ported_in   DMBOOL       (enum: 1)
(i) ignore_lnptn  DMBOOL       (enum: 1)
(j) home_lrn    DMBOOL       (enum: 1)
(k) lrn_scrn    DMBOOL       (enum: 1)
(l) dny_xfer    DMBOOL       (enum: 1)
```

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```
(m) inh_dnt     DMBOOL       (enum: 1)
(n) o_bltrig_inh  DMBOOL       (enum: 1)
(o) o_natrig_inh  DMBOOL       (enum: 1)
(p) ffcf3       DMBOOL       (enum: 1)
(q) gets_hpc    DMBOOL       (enum: 1)
(r) rel_link    DMBOOL       (enum: 1)
    carrid      DMCARRID     (array [ 4 ] of char )
    spec_dn     DMBCD_DN     (struct)
        dn0         DMUNS4       (ushort: 4)
        dn1         DMUNS4       (ushort: 4)
        dn2         DMUNS4       (ushort: 4)
        dn3         DMUNS4       (ushort: 4)
        dn4         DMUNS4       (ushort: 4)
        dn5         DMUNS4       (ushort: 4)
        dn6         DMUNS4       (ushort: 4)
        dn7         DMUNS4       (ushort: 4)
        dn8         DMUNS4       (ushort: 4)
        dn9         DMUNS4       (ushort: 4)
        dn10        DMUNS4       (ushort: 4)
        dn11        DMUNS4       (ushort: 4)
        dn12        DMUNS4       (ushort: 4)
        dn13        DMUNS4       (ushort: 4)
        dn14        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
          Stored Tuple Layout   DPRM_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                          GK LINK FIELD                        |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |           annc_code           |             ffcf4             |
   |---------------+---------------+---------------+---------------|
   |               |               |             | |     |     | | |
 8 |    trignum    |  lnp_trignum  |  portdn_das |a|  b  |  c  |d|e|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | |     |                               |
12 |f|g|h|i|j|k|l|m|n|o|p|q|r|*****|             carrid            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
16 |             carrid            |*******************************|
   |===============+=========== spec_dn ===========+===============|
   |       |       |       |       |       |       |       |       |
20 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
24 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+===============+===============+===============|
     ( 28 bytes )
```

## 4. Population rules for RLdprm_g

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**Relation Description**

There are no population rules for this relation.

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# DR_CF

## 1. Description

Distinctive ringing constructed feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head page size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| ks key store | AUTO |

## 3. Field Layout

```
DR_CF       relid = 515   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     feat_id     DMMCC_FID    (ushort)  <--- key
     actvn       DMMC_ACTYP   (enum: 3)
 (a) featyp      DMDRFEATYP   (enum: 3)
 (b) dctvn       DMMC_DCTYP   (enum: 2)
 (c) chg_ring    DMBOOL       (enum: 1)
     filter      DMMCCLFLTR   (struct)
 (d)     intratg     DMBOOL       (enum: 1)
 (e)     intraoff    DMBOOL       (enum: 1)
 (f)     interoff    DMBOOL       (enum: 1)
 (g)     pf          DMBOOL       (enum: 1)
 (h)     attndnt     DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout  DR_CF
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |     |     |   | |             |
  0 |             feat_id             |actvn|  a  | b |c|*************|
    |===============+===========  filter ===========+===============|
    | | | | | |                                                     |
  4 |d|e|f|g|h|*****************************************************|
    |===============+===============+===============+===============|
       ( 8 bytes )
```

## 4. Population Rules for RLdr_cf

**Relation Description** Distinctive ringing constructed feature.

The distinctive ringing (DR) modular feature provides distinctive ringing cycles to the subscriber line.

Distinctive ringing indicates the origin of calls terminating to the subscriber.

**Attribute: feat_id**

**Fullname:** feature id

**Attribute Description** Verify that RLfacname has a tuple such that feat_id = RLfacname.facid, and

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RLfacname.class = FACBRCS for that tuple.

**Attribute: actvn**

**Fullname:** activation type

**Attribute Description**

```
ACTNONE     1) RLdr_cf.dctvn = DCTNONE or DCTCD
            2) RLdr_cf.bill_typ.flat = DBYES
ACTCD       1) RLdr_cf.dctvn = DCTCD
            2) Verify tuple exists in dial tree
               RLdaprlfnl or RLidp_dtre with
               'action' attribute = ACN_FTACT
               for the given dial code.
```

**Attribute: dctvn**

**Fullname:** deactivation type

**Attribute Description**

```
DCTNONE     1) RLdr_cf.actvn = ACTNONE
DCTCD       1) RLdr_cf.actvn = ACTCD or ACTNONE
            2) Verify tuple exists in dial tree
               RLdaprlfnl or RLidp_dtre with
               'action' attribute = ACN_FTDCT for
               the given dial code.
```

**Attribute: filter**

**Fullname:** party filtering for called, calling party

**Attribute Description** Party filtering for called, calling party.

**Attribute: filter.intratg**

**Fullname:** intra-terminal group

**Attribute Description** This attribute specifies whether intra-terminal calls can have DR (does not include attendant calls).

**Attribute: filter.intraoff**

**Fullname:** intra-office

**Attribute Description** This attribute specifies whether intra-office calls can have DR (does not include attendant or intra-terminal group calls).

**Attribute: filter.interoff**

**Fullname:** inter-office

**Attribute Description** This attribute specifies whether inter-office calls can have DR (does not include private facility access calls).

**Attribute: filter.pf**

**Fullname:** private facility

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**Attribute Description** This attribute specifies whether private facility access calls can have distinctive ringing.

**Attribute: filter.attndnt**

**Fullname:** attendant

**Attribute Description** This attribute specifies whether calls from an attendant can have DR.

**Attribute: featyp**

**Fullname:** calling party feature filtering

**Attribute Description** This attribute determines the type of feature using DR, only one of the following values may be used at any one time. The featyp values are as follows:

(1) DR_CFV This option allows for call forwarding variable (CFV) or call forwarding night service to apply distinctive ringing at the forward-to station. This feature is used primarily for night service, but is applicable to any call-forwarding feature that has the call forwarding modular feature attribute, FWDCOND set to BOTH.

(2) DR_CWO This option allows call waiting originating type calls from the attendant to apply distinctive ringing to the called party.

(3) DR_DCW This option allows dial call waiting type calls to apply distinctive ringing to the called party.

(4) DR_MWY This option allows for entry when an attendant sets up an added leg of a multiway call.

(5) DR_NONE This option indicates that distinctive ringing is not activated by any incoming feature but will automati- cally be active on all inter-office and intra-office calls but not on intra-terminal group calls.

**Attribute: chg_ring**

**Fullname:** ringing pattern

**Attribute Description** This attribute specifies whether the customer is allowed to change the ringing pattern.

NOTE- Following are per-line parameter for the DR feature that may be set during feature definition or during feature assignment.

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# DR_LTM

## 1. Description

Distinctive ringing feature per-line data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 108 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| density | 5 |
| foldtype | DBGC31 |
| corcable | DBYES |

## 3. Field Layout

```
DR_LTM      relid = 912   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     ltm_idx     DMLTM_IDX    (ulong: 16)       <--- key
     feat_id     DMFID        (ushort: 10)      <--- key
     dring       DMMCDRING    (enum: 4)
 (a) ltm_type    DMLTM_TYPE   (enum: 1) <--- key
     lead_module  DMMODULE     (ushort: 8)      <--- key
         User, Compacted and Stored Tuple Layout DR_LTM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                   |       | | |
  0 |            ltm_idx            |      feat_id      | dring |a|*|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  4 |  lead_module  |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLdr_ltm

**Relation Description** Distinctive ringing feature per_line data.

Distinctive ringing may not be assigned to lines which are members of Multiposition hunt groups or members of an ISDN Attendant hunt group (ISAT). If RLport_grp keyed by RLltm_port.port (if non-ISDN) or RLis_line.lead_module and RLis_line.lead_lport (if ISDN) exists and RLrt_mhg.htype is RTH_MUPH, then this line is a member of a MUPH group.

The following is a list of valid service classes for ports assigned this feature:

```
LINES
-----
FC_INDVDL
FC_ATTENDANT
FC_4WIRE_INDV
FC_PBX
FC_ISDN
SPECIAL ENTRY FOR GROUP PARAMETER ASSOCIATED WITH BFG
```

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BFG, capability G268, is intended to improve recent change (RC) response time and provide for SM memory reduction. It permits the creation of groups of BRCS features and parameters, and utilization of these groups by call processing. New group parameter relations will not be created, but will be populated in the existing relations. The group parameters will be identified by lead_module equal to zero. (see lead_module for details)

This relation has now two types of tuples distinguished primarily by LTM_TYPE.

1. The FIRST TYPE is the existing RLdr_ltm tuples which are group partitioned and remain unchanged (ltm_type = LTM_ISDN or LTM_OTHER).

2. The SECOND TYPE is the BFG GROUP PARAMETER tuple and is also group partitioned. This tuple is accessed by keys lead_module(equal to zero), ltm_index and ltm_type = LTM_ISDN(default for BFG) The BFG GROUP PARAMETER tuples were put in this relation to avoid creation of a new relation and minimize changes in the existing relation.

For BFG purposes, RLdr_ltm is a Group type. Therefore, only BFG Pseudo port tuple is permitted for the port assigned to a BFG. Individual port tuples may not be created for BFG assigned ports (when the feature is in the BFG). AT most one dr modular feature is allowed to be constructed inside a single BFG."

**Attribute: ltm_type**

**Fullname:** logical termination index type

**Attribute Description** IF RLdr_ltm.lead_module = zero RLdr_ltm.ltm_type is equal to LTM_ISDN then the tuple in the relation refers to BRCS feature grouping (BFG) group parameter tuples . See special entry for group parameter associated with BFG.

Dependency:
if LTM_ISDN, verify existence of tuple in RLis_line with this lead_module and ltm_idx. If RLdr_ltm.lead_module is equal to zero then a tuple must exist in RLis_line relation such that :

```
if RLfc_portyp.servclass = FC_ISDN,
RLdr_ltm.ltm_idx = RLis_line.bfgid
  RLdr_ltm.ltm_idx = RLfc_line.bfgid
```

**Attribute: lead_module**

**Fullname:** lead module

**Attribute Description** Dependency: Range value 0 allowed only for ltm_type = LTM_ISDN (these define the BFG case)

**Attribute: ltm_idx**

**Fullname:** logical termination index

**Attribute Description** Attribute ltm_idx has a domain range that starts with 0. The range in this relation starts with 1. As discussed in RLrc_smidx, the existence of an index implies the value 1 or greater. If no index is defined, RLrc_smidx would contain an ltm_idx value of 0 and no tuple would exist in this relation. Therefore, ltm_idx must be greater than 0 in this relation.

If lead_module is zero then ltm_idx range is 256-65535 for SM-2000 and 256-8191 for an SM.

**Attribute: feat_id**

**Fullname:** distinctive ringing constructed feature id

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**Attribute Description** Dependencies:

(1) Verify existence of tuple in RLdn_feats with same key (lead_module, ltm_type, ltm_idx). The RLdn_feats tuple must have an attribute, fid such that (mftype of MFDR + RLdr_ltm.feat_id) = RLdn_feats.ftent[n].fid. See the following NOTE.

(2) Verify existence of tuple in RLdr_cf with mftype of MFDR + RLdr_ltm.feat_id as key value. See the following NOTE.

NOTE: MFDR is defined in db/DMmftype.G. Adding mftype to feat_id before reading RLdn_feats or RLdr_cf is necessary because the feat_id in this relation is the unique 10 bits of the FID, it does not include the mftype. Whereas, RLdn_feats and RLdr_cf store the entire FID (mftype + 10 unique bits).

**Attribute: dring**

**Fullname:** distinctive ringing pattern

**Attribute Description** Identifies type of Distinctive Ringing pattern Dependencies: dring can have the values DR_E or DR_F if and only if RLfc_porttyp.servclass for this port = FC_4WIRE_INDV. Verify ltm_type == OTHER, read RLltm_port with this ltm_idx to obtain port. Next read FCporttyp and verify that servclass == FC_4WIRE_INDV.
SPECIAL CHECK FOR MLHG:
A MLHG line that is a MUPH line (RLrt_mhg.htype = RTH_MUPH) cannot have distinctive ringing.

```
If ltm_type == OTHER
       read RLltm_port with this ltm_idx to obtain port
       and party.
else
       read RLis_line with this lead_module and ltm_idx
       to obtain lead_lport. Next use lead_lport and
       lpt_type = LPT_ISDN to read RLlpt_pt to obtain the
       port and party.
Use port to read RLfc_porttyp.
If RLfc_porttyp.hunt == DBYES
       Use port and party to read RLport_grp to obtain grpnum.
       Use grpnum to read RLrt_mhg
       Verify that RLrt_mhg.htype != RTH_MUPH.
```

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# DR_OPTS

## 1. Description

Feature Definition's Options and Defaults

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |

## 3. Field Layout

```
DR_OPTS     relid = 563   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     feat_id     DMMCC_FID    (ushort)     <--- key
     dring       DMMCDRING    (enum: 4)
     actvn       DMMC_ACTYP   (enum: 3)
 (a) chg_ring    DMBOOL       (enum: 1)
 (b) featyp      DMDRFEATYP   (enum: 3)
 (c) dctvn       DMMC_DCTYP   (enum: 2)
     filter      DMMCCLFLTR   (struct)
 (d)     intratg     DMBOOL       (enum: 1)
 (e)     intraoff    DMBOOL       (enum: 1)
 (f)     interoff    DMBOOL       (enum: 1)
 (g)     pf          DMBOOL       (enum: 1)
 (h)     attndnt     DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout    DR_OPTS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |       |     | |     |   |     |
  0 |            feat_id            | dring |actvn|a|  b  | c |*****|
    |===============+===========  filter ===========+===============|
    | | | | | |                                                     |
  4 |d|e|f|g|h|*****************************************************|
    |===============+===============+===============+===============|
       ( 8 bytes )
```

## 4. Population Rules for RLdr_opts

**Relation Description** Distinctive Ringing Options
Feature definition's options and defaults.
Preconstructed Distinctive Ringing Features

```
/DR* - Wild Card Distinctive Ringing Feature
       filter.intratg = DBNO
       filter.intraoff = DBYES
       filter.interoff = DBYES
       filter.pf = DBYES
```

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```
       filter.attndnt = DBNO
       featyp = DR_NONE
       actvn = ACTNONE
       dctvn = DCTNONE
       chg_rng = DBNO
       dring = DR_A
/DRATT - Distinctive Ringing Attendant and Multi-way
         filter.intratg = DBNO
         filter.intraoff = DBNO
         filter.interoff = DBNO
         filter.pf = DBNO
         filter.attndnt = DBYES
         featyp = DR_MWY
         actvn = ACTNONE
         dctvn = DCTNONE
         chg_rng = DBNO
         dring = DR_B
/DRCWO - Distinctive Ringing Call Waiting Originating
         filter.intratg = DBYES
         filter.intraoff = DBNO
         filter.interoff = DBNO
         filter.pf = DBNO
         filter.attndnt = DBYES
         featyp = DR_CWO
         actvn = ACTNONE
         dctvn = DCTNONE
         chg_rng = DBNO
         dring = DR_C
/DRDCW - Distinctive Ringing Dial Call Waiting
         filter.intratg = DBYES
         filter.intraoff = DBNO
         filter.interoff = DBNO
         filter.pf = DBNO
         filter.attndnt = DBYES
         featyp = DR_DCW
         actvn = ACTNONE
         dctvn = DCTNONE
         chg_rng = DBNO
         dring = DR_C
/DRIC - Distinctive Ringing Incoming Only
        filter.intratg = DBNO
        filter.intraoff = DBYES
        filter.interoff = DBYES
        filter.pf = DBYES
        filter.attndnt = DBNO
        featyp = DR_NONE
        actvn = ACTNONE
        dctvn = DCTNONE
        chg_rng = DBNO
        dring = DR_B
/DRNS - Distinctive Ringing Night Service
        filter.intratg = DBNO
        filter.intraoff = DBNO
        filter.interoff = DBNO
```

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```
        filter.pf = DBNO
        filter.attndnt = DBYES
        featyp = DR_CFV
        actvn = ACTNONE
        dctvn = DCTNONE
        chg_rng = DBNO
        dring = DR_B
/DRPP - Distinctive Ringing Precedence and Preemption
        filter.intratg = DBYES
        filter.intraoff = DBYES
        filter.interoff = DBYES
        filter.pf = DBYES
        filter.attndnt = DBYES
        featyp = DR_PP
        actvn = ACTNONE
        dctvn = DCTNONE
        chg_rng = DBNO
        dring = DR_P"
```

**Attribute: feat_id**

**Fullname:** Distinctive Ringing Constructed Feature ID

**Attribute Description** Dependencies: Verify that RLfacname has a tuple such that feat_id = RLfacname.facid, and RLfacname.class = FACBRCS for that tuple.

**Attribute: actvn**

**Fullname:** Indicates Method of Activating MFC Features

**Attribute Description**

```
Enum. value        Dependency
ACTNONE     1) RLdr_opts.dctvn = DCTNONE or DCTCD
ACTCD       1) RLdr_opts.dctvn = DCTCD
            2) Verify tuple exists in dial tree
               RLdaprlfnl or RLidp_dtre with
               action attribute = ACN_FTACT
               for the given dial code.
```

**Attribute: dctvn**

**Fullname:** Indicates Method of Deactivating MFC Features

**Attribute Description**

```
Enum. value     Dependency
DCTNONE         1) RLdr_opts.actvn = ACTNONE
DCTCD           1) RLdr_opts.actvn = ACTCD or ACTNONE
                2) Verify tuple exists in dial tree
                   RLdaprlfnl or RLidp_dtre with
                   action attribute = ACN_FTDCT for
                   the given dial code.
```

**Attribute: filter**

**Fullname:** Party Filter

**Attribute Description** party filter (not a directory number filter) for called, calling party. Range: DBYES, DBNO for each structure member. Default: All pass (all set to DBYES, results in no filtering). Dependencies: None.

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**Attribute: filter.intratg**
**Fullname:** Intra-terminal Group

**Attribute Description** See RLdr_opts.filter description

**Attribute: filter.intraoff**
**Fullname:** Intra-office

**Attribute Description** See RLdr_opts.filter description

**Attribute: filter.interoff**
**Fullname:** Inter-office

**Attribute Description** See RLdr_opts.filter description.

**Attribute: filter.pf**
**Fullname:** Private Facility

**Attribute Description** See RLdr_opts.filter description.

**Attribute: filter.attndnt**
**Fullname:** Attendant

**Attribute Description** See RLdr_opts.filter description.

**Attribute: featyp**
**Fullname:** Calling Party Feature Type

**Attribute Description** Calling party feature type (indicates originating feature filter type).
Dependency: None

**Attribute: chg_ring**
**Fullname:** Change the Ringing Pattern

**Attribute Description** Indicates if customer is allowed to change the ringing pattern.
Dependencies: None.

**Attribute: dring**
**Fullname:** Type of Distinctive Ringing Pattern

**Attribute Description** Identifies type of Distinctive Ringing pattern.

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# DS_APP

## 1. Description

This relation contains the direct signaling application parameters.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| expected number of tuples | 4 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFR |
| application | CCS |
| relation type | DBSTATIC |
| trigger function | CCds_app |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| ks key store | AUTO |

## 3. Field Layout

```
DS_APP      relid = 895   DBSTATIC   DBACC_CIND  DBPRAM    LPFR    CCS
     ds_type     DMDS_APP     (enum: 5)     <--- key, not stored
     trans_type  DMTRANSTYP   (ushort: 8)
     ssn         DMSUBSYS     (ushort: 5)
         User and Compacted Tuple Layout     DS_APP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |          |                                                    |
  0 | ds_type |****************************************************|
    |---------------+---------------+---------------+---------------|
    |                |         |                                    |
  4 |   trans_type   |   ssn   |************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     trans_type  DMTRANSTYP   (ushort: 8)
     ssn         DMSUBSYS     (ushort: 5)
           Stored Tuple Layout   DS_APP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                |         |                                    |
  0 |   trans_type   |   ssn   |************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLds_app

**Relation Description** Direct signaling application parameters relation
This relation translates a direct signaling application type into a translation type and a subsystem number (this relation is only used by a direct signaling application providing a service that uses the Common Channel Signaling System 7 protocol). This relation is mainly used by the ccs subsystem.

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The ds_type enumeration, CCACND, is used by Analog Calling Name Delivery Special Feature (SFID40). The feature must be purchased and SFID40 must be set to populate a CCACND tuple.

WARNING!!
If any new ds_type enumerations are added, please contact the module owner of ct/CTdlndb. A change will be required to increase the maximum tuple size in the DLN.

**Attribute: ds_type**

**Fullname:** Direct signaling application type

**Attribute Description** The direct signaling application type that is providing a service that uses the CCS7 protocol. Valid values for ds_type are:

CCNS800 - - Number Services 800 (SSP)

CCLASS - - Local Area Signaling Services (LASS)

CCLIDB - - Line Interface Database (LIDB)

CCAT1 - - *ANSI*™ Type I Signaling to a Database (AT1)

CCLALT - - LIDB Alternate Destination (LALT)

CCAPSDN - - Software Defined Network (SDN)

CCDCIS - - Destination routed CCIS6 (DCIS)

CCPVN - - Private Virtual Network (PVN) service

CCLNACP - - Leased Network Action Point (LNACP).

CCCAS7 - - CCS7 Signaling to a CAS/NCP Database

CCICCV - - ICCV Signaling to a Foreign Database

CCISVM - - Inter-Switch Voice Messaging (ISVM)

CCACND - - Analog Calling Name Delivery (ACND).

CCAINR01 - - AIN Release 0.1B

CCNCD7 - - Network Call Denial (NCD)

CCONAI - - Network Access Interrupt for OSPS (ONAI)

CCTNAI - - Network Access Interrupt for Toll (TNAI)

CCAILS - - Automated Inward Line Screening (AILS)

CCOLNP - - OSPS Local Number Portability (OLNP)

5E8 ONLY:

The value "LALT" appears to the customer for the LIDB Alternate Destination although the value of ds_type is CCAT2. Through the RDL overlay process, this spare was used and RC/V displays "LALT". If accessed through odbe, the value "CCAT2" is used.

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**Attribute: trans_type**

**Fullname:** Translation type

**Attribute Description** The translation type to be used for the specific service the application is performing. It is included in the message to the CCS7 Network (external to the switch). It corresponds with the global title translation tables in the Signaling Transfer Point (STP) network for this service. If the ds_type is CCDCIS, the translation type field will be ignored. DCIS type direct signaling does not use a translation type.
If ds_type is CCCAS7 or CCICCV, then the value of trans_type in RLds_app is invalid. In this case, the value of trans_type in RLtcr_f[2-7]dv should be used instead. If ds_type is CCAT1, then the value of trans_type in RLds_app is invalid and the value of trans_type in RLtcr_f[2-7]dv should be used instead.

**Attribute: ssn**

**Fullname:** Subsystem number

**Attribute Description** The subsystem number assigned to this direct signaling application. For each ds_type, the subsystem number must be unique. It is included in the message to the CCS7 Network (external to the switch).

The valid range for attribute ssn is 0 - 22. The valid range of subsystem numbers is 232 - 254. After the database is read, it is up to the application to add the proper offset, 232, to the attribute ssn to get the valid subsystem range.

***NOTE:*** The reason the range of attribute ssn is 0 - 22 instead of 232 - 254 is that the range of ssn in the mirror relation, ds_ssn, is 0 - 22. In that relation ssn is the key and when the range is 0 - 22, it allows us to take advantage of indexed searching instead of linear searching. It also saves memory and search time. Also, we want to be consistent in the way the two relations are to be used.

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# DS_SSN

## 1. Description

This relation contains the direct signaling subsystem parameters.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| expected number of tuples | 4 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFR |
| application | CCS |
| relation type | DBSTATIC |
| trigger function | CCds_ssn |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
DS_SSN      relid = 896   DBSTATIC   DBACC_CIND  DBPRAM    LPFR    CCS
     ds_type     DMDS_APP     (enum: 5)
     ssn         DMSUBSYS     (ushort: 5)     <--- key
         User and Compacted Tuple Layout     DS_SSN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |         |         |                                           |
  0 | ds_type |   ssn   |*******************************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
     ds_type     DMDS_APP     (enum: 5)
     ssn         DMSUBSYS     (ushort: 5)     <--- key
           Stored Tuple Layout   DS_SSN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |         |         |                                           |
  0 | ds_type |   ssn   |*******************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLds_ssn

**Relation Description** Direct signaling subsystem parameters relation
This relation translates a direct signaling subsystem number into a direct signaling application type. This relation is mainly used by the ccs subsystem.

The ds_type enumeration, CCACND, is used by Analog Calling Name Delivery Special Feature (SFID40). The feature must be purchased and SFID40 must be set to populate with ds_type = CCACND.

WARNING!!
If the valid range of subsystem numbers changes, please contact the module owner of ct/CTdlndb. A change will be required to modify database code in the DLN.

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This relation is only used by a direct signaling application providing a service that uses the Common Channel Signaling System 7 protocol.

**Attribute: ssn**

**Fullname:** Subsystem number

**Attribute Description** The subsystem number assigned to this direct signaling application. It is included in the message from the CCS7 Network (external to the switch).

The valid range of subsystem numbers is 232 - 254. The valid range for the attribute ssn is 0 - 22. Before the database is read, it is up to the application to subtract the proper offset, 232, from the attribute subsystem number to get the valid index.

***NOTE:*** The reason the range of attribute ssn is 0 - 22 instead of 232 - 254 is that when ssn is the key we can take advantage of indexed searching instead of linear searching. It also saves memory and search time. The mirror relation, ds_app, also has an attribute ssn (not the key) and it will also have a range of 0 - 22, so that there is consistency in the way the two relations are used.

**Attribute: ds_type**

**Fullname:** Direct signaling application type

**Attribute Description** The direct signaling application type that is providing a service that uses the CCS7 protocol. Valid values for ds_type are:

CCNS800 - - Number Services 800 (SSP)

CCLASS - - Local Area Signaling Services (LASS)

CCLIDB - - Line Interface Database (LIDB)

CCAT1 - - *ANSI*™ Type I Signaling to a Database (AT1)

CCLALT - - LIDB Alternate Destination (LALT)

CCAPSDN - - Software Defined Network (SDN)

CCDCIS - - Destination routed CCIS6 (DCIS)

CCPVN - - Private Virtual Network (PVN) service

CCLNACP - - Leased Network Action Point (LNACP).

CCCAS7 - - CCS7 Signaling to a CAS/NCP Database

CCICCV - - ICCV Signaling to a Foreign Database

CCISVM - - Inter-Switch Voice Messaging (ISVM)

CCACND - - Analog Calling Name Delivery (ACND).

CCAINR01 - - AIN Release 0.1B

CCNCD7 - - Network Call Denial (NCD)

CCONAI - - Network Access Interrupt for OSPS (ONAI)

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CCTNAI - - Network Access Interrupt for Toll (TNAI)

CCAILS - - Automated Inward Line Screening (AILS)

CCOLNP - - OSPS Local Number Portability (OLNP)

5E8 ONLY:

The value "LALT" appears to the customer for the LIDB Alternate Destination although the value of ds_type is CCAT2. Through the RDL overlay process, this spare was used and RC/V displays "LALT". If accessed through odbe, the value "CCAT2" is used.

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# DS1_PT

## 1. Description

This relation associates nailed up DS1 timeslots to owning ports.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2720 |
| expected tuples in relation | 70 |
| density | 79 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | PCds1_pt_trg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | unperm |

## 3. Field Layout

```
DS1_PT      relid = 1729  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     ds1name     DMCIRCUIT    (ushort)     <--- key
     key_slot    DMUCHAR      (uchar)     <--- key
     ds0_0       DMISDPORTS   (struct)
         port0       DMPORT       (ushort)
         port1       DMPORT       (ushort)
         port2       DMPORT       (ushort)
         port3       DMPORT       (ushort)
     ds0_1       DMISDPORTS   (struct)
         port0       DMPORT       (ushort)
         port1       DMPORT       (ushort)
         port2       DMPORT       (ushort)
         port3       DMPORT       (ushort)
     ds0_2       DMISDPORTS   (struct)
         port0       DMPORT       (ushort)
         port1       DMPORT       (ushort)
         port2       DMPORT       (ushort)
         port3       DMPORT       (ushort)
     ds0_3       DMISDPORTS   (struct)
         port0       DMPORT       (ushort)
         port1       DMPORT       (ushort)
         port2       DMPORT       (ushort)
         port3       DMPORT       (ushort)
     ds0_4       DMISDPORTS   (struct)
         port0       DMPORT       (ushort)
         port1       DMPORT       (ushort)
         port2       DMPORT       (ushort)
         port3       DMPORT       (ushort)
     ds0_5       DMISDPORTS   (struct)
         port0       DMPORT       (ushort)
         port1       DMPORT       (ushort)
         port2       DMPORT       (ushort)
         port3       DMPORT       (ushort)
```

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```
    ds0_6       DMISDPORTS   (struct)
        port0       DMPORT       (ushort)
        port1       DMPORT       (ushort)
        port2       DMPORT       (ushort)
        port3       DMPORT       (ushort)
    ds0_7       DMISDPORTS   (struct)
        port0       DMPORT       (ushort)
        port1       DMPORT       (ushort)
        port2       DMPORT       (ushort)
        port3       DMPORT       (ushort)
    ds0_8       DMISDPORTS   (struct)
        port0       DMPORT       (ushort)
        port1       DMPORT       (ushort)
        port2       DMPORT       (ushort)
        port3       DMPORT       (ushort)
    ds0_9       DMISDPORTS   (struct)
        port0       DMPORT       (ushort)
        port1       DMPORT       (ushort)
        port2       DMPORT       (ushort)
        port3       DMPORT       (ushort)
    ds0_10      DMISDPORTS   (struct)
        port0       DMPORT       (ushort)
        port1       DMPORT       (ushort)
        port2       DMPORT       (ushort)
        port3       DMPORT       (ushort)
    ds0_11      DMISDPORTS   (struct)
        port0       DMPORT       (ushort)
        port1       DMPORT       (ushort)
        port2       DMPORT       (ushort)
        port3       DMPORT       (ushort)
    ds0mask     DMUNS12      (ushort: 12)
        User, Compacted and Stored Tuple Layout DS1_PT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |               |               |
 0 |            ds1name            |    key_slot   |***************|
   |===============+============ ds0_0 ============+===============|
   |                               |                               |
 4 |             port0             |             port1             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |             port2             |             port3             |
   |===============+============ ds0_1 ============+===============|
   |                               |                               |
12 |             port0             |             port1             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |             port2             |             port3             |
   |===============+============ ds0_2 ============+===============|
   |                               |                               |
20 |             port0             |             port1             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
```

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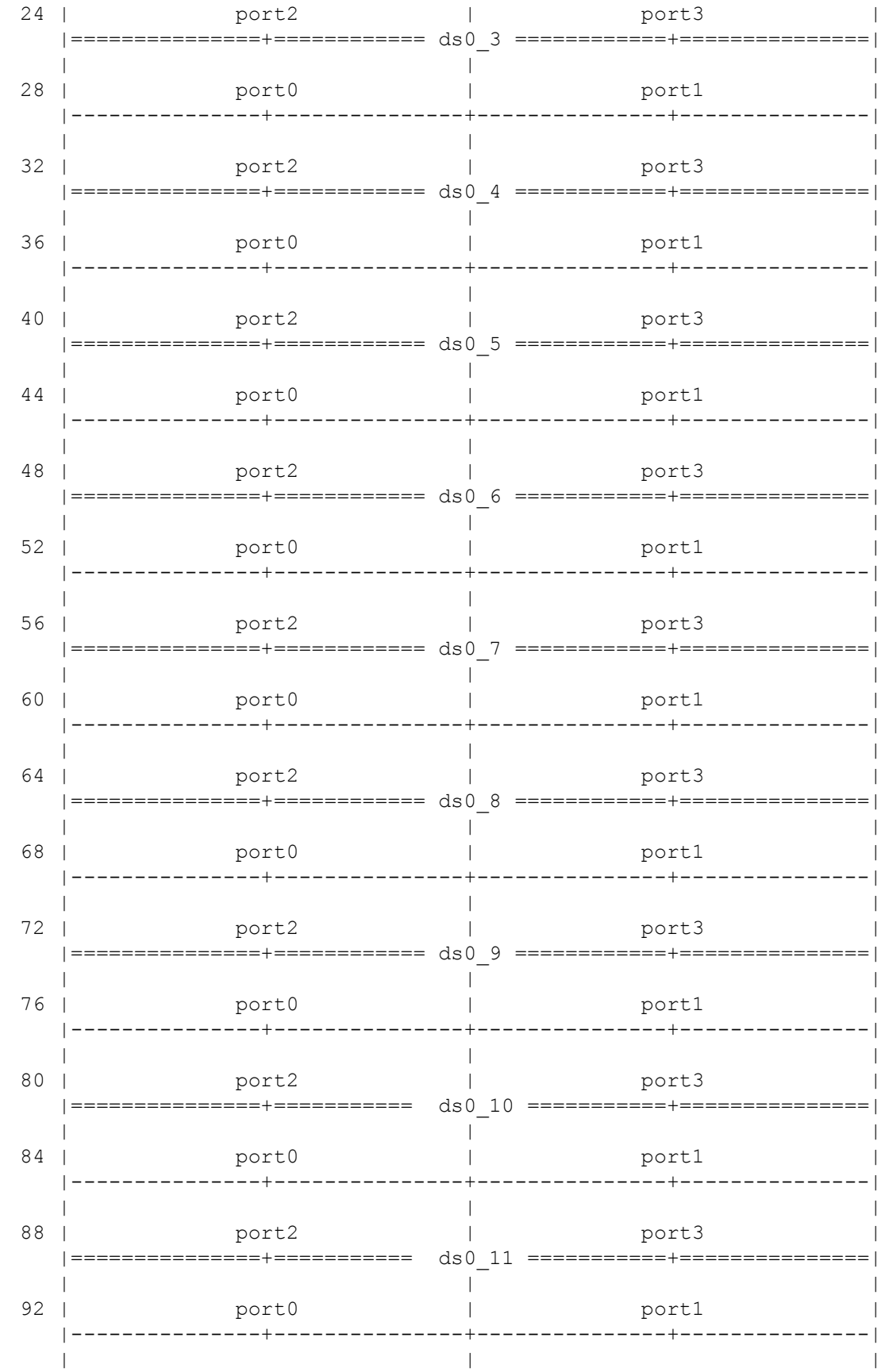


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```
 96 |             port2             |             port3             |
    |===============+===============+===============+===============|
    |                       |                                       |
100 |        ds0mask        |***************************************|
    |---------------+---------------+---------------+---------------|
      ( 104 bytes )
domain alDS1_PT   struct  (4 sub-attributes)
          ds1name     unsigned short (ushort)
          key_slot    unsigned char (uchar)
          ds0         .2.fake      (array [ 12 ] of .0fake )
              port0       unsigned short (ushort)
              port1       unsigned short (ushort)
              port2       unsigned short (ushort)
              port3       unsigned short (ushort)
          ds0mask     .3.fake      (ushort: 12)
        Structure Layout      alDS1_PT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |            ds1name            |    key_slot   |***************|
    |===============+===========  ds0[0] ===========+===============|
    |                               |                               |
  4 |             port0             |             port1             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |             port2             |             port3             |
    |===============+===========  ds0[1] ===========+===============|
    |                               |                               |
 12 |             port0             |             port1             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 16 |             port2             |             port3             |
    |===============+===========  ds0[2] ===========+===============|
    |                               |                               |
 20 |             port0             |             port1             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 24 |             port2             |             port3             |
    |===============+===========  ds0[3] ===========+===============|
    |                               |                               |
 28 |             port0             |             port1             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 32 |             port2             |             port3             |
    |===============+===========  ds0[4] ===========+===============|
    |                               |                               |
 36 |             port0             |             port1             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 40 |             port2             |             port3             |
    |===============+===========  ds0[5] ===========+===============|
    |                               |                               |
 44 |             port0             |             port1             |
```

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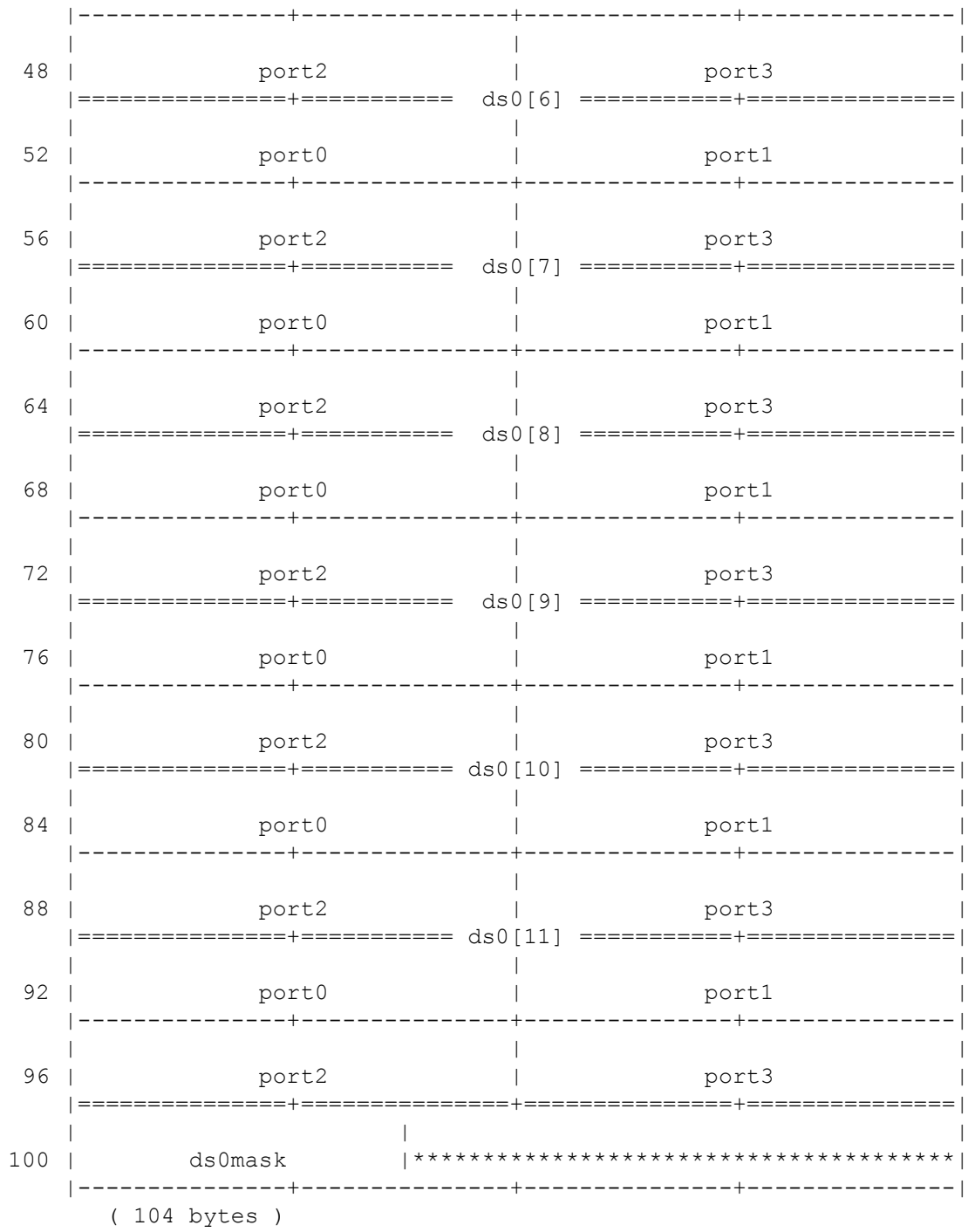


( 104 bytes )

## 4. Population Rules for RLds1_pt

**Relation Description** Facility to semi-permanent or permanent paths (associated with ports)
This relation describes the ports that are assigned permanent or semi-permanent paths on facilities that are associated with TR8 RTs, TR303 RTs, or PUB43801 facilities.

There are two tuples in DS1_PT for each facility which is a PUB43801 and is GROW or OPERATIONAL in RLcktdata, or for each facility which is not a protection line, and which goes to a remote terminal (RT) (TR008 or TR303) and the RT is GROW or OPERATIONAL in RLcktdata.

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This data is used by peripheral controller (PC) to determine which timeslots are available for call processing versus those which have already been allocated. The types of ports with path information stored in this relation are:

- On PUB43801 facilities, the ports which are nailed up or hair-pinned.
- On TR008 mode I RTs, the ports which are nailed up or hair-pinned.
- On TR008 mode II RTs, mode II specials (any assigned port which terminates on a SPOTS, COIN, DID, DIDDPT, SSV00, SSV10, FXS, or FXSL channel unit), and nailed up or hair-pinned ports.
- On TR303 RTs, the embedded operations channel (EOC) and timeslot management channel (TMC) ports, their associated (if any) guard timeslots, D-channels, permanent packet B-channels (PPB), and nailed up or hair-pinned ports.

***NOTE:*** On-demand B-channels and direct inward dialing (DID) trunks do not have path information in DS1_PT.

- On TR303 RTs, a special case is for the port name to have the value 0xFFFF, after Recent Change/Verify (RC/V) has deleted the relationship of port to digital signal level 1 (DS1). 0xFFFF will serve as a flag to Terminal Maintenance (TM) provisioning software to change the RLds1_pt portname from 0xFFFF to 0x0000, upon successful deletion of the cross connect in the TR303 RT for this DS1 full timeslot, or this DS1 quarter timeslot.

Each tuple represents one-half of a facility. The 12 attributes ds0_0 through ds0_11 represent the 12 timeslots in that half of the facility. Each of these attributes is a structure containing four fields, one for each quarter timeslot. A field will contain a portname if a port is using that 1/4 time slot. If a Semi-Permenent/Permenent (SP/P) path uses a full DS0, then all four fields will contain the same port name. A field will contain 0xFFFF only for TR303 RTs that need to be provisioned by TM software.

**Attribute: ds1name**

**Fullname:** Facility circuit name

**Attribute Description** This is the circuit name of a facility (DS1).

**Attribute: key_slot**

**Fullname:** Facility Half

**Attribute Description** This attribute indicates which half of the facility the tuple represents. The value of this attribute is the beginning timeslot (0 or 12) of this half of the facility.

**Attribute: ds0[*]**

**Fullname:** SP/P ports in Nth timeslot

**Attribute Description** This is a structure that represents which ports are assigned to each quarter of the Nth timeslot on this half of the facility.

**Attribute: ds0[*].port0**

**Fullname:** Port assigned to first 1/4 timeslot

**Attribute Description** This is the port name of the port that is assigned the First 1/4 of this timeslot. For TR008 RTs and PUB43801 facilities, if no port is using this 1/4 timeslot, then the value of this field is zero. For TR303 RTs, if no port is using this 1/4 timeslot, then the value of this field is 0xFFFF when provisioning to delete the TR303 RT cross connect is needed, otherwise the

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value of this field is zero.

**Attribute: ds0[*].port1**

**Fullname:** Port assigned to second 1/4 timeslot

**Attribute Description** This is the port name of the port that is assigned the second 1/4 of this timeslot. For TR008 RTs and PUB43801 facilities, if no port is using this 1/4 timeslot, then the value of this field is zero. For TR303 RTs, if no port is using this 1/4 timeslot, then the value of this field is 0xFFFF when provisioning to delete the TR303 RT cross connect is needed, otherwise the value of this field is zero.

**Attribute: ds0[*].port2**

**Fullname:** Port assigned to third 1/4 timeslot

**Attribute Description** This is the port name of the port that is assigned the third 1/4 of this timeslot. For TR008 RTs and PUB43801 facilities, if no port is using this 1/4 timeslot, then the value of this field is zero. For TR303 RTs, if no port is using this 1/4 timeslot, then the value of this field is 0xFFFF when provisioning to delete the TR303 RT cross connect is needed, otherwise the value of this field is zero.

**Attribute: ds0[*].port3**

**Fullname:** Port assigned to fourth 1/4 timeslot

**Attribute Description** This is the port name of the port that is assigned the fourth 1/4 of this timeslot. For TR008 RTs and PUB43801 facilities, if no port is using this 1/4 timeslot, then the value of this field is zero. For TR303 RTs, if no port is using this 1/4 timeslot, then the value of this field is 0xFFFF when provisioning to delete the TR303 RT cross connect is needed, otherwise the value of this field is zero.

**Attribute: ds0mask**

**Fullname:** Summary mask

**Attribute Description** This is a 12-bit mask that indicates which DS0s are not available for call processing. For each timeslot in this half of the facility that has one or more 1/4 timeslots assigned to an SP/P service, the corresponding bit in ds0mask is cleared. Also, for each timeslot in this half of the IDCU facility that has one or more 1/4 timeslots marked with the 0xFFFF port flag, the corresponding bit in ds0mask is cleared. All other bits are set.

**Defines:** "db/DMcircuit.h"

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# DS1SID

## 1. Description

This relation associates a transport DS1 with a Site ID number for an RDT.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 61440 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application type | SWMTC |
| relation type | DBSTATIC |
| head table size | 2048 |
| data page size | 512 |
| page level | 0 |

## 3. Field Layout

```
DS1SID      relid = 1730  DBSTATIC   DBACC_HASH  DBPRAM    LP      SWMTC
     sid          DMSHORT      (short)
     ds1_num      DMFACNUM     (ushort: 9)     <--- key
     utype        DMUNITTYPE   (enum: 7)     <--- key
     sm           DMMODULE     (ushort: 8)     <--- key
     unitno       DMUNITNO     (ushort: 8)     <--- key
     rdt_unit     DMUNITNO     (ushort: 8)
         User, Compacted and Stored Tuple Layout DS1SID
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                 |               |
  0 |              sid              |     ds1_num     |    utype      |
    |---------------+---------------+---------------+---------------|
    |               |               |                 |               |
  4 |       sm      |     unitno    |    rdt_unit     |***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLds1sid

**Relation Description** DS1 Name to Remote Terminal Site Identifier
This relation maps the external facility (DS1) name to the Remote Terminal (RT) Site Identifier (SID).

**Attribute: sm**

**Fullname:** Switching Module (SM) Number

**Attribute Description** This is the number of the SM.

**Attribute: unitno**

**Fullname:** Unit Number

**Attribute Description** This is the unit number on which the DS1 terminates.

**Attribute: utype**

**Fullname:** Unit Type

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**Attribute Description** This is the unit type on which the DS1 terminates.

**Attribute: ds1_num**

**Fullname:** Facility (DS1) Number

**Attribute Description** This is the DS1 number relative to the SM peripheral.

**Attribute: rdt_unit**

**Fullname:** TR-303 RDT unit number.

**Attribute Description** This is the internal RT unit number which is a sequential number assigned to each TR-303 RDT in an SM.

**Attribute: sid**

**Fullname:** RT Site Identifier

**Attribute Description** This is the RT site identifier, which uniquely identifies an RT within an office.

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# DS12RT

## 1. Description

This relation associates a given DS1 to a Remote Terminal.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1360 |
| expected tuples in relation | 34 |
| density | 38 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | SMds12rt |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
DS12RT      relid = 1728  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     ds1name     DMCIRCUIT    (ushort)     <--- key
     rtname      DMCIRCUIT    (ushort)
     rtnum       DMRTNUM      (uchar: 7)
 (a) is_backup   DMBOOL       (enum: 1)
     rt_ds1      DMRTDS1      (uchar: 5)
 (b) rtmode      DMS96MODE    (enum: 2)
 (c) is_prot     DMBOOL       (enum: 1)
 (d) shf_bnk     DMUNS2       (ushort: 2)
         User, Compacted and Stored Tuple Layout DS12RT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             ds1name           |              rtname           |
    |---------------+---------------+---------------+---------------|
    |              | |         |   | |   |                           |
  4 |    rtnum     |a|  rt_ds1 | b |c| d |***************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLds12rt

**Relation Description** Mapping From Facility Circuit Name to Remote Terminal information.
This relation is used to determine which TR8 or TR303 remote terminal (RT) is associated with a specific facility (DS1) on the *5ESS*®-2000 switch peripheral. The data is used during call processing to determine the RT that is associated with an offhook indication on a facility.

**Attribute: ds1name**

**Fullname:** Facility Circuit Name

**Attribute Description** This is the circuit name of a facility (DS1) that connects a TR8 or TR303 RT to the *5ESS*®-2000 switch peripheral.

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**Attribute: rtnum Fullname:** RT Number Relative To *5ESS*®-2000 switch peripheral

**Attribute Description** This attribute uniquely identifies the RT in relation to the *5ESS*®-2000 switch peripheral to which it is connected.

**Attribute: rtmode**

**Fullname:** Remote Terminal Mode

**Attribute Description** This is the mode (I, II, or TR303) of the RT, bank, or shelf.

**Attribute: shf_bnk**

**Fullname:** RT Shelf or Bank Number

**Attribute Description** This is the number of the shelf or bank on which the facility terminates. A value of 0 represents shelf A or bank AB, 1 represents shelf B, 2 represents shelf C or bank CD, and 3 represents shelf D. A value of 0 is used the protection DS1 on TR8 RTs. This attribute applies only to TR8 RTs. For TR303 RTs, the value of this attribute is 0.

**Attribute: is_prot**

**Fullname:** Protection Line

**Attribute Description** This is a boolean that indicates whether this facility is the protection line DS1.

**Attribute: is_backup**

**Fullname:** Backup Link for EOC/TMCs

**Attribute Description** This is a boolean that indicates whether this facility is the backup EOC/TMC link.

**Attribute: rt_ds1**

**Fullname:** Facility Number Relative to RT

**Attribute Description** This is the relative number of the facility on the RT side.

**Defines:** "db/DMcircuit.h"

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# DSC3PIDB

## 1. Description

This relation defines the PIDBs assigned to a Digital Service Circuit 3.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 36 |
| expected tuples in relation | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
DSC3PIDB    relid = 1881  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     picb        DMPICB       (uchar)  <--- key
     unitno      DMUNITNO     (ushort: 7)
     type        DMCKTTYPE    (enum)
     config      DMUNS4       (ushort: 4)
     pidb0       DMPIDB       (uchar)
     pidb1       DMPIDB       (uchar)
     pidb2       DMPIDB       (uchar)
     pidb3       DMPIDB       (uchar)
         User, Compacted and Stored Tuple Layout   DSC3PIDB
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |             | |                               |
  0 |      picb     |    unitno   |*|              type             |
    |---------------+---------------+---------------+---------------|
    |       |       |               |                |               |
  4 | config|*******|     pidb0     |     pidb1      |     pidb2     |
    |---------------+---------------+---------------+---------------|
    |               |                                                |
  8 |     pidb3     |************************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
RLdsc3pidb.G
domain alDSC3PI   struct  (5 sub-attributes)
         picb        unsigned char (uchar)
         unitno      .3.fake      (ushort: 7)
         type        .4.fake      (enum)
         config      .5.fake      (ushort: 4)
         pidb        .6.fake      (array [ 4 ] of unsigned char)
         Structure Layout      alDSC3PI
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |             | |                               |
  0 |      picb     |    unitno   |*|              type             |
    |---------------+---------------+---------------+---------------|
```

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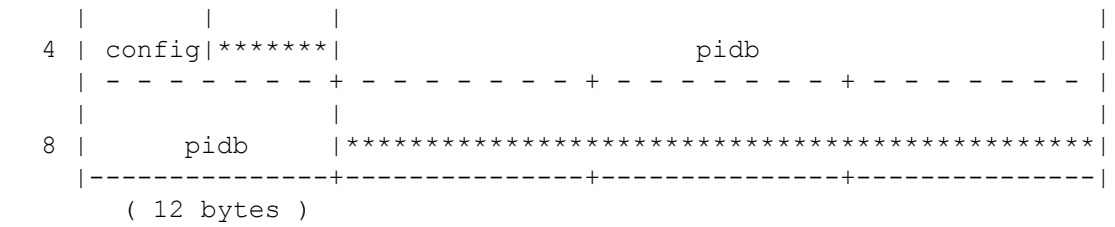


## 4. Population Rules for RLdsc3pidb

**Relation Description** Digital Service Circuit Model 3 Peripheral Interface Data Bus.

Defines the pidbs associated with a picb connected to a DSC3.

**Attribute: picb**

**Fullname:** peripheral interface control bus

**Attribute Description** The peripheral interface control bus number that is connected to side 0 of the digital service circuit model 3 circuit pack.

**Attribute: unitno**

**Fullname:** unit number

**Attribute Description** The unit number assigned to this digital service circuit model 3 circuit pack. For a DSC3 used as an LDSF the value can be from 00 thru 05.

**Attribute: type**

**Fullname:** circuit type

**Attribute Description** Common board circuit type assigned to this digital service circuit model 3 circuit pack. This board can be used as an LDSF.

**Attribute: config**

**Fullname:** GDSF configuration

**Attribute Description** The GDSF configuration number. It will be 0 for LDSF.

**Attribute: pidb0**

**Fullname:** peripheral interface data bus 0 on the DSC3

**Attribute Description** The peripheral interface data bus 0 number assigned to the first internal PIDB on the Digital Service Circuit Model 3 circuit pack.

**Attribute: pidb1**

**Fullname:** peripheral interface data bus 1 on the DSC3

**Attribute Description** The peripheral interface data bus 0 number assigned to the second internal PIDB on the Digital Service Circuit Model 3 circuit pack.

**Attribute: pidb2**

**Fullname:** peripheral interface data bus 2 on the DSC3

**Attribute Description** The peripheral interface data bus 0 number assigned to the third internal PIDB on the Digital Service Circuit Model 3 circuit pack.

**Attribute: pidb3**

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**Fullname:** peripheral interface data bus 3 on the DSC3

**Attribute Description** The peripheral interface data bus 0 number assigned to the fourth internal PIDB on the Digital Service Circuit Model 3 circuit pack.

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# DSCPORTS

## 1. Description

This is the dedicated switch connection ports.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 9999 |
| expected tuples | 300 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| relation type | DBSTATIC |
| application type | CGA |
| trigger function | TMdscports |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
DSCPORTS    relid = 2075  DBSTATIC   DBACC_CIND  DBPRAM    LP      CGA

     dscnum      DMUSHORT     (ushort) <--- key
     cntlg_port  DMPORT       (ushort)
     cntld_port  DMPORT       (ushort)
     cntlg_sm    DMMODULE     (ushort: 8)
     cntld_sm    DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout   DSCPORTS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              dscnum           |           cntlg_port          |
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  4 |           cntld_port          |    cntlg_sm   |    cntld_sm   |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLdscports

**Relation Description**

Dedicated Switch Connection (DSC) number to nailed up controlling and controlled port numbers

This relation will be used to map the Dedicated Switch Connection number to the nailed up controlling port and switching module (SM) and controlled port and SM.

**Attribute:**

dscnum

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**Fullname:**
Dedicated switch connection number
**Attribute Description:**
Number for the dedicated switch connection from the ECP to the cellsite through the nailup.

**Attribute:**
cntlg_sm
**Fullname:**
SM on which the controlling port is located.
**Attribute Description:**
SM on which the controlling port for the nailup connection is located.

**Attribute:**
cntlg_port
**Fullname:**
Controlling port of the nailup connection.
**Attribute Description:**

The controlling port for the nailup connection for the DSC.

**Attribute:**
cntld_sm
**Fullname:**
SM on which the controlled port is located.
**Attribute Description:**
SM on which the controlled port for the nailup connection is located.

**Attribute:**
cntld_port
**Fullname:**
Controlled port of the nailup connection.
**Attribute Description:**
The controlled port for the nailup connection for the DSC.

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# DSL_G

## 1. Description

This relation is a child storage relation for dslequip. The dslequip is broken up to reduce storage of redundant data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10240 |
| expected tuples in relation | 16 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTORAGE |
| ks key store | AUTO |
| foldtype | DBGC31 |
| gkidxrel GK-index relation | rlDSL_I |

## 3. Field Layout

```
DSL_G       relid = 1639  DBSTORAGE  DBACC_GK    DBPRAM    FP      NULL
     gkDSL_G     DMGK14        (ulong: 14)    <--- key, not stored
     dflt_lport  DMLPORT       (ushort: 16)
     cddn_lport  DMLPORT       (ushort: 16)
     pddn_lport  DMLPORT       (ushort: 16)
     pcr_n2      DMUNS16       (ushort)
     cut_noc     DMNOC         (ushort: 14)
 (a) b2serv      DMDSLSRV      (enum: 2)
     dflt_gpid   DMRCBFGID     (ushort: 12)
     dserv       DMDSRV        (enum: 4)
     acsr_gpid   DMGRPID       (ushort: 10)
     l2prof      DMDSLPROF     (enum: 6)
     ptymlhg     DMUNS8        (ushort: 8)
     ptyequip    DMUNS8        (ushort: 8)
     odb_mhg     DMUNS8        (ushort: 8)
     agipty1     DMUNS8        (ushort: 8)
     agipty2     DMUNS8        (ushort: 8)
     demand_bchan  DMUNS8        (ushort: 8)
     pcr_n1      DMUNS7        (ushort: 7)
 (b) acsr_inh    DMBOOL        (enum: 1)
     dslrate     DMDSLRATE     (enum: 6)
 (c) b1serv      DMDSLSRV      (enum: 2)
     dsl_tscnt   DMUNS5        (ushort: 5)
     maxterm     DMUNS4        (ushort: 4)
 (d) ppb1_pty    DMPARTY       (ushort: 4)
 (e) briclass    DMBRICLASS    (enum: 2)
 (f) is_dte      DMBOOL        (enum: 1)
 (g) ppb2_pty    DMPARTY       (ushort: 4)
     dpktmax     DMUNS4        (ushort: 4)
 (h) dpkt_cnt    DMUNS4        (ushort: 4)
     cut_d4      DMBCD         (ushort: 4)
 (i) bind_lptype  DMLPT_TYPE    (enum: 2)
     qts         DMUNS2        (ushort: 2)
 (j) q931proc    DMQ931PROC    (enum: 1)
 (k) dsl_ffcf1   DMBOOL        (enum: 1)
 (l) pfixtei     DMBOOL        (enum: 1)
```

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```
(m) dsl_prex    DMBOOL       (enum: 1)
(n) dsl_inv     DMBOOL       (enum: 1)
        User and Compacted Tuple Layout  DSL_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                |                               |
 0 |********************************|          gkDSL_G              |
   |---------------+---------------+---------------+---------------|
   |                                |                               |
 4 |           dflt_lport           |           cddn_lport          |
   |---------------+---------------+---------------+---------------|
   |                                |                               |
 8 |           pddn_lport           |             pcr_n2            |
   |---------------+---------------+---------------+---------------|
   |                            |   |                       |       |
12 |          cut_noc           | a |       dflt_gpid       | dserv |
   |---------------+---------------+---------------+---------------|
   |                   |           |               |               |
16 |     acsr_gpid     |   l2prof  |    ptymlhg    |    ptyequip   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
20 |    odb_mhg    |    agipty1    |    agipty2    |  demand_bchan |
   |---------------+---------------+---------------+---------------|
   |             | |           |   |         |       |       |   | |
24 |    pcr_n1   |b|  dslrate  | c |dsl_tscnt|maxterm|   d   | e |f|
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |   |   | | | | | |             |
28 |   g   |dpktmax|   h   | cut_d4| i |qts|j|k|l|m|n|*************|
   |---------------+---------------+---------------+---------------|
      ( 32 bytes )

    dflt_lport  DMLPORT      (ushort: 16)
    cddn_lport  DMLPORT      (ushort: 16)
    pddn_lport  DMLPORT      (ushort: 16)
    pcr_n2      DMUNS16      (ushort)
    cut_noc     DMNOC        (ushort: 14)
(a) b2serv      DMDSLSRV     (enum: 2)
    dflt_gpid   DMRCBFGID    (ushort: 12)
    dserv       DMDSRV       (enum: 4)
    acsr_gpid   DMGRPID      (ushort: 10)
    l2prof      DMDSLPROF    (enum: 6)
    ptymlhg     DMUNS8       (ushort: 8)
    ptyequip    DMUNS8       (ushort: 8)
    odb_mhg     DMUNS8       (ushort: 8)
    agipty1     DMUNS8       (ushort: 8)
    agipty2     DMUNS8       (ushort: 8)
    demand_bchan  DMUNS8       (ushort: 8)
    pcr_n1      DMUNS7       (ushort: 7)
(b) acsr_inh    DMBOOL       (enum: 1)
    dslrate     DMDSLRATE    (enum: 6)
(c) b1serv      DMDSLSRV     (enum: 2)
    dsl_tscnt   DMUNS5       (ushort: 5)
    maxterm     DMUNS4       (ushort: 4)
```

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```
(d) ppb1_pty    DMPARTY      (ushort: 4)
(e) briclass    DMBRICLASS   (enum: 2)
(f) is_dte      DMBOOL       (enum: 1)
(g) ppb2_pty    DMPARTY      (ushort: 4)
    dpktmax     DMUNS4       (ushort: 4)
(h) dpkt_cnt    DMUNS4       (ushort: 4)
    cut_d4      DMBCD        (ushort: 4)
(i) bind_lptype  DMLPT_TYPE   (enum: 2)
    qts         DMUNS2       (ushort: 2)
(j) q931proc    DMQ931PROC   (enum: 1)
(k) dsl_ffcf1   DMBOOL       (enum: 1)
(l) pfixtei     DMBOOL       (enum: 1)
(m) dsl_prex    DMBOOL       (enum: 1)
(n) dsl_inv     DMBOOL       (enum: 1)
          Stored Tuple Layout    DSL_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                          GK LINK FIELD                        |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |           dflt_lport          |           cddn_lport          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |           pddn_lport          |             pcr_n2            |
   |---------------+---------------+---------------+---------------|
   |                           |   |                       |       |
12 |          cut_noc          | a |       dflt_gpid       | dserv |
   |---------------+---------------+---------------+---------------|
   |                   |           |               |               |
16 |     acsr_gpid     |   l2prof  |    ptymlhg    |    ptyequip   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
20 |    odb_mhg    |    agipty1    |    agipty2    |  demand_bchan |
   |---------------+---------------+---------------+---------------|
   |             | |           |   |         |       |       |   | |
24 |    pcr_n1   |b|  dslrate  | c |dsl_tscnt|maxterm|   d   | e |f|
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |   |   | | | | | |             |
28 |   g   |dpktmax|   h   | cut_d4| i |qts|j|k|l|m|n|*************|
   |---------------+---------------+---------------+---------------|
      ( 32 bytes )
```

## 4. Population rules for RLdsl_g

### Relation Description

There are no population rules for this relation.

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# DSLEQP_R

## 1. Description

This relation assigns a port to a DSL Group ( = logical Protocol Handler, or 'PH').

This is a root storage relation.

Examples of port types are:

- DSL D-channel
- Data Link Terminal (DLT) port (DLT ports include Message Delivery ports and Telecommunicaton Standarization Sector (ITU-TS) Signaling Terminal ports.)
- DSL nailedup B-channel for X.25 packet switching
- Interswitch Packet Trunks
- Inter-SM ports
- EDSL D port

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10240 |
| expected number of tuples | 96 |
| density | 26 |
| ks key store | AUTO |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTORAGE |

## 3. Field Layout

```
DSLEQP_R    relid = 1638  DBSTORAGE  DBACC_CIND  DBPRAM    FP      NULL
     dsl          DMPORT       (ushort)  <--- key, not stored
     dpidb        DMCIRCUIT    (ushort)
     ds1          DMCIRCUIT    (ushort)
     bind_lport   DMLPORT      (ushort: 16)
     dslatts      DMGK14       (ulong: 14)
     dsl_group    DMPHNBR      (uchar: 7)
     member       DMPHCN       (uchar: 7)
     timeslot     DMUNS5       (ushort: 5)
     ds1_ts       DMUNS5       (ushort: 5)
         User and Compacted Tuple Layout   DSLEQP_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |               dsl             |*******************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              dpidb            |              ds1              |
    |---------------+---------------+---------------+---------------|
```

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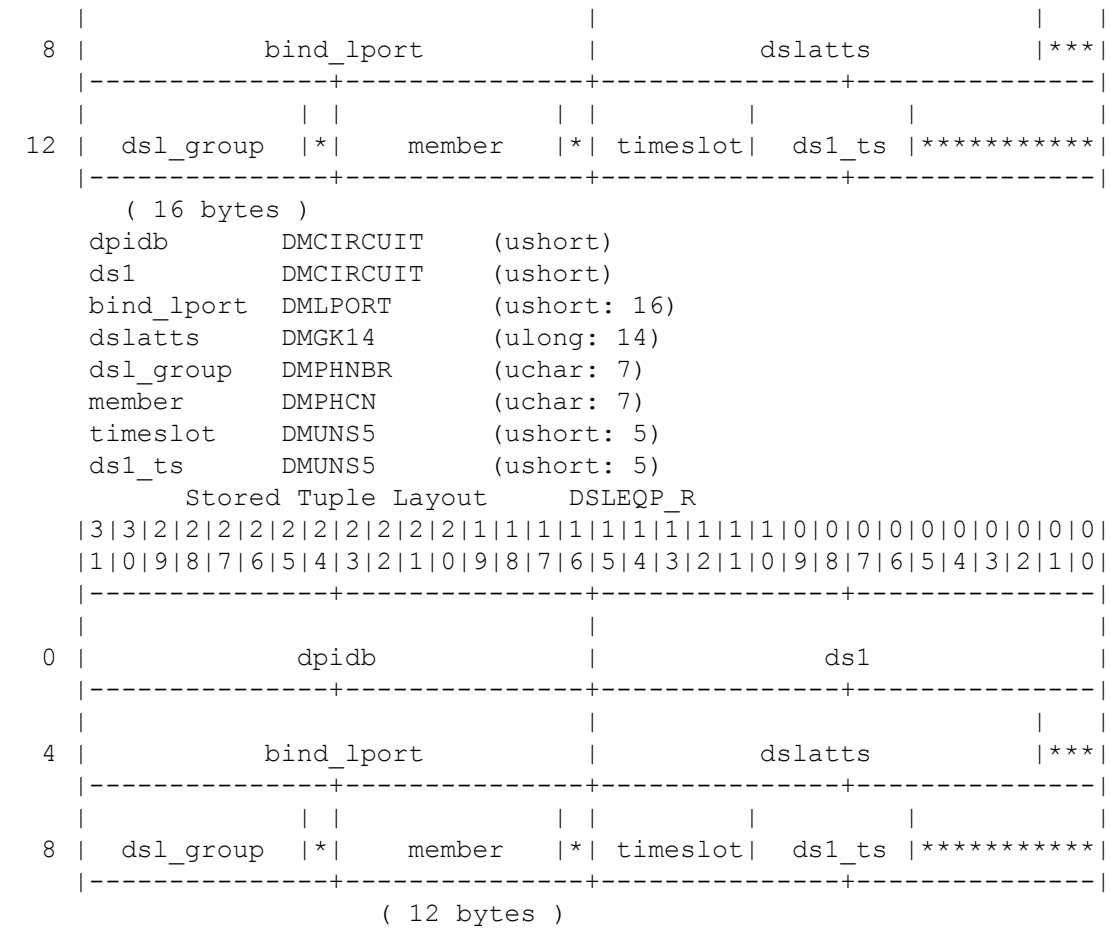


## 4. Population Rules for RLdsleqp_r

There are no population rules for this relation.

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# DSLEQUIP

## 1. Description

This relation assigns a port to a DSL Group ( or logical Protocol Handler, or 'PH').

This is a virtual update relation. The tree diagram Figure 1 depicts the stored structure of virtual relation DSLEQUIP.

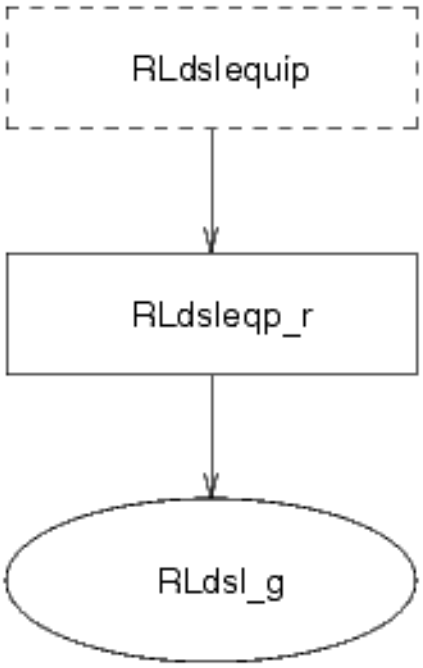


**Figure 1 Virtual Relation DSLEQUIP**

```
Examples of port types are:
   - DSL D-channel
   - Data Link Terminal (DLT) port (DLT ports include Message
     Delivery ports and   Telecommunication Standardization
     Sector (ITU-TS)   (formerly CCITT) Signaling Terminal ports.)
   - DSL nailedup B-channel for X.25 packet switching
   - Interswitch Packet Trunks
   - Inter-SM ports
   - EDSL D port
```

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | FCtrdsleq |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
DSLEQUIP    relid = 615   DBSTATIC   DBACC_OPV   DBNOTODD  FP      NULL
```

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```
    dpidb       DMCIRCUIT    (ushort)
    ds1         DMCIRCUIT    (ushort)
    dflt_lport  DMLPORT      (ushort: 16)
    cddn_lport  DMLPORT      (ushort: 16)
    acsr_gpid   DMGRPID      (ushort: 10)
    l2prof      DMDSLPROF    (enum: 6)
    ptymlhg     DMUNS8       (ushort: 8)
    ptyequip    DMUNS8       (ushort: 8)
    cut_noc     DMNOC        (ushort: 14)
(a) b2serv      DMDSLSRV     (enum: 2)
    dflt_gpid   DMRCBFGID    (ushort: 12)
    dserv       DMDSRV       (enum: 4)
    odb_mhg     DMUNS8       (ushort: 8)
    agipty1     DMUNS8       (ushort: 8)
    agipty2     DMUNS8       (ushort: 8)
    demand_bchan  DMUNS8       (ushort: 8)
    pddn_lport  DMLPORT      (ushort: 16)
    pcr_n2      DMUNS16      (ushort)
    pcr_n1      DMUNS7       (ushort: 7)
(b) acsr_inh    DMBOOL       (enum: 1)
    dslrate     DMDSLRATE    (enum: 6)
(c) b1serv      DMDSLSRV     (enum: 2)
    dsl_tscnt   DMUNS5       (ushort: 5)
    maxterm     DMUNS4       (ushort: 4)
(d) ppb1_pty    DMPARTY      (ushort: 4)
(e) briclass    DMBRICLASS   (enum: 2)
(f) is_dte      DMBOOL       (enum: 1)
(g) ppb2_pty    DMPARTY      (ushort: 4)
    dpktmax     DMUNS4       (ushort: 4)
(h) dpkt_cnt    DMUNS4       (ushort: 4)
    cut_d4      DMBCD        (ushort: 4)
(i) bind_lptype  DMLPT_TYPE   (enum: 2)
    qts         DMUNS2       (ushort: 2)
(j) q931proc    DMQ931PROC   (enum: 1)
(k) dsl_ffcf1   DMBOOL       (enum: 1)
(l) pfixtei     DMBOOL       (enum: 1)
(m) dsl_prex    DMBOOL       (enum: 1)
(n) dsl_inv     DMBOOL       (enum: 1)
    dsl         DMPORT       (ushort)  <--- key
    bind_lport  DMLPORT      (ushort: 16)
    dsl_group   DMPHNBR      (uchar: 7)
    member      DMPHCN       (uchar: 7)
    timeslot    DMUNS5       (ushort: 5)
    ds1_ts      DMUNS5       (ushort: 5)
        User, Compacted and Stored Tuple Layout   DSLEQUIP
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             dpidb             |              ds1              |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
```

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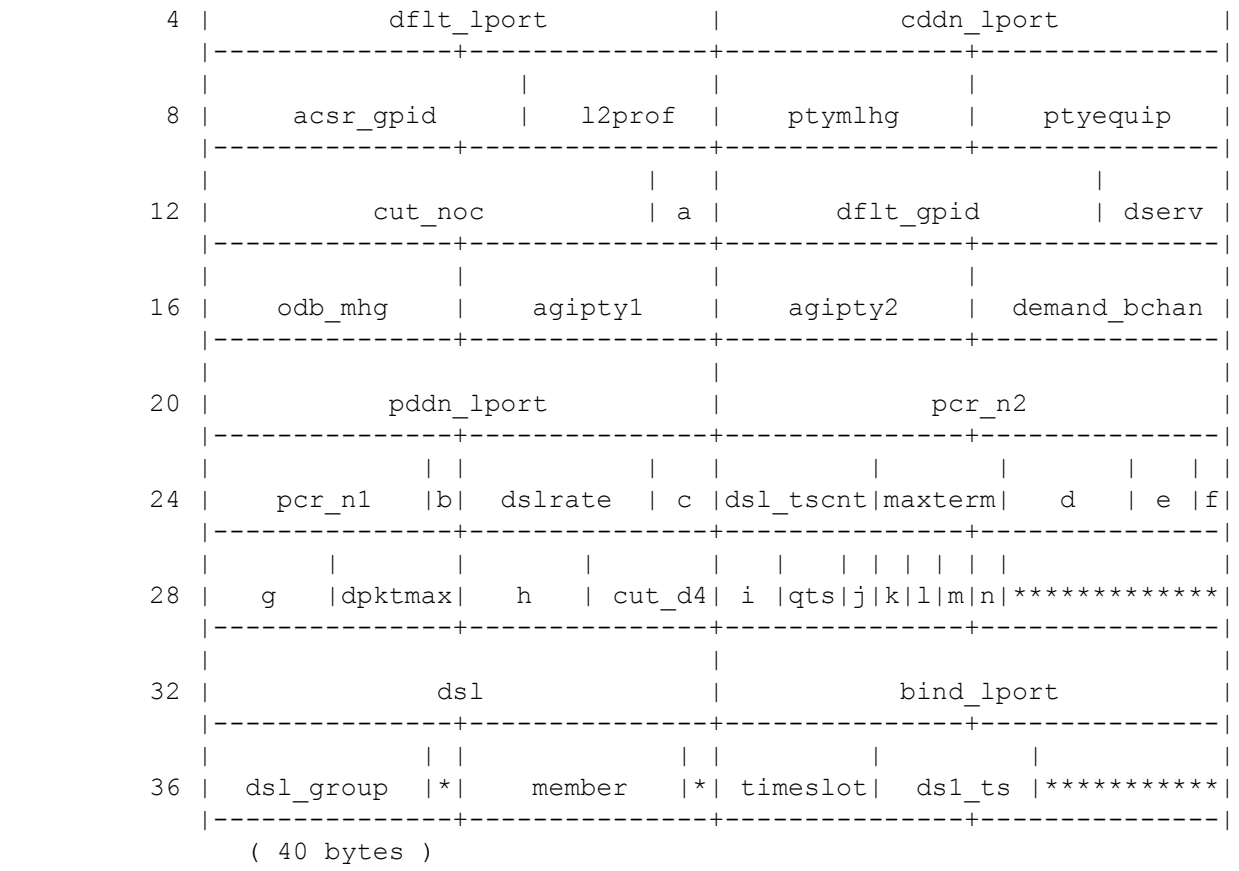


## 4. Population rules for RLdslequip

### Relation Description

Digital subscriber line (DSL) equipment assignment

This relation assigns ports to a DSL group. A DSL group is a representation of a logical protocol handler (PH).

The PRL in this file does not include any rules for international.

ISDN Poprules

CSD - Circuit switched data
CSV - Circuit switched voice
ODB - On-demand B-channel packet switching
PPB - Permanent B-channel packet switching
PPD - Permanent D-channel packet switching

1. DSL D-channel

| Description of port (servclass) | dserv | l2prof | dslrate | b1serv | b2serv |
|---|---|---|---|---|---|

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STANDARD APPLICATION DSL D-CHANNELS (FCPORTTYP.servclass = FC_ISDN)

Standard integrated services digital network (ISDN) DSL:
no permanent packet B-channel (PPB) service, number of
users is zero to eight:

```
ISDN DSL        PSSX    PSXISDN PSDSL16KB       RTDMD_SRV       RTDMD_SRV
B1:  unrestricted
B2:  unrestricted
```

Standard ISDN DSL: PPB1 service, number of users is zero to eight:

```
ISDN DSL w PPB1 PSSX    PSXISDN PSDSL16KB       RT_X25          RTDMD_SRV
B1:  X.25 provisioned packet
B2:  unrestricted
```

Standard ISDN DSL: PPB2 service, number of users is zero to eight:

```
ISDN DSL w PPB2 PSSX    PSXISDN PSDSL16KB       RTDMD_SRV       RT_X25

B1:  unrestricted
B2:     X.25 provisioned packet
```

Standard ISDN DSL: PPB1 and PPB2 service, number of users is zero to
eight:

Note: Users can have only permanent packet D-channel (PPD) service.

```
ISDN DSL PPB1/2 PSSX    PSXISDN PSDSL16KB       RT_X25          RT_X25

B1:  X.25 provisioned packet
B2:  X.25 provisioned packet
```

Standard ISDN DSL: PPB1 and/or PPB2 service, number of users is zero:
Note: Users may be created by service orders.

```
ISDN DSL PPB1/2 PSSX    PSXISDN PSDSL16KB       RT_X25          RT_X25
         PPB1   PSSX    PSXISDN PSDSL16KB       RT_X25          RTDMD_SRV
         PPB2   PSSX    PSXISDN PSDSL16KB       RTDMD_SRV       RT_X25
```

Standard ISDN DSL: PPB1 and/or PPB2 service, number of users is zero.
Note: No D-channel access allowed by the switch and no users can be
created by service orders.

```
ISDN DSL PPB1/2 PSADMIN PSISDN  PSDSL16KB       RT_X25          RT_X25
         PPB1   PSADMIN PSISDN  PSDSL16KB       RT_X25          RTNO_SRV
         PPB2   PSADMIN PSISDN  PSDSL16KB       RTNO_SRV        RT_X25
(DSLEQUIP.dflt_gpid equals zero)
```

Modem pool member:

```
DSL where       PSXMP       PSDX      PSDSL16KB     RTNO_SRV   RTNO_SRV
D-channel is
```

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| | | | | | |
|---|---|---|---|---|---|
| member of a modem pool multi-line hunt group (MLHG) (FC_ISDN) | | | | | |
| SPECIAL APPLICATION DSL D-CHANNELS | | | | | |
| ISDN Attendant (FC_ISATND) with voice on B1 | PSSONLY | PSISDN | PSDSL16KB | RTDMD_SRV | RTNO_SRV |
| DSL data link to an AP (PS_APDSL) | PSSONLY | PSAP | PSDSL16KB | RTNO_SRV | RTNO_SRV |
| B-Port with variable link access procedure, balanced (LAPB) parameters in RLlapbsub | | | | | |
| 2. Internal protocol trunk | | | | | |
| IP trunk with D3/D4 chan bank (PSPKT_TRK) | PS_NA | PSISWV | PSDSL56KB | RTNO_SRV | RTNO_SRV |
| IP trunk with-out D3/D4 chan bank (PSPKT_TRK) | PS_NA | PSISWV | PSDSL64KB | RTNO_SRV | RTNO_SRV |
| 3. Inter-SM link | | | | | |
| Inter-SM link (PSPKT_ISM) | PS_NA or | PSISMACK or PSISMUAK | PSDSL64KB PSDSL64IK | RTNO_SRV | RTNO_SRV |
| 4. Extended digital subscriber line (EDSL) D-channel | | | | | |
| EDSL D-channel (FCEDSL) | PS_NA | PSEDSL PSSTDPRI | PSDSL64KB or PSDSL64IK or PSDSL56KB | RTNO_SRV | RTNO_SRV |
| 5. X.75' trunk | | | | | |
| X75' trunk (PSX75P_TK) | PS_NA | PSX75_P | PSDSL56KB | RTNO_SRV | RTNO_SRV |
| 6. X.75 trunk | | | | | |
| X75 trunk | PS_NA | PSX75_T | PSDSL56KB | RTNO_SRV | RTNO_SRV |

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(PSX75_TK)

7. Operator services position system (OSPS)-EDSL D-channel (sending OSPS)

| | | | | | |
|---|---|---|---|---|---|
| OSPS-EDSL D-channel (OA_IFOPER) | PS_NA | PSIFPRI | PSDSL64KB or PSDSL64IK or PSDSL56KB | RTNO_SRV | RTNO_SRV |

8. OSPS-EDSL D-channel (receiving OSPS)

| | | | | | |
|---|---|---|---|---|---|
| OSPS-EDSL D-channel (OA_IFTERM) | PS_NA | PSIFPRI | PSDSL64KB or PSDSL64IK or PSDSL56KB | RTNO_SRV | RTNO_SRV |

Note: For populating the 'is_dte' attribute for ISDN ports, see the discussion on is_dte.

Note: For populating the 'q931proc' attribute for ISDN ports, see the discussion on q931proc.

RLdslequip (DSL D-port assignment to a DSL group)
(EDSL D-port assignment to a DSL group)
(OSPS-EDSL D-port assignment to a DSL group)

DESCRIPTION:

This relation provides the DSL group number, physical PH channel number, layer 2 protocol parameter set and the data rate assigned to an EDSLs D-port, or assigned to an OSPS-EDSLs D-port, or assigned to a DSL's D-port.

In these population rules, the terms Extended Digital Subscriber Line (EDSL) and Primary Rate Interface (PRI) are used interchangeable. Since PRI is preferred, all new rules should use PRI instead of EDSL.

KEY FORMAT:

See TUPLE SEMANTICS.

QUANTITY OF TUPLES:

One tuple for each equipped DSL or equipped EDSL or equipped OSPS-EDSL.

TUPLE SEMANTICS:

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All references to EDSL also apply to OSPS-EDSL, unless otherwise noted.

dsl (KEY1) - DSL 16-bit D-port name.
(Must be identified in RLfc_porttyp.)
Possible service class are: FC_ISDN and OA_DAOPER.

- OR -

EDSL 16-bit D-port name.
(Must be identified in RLfc_porttyp.)
Service class is FCEDSL.

- OR -

OSPS-EDSL 16-bit D-port name.
(Must be identified in RLfc_porttyp.)
Service class is OA_IFOPER or OA_IFTERM.
'dsl_group' is the DSL group number (0 to 95)
to which the D-port is assigned.

member - Physical PH channel (0 to 127 for PH128)
to which the D-port is assigned. For PRI and
OSPS D-channels, member must be a multiple of 4.
Each combination of dsl_group and member needs a
tuple in RLequipdsl.

l2prof - Value of type 'DMDSLPROF' based on user terminal
type (see attribute section).

dslrate - Value of type 'DMDSLRATE' based on port type
(see attribute section).

For EDSL D-channels, dslrate is based on dfimode
assigned to the circuit in RLcktdata.

For dfimodes SMT1D4, and SMT1FEB7 use
dslrate = PSDSL56KB.

For dfimodes SMT1FE8Z and SMT164K, use
dslrate = PSDSL64KB.

For dfimodes SMT1FE64K and SMT1D464K, use
dslrate = PSDSL64IK.

For OSPS-EDSL D-channels, dslrate is based on dfimode
assigned to the circuit in RLcktdata.

For dfimodes SMT1D4, and SMT1FEB7 use
dslrate = PSDSL56KB.

For dfimodes SMT1FE8Z and SMT164K, use
dslrate = PSDSL64KB.

For dfimodes SMT1FE64K and SMT1D464K, use
dslrate = PSDSL64IK.

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```
b1serv        - Service allowed on B1 channel.
                Populate according to rules in diagram titled
                'ISDN poprules'.

b2serv        - Same as for B1serv except it applies to channel B2.

dserv         - Value from domain DMdsrv (PS_NA not allowed).

dpktmax       - For DSL D-channels, populate per pop rules.
                For EDSL D-channels, not used; populate with '0'.

briclass      - For DSL D-channels, populate per pop rules.
                For EDSL D-channels, not used; populate with 'BRI_PP'.

maxterm       - For DSL D-channels, populate per pop rules.
                For EDSL D-channels, not used; populate with '1'.

bind_lport    - For DSL D-channels, populate per pop rules.
                For EDSL D-channels, not used; populate with '0'.

bind_lptype   - For DSL D-channels, populate per pop rules.
                For EDSL D-channels, not used; populate with 'LPT_ISDN'.

ptymlhg       - For DSL D-channels, populate per pop rules.
                For EDSL D-channels, not used; populate with '0'.

dflt_lport    - For DSL D-channels, populate per pop rules.
                For EDSL D-channels, not used; populate with '0'.

ppb1_pty      - For DSL D-channels, populate per pop rules.
                For EDSL D-channels, not used; populate with '8'.

ppb2_pty      - Same as ppb1_pty

dpkt_cnt      - For DSL D-channels, populate per pop rules.
                For EDSL D-channels, not used; populate with '0'.

ptyequip      - For DSL D-channels, populate per pop rules.
                For EDSL D-channels, not used; populate with '0'.

dflt_gpid     - For DSL D-channels, populate per pop rules.
                For EDSL D-channels, not used; populate with '0'.

acsr_gpid     - For DSL D-channels, populate per pop rules.
                For EDSL D-channels, not used; populate with '0'.

acsr_inh      - For DSL D-channels, populate per pop rules.
                For EDSL D-channels, not used; populate with 'DBNO'.

cut_noc       - For DSL D-channels, populate per pop rules.
                For EDSL D-channels, not used; populate with '0'.

cut_d4        - For DSL D-channels, populate per pop rules.
                For EDSL D-channels, not used; populate with '0'.
```

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```
is_dte        - Refer to the population procedure for this attribute.

q931proc      - Refer to the population procedure for this attribute.

odb_mhg       - For DSL D-channels, populate per pop rules.
                For EDSL D-channels, not used; populate with '0'.

pfixtei       - For DSL D-channels, populate per pop rules.
                For EDSL D-channels, not used; populate with 'DBNO'.

cddn_lport    - For DSL D-channels, populate per pop rules.
                For EDSL D-channels, not used; populate with '0'.

pddn_lport    - For DSL D-channels, populate per pop rules.
                For EDSL D-channels, not used; populate with '0'.

pcr_n1        - For DSL D-channels, not used; populate with '0'.
                For EDSL D-channels, not used; populate with '0'.

pcr_n2        - For DSL D-channels, not used; populate with '0'.
                For EDSL D-channels, not used; populate with '0'.

Notes  (integrity check)

This relation uses the same attributes as relation RLequipdsl.
Therefore, the following items must match in the two relations:
dsl           - 16-bit D-port name.
dsl_group     - DSL group to which the D-port is assigned.
member        - Physical PH channel number to which the
                D-port is assigned.



                RLdslequip (ISM port assignment to a DSL group)


DESCRIPTION:

This relation provides the DSL group number, physical PH channel
number, layer 2 protocol parameter set and the data rate
assigned to a inter-SM (ISM) port.

KEY FORMAT:
See TUPLE SEMANTICS.

QUANTITY OF TUPLES:
One tuple for each ISM port.

TUPLE SEMANTICS:
dsl (KEY1)    - 16-bit ISM port name.
                Must be identified in RLfc_porttyp with servclass
                PSPKT_ISM and lp_type PCISMPT.
                Every ISM port needs a tuple in RLismpath.
```

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```
dsl_group     - DSL group number (logical PH) to which the ISM port
                is assigned (0 to 95)

member        - Physical PH channel to which the ISM port is
                assigned (0 to 127).  Each combination of 'dsl_group'
                and 'member' needs a tuple in RLequipdsl.
                For PH2s, member values are limited to 0, 4, 8 and 12.
                For PH3s and PH4s, member values must be a multiple
                of 4 between 0 and 127.  Members do not need to be
                assigned sequentially.

l2prof        - Populate with the value of 'PSISMACK' if the
                mate SM (specified in RLismpath) or this SM has
                imtype of SMRSM in RLmodatt.  Otherwise, populate
                with the value 'PSISMUAK'.

dslrate       - Populate with the value of 'PSDSL64IK' if the
                mate SM (specified in RLismpath) or this SM has
                imtype of SMRSM in RLmodatt.  Otherwise, populate
                with the value 'PSDSL64KB'.

dpidb         - Not used; populate with '0'.

timeslot      - Not used; populate with '0'.

qts           - Not used; populate with '0'.

b1serv        - Not used; populate with 'RTNO_SRV'.

b2serv        - Not used; populate with 'RTNO_SRV'.

dserv         - Not used; populate with 'PS_NA'.

dpkt_cnt      - Not used; populate with '0'.

dpktmax       - Not used; populate with '0'.

briclass      - Not used; populate with 'BRI_PP'.

maxterm       - Not used; populate with '1'.

ppb1_pty      - Not used; populate with '8'.

ppb2_pty      - Not used; populate with '8'.

dpkt_cnt      - Not used; populate with '0'.

ptymlhg       - Not used; populate with '0'.

bind_lport    - Not used; populate with '0'.

bind_lptype   - Not used; populate with 'LPT_ISDN'.
```

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```
dflt_lport    - Not used; populate with '0'.

ptyequip      - Not used; populate with '0'.

dflt_gpid     - Not used; populate with '0'.

acsr_gpid     - Not used; populate with '0'.

acsr_inh      - Not used; populate with 'DBNO'.

cut_noc       - Not used; populate with '0'.

cut_d4        - Not used; populate with '0'.

is_dte        - Populate with 'DBYES' if master; otherwise 'DBNO'.

q931proc      - Not used; populate with 'NETWORK'.

odb_mhg       - Not used; populate with '0'.

pfixtei       - Not used; populate with 'DBNO'.

cddn_lport    - Not used; populate with '0'.

pddn_lport    - Not used; populate with '0'.

pcr_n1        - Not used; populate with '0'.

pcr_n2        - Not used; populate with '0'.

Notes (integrity check)

This relation uses the same attributes as relation RLequipdsl
therefore, the following items must match in the two relations:

dsl           - 16-bit ISM port name.
dsl-group     - DSL group to which the ISM port is assigned.
member        - Physical PH channel number to which the ISM port
                is assigned

Every ISM tuple populated in this relation must have a
corresponding tuple with the same key populated in RLismpath.

An ISM tuple in this relation cannot have its attributes' values
modified by recent change.  The tuples must be deleted and added
to change the value of any of its attributes.

                RLdslequip

(Nailed-up B-channel with packet switching assignment to a DSL group)
(Internal protocol (IP) trunk assignment to a DSL group)
(X.75' trunk member)
(X.75  trunk member)
```

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```
TUPLE SEMANTICS:

dsl      (KEY1) - DSL 16-bit port name

                  (Must be identified in RLfc_porttyp)
                  The service class is:
                - FC_ISDN for nailed-up B-channels.
                - PSPKT_TRK for IP trunks.
                - PSX75P_TK for X.75' trunks.
                - PSX75_TK for X.75 trunks.

                  The logical port type is:
                - PCUXB_CHAN or PCTXB_CHAN for nailed-up
                  B-channels (depending on whether the
                  U-line card or T-line card is used).
                - PCISWIP for IP trunks.
                - PCX75PTK for X.75' trunks.
                - PCX75TK for X.75 trunks.

dsl_group       - DSL group number that the port is assigned (0 to 95).
                  Every port must appear in RLequipdsl

member          - Physical PH channel to which the port is assigned
                  (0 to 127).  Each combination of dsl_group and member
                  needs a tuple in RLequipdsl.

                  If PH128, then member can be 0, 4, 8,... (multiple of 4)

                  for X.75', X.75 and IP trunk member on PH2 must be 0

                  for X.75', X.75 and IP trunk members on PH3 and PH4,
                  members can be 0, 4, 8...20; however, it is recommended
                  only 4 X.75' or X.75 trunk members per PH3 or PH4
                  be populated.  All trunk members on a given PH3 or
                  PH4 must be equipped on the same SM and be of the
                  same type (that is, IP, X.75, X.75').

l2prof          - Populate with:
                - For nailed-up B-channels:  PSBXV.
                - For IP trunks:  PSISWV.
                - For X.75' trunks: PSX75_P.
                - For X.75 trunks: PSX75_T.

dslrate         - Populate with:
                - For nailed-up B-channels:  PSDSL64KB or PSDSL56KB.
                  (The data rate is dependent on the customer's choice
                  of terminating equipment.  The customer must be
                  queried for the data rate.)
                - For IP trunks with D3/D4 channel bank:  PSDSL56KB.
                - For IP trunks without D3/D4 channel bank:  PSDSL64KB.
                - For X.75' trunks:  PSDSL56KB.
                - For X.75 trunks:  PSDSL56KB.

dpidb           - For nailed-up B-channels:  see RLislulgc for (R)ISLU,
```

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```
                  RLislu2lg for ISLU2, or RLaiu2ap for AIU  population
                  rules general section, and dpidb_mask usage section for
                  more information on dpidb.

                - For IP trunks:  not used, populate with '0'.
                - For X.75' trunks:  not used, populate with '0'.
                - For X.75 trunks:  not used, populate with '0'.

timeslot        - For nailed-up B-channels:  see RLislulgc for (R)ISLU,
                  RLislu2lg for ISLU2, RLaiu2ap for AIU population rules
                  general section and dpidb_mask usage section for more
                  information on timeslot.

                - For IP trunks:  not used, populate with '0'.
                - For X.75' trunks:  not used, populate with '0'.
                - For X.75 trunks:  not used, populate with '0'.

qts             - Not used; populate with '0'.

b1serv          - Not used; populate with 'RTNO_SRV'.

b2serv          - Not used; populate with 'RTNO_SRV'.

dserv           - Not used; populate with 'PS_NA'.

dpkt_cnt        - Not used; populate with '0'.

dpktmax         - Not used; populate with '0'.

briclass        - Not used; populate with 'BRI_PP'.

ptyequip        - Not used; populate with '0'.

dflt_gpid       - Not used; populate with '0'.

acsr_gpid       - Not used; populate with '0'.

acsr_inh        - Not used; populate with 'DBNO'.

cut_noc         - Not used; populate with '0'.

cut_d4          - Not used; populate with '0'.

is_dte          - Not used; populate with 'DBNO'.

q931proc        - Not used; populate with 'NETWORK'.

odb_mhg         - Not used; populate with '0'.

pfixtei         - Not used; populate with 'DBNO'.

cddn_lport      - Not used; populate with '0'.

pddn_lport      - Not used; populate with '0'.
```

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pcr_n1 - Not used; populate with '0'.

pcr_n2 - Not used; populate with '0'.

Notes (integrity check)

1. This relation uses some of the same attributes as relation RLequipdsl therefore, the following items must match in the two relations:

   dsl - 16-bit port name.
   dsl-group - DSL group to which the port is assigned.
   member - Physical PH channel number to which. the port is assigned

2. A DSL with packet switching on B-channel will have two tuples in RLdslequip, if one of the B-channels have provisioned X.25 packet switching. If both channels have provisioned X.25 packet switching, then the DSL will have three tuples in RLdslequip (one for each B-channel and one for the DSL as a whole, that is, the D-channel tuple).

All lines with X.25 Packet features will only be supported by PH3's.

**Attribute:**
dsl
**Fullname:**
Digital subscriber line
**Attribute Description:**
Populate with PH port name. This port must be previously populated in relation RLfc_porttyp.

The dslequip tuple must always exist when the RLFC_PORTTYP D-channel servclass attribute is FC_ISDN.

A dslequip tuple will also exist when the RLfc_porttyp D-channel servclass attribute is FC_ISATND.

Note: If RLfc_porttyp.servclass is equal to FC_ISATND for this DSL, then this DSL does not support packet switched or circuit switched data. If the RLfc_porttyp D-channel servclass attribute is RC_PORTUNA, the DSL is on intercept (RLrt_dntran.termclass equals AGING), and the DSL is still associated with its port data (RLrt_dntran.portname.member <> 0 and RLrt_dntran.portname.module <> 0) then the tuple in RLdslequip will still exist.

For X.75 trunks, the DSL must have a corresponding entry in RLfc_porttyp with servclass equal to PSX75_TK and logical port type equal to PCX75TK.

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For X.75' trunks, the DSL must have a corresponding entry in RLfc_porttyp with servclass equal to PSX75P_TK and logical port type equal to PCX75PTK.

For IP trunks, the DSL must have a corresponding entry in RLfc_porttyp with servclass equal to PSPKT_TRK and logical port type equal to PCISWIP.

The PH port types are:
- DSL D-channel
- DSL nailed-up B-channel for X.25 packet switching
- Internal protocol trunks
- Inter-SM ports with packet switching
- EDSL D-port
- OSPS-EDSL D-port
- X.75' trunks
- X.75 trunks
- XAT trunks
- Modem pool
- TR303 remote terminal embedded operations channel (EOC) and timeslot management channel (TMC) data links

**Attribute:**

dpidb

**Fullname:**

Directly connected peripheral interface data bus (DPIDB) connection

**Attribute Description:**

The circuit name of the DPIDB on AIU/ISLU(2)/IDCU SG 0 of the DSL is assigned. Must be non-zero for DSLs on an AIU/ISLU(2)/IDCU. Must be zero for remote integrated services line unit (RAIU/RISLU) DSLs. Default to 0x0000. RC and ODA must allow this value to be optionally input.

If not input for an AIU/ISLU(2) DSL, RC and ODA must assign the DPIDB. See RLislulgc for (R)ISLU, RLislu2lg for ISLU2 assignment rules, or RLaiu2ap for AIU.

If not input for an IDCU DSL (which includes EOC and TMCs) then RC and ODA must find a timeslot from the PH to the RT. See the rc-oda rules section for rules on 'qts', 'pidb', 'timeslot', 'ds1', and 'ds1_ts' selection for IDCU DSLs.

The DPIDB assignment must be preserved across retrofits and any other off-line ODA processes. If populated, then relation RLdpidb_pt must be populated with this portname.

This attribute is not applicable for EDSL, populate with default for EDSL D-ports.

This attribute is not applicable for OSPS-EDSL, populate with default for OSPS-EDSL D-ports.

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This attribute is not used by X.75 or XAT port.

**Attribute:**
dsl_group
**Fullname:**
DSL group number to which the port is assigned
**Attribute Description:**
Populate with the DSL group number (0 to 95) to which the port has been assigned. The attribute assigned in RLdslgdata must be DBYES for this DSL group in order to insert this port.

The DSL group number that a XAT port is assigned is determined by protocol handler shelf and PH number entered via RCV/ODA.
All lines with X.25 packet features will only be supported by PH3's.

**Attribute:**
member
**Fullname:**
PH physical channel member number
**Attribute Description:**
Populate with the member number (0 to 127 for PH128) of the DSL group to which the port has been assigned. The member numbers can be assigned in any order.

Note: If the DSL group is assigned to one of the following ports on a PH2,
- Internal protocol trunk member
- X.75' trunk member
- X.75 trunk member

then one, and only one, member number shall be assigned; member 0 shall be assigned and no other members shall be allowed assignment in this DSL group.

Note: If the DSL group is assigned to one of the following ports on a PH3,
- Internal protocol trunk member
- X.75' trunk member
- X.75 trunk member

then the member number may be assigned in multiples of four (0, 4, 8...20); however, it is recommended only four X.75' or X.75 trunk members per PH3 be populated. All packet trunk members on a given PH3 must be of the same level 2 profile (that is, PSISWV, PSX75_T, PSX75_P) and all of the ports must be equipped on the same SM.

Hardware conversion note:
If the PH3 is to be converted to a PH2 only one member may be assigned to the PH3 and the 'member' attribute must equal zero otherwise the conversion will be blocked.

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If the DSL group (PH128) is assigned to one of the following ports:
- DSL B-channel with packet switch
- EDSL D channel
- OSPS interflow D-channel

Then only member numbers that are multiples of four (such as, member 0, 4, 8, 12, ..., 124) shall be allowed assignment in the DSL group.

If member X is chosen for a 56K/64K service (dslrate is PSDSL56KB, PSDSL64KB, or PSDSL64IK), then member X+1, X+2, and X+3 must not be assigned to any other user. Conversely, if member Y is chosen for a 16K service (dslrate is PSDSL16KB), then members Y-1, Y-2, and Y-3 must not be occupied by a 56K/64K user (dslrate is PSDSL56KB, PSDSL64KB, or PSDSL64IK).

OSPS & TCP_IP Population Rule for members
---

This section applies only to OSPS DSL ports having the following service classes (RLFC_PORTTYP.servclass) - AS_OAP, FC_DASC, FC_HOBIS, FC_HOTRT, FC_HOTVT, FC_RTRS, HM_RAS, OA_AQDSL, OA_DAOPER, OA_MIS_LNK (also used by ACD/BRCS), OA_TAOPER, TM_XDB, AS_TCPIP, FC_EIS_LNK.

PH members must be assigned to optimize the use of timeslots for D-channel paths. Each D-channel path requires a quarter timeslot. Timeslots are optimized by assigning DSLs to line group controllers (LGCs) and PH members so that four DSLs share one timeslot.

This paragraph describes the use of PH128s for OSPS DSLs equipped on RISLUs and ISLUs in the 5E9(2) Software Release. The DSL group member numbers may be any values in the PH128 member range 0-127, (that is, no restrictions).

Definition: A sub-line group (SLG) is a set of four RISLU/ISLU line cards (LCs) on a single line group controller (LGC), having LC numbers as follows:
(0, 2, 4, 6): (8, 10, 12, 14): (16, 18, 20, 22): (24, 26, 28, 30).

DSL D-channel ports equipped on a given SLG should all belong to the same DSL group (that is, logical PH 128). The maximum allowable number of D-channel or B-channel ports that can be assigned to a DSL group should be traffic engineered.

The DSL group member number that a XAT port is assigned is determined by PH channel number entered via RCV/ODA. If the port is an X.75 trunk then the member must be zero.

**Attribute:**
l2prof
**Fullname:**
Level 2 parameter profile for the port

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**Attribute Description:**

Populate with the level 2 parameter profile type.

The only ports with LAPB are DSL B-channels with packet switching (dslequip.l2prof equals PSBXV), IP trunks with packet switching (dslequip.l2prof equals PSISWV) and X.75' trunks (dslequip.l2prof equals PSX75_P).

The profile chosen depends on the terminal type:

For North American offices, the following terminal types and service classes are valid:

| terminal type | service class(es) | l2prof selection |
|---|---|---|
| OSPS basic services terminal | OA_DAOPER<br>OA_DAOPER | PSBST<br>PSVDT |
| OSPS directory assistance system/computer terminal | FC_DASC | PSDASC |
| OSPS administrative terminal or alarm circuit | AS_OAP<br>HM_RAS | PSATA |
| Any circuit switching terminal (such as BRCS) | FC_ISDN | PSISDN |
| ISDN attendant DSL For 5E4: | FC_ISATND | PSISDN |
| application processor (AP) computer | PS_APDSL | PSAP |
| OSPS video display terminal | OA_TAOPER | PSVDT or PSBST |
| OSPS real time rating system | FC_RTRS | PSRTRS |
| OSPS hotel billing information system | FC_HOBIS | PSHOBIS |
| OSPS hotel billing information center | FC_HOTVT | PSHOTVT |
| OSPS hotel billing information center | FC_HOTRT | PSHOTRT |

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| | | |
|---|---|---|
| OSPS autoquote DSL | OA_AQDSL | PSATA |
| OSPS external database DSL (B-channel) | TM_XDB | PSBXV |
| OSPS DSL (D-channel) | TM_XDB | PSISDN |
| Used for TCP_IP database DSL (B-channel) | AS_TCPIP | PSBXV |
| Used for TCP_IP DSL (D-channel) | AS_TCPIP | PSISDN |
| Management Information System (MIS) data link | OA_MIS_LNK | PSDASC |
| EDSL primary rate terminal | FCEDSL | PSEDSL or PSSTDPRI |
| OSPS-EDSL primary rate terminal (sending OSPS) | OA_IFOPER | PSIFPRI |
| OSPS-EDSL primary rate terminal (receiving OSPS) | OA_IFTERM | PSIFPRI |
| OSPS external information system data link | FC_EIS_LNK | PSEIS_1 or PSEIS_2 |
| Message Delivery (MD) link | MSG_DELV | PSMDDLT |
| Signaling Data Link Terminal (ST-DLT) | CCS_STSS7 | PSBSTDLT |

For terminal type XAT and service class PSX25_T1, the level 2 profile selection is PSXAT. For X.75 trunks, l2prof equals PSX75_T. For X.75' trunks, l2prof equals PSX75_P. For IP trunks, l2prof equals PSISWV.

**Attribute:**
dslrate
**Fullname:**
Data rate and data inversion indicator
**Attribute Description:**
Populate with the port data rate.

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The 'dslrate' must be identical for all IP trunks within the same IP trunk group.

The profile chosen depends on the port type: For U.S. applications, the following port types are valid:

| port type | dslrate selection |
|---|---|
| DSL D port - 16 Kilobit, non-inverted | PSDSL16KB |
| DSL B-channel | PSDSL64KB<br>PSDSL56KB |
| IP trunk with D3/D4 chan bank | PSDSL56KB |
| IP trunk without D3/D4 chan | PSDSL64KB |
| X.75' trunk | PSDSL56KB |
| Inter-SM port | PSDSL64KB |
| restricted channel, inverted HDLC | PSDSL64IK |
| EDSL D port - 64 Kilobit clear channel, non-inverted HDLC | PSDSL64KB |
| EDSL D port - 64 Kilobit restricted channel, inverted HDLC | PSDSL64IK |
| EDSL D port - 56 Kilobit channel | PSDSL56KB |
| OSPS-EDSL D port - 64 Kilobit clear channel, non-inverted HDLC | PSDSL64KB |
| OSPS-EDSL D port - 64 Kilobit restricted channel, inverted HDLC | PSDSL64IK |
| OSPS-EDSL D port - 56 Kilobit channel | PSDSL56KB |
| TR303 EOC and TMCs | PSDSL64KB |
| Message Delivery (MD) port | PSDSL64KB |
| Signaling Data Link Terminal port (ST-DLT) | PSDSL56KB |

The data rates that can be assigned to a XAT port are PSDSL56KB (56 Kilobit), PSDSL64KB (64 Kilobit clear), and PSDSL64IK

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(64 Kilobit restricted, inverted HDLC). The data rate for X.75 trunks must be PSDSL56KB.

**Attribute:**

b1serv

**Fullname:**

Type of ISDN service allowed on channel B1

**Attribute Description:**

The full choice of values for this attribute only applies to tuples whose key refers to a DSL D-channel. For tuples associated with other port types (eg., B-channels, internal protocol trunks [IPT], ISM ports): populate with RTNO_SRV.

Default:
For servclass equal to FC_ISDN or FC_ISATND, set it to RTDMD_SRV
All other cases, set it to RTNO_SRV.

Populate with the type of service permitted on channel B1 for DSL D-channels with service class FC_ISDN or FC_ISATND. (For all other service classes and for all NON-DSL D-channel port types (even if they have service class equal to FC_ISDN) populate with RTNO_SRV). The allowable values for DSL D-channels with service class FC_ISDN (domain DMDSLSRV) are:

RTNO_SRV - Service is not allowed on this B-channel. (RLfc_porttyp tuple does not exist)

RTDMD_SRV - Any type of B-channel demand service is allowed:
- Circuit switched voice (CSV) (including default service)
- Circuit switched data (CSD)
- On demand B-channel packet (ODP)

These B-channel services are assigned at the user level (in RLlpt_pt).

RT_X25 - Provisioned X.25 packet switching service only on the DSL B-channel. [The sop capability is PPB].

This attribute not used by EDSL; populate with RTNO_SRV for EDSL D-ports.

This attribute not used by OSPS-EDSL; populate with RTNO_SRV for OSPS-EDSL D-ports.

DSL data links to application processors use only the D-channel and must have this attribute populated with RTNO_SRV.

For XAT ports, populate with RT_X25. This indicates that the XAT port is provisioned for B-channel X.25 packet switching service only. For X.75 trunks, b1serv is equal to RTNO_SRC.

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## 5. DSLEQUIP Population rules continued.

**Attribute:**
b2serv
**Fullname:**
Type of ISDN service allowed on channel B2
**Attribute Description:**
The rules are the same as for 'b1serv' except they apply channel B2.

This attribute not used by EDSL; populate with RTNO_SRV for EDSL D-ports.

This attribute not used by OSPS-EDSL; populate with RTNO_SRV for OSPS-EDSL D-ports.

This attribute is not used by XAT portp populate with RTNO_SRV for XAT ports. For X.75 trunks, b2serv is equal to RTNO_SRC.

**Attribute:**
timeslot
**Fullname:**
Timeslot on the DPIDB the DSL is assigned
**Attribute Description:**
The timeslot on the DPIDB the DSL is assigned. Only valid for DSLs on an AIU/ISLU(2). Must be zero for RISLU DSLs. Valid range is 0 - 31. Default to zero. RC and ODA must allow this value to be optionally input.

If not input for an AIU/ISLU(2) DSL, RC and ODA must assign the timeslots. See RLislulgc for (R)ISLU, RLislu2lg for ISLU2 assignment rules, or RLaiu2ap for AIU.
The timeslot assignment must be preserved across retrofit and any other off-line ODA process.

If not input for an IDCU DSL, ODA and RC should pick a timeslot. See the RC-ODA rules section for rules governing the choice.

This attribute is not applicable for EDSL; populate with default for EDSL D-ports.

This attribute is not applicable for OSPS-EDSL; populate with default for OSPS-EDSL D-ports.

This attribute is not used by XAT port or by X.75 trunk ports.

**Attribute:**
ds1
**Fullname:**
Digital signal level 1 (DS1) internal circuit name

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**Attribute Description:**

This attribute is used to denote the DS1 on an IDCU/DNU-S which carries the D-channels or B-channels for a given DSL. EOC and TMC data links for TR303 RTs are also treated as DSLs.

This attribute is zero for ports terminating on any peripheral other than an IDCU/DNU-S. For an IDCU, this must be a PCIFAC circuit terminating on the IDCU. For a DNU-S, this must be a PCRDTDS1 circuit terminating on a DNU-S.

**Attribute:**

ds1_ts

**Fullname:**

Timeslot number on a DS1

**Attribute Description:**

This attribute is the timeslot number (0 to 23) on a DS1 which carries the D-channels or B-channels for a given DSL. EOC and TMC data links for TR303 RTs are also treated as DSLs.

This attribute is zero for ports terminating on any peripheral other than an IDCU/DNU-S. For an IDCU/DNU-S, this can be any value between 0 and 23. This DSL must be documented in RLds1_pt (keyed by RLdslequip.ds1).

**Attribute:**

maxterm

**Fullname:**

Maximum number of terminals

**Attribute Description:**

The maximum number of terminals that can be active on this DSL. The summation of all the RLdslequip.maxterm attributes on the SM will give the value of Glmaxterm. This represents the maximum number of ISDN terminals that are allowed to be simultaneously active on the SM. For an RC update, Glmaxterm is less than or equal to (DBQNTEILA - DBSFTEILA). For more information refer to the Glmaxterm poprules.

If 'dserv' is PSADMIN, then set to zero, otherwise, if briclass is BRI_PP or BRI_STD, then 'maxterm' should default to one. Otherwise, set the attribute to two.

This attribute is not applicable for OSPS-EDSL; populate with default for OSPS-EDSL D-ports.

This attribute is not used by XAT port or by X.75 trunk ports.

**Attribute:**

qts

**Fullname:**

Quarter time slot

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**Attribute Description:**

The quarter timeslot the DSL is assigned.

Only valid for DSLs on AIU/ISLU(2)/IDCU/DNU-S. Must be zero for RISLU DSLs. If the DSL uses more than one quarter timeslot, use the lowest quarter timeslot number available. All DSLs use D-channels of 1/4 timeslot bandwidth.

This attribute is not applicable for EDSL; populate with default for EDSL D-ports.

This attribute is not applicable for OSPS-EDSL; populate with default for OSPS-EDSL D-ports.

This attribute is not used by XAT port or by X.75 trunk ports.

Note: For DSLs on IDCU, the 'qts' attribute defines which quarter timeslot for both the DPIDB and the IDCU facility. (This is because the IDCU cannot switch quarter timeslots so therefore the D-channel must be in the same quarter timeslot from the RT to the PH.)

All four quarter timeslots within a given DPIDB timeslot and ISDN facility (IFAC) timeslot must terminate on the same RT and PH.

**Attribute:**

dserv

**Fullname:**

D-channel service

**Attribute Description:**

This attribute describes the service on a DSL D-channel.

For DSLEQUIP tuples that define ISDN DSL D-channel ports (FC_PORTTYP.servclass is equal to FC_ISDN, and FC_PORTTYP.lp_type is equal to PCD_CHAN/PCUD_CHAN), 'dserv' equals PSSX. The reason that both signaling and packet are always allowed at the D-channel-level is that D-channel services are assigned at the user level (in RLSPID).

One exception to this is an ISDN DSL D-channel that is a member of a modem pool MLHG. In that case, 'dserv' equals PSXMP. PSXMP is not allowed on standard BRI ('briclass' equal to BRI_STD).

For DSLEQUIP tuples that define ports other than DSL D-channels (eg., packet B-channels, internal protocol trunks, X.75' trunks, inter-SM packet links, EDSL, OSPS-EDSL, and ports for current export applications), 'dserv' is equal to PS_NA.

For non-ISDN special application DSLs where the D-channel is used:

| FC_PORTTYP.servclass | dserv |
|---|---|

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| | |
|---|---|
| OA_DAOPER | PSSONLY or PSSX |
| FC_DASC | PSSONLY |
| AS_OAP | PSSONLY |
| HM_RAS | PSSONLY |
| OA_TAOPER | PSSX or PSSONLY |
| FC_RTRS | PSSONLY |
| FC_HOBIS | PSSONLY |
| FC_HOTVT | PSSONLY |
| FC_HOTRT | PSSONLY |
| OA_AQDSL | PSSONLY |
| TM_XDB (D-channel) | PSADMIN |
| TM_XDB (B-channel) | PS_NA |
| AS_TCPIP (D-channel) | PSADMIN |
| AS_TCPIP (B-channel) | PSTCPSRV |
| OA_MIS_LNK | PSSONLY |
| PS_APDSL | PSSONLY |
| CCS_STSS7 | PS_NA |
| MSG_DELV | PS_NA |
| FC_EIS_LNK | PSSONLY |

For ISDN ports, see the detailed poprules in the diagram entitled, 'ISDN poprules'.

For applications processor (AP) DSLs, the DSLs are signal only (dserv equals PSSONLY) since they are used for SMP-to-AP X.25 level 3 signaling and not for PH-PH packet switching.

This attribute is not used by XAT port. Therefore it should be set to PS_NA. This attribute is not used by X.75 trunk ports.

**Attribute:**

briclass

**Fullname:**

Basic rate interface class

**Attribute Description:**

This attribute specifies the BRI class marking:

Point-to-point BRI - This BRI class supports a single terminal (ignores the SPID).

Multipoint BRI - This BRI class can support multiple terminals. Custom (Lucent Technologies Proprietary) protocol used.

Standard BRI - This BRI class can support multiple terminals. Standard (Telcordia Technologies compliant) protocol used.

BRI class is used for BRI D-Channels with servclass = FC_ISDN, FC_ISATND. For all other ports it is defaulted to Point-to-Point.

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Note: In order to allow Standard to be
the RC view default for ISDN BRI D-channels,
the zero value is assigned to Standard.
However, the relation default is Point-to-Point for all
ports except the BRI D-channels with a servclass of
FC_ISDN and FC_ISATND.

This attribute is not used by XAT port or by X.75 trunk ports.

**Attribute:**
bind_lport
**Fullname:**
Binding logical port
**Attribute Description:**
The logical port value to be used for USOP binding for
a terminals on a point-to-point BRI or a single terminal
on a restricted multipoint BRI (see RC-ODA rules section).

This attribute is not used by XAT port or by X.75 trunk ports.
This attribute is not used by standard BRI.

**Attribute:**
bind_lptype
**Fullname:**
Binding logical type
**Attribute Description:**
The logical port type values to be used for USOP binding for a
terminal on a point-to-point BRI or a for a single terminal on
a restricted multipoint BRI (see RC-ODA rules).

This attribute is not used by XAT portp populate with LPT_PKT
for XAT ports. This attribute is not used by X.75 trunk ports.

For standard BRI (RLdslequip.briclass equals BRI_STD) bind_lptype
is not used, and must equal the default value, LPT_ISDN.

**Attribute:**
ppb1_pty
**Fullname:**
Party associated with PPB1
**Attribute Description:**
The party associated with PPB1. This is used by RC
for administration.

This attribute is not used by XAT portp populate with FCP_NULL for
XAT ports. This attribute is not used by X.75 trunk ports.

Note: OSPS implements a permanent packet B channel, but is not
associated with any user.

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Default is FCP_NULL.

**Attribute:**
ppb2_pty
**Fullname:**
Party associated with PPB2
**Attribute Description:**
The party associated with PPB2. This is used by RC for administration.

This attribute is not used by XAT port; populate with FCP_NULL for XAT ports. This attribute is not used by X.75 trunk ports.

Note: OSPS implements a permanent packet B channel, but is not associated with any user.

Default is FCP_NULL.

**Attribute:**
dpktmax
**Fullname:**
Maximum D-channel packet users allowed
**Attribute Description:**
This attribute contains the maximum number of ISDN DSL D-channel packet users allowed on this DSL.

This attribute is not used by XAT port; populate with zero for XAT ports. This attribute is not used by X.75 trunk ports.

**Attribute:**
dpkt_cnt
**Fullname:**
D-channel packet users count
**Attribute Description:**
This attribute indicates the number of ISDN DSL D-channel packet users defined on this DSL. This is used by RC/V for administration.

This attribute is not used by XAT port or by X.75 trunk ports.

**Attribute:**
ptymlhg
**Fullname:**
Circuit MLHG party
**Attribute Description:**
The circuit MLHG party values that are in use on this BRI. Each bit within this eight-bit field identifies whether or not a particular party value is a member of circuit MLHG. This attribute must also be populated for secondary only circuit MLHG members such that the bit will be set for the party where the primary DN of the terminal key system resides.

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```
 ---------------------------------
 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |  <---- party value
 ---------------------------------
 msb                           lsb

 0 = party is not a member of MLHG
 1 = party is a member of MLHG
```

This attribute is not used by XAT port; populate with zero for XAT ports. This attribute is not used by X.75 trunk ports.

**Attribute:**
ptyequip
**Fullname:**
Party that in use for this BRI
**Attribute Description:**
The party values that are subscribed to on this BRI. Each bit within this eight-bit field identifies whether a particular party value is subscribed to on this BRI. All 1's indicate that the BRI has the maximum eight USOPs. A party value exists for each USOP that is subscribed to on this BRI.

```
 ---------------------------------
 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |  <--- party value
 ---------------------------------
 msb                           lsb

 0 = party value is not in use on this BRI
 1 = party value is in use on this BRI
```

Note: For OSPS DSLs, if the dserv attribute is set to PSSX, ptyequip should be set to one because there is a D packet user with a party value of zero. OSPS does not populate RLlpt_pt.

This attribute is not used by XAT port; populate with zero for XAT ports. This attribute is not used by X.75 trunk ports.

**Attribute:**
dflt_gpid
**Fullname:**
Default service group ID
**Attribute Description:**
The default service BFGID of the default group to which this BRI has subscribed. A zero value implies that this BRI does not have default service.

This attribute may be populated "automatically" by RC/ODA when a DSL is assigned. Automatically means populated without an entry for default service being made on the view/form.

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For automatic population to be done, the global parameter Gldfltsrv must be populated with the default service BFGID, and SFID 238 must be active. Also see dflt_lport.

This attribute is not used by XAT port or by X.75 trunk ports.

**Attribute:**
dflt_lport
**Fullname:**
Default service lport associated with this BRI
**Attribute Description:**
The default service lport associated with this BRI This is used the key for dynamic data (TEDB VPORT). The lpt_type associated with this lport is LPT_BFG. Refer to pop rules in RLrc_qidx and RLrc_lphol for lport administration. A value of zero implies that this BRI does not have default service.

This attribute is populated when dflt_gpid is populated.

Users on a given DSL may not use both default service (dflt_lport) and circuit default DN service (cddn_lport). Provisioning does not prevent both of these services from being assigned on one DSL. If both are assigned, call processing only allows use of circuit default DN and blocks use of default service.

This attribute is not used by XAT port or by X.75 trunk ports.

**Attribute:**
acsr_gpid
**Fullname:**
Automatic customer station rearrangement (ACSR) group ID
**Attribute Description:**
The ACSR group ID of the ACSR group associated with this BRI. A zero value implies that the BRI is not associated with an ACSR group.

Standard BRIs are not allowed to belong to an ACSR group. This attribute is not used by XAT port or by X.75 trunk ports.

**Attribute:**
acsr_inh
**Fullname:**
ACSR inhibited on this BRI
**Attribute Description:**
Indicates whether use of ACSR is inhibited on this BRI. RC/V users have the ability to allow/disallow ACSR on a per-BRI basis.

This attribute is not used by XAT port; populate with DBYES for XAT ports. Do not use default value. This attribute is not used

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by X.75 trunk ports.

DBYES - ACSR is not allowed.
DBNO - ACSR is allowed.

**Attribute:**
cut_noc
**Fullname:**
Normalized office code associated with the cutover
**Attribute Description:**
Specifies a valid NOC associated with the DSL during the time the cutover program is active. It is used with the 'thousands group' digit (cut_d4) to determine the line state of this DSL (whether inactive or active) during a cutover by thousands group (that is, tuples in the relation RLthcostat).

For the DSL port, the NOC is designated as the 'lead NOC' (cut_noc) of the port. It is used with the 'lead thousands group' digit (cut_d4) to determine the line state of this DSL and to allow management of the DSL port as a single entity. This 'lead NOC' can be the NOC of any equipped CPE associated with this DSL which is planned to be cutover, or a valid NOC selected specifically by the OTC for use in controlling cutover operation.

Note 1: A valid NOC is one that is defined in RLofficecode.noc and RLnoccode.noc.
Note 2: For information refer to Att 5D5-105-200 Precutover and Cutover Procedures.

**Attribute:**
cut_d4
**Fullname:**
The thousands digit associated with the cutover
**Attribute Description:**
Specifies the 'thousands group' digit associated with the DSL during the time the cutover program is active. It is used with the NOC to determine the line state of this DSL (whether inactive or active) during a cutover by thousands group (that is, tuples in the relation RLthcostat).

For the DSL port, the 'thousands group' digit is designated as the 'lead thousands group' digit of the port. It is used with the 'lead NOC' (cut_noc) to determine the line state of this DSL and to allow management of the DSL port as a single entity. This 'lead thousands group' digit can be the thousands group digit of the equipped CPE associated with the DSL which is planned to be cutover, or a valid thousand group digit selected specifically by the OTC for use in controlling cutover operation.

**Attribute:**

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is_dte

**Fullname:**

This is a data terminal equipment (DTE) connection

**Attribute Description:**

Indicates whether this is a DTE connection. This attribute is used to determine the Q.921/LAPD (layer 2) protocol procedures used by this application. This information is sent to Layer 2 when the application is brought into service to tell Layer 2 LAPD how the command/poll bits are sent and interpreted.

Currently. this field is only populated for PRI D-channels and ISM nailups. For unsupported applications, this attribute should be set to DBNO.

For PRI D-channel (RLfc_porttyp.servclass equals FCEDSL and RLfc_porttyp.lp_type equals PCTDCHAN), is_dte is also used to resolve SETUP glare for PRI CSV and CSD calls.

DBYES - Indicates user side procedures.
DBNO - Indicates network side procedures.

For the PRI, one end of the interface must be identified as user side and the other end as network side. There are no assignment rules about which end is user side and which end is network side, only this general guideline: a private network switch connected to a public network switch normally would be the user side, and the public network switch would be the network side. Similar to any trunk option, this assignment must be coordinated with the office at the other end of this PRI.

For PRI, the 'q931proc' attribute is dependent on this attribute. Please refer to the 'q931proc' description for an explanation of this dependency.

For ISM nailups (Rlfc_porttyp.servclass equals PSPKT_ISM,) this field must match the RLismpath.master field. ISM nailups do not use the 'q931proc' field.

**Attribute:**

q931proc

**Fullname:**

Q.931 procedures

**Attribute Description:**

Identifies the Q.931 (layer 3) procedures to be used for PRI CSV and CSD calls associated to this PRI D-channel (for PRI D-channels RLfc_porttyp.servclass equals FCEDSL and RLfc_porttyp.lp_type equals PCTDCHAN).

NETWORK - Indicates network procedures.
SYM_USER - Indicates symmetrical user procedures.

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For ports which are not a PRI D-channel this attribute should be set to NETWORK.

Note: The assignment of this field is dependent on the assignment of the 'is_dte' attribute. If the 'is_dte' attribute is set to DBYES (user side), then this attribute must be set to SYM_USER (symmetrical user). Other than this rule, there is only a general guideline which is suggested from the Lucent Technologies PRI Specification;

- If this PRI is connected in a PBX to PBX configuration, both ends if the interface should use symmetrical user procedures (q931proc equals SYM_USER).

In this configuration the assignment of the layer 2 procedures are arbitrary other than one end of the interface must be user side (is_dte equals DBYES) and the other end must be network side (is_dte equals DBNO).

Similar to the 'is_dte' option, this assignment must be coordinated with the office at the other end of this PRI.

Although q931proc is set to SYM_USER, this attribute is not used for inter-SM nailups.

**Attribute:**

odb_mhg

**Fullname:**

Packet on demand B-channel MLHG member

**Attribute Description:**

The packet ODB MLHG party values that are in use on this BRI. Each bit within this eight-bit field identifies whether or not a particular party value is a member of a packet MLHG.

```
---------------------------------
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |  <---- party value
---------------------------------
 msb                         lsb
```

0 = party is not a member of MLHG
1 = party is a member of MLHG

For each packet ODB MLHG party with its bit set to one, then the corresponding 'ptyequip' bit must be also set to one.

A tuple must exist in RLodpsop for each assigned party. For the B-channels that appear in RLodpsop there must be a corresponding tuple in RLpsprt_grp.

Only ISDN D-channels can have a non zero value for 'odb_mhg'.

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**Attribute:**
agipty[*]
**Fullname:**
Associated group member
**Attribute Description:**
For each terminal that is a member of an associated group, the bit corresponding to that terminal will be set to one. This bitmap will be used by the one B-channel per user capability to know which terminals belong to an associated group. Either each terminal on a DSL with demand B-channel service will belong to one of two AGI groups, or none of the terminals on a DSL will belong to an AGI. A terminal can not belong to more than one AGI. One bitmap exists for every AGI that is allowed.

There are 2 AGIs that may exist.

```
 ---------------------------------
 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |  <---- party value
 ---------------------------------
 msb                           lsb
```

0 = party is not a member of an associated group
1 = party is a member of an associated group

For example, if parties 0 and 3 are in AGI 1, and parties 1, 2, 4, and 5 are in AGI2, the AGI1 bitmap will be set as:

```
 ---------------------------------
 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
 ---------------------------------
 msb                           lsb
```

The value of AGI2 would be:

```
 ---------------------------------
 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |
 ---------------------------------
 msb                           lsb
```

This attribute is only applicable to standard BRIs. If this is not a standard BRI, the bitmap must contain all zeros.

**Attribute:**
demand_bchan
**Fullname:**
Demand B-channel
**Attribute Description:**
This is a bitfield variable which represents whether or not demand B-channel service is provided for each party on this DSL.

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**Attribute:**
dsl_ffcf1
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
Boolean reserved for future field feature.

**Attribute:**
pfixtei
**Fullname:**
Fixed Terminal Endpoint Identifier
**Attribute Description:**
This attribute is used to indicate if any fixed TEIs are assigned on the port. If the 'pfixtei' attribute is set to DBYES, then BRI class must equal BRI_STD and a tuple must exist in RLpfixtei where RLpfixtei.port must equal RLdslequip.dsl.

**Attribute:**
cddn_lport
**Fullname:**
Circuit Default Directory Number
**Attribute Description:**
This attribute is the Circuit lport of the circuit user assigned as default DN. This imples that the user lpt_type = LPT_ISDN. If the 'cddn_lport' attribute value is non zero it implies that BRI has a circuit default dn, the corresponding RLspid tuple must have ddn equal DBYES.

Users on a given DSL may not use both default service (dflt_lport) and circuit default DN service (cddn_lport). Provisioning does not prevent both of these services from being assigned on one DSL. If both are assigned, call processing only allows use of circuit default DN and blocks use of default service.

**Attribute:**
pddn_lport
**Fullname:**
Packet Default Directory Number
**Attribute Description:**
This attribute is the Packet lport of the packet user assigned as default DN. This imples that the user lpt_type = LPT_PKT. This could be On-Demand B packet or Permanent packet lports and if both assigned, On-Demand B packet lport takes precedence over Permanent packet D lport. Both cddn_lport & pddn_lport could belong to the same user or to different users. If the 'pddn_lport' attribute value is non zero it implies that BRI has a packet default dn, and the corresponding RLspid tuple must have ddn equal DBYES. If RLspid tuple has both the RLspid.ppd_lport and RLspid.odp_lport values equal to non zero, then RLpsx25ln.chan_sel must equal DBYES.

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**Attribute:**
pcr_n1
**Fullname:**
Preventive Cycle Retransmission N1 threshold of Message Signal Units (MSUs).
**Attribute Description:**
This is the threshold of the number of MSUs in the retransmission buffer of a Signaling Data Link (SdL, ST DLT), which if exceeded the Preventive Cyclic Retransmission (PCR) SdL protocol (this is assigned to a DLT by setting the l2prof attribute to PSCSTDLT) enters the forced retransmission state.

Forced retransmission means that PCR will continue to retransmit all the MSUs stored in the retransmission buffer in sequence ignoring all new MSUs, until enough MSUs have been acknowledged to reduce the number stored in the buffer to below the value of pcr_n1.

**Attribute:**
pcr_n2
**Fullname:**
Preventive Cycle Retransmission N2 threshold of octets.
**Attribute Description:**
This is the threshold of the number of Message Signal Unit (MSUs) octets in the retransmission buffer of an SDLs, which if exceeded PCR enters the forced retransmission state.

Forced retransmission means that PCR will continue to retransmit all the MSUs stored in the retransmission buffer in sequence ignoring all new MSUs, until enough MSUs have been acknowledged to reduce the number stored in the buffer to below the value of pcr_n2.

**Attribute:**
dsl_prex
**Fullname:**
Enable or disable REX testing on per DSL basis (per line circuit)
**Attribute Description:**
This is a boolean used to enable or disable REX testing of individual ISDN line circuit. This attribute is secured by sfid - 267 - Prohibit Routine Exercise (REX) on Basic Rate Interface (BRI) - (Individual line). DBYES implies that REX is prohibited on the line circuit of the dsl.

**Attribute:**
dsl_inv
**Fullname:**
DSL Inverted

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**Attribute Description:**

This is a boolean ued to indicate if this packet pipe uses inverted data, on a trunk group basis. This data is sent to the PH4 on initialization of packet pipes.

**Attribute:**

dsl_tscnt

**Fullname:**

DSL Time Slot Count

**Attribute Description:**

Indicate how many timeslots for this Packet Pipe trunk group member.

**Defines:**

"db/DMparty.h",
"db/DMport.h",
"db/DMportindx.h",
"db/DMcircuit.h"

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# DSLGDATA

## 1. Description

This relation defines when at least 1 member (DSL) in a DSL_Group (that is, logical PH) has been assigned in relations RLEQUIPDSL and RLDSLEQUIP. This relation also defines the application type of the logical PH. This relation will always have 96 tuples. In addition this relation defines the PH hardware type on which each channel group must run.

For PHA channel groups, there won't be any tuple populated in RLdslequip or RLequipdsl as there is no port associated with a PHA channel group. RLpsulnk relation defines a PHA link, and will have the information on PHA channel groups, and it's mate PHA's channel groups. Hence, for PHA, the association between RLdslequip and RLdslgdata will be replaced by RLpsulnk and RLdslgdata.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum 96 tuples in relation | 96 |
| expected tuples in relation | 96 |
| density | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | SMcg_to_hw |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
DSLGDATA    relid = 184   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     usr_cnt     DMUNS10      (ushort: 10)
     cdma_cnt    DMUNS6       (ushort: 6)
     dslg_cnt    DMUCHAR      (uchar)
     ism_cnt     DMUCHAR      (uchar)
     trk_cnt     DMUCHAR      (uchar)
     mlhg_cnt    DMUCHAR      (uchar)
     x75p_cnt    DMUCHAR      (uchar)
     dpkt_cnt    DMUCHAR      (uchar)
     ts_cnt      DMUCHAR      (uchar)
     x75_cnt     DMUCHAR      (uchar)
     svc_cnt     DMUNS8       (ushort: 8)
     dsl_group   DMPHNBR      (uchar: 7)        <--- key
 (a) assigned    DMBOOL       (enum: 1)
     adt_cnt     DMUNS7       (ushort: 7)
     dsltype     DMDSLTYPE    (enum: 5)
     qphindx     DMUNS5       (ushort: 5)
     hw_type     DMPHHW       (enum: 4)
         User, Compacted and Stored Tuple Layout   DSLGDATA
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |           |               |               |
  0 |      usr_cnt      |  cdma_cnt |    dslg_cnt   |    ism_cnt    |
    |---------------+---------------+---------------+---------------|
```

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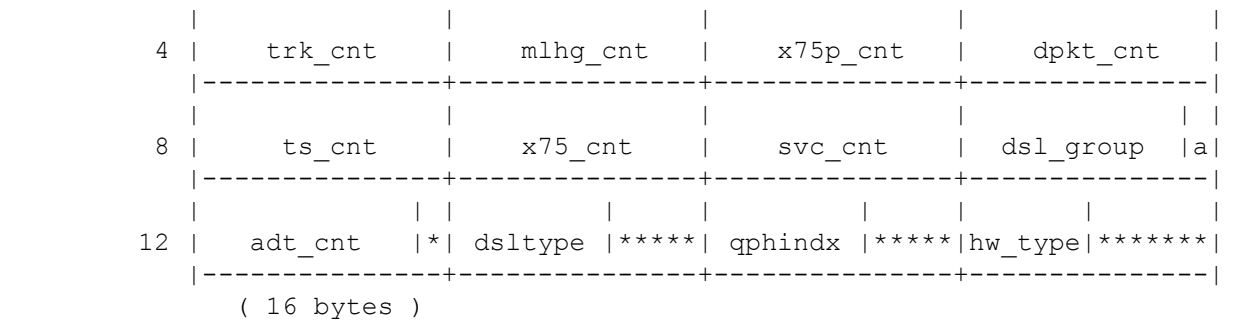


## 4. Population rules for RLdslgdata

### Relation Description

This relation defines when at least 1 member (DSL) in a DSL_Group has been assigned in relations RLequipdsl and RLdslequip.

This relation defines when at least 1 member (DSL) in a DSL_Group has been assigned in relations RLequipdsl and RLdslequip or a PHA link is defined in RLpsulnk for PHA application. It also defines the type of application assigned to this DSL-Group and the PH hardware type. This relation will always have 96 tuples.

For IDCU, the EOC and TMC data links to TR303 remote terminals (RTs) use time slots to the protocol handler.

In this relation, EOCs and TMCs are defined and populated similar but not identical to DSLs. EOC and TMCs use a full timeslot similar to a DSL B channel.

"A. Special Population Rule
This relation is only to be populated when the ISDNBASE Feature Package is loaded. This relation need only be populated in those SMs in which the ISDNBASE feature is loaded.

B. RLdslgdata (Logical PH Data Summary Relation)
This relation provides summary information about a DSL-Group (that is, logical PH).
It is used to determine if any members in a DSL-Group have been assigned and it defines the Application Type that has been assigned to the DSL-Group.
It is also used to determine which PH hardware type this DSL-Group must run on.
If a DSL-Group contains only DSL (D or B-channel including EDSL or OSPS interflow, XAT, or EOC/TMC data links) member assignments, it will have a type of PS_DSLG.
If a DSL-Group contains only Inter-SM member assignments, it will have a type of PS_ISM.
If a DSL-Group contains only Inter-Switch trunk member assignments, it will have a type of PS_TRK.
If a DSL-Group contains only X.75' trunk member assignments, it will

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have a type of PS_X75P.
If a DSL-Group contains only X.75 trunk member assignments, it will have a type of PS_X75.
If a DSL-Group contains a mixture of 2 or more of the previous member assignments, it will have a type of PS_MIXED.

C. Notes (Integrity Check)

This relation is based on the tuples populated in RLEQUIPDSL. Therefore, if any DSL-Groups are populated in RLEQUIPDSL, then the corresponding DSL-Group assigned attribute must be populated to DBYES. Note that if no tuples exist in RLDSLEQUIP, then all assigned attributes are populated to DBNO. Also, this relation is not to be populated if the ISDNBASE Feature Package is not loaded.

D. Special Limits and Restrictions:

Due to hardware restrictions on the PH1 (alias PH16) the following rules will be put into effect. The hardware restrictions will change when new versions of the PH are available and this population rule should be changed according. This hardware type does not exist in 5E6 and later generics.

1) For 5E6, one and only one Inter-SM channel, IP, X.75' or X.75 Trunk may exist on a PH (see RLdslequip poprules for more information): therefore, ism_cnt and trk_cnt and x75_cnt and x75p_cnt should not exceed 1.
   For 5E7 and later, up to 6 IP, X.75' or X.75 members can exist on a DSL-Group with RLdslgdata.hw_type=SMPH3.

   For 5E10 and later, up to 6 IP, X.75' or X.75 members can exist on a DSL-Group with RLdslgdata.hw_type=SMPH4.
2) PH applications cannot be mixed: therefore, a dsltype of PS_MIXED is invalid and the following validity checks should be made.

   if ism_cnt >0 then dslg_cnt,trk_cnt,x75p_cnt,x75_cnt must=0.
   if dslg_cnt >0 then ism_cnt,trk_cnt,x75p_cnt,x75_cnt must=0.
   if trk_cnt >0 then dslg_cnt,ism_cnt,x75p_cnt,x75_cnt must=0.
   if x75p_cnt >0 then ism_cnt,dslg_cnt,trk_cnt,x75_cnt must=0.
   if x75_cnt >0 then ism_cnt,dslg_cnt,trk_cnt,x75_cnt must=0.

3) Due to hardware restrictions on the PH2 (alias PH128), the following rules will be put into effect.

   b) There can be maximum of 32 Inter-SM channels exist on a PH, therefore, ism_cnt should not exceed 32.

   a) Rule (2) of the previous restrictions: PH applications cannot be mixed, still applicable in PH128.

4) Whenever a new PH hardware type is added, SMIM local data SMhwty_image[][] and SMimage_hwty{} must be updated also.

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E. Notes for 5E9

X.25 Packet Switching will no longer be supported on the
PH2 Access Image, and will now only be supported on PH3's."

F. Notes for 5E10

X.25 Packet Switching will also be supported on PH4s.

**Attribute:**
dsl_group
**Fullname:**
DSL Group number.
**Attribute Description:**
DSL Group number to which DSL (D-Port) can be assigned. A dsl_group is also defined as a logical PH upon which B-channel, Inter-SM/Switch, EDSL or X.75' trunk ports can be assigned. For XAT ports this is the DSL group number to which an XAT port is being assigned. The DSL group number is determined by the Protocol Handler shelf and PH number entered via RCV/ODA.

When assigned field of the first RLdslgdata tuple is updated to DBYES on any loaded switching module, a RLdb_amgpd, RLdb_imgpd, and RLdb_gpdus tuple must be populated with grp_type = GPDISDN, grp_id = 0 such that

1. The RLdb_amgpd tuple must be updated such that
   RLdb_amgpd.grp_type = GPDISDN
   RLdb_amgpd.grp_id = 0
   and the bit associated with that module in pcr_map1,.., pcr_map7
   must set to 1.
2. A RLdb_imgpd tuple must be inserted on that module such that
   RLdb_imgpd.grp_type = GPDISDN
   RLdb_imgpd.grp_id = 0
   RLdb_imgpd.localflag = DBNO
3. A RLdb_gpdus tuple must be inserted on the AM such that
   RLdb_gdpus.grp_type = GPDISDN
   RLdb_gdpus.grp_id = 0
   RLdb_gdpus.module = number of that module.

X.25 Packet Switching will no longer be supported on the
PH2 Access Image, and will now only be supported on PH3's.

As of 5E10, X.25 Packet Switching will also be supported on
PH4s.

**Attribute:**
assigned
**Fullname:**

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indicates if any ports have been assigned to the logical PH.

**Attribute Description:**

Populate with DBYES whenever there is a populated tuple in RLequipdsl for the corresponding DSL-Group (that is, logical PH) or a member from this DSLGRP is assigned to ODPSOP for B-Channel ODB Packet Switching. If there are no populated tuples in RLequipdsl or no channels assigned to ODP users for the corresponding DSL-Group, then populate with DBNO.

Note that when RLdslgdata.assigned = DBNO, then:
RLdslgdata.dsltype = PS_NULL, RLdslgdata.dslg_cnt = 0,
RLdslgdata.mlhg_cnt = 0, RLdslgdata.dpkt_cnt = 0,
RLdslgdata.usr_cnt = 0, RLdslgdata.ts_cnt = 0,
RLdslgdata.x75p_cnt = 0, RLdslgdata.ism_cnt = 0,
RLdslgdata.trk_cnt = 0 RLdslgdata.x75_cnt = 0,

If RLdslgdata.assigned = DBYES, RLdslgdata.hw_type must be populated with the PH hardware type.

This attribute can be changed from DBNO to DBYES only if the resulting number of non-empty DSL groups on the shelf does not cause the number of spare PHs to be less than the required minimum number of spare PHs, specified in RLpsiupidb (see rdl/poprules/RLpsiupidb.P for details).

This attribute can be changed from DBNO to DBYES only if the RLdslgdata.hw_type = {SMPH2,SMPH3,SMPH4,SMPH22}.

When this attribute is changed from DBNO to DBYES or from DBYES to DBNO, then the attribute 'num_grp' in RLpsiupidb must be updated accordingly for the appropriate hardware type.

**Attribute:**

dsltype

**Fullname:**

The application type that has been assigned to this DSL Group.

**Attribute Description:**

If RLdslgdata.assigned = DBNO then RLdslgdata.dsltype = PS_NULL
If RLdslgdata.assigned = DBYES then:

RLdslgdata.dsltype = PS_ISM (for all Inter-SM applications) and
RLdslgdata.dslg_cnt = 0,
RLdslgdata.mlhg_cnt = 0,RLdslgdata.dpkt_cnt = 0,
RLdslgdata.usr_cnt = 0,RLdslgdata.ts_cnt = 0,
RLdslgdata.trk_cnt = 0,RLdslgdata.x75p_cnt= 0,
RLdslgdata.x75_cnt= 0, and RLdslgdata.ism_cnt > 0

RLdslgdata.dsltype = PS_TRK (for all Inter-Switch IP
trunk applications)
RLdslgdata.ism_cnt = 0, RLdslgdata.x75_cnt = 0,
RLdslgdata.dslg_cnt = 0,RLdslgdata.x75p_cnt = 0,
RLdslgdata.mlhg_cnt = 0,RLdslgdata.dpkt_cnt = 0,
RLdslgdata.usr_cnt = 0,RLdslgdata.ts_cnt = 0,

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```
            and RLdslgdata.trk_cnt > 0 but <= 6

        RLdslgdata.dsltype = PS_X75P (for all X.75' trunk
            applications)
            RLdslgdata.dslg_cnt = 0, RLdslgdata.x75_cnt = 0,
            RLdslgdata.mlhg_cnt = 0,RLdslgdata.dpkt_cnt = 0,
            RLdslgdata.usr_cnt  = 0,RLdslgdata.ts_cnt = 0,
            RLdslgdata.trk_cnt = 0,RLdslgdata.ism_cnt = 0,
            and RLdslgdata.x75p_cnt > 0 but <= 6

        RLdslgdata.dsltype = PS_X75 (for all X.75 trunk
            applications)
            RLdslgdata.dslg_cnt = 0, RLdslgdata.x75p_cnt = 0,
            RLdslgdata.mlhg_cnt = 0,RLdslgdata.dpkt_cnt = 0,
            RLdslgdata.usr_cnt  = 0,RLdslgdata.ts_cnt = 0,
            RLdslgdata.trk_cnt = 0,RLdslgdata.ism_cnt = 0,
            and RLdslgdata.x75_cnt > 0 but <= 6

        RLdslgdata.dsltype = PS_DSLG (for all DSL applications
            include XAT ports, EOC/TMC data links, EDSL
            and OSPS interflow)
            RLdslgdata.ism_cnt = 0,
            RLdslgdata.x75p_cnt = 0, RLdslgdata.x75_cnt = 0,
            RLdslgdata.trk_cnt = 0, and RLdslgdata.dslg_cnt > 0

        RLdslgdata.dsltype = PS_ST7 (for all SS7 DLT applications)
            RLdslgdata.mlhg_cnt = 0, RLdslgdata.dpkt_cnt = 0,
            RLdslgdata.usr_cnt  = 0, RLdslgdata.ts_cnt = 0,
            RLdslgdata.trk_cnt = 0,  RLdslgdata.ism_cnt = 0,
            RLdslgdata.x75_cnt = 0,  RLdslgdata.x75p_cnt = 0,
            RLdslgdata.dslg_cnt > 0 but <= 4

        RLdslgdata.dsltype = PS_MD (for all SS7 MD applications)
            RLdslgdata.mlhg_cnt = 0, RLdslgdata.dpkt_cnt = 0,
            RLdslgdata.usr_cnt  = 0, RLdslgdata.ts_cnt = 0,
            RLdslgdata.trk_cnt = 0,  RLdslgdata.ism_cnt = 1,
            RLdslgdata.x75_cnt = 0,  RLdslgdata.x75p_cnt = 0,
            RLdslgdata.dslg_cnt = 1

        RLdslgdata.dsltype = PS_MDST7 (for all SS7 DLT applications)
            RLdslgdata.mlhg_cnt = 0, RLdslgdata.dpkt_cnt = 0,
            RLdslgdata.usr_cnt  = 0, RLdslgdata.ts_cnt = 0,
            RLdslgdata.trk_cnt = 0,  RLdslgdata.ism_cnt = 1,
            RLdslgdata.x75_cnt = 0,  RLdslgdata.x75p_cnt = 0,
            RLdslgdata.dslg_cnt > 0 but <= 4
```

**Attribute:**

hw_type

**Fullname:**

PH hardware type.

**Attribute Description:**

The default value for this attribute is SMPH_NULL when RLdslgdata.assigned = DBNO. RLdslgdata.hw_type must

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```
change from SMPH_NULL to {SMPH2,SMPH3,SMPH4,SMPH22}
before RLdslgdata.assigned can be updated to DBYES (such as,
the hardware type must be known first before a logical PH
group is built).

For 80186-based PH with 128 channels, RLdslgdata.hw_type = SMPH2
        RLdslgdata.ism_cnt >= 1, or RLdslgdata.trk_cnt= 1, or
        RLdslgdata.x75p_cnt = 1, or RLdslgdata.x75_cnt = 1, or
        RLdslgdata.dslg_cnt >= 1.

For 68030-based PH with 128 channels, RLdslgdata.hw_type = SMPH3
    For 5E6
        RLdslgdata.ism_cnt >= 1, or RLdslgdata.trk_cnt = 1, or
        RLdslgdata.x75p_cnt = 1, or RLdslgdata.x75_cnt = 1, or
        RLdslgdata.dslg_cnt >= 1.
    For 5E7 and later
        RLdslgdata.ism_cnt >= 1, or
        RLdslgdata.trk_cnt > 0 but <= 6, or
        RLdslgdata.x75p_cnt > 0 but <= 6, or
        RLdslgdata.x75_cnt > 0 but <= 6, or
        RLdslgdata.dslg_cnt >= 1.

For 68030 and 68060-based PHs with 128 channels,
    RLdslgdata.hw_type is_in { SMPH4, SMPH22 }
    For 5E10 and later
        RLdslgdata.ism_cnt >= 1, or
        RLdslgdata.trk_cnt > 0 but <= 6, or
        RLdslgdata.x75p_cnt > 0 but <= 6, or
        RLdslgdata.x75_cnt > 0 but <= 6, or
        RLdslgdata.dslg_cnt >= 1.

If the RLdslgdata.hw_type is updated, then 'num_hw' in
RLpsiupidb should be updated accordingly for the particular
PH hardware type.

Populate with SMPH3 and SMPH4 for XAT ports.
```

**Attribute:**

dslg_cnt

**Fullname:**

Indicates the number of members on this logical PH which are assigned to D or B-channel or EOC/TMC applications or ODP users. D-channel applications include XAT, EDSL and OSPS interflow.

It is also used to indicate the number of MD and/or ST DLTs on the logical PH.

**Attribute Description:**

When RLdslgdata.assigned = DBNO, RLdslgdata.dslg_cnt must_equal 0.

Increment when a port is assigned to this logical PH in RLequipdsl and the port's service class in RLfc_porttyp is AS_OAP, FC_DASC,

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FCEDSL, FCEDSLHM, FC_EIS_LNK, FC_HOBIS, FC_HOTRT, FC_HOTVT, FC_ISATND, FC_ISDN, FC_RTRS, HM_RAS, OA_AQDSL, OA_DAOPER, OA_IFOPER, OA_IFTERM, OA_MIS_LNK, OA_TAOPER, PS_APDSL, PS_EOC, PS_TMC, PS_ST7, PS_MD, PS_MDST7 PSX25_T1, or TM_XDB.

Increment when a tuple of RLodpsop is added which has one PH channel assigned from this DSL GRP. Increment by two when a tuple of RLodpsop is added which has two PH channels assigned from this DSL GRP. Increment when a tuple of RLodpsop is updated from one PH channel to two PH channels from this DSL GRP.

Decrement when a tuple is removed from RLequipdsl for this logical PH and its port's service class is the same as previously seen.

Decrement when a tuple of RLodpsop is deleted which has one PH channel assigned from this DSL GRP. Decrement by two when a tuple of RLodpsop is deleted which has two PH channels assigned from this DSL GRP. Decrement when a tuple of RLodpsop is updated from two PH channels to one PH channel from this DSL GRP.

This count must be incremented for each XAT port or EDSL or OSPS interflow D-channel assigned to this DSL group. This count must also be decremented for each XAT port, or EDSL or OSPS interflow D-channel unassigned from this DSL group.

**Attribute:**

ism_cnt

**Fullname:**

Indicates the number of members on this logical PH which are assigned to Inter-SM applications.

**Attribute Description:**

When RLdslgdtat.assigned = DBNO, then RLdslgdata.ism_cnt must_equal 0.
If RLdslgdata.ism_cnt is 1 thru 32, a tuple must exist in RLtscount where:

RLtscount.module = the SM number in which this RLdslgdata tuple resides, and
RLtscount.ism_pidb[] and RLtscount.ism_tsiu must be incremented/decremented for every increment/decrement of ism_cnt.

Increment when a port is assigned to this logical PH in RLequipdsl and the port's service class in RLfc_porttyp is PSPKT_ISM.

Decrement when a tuple is removed from RLequipdsl for this logical PH and its port's service class is the same as previously seen.

This attribute is not used for EOC/TMC data link applications.

**Attribute:**

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trk_cnt

**Fullname:**

Indicates the number of members on this logical PH which are assigned to Inter-Switch trunk applications.

**Attribute Description:**

When RLdslgdata.assigned = DBNO, RLdslgdata.trk_cnt must_equal 0.
If RLdslgdata.trk_cnt >= 1, then one or more tuples must exist in RLtscount
where
RLtscount.module = the SM number in which this RLdslgdata tuple resides, and
RLtscount.ip_pidb[] must be incremented/decremented for every increment/decrement of trk_cnt, and
RLtscount.ip_tsiu must be incremented/decremented twice for every increment/decrement of trk_cnt.

Increment when a port is assigned to this logical PH in RLequipdsl and the port's service class in RLfc_porttyp is PSPKT_TRK.

Decrement when a tuple is removed from RLequipdsl for this logical PH and its port's service class is the same as previously seen.

If this attribute is > 0 then the following attributes must be equal to zero:

dpkt_cnt, usr_cnt, mlhg_cnt, ts_cnt,
dslg_cnt, x75p_cnt, x75_cnt, ism_cnt

If the PH assigned to an IP trunk member is of type PH2 then trk_cnt must be 1.

If the PH assigned to an IP trunk member is of type PH3 or PH4 then trk_cnt may be 1-6 as long as all members on a given PH3 or PH4 are of the same trunk group type (RLdslequip.l2prof = PSISWV) and all member ports are equipped on the same SM.

If the PH assigned to an IP trunk member is attempted to be converted from a PH3 or PH4 to a PH2, the conversion will fail unless only one member is assigned on the PH3 or PH4 and is also assigned to channel 0 of them.

This attribute is not used for EOC/TMC data link applications.

**Attribute:**

mlhg_cnt

**Fullname:**

a count of MLHG hunted lines that are NOT modem pool terminal adapters (MPTA) contained by this PH group.

**Attribute Description:**

RLdslgdata.mlhg_cnt should have as its value the number of tuples in RLpsx25ln whose ph_number is this dsl_group, mhgflg is DBYES, and doesn't belong to a modem pool MLHG.

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Increment when a port thats a member of a MLHG is assigned to this logical PH in RLequipdsl and the dserv attribute is not PSXMP.

Increment when a tuple of RLodpsop is added for a MLHG member which has one PH channel assigned from this DSL GRP. Increment by two when a tuple of RLodpsop is added for a MLHG member which has two PH channels assigned from this DSL GRP. Increment when a tuple of RLodpsop is updated for a MLHG member from one PH channel to two PH channels from this DSL GRP.

Decrement when a tuple is removed for a MLHG member from RLdslequip for this logical PH in RLequipdsl and the dserv attribute is not PSXMP.

Decrement when a tuple of RLodpsop is deleted for a MLHG member which has one PH channel assigned from this DSL GRP. Decrement by two when a tuple of RLodpsop is deleted for a MLHG member which has two PH channels assigned from this DSL GRP. Decrement when a tuple of RLodpsop is updated for a MLHG member from two PH channels to one PH channel from this DSL GRP.

XAT ports maybe members of Multi-Line Hunt Groups and therefore fall into these requirements. This count must be incremented whenever a XAT port thats a member of a MLHG is assigned to this DSL group and decremented whenever a XAT port that a member of a MLHG is unassigned from this DSL group.

This attribute is not used for EOC/TMC data link applications.

**Attribute:**

x75p_cnt

**Fullname:**

a count of the number of members on this logical PH which are assigned to X.75' trunk applications.

**Attribute Description:**

When RLdslgdtat.assigned = DBNO, RLdslgdata.X75p_cnt must_equal 0. If RLdslgdata.x75p_cnt = 1, then a tuple must exist in RLtscount where:

- RLtscount.module = the SM number in which this RLdslgdata tuple resides, and
- RLtscount.x75_pidb[] must be incremented/decremented for every increment/decrement of RLdslgdata.x75p_cnt, and
- RLtscount.x75_tsiu attribute must be incremented or decremented twice for every increment/decrement of RLdslgdata.x75p_cnt.

Increment when a port is assigned to this logical PH in RLequipdsl and the port's service class in RLfc_porttyp is PSX75P_TK.

Decrement when a tuple is removed from RLequipdsl for this logical PH and its port's service class is PSX75P_TK.

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This attribute is not used by X.25 access on a T1 (XAT) port.

This attribute is not used for EOC/TMC data link applications.

If this attribute is > 0 then the following attributes must be equal to zero:

dpkt_cnt, usr_cnt, mlhg_cnt, ts_cnt,
ism_cnt, dslg_cnt, x75_cnt, trk_cnt

If the PH assigned to an X.75' trunk member is of type PH2 then x75p_cnt must be 1.

If the PH assigned to an X.75' trunk member is of type PH3 or PH4 then x75p_cnt may be 1-6 as long as all members on a given PH3 or PH4 are of the same trunk group type (RLdslequip.l2prof = PSX75_P) and all member ports are equipped on the same SM.

If the PH assigned to an X.75' trunk member is attempted to be converted from a PH3 or PH4 to a PH2, the conversion will fail unless only one member is assigned on the PH3 or PH4 and is also assigned to channel 0 of them.

**Attribute:**

dpkt_cnt

**Fullname:**

This attribute is a count of the number of packet users assigned on this DSL group.

**Attribute Description:**

This count includes D-Channel packet users, Permanent Packet B-Channels, On-Demand B-Channels, and XAT channels.

Whenever an RLpsx25ln tuple is inserted on the channel group, the dpkt_cnt attribute should be INCREMENTED.

Conversely, whenever an RLpsx25ln tuple is deleted from the channel group, the dpkt_cnt attribute should be DECREMENTED.

The dpkt_cnt attribute is only allowed to be non-zero if the dsltype attribute is PS_DSLG.

For 5E9 and later, X.25 packet switching calls are not allowed on PH2s. Therefore, the dpkt_cnt attribute is allowed to be non-zero only if the hw_type attribute is SMPH3.

Also for 5E10 and later, the dpkt_cnt attribute is allowed to be non-zero if the hw_type attribute is SMPH4.

If the assigned attribute is DBNO or the dsltype attribute is not PS_DSLG, then the dpkt_cnt attribute must be 0.

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Every packet user (PPD, PPB, ODB, XAT) uses an ALCB (Access Line Control Block) and an LLCB (Logical Link Control Block).

RULES ABOUT ALCBs:
Since there are only 128 Access Line Control Blocks (ALCB) available on each PH, the dpkt_cnt attribute must be <= 128.
RULES ABOUT LLCBs:
The LLCBs are used by both packet (for SAPI 16) and signaling (for SAPI 0). Since engineering rules only allow 384 of the LLCBs to be used, the sum of the packet users (dpkt_cnt) and the circuit users (usr_cnt) must be less than 384.

**Attribute:**
usr_cnt
**Fullname:**
This attribute is the count of the number of ISDN signaling users assigned on the DSL group.
**Attribute Description:**
Whenever a RLdslequip tuple is inserted on the channel group, the usr_cnt attribute should be INCREMENTED according to the number of Layer 2 Control Blocks(LLCBs) used by the channel.

Conversely, whenever a RLdslequip tuple is deleted from the channel group, the usr_cnt attribute should be DECREMENTED according to the number of Layer 2 Control Blocks used by the channel.

NOTE: When updating a RLdslequip tuple for a port with a service class of FC_ISDN and Layer 2 profile of PSXISDN, the following rules apply to adding and deleting users. These rules only apply for updating RLdslequip, the rules for inserting and deleting are previously described.

| | |
|---|---|
| Adding the first user: | The usr_cnt attribute should not be incremented, because it was already increment when the RLdslequip tuple was inserted with no users. |
| Adding another user: | The usr_cnt attribute should be incremented by 1 for every user added after the first. |
| Deleting the last user: | The usr_cnt attribute should not be decremented, because it can only be decremented (for the last user) when the RLdslequip tuple is deleted. |
| Deleting a user(not last): | The usr_cnt attribute should be decremented by 1 for every user deleted that is not the last user. |

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| SERVICE CLASS | L2 PROFILE | Number of Layer 2 Control Blocks used |
|---|---|---|
| FC_ISDN | PSISDN | 1 |
| | PSXISDN | 1 (If # of equip parties = 0) |
| | | 1-8 (Number of equipped parties) |
| | PSDX | 1-8 (Number of equipped parties) |
| | PSBXV | 0 |
| | OTHER | 0 |
| FC_ISATND | ANY | 1 |
| FCEDSL | ANY | 1 |
| FCEDSLHM | ANY | 1 |
| PS_APDSL | ANY | 1 |
| FC_ISATND | ANY | 1 |
| OA_DAOPER | ANY | 1 |
| OA_TAOPER | ANY | 1 |
| FC_DASC | ANY | 1 |
| AS_OAP | ANY | 1 |
| HM_RAS | ANY | 1 |
| FC_HOBIS | ANY | 1 |
| FC_HOTVT | ANY | 1 |
| FC_HOTRT | ANY | 1 |
| OA_AQDSL | ANY | 1 |
| TM_XDB | ANY | 1 (D channel only) |
| AS_TCPIP | ANY | 1 |
| OA_MIS_LNK | ANY | 1 |
| FC_EIS_LNK | ANY | 1 |
| OA_IFOPER | ANY | 1 |
| OA_IFTERM | ANY | 1 |
| FC_RTRS | ANY | 1 |
| PS_EOC | ANY | 3 |
| PS_TMC | ANY | 2 |
| FCPKT_ISM | ANY | 0 |
| FCPKT_TRK | ANY | 0 |
| FCX75P_TK | ANY | 0 |
| FCX75_TK | ANY | 0 |
| FCX25_T1 | ANY | 0 |
| otherwise | ANY | 1 |

The usr_cnt attribute is only allowed to be non-zero if the dsltype attribute is PS_DSLG.

If the assigned attribute is DBNO or the dsltype attribute is not PS_DSLG, then the usr_cnt attribute must be 0.

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Every circuit users uses an LLCB (Logical Link Control Block) to store Layer 2 dynamic data in the PH.

RULES ABOUT LLCBs:
The LLCBs are used by both packet (for SAPI 16) and signaling (for SAPI 0). Since engineering rules only allow 384 of the LLCBs to be used, the sum of the packet users (dpkt_cnt) and the circuit users (usr_cnt) must be less than 384.

**Attribute:**
ts_cnt
**Fullname:**
Indicates the number of PDB time slots being used by BRI, XAT, EOC/TMC, and PRI applications for this DSL group
**Attribute Description:**
A count of the number of PDB time slots used by BRI and PRI applications on this logical PH

The default for this attribute is 0. This attribute is only allowed to be populated with a non-default value if the 'dsltype' = PS_DSLG. If 'assigned' = DBNO, this attribute must be 0.

**Attribute:**
x75_cnt
**Fullname:**
indicates the number of channels on this logical PH which are assigned to X.75 trunk application
**Attribute Description:**
This attribute specifies the number of X.75 trunk ports assigned to this dsl_group (logical PH). Increment/decrement when a port is added/deleted to/from this dsl_group in RLdslequip and the RLfc_porttyp.servclass for this port is PSX75_TK. Must be 0 when assigned is DBNO.

The corresponding RLtscount.x75_pidb[] array element must be incremented/decremented for every increment/decrement of x75_cnt and the RLtscount.x75_tsiu attribute must be incremented/decremented twice for every increment/decrement of x75_cnt.

This attribute is not used by X.25 access on a T1 (XAT) port.

This attribute is not used by EOC/TMC data link applications.

If this attribute is > 0 then the following attributes must be equal to zero:

dpkt_cnt, usr_cnt, mlhg_cnt, ts_cnt,

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dslg_cnt, trk_cnt, ism_cnt, x75p_cnt
If the PH assigned to an X.75 trunk member is of type PH2 then x75_cnt must be 1.

If the PH assigned to an X.75 trunk member is of type PH3 or PH4 then x75_cnt may be 1-6 as long as all members on a given PH3 or PH4 are of the same trunk group type (RLdslequip.l2prof = PSX75_T) and all member ports are equipped on the same SM.

If the PH assigned to an X.75 trunk member is attempted to be converted from a PH3 or PH4 to a PH2, the conversion will fail unless only one member is assigned on the PH3 or PH4 and is also assigned to channel 0 of them.

**Attribute:**
qphindx
**Fullname:**
QPH Index Number
**Attribute Description:**
QPH index number associated with this dsl_group.

**Attribute:**
cdma_cnt
**Fullname:**
indicates the number of defined members in a Packet Pipe (PP) or a Speech Handler (SH) channel group.
**Attribute Description:**
This attribute will be used to count the number of members in a SH or a PP channel group.

**Defines:**
"db/DMcircuit.h"

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# DSLXN

## 1. Description

Relation containing information about "data link" ISDN digital subscriber lines (DSL)s. The switch personnel are informed of data link DSL status through MCC displays and alarmed output messages. These features are available only for data link DSLs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 30 |
| expected tuples in relation | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
DSLXN       relid = 844   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     dport       DMPORT       (ushort)  <--- key
     xnamrl      DMXNAMRL     (ushort: 13)
     xnamid      DMXNAMID     (ushort: 11)
     servclass   DMSERVCLASS  (enum)
         User, Compacted and Stored Tuple Layout  DSLXN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                           |     |
  0 |             dport             |          xnamrl           |*****|
    |---------------+---------------+---------------+---------------|
    |                       |       |               |               |
  4 |        xnamid         |*******|   servclass   |***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLdslxn

**Relation Description** "Data link" ISDN Digital Subscriber Link.

Relation contains information about 'data link' ISDN digital subscriber lines (DSL's). Craft is informed of data link DSL status through MCC displays and alarmed output messages. These features are available only for data link DSL's.

Each tuple in this relation represents a 'data link' ISDN DSL. Craft are alerted to problems involving data link DSLs by means of MCC display pages and alarmed tty output messages.

In Generic 5E4, data link DSLs requiring internal to external name conversion are DSLs to Application Processors (APs). The ISDN BRCS Application Processor (AP) Communication package uses this relation to define the relative DSL data link number for each AP on a specific SM.

The maximum number of data links per AP is sixteen (16) when the AP is on a SM. The maximum number of data links per AP is thirty (30) when the AP is on a SM-2000.

The xnamid will be APn (such as, AP5) while the xnamrl is the relative link (such as, AP5-3 is AP5 relative link 3).

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This relation is to be SM Partitioned. Each SM will have only the RLDSLXN tuples for data the link DSLs that it terminates.

The number of tuples in this relation will be from 1 to 16 in SMs and 1 to 30 in SM-2000s. The actual number depends upon the number of data links to an AP.

An inverse relation for RLDSLXN, named RLXNDSL, also exists.

**Attribute: dport**

**Fullname:** D-channel port name of the data link DSL as defined in RLequipdsl and RLdslequip.

**Attribute Description** A tuple must also exist in RLfc_porttyp with a value of dport and servclass of PS_APDSL.

The maximum number of tuples with servclass PS_APDSL is 16 per SM.
The maximum number of tuples with servclass PS_APDSL is 30 per SM-2000.

**Attribute: servclass**

**Fullname:** Service class of the data link DSL.

**Attribute Description** AP DSL data links will have a servclass of PS_APDSL.

An SM can have from 0 to 16 RLdslxn tuples with servclass PS_APDSL.

Dependencies (taken, as is, from RLdslxn.P)--RLfc_porttyp: Each port in RLdslxn must also be present in RLfc_porttyp of the SM hosting terminating the data link DSL. The DSL port must be a D-channel port with servclass set to PS_APDSL.

**Attribute: xnamid**

**Fullname:** ID portion of the data linkd DSL external name.

**Attribute Description** Data link DSL's are assigned external names in lieu of directory numbers. The external name consists of two parts - an AP number (xnamid) and a relative link (xnamrl) number. AP's hosted by ISDN SM's will have xnamid values between 4 and 99.

For every tuple with servclass PS_APDSL, a corresponding tuple must exist in RLcmapdata, where RLcmapdata.apindex equals xnamid.

**Attribute: xnamrl**

**Fullname:** Relative Link portion of the data link DSL.

**Attribute Description** For an AP with data links (servclass = PS_APDSL), xnamrl can have values between 1 and 16 for SMs and between 1 and 30 for SM-2000s.

The xnamrl attribute corresponds to a bit position in RLcmapdata.link_map. Thus, if RLcmapdata.apindex = xnamid = 5 and RLcmapdata.link_map has bits 2 and 4 set, this relation will have two tuples: one for AP5-2 and one for AP5-4 (that is, xnamid=5, xnamrl=2 and xnamid=5, xnamrl=4).

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# DSP_MSG

## 1. Description

ISDN Display messages.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4096 |
| expected number of tuples | 212 |
| density | 84 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
DSP_MSG     relid = 1520  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
 (a) dsp_type    DMDSPTYPE    (enum: 4) <--- key
     dsp_id      DMUNS8       (ushort: 8)       <--- key
     msg_size    DMUCHAR      (uchar)
     dsp1        DMCHR        (char)
     dsp2        DMCHR        (char)
     dsp3        DMCHR        (char)
     dsp4        DMCHR        (char)
     dsp5        DMCHR        (char)
     dsp6        DMCHR        (char)
     dsp7        DMCHR        (char)
     dsp8        DMCHR        (char)
     dsp9        DMCHR        (char)
     dsp10       DMCHR        (char)
     dsp11       DMCHR        (char)
     dsp12       DMCHR        (char)
     dsp13       DMCHR        (char)
     dsp14       DMCHR        (char)
     dsp15       DMCHR        (char)
     dsp16       DMCHR        (char)
     dsp17       DMCHR        (char)
     dsp18       DMCHR        (char)
     dsp19       DMCHR        (char)
     dsp20       DMCHR        (char)
     dsp21       DMCHR        (char)
     dsp22       DMCHR        (char)
     dsp23       DMCHR        (char)
     dsp24       DMCHR        (char)
     dsp25       DMCHR        (char)
     dsp26       DMCHR        (char)
     dsp27       DMCHR        (char)
     dsp28       DMCHR        (char)
     dsp29       DMCHR        (char)
     dsp30       DMCHR        (char)
     dsp31       DMCHR        (char)
     dsp32       DMCHR        (char)
     dsp33       DMCHR        (char)
```

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```
     dsp34       DMCHR        (char)
     dsp35       DMCHR        (char)
     dsp36       DMCHR        (char)
     dsp37       DMCHR        (char)
     dsp38       DMCHR        (char)
     dsp39       DMCHR        (char)
     dsp40       DMCHR        (char)
         User, Compacted and Stored Tuple Layout    DSP_MSG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |       |               |       |               |               |
  0 |   a   |     dsp_id    |*******|    msg_size   |      dsp1     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |      dsp2     |      dsp3     |      dsp4     |      dsp5     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  8 |      dsp6     |      dsp7     |      dsp8     |      dsp9     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 12 |     dsp10     |     dsp11     |     dsp12     |     dsp13     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 16 |     dsp14     |     dsp15     |     dsp16     |     dsp17     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 20 |     dsp18     |     dsp19     |     dsp20     |     dsp21     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 24 |     dsp22     |     dsp23     |     dsp24     |     dsp25     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 28 |     dsp26     |     dsp27     |     dsp28     |     dsp29     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 32 |     dsp30     |     dsp31     |     dsp32     |     dsp33     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 36 |     dsp34     |     dsp35     |     dsp36     |     dsp37     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 40 |     dsp38     |     dsp39     |     dsp40     |***************|
    |---------------+---------------+---------------+---------------|
      ( 44 bytes )
RLdsp_msg.G
domain alDSP_MS   struct  (4 sub-attributes)
 (a)     dsp_type    .2.fake      (enum: 4)
         dsp_id      .3.fake      (ushort)
         msg_size    unsigned char (uchar)
         dsp         .4.fake      (array [ 40 ] of char )
         Structure Layout      alDSP_MS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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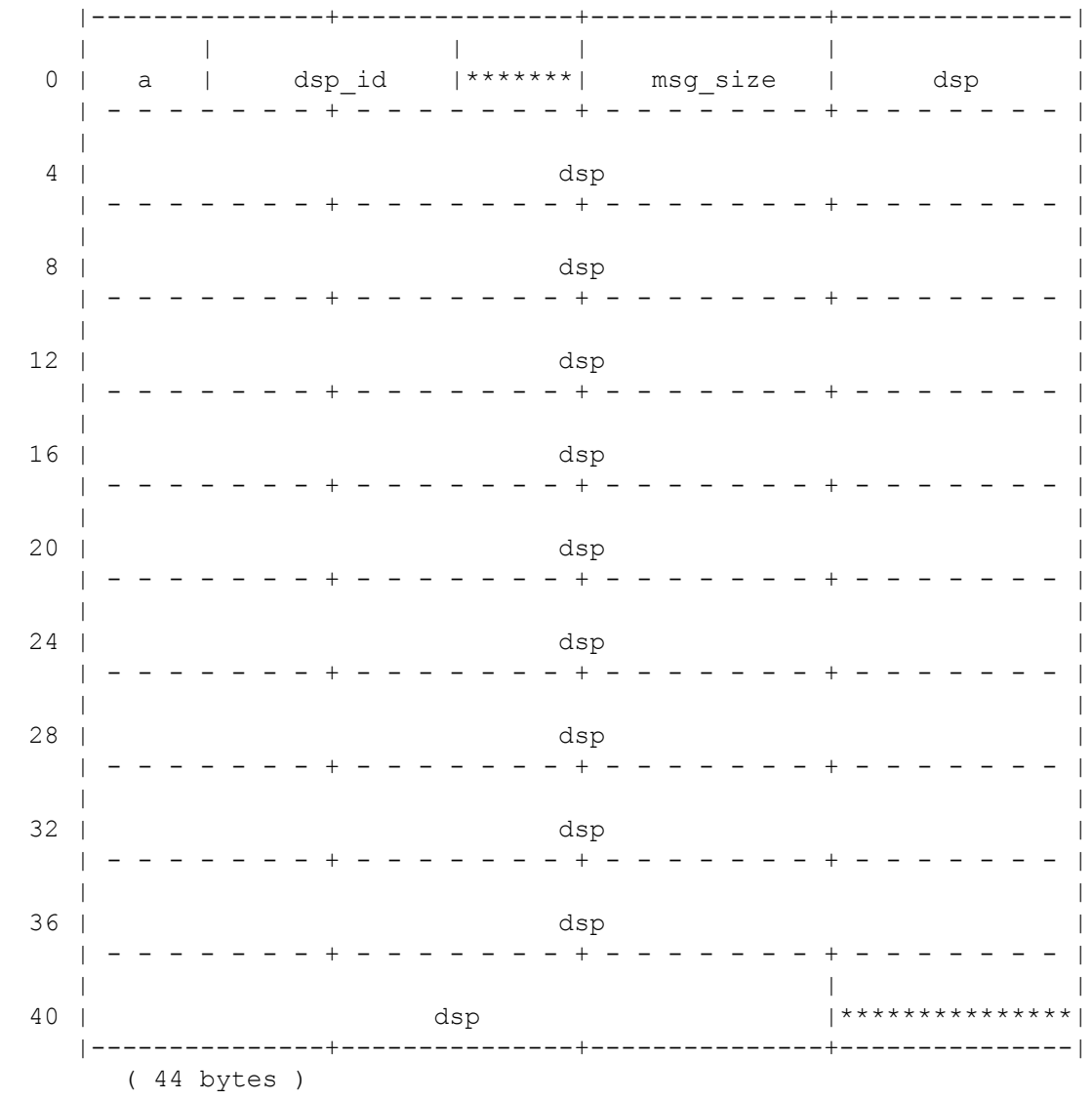


## 4. Population Rules for RLdsp_msg

**Relation Description** Display Messages.

This relation is used to store display messages for ISDN terminals with display capability. Currently display messages for SLE, AC, INSP, and COT are stored in this relation.

ISDN display messages are stored in this relation. Each message is stored as ASCII characters in the dsp[] array. When a DN or an EXTENSION needs to be inserted as a part of message, insert '~' (tilde) in the proper place and continue to fill the rest of message. (Note: Blanks are valid characters.) The '~' will serve as a place holder for a DN or an extension and will be replaced with the actual digits at run-time. Since the '~' occupies one character slot, it will be counted as one valid character.

```
msg_size = number of characters including
           white spaces  + number of '~'
           which is a place holder for a DN or extension.
```

Because of the DN expansion, the actual size of message can be greater than msg_size in a tuple.

The actual size of a message should be less than or equal to

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```
( number of characters )
        +  n * ( number of '~' )
where n is 1, 9, 11, or 17 depending on the dsp_type and dsp_id.
```
However, when a message is constructed, the msg_size should be equal to

(Expanded message to be displayed on the terminal)

- (n * (number of '~' in the message))

A null ( \0 ) is served as a string terminator if the number of characters in the string is less than 40. If the string is full, the delimiter (null: \0) will be skipped.

For SLE display messages, the dsp_id key is the same as the key used for the announcements that SLE uses during an SLE session. There is a one-to-one correspondence between the display messages and the announcements for SLE only.

**Attribute: dsp_type**

**Fullname:** Display Type

**Attribute Description** This field is used to define the type of an ISDN display message.

**Attribute: dsp_id**

**Fullname:** Display ID

**Attribute Description** This field is used to uniquely define an ISDN display message within a Display Type.

**Attribute: msg_size**

**Fullname:** message size

**Attribute Description** This field indicates the number of characters the display message has. Zero means the string is empty and 40 means the string is full.

**Attribute: dsp[*]**

**Fullname:** display characters 1 through 40

**Attribute Description** These fields are used to store the 40 character display message. The unoccupied character slots must be filled up with null characters.

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# DSTID_RR

## 1. Description

OSPS reroute mapping relation from a Destination ID to the internal destination ID.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | LPFR |
| application | ACDQ |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
DSTID_RR    relid = 1151  DBSTATIC   DBACC_LIN   DBPRAM    LPFR    ACDQ
     dest_id     DMOSPSID     (ushort: 14)
     num_on      DMUNS8       (ushort: 8)
 (a) int_destid  DMUNS5       (ushort: 5)     <--- key
     dest_name   DMCTXT4      (array [ 4 ] of char )
         User, Compacted and Stored Tuple Layout   DSTID_RR
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                             |   |               |         |     |
  0 |          dest_id            |***|     num_on    |    a    |*****|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           dest_name                           |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLdstid_rr

**Relation Description** Destination ID Number for Re-routing
Relation for mapping a four digit Destination ID number to an internal destination ID number from 1 to 16. This internal destination ID is the destination that a particular serving team's traffic will be routed to.

**Attribute: int_destid**

**Fullname:** Internal Destination ID Number

**Attribute Description** Indicates the internal destination ID number of the switch that the call is being rerouted.

**Attribute: dest_id**

**Fullname:** Destination ID

**Attribute Description** Destination ID of the switch that calls will be rerouted.

**Attribute: dest_name**

**Fullname:** Destination Name Switch
**Attribute Description** Indicates unique name of the switch that calls are being routed.

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**Attribute: num_on**

**Fullname:** Number On

**Attribute Description** The number of serving teams that have been rerouted to a particular destination.

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# DTGSTRAN

## 1. Description

This relation associates a PFA dialed code with a particular private facility.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 496 |
| expected tuples in relation | 6 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
DTGSTRAN    relid = 957   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     dial_code   DMDC5        (struct)  <--- key
         dcnt5       DMUNS3       (ushort: 3)
         digits      DMDIG5       (array [ 5 ] of char )
     grpnum      DMGRUPNM     (ushort: 13)
     config      DMCONFIG     (ulong: 12)        <--- key
     tgidx       DMUNS4       (ushort: 4)
 (a) pftype      DMPFTYPE     (enum: 1)
         User, Compacted and Stored Tuple Layout   DTGSTRAN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+========== dial_code ==========+===============|
    |     |         |                                               |
  0 |dcnt5|*********|                    digits                     |
    | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
    |                               |                               |
  4 |             digits            |*******************************|
    |===============+===============+===============+===============|
    |                           |                       |       | |   |
  8 |          grpnum           |         config        | tgidx |a|***|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLdtgstran

**Relation Description** Direct Trunk Group Selection (DTGS) translation.
Associates a PFA dialed code with a particular private facility.

**Attribute: config**

**Fullname:** configuration group.

**Attribute Description** ISDN configuration group. This number must be created and put in RLfacname.facid and RLfid2name.facid before being assigned to RLis_term.config. Unassigned configurations exist only in the AM.

**Attribute: dial_code**

**Fullname:** PFA dialed code.

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**Attribute Description** Access code digits which represents a private facility. This dialed code may or may not be associated with a button. If it is associated with a button then the following must also exits. The RLbnfeat.str_param, which has the same config as this relation (RLdtgstran) and RLbnfeat.action = ACN_IDTGS, are the BCD digit version of this dial_code. The dial_code.dcnt5 can not be greater than four because only four digits can stored in RLbnfeat.str_param.
Range: An array 5 of extended digits

**Attribute: dial_code.dcnt5**

**Fullname:** Digit count.

**Attribute Description** digit count.

A length of 5 is not valid when the dial code is associated with a feature button. But if the dial code is not associated with a feature button, a length of 5 is valid.

**Attribute: dial_code.digits**

**Fullname:** digits.

**Attribute Description** digits.

**Attribute: pftype**

**Fullname:** private facility type.

**Attribute Description** Indicates if this facility is a simulated facility group (PFSFG) or a physical trunk group (PFPHYS).

**Attribute: grpnum**

**Fullname:** Group Number.

**Attribute Description** Indicates group number of the sfg or physical trunk group represented by this dialed code

```
   If pftype = PFSFG
           Verify existence of type in RLrt_sfg such that
           key rlRT_SFG.grpnum = rlDTGSTRAN.grpnum
   If pftype = PFPHYS
           Verify existence of type in RLrt_trkg such
           that key rlRT_TRKG.grpnum = rlDTGSTRAN.grpnum
If this tuple exists, then an RLtgtoatt tuple
   must also exists, whose keys are:
   rlTGTOATT.pftype = rlDTGSTRAN.pftype
   rlTGTOATT.grpnum = rlDTGSTRAN.grpnum,
   and the
   rlTGTOATT.isat_idx = rlISATGRP.isat_idx
   and one of the
   rlISATGRP.config[1-4] = rlDTGSTRAN.config.
```

**Attribute: tgidx**

**Fullname:** DTGS button index.

**Attribute Description** DTGS button index. If this dialed code is behind a button for this configuration then this attribute must be populated. This index is assigned in RLisatlmt in attribute tgbitmap. See RLisatlmt.P for information on how the index is generated.

The bit which corresponds to this index number in rlISATLMT.tgbitmap must be set to '1'.

```
        Verify the existence of a tuple in
```

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```
RListgidx such that
rlISTGIDX.config = rlDTGSTRAN.config
rlISTGIDX.tgidx  = rlDTGSTRAN.tgidx
```

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# DYNACL

## 1. Description

Dynamic cluster tracking relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
DYNACL      relid = 603   DBSTATIC   DBACC_LIN   DBPRAM    LP      RCMAP
     oldid       DMFACID      (ushort)  <--- key
     newid       DMFACID      (ushort)
     chgcnt      DMFACUSCNT   (ulong)
         User, Compacted and Stored Tuple Layout DYNACL
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             oldid             |             newid             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |                           chgcnt                              |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLdynacl

**Relation Description** Dynamic cluster update/delete identifiers.

This relation is populated only by recent change (RC) activities that update or delete the definition of BRCS feature clusters that are assigned to one or more logical terminals. This relation is normally empty, may contain at most one tuple, and is not initially populated by ODA. When populated, the tuple contains the cluster identifier(s) involved in the RC activity.

This relation, and sometimes the use of the reserved facname, DYNACLST, limit the cluster definition mapping function to a single dynamic update or delete at one time.

**Attribute: oldid**

**Fullname:** updated/deleted cluster name identifier

**Attribute Description** Contains the internal identifier corresponding to the name of the cluster which is being updated or deleted.

**Attribute: newid**

**Fullname:** identifier for cluster named DYNACLST (updates only)

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**Attribute Description** For dynamic update operations, contains the internal identifier corresponding to the cluster named DYNACLST. For dynamic delete operations, contains 0.

**Attribute: chgcnt**

**Fullname:** not used

**Attribute Description** This attribute is not currently used.

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## 2.6 RELATIONS: E

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# E911_CNT

## 1. Description

Enhanced 911 count.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| expected number of tuples | 1 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | FCtr_e911db |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
E911_CNT    relid = 1527  DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL
     psap_cnt    DMUSHORT     (ushort)
     ipsap_cnt   DMUSHORT     (ushort)
     dedtrk_cnt  DMUSHORT     (ushort)
     spr_chr1    DMUCHAR      (uchar)
     spr_chr2    DMUCHAR      (uchar)
     sm          DMMODULE     (ushort: 8)     <--- key
         User, Compacted and Stored Tuple Layout   E911_CNT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |            psap_cnt             |           ipsap_cnt           |
    |---------------+---------------+---------------+---------------|
    |                                 |               |               |
  4 |           dedtrk_cnt            |    spr_chr1   |    spr_chr2   |
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  8 |       sm      |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLe911_cnt

**Relation Description**

Enhanced 911 Counts.

This relation keeps track of the counts related to enhanced 911. The counts are used to update the number of tuples in the dynamic E911 relation RLe911db via a trigger function on a per SM basis. The counts are partly based on this relation and on RLe911_sfg.

This static relation is used for Enhanced 911 calls.

end relation;

**Attribute: sm**

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**Fullname:** Switching Module

**Attribute Description** Indicates which SM this tuple is located.

**Attribute: psap_cnt**

**Fullname:** Public Safety Answering Point Count

**Attribute Description** Indicates the number of PSAP trunk group members on the given SM.

**Attribute: ipsap_cnt**

**Fullname:** ISDN Public Safety Answering Point Count

**Attribute Description** Indicates the number of ISDN PSAPs on an SM.

**Attribute: dedtrk_cnt**

**Fullname:** Dedicated Trunk Count

**Attribute Description** Indicates the number of E911 incoming dedicated trunk group members on an SM.

**Attribute: spr_chr1**

**Fullname:** Spare char 1

**Attribute Description** Spare char to be used at a later time.

**Attribute: spr_chr2**

**Fullname:** Spare char 2

**Attribute Description** Spare char to be used at a later time.

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# E911_SFG

## 1. Description

Enhanced 911 simulated facilities group (E911_SFG).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | LPFR |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| trigger function | FCtr_e911db |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
E911_SFG    relid = 1528  DBSTATIC   DBACC_LIN   DBPRAM    LPFR    RCMAP
     sfg_grp     DMGRUPNM     (ushort: 11)
     sfg_type    DMSFGTYPE    (enum: 5)     <--- key
     sfg_size    DMUNS9       (ushort: 9)
     spr_chr1    DMUCHAR      (uchar)
     spr_chr2    DMUCHAR      (uchar)
         User, Compacted and Stored Tuple Layout   E911_SFG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |         |                   |             |
  0 |       sfg_grp         | sfg_type|     sfg_size     |*************|
    |---------------+---------------+---------------+---------------|
    |                |               |                               |
  4 |    spr_chr1    |    spr_chr2   |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLe911_sfg

**Relation Description** Enhanced 911 Simulated Facilities Group
This relation keeps the SFG related information related to the Enhanced 911 feature. It is used to determine how many RLe911db dynamic tuples should be populated on an SM via a trigger function. This is based off the SFG size in this relation and the counts in relation RLe911_cnt.

This static relation is used while routing Enhanced 911 calls.

**Attribute: sfg_type**

**Fullname:** SFG Type

**Attribute Description** This is the E911 SFG type for line and trunk originated calls.

**Attribute: sfg_size**

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**Fullname:** SFG Size

**Attribute Description** Indicates the maximum number of simultaneous E911 line or trunk calls.

**Attribute: sfg_grp**

**Fullname:** SFG Group Number

**Attribute Description** Indicates E911 SFG group number.

**Attribute: spr_chr1**

**Fullname:** Spare char 1

**Attribute Description** This is a spare char to be used at a later time.

**Attribute: spr_chr2**

**Fullname:** Spare char 2

**Attribute Description** This is a spare char to be used at a later time.

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# E911PSAP

## 1. Description

E911 public safety answering point.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 80 |
| expected tuples in relation | 11 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
E911PSAP    relid = 1526  DBSTATIC   DBACC_HASH  DBPRAM    LPFR    RCMAP
     tgn         DMGRUPNM     (ushort: 13)     <--- key
 (a) rerte_ind   DMBOOL       (enum: 1)
 (b) spr_bit1    DMBOOL       (enum: 1)
 (c) spr_bit2    DMBOOL       (enum: 1)
     spr_char    DMUNS6       (ushort: 6)
     wink_strt   DMUNS5       (ushort: 5)
 (d) abnd_timer  DMUNS5       (ushort: 5)
     rerte_dn    DMBCD_DN     (struct)
         dn0         DMUNS4       (ushort: 4)
         dn1         DMUNS4       (ushort: 4)
         dn2         DMUNS4       (ushort: 4)
         dn3         DMUNS4       (ushort: 4)
         dn4         DMUNS4       (ushort: 4)
         dn5         DMUNS4       (ushort: 4)
         dn6         DMUNS4       (ushort: 4)
         dn7         DMUNS4       (ushort: 4)
         dn8         DMUNS4       (ushort: 4)
         dn9         DMUNS4       (ushort: 4)
         dn10        DMUNS4       (ushort: 4)
         dn11        DMUNS4       (ushort: 4)
         dn12        DMUNS4       (ushort: 4)
         dn13        DMUNS4       (ushort: 4)
         dn14        DMUNS4       (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
         User, Compacted and Stored Tuple Layout   E911PSAP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           | | | |           |         |         |
  0 |           tgn             |a|b|c|  spr_char |wink_strt|    d    |
    |===============+==========  rerte_dn ==========+===============|
    |       |       |       |       |       |       |       |       |
  4 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
  8 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
```

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```
|===============+===============+===============+==============|
   ( 12 bytes )
```

## 4. Population Rules for RLe911psap

**Relation Description** Enhanced 911 Public Saftey Answering Point(PSAP)
This relation will be used to get reroute-dn if the specified public safety answering point (PSAP) trunk group is busy when a termination is attempted. It is also used to keep information specific to E911 PSAPs.

This is static relation used for Enhanced 911 call.

**Attribute: tgn** **Fullname:** Trunk Group Number

**Attribute Description** This is the trunk group number of the PSAP trunk group.

**Attribute: rerte_ind**
**Fullname:** Reroute Indicator

**Attribute Description** This attribute is used to indicate if reroute is allowed for busy PSAP. The valid values are DBYES, DBNO. If this attribute is DBYES, a reroute DN must be populated. The reroute DN will be used to reroute calls that have terminated to a busy PSAP.

**Attribute: rerte_dn**
**Fullname:** Reroute DN

**Attribute Description** This is a 7 or 10 digit DN that will be used to reroute calls that have terminated to a busy PSAP. This DN must be populated if rerte_ind is DBYES. This DN will be used before the next alternate PSAP DN specified in the ESN routing data is tried.

**Attribute: rerte_dn.dn0**
**Fullname:** Digit number 0

**Attribute Description** This is the 1st digit of the reroute DN

**Attribute: rerte_dn.dn1**
**Fullname:** Digit number 1

**Attribute Description** This is the 2nd digit of the reroute DN

**Attribute: rerte_dn.dn2**
**Fullname:** digit number 2

**Attribute Description** This is the 3rd digit of the reroute DN

**Attribute: rerte_dn.dn3**
**Fullname:** digit number 3

**Attribute Description** This is the 4th digit of the reroute DN

**Attribute: rerte_dn.dn4**
**Fullname:** digit number 4

**Attribute Description** This is the 5th digit of the reroute DN

**Attribute: rerte_dn.dn5**
**Fullname:** Digit number 5

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**Attribute Description** This is the 6th digit of the reroute DN

**Attribute: rerte_dn.dn6**
**Fullname:** Digit number 6

**Attribute Description** This is the 7th digit of the reroute DN

**Attribute: rerte_dn.dn7**
**Fullname:** Digit number 7

**Attribute Description** This is the 8th digit of the reroute DN

**Attribute: rerte_dn.dn8**
**Fullname:** Digit number 8

**Attribute Description** This is the 9th digit of the reroute DN

**Attribute: rerte_dn.dn9**
**Fullname:** Digit number 9

**Attribute Description** This is the 10th digit of the reroute DN

**Attribute: rerte_dn.dn10**
**Fullname:** Digit number 10

**Attribute Description** This is the 11th digit of the digit structure

**Attribute: rerte_dn.dn11**
**Fullname:** Digit number 11

**Attribute Description** This is the 12th digit of the digit structure

**Attribute: rerte_dn.dn12**
**Fullname:** Digit number 12

**Attribute Description** This is the 13th digit of the digit structure

**Attribute: rerte_dn.dn13**
**Fullname:** Digit number 13

**Attribute Description** This is the 14th digit of the digit structure

**Attribute: rerte_dn.dn14**
**Fullname:** Digit number 14

**Attribute Description** This is the 15th digit of the digit structure

**Attribute: rerte_dn.digcnt**
**Fullname:** Digit number count

**Attribute Description** This is the count of the number of digits in the reroute DN

**Attribute: wink_strt**
**Fullname:** Wink start

**Attribute Description** This is used to wait for start signal timer.

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**Attribute: abnd_timer**

**Fullname:** Abandon Timer

**Attribute Description** This is the timer that specifies how long to keep the PSAP ringing when the caller abandons the call. The value is entered as seconds.

**Attribute: spr_bit1**

**Fullname:** Spare bit 1

**Attribute Description** This is a spare bit to be used at a later time.

**Attribute: spr_bit2**

**Fullname:** Spare bit 2

**Attribute Description** This is a spare bit to be used at a later time.

**Attribute: spr_char**

**Fullname:** Spare character

**Attribute Description** This is a spare character to be used at a later time.

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# E911SA

## 1. Description

Enhanced 911 Stand Alone

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 50 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| application | NULL |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 1024 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
E911SA      relid = 1524  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     sm          DMMODULE     (ushort: 8)     <--- key
     das         DMDA_TREE    (ushort: 7)     <--- key
 (a) spr_bit1    DMBOOL       (enum: 1)
 (b) spr_bit2    DMBOOL       (enum: 1)
 (c) spr_bit3    DMBOOL       (enum: 1)
 (d) spr_bit4    DMBOOL       (enum: 1)
 (e) spr_bit5    DMBOOL       (enum: 1)
 (f) spr_bit6    DMBOOL       (enum: 1)
     spr_char    DMUCHAR      (uchar)
     pri_psap    DMBCD_DN     (struct)
         dn0         DMUNS4       (ushort: 4)
         dn1         DMUNS4       (ushort: 4)
         dn2         DMUNS4       (ushort: 4)
         dn3         DMUNS4       (ushort: 4)
         dn4         DMUNS4       (ushort: 4)
         dn5         DMUNS4       (ushort: 4)
         dn6         DMUNS4       (ushort: 4)
         dn7         DMUNS4       (ushort: 4)
         dn8         DMUNS4       (ushort: 4)
         dn9         DMUNS4       (ushort: 4)
         dn10        DMUNS4       (ushort: 4)
         dn11        DMUNS4       (ushort: 4)
         dn12        DMUNS4       (ushort: 4)
         dn13        DMUNS4       (ushort: 4)
         dn14        DMUNS4       (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
     alt1_psap   DMBCD_DN     (struct)
         dn0         DMUNS4       (ushort: 4)
         dn1         DMUNS4       (ushort: 4)
         dn2         DMUNS4       (ushort: 4)
         dn3         DMUNS4       (ushort: 4)
         dn4         DMUNS4       (ushort: 4)
         dn5         DMUNS4       (ushort: 4)
         dn6         DMUNS4       (ushort: 4)
```

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```
    dn7         DMUNS4       (ushort: 4)
    dn8         DMUNS4       (ushort: 4)
    dn9         DMUNS4       (ushort: 4)
    dn10        DMUNS4       (ushort: 4)
    dn11        DMUNS4       (ushort: 4)
    dn12        DMUNS4       (ushort: 4)
    dn13        DMUNS4       (ushort: 4)
    dn14        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
alt2_psap   DMBCD_DN     (struct)
    dn0         DMUNS4       (ushort: 4)
    dn1         DMUNS4       (ushort: 4)
    dn2         DMUNS4       (ushort: 4)
    dn3         DMUNS4       (ushort: 4)
    dn4         DMUNS4       (ushort: 4)
    dn5         DMUNS4       (ushort: 4)
    dn6         DMUNS4       (ushort: 4)
    dn7         DMUNS4       (ushort: 4)
    dn8         DMUNS4       (ushort: 4)
    dn9         DMUNS4       (ushort: 4)
    dn10        DMUNS4       (ushort: 4)
    dn11        DMUNS4       (ushort: 4)
    dn12        DMUNS4       (ushort: 4)
    dn13        DMUNS4       (ushort: 4)
    dn14        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
selxfer1    DMBCD_DN     (struct)
    dn0         DMUNS4       (ushort: 4)
    dn1         DMUNS4       (ushort: 4)
    dn2         DMUNS4       (ushort: 4)
    dn3         DMUNS4       (ushort: 4)
    dn4         DMUNS4       (ushort: 4)
    dn5         DMUNS4       (ushort: 4)
    dn6         DMUNS4       (ushort: 4)
    dn7         DMUNS4       (ushort: 4)
    dn8         DMUNS4       (ushort: 4)
    dn9         DMUNS4       (ushort: 4)
    dn10        DMUNS4       (ushort: 4)
    dn11        DMUNS4       (ushort: 4)
    dn12        DMUNS4       (ushort: 4)
    dn13        DMUNS4       (ushort: 4)
    dn14        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
selxfer2    DMBCD_DN     (struct)
    dn0         DMUNS4       (ushort: 4)
    dn1         DMUNS4       (ushort: 4)
    dn2         DMUNS4       (ushort: 4)
    dn3         DMUNS4       (ushort: 4)
    dn4         DMUNS4       (ushort: 4)
    dn5         DMUNS4       (ushort: 4)
    dn6         DMUNS4       (ushort: 4)
    dn7         DMUNS4       (ushort: 4)
    dn8         DMUNS4       (ushort: 4)
    dn9         DMUNS4       (ushort: 4)
```

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```
    dn10        DMUNS4       (ushort: 4)
    dn11        DMUNS4       (ushort: 4)
    dn12        DMUNS4       (ushort: 4)
    dn13        DMUNS4       (ushort: 4)
    dn14        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
selxfer3    DMBCD_DN     (struct)
    dn0         DMUNS4       (ushort: 4)
    dn1         DMUNS4       (ushort: 4)
    dn2         DMUNS4       (ushort: 4)
    dn3         DMUNS4       (ushort: 4)
    dn4         DMUNS4       (ushort: 4)
    dn5         DMUNS4       (ushort: 4)
    dn6         DMUNS4       (ushort: 4)
    dn7         DMUNS4       (ushort: 4)
    dn8         DMUNS4       (ushort: 4)
    dn9         DMUNS4       (ushort: 4)
    dn10        DMUNS4       (ushort: 4)
    dn11        DMUNS4       (ushort: 4)
    dn12        DMUNS4       (ushort: 4)
    dn13        DMUNS4       (ushort: 4)
    dn14        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
selxfer4    DMBCD_DN     (struct)
    dn0         DMUNS4       (ushort: 4)
    dn1         DMUNS4       (ushort: 4)
    dn2         DMUNS4       (ushort: 4)
    dn3         DMUNS4       (ushort: 4)
    dn4         DMUNS4       (ushort: 4)
    dn5         DMUNS4       (ushort: 4)
    dn6         DMUNS4       (ushort: 4)
    dn7         DMUNS4       (ushort: 4)
    dn8         DMUNS4       (ushort: 4)
    dn9         DMUNS4       (ushort: 4)
    dn10        DMUNS4       (ushort: 4)
    dn11        DMUNS4       (ushort: 4)
    dn12        DMUNS4       (ushort: 4)
    dn13        DMUNS4       (ushort: 4)
    dn14        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
selxfer5    DMBCD_DN     (struct)
    dn0         DMUNS4       (ushort: 4)
    dn1         DMUNS4       (ushort: 4)
    dn2         DMUNS4       (ushort: 4)
    dn3         DMUNS4       (ushort: 4)
    dn4         DMUNS4       (ushort: 4)
    dn5         DMUNS4       (ushort: 4)
    dn6         DMUNS4       (ushort: 4)
    dn7         DMUNS4       (ushort: 4)
    dn8         DMUNS4       (ushort: 4)
    dn9         DMUNS4       (ushort: 4)
    dn10        DMUNS4       (ushort: 4)
    dn11        DMUNS4       (ushort: 4)
    dn12        DMUNS4       (ushort: 4)
```

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```
        dn13        DMUNS4       (ushort: 4)
        dn14        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
    selxfer6    DMBCD_DN     (struct)
        dn0         DMUNS4       (ushort: 4)
        dn1         DMUNS4       (ushort: 4)
        dn2         DMUNS4       (ushort: 4)
        dn3         DMUNS4       (ushort: 4)
        dn4         DMUNS4       (ushort: 4)
        dn5         DMUNS4       (ushort: 4)
        dn6         DMUNS4       (ushort: 4)
        dn7         DMUNS4       (ushort: 4)
        dn8         DMUNS4       (ushort: 4)
        dn9         DMUNS4       (ushort: 4)
        dn10        DMUNS4       (ushort: 4)
        dn11        DMUNS4       (ushort: 4)
        dn12        DMUNS4       (ushort: 4)
        dn13        DMUNS4       (ushort: 4)
        dn14        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        User, Compacted and Stored Tuple Layout E911SA
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |               | | | | | | |     |               |
 0 |       sm      |     das       |a|b|c|d|e|f|*****|    spr_char   |
   |===============+===========  pri_psap ==========+===============|
   |       |       |       |       |       |       |       |       |
 4 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 8 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+========== alt1_psap ==========+===============|
   |       |       |       |       |       |       |       |       |
12 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
16 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+========== alt2_psap ==========+===============|
   |       |       |       |       |       |       |       |       |
20 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
24 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+==========  selxfer1 ==========+===============|
   |       |       |       |       |       |       |       |       |
28 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
32 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+==========  selxfer2 ==========+===============|
   |       |       |       |       |       |       |       |       |
36 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
```

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```
    |       |       |       |       |       |       |       |       |
 40 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+==========  selxfer3 ==========+===============|
    |       |       |       |       |       |       |       |       |
 44 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
 48 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+==========  selxfer4 ==========+===============|
    |       |       |       |       |       |       |       |       |
 52 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
 56 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+==========  selxfer5 ==========+===============|
    |       |       |       |       |       |       |       |       |
 60 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
 64 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+==========  selxfer6 ==========+===============|
    |       |       |       |       |       |       |       |       |
 68 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
 72 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+===============+===============+===============|
      ( 76 bytes )
domain alE911SA   struct  (11 sub-attributes)
        sm          .18.fake     (ushort)
        das         .19.fake     (ushort: 7)
(a)     spr_bit1    .0fake       (enum)
(b)     spr_bit2    .0fake       (enum)
(c)     spr_bit3    .0fake       (enum)
(d)     spr_bit4    .0fake       (enum)
(e)     spr_bit5    .0fake       (enum)
(f)     spr_bit6    .0fake       (enum)
        spr_char    unsigned char (uchar)
        psap        .20.fake     (array [ 3 ] of .1fake )
            dn0         .0.fake      (ushort: 4)
            dn1         .1.fake      (ushort: 4)
            dn2         .2.fake      (ushort: 4)
            dn3         .3.fake      (ushort: 4)
            dn4         .4.fake      (ushort: 4)
            dn5         .5.fake      (ushort: 4)
            dn6         .6.fake      (ushort: 4)
            dn7         .7.fake      (ushort: 4)
            dn8         .8.fake      (ushort: 4)
            dn9         .9.fake      (ushort: 4)
            dn10        .10.fake     (ushort: 4)
            dn11        .11.fake     (ushort: 4)
            dn12        .12.fake     (ushort: 4)
            dn13        .13.fake     (ushort: 4)
            dn14        .14.fake     (ushort: 4)
```

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```
            digcnt      .15.fake     (uchar: 4)
        selxfer     .21.fake     (array [ 6 ] of .1fake )
            dn0         .0.fake      (ushort: 4)
            dn1         .1.fake      (ushort: 4)
            dn2         .2.fake      (ushort: 4)
            dn3         .3.fake      (ushort: 4)
            dn4         .4.fake      (ushort: 4)
            dn5         .5.fake      (ushort: 4)
            dn6         .6.fake      (ushort: 4)
            dn7         .7.fake      (ushort: 4)
            dn8         .8.fake      (ushort: 4)
            dn9         .9.fake      (ushort: 4)
            dn10        .10.fake     (ushort: 4)
            dn11        .11.fake     (ushort: 4)
            dn12        .12.fake     (ushort: 4)
            dn13        .13.fake     (ushort: 4)
            dn14        .14.fake     (ushort: 4)
            digcnt      .15.fake     (uchar: 4)
```

Structure Layout alE911SA

| | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 0 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| 0 | sm | | | | | | | das | | | | | | | a | b | c | d | e | f | ***** | spr_char | | | | | | | | |
| | psap[0] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | dn0 | | | | dn1 | | | | dn2 | | | | dn3 | | | | dn4 | | | | dn5 | | | | dn6 | | | | dn7 | | | |
| 8 | dn8 | | | | dn9 | | | | dn10 | | | | dn11 | | | | dn12 | | | | dn13 | | | | dn14 | | | | digcnt | | | |
| | psap[1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | dn0 | | | | dn1 | | | | dn2 | | | | dn3 | | | | dn4 | | | | dn5 | | | | dn6 | | | | dn7 | | | |
| 16 | dn8 | | | | dn9 | | | | dn10 | | | | dn11 | | | | dn12 | | | | dn13 | | | | dn14 | | | | digcnt | | | |
| | psap[2] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | dn0 | | | | dn1 | | | | dn2 | | | | dn3 | | | | dn4 | | | | dn5 | | | | dn6 | | | | dn7 | | | |
| 24 | dn8 | | | | dn9 | | | | dn10 | | | | dn11 | | | | dn12 | | | | dn13 | | | | dn14 | | | | digcnt | | | |
| | selxfer[0] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | dn0 | | | | dn1 | | | | dn2 | | | | dn3 | | | | dn4 | | | | dn5 | | | | dn6 | | | | dn7 | | | |
| 32 | dn8 | | | | dn9 | | | | dn10 | | | | dn11 | | | | dn12 | | | | dn13 | | | | dn14 | | | | digcnt | | | |
| | selxfer[1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | dn0 | | | | dn1 | | | | dn2 | | | | dn3 | | | | dn4 | | | | dn5 | | | | dn6 | | | | dn7 | | | |

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```
 40 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+========  selxfer[2] ========+===============|
    |       |       |       |       |       |       |       |       |
 44 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
 48 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+========  selxfer[3] ========+===============|
    |       |       |       |       |       |       |       |       |
 52 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
 56 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+========  selxfer[4] ========+===============|
    |       |       |       |       |       |       |       |       |
 60 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
 64 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+========  selxfer[5] ========+===============|
    |       |       |       |       |       |       |       |       |
 68 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
 72 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+===============+===============+===============|
       ( 76 bytes )
```

## 4. Population Rules for RLe911sa

**Relation Description** Enhanced 911 Stand Alone
This relation RLe911sa is an E911 stand alone/default relation. It is used in stand alone mode to route an E911 call, or when a query couldn't be sent, or received invalid data in a query response, or timed out waiting for a query response.

If the SM were in stand alone mode then this relation would be read (instead of reading RLesntran) to obtain the routing and selective call transfer telephone numbers.

If a message were sent to the GRSP/LRSP for the routing/selective information and no response was returned then this relation would also get read for that information. The routing numbers (pri_psap, alt1_psap, alt2_psap) are used in routing the call. If the first route failed then the other would be tried, etc. The selective transfer numbers are used by the PSAPs while doing selective call transfer.

This static relation is used in the routing of Enhanced 911 calls while in stand alone mode, or when a query couldn't be sent, or received invalid data in a query response, or timed out waiting for a query response.

**Attribute: sm**

**Fullname:** Switching Module

**Attribute Description** Indicated the SM number where this relation resides.

**Attribute: das**

**Fullname:** Digit Analysis Selector

**Attribute Description** Indicates the DAS to use to read this relation.

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***NOTE:*** This relation uses a DAS of 0 as a default tuple and that's why the value is full range (0 thru 99).

**Attribute: spr_bit1**
**Fullname:** Spare bit 1

**Attribute Description** This is a spare bit to be used at a later time.

**Attribute: spr_bit2**
**Fullname:** Spare bit 2

**Attribute Description** This is a spare bit to be used at a later time.

**Attribute: spr_bit3**
**Fullname:** Spare bit 3

**Attribute Description** This is a spare bit to be used at a later time.

**Attribute: spr_bit4**
**Fullname:** Spare bit 4

**Attribute Description** This is a spare bit to be used at a later time.

**Attribute: spr_bit5**
**Fullname:** Spare bit 5

**Attribute Description** This is a spare bit to be used at a later time.

**Attribute: spr_bit6**
**Fullname:** Spare bit 6

**Attribute Description** This is a spare bit to be used at a later time.

**Attribute: spr_char**
**Fullname:** Spare Char

**Attribute Description** This is a spare char to be used at a later time.

**Attribute: pri_psap**
**Fullname:** Primary Public Safety Answering Point Telephone Number

**Attribute Description** This Primary PSAP telephone number is first used to route the 911 call. It contains a psap telephone number and has a digit count specifying the total number of digits. The digits are stored in order with the first digit (leftmost) stored in digit 0 of the structure, and the second digit in digit 1 of the structure, etc. This field is mandatory and must be populated. It can only contain a 7 or 10 digit DN.

**Attribute: pri_psap.dn0**
**Fullname:** Digit Number 0

**Attribute Description** This is the 1st digit of the primary PSAP telephone number.

**Attribute: pri_psap.dn1**
**Fullname:** Digit Number 1

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**Attribute Description** This is the 2nd digit of the primary PSAP telephone number.

**Attribute: pri_psap.dn2**
**Fullname:** Digit Number 2

**Attribute Description** This is the 3rd digit of the primary PSAP telephone number.

**Attribute: pri_psap.dn3**
**Fullname:** Digit Number 3

**Attribute Description** This is the 4th digit of the primary PSAP telephone number.

**Attribute: pri_psap.dn4**
**Fullname:** Digit Number 4

**Attribute Description** This is the 5th digit of the primary PSAP telephone number.

**Attribute: pri_psap.dn5**
**Fullname:** Digit Number 5

**Attribute Description** This is the 6th digit of the primary PSAP telephone number.

**Attribute: pri_psap.dn6**
**Fullname:** Digit Number 6

**Attribute Description** This is the 7th digit of the primary PSAP telephone number.

**Attribute: pri_psap.dn7**
**Fullname:** Digit Number 7

**Attribute Description** This is the 8th digit of the primary PSAP telephone number.

**Attribute: pri_psap.dn8**
**Fullname:** Digit Number 8

**Attribute Description** This is the 9th digit of the primary PSAP telephone number.

**Attribute: pri_psap.dn9**
**Fullname:** Digit Number 9

**Attribute Description** This is the 10th digit of the primary PSAP telephone number.

**Attribute: pri_psap.dn10**
**Fullname:** Digit Number 10

**Attribute Description** This is the 11th digit of the digit structure.

**Attribute: pri_psap.dn11**
**Fullname:** Digit Number 11

**Attribute Description** This is the 12th digit of the digit structure.

**Attribute: pri_psap.dn12**
**Fullname:** Digit Number 12

**Attribute Description** This is the 13th digit of the digit structure.

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**Attribute: pri_psap.dn13**
**Fullname:** Digit Number 13

**Attribute Description** This is the 14th digit of the digit structure.

**Attribute: pri_psap.dn14**
**Fullname:** Digit Number 14

**Attribute Description** This is the 15th digit of the digit structure.

**Attribute: pri_psap.digcnt**
**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the PSAP telephone number.

**Attribute: alt1_psap**
**Fullname:** First Alternate PSAP Telephone Number

**Attribute Description** This First alternate telephone number is used to route the 911 call in the event that the primary PSAP TN routing failed. It contains a psap telephone number and has a digit count specifying the total number of digits. The digits are stored in order with the first digit (leftmost) stored in digit 0 of the structure, and the second digit in digit 1 of the structure, etc. This field is mandatory and must be populated. It can only contain a 7 or 10 digit DN.

**Attribute: alt1_psap.dn0**
**Fullname:** Digit Number 0

**Attribute Description** This is the 1st digit of the 1st alternate PSAP telephone number.

**Attribute: alt1_psap.dn1**
**Fullname:** Digit Number 1

**Attribute Description** This is the 2nd digit of the 1st alternate PSAP telephone number.

**Attribute: alt1_psap.dn2**
**Fullname:** Digit Number 2

**Attribute Description** This is the 3rd digit of the 1st alternate PSAP telephone number.

**Attribute: alt1_psap.dn3**
**Fullname:** Digit Number 3

**Attribute Description** This is the 4th digit of the 1st alternate PSAP telephone number.

**Attribute: alt1_psap.dn4**
**Fullname:** Digit Number 4

**Attribute Description** This is the 5th digit of the 1st alternate PSAP telephone number.

**Attribute: alt1_psap.dn5**
**Fullname:** Digit Number 5

**Attribute Description** This is the 6th digit of the 1st alternate PSAP telephone number.

**Attribute: alt1_psap.dn6**
**Fullname:** Digit Number 6

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**Attribute Description** This is the 7th digit of the 1st alternate PSAP telephone number.

**Attribute: alt1_psap.dn7**
**Fullname:** Digit Number 7

**Attribute Description** This is the 8th digit of the 1st alternate PSAP telephone number.

**Attribute: alt1_psap.dn8**
**Fullname:** Digit Number 8

**Attribute Description** This is the 9th digit of the 1st alternate PSAP telephone number.

**Attribute: alt1_psap.dn9**
**Fullname:** Digit Number 9

**Attribute Description** This is the 10th digit of the 1st alternate PSAP telephone number.

**Attribute: alt1_psap.dn10**
**Fullname:** Digit Number 10

**Attribute Description** This is the 11th digit of the digit structure.

**Attribute: alt1_psap.dn11**
**Fullname:** Digit Number 11

**Attribute Description** This is the 12th digit of the digit structure.

**Attribute: alt1_psap.dn12**
**Fullname:** Digit Number 12

**Attribute Description** This is the 13th digit of the digit structure.

**Attribute: alt1_psap.dn13**
**Fullname:** Digit Number 13

**Attribute Description** This is the 14th digit of the digit structure.

**Attribute: alt1_psap.dn14**
**Fullname:** Digit Number 14

**Attribute Description** This is the 15th digit of the digit structure.

**Attribute: alt1_psap.digcnt**
**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the PSAP telephone number.

**Attribute: alt2_psap**
**Fullname:** Second alternate PSAP telephone number

**Attribute Description** This Second alternate PSAP telephone number is used to route the 911 call in the event that the primary PSAP TN and the first alternate PSAP TN routing failed. It contains a psap telephone number and has a digit count specifying the total number of digits. The digits are stored in order with the first digit (leftmost) stored in digit 0 of the structure, and the second digit in digit 1 of the structure, etc. This field is not mandatory. It can only contain 0, 7, or 10 digits.

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**Attribute: alt2_psap.dn0**
**Fullname:** Digit Number 0

**Attribute Description** This is the 1st digit of the 2nd alternate PSAP telephone number.

**Attribute: alt2_psap.dn1**
**Fullname:** Digit Number 1

**Attribute Description** This is the 2nd digit of the 2nd alternate PSAP telephone number.

**Attribute: alt2_psap.dn2**
**Fullname:** Digit Number 2

**Attribute Description** This is the 3rd digit of the 2nd alternate PSAP telephone number.

**Attribute: alt2_psap.dn3**
**Fullname:** Digit Number 3

**Attribute Description** This is the 4th digit of the 2nd alternate PSAP telephone number.

**Attribute: alt2_psap.dn4**
**Fullname:** Digit Number 4

**Attribute Description** This is the 5th digit of the 2nd alternate PSAP telephone number.

**Attribute: alt2_psap.dn5**
**Fullname:** Digit Number 5

**Attribute Description** This is the 6th digit of the 2nd alternate PSAP telephone number.

**Attribute: alt2_psap.dn6**
**Fullname:** Digit Number 6

**Attribute Description** This is the 7th digit of the 2nd alternate PSAP telephone number.

**Attribute: alt2_psap.dn7**
**Fullname:** Digit Number 7

**Attribute Description** This is the 8th digit of the 2nd alternate PSAP telephone number.

**Attribute: alt2_psap.dn8**
**Fullname:** Digit Number 8

**Attribute Description** This is the 9th digit of the 2nd alternate PSAP telephone number.

**Attribute: alt2_psap.dn9**
**Fullname:** Digit Number 9

**Attribute Description** This is the 10th digit of the 2nd alternate PSAP telephone number.

**Attribute: alt2_psap.dn10**
**Fullname:** Digit Number 10

**Attribute Description** This is the 11th digit of the digit structure.

**Attribute: alt2_psap.dn11**

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**Fullname:** Digit Number 11

**Attribute Description** This is the 12th digit of the digit structure.

**Attribute: alt2_psap.dn12**
**Fullname:** Digit Number 12

**Attribute Description** This is the 13th digit of the digit structure.

**Attribute: alt2_psap.dn13**
**Fullname:** Digit Number 13

**Attribute Description** This is the 14th digit of the digit structure.

**Attribute: alt2_psap.dn14**
**Fullname:** Digit Number 14

**Attribute Description** This is the 15th digit of the digit structure.

**Attribute: alt2_psap.digcnt**
**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the PSAP telephone number.

**Attribute: selxfer1**
**Fullname:** Selective transfer number 1

**Attribute Description** This is the first selective transfer telephone number. It is used by the PSAPs to do a selective call transfer It contains a selective transfer telephone number but is not mandatory. It also has a digit count specifying the total number of digits. The digits are stored in order with the first digit (leftmost) stored in digit 0 of the structure, and the second digit in digit 1 of the structure, etc. This field is not mandatory. It can contain 0 to 15 digits.

**Attribute: selxfer1.dn0**
**Fullname:** Digit Number 0

**Attribute Description** This is the 1st digit of the 1st selective transfer telephone number.

**Attribute: selxfer1.dn1**
**Fullname:** Digit Number 1

**Attribute Description** This is the 2nd digit of the 1st selective transfer telephone number.

**Attribute: selxfer1.dn2**
**Fullname:** Digit Number 2

**Attribute Description** This is the 3rd digit of the 1st selective transfer telephone number.

**Attribute: selxfer1.dn3**
**Fullname:** Digit Number 3

**Attribute Description** This is the 4th digit of the 1st selective transfer telephone number.

**Attribute: selxfer1.dn4**
**Fullname:** Digit Number 4

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**Attribute Description** This is the 5th digit of the 1st selective transfer telephone number.

**Attribute: selxfer1.dn5**
**Fullname:** Digit Number 5

**Attribute Description** This is the 6th digit of the 1st selective transfer telephone number.

**Attribute: selxfer1.dn6**
**Fullname:** Digit Number 6

**Attribute Description** This is the 7th digit of the 1st selective transfer telephone number.

**Attribute: selxfer1.dn7**
**Fullname:** Digit Number 7

**Attribute Description** This is the 8th digit of the 1st selective transfer telephone number.

**Attribute: selxfer1.dn8**
**Fullname:** Digit Number 8

**Attribute Description** This is the 9th digit of the 1st selective transfer telephone number.

**Attribute: selxfer1.dn9**
**Fullname:** Digit Number 9

**Attribute Description** This is the 10th digit of the 1st selective transfer telephone number.

**Attribute: selxfer1.dn10**
**Fullname:** Digit Number 10

**Attribute Description** This is the 11th digit of the digit structure .

**Attribute: selxfer1.dn11**
**Fullname:** Digit Number 11

**Attribute Description** This is the 12th digit of the digit structure .

**Attribute: selxfer1.dn12**
**Fullname:** Digit Number 12

**Attribute Description** This is the 13th digit of the digit structure .

**Attribute: selxfer1.dn13**
**Fullname:** Digit Number 13

**Attribute Description** This is the 14th digit of the digit structure .

**Attribute: selxfer1.dn14**
**Fullname:** Digit Number 14

**Attribute Description** This is the 15th digit of the digit structure .

**Attribute: selxfer1.digcnt**
**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the 1st selective call transfer

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telephone number.

**Attribute: selxfer2**

**Fullname:** Selective Transfer Number 2

**Attribute Description** This is the second selective transfer telephone number. It is used by the PSAPs to do a selective call transfer. It contains a selective transfer telephone number but is not mandatory. It also has a digit count specifying the total number of digits. The digits are stored in order with the first digit (leftmost) stored in digit 0 of the structure, and the second digit in digit 1 of the structure, etc. This field is not mandatory. It can contain 0 to 15 digits.

**Attribute: selxfer2.dn0**

**Fullname:** Digit Number 0

**Attribute Description** This is the 1st digit of the 2nd selective transfer telephone number.

**Attribute: selxfer2.dn1**

**Fullname:** Digit Number 1

**Attribute Description** This is the 2nd digit of the 2nd selective transfer telephone number.

**Attribute: selxfer2.dn2**

**Fullname:** Digit Number 2

**Attribute Description** This is the 3rd digit of the 2nd selective transfer telephone number.

**Attribute: selxfer2.dn3**

**Fullname:** Digit Number 3

**Attribute Description** This is the 4th digit of the 2nd selective transfer telephone number.

**Attribute: selxfer2.dn4**

**Fullname:** Digit Number 4

**Attribute Description** This is the 5th digit of the 2nd selective transfer telephone number.

**Attribute: selxfer2.dn5**

**Fullname:** Digit Number 5

**Attribute Description** This is the 6th digit of the 2nd selective transfer telephone number.

**Attribute: selxfer2.dn6**

**Fullname:** Digit Number 6

**Attribute Description** This is the 7th digit of the 2nd selective transfer telephone number.

**Attribute: selxfer2.dn7**

**Fullname:** Digit Number 7

**Attribute Description** This is the 8th digit of the 2nd selective transfer telephone number.

**Attribute: selxfer2.dn8**

**Fullname:** Digit Number 8

**Attribute Description** This is the 9th digit of the 2nd selective transfer telephone number.

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**Attribute: selxfer2.dn9**
**Fullname:** Digit Number 9

**Attribute Description** This is the 10th digit of the 2nd selective transfer telephone number.

**Attribute: selxfer2.dn10**
**Fullname:** Digit Number 10

**Attribute Description** This is the 11th digit of the digit structure.

**Attribute: selxfer2.dn11**
**Fullname:** Digit Number 11

**Attribute Description** This is the 12th digit of the digit structure.

**Attribute: selxfer2.dn12**
**Fullname:** Digit Number 12

**Attribute Description** This is the 13th digit of the digit structure.

**Attribute: selxfer2.dn13**
**Fullname:** Digit Number 13

**Attribute Description** This is the 14th digit of the digit structure.

**Attribute: selxfer2.dn14**
**Fullname:** Digit Number 14

**Attribute Description** This is the 15th digit of the digit structure.

**Attribute: selxfer2.digcnt**
**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the 2nd selective transfer telephone number.

**Attribute: selxfer3**
**Fullname:** Selective Call Transfer Number 3

**Attribute Description** This is the third selective transfer telephone number. It is used by the PSAPs to do a selective call transfer. It contains a selective transfer telephone number but is not mandatory. It also has a digit count specifying the total number of digits. The digits are stored in order with the first digit (leftmost) stored in digit 0 of the structure, and the second digit in digit 1 of the structure, etc. This field is not mandatory. It can contain 0 to 15 digits.

**Attribute: selxfer3.dn0**
**Fullname:** Digit Number 0

**Attribute Description** This is the 1st digit of the 3rd selective transfer telephone number.

**Attribute: selxfer3.dn1**
**Fullname:** Digit Number 1

**Attribute Description** This is the 2nd digit of the 3rd selective transfer telephone number.

**Attribute: selxfer3.dn2**

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**Fullname:** Digit Number 2

**Attribute Description** This is the 3rd digit of the 3rd selective transfer telephone number.

**Attribute: selxfer3.dn3**
**Fullname:** Digit Number 3

**Attribute Description** This is the 4th digit of the 3rd selective transfer telephone number.

**Attribute: selxfer3.dn4**
**Fullname:** Digit Number 4

**Attribute Description** This is the 5th digit of the 3rd selective transfer telephone number.

**Attribute: selxfer3.dn5**
**Fullname:** Digit Number 5

**Attribute Description** This is the 6th digit of the 3rd selective transfer telephone number.

**Attribute: selxfer3.dn6**
**Fullname:** Digit Number 6

**Attribute Description** This is the 7th digit of the 3rd selective transfer telephone number.

**Attribute: selxfer3.dn7**
**Fullname:** Digit Number 7

**Attribute Description** This is the 8th digit of the 3rd selective transfer telephone number.

**Attribute: selxfer3.dn8**
**Fullname:** Digit Number 8

**Attribute Description** This is the 9th digit of the 3rd selective transfer telephone number.

**Attribute: selxfer3.dn9**
**Fullname:** Digit Number 9

**Attribute Description** This is the 10th digit of the 3rd selective transfer telephone number.

**Attribute: selxfer3.dn10**
**Fullname:** Digit Number 10

**Attribute Description** This is the 11th digit of the digit structure.

**Attribute: selxfer3.dn11**
**Fullname:** Digit Number 11

**Attribute Description** This is the 12th digit of the digit structure.

**Attribute: selxfer3.dn12**
**Fullname:** Digit Number 12

**Attribute Description** This is the 13th digit of the digit structure.

**Attribute: selxfer3.dn13**
**Fullname:** Digit Number 13

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**Attribute Description** This is the 14th digit of the digit structure.

**Attribute: selxfer3.dn14**

**Fullname:** Digit Number 14

**Attribute Description** This is the 15th digit of the digit structure.

**Attribute: selxfer3.digcnt**

**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the 3rd selective transfer telephone number.

**Attribute: selxfer4**

**Fullname:** Selective transfer number 4

**Attribute Description** This is the forth selective transfer telephone number. It is used by the PSAPs to do a selective call transfer. It contains a selective transfer telephone number but is not mandatory. It also has a digit count specifying the total number of digits. The digits are stored in order with the first digit (leftmost) stored in digit 0 of the structure, and the second digit in digit 1 of the structure, etc. This field is not mandatory. It can contain 0 to 15 digits.

**Attribute: selxfer4.dn0**

**Fullname:** Digit Number 0

**Attribute Description** This is the 1st digit of the 4th selective transfer telephone number.

**Attribute: selxfer4.dn1**

**Fullname:** Digit Number 1

**Attribute Description** This is the 2nd digit of the 4th selective transfer telephone number.

**Attribute: selxfer4.dn2**

**Fullname:** Digit Number 2

**Attribute Description** This is the 3rd digit of the 4th selective transfer telephone number.

**Attribute: selxfer4.dn3**

**Fullname:** Digit Number 3

**Attribute Description** This is the 4th digit of the 4th selective transfer telephone number.

**Attribute: selxfer4.dn4**

**Fullname:** Digit Number 4

**Attribute Description** This is the 5th digit of the 4th selective transfer telephone number.

**Attribute: selxfer4.dn5**

**Fullname:** Digit Number 5

**Attribute Description** This is the 6th digit of the 4th selective transfer telephone number.

**Attribute: selxfer4.dn6**

**Fullname:** Digit Number 6

**Attribute Description** This is the 7th digit of the 4th selective transfer telephone number.

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**Attribute: selxfer4.dn7**
**Fullname:** Digit Number 7

**Attribute Description** This is the 8th digit of the 4th selective transfer telephone number.

**Attribute: selxfer4.dn8**
**Fullname:** Digit Number 8

**Attribute Description** This is the 9th digit of the 4th selective transfer telephone number.

**Attribute: selxfer4.dn9**
**Fullname:** Digit Number 9

**Attribute Description** This is the 10th digit of the 4th selective transfer telephone number.

**Attribute: selxfer4.dn10**
**Fullname:** Digit Number 10

**Attribute Description** This is the 11th digit of the digit structure.

**Attribute: selxfer4.dn11**
**Fullname:** Digit Number 11

**Attribute Description** This is the 12th digit of the digit structure.

**Attribute: selxfer4.dn12**
**Fullname:** Digit Number 12

**Attribute Description** This is the 13th digit of the digit structure.

**Attribute: selxfer4.dn13**
**Fullname:** Digit Number 13

**Attribute Description** This is the 14th digit of the digit structure.

**Attribute: selxfer4.dn14**
**Fullname:** Digit Number 14

**Attribute Description** This is the 15th digit of the digit structure.

**Attribute: selxfer4.digcnt**
**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the 4th selective call transfer telephone number.

**Attribute: selxfer5**
**Fullname:** Selective transfer number 5

**Attribute Description** This is the fifth selective transfer telephone number. It is used by the PSAPs to do a selective call transfer. It contains a selective transfer telephone number but is not mandatory. It also has a digit count specifying the total number of digits. The digits are stored in order with the first digit (leftmost) stored in digit 0 of the structure, and the second digit in digit 1 of the structure, etc. This field is not mandatory. It can contain 0 to 15 digits.

**Attribute: selxfer5.dn0**

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**Fullname:** Digit Number 0

**Attribute Description** This is the 1st digit of the 5th selective transfer telephone number.

**Attribute: selxfer5.dn1**
**Fullname:** Digit Number 1

**Attribute Description** This is the 2nd digit of the 5th selective transfer telephone number.

**Attribute: selxfer5.dn2**
**Fullname:** Digit Number 2

**Attribute Description** This is the 3rd digit of the 5th selective transfer telephone number.

**Attribute: selxfer5.dn3**
**Fullname:** Digit Number 3

**Attribute Description** This is the 4th digit of the 5th selective transfer telephone number.

**Attribute: selxfer5.dn4**
**Fullname:** Digit Number 4

**Attribute Description** This is the 5th digit of the 5th selective transfer telephone number.

**Attribute: selxfer5.dn5**
**Fullname:** Digit Number 5

**Attribute Description** This is the 6th digit of the 5th selective transfer telephone number.

**Attribute: selxfer5.dn6**
**Fullname:** Digit Number 6

**Attribute Description** This is the 7th digit of the 5th selective transfer telephone number.

**Attribute: selxfer5.dn7**
**Fullname:** Digit Number 7

**Attribute Description** This is the 8th digit of the 5th selective transfer telephone number.

**Attribute: selxfer5.dn8**
**Fullname:** Digit Number 8

**Attribute Description** This is the 9th digit of the 5th selective transfer telephone number.

**Attribute: selxfer5.dn9**
**Fullname:** Digit Number 9

**Attribute Description** This is the 10th digit of the 5th selective transfer telephone number.

**Attribute: selxfer5.dn10**
**Fullname:** Digit Number 10

**Attribute Description** This is the 11th digit of the digit structure.

**Attribute: selxfer5.dn11**
**Fullname:** Digit Number 11

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**Attribute Description** This is the 12th digit of the digit structure.

**Attribute: selxfer5.dn12**
**Fullname:** Digit Number 12

**Attribute Description** This is the 13th digit of the digit structure.

**Attribute: selxfer5.dn13**
**Fullname:** Digit Number 13

**Attribute Description** This is the 14th digit of the digit structure.

**Attribute: selxfer5.dn14**
**Fullname:** Digit Number 14

**Attribute Description** This is the 15th digit of the digit structure.

**Attribute: selxfer5.digcnt**
**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the 5th selective call transfer telephone number.

**Attribute: selxfer6**
**Fullname:** Selective transfer number 6

**Attribute Description** This is the sixth selective transfer telephone number. It is used by the PSAPs to do a selective call transfer. It contains a selective transfer telephone number but is not mandatory. It also has a digit count specifying the total number of digits. The digits are stored in order with the first digit (leftmost) stored in digit 0 of the structure, and the second digit in digit 1 of the structure, etc. This field is not mandatory. It can contain 0 to 15 digits.

**Attribute: selxfer6.dn0**
**Fullname:** Digit Number 0

**Attribute Description** This is the 1st digit of the 6th selective transfer telephone number.

**Attribute: selxfer6.dn1**
**Fullname:** Digit Number 1

**Attribute Description** This is the 2nd digit of the 6th selective transfer telephone number.

**Attribute: selxfer6.dn2**
**Fullname:** Digit Number 2

**Attribute Description** This is the 3rd digit of the 6th selective transfer telephone number.

**Attribute: selxfer6.dn3**
**Fullname:** Digit Number 3

**Attribute Description** This is the 4th digit of the 6th selective transfer telephone number.

**Attribute: selxfer6.dn4**
**Fullname:** Digit Number 4

**Attribute Description** This is the 5th digit of the 6th selective transfer telephone number.

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**Attribute: selxfer6.dn5**
**Fullname:** Digit Number 5

**Attribute Description** This is the 6th digit of the 6th selective transfer telephone number.

**Attribute: selxfer6.dn6**
**Fullname:** Digit Number 6

**Attribute Description** This is the 7th digit of the 6th selective transfer telephone number.

**Attribute: selxfer6.dn7**
**Fullname:** Digit Number 7

**Attribute Description** This is the 8th digit of the 6th selective transfer telephone number.

**Attribute: selxfer6.dn8**
**Fullname:** Digit Number 8

**Attribute Description** This is the 9th digit of the 6th selective transfer telephone number.

**Attribute: selxfer6.dn9**
**Fullname:** Digit Number 9

**Attribute Description** This is the 10th digit of the 6th selective transfer telephone number.

**Attribute: selxfer6.dn10**
**Fullname:** Digit Number 10

**Attribute Description** This is the 11th digit of the digit structure.

**Attribute: selxfer6.dn11**
**Fullname:** Digit Number 11

**Attribute Description** This is the 12th digit of the digit structure.

**Attribute: selxfer6.dn12**
**Fullname:** Digit Number 12

**Attribute Description** This is the 13th digit of the digit structure.

**Attribute: selxfer6.dn13**
**Fullname:** Digit Number 13

**Attribute Description** This is the 14th digit of the digit structure.

**Attribute: selxfer6.dn14**
**Fullname:** Digit Number 14

**Attribute Description** This is the 15th digit of the digit structure.

**Attribute: selxfer6.digcnt**
**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the 6th selective call transfer telephone number.

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# EC5OPTS

## 1. Description

Per EC5 hardware options.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 120 |
| expected tuples in relation | 20 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
EC5OPTS     relid = 1199  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     name         DMCIRCUIT    (ushort)     <--- key
     ebig         DMUNS15      (ushort: 15)
 (a) nb_engdt     DMBOOL       (enum: 1)
     yhi          DMUNS15      (ushort: 15)
 (b) tn_match     DMBOOL       (enum: 1)
     ysmall       DMUNS10      (ushort: 10)
     glot26       DMUNS6       (ushort: 6)
     neshoc       DMUNS9       (ushort: 9)
     leak_opt     DMUNS5       (ushort: 5)
 (c) ec_byp       DMBOOL       (enum: 1)
 (d) trans_en     DMBOOL       (enum: 1)
     reshoc       DMUNS9       (ushort: 9)
     dllow        DMUNS7       (ushort: 7)
     trehoc       DMUNS9       (ushort: 9)
     nb_leak      DMUNS5       (ushort: 5)
 (e) tone_dis     DMTONE_DIS   (enum: 2)
     nesphoc      DMUNS9       (ushort: 9)
 (f) alpha_val    DMALPHA      (enum: 4)
 (g) end_path     DMEND_PATH   (enum: 3)
     addtac       DMUNS9       (ushort: 9)
     pkf4t19      DMUNS4       (ushort: 4)
 (h) beta_val     DMUNS3       (ushort: 3)
     nbpft19      DMUNS4       (ushort: 4)
     fstht27      DMUNS4       (ushort: 4)
 (i) rsd_ectl     DMBOOL       (enum: 1)
 (j) vp_asran     DMBOOL       (enum: 1)
 (k) cmp_line     DMCOMPND     (enum: 1)
 (l) cmp_drop     DMCOMPND     (enum: 1)
 (m) hpfenx       DMUNS1       (ushort: 1)
 (n) hpfeny       DMUNS1       (ushort: 1)
 (o) hiclmp       DMUNS1       (ushort: 1)
 (p) govres       DMUNS1       (ushort: 1)
 (q) ufrmpas      DMUNS1       (ushort: 1)
 (r) eoves        DMUNS1       (ushort: 1)
 (s) eovclmp      DMUNS1       (ushort: 1)
 (t) gxmadj       DMUNS1       (ushort: 1)
 (u) gxaadj       DMUNS1       (ushort: 1)
```

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```
 (v) gymadj      DMUNS1       (ushort: 1)
 (w) gyaadj      DMUNS1       (ushort: 1)
 (x) duble       DMUNS1       (ushort: 1)
 (y) cdly        DMUNS1       (ushort: 1)
 (z) fesen       DMUNS1       (ushort: 1)
 (A) nesen       DMUNS1       (ushort: 1)
 (B) testub      DMUNS1       (ushort: 1)
        User, Compacted and Stored Tuple Layout    EC5OPTS
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               | |
 0 |              name             |             ebig              |a|
   |---------------+---------------+---------------+---------------|
   |                             | |                   |           |
 4 |             yhi             |b|       ysmall      |   glot26  |
   |---------------+---------------+---------------+---------------|
   |                 |         | | |                 |           |
 8 |      neshoc     | leak_opt|c|d|      reshoc     |    dllow    |
   |---------------+---------------+---------------+---------------|
   |                 |         |   |                 |       |     |
12 |      trehoc     | nb_leak | e |     nesphoc     |   f   |  g  |
   |---------------+---------------+---------------+---------------|
   |                 |       |     |       |       | | | | | | | | |
16 |      addtac     |pkf4t19|  h  |nbpft19|fstht27|i|j|k|l|m|n|o|p|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | |                                       |
20 |q|r|s|t|u|v|w|x|y|z|A|B|***************************************|
   |---------------+---------------+---------------+---------------|
      ( 24 bytes )
```

## 4. Population Rules for RLec5opts

**Relation Description** Echo Canceling boards (EC5) options.
This relation contains variables that set up the hardware of Echo Canceling boards(EC5s).

**Attribute: name**

**Fullname:** Circuit name

**Attribute Description** Contains the circuit name of an EC5. The relation should contain one tuple for each EC5 in a SM. This attribute is the key to the relation.

**Attribute: end_path**

**Fullname:** End path delay

**Attribute Description** This attribute indicates how much echo cancellation end path delay is needed for EC5.

**Attribute: tone_dis**

**Fullname:** Tone disabling

**Attribute Description** This attribute indicates the state of the tone disabling function for EC5.

**Attribute: alpha_val**

**Fullname:** Alpha value or gain

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**Attribute Description** The alpha_val determines the alpha value or return loss used by EC5.

**Attribute: tn_match**

**Fullname:** Transient noise matching

**Attribute Description** The tn_match determines whether transient noise matching is turned on or off on EC5.

**Attribute: nb_engdt**

**Fullname:** Narrow band energy detection

**Attribute Description** The nb_engdt indicates the on/off state of narrow band energy detection of EC5.

**Attribute: ec_byp**

**Fullname:** Third generation echo canceller chipset bypass

**Attribute Description** Setting this to DBYES bypasses the echo canceller devices on the EC5. In order for the setting of this variable to take effect, the DFI which is paired with the EC5 'name' must be restored or a full or a selective initialization must take place.

**Attribute: trans_en**

**Fullname:** Transient echo control enable

**Attribute Description** Transient echo control enable/disable, open center clip switch on transient.

**Attribute: rsd_ectl**

**Fullname:** Residual echo control

**Attribute Description** Residual echo control or center clipping enable/disable.

**Attribute: vp_asran**

**Fullname:** Voice path assurance enable

**Attribute Description** Indicates whether voice path assurance tests are run continuously in the hardware: Hardware designers recommend DBNO, voice may simulate voice path assurance test if enabled. Also known as vpaen.

**Attribute: beta_val**

**Fullname:** Beta value

**Attribute Description** Determines the value of the center clip threshold.

**Attribute: leak_opt**

**Fullname:** Leak option value

**Attribute Description** When the echo canceller is driven by a narrow band signal, some of the impulse response coefficients might tend to diverge. This divergence can be eliminated by introducing 'leak' into the updating circuit.

**Attribute: nb_leak**

**Fullname:** Narrow band leak option value

**Attribute Description** The narrow band leak option has the same meaning as the leak option in the previous CCB register except that this value is used when narrow band energy is detected.

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**Attribute: cmp_line**

**Fullname:** Companding law used on line (DFI) side of EC5.

**Attribute Description** This is used to set the companding law, either A law or Mu law sent and expected on the FAR end PIDB. This attribute must be equal to Glcompnd.

**Attribute: cmp_drop**

**Fullname:** Companding law used on drop (TSI) side of EC5.

**Attribute Description** This is used to set the companding law, either A law or Mu law sent and expected on the NEAR end PIDB. This attribute must be equal to Glcompnd.

**Attribute: hpfenx**

**Fullname:** High pass filter enable (x)

**Attribute Description** High pass filter enable on x - facility end input

**Attribute: hpfeny**

**Fullname:** High pass filter enable (y)

**Attribute Description** High pass filter enable on y - drop end input.

**Attribute: hiclmp**

**Fullname:** High clamping

**Attribute Description** High clamping

**Attribute: pkf4t19**

**Fullname:** Peak factor

**Attribute Description** The value of this attribute is 7 for 32MS end path delay time, and 6 for 64MS end path delay time.

**Attribute: nbpft19**

**Fullname:** Narrow band peak factor

**Attribute Description** Narrow band peak factor

**Attribute: fstht27**

**Fullname:** Far end speech threshold

**Attribute Description** Far end speech threshold

**Attribute: glot26**

**Fullname:** Loop gain

**Attribute Description** Gain overflow reset. The valid range of this attribute is 28 thru 34.

**Attribute: govres**

**Fullname:** H overflow reset

**Attribute Description** H overflow reset

**Attribute: ufrmpas**

**Fullname:** I/O format conversion

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**Attribute Description** I/O format conversion

**Attribute: neshoc**

**Fullname:** Near end speech detection hang over count.

**Attribute Description** Near end speech detection hang over count.

**Attribute: reshoc**

**Fullname:** Residual echo control hang over count

**Attribute Description** The value of this attribute is 255 for 32MS end path delay and 196 for 64MS end path delay.

**Attribute: trehoc**

**Fullname:** Transient echo control hangover count.

**Attribute Description** The value of this attribute is 16 for 32MS end path delay and 8 for 64MS end path delay.

**Attribute: nesphoc**

**Fullname:** Near end speech detector hangover count.

**Attribute Description** Near end speech detector hangover count

**Attribute: eoves Fullname:** E output overflow reset.

**Attribute Description** E output overflow reset

**Attribute: eovclmp**

**Fullname:** Clamp e if e overflow

**Attribute Description** Clamp e if e overflow

**Attribute: ebig**

**Fullname:** E big

**Attribute Description** The value of this attribute is 4 for 32MS end path delay and 2 for 64MS end path delay.

**Attribute: yhi**

**Fullname:** Y high

**Attribute Description** Y high

**Attribute: ysmall**

**Fullname:** Y small

**Attribute Description** The value of this attribute is 2 for 32MS end path delay and 1 for 64MS end path delay.

**Attribute: gxmadj**

**Fullname:** Special Mu law adjustment at x

**Attribute Description** Required if echo cancellation and the high pass filter are both enabled.

**Attribute: gxaadj**

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**Fullname:** Special A law adjustment at x.

**Attribute Description** Required if echo cancellation and the high pass filter are both enabled.

**Attribute: gymadj**

**Fullname:** Special Mu law adjustment at y.

**Attribute Description** Required if echo cancellation and the high pass filter are both enabled.

**Attribute: gyaadj**

**Fullname:** Special A law adjustment at y.

**Attribute Description** Required if echo cancellation and the high pass filter are both enabled.

**Attribute: duble**

**Fullname:** Double precision

**Attribute Description** Double precision

**Attribute: cdly**

**Fullname:** C output delay

**Attribute Description** C output delay

**Attribute: addtac**

**Fullname:** Address of top of x in shift register.

**Attribute Description** Address of top of x in shift register.

**Attribute: fesen**

**Fullname:** Far end speech detector enable.

**Attribute Description** Far end speech detector enable.

**Attribute: nesen**

**Fullname:** Near end speech detector enable.

**Attribute Description** Near end speech detector enable.

**Attribute: dllow**

**Fullname:** Gain offset in convolution update chip.

**Attribute Description** Gain offset in convolution update chip

**Attribute: testub**

**Fullname:** Ec testing option

**Attribute Description** For use in testing the echo cancellation chipset.

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# EDS_CF

## 1. Description

Electronic directory service (EDS) constructed feature options and defaults - used in SM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1023 |
| expected number of tuples | 5 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
EDS_CF      relid = 837   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     feat_id     DMMCC_FID    (ushort)     <--- key, not stored
 (a) dqd         DMBOOL       (enum: 1)
 (b) nd_prim     DMBOOL       (enum: 1)
 (c) nd_dn       DMBOOL       (enum: 1)
 (d) aucsu       DMBOOL       (enum: 1)
         User and Compacted Tuple Layout     EDS_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             feat_id           |*******************************|
    |---------------+---------------+---------------+---------------|
    | | | | |                                                       |
  4 |a|b|c|d|*******************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
 (a) dqd         DMBOOL       (enum: 1)
 (b) nd_prim     DMBOOL       (enum: 1)
 (c) nd_dn       DMBOOL       (enum: 1)
 (d) aucsu       DMBOOL       (enum: 1)
           Stored Tuple Layout   EDS_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | | | | |                                                       |
  0 |a|b|c|d|*******************************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLeds_cf

**Relation Description** EDS constructed feature options and defaults - used in the switching module (SM).

**Attribute: feat_id**

**Fullname:** EDS constructed feature ID

**Attribute Description** A business and residential customer service (BRCS) constructed feature ID

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consists of two parts when class equals FACBRCS and subclass equals SCL_FEAT: a modular feature type (top six bits, bits 10 - 15) and an unique identifier (bottom ten bits, bits 0 - 9). For an EDS constructed feature ID, the modular feature type must equal MFEDS, which is an enumeration of type DMMFTYPE. The unique identifier ranges from 1 to 1023 (0x1 to 0x3ff).
Dependencies:

```
Verify that RLfacname has a tuple such that:
RLfacname.facid    = RLeds_cf.feat_id
RLfacname.class    = FACBRCS
RLfacname.subclass = SCL_FEAT

Verify that RLfid2name has a tuple such that:
RLfid2name.facid    = RLeds_cf.feat_id
RLfid2name.class    = FACBRCS
RLfid2name.subclass = SCL_FEAT

Verify that RLeds_opts has a tuple such that:
RLeds_opts.feat_id = RLeds_cf.feat_id
```

**Attribute: dqd**

**Fullname:** Directory query display (DQD)
**Attribute Description** Boolean value indicating whether directory query display is allowed. The DQD option is assigned on a per primary directory number (DN) basis. Station users with this option assigned to their primary DN should be able to invoke DQD. The DQD option is not assignable on a secondary only DN or a secondary only multi-line hunt group (MLHG).
Must be equal to DBNO unless 'servclass' equals FC_ISDN or FC_ISATND. Must be equal to DBNO unless 'ltm_type' equals LTM_ISDN. DN shared with analog line should be equal to DBNO.
Dependencies:

```
Enumeration Value   Dependency
DBNO
DBYES
```

The checks for this attribute have been implemented in RLeds_port.

**Attribute: nd_prim**

**Fullname:** Calling name display (CND) primary DN

**Attribute Description** Boolean value indicating whether CND primary DN is allowed. If this option is DBYES for a DN, then it is assignable on a primary DN (lead port if there is no primary DN), secondary only DN, and a secondary only MLHG. These DNs will receive CND.
Must be equal to DBNO unless 'servclass' equals FC_ISDN or FC_ISATND. Must be equal to DBNO unless 'ltm_type' equals LTM_ISDN. DN shared with analog line should be equal to DBNO.
Range: DBYES, DBNO
Default: DBNO
Dependencies:

```
Enumeration Value  Dependency
DBNO               None
DBYES              If CND primary DN (nd_prim) is equal
                   to DBYES, then shared DN (nd_dn) must
                   be equal to DBNO.
                   If this DN has a line ID (LID)
                   constructed feature and the calling
                   name display option (RLeds_cf.nd_prim
                   equal to DBYES) is selected, then
```

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RLlid_cf.cnd_prim equals DBYES and
RLlid_cf.cnd_all equals DBNO (the
exception being if RLlid_cf.cnd_prim
equals DBNO, then RLlid_cf.cnd_all
must be equal to DBNO).

The checks for this attribute have been implemented in RLeds_port.

**Attribute: nd_dn**

**Fullname:** Calling name display (CND) shared DN

**Attribute Description** Boolean value indicating whether CND shared DN is allowed. If this option is DBYES for a DN, then CND is available for all terminals which share this DN. This option can be DBYES for a secondary only DN or a secondary only MLHG.
Must be equal to DBNO unless 'servclass' equals FC_ISDN or FC_ISATND.
Must be equal to DBNO unless 'ltm_type' equals LTM_ISDN. DN shared with analog line should be equal to DBNO.

Range: DBYES, DBNO

Default: DBNO

Dependencies: Enumeration Value Dependency DBNO None

DBYES If CND shared DN (nd_dn) is equal to DBYES, then primary DN (nd_prim) must be equal to DBNO.
If this DN has an LID constructed feature and the CND option (RLeds_cf.nd_dn equal to DBYES) is selected, then RLlid_cf.cnd_all equals DBYES and RLlid_cf.cnd_prim equals DBNO (the exception being if
RLlid_cf.cnd_all is equal to DBNO, then
RLlid_cf.cnd_prim must be equal to DBNO).
The checks for this attribute have been implemented in RLeds_port.

**Attribute: aucsu**

**Fullname:** Auto-call set up

**Attribute Description** Boolean value indicating whether auto-call set-up is allowed. Auto-call option is provided on a per primary DN basis. It can be activated from any call appearance on a terminal which has the auto-call option assigned to the primary DN. The auto-call option is not assignable on a secondary only DN or a secondary only MLHG.
Must be equal to DBNO unless 'servclass' equals FC_ISDN or FC_ISATND.
Must be equal to DBNO unless 'ltm_type' equals LTM_ISDN.
DN shared with analog line should be equal to DBNO.

Dependencies:

| Enumeration Value | Dependency |
|---|---|
| DBNO | none |
| DBYES | When assigned to an MLHG member that is not the first member, verify that RLis_line(lead_module, ltm_idx).noc does not equal zero and that RLeds_cf.dqd equals DBNO. |

The checks for this attribute have been implemented in RLeds_port.

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# EDS_GRP

## 1. Description

Electronic directory service group ID.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | DBNO |

## 3. Field Layout

```
EDS_GRP     relid = 838   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP
     eds_grpid   DMMDSGRPN    (ushort: 10)     <--- key, not stored
     gcsrid      DMUNS16      (ushort)
     ap_id       DMAPSITE     (ushort: 8)
     ffcf3       DMUNS4       (ushort: 4)
 (a) psswrd      DMBOOL       (enum: 1)
 (b) msrmnt      DMBOOL       (enum: 1)
 (c) ffcf1       DMBOOL       (enum: 1)
 (d) ffcf2       DMBOOL       (enum: 1)
         User and Compacted Tuple Layout    EDS_GRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  0 |     eds_grpid     |*******************************************|
    |---------------+---------------+---------------+---------------|
    |                               |               |       | | | | |
  4 |             gcsrid            |     ap_id     | ffcf3 |a|b|c|d|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     gcsrid      DMUNS16      (ushort)
     ap_id       DMAPSITE     (ushort: 8)
     ffcf3       DMUNS4       (ushort: 4)
 (a) psswrd      DMBOOL       (enum: 1)
 (b) msrmnt      DMBOOL       (enum: 1)
 (c) ffcf1       DMBOOL       (enum: 1)
 (d) ffcf2       DMBOOL       (enum: 1)
           Stored Tuple Layout      EDS_GRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |       | | | | |
  0 |             gcsrid            |     ap_id     | ffcf3 |a|b|c|d|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLeds_grp

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**Relation Description** Electronic directory service (EDS) group ID.

**Attribute: eds_grpid**

**Fullname:** Electronic directory service (EDS) group ID
**Attribute Description** EDS group ID (10 bits: bits 0-9), is an identifier resulting from the conversion from an 8 character EDS group name using RLfacname. The eds_grpid is arranged sequentially starting at 1. When an eds_grpid is freed-up, that position will be re-claimed before adding one more to the end of the list. Refer to RLfacids poprules for reclaiming policy.
Dependencies: A tuple must exist in this relation for each non-zero EDS group ID in the RLeds_port relation

Verify that RLfacname has a tuple such that: RLfacname.facid = eds_grpid (compare RLfacname.facid low order bits (bits 0-9) against eds_grpid) RLfacname.class = FACEDS RLfacname.subclass = SCL_NULL

Verify that RLfid2name has a tuple such that: RLfid2name.facid = eds_grpid (compare RLfid2name.facid low order bits (bits 0-9) against eds_grpid) RLfid2name.class = FACEDS RLfid2name.subclass = SCL_NULL

**Attribute: gcsrid**

**Fullname:** Business customer ID
**Attribute Description** A non-zero gcsrid is required for an EDS group.
If a line is a member of an EDS group with a gcsrid greater than 0 and also a member of a message desk service (MDS) group with a gcsrid greater than 0, the gcsrid of the MDS group must be the same as the gcsrid of the EDS group to which the line is assigned.

**Attribute: ap_id**

**Fullname:** Application processor (AP) ID (APID)
**Attribute Description** Verify that EDS is not allowed on an AP hosted by the administrative module (AM) and RLcmapdata.module must not = 0.
For value of 1 to 255:
Verify that RLcmapdata has a tuple such that: RLcmapdata.site_id = ap_id.

**Attribute: psswrd**

**Fullname:** Password option
**Attribute Description** Boolean value to indicate whether the password option is assigned.

**Attribute: msrmnt**

**Fullname:** Measurement flag
**Attribute Description** If RLms_ap has a tuple such that RLms_ap(EDS,DBNO).edmsgp'n'= RLeds_grp.eds_grpid, (1<= n <= 25) then RLeds_grp.msrmnt = DBYES else RLeds_grp.msrmnt = DBNO.
When deleting a tuple from this relation and if the msrmnt flag is set to DBYES then, zero out the edmsgp'n' field and decrement the idscnt field by 1 in RLms_ap(EDS, DBNO) relation.

**Attribute: ffcf1**

**Fullname:** bit reserved for future field feature use
**Attribute Description** Not assigned yet.

**Attribute: ffcf2**

**Fullname:** bit reserved for future field feature use
**Attribute Description** Not assigned yet.

**Attribute: ffcf3**

**Fullname:** unsigned 4 reserved for future field feature use

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**Attribute Description** Not assigned yet.

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# EDS_OPTS

## 1. Description

Electronic directory service (EDS) constructed feature options and defaults. This is used in the AM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1023 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| intermediate page size | 256 |
| page level | 3 |

## 3. Field Layout

```
EDS_OPTS    relid = 839   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     feat_id     DMMCC_FID    (ushort)     <--- key
 (a) dqd         DMBOOL       (enum: 1)
 (b) nd_prim     DMBOOL       (enum: 1)
 (c) nd_dn       DMBOOL       (enum: 1)
 (d) aucsu       DMBOOL       (enum: 1)
     edsgpname   DMFACNAME    (array [ 8 ] of char )
         User, Compacted and Stored Tuple Layout   EDS_OPTS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 | | | | |       |               |
  0 |            feat_id              |a|b|c|d|*******|   edsgpname   |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                   |
  4 |                           edsgpname                               |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                   |               |
  8 |                   edsgpname                       |***************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLeds_opts

**Relation Description** EDS constructed feature options and defaults.

```
/EDAP            eds aucall and cndprim
dqd     DBNO
aucsu   DBYES
nd_prim DBYES
nd_dn   DBNO
/EDP             eds cndprim only
dqd     DBNO
aucsu   DBNO
nd_prim DBYES
nd_dn   DBNO
```

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```
/EDS              eds cndshared only
dqd      DBNO
aucsu    DBNO
nd_prim DBNO
nd_dn    DBYES
/EDA              eds aucall only
dqd      DBNO
aucsu    DBYES
nd_prim DBNO
nd_dn    DBNO
/EDQAP            eds dqd, aucall and cndprim
dqd      DBYES
aucsu    DBYES
nd_prim DBYES
nd_dn    DBNO
/EDQA             eds dqd and aucall
dqd      DBYES
aucsu    DBYES
nd_prim DBNO
nd_dn    DBNO
/EDNULL           eds no options
dqd      DBNO
aucsu    DBNO
nd_prim DBNO
nd_dn    DBNO
/ED*              eds wild card feature
dqd      DBYES
aucsu    DBYES
nd_prim DBYES
nd_dn    DBNO
```

**Attribute: feat_id**

**Fullname:** EDS constructed feature ID

**Attribute Description** A business and residential customer service (BRCS) constructed feature ID consists of two parts when class is equal to FACBRCS and subclass is equal to SCL_FEAT: a modular feature type (top six bits, bits 10 - 15) and an unique identifier (bottom ten bits, bits zero through nine). For an EDS constructed feature ID, the modular feature type must equal MFEDS, which is an enumeration of type DMMFTYPE. The unique identifier ranges from ranges from 1 to 1023 (0x1 to 0x3ff).

Range: 0x6001 to 0x63ff (24577 to 25599)

```
Dependencies:
     Verify that RLfacname has a tuple such that:
     RLfacname.facid = RLeds_opts.feat_id
     RLfacname.class = FACBRCS
     RLfacname.subclass = SCL_FEAT
Verify that RLfid2name has a tuple such that:
     RLfid2name.facid = RLeds_opts.feat_id
     RLfid2name.class = FACBRCS
     RLfid2name.subclass = SCL_FEAT
Verify that RLeds_cf has a tuple such that:
     RLeds_cf.feat_id = RLeds_opts.feat_id
```

**Attribute: edsgpname**

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**Fullname:** EDS group name
**Attribute Description** This attribute is the default parameter for EDS GROUP field in the recent change/verify (RC/V) line.

**Attribute: dqd**

**Fullname:** Directory query display (DQD)
**Attribute Description** Boolean value indicating whether DQD is allowed. The DQD option is assigned on a per primary DN basis. Station users with this option assigned to their primary DN should be able to invoke DQD.
Must be equal to DBNO unless 'servclass' equals FC_ISDN or FC_ISATND. Must be equal to DBNO unless 'ltm_type' equals LTM_ISDN. DN shared with analog line should be equal to DBNO. The DQD option is not assignable on a secondary only DN or a secondary only multi-line hunt group (MLHG).
The checks for this attribute have been implemented in RLeds_port.

**Attribute: nd_prim**

**Fullname:** Calling name display (CND) primary directory number (DN)
**Attribute Description** Boolean value indicating whether calling name display primary DN is allowed. If this option is DBYES for a DN, then it is allowed for a primary DN (lead port if there is no primary DN), secondary only DN, and a secondary only MLHG. These DNs will receive CND.
Must be equal to DBNO unless 'servclass' equals FC_ISDN or FC_ISATND. Must be equal to DBNO unless 'ltm_type' equals LTM_ISDN. DN shared with analog line should be equal to DBNO.

Dependencies:

| Enumeration Value | Dependency |
|---|---|
| DBNO | None |
| DBYES | If calling name display primary DN (nd_prim) is equal to DBYES, then shared DN (nd_dn) must be equal to DBNO. |

If this DN has a line ID (LID) constructed feature and the calling name display option (RLeds_opts.nd_prim equals DBYES) is selected, the RLlid_cf.cnd_prim equals DBYES and RLlid_cf.cnd_all equals DBNO. (The exception being, if RLlid_cf.cnd_prim equals DBNO, then RLlid_cf.cnd_all must be equal to DBNO.) The checks for this attribute have been implemented in RLeds_port.

**Attribute: nd_dn**

**Fullname:** Calling name display (CND) shared DN
**Attribute Description** Boolean value indicating whether CND shared DN is allowed. If this option is DBYES for a DN, then CND is available for all terminals which share this DN. This option is allowed to be DBYES for a secondary only DN and a secondary only MLHG.
Must be equal to DBNO unless 'servclass' equals FC_ISDN or FC_ISATND. Must be equal to DBNO unless 'ltm_type' equals LTM_ISDN. DN shared with analog line should be equal to DBNO.

Dependencies:

| Enumeration Value | Dependency |
|---|---|
| DBNO | None |
| DBYES | If calling name display shared DN (nd_dn) is equal to DBYES, then primary DN (nd_prim) must be equal to DBNO. |

If this DN has an LID constructed feature and the calling name display option (RLeds_opts.nd_dn equal to DBYES) is selected, then RLlid_cf.cnd_all is equal to DBYES and RLlid_cf.cnd_prim is equal to DBNO. (The exception being, if RLlid_cf.cnd_all equals DBNO, then RLlid_cf.cnd_prim must be equal to DBNO). The checks for this attribute have been implemented in RLeds_port.

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**Attribute: aucsu**

**Fullname:** Auto-call setup

**Attribute Description** Boolean value indicating whether auto-call set-up is allowed. auto-call option is provided on a per primary DN basis. It can be activated from any call appearance on a terminal which has the auto-call option assigned to the primary DN. The auto-call option is not allowed for a secondary only DN or a secondary only MLHG.

Must be equal to DBNO unless 'servclass' equals FC_ISDN or FC_ISATND. Must be equal to DBNO unless 'ltm_type' equals LTM_ISDN. DN shared with analog line should be equal to DBNO.

Dependencies:

| Enumeration Value | Dependency |
|---|---|
| DBNO | none |
| DBYES | When assigned to an MLHG member that is not the first member, verify that RLis_line(ltm_idx,lead_module).noc does not equal zero and that RLeds_opts.dqd equals DBNO. |

The checks for this attribute have been implemented in RLeds_port.

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# EDS_PORT

## 1. Description

Electronic directory service line parameter. This is a 2-byte tuple relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 262144 |
| expected tuples in relation | 160 |
| density | 18 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
EDS_PORT    relid = 880   DBSTATIC   DBACC_CIND  DBPRAM    LPFPFG  RCMAP
     lead_module  DMMODULE     (ushort: 8)     <--- key, not stored
 (a) ltm_type     DMLTM_TYPE   (enum: 1)     <--- key, not stored
     ltm_idx      DMLTM_IDX    (ulong: 16)     <--- key, not stored
     eds_grpid    DMMDSGRPN    (ushort: 10)
 (b) ffcf1        DMBOOL       (enum: 1)
 (c) ffcf2        DMBOOL       (enum: 1)
     ffcf3        DMUNS8       (ushort: 8)
         User and Compacted Tuple Layout   EDS_PORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               | |                               |               |
  0 |  lead_module  |a|            ltm_idx            |*************|
    |---------------+---------------+---------------+---------------|
    |                   | | |       |               |               |
  4 |     eds_grpid     |b|c|*******|     ffcf3     |***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     eds_grpid    DMMDSGRPN    (ushort: 10)
 (a) ffcf1        DMBOOL       (enum: 1)
 (b) ffcf2        DMBOOL       (enum: 1)
     ffcf3        DMUNS8       (ushort: 8)
           Stored Tuple Layout     EDS_PORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   | | |       |               |               |
  0 |     eds_grpid     |a|b|*******|     ffcf3     |***************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLeds_port

**Relation Description** Electronic directory service (EDS) line parameter.

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For BFG purposes, this 'EDS' is an 'either' type. Therefore, BFG pseudo port tuple will be created for the SM where any BFG port members reside. Individual port tuples may or may not be created for BFG assigned ports.

BFG, capability G268, is intended to improve recent change response time and provide for SM memory reduction. It permits the creation of groups of BRCS features and parameters, and utilization of these groups by call processing. New group parameter relations will not be created, but will be populated in the existing relations. The group parameters will be identified by lead_module = zero and ltm_type = LTM_ISDN (see lead_module and ltm_type for details).
This relation has now two types of tuples distinguished primarily by ltm_type.
1. The first type is the existing RLeds_port tuples which are group partitioned and remain unchanged (ltm_type = LTM_ISDN or LTM_OTHER).

2. The second type is the BFG group parameter tuple and is also group partitioned. This tuple is accessed by keys lead_module(equal to zero), ltm_index and ltm_type = LTM_ISDN. The BFG group parameter tuples were put in this relation to avoid creation of a new relation and minimize changes in the existing relation.

**Attribute: lead_module**

**Fullname:** lead module
**Attribute Description** Range value 0 allowed only for ltm_type = LTM_ISDN.

**Attribute: ltm_type**

**Fullname:** logical termination index type
**Attribute Description** If RLeds_port.lead_module equal to zero and ltm_type is equal to LTM_ISDN, then the tuple in the relation refers to BRCS feature grouping (BFG) group parameter tuples. See special entry for group parameter associated with BFG.

**Attribute: ltm_idx**

**Fullname:** logical termination index
**Attribute Description** If lead_module is zero and ltm_type is LTM_ISDN the ltm_idx range starts with 256. Otherwise, the ltm_idx range starts with 1.

```
Dependencies:
If RLeds_port.ltm_type is equal to LTM_ISDN then a
tuple must exist in the RLis_line relation such that:
Rlis_line(lead_module, ltm_idx).lead_module =
RLeds_port.lead_module and
RLis_line(lead_module, ltm_idx).ltm_idx =
Rleds_port.ltm_idx.
If RLeds_port.lead_module is zero and RLeds_port.ltm_type
is equal to LTM_ISDN then:
a tuple must exist in RLis_line relation such
that:
       if RLrc_lcc.servclass = FC_ISDN (or FC_ISATND),
       RLeds_port.ltm_idx = RLis_line.bfgid
       if RLrc_lcc.servclass = FC_INDVDL, then
       RLeds_port.ltm_idx = RLfc_line.bfgid
```

**Attribute: eds_grpid**

**Fullname:** EDS group ID
**Attribute Description** EDS group ID ( 10 bits: bits 0-9), is an identifier resulting from the conversion from an 8 character EDS group name using RLfacname. The eds_grpid is arranged sequentially starting at 1. When an eds_grpid is freed-up, that position will be re-claimed before adding one more to the end of the list. Refer to RLfacids.P for reclaiming policy.

```
Dependencies:
Verify that there exists an RLeds_grp tuple such that
   RLeds_port.eds_grpid = RLeds_grp.eds_grpid
```

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```
Verify that RLfacname has a tuple such that:
   RLfacname.facid = RLeds_port.eds_grpid
   (compare RLfacname.facid low order bits (bits 0-9)
   against eds_grpid)
   RLfacname.class = FACEDS
   RLfacname.subclass = SCL_NULL
Verify that RLfid2name has a tuple such that:
   RLfid2name.facid = RLeds_port.eds_grpid
   (compare RLfid2name.facid low order bits (bits 0-9)
   against eds_grpid)
   RLfid2name.class = FACEDS
   RLfid2name.subclass = SCL_NULL
```

**Attribute: ffcf1**

**Fullname:** bit reserved for future field feature use
**Attribute Description** Not assigned yet.

**Attribute: ffcf2**

**Fullname:** bit reserved for future field feature use
**Attribute Description** Not assigned yet.

**Attribute: ffcf3**

**Fullname:** unsigned 8 reserved for future field feature use
**Attribute Description** Not assigned yet.

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# EDSLDCHN

## 1. Description

Associates EDSL B channels and B channel port names with the controlling EDSL D channel.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| expected tuples in relation | 4 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
EDSLDCHN    relid = 806   DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL
     dport       DMPORT       (ushort)     <--- key
     dchan_no    DMUNS5       (ushort: 5)
     dp_addr1    DMPORT       (ushort)
     bc_bmap1    DMBMAP       (ulong: 24)
     bport0      DMPORT       (ushort)
     bport1      DMPORT       (ushort)
     bport2      DMPORT       (ushort)
     bport3      DMPORT       (ushort)
     bport4      DMPORT       (ushort)
     bport5      DMPORT       (ushort)
     bport6      DMPORT       (ushort)
     bport7      DMPORT       (ushort)
     bport8      DMPORT       (ushort)
     bport9      DMPORT       (ushort)
     bport10     DMPORT       (ushort)
     bport11     DMPORT       (ushort)
     bport12     DMPORT       (ushort)
     bport13     DMPORT       (ushort)
     bport14     DMPORT       (ushort)
     bport15     DMPORT       (ushort)
     bport16     DMPORT       (ushort)
     bport17     DMPORT       (ushort)
     bport18     DMPORT       (ushort)
     bport19     DMPORT       (ushort)
     bport20     DMPORT       (ushort)
     bport21     DMPORT       (ushort)
     bport22     DMPORT       (ushort)
         User, Compacted and Stored Tuple Layout   EDSLDCHN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |         |                     |
  0 |              dport             | dchan_no|*********************|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  4 |            dp_addr1            |*******************************|
```

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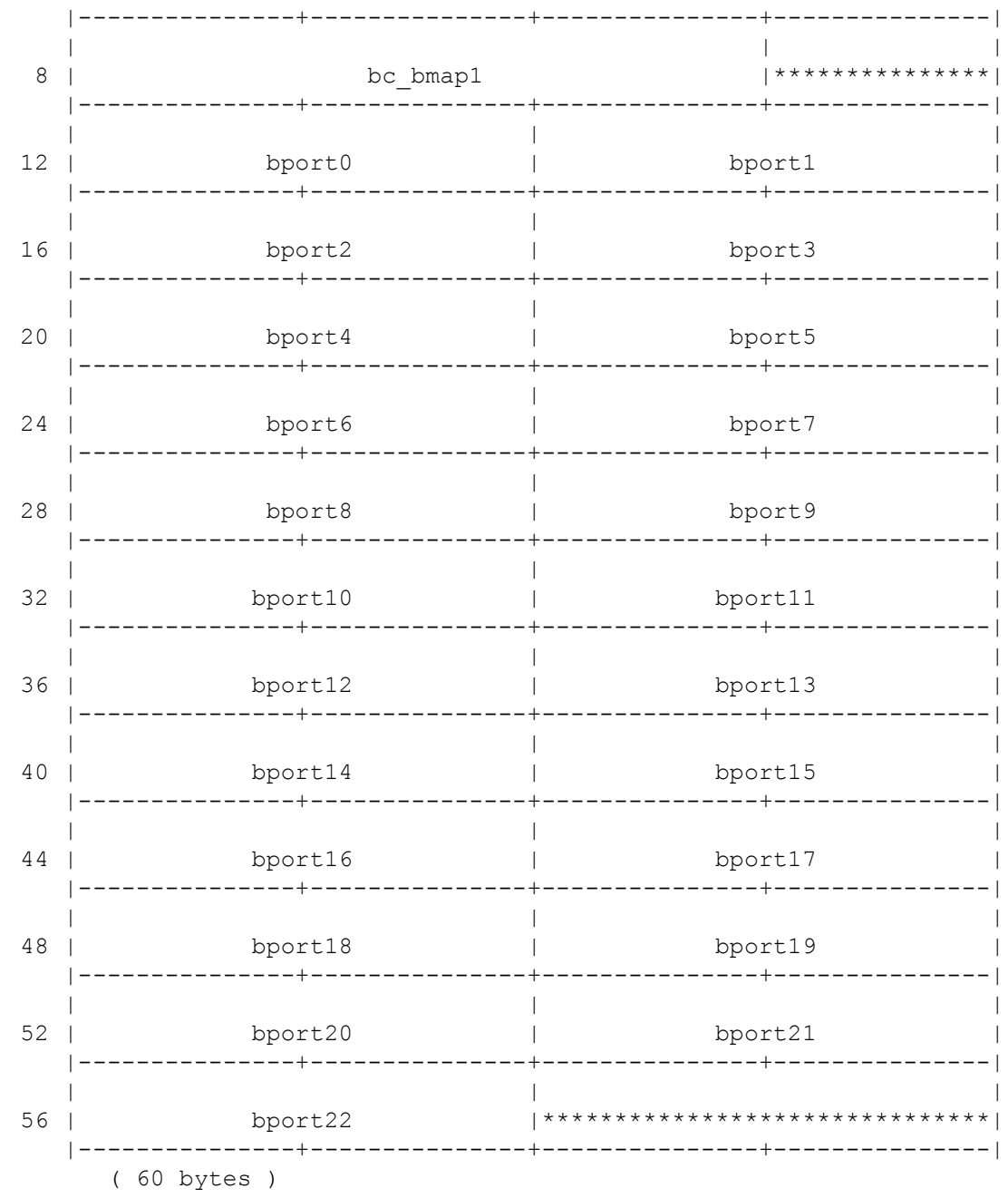


```
domain alEDSLDC   struct  (5 sub-attributes)
         dport       unsigned short (ushort)
         dchan_no    .2.fake       (ushort: 5)
         dp_addr1    unsigned short (ushort)
          bc_bmap1     .3.fake      (ulong)
          bport       .4.fake      (array [ 23 ] of  unsigned short

         Structure Layout      alEDSLDC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |-------------+-------------+-------------+-------------|
    |                           |         |                 |
```

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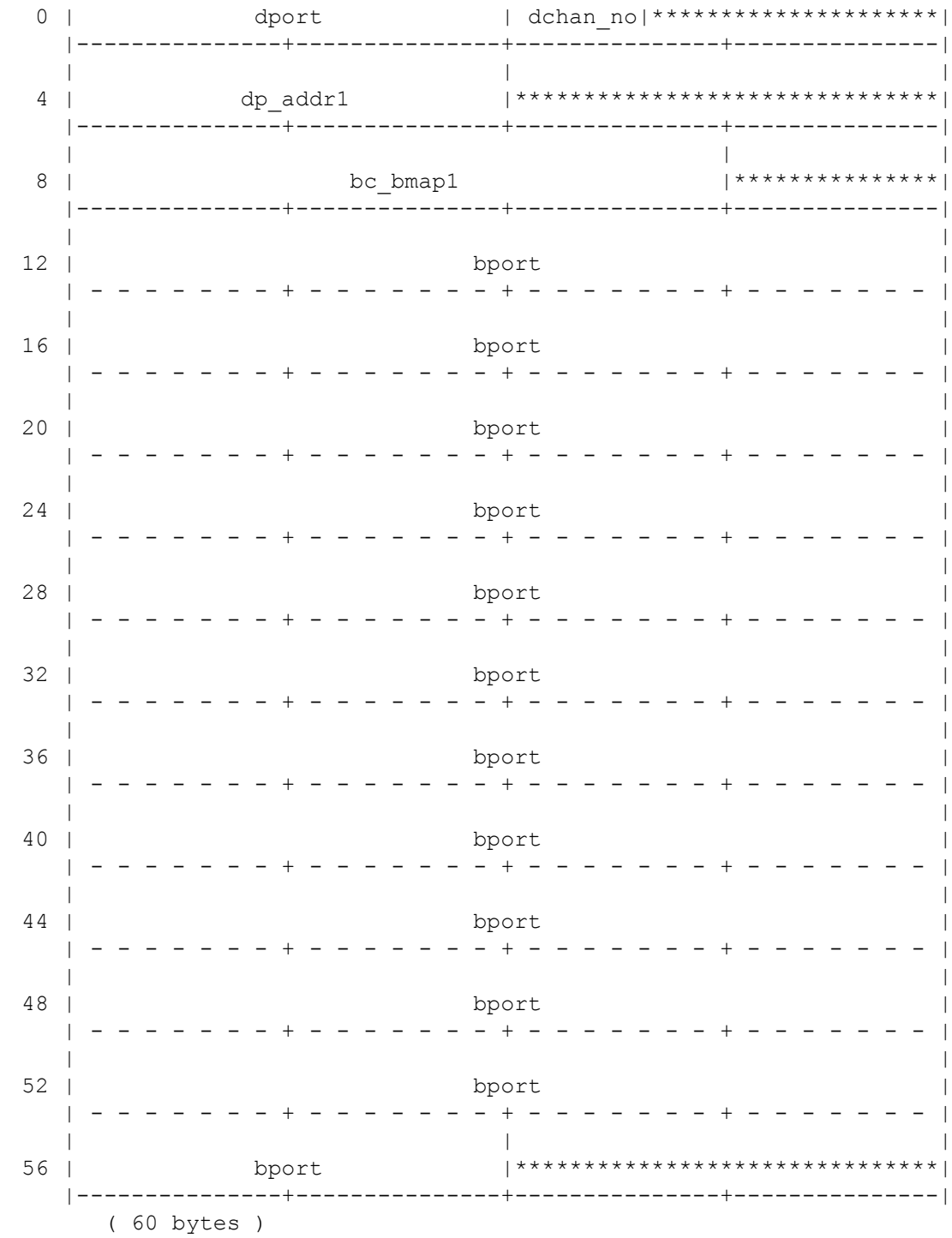


## 4. Population Rules for RLedsIdchn

**Relation Description** OSPS Extended Digital Subscriber Line D channels
This relation is populated with extended digital subscriber line (EDSL) D channels. It identifies the D channel number and all EDSL B channels controlled by the D channel. One tuple is populated for each assigned OSPS EDSL D channel only. or OSPS-EDSL D channel.

**Attribute: dport**

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**Fullname:** D channel port name

**Attribute Description** Populate with EDSL D channel port name. For OSPS-EDSL, D-channels are populated in RLfc_porttyp with servclass = OA_IFOPER or OA_IFTERM and lp_type = PCTDCHAN.

Note: A DLTU DFI terminates one T1 facility and a DLTU2 DFI terminates two T1 facilities. The Digital Channel field of the Digital Equipment Number (DEN) contains channel numbers from 1 to 48.

When mapping from channel DENs to port names, channels from 1 to 24 are mapped into the range 0 to 23. Channels from 25 to 48 are also mapped into the range 0 to 23.

The D-channel port is on channel 23.

**Attribute: dchan_no**

**Fullname:** Channel number of the D channel

**Attribute Description** This attribute is the channel number of the D channel. For domestic, the current value for the D channel is 23.

**Attribute: dp_addr1**

**Fullname:** B channels port names

**Attribute Description** This attribute will not be used after Port and Circuit Renaming takes effect. It is left in now to ease the transition.

**Attribute: bc_bmap1**

**Fullname:** B channels bit map

**Attribute Description** This attribute will not be used after Port and Circuit Renaming takes effect. It is left in now to ease the transition.

**Attribute: bport0**

**Fullname:** B channel port 0

**Attribute Description** This attribute is for B channel port 0. It is supervised by the D channel.

In the circuit indexing scheme for a DLTU terminating T1 trunks, bits 0-4 of the index represent the channel, bit 5 represents the DFI and bits 8-15 represent the DFI pack number. Bits 0-4 may contain a number between 0 and 23 with 0-22 being reserved for B channel ports and 23 reserved for the D channel port. Bit 5 is 0 if one T1 trunk is terminated (DLTU) and 1 if two T1 trunks are terminated (DLTU2).

This B port must be on the same DFI as its supervising D port. It must have a channel index that corresponds to its port number (such as 0 for B port 0). This holds true regardless of whether the DLTU is terminating 1 or 2 T1 trunks.

OSPS B channels are assigned in RLfc_porttyp with servclass = OA_IFOPER or OA_IFTERM and lp_type = PCTBCHAN. When a B channel is assigned in RLfc_porttyp, this attribute must be updated. OSPS-EDSL D channels must be assigned before their associated B-channels.

See the CHECK section for the rules relating to this attribute.

**Attribute: bport1**

**Fullname:** B channel port 1

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**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Attribute: bport2**

**Fullname:** B channel port 2

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Attribute: bport3**

**Fullname:** B channel port 3

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Attribute: bport4**

**Fullname:** B channel port 4

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Attribute: bport5**

**Fullname:** B channel port 5

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Attribute: bport6**

**Fullname:** B channel port 6

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Attribute: bport7**

**Fullname:** B channel port 7

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Attribute: bport8**

**Fullname:** B channel port 8

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Attribute: bport9**

**Fullname:** B channel port 9

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Attribute: bport10**

**Fullname:** B channel port 10

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

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**Attribute: bport11**

**Fullname:** B channel port 11

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Attribute: bport12**

**Fullname:** B channel port 12

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Attribute: bport13**

**Fullname:** B channel port 13

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Attribute: bport14**

**Fullname:** B channel port 14

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Attribute: bport15**

**Fullname:** B channel port 15

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Attribute: bport16**

**Fullname:** B channel port 16

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Attribute: bport17**

**Fullname:** B channel port 17

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Attribute: bport18**

**Fullname:** B channel port 18

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Attribute: bport19**

**Fullname:** B channel port 19

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Attribute: bport20**

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**Fullname:** B channel port 20

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Attribute: bport21**

**Fullname:** B channel port 21

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Attribute: bport22**

**Fullname:** B channel port 22

**Attribute Description** See the usage information for B channel port 0 for further details and the CHECK section for the rules relating to this attribute.

**Defines:** "db/DMport.h"

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# EDSLGPRT

## 1. Description

This relation associates an MCRI with a trunk group and call by call service type.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1200 |
| expected tuples in relation | 62 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |

## 3. Field Layout

```
EDSLGPRT    relid = 826   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    GCRTG


     mcri        DMRTEIDX     (ushort: 14)
     grpnum      DMGRUPNM     (ushort: 13)      <--- key
     eprtidx2    DMEPRTE2     (ushort: 10)      <--- key
         User, Compacted and Stored Tuple Layout   EDSLGPRT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                             |   |                           |     |
  0 |             mcri            |***|          grpnum           |*****|
    |---------------+---------------+---------------+---------------|
    |                     |                                         |
  4 |      eprtidx2       |*****************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLedslgprt

### Relation Description

```
        associates call by call information with trunk group.

        Associates an mcri with a trunk group and call by call
        service type.


       "This relation along with RLedsltrkg and RLnsfmap provide
        data for the EDSL call by call service selection feature
        (See population rules for RLedsltrkg and RLnsfmap).

        Also relation RLrcnsfmap is created for RC administration of
        RLnsfmap.eprtidx2 (See RLrcnsfmap population rules).

        RLedslgprt associates a Simulated Facilities Group (SFG)
        via an MCRI to a trunk group for each call by call service
        provided to the trunk group (Note that the same WATS band
```

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service provided by 2 different carriers would be 2 services
as would OPOTS service provided by 2 different carriers).

A tuple must exist in this relation for each service that
will be used by the trunk group - that is, for each combination
of NSFTYPE, band, carrier ID (including null carrier). This
is potentially one for each carrier in the office for each
originating NSFTYPE assigned to the trunk group. A call
request from the trunk group without the associated service
assigned will result in a switch personnel assert on the
ROP and a failed call. Ideally, entries for all possible
carriers for an NSFTYPE assigned to a trunk group should
be made. However, in reality, this could consume many
unnecessary memory resources.

Two keys are provided for this relation. One is the eprtidx2
index provided from RLnsfmap representing the call by call
service. The other is the trunk group number. The data
associated with each call by call service for each trunk
group is an MCRI which through the RLrt_mcrt relation has a
n associated SFG. The SFG must be assinged in RLrt_sfg.

RLedslgprt is group-partitioned with group type = GPDEDSL."

**Attribute:**
eprtidx2
**Fullname:**
EDSL pre-routing index.
**Attribute Description:**
This attribute is the EDSL pre-routing
index for the call by call service.
The assignment of index eprtidx2 is in RLnsfmap
and is RC/ODA administered. RLrcnsfmap is
for RC administration of RLnsfmap and is a
'mirror' of RLnsfmap. The RLfacids
relation is used to keep track of assigned/
unassigned values. RLfacids.class = FACEDSL
for eprtidx2 (See RLfacids population rules).

A tuple must exist in RLrcnsfmap where
RLrcnsfmap.eprtidx2 = RLedslgprt.eprtidx2 and a
tuple must exist in RLrt_trkg where RLrt_trkg.grpnum =
RLedslgprt.grpnum. If RLrcnsfmap.nsftype = FC_OPOTS,
FC_HM, FC_SCOCS),
FC_OWBAND, FC_MAXOWATS, FC_OFX, or FC_OTIE
then RLrt_trkg.type = RTTWOWAY or RTINCOM.
If RLrcnsfmap.nsftype = FC_TPOTS, FC_TFX, FC_TTIE
then RLrt_trkg.type = RTTWOWAY or RTOUTGO.
If RLrcnsfmap.nsftype = FC_HM or FC_SCOCS,
RLrcnsfmap.bearcap
and RLrctgrprk.datarate must be compatible.

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**Attribute:**
grpnum
**Fullname:**
Group number.
**Attribute Description:**
This attribute is the trunk group number.
It is populated for each EDSL B channel trunk
group that has call by call service(s) assigned.
Each eprtidx2 value (2nd key) represents a call
by call service. A tuple exists for each grpnum,
eprtidx2 combination so that a given grpnum may have
more than one tuple. If the grpnum does not have
call by call services, no tuple exists for the grpnum.

A tuple must exist in RLedsltrkg such that
RLedslgprt.grpnum = RLedsltrkg.grpnum.

**Attribute:**
mcri
**Fullname:**
Route index with associated SFG.
**Attribute Description:**
This attribute is the MCRI assigned
for the trunk group and call by call
service. It is not required that an MCRI
be used in only one RLedslgprt tuple (such as,
two trunk groups requiring the same billing,
screening, and number of SFG members information
could use the same MCRI).

Verify existence of tuple in
RLrt_mcrt for RLrt_mcrt.mc_ri =
RLedslgprt.mcri with RLrt_mcrt.route_type=
RTE_SFG or RTE_REORDER.

Verify that RLrcnsfmap.carrid from the
RLrcnsfmap.eprtidx2 tuple =
RLrt_mcrt.carr_id if RLrt_mcrt.route_type
= RTE_SFG.
This is only required when the RLrcnsfmap.carrid
is not equal to NULL_BCARID.

Verify that RLrt_mcrt.grpnum = 0 for
RLrt_mcrt.mc_ri tuple where mc_ri =
RLedslgprt.mcri.

If RLrt_mcrt.route_type = RTE_SFG,
verify existence of tuple in RLrt_sfg
where RLrt_mcrt.sfg_grp = RLrt_sfg.grpnum.
Verify consistency of RLrt_sfg.sfg_type
and RLrcnsfmap.nsftype. For nsftype =
FC_OPOTS or FC_TPOTS, sfg_type = SFGEDSL.

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```
For nsftype = FC_OWBAND or FC_MAXOWATS,
sfg_type = SFGOUTWATS. For nsftype =
FC_SDN, sfg_type = SFGSDN. For nsftype =
FC_M800, sfg_type = SFGM800.
For nsftype = FC_HM, sfg_type = SFGHM.
For nsftype = FC_SCOCS, sfg_type = SFGSCOCS.
For nsftype = FC_OFX, sfg_type = SFGOUTFX or SFG2WFX.
For nsftype = FC_TFX, sfg_type = SFGINFX or SFG2WFX.
For nsftype = FC_OTIE, sfg_type = SFGOUTTIE or SFG2WTIE.
For nsftype = FC_TTIE, sfg_type = SFGINTIE or SFG2WTIE.
For nsftype = FC_MEGACOM, sfg_type = SFGMEGACOM.
For nsftype = FC_I800, sfg_type = SFGI800.
For nsftype = FC_MULTIQUEST, sfg_type = SFGMULTIQUEST.


Verify that RLrt_sfg.sfg_si != 0
in RLrt_sfg.grpnum tuple when
RLrcnsfmap.nsftype = FC_OPOTS,
SFGHM, SFGSCOCS,
FC_OWBAND, FC_MAXOWATS, FC_SDN, or FC_M800.
```

**Defines:**

```
"db/DMcarr_val.h"
```

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# EDSLTRKG

## 1. Description

This relation assigns EDSL features to trunk groups.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected tuples in relation | 3 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |
| density | 8 |
| trigger function | AMcnam_pri |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
EDSLTRKG    relid = 825   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    GCRTG


    bill_dn     DMBCD_BDN    (array [ 6 ] of char )
    carrid      DMBCARID     (ushort: 14)
(a) isdn_sid    DMISDN_SID   (enum: 1)
(b) uui         DMBOOL       (enum: 1)
    pic2        DMBCARID     (ushort: 14)
(c) npasrc      DMNPASRC     (enum: 2)
    plc         DMBCARID     (ushort: 14)
(d) d_cut_thru  DMCUT_THRU   (enum: 2)
    pic4        DMBCARID     (ushort: 14)
(e) v_cut_thru  DMCUT_THRU   (enum: 2)
    grpnum      DMGRUPNM     (ushort: 13)      <--- key
(f) ci_dial     DMCI_DIAL    (enum: 3)
    eds_grp     DMMDSGRPN    (ushort: 10)
(g) ded_serv    DMPRIDSERV   (enum: 4)
(h) codeset7    DMCODES7     (enum: 1)
(i) opots_sfg   DMBOOL       (enum: 1)
    ffcf5       DMUNS8       (ushort: 8)
    sdndas      DMDA_TREE    (ushort: 7)
(j) calbycal    DMBOOL       (enum: 1)
(k) cpnbnopt    DMCPNBNOPT   (enum: 3)
(l) tpots_sfg   DMBOOL       (enum: 1)
(m) m800_sfg    DMBOOL       (enum: 1)
(n) nds0unans   DMBOOL       (enum: 1)
(o) sdn_sfg     DMBOOL       (enum: 1)
(p) priv_over   DMBOOL       (enum: 1)
(q) cpn_disc    DMBOOL       (enum: 1)
(r) cpn_scrn    DMBOOL       (enum: 1)
(s) cpnbilling  DMBOOL       (enum: 1)
(t) dirconic    DMBOOL       (enum: 1)
(u) inhibit_tcm  DMBOOL       (enum: 1)
(v) e911_cpn    DMBOOL       (enum: 1)
```

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```
(w) hmtax        DMBOOL        (enum: 1)
(x) cnam_alw     DMBOOL        (enum: 1)
(y) cnam_ama     DMBILL_OPT    (enum: 1)
(z) pcn_alw      DMBOOL        (enum: 1)
(A) pcn_ama      DMBILL_OPT    (enum: 1)
(B) eds_cnd      DMBOOL        (enum: 1)
(C) std_rn_src   DMBOOL        (enum: 1)
(D) alw_data_only  DMBOOL        (enum: 1)
(E) b_chan_neg   DMBOOL        (enum: 1)
(F) custom_cbc   DMBOOL        (enum: 1)
(G) ffcf1        DMBOOL        (enum: 1)
(H) ffcf2        DMBOOL        (enum: 1)
(I) ffcf3        DMBOOL        (enum: 1)
(J) ffcf4        DMBOOL        (enum: 1)
(K) ffcf6        DMBOOL        (enum: 1)
(L) rn_disc      DMBOOL        (enum: 1)
(M) rn_scrn      DMBOOL        (enum: 1)
(N) rn_billing   DMBOOL        (enum: 1)
(O) unbundled    DMBOOL        (enum: 1)
    main_dn      DMDC15        (struct)
        dig5         DMBCD         (ushort: 4)
        dig1         DMBCD         (ushort: 4)
        dig6         DMBCD         (ushort: 4)
        dig2         DMBCD         (ushort: 4)
        dig7         DMBCD         (ushort: 4)
        dig3         DMBCD         (ushort: 4)
        dig8         DMBCD         (ushort: 4)
        dig4         DMBCD         (ushort: 4)
        dig13        DMBCD         (ushort: 4)
        dig9         DMBCD         (ushort: 4)
        dig14        DMBCD         (ushort: 4)
        dig10        DMBCD         (ushort: 4)
        dig15        DMBCD         (ushort: 4)
        dig11        DMBCD         (ushort: 4)
        digcnt       DMDIGCNT      (uchar: 4)
        dig12        DMBCD         (ushort: 4)
        User, Compacted and Stored Tuple Layout   EDSLTRKG
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                            bill_dn                            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                           | | |
 4 |            bill_dn            |           carrid          |a|b|
   |---------------+---------------+---------------+---------------|
   |                           |   |                           |   |
 8 |            pic2           | c |            plc            | d |
   |---------------+---------------+---------------+---------------|
   |                           |   |                       |     |
12 |            pic4           | e |          grpnum       |  f  |
   |---------------+---------------+---------------+---------------|
   |                   |       | | |               |           | |
16 |      eds_grp      |   g   |h|i|     ffcf5     |    sdndas |j|
```

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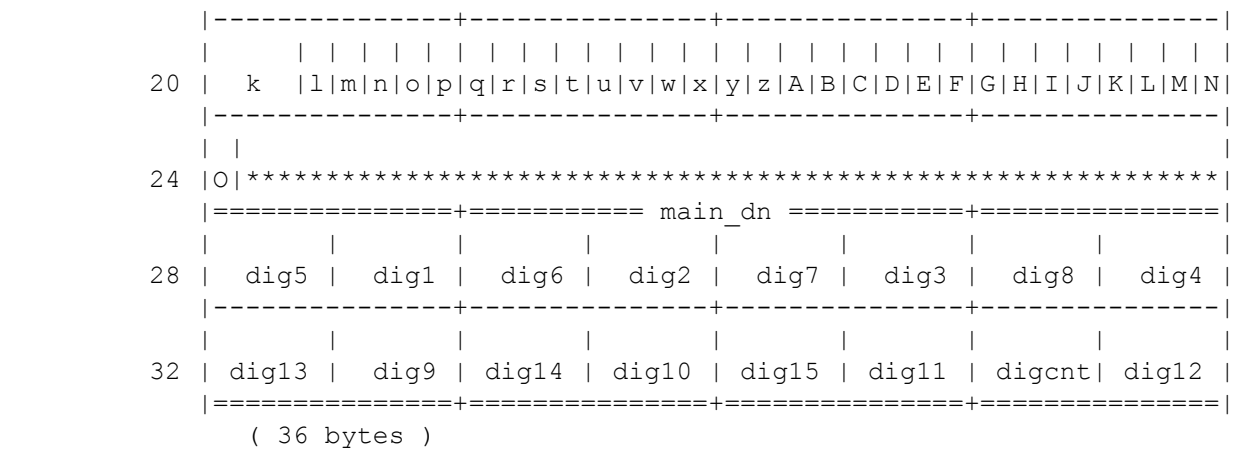


## 4. Population rules for RLedsltrkg

### Relation Description

Extended digital subscriber line (EDSL) trunk group.

Assigns EDSL features to trunk groups.

This relation RLedsltrkg is populated for EDSL B-channel trunk groups - trunk groups with members that have servclass = FCEDSL or FCEDSLHM and lp_type = PCTBCHAN in RLfc_porttyp (see RLfc_porttyp population rules for EDSL ports). EDSL trunk groups are also populated in RLrt_trkg.

RLedsltrkg is created along with relations RLedslgprt and RLnsfmap in order to provide EDSL features for trunk groups. Also, RLrcnsfmap is created to aid recent change (RC) administration of these relations (see population rules for RLedslgprt, RLnsfmap, RLrcnsfmap).

RLedsltrkg associates EDSL features with the trunk group. RLnsfmap associates an index (eprtidx2) with EDSL call by call services. RLedslgprt associates the call by call services with an EDSL trunk group. Note that if an EDSL trunk group does not have call by call services, a tuple exists for the group in RLedsltrkg but not in RLedslgprt.

RLrcnsfmap.nusers contains the number of users of an RLnsfmap.eprtidx2 value. The number of users is the number of trunk groups in the office associated with the eprtidx2 value. A trunk group is associated with an eprtidx2 value via the RLedslgprt relation (trunk group number and eprtidx2 are keys for RLedslgprt).

EDSL is an integrated services digital network (ISDN) capability which provides a private branch exchange (PBX) interface for customers using T1 carrier facilities (trunks) and Telecommunication Standardization Sector (ITU-TS) (formerly (CCITT) Q.931 message signaling. EDSL trunks can originate calls and receive 'line' screening and billing treatment. They can be terminated-to via a

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directory number (data-wise trunk group is linked to directory number [DN] via a route index in the DN translations), and the trunks are hunted via standard trunk hunting algorithms. They can also be terminated-to via digit analysis (data-wise trunk group is obtained from route index in the digit analysis tables) and hunted via standard trunk hunting algorithms. Note that if EDSL trunks are terminated-to via RLrtdnmod or digit analysis tables, no DN assigned features can be provided (such as, INWATS).

EDSL trunks may have an EDSL hotel/motel class of service to Traffic Services Position System (TSPS) (servclass = FCEDSLHM). Basic terminating service includes direct inward dialing (DID) functionality with the digits 'outpulsed' included in a Q.931 message. A presubscribed carrier ID and control interface (CI) dialing privileges are also provided.

Call by call service selection allows multiple services to be routed to an EDSL trunk group. On a per call basis, the service being used is indicated in the network specific facilities (NSF) element of a Q.931 message.

The following services are specified on a per call basis in a Q.931 message, but are not call by call services:

- Station ID (SID) to terminating end
- User to user information (UUI)
- Codeset 7
- Call by call service selection
- Data rates 56kb/s, 64kb/s restricted, 64kb/s clear.

Data service is assigned in RLfc_trunk.datarate.
(Datarate is provided on trunks by interswitch voice and data capability).

Outward wide area telephone service (OUTWATS) calls require wide area telephone service (WATS) screening and billing data different from plain old telephone service (POTS) calls. Trunk INWATS (TINWATS) calls require terminating billing data. Simulated facilities groups (SFGs) will be used to provide this screening and billing data. SFGs also provide a limiting function that controls the number of simultaneous calls allowed for each service (such as, it may be required that a given service be limited to a number of simultaneous calls that is less than the number of calls the trunk group can handle). See RLnsfmap and RLedslgprt population rules for additional call by call data assignments and RLrt_mctr for TINWATS modular communications route index (MCRI)/SFG assignments.

RLedsltrkg is group partitioned with group type = GPDEDSL."

**Attribute:**

grpnum

**Fullname:**

Group number

**Attribute Description:**

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This attribute is the trunk group number.
A tuple is populated for each assigned EDSL B
channel trunk group. A B-channel group has members
with RLfc_porttyp.servclass = FCEDSL or FCEDSLHM and
RLfc_porttyp.lp_type = PCTBCHAN. See RLrt_trkg
population rules for further D, B channel trunk
group definition.

Note that since this relation is not populated for
EDSL D-channel trunk groups, the attributes in this
relation are not valid for D-channel groups.

**Attribute:**
calbycal
**Fullname:**
Call by call
**Attribute Description:**
This attribute indicates whether or not this trunk group has
call by call capability. See the previous description of call
by call services.

RLedsltrkg.calbycal must = RLrt_trkg.calbycal. Note that calbycal
may be DBYES without having tuples in RLedslgprt for this grpnum
(This happens when trunk group is for TINWATS only or for both POTS
with no MCRI/SFG and TINWATS. A trunk group has TINWATS if a DN
routing to the trunk group has TINWATS - that is, for RLrt_dntran.dn,
RLrt_dntran.termclass = RTTC_TINWATS). Also note that RC cannot
guarantee consistency of the calbycal attribute with related data
(associated MCRI assignments in RLedslgprt and RLrt_mctr) since
the data is administered by different RC views and all data
necessary to guarantee consistency is not available on all views.

If an inconsistency exists (calbycal = DBYES without associated
MCRIs/SFGs, or MCRIs/SFGs with calbycal = DBNO), call processing
may issue a user assert or generate incorrect billing information
depending on the type of inconsistency.

This attribute also has dependency on RLfc_trunk.sdnded which
determines if this trunk is dedicated to software defined network
(SDN) service access. If RLfc_trunk.sdnded == DBYES, then calbycal
must be DBNO.

**Attribute:**
isdn_sid
**Fullname:**
SID treatment
**Attribute Description:**
This attribute indicates what SID treatment this group can have.
Valid treatments are FC_NOSID cannot receive SID. FC_TRANONLY
terminator will receive SID only if it was initially sent by the

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originator (that is, central office will transport SID if sent: it will not prompt originator or retrieve it from office data).

**Attribute:**
uui
**Fullname:**
User to user information
**Attribute Description:**
This attribute indicates if this group can send and receive UUI message elements.

**Attribute:**
codeset7
**Fullname:**
Code set 7 option
**Attribute Description:**
This attribute indicates what codeset7 option this group can have. Valid options are:

FC_NOCODE7 - codeset7 not allowed.
FC_CODE7 - allowed to send and receive codeset7, no interpretation by the central office.

**Attribute:**
carrid
**Fullname:**
Carrier ID
**Attribute Description:**
This attribute indicates the presubscribed carrier for this trunk group. It may be specified if RLrt_trkg.type = RTTWOWAY, RTINCOM, or RTOUTGO for this grpnum.

Allowable Range: 0-FGDMAXBCAR
A NULL carrier is defined as NULL_BCARID.
A non-existing or invalid carrier is defined as INVBCARID.

NOTE: A tuple must exist in RLfc_carr such that RLfc_carr.carrid = RLedsltrkg.carrid for all valid carrid values except NULL_BCARID.

Default: NULL_BCARID

**Attribute:**
ci_dial
**Fullname:**
Carrier dialing permission
**Attribute Description:**
This attribute specifies the carrier dialing permissions for this trunk group.

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```
CI_ALLOWED      - May dial feature group D carrier access
                  code (CAC).
CI_PROHIBITED   - Cannot dial feature group D CAC.
CI_REQUIRED     - Must dial feature group D CAC.
TEST_ALLOW      - May dial feature group D CAC to carrier
                  in thetest state.
TEST_PROHIB     - cannot dial feature group D CAC to carrier
                  in the test state.
TEST_REQ        - must dial feature group D CAC to carrier in
                  the test state.
```

**Attribute:**
opots_sfg
**Fullname:**
Orignating POTS SFG
**Attribute Description:**
This attribute indicates if an MCRI/SFG is to be used for originating call by call POTS calls.

If DBYES, a tuple exists in RLedslgprt keyed by this grpnum such that the nsftype is FC_OPOTS. That is, for the RLedslgprt.grpnum, RLedslgprt.eprtidx2 tuple, the tuple for RLrcnsfmap.eprtidx2 has RLrcnsfmap.nsftype = FC_OPOTS.

**Attribute:**
tpots_sfg
**Fullname:**
Terminating POTS SFG
**Attribute Description:**
This attribute indicates if an MCRI/SFG is to be used for terminating call by call POTS calls.

If DBYES, a tuple exists in RLedslgprt keyed by this grpnum such that the nsftype is FC_TPOTS. That is, for the RLedslgprt.grpnum, RLedslgprt.eprtidx2 tuple, the tuple for RLrcnsfmap.eprtidx2 has RLrcnsfmap.nsftype = FC_TPOTS.

**Attribute:**
m800_sfg
**Fullname:**
Megacom(R) 800 simulated facility group
**Attribute Description:**
Indicate if MCRI/SFG is used for incoming call by call Megacom(R) 800 calls. This attribute is set to DBYES when a tuple is inserted into RLnsfmap with nsftype = FC_M800 and when a tuple is inserted into RLedslgprt with RLnsfmap.eprtidx2 and RLedsltrkg.grpnum.

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**Attribute:**
nds0unans
**Fullname:**
N times DS0 unanswered call billing
**Attribute Description:**
Indicates whether to generate a billing record for wideband unanswered and unconnected calls on PRI.

**Attribute:**
sdn_sfg
**Fullname:**
Software defined network simulated facility group
**Attribute Description:**
Indicate if MCRI/SFG is used for incoming call by call SDN calls. This attribute is set to DBYES when a tuple is inserted into RLnsfmap with nsftype = FC_SDN and when a tuple is inserted into RLedslgprt with RLnsfmap.eprtidx2 and RLedsltrkg.grpnum.

**Attribute:**
bill_dn
**Fullname:**
Billing directory number
**Attribute Description:**
This attribute indicates the billing number for this trunk group. A billing number is required for EDSL B channel trunk groups with RLrt_trkg.type = RTINCOM or RTTWOWAY. If RLrt_trkg.type = RTOUTGO and the trunk group is to be used for TINWATS calls, a billing number is required. However, note that this outgoing case cannot be enforced by RC. Call processing will issue a user assert if it gets a TINWATS call to a group that does not have a billing number assigned. The billing number is a number of up to 10 digits (no. digits = (1 <= no. digits <= 10)). If the number of digits equals zero, then no billing number is present. The digits are stored in BCD, two per character (byte). The domain used for bill_dn has five characters for the ten digits plus one character for the number of digits (number of digits character is required by the I/O type). If the number of digits is less than ten, the null character (which becomes same as digit zero in BCD) is used to fill the remaining digits. The number of digits character always contains the number of digits. If no billing number is present for the trunk group, the digits will be set to null and the number of digits to zero. The digits are stored in the attribute starting with D1.

This attribute has a dependency on RLfc_trunk.sdnded which determines if this trunk is dedicated to SDN service access. If RLfc_trunk.sdnded == DBYES, then bill_dn.digcnt must be 10. Note: There is no dependency if RLedsltrkg.ded_serv is DED_SDN.

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Layout follows:

| byte 0 | byte 1 | byte 2 | byte 3 | byte 4 | byte 5 |
|---|---|---|---|---|---|
| D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | D9 | D10 | no. dig. |

Also see RLfc_trunk.ln_type for Leased Network rules for bill_dn.

**Attribute:**

cpnbnopt

**Fullname:**

Calling party number (CPN)/billing number (BN) option.

**Attribute Description:**

CPN/BN options subscribed to by primary rate interfaces (PRIs) for outgoing calls. This option specifies whether CPN or BN should be delivered for circuit switched voice and circuit switched data calls. This option is assigned at the near switch and depends on the number (CPN or BN) that the far switch wishes to receive. The available options are CPNBN_NONE, CPN_ONLY, CPN_PREF, BN_ONLY, BN_PREF, and CPN_UP.

CPNBN_NONE - Neither CPN nor BN will be sent on out going calls. This is the default.

CPN_ONLY - Only CPN will be sent. If it is not available, no number will be sent.

CPN_PREF - CPN will be sent if available. If it is not available, the BN will be sent if it is available.

BN_ONLY - Only BN will be sent. If it is not available, no number will be sent.

BN_PREF - BN will be sent if available. If it is not available, the CPN will be sent if it is available.

CPN_UP - Only CPN will be sent if available, and the screening indicator in the calling party information element set to user provided, not screened. This option should be used on PRIs where the near office is a PBX and the far office is a public switch (central office or toll office).

The following diagram shows how the cpnbnopt should be set in the near office for different configurations interconnected via PRIs. It should be noted that these population rules cannot be enforced by

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RC. For customers in the far office to receive the expected number (CPN or BN) this attribute should be set in the near office as specified in the following diagram.

| near office | far office | cpnbnopt (select one) |
|---|---|---|
| public switch | public switch | CPNBN_NONE, CPN_ONLY, CPN_PREF BN_ONLY, BN_PREF |
| public switch | private switch | CPNBN_NONE, CPN_ONLY, CPN_PREF BN_ONLY, BN_PREF |
| private switch | public switch | CPNBN_NONE, CPN_UP |
| private switch | private switch | CPNBN_NONE, CPN_ONLY, CPN_PREF BN_ONLY, BN_PREF |

In a private network (PBX to PBX) the BN_ONLY option should not be assigned to PRIs connecting the private switches for customers that want to receive the calling party number from both callers within the private network and callers outside the private network.

**Attribute:**
priv_over
**Fullname:**
Privacy override
**Attribute Description:**
This attribute indicates whether private directory numbers may be sent over a PRI when the outgoing trunk has a CPN/BN option assigned to it (RLedsltrkg.cpnbnopt). Private directory numbers should not be sent from a public switch (central office or toll office) to a private network switch (PBX) except in special cases where the PBX has agreed not to sent the number to the terminator. To block private numbers from being sent over a PRI, set priv_over to DBNO. To allow private numbers to be sent over a PRI, set priv_over to DBYES. This option should only be assigned to outgoing or two-way trunk groups (RLrt_trkg.type must be RTOUTGO or RTTWOWAY).

**Attribute:**
main_dn
**Fullname:**
Main directory number
**Attribute Description:**
This attribute contains a default directory number that should be used when a user-provided CPN is discarded or when the user does not provide a CPN on circuit switched voice and circuit switched data calls. This attribute contains a 10-digit directory number of the form NPANXXXXXX. This number is stored in BCD and has a digit count indicating the number of digits stored. The digits are stored in order with the first digit (leftmost) of the number stored in digit 1 in the data structure. This attribute allows

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for 15 digits to be stored but only 10 are used currently. The unused digit positions must be populated with BCD `0's. If a directory number is not specified, then this attribute must be populated with all `0's and the digit count subattribute, RLedsltrkg.main_dn.digcnt, must be set to zero. The main_dn attribute should normally only be populated when the far office is a PBX and the near office is a public switch (central office or toll office). The directory number populated should be the main directory number of the PBX or some other number which can be called. This option should only be assigned to incoming or two-way trunk groups (RLrt_trkg.type must be RTINCOM or RTTWOWAY).

**Attribute:**
main_dn.dig[*]
**Fullname:**
Digit
**Attribute Description:**
Identifies digit 'nth' of main DN.

**Attribute:**
main_dn.digcnt
**Fullname:**
Digit count
**Attribute Description:**
Contains the count of digits in this DN.

**Attribute:**
npasrc
**Fullname:**
NPA source indicator
**Attribute Description:**
The NPA source indicator is used on PRI trunk originations when the Calling Party Number (CPN) is 7-digits and the NXX of the CPN is non-unique. The attribute indicates the source of the CPN NPA to the PRI trunk originating software. The available options are:

```
FC_NO_NPASRC    - no NPA source
FC_BASENPA      - use RLnoccode.npa, RLnoccode.basenpa must be DBYES,
FC_FENPA        - use RLrt_trkg.fenpa,
FC_CPN10DIGITS  - the CPN on the incoming PRI trunk must always
                  be 10-digits.
```

The default value of npasrc is FC_NO_NPASRC.

Dependencies: If npasrc is set to FC_FENPA, then RLrt_trkg.fenpa must be set to the NPA of the calling party switch.

**Attribute:**
cpn_disc
**Fullname:**

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Calling party number discard indicator

**Attribute Description:**

This attribute indicates if a user-provided CPN should be discarded and replaced with a network provided CPN on originations over the PRI for circuit switched voice and circuit switched data calls. This attribute is used when a user-provided CPN is screened and fails or when a user-provided CPN is not screened. If cpn_disc is set to DBNO, then the user-provided CPN is not discarded and is used as the CPN. If cpn_disc is set to DBYES, then a user-provided CPN will be discarded if it fails screening or if it is not screened. When the user-provided CPN is discarded, it should be replaced with a network provided number if available. The network provided number must be specified in the attribute main_dn.

User-provided CPNs on calls from private switches (PBX) to public switches may or may not be screened. The user-provided CPN should be discarded if it fails screening or is not screened. If the CPN is discarded, it will be replaced by a switch provided CPN if one is available.

User-provided CPNs on calls to private switches from a public switch or another private switch should not be screened and the CPN should not be discarded.

User-provided CPNs on calls to public switches from another public switch should not be screened and the CPN should not be discarded.

This option should only be assigned to incoming or two-way trunk groups (RLrt_trkg.type must be RTINCOM or RTTWOWAY).

The following diagram shows how the cpn_disc and cpn_scrn attributes should be set in the near office for different configurations interconnected via PRIs. In this diagram it is assumed that the call originates in the far office. It should be noted that these population rules cannot be enforced by RC.

| near office | far office | cpn_scrn | cpn_disc |
|---|---|---|---|
| public switch | private switch | DBYES | DBYES |
| public switch | private switch | DBNO | DBYES |
| private switch | public switch | DBNO | DBNO |
| private switch | private switch | DBNO | DBNO |
| public switch | public switch | DBNO | DBNO |

**Attribute:**

cpn_scrn

**Fullname:**

Calling party number screening

**Attribute Description:**

This attribute indicates whether a user-provided CPN should be screened against a range(s) of numbers associated with the PRI on originations over the PRI for circuit switched voice and circuit

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switched data calls. When a CPN is received in the SETUP message on originations over a PRI, this indicator specifies whether it should be screened or not. Screening is done to determine if a user-provided CPN is valid for the PRI over which it is received. CPNs received in a public switch (central office or toll office) from a private switch (PBX) may or may not be screened. If screening is done, the CPN received from a PBX would be screened against ranges of DNs that are to be screened for that PBX. These ranges of DNs are specified in relation RLsc_range. RLrt_trkg.pbx_id for each trunk group connected to the PBX must be set to a non-zero value. Each trunk group member must have RLfc_trunk.pbx_id set to the same value as RLrt_trkg.pbx_id. At least 1 tuple must exist in RLsc_range with RLsc_range.pbx_id = RLrt_trkg.pbx_id.

CPNs received in a private switch should not be screened since they may have already been screened by a public switch and since the received CPN could have come from any place in the public network. CPNs received in a public switch from another public switch should not be screened for the same reasons. This indicator should be set to DBYES to allow screening and to DBNO to prevent screening.

This option should only be assigned to incoming or two-way trunk groups (RLrt_trkg.type must be RTINCOM or RTTWOWAY).

See interaction with attribute cpn_disc.

**Attribute:**
cpnbilling
**Fullname:**
Calling party number (CPN) billing indicator.
**Attribute Description:**
The CPN BILLING attribute indicates whether the user-provided CPN sent over an incoming primary rate interface (PRI) should replace the PRI trunk billing DN. To allow CPN substitution of the trunk billing DN, set cpnbilling to DBYES. To prevent CPN substitution, set cpnbilling to DBNO. This option can only be assigned to incoming or two-way trunks that have a class of service or EDSL or EDSLHM.
In 5e9(1) and 5e9(2), the spare resource attribute ffcf1 provided this functionality.

**Attribute:**
dirconic
**Fullname:**
Direct Connect to an Inter Exchange Carrier.
**Attribute Description:**
The attribute indicates whether or not the EDSL or EDSLHM PRI is directly connected to an Inter Exchange Carrier. This attribute can only be set to DBYES when the secured feature ICLATA has been purchased (SFID 149 is active), or when the secured feature Alternate Local Service Provider

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has been purchased (SFID 269 is active).
In 5e9(1) and 5e9(2), the spare resource attribute ffcf2
provided this functionality.

**Attribute:**
d_cut_thru
**Fullname:**
Data cut through
**Attribute Description:**
Identifies the cut through procedure to used for circuit switched data (CSD) calls.

NORMAL_CUT - The path is cut in the backward direction upon receipt of an alerting or progress message. The path is cut in both directions upon receipt of the connect message.

EARLY_CUT - The path is cut in both directions upon receipt of a call proceeding, alerting or progress message.

DELAY_CUT - The path is not cut in either direction until receipt of a connect message.

NOTE: This attribute should be set to the default value ( NORMAL_CUT) if RLrctgrprk.datarate equals DBDATA_NULL.

**Attribute:**
v_cut_thru
**Fullname:**
Voice cut through
**Attribute Description:**
Identifies the cut through procedure to used for circuit switched voice (CSV) calls.

NORMAL_CUT - The path is cut in the backward direction upon receipt of an alerting or progress message. The path is cut in both directions upon receipt of the connect message.

EARLY_CUT - The path is cut in both directions upon receipt of a call proceeding, alerting or progress message.

NOTE: There is currently no delay cut through option for CSV calls.

**Attribute:**
ded_serv
**Fullname:**
Dedicated services
**Attribute Description:**
This attribute indicates the assigned dedicated service.

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Allowed values are:

```
DED_NULL   - Used if trunk group is not dedicated, or if
             dedicated and service enumeration is not defined
             (such as, POTS or long distance service).
DED_I800   - Dedicated to international 800 service.
DED_ILDS   - Dedicated to international long
             distance service.
DED_INWATS - Dedicated to INWATS.
DED_OUTWATS - Dedicated to OUTWATS.
DED_M800    - Dedicated to MEGACOM(R) 800.
DED_MEGACOM - Dedicated to MEGACOM(R).
DED_NOVA    - Dedicated to dial-it-nova.
DED_SDN     - Dedicated to software define network for non-ACP.
DED_SDS     - Dedicated to switched digital service.
```

If ded_serv is not DED_NULL, then the calbycal attribute must be DBNO. It is valid for this attribute to be DED_NULL and calbycal attribute equal to DBNO.

If this attribute (ded_serv) is not DED_NULL then RLrctgrprk.sdnded must be DBNO. RLfc_trunk.sdnded is populated from RLrctgrprk.sdnded.

Electronic tandem network (ETN) or SDN traffic can be routed over dedicated PRI facilities if the call originated from an ETS node. This is because ETS requires the Q.931 NSF IE to be transmitted for call-by-call or dedicated channels.

**Attribute:**

sdndas

**Fullname:**

Software defined network digit analysis selector

**Attribute Description:**

This attribute specifies the digit analysis selector (DAS) will be used for a SDN origination. The SDN DAS is used in call that processing to define the digit analysis tables that will be used to analyze the digits for an SDN dialing plan. This attribute is only populated if the trunk group is defined as call-by-call and is optional. Population of this attribute with non-zero is optional because if the SDN dialing plan cannot be included in the default DAS (such as, for example, RLfc_trunk.digtree) then this attribute, sdndas, will then be used as an alternate digit tree. This attribute is used for incoming SDN calls from a call-by-call PRI trunk group at a non-toll office (such as, 5ESS(R)-2000 switch PBX or end office) that provides access of SDN to a toll network. This attribute is not used to route SDN calls via automatic route selection (ARS).

SDN calls are routed with the code index and route index from standard digit analysis (such as local digital interpreter table

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[LDIT], rate and route [RAR], international direct distance dialing [IDDD]) and are not overwritten by the code index and route index obtained from the carrier (such as inter-LATA carrier form [ICF], carrier destination form [CDIM]). For example, the code index is obtained from RLDAPRMFNL.dest and the route index is obtained from RLDAPRMFNL.route_x or RLRT_SCRNING.route_x. The carrier is identified in the same manner as basic interexchange carrier calls, such as obtaining the carrier via the presubscribed interexchange carrier (PIC) parameter assigned to the PRI trunk group. When defining digits to interpret in LDIT, the call type (such as RLDAPRMFNL.desttype) must be FCNORMAL and cannot be FCSDNACCESS.

CDIM - Carrier destination mapping form
ICF - Inter-LATA carrier feature form
IDDD - International direct distance dialing form
LDIT - Local digit interpreter table form
RAR - Rate and route form, screening

Dependencies: If sdndas is not 0, then the RLedsltrkg.calbycal attribute must be DBYES and there must be a tuple in DA_DIGSTRT with the sdndas value.'

**Attribute:**
inhibit_tcm
**Fullname:**
Traveling class mark (TCM) inhibited indicator
**Attribute Description:**
inhibit_tcm is used to indicate whether the traveling class mark (TCM) information element (IE) in the SETUP message should be inhibited for an ARS routed call through a PRI trunk to an interexchange carrier. If and only if following conditions all held true then 'inhibit_tcm' can be set to DBYES.

1) PRI trunk, its class of service is FCEDSLHM or FCEDSL.
2) PRI trunk group which is connected to an Interexchange Carrier office.
3) Calls that are routed by ARS (Example: SDN, MEGACOM(R), or ETS) through a PRI trunk which meets conditions one and two.
4) Calls described in condition three are offnet calls (leaving private network). When this indicator is set to DBYES for a PRI trunk which will be used by a ARS routed call, the TCM information element (IE) in the SETUP message will not be sent to an Interexchange carrier.

If this indicator is set to DBNO, then the TCM IE in the SETUP message will be sent to an interexchange carrier, and treated as a Message associated user to user IE (MAUUI) which may be billed.'

**Attribute:**
e911_cpn
**Fullname:**

Enhanced 911 calling party number

**Attribute Description:**

This bool specifies if the CPN is used instead of the billing number for an E911 query.

**Attribute:**

std_rn_src

**Fullname:**

Standard Redirecting Number Source

**Attribute Description:**

Indicates the PRI B-channel trunk group provisioning field used by the Redirecting Number(RN) on PRI Special Feature. The RN on PRI special feature is a secured feature (SFID 161). This attribute must not be set to DBYES unless the special feature has been purchased and the uui attribute is DBYES.

**Attribute:**

pic2

**Fullname:**

Primary intra-LATA toll carrier ID

**Attribute Description:**

This attribute identifies the presubscribed intra-LATA toll carrier for this trunk group. It may be specified if RLrt_trkg.type == RTTWOWAY, RTINCOM, or RTOUTGO. The pic2 must be $NULL_BCARID if the ICLATA SF (SFID 149) is not activated.

**Attribute:**

plc

**Fullname:**

Presubscribed intra-LATA local carrier ID for an alternate LSP

**Attribute Description:**

This attribute contains the presubscribed intra-LATA local carrier ID for an alternate LSP.

**Attribute:**

pic4

**Fullname:**

Presubscribed international carrier ID

**Attribute Description:**

This attribute identifies the presubscribed international carrier ID.

**Attribute:**

hmtax

**Fullname:**

Hotel/Motel Tax

**Attribute Description:**

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This attribute indicates if the Hotel/Motel with Tax service feature code or Hotel/Motel, No Tax service feature code are included in the AMA record. DBYES indicates Hotel/Motel with Tax.

**Attribute:**
cnam_alw
**Fullname:**
Calling Name Delivery Allowed
**Attribute Description:**
This attribute indicates if this PRI trunk group is subscribed to use Calling Name Delivery feature

**Attribute:**
cnam_ama
**Fullname:**
Calling Name AMA
**Attribute Description:**
This attribute indicates what type of billing is to be done for Calling Name Deliveries - usage-sensitive or flat rate.

**Attribute:**
pcn_alw
**Fullname:**
Privacy of Calling Name Allowed
**Attribute Description:**
This attribute indicates if the PRI trunk is subscribed to use Privacy of Calling Name.

**Attribute:**
pcn_ama
**Fullname:**
Privacy of Calling Name AMA
**Attribute Description:**
This attribute indicates what type of billing is to be done for Privacy of Calling Name - usage-sensitive or flat rate.

**Attribute:**
eds_cnd
**Fullname:**
Electronic Directory Service Calling Name/Original Called Name Delivery
**Attribute Description:**
This attribute indicates if the PRI is subscribed to use Electronic Directory Service Calling Name/Original Called Name Delivery.

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**Attribute:**
eds_grp
**Fullname:**
Electronic Directory Service Group
**Attribute Description:**
This attribute specifies the Electronic Directory Service Group identifier used by this PRI trunk group for EDS CND.

**Attribute:**
alw_data_only
**Fullname:**
Allow Data Only On This PRI Trunk
**Attribute Description:**
This attribute indicates if this PRI trunk can only originate data calls.

**Attribute:**
b_chan_neg
**Fullname:**
B Channel Negotiation
**Attribute Description:**
This attribute acts as a subscription bit for the B-channel negotiation service. A value of DBYES means the user is allowed to negotiate which B-channel they will use.

**Attribute:**
custom_cbc
**Fullname:**
Custom Call-By-Call
**Attribute Description:**
This attribute indicates if terminating call-by-call SFGs should be used for the following services: SDN, MEGACOM800, I800, and MultiQuest(R). In order for this attribute to be set to DBYES the calbycal attribute must first be set to DBYES.

**Attribute:**
ffcf1
**Fullname:**
bit reserved for future field feature use
**Attribute Description:**
Not assigned yet

**Attribute:**
ffcf2
**Fullname:**

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bit reserved for future field feature use

**Attribute Description:**

Not assigned yet

**Attribute:**

ffcf3

**Fullname:**

bit reserved for future field feature use

**Attribute Description:**

Not assigned yet

**Attribute:**

ffcf4

**Fullname:**

bit reserved for future field feature use

**Attribute Description:**

Not assigned yet

**Attribute:**

ffcf5

**Fullname:**

unsigned 8 reserved for future field feature use

**Attribute Description:**

Not assigned yet

**Attribute:**

ffcf6

**Fullname:**

bit reserved for future field feature use

**Attribute Description:**

Not assigned yet

**Attribute:**

rn_scrn

**Fullname:**

Redirecting Number screen indicator.

**Attribute Description:**

This attribute indicates whether a Redirecting Number should be screened against a range(s) of numbers associated with the PRI on originations over the PRI for circuit switched voice and circuit switched data calls. When an RN is received in the SETUP message on originations over a PRI, this indicator specifies whether it should be screened or not. Screening for the RN is similar to that of a user-provided CPN. See description for cpn_scrn.

This attribute can be set to DBYES only when the secured feature Modified RN Origination on PRI has been purchased (SFID 244 is active).

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This option should only be assigned to incoming or two-way trunk groups (RLrt_trkg.type must be RTINCOM or RTTWOWAY).

**Attribute:**
rn_billing
**Fullname:**
Redirecting Number billing indicator.
**Attribute Description:**
This attribute indicates if the Redirecting Number should be used as billing DN. If rn_billing is set to DBYES, and the number in the PRI RN IE passes screening (or is not screened with a 7 or 10 digit RN), the call will be billed against the number in the RN IE. If rn_billing is set to DBYES, and the number does not pass screening, CPN billing feature will apply, if set. If not set, existing PRI billing applies. If rn_billing is set to DBNO, existing PRI billing applies. This attribute can be set to DBYES only when the secured feature Modified RN Origination on PRI has been purchased (SFID 244 is active).

This option should only be assigned to incoming or two-way trunk groups (RLrt_trkg.type must be RTINCOM or RTTWOWAY).

**Attribute:**
rn_disc
**Fullname:**
Redirecting Number discard indicator.
**Attribute Description:**
This attribute indicates if the Redirecting Number should be discarded. If rn_disc is set to DBYES only the number received in the PRI RN IE that is not screened or is screened and fails screening will be discarded. If rn_disc is DBNO, the number in the PRI RN IE will not be discarded. This attribute can be set to DBYES only when the secured feature Modified RN Origination on PRI has been purchased (SFID 244 is active).

This option should only be assigned to incoming or two-way trunk groups (RLrt_trkg.type must be RTINCOM or RTTWOWAY).

**Attribute:**
unbundled
**Fullname:**
Network/LEC indicator, for calls to complete to an alternate LSP platform.
**Attribute Description:**
When unbundled = DBYES, (None/1)+ 7/10 digit intra-LATA local calls route using presubscribed local carrier (PLC) information. If PLC routing information is not populated, route via the LEC. When unbundled = DBNO, (None/1)+ 7/10

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```
        digit intra-LATA local calls always route via the LEC.
```

**Defines:**

```
        "db/DMnpasrc.h",
         "db/DMcarrid.h",
         "db/DMcarr_val.h"
```

# EIS_DATA

## 1. Description

This relation contains the static relation containing EIS interface related information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| trigger function | OAteisdata |
| insert trigger | DBNO |
| update trigger | DBYES |
| delete trigger | DBNO |
| end of transaction trigger | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
EIS_DATA    relid = 1266  DBSTATIC   DBACC_LIN   DBPRAM    FG      NULL
     eis_id      DMEIS_ID     (ushort: 5) <--- key
     oaff1       DMUNS3       (ushort: 3)
 (a) msg_set_id  DMMSGSETID   (enum: 4)
     oaff2       DMUNS4       (ushort: 4)
     eis_msg_dly  DMUNS10      (ushort: 10)
 (b) eis_vendor  DMUNS4       (ushort: 4)
 (c) oaff3       DMUNS2       (ushort: 2)
     mx_call_lnk  DMUNS8       (ushort: 8)
     mx_lnk_cap  DMUNS8       (ushort: 8)
     eis_swid    DMEISSWID    (ushort: 8)
     oaff4       DMUNS8       (ushort: 8)
 (d) locmethod   DMLOCMTH     (enum: 3)
     oaff5       DMHEX32      (ulong)
     oaff6       DMHEX32      (ulong)
     smsel1      DMHEX32      (ulong)
     smsel2      DMHEX32      (ulong)
     smsel3      DMHEX32      (ulong)
     smsel4      DMHEX32      (ulong)
     smsel5      DMHEX32      (ulong)
     smsel6      DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   EIS_DATA
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |         |     |       |       |                   |       |   |
  0 |  eis_id |oaff1|   a   | oaff2 |    eis_msg_dly    |   b   | c |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |  mx_call_lnk  |   mx_lnk_cap  |    eis_swid   |     oaff4     |
    |---------------+---------------+---------------+---------------|
    |     |                                                         |
  8 |  d  |*********************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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```
 12 |                            oaff5                              |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                            oaff6                              |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                            smsel1                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 24 |                            smsel2                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 28 |                            smsel3                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 32 |                            smsel4                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 36 |                            smsel5                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 40 |                            smsel6                             |
    |---------------+---------------+---------------+---------------|
       ( 44 bytes )
domain alEIS_DATA struct  (15 sub-attributes)
         eis_id      .10.fake     (ushort: 5)
         oaff1       .11.fake     (ushort: 3)
 (a)     msg_set_id  .1fake       (enum)
         oaff2       .12.fake     (ushort: 4)
         eis_msg_dly  .13.fake     (ushort: 10)
 (b)     eis_vendor  .14.fake     (ushort: 4)
 (c)     oaff3       .15.fake     (ushort: 2)
         mx_call_lnk  .16.fake     (ushort)
         mx_lnk_cap  .17.fake     (ushort)
         eis_swid    .18.fake     (ushort)
         oaff4       .19.fake     (ushort)
 (d)     locmethod   .0fake       (enum)
         oaff5       unsigned long (ulong)
         oaff6       unsigned long (ulong)
         smsel       .20.fake     (array [ 6 ] of unsigned long )
                     Structure Layout    alEIS_DATA
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |         |     |       |       |                   |       |   |
  0 |  eis_id |oaff1|   a   | oaff2 |    eis_msg_dly    |   b   | c |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |  mx_call_lnk  |   mx_lnk_cap  |    eis_swid   |     oaff4     |
    |---------------+---------------+---------------+---------------|
    |     |                                                         |
  8 |  d  |*********************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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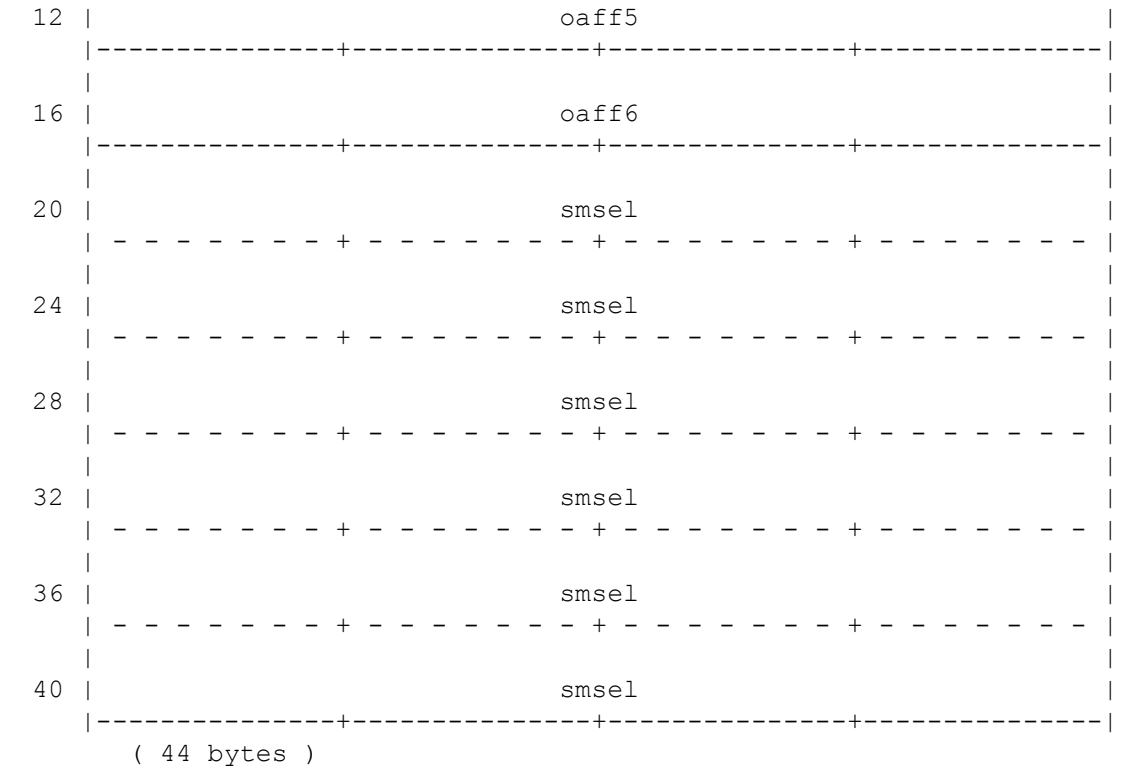


## 4. Population rules for RLeis_data

### Relation Description

External Information System Data
This relation is used to determine the operational parameters for a particular EIS. It will be accessed whenever a call is assigned to an EIS.

Trigger function OAteisdata is called during relation updates. This trigger function will block updates if certain fields are changed when there are links in service for this EIS. The fields which cannot be changed when links are in service are: eis_vendor, msg_set_id, eis_swid, eis_msg_dly.

Maximum number of tuples is 16. Expected average number is 10. To allow the addition of new vendors during the life of the generic without requiring rdl changes, the following local defines must be used by code on the switch for eis_vendor:

```
#define OANO_VEN        0
#define OACCI           1
#define OAIBM           2
#define OAVLTD          3
#define OAURIX          4
#define OALKHD          5
#define OACGI           6
#define OATMC           7
#define OANRP           8
```

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**Attribute:**
eis_id
**Fullname:**
External Information System Identification Number
**Attribute Description:**
This attribute's value is the identification number assigned to the EIS.

**Attribute:**
locmethod
**Fullname:**
locality transfer method.
**Attribute Description:**
ADAS locality transfer method.

**Attribute:**
oaff1
**Fullname:**
Locality Method
**Attribute Description:**
This attribute will identify whether the Automated Directory Assistance System (ADAS) locality phrase is transmitted from an Automated Position to the Listing Services Database vendor via OSPS Operator Workstation (OWS) display or Call Processing Data Link (CPDL) message. Bits 0 and 1 of this attribute are being used for this purpose.

**Attribute:**
msg_set_id
**Fullname:**
message set identification
**Attribute Description:**
This attribute will contain the message sets supported by the EIS software interface.

**Attribute:**
oaff2
**Fullname:**
spare 2
**Attribute Description:**
Fast Feature Spare 2.

**Attribute:**
eis_msg_dly
**Fullname:**
message delay
**Attribute Description:**
Number of 50 millisecond intervals to wait for an expected message.

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**Attribute:**
eis_vendor
**Fullname:**
External Information System Vendor
**Attribute Description:**
Number assigned to vendor who supplies the EIS.

**Attribute:**
oaff3
**Fullname:**
spare 3
**Attribute Description:**
Fast Feature Spare 3

**Attribute:**
mx_call_lnk
**Fullname:**
maximum number of calls on link
**Attribute Description:**
This attribute's value will specify the maximum number of calls supported on an EIS link.

**Attribute:**
mx_lnk_cap
**Fullname:**
Maximum link capacity
**Attribute Description:**
This attribute's value will specify the maximum capacity of EIS link in messages per second.

**Attribute:**
eis_swid
**Fullname:**
Switch identification
**Attribute Description:**
Number assigned (by the EIS) to this switch and generic.

**Attribute:**
oaff4
**Fullname:**
spare 4
**Attribute Description:**
Fast Feature Spare 4.

**Attribute:**

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oaff5

**Fullname:**

spare 5

**Attribute Description:**

Fast Feature Spare 5.

**Attribute:**

oaff6

**Fullname:**

spare 6

**Attribute Description:**

Fast Feature Spare 6.

**Attribute:**

smsel1

**Fullname:**

Switching module selector1

**Attribute Description:**

Bits which are on (1) indicate the SMs (1 - 32) which support pre-operator features for this EIS system. For example, if this equals 0x4, then SM 3 supports pre-operator features. Selected SMs must be loaded SMs.

**Attribute:**

smsel2

**Fullname:**

Switching module selector2

**Attribute Description:**

Bits which are on (1) indicate the SMs (33 - 64) which support pre-operator features for this EIS system. For example, if this equals 0x4, then SM 35 supports pre-operator features. Selected SMs must be loaded SMs.

**Attribute:**

smsel3

**Fullname:**

Switching module selector3

**Attribute Description:**

Bits which are on (1) indicate the SMs (65 - 96) which support pre-operator features for this EIS system. For example, if this equals 0x4, then SM 67 supports pre-operator features. Selected SMs must be loaded SMs.

**Attribute:**

smsel4

**Fullname:**

Switching module selector4

**Attribute Description:**

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Bits which are on (1) indicate the SMs (97 - 128) which support pre-operator features for this EIS system. For example, if this equals 0x4, then SM 99 supports pre-operator features. Selected SMs must be loaded SMs.

**Attribute:**

smsel5

**Fullname:**

Switching module selector5

**Attribute Description:**

Bits which are on (1) indicate the SMs (129 - 160) which support pre-operator features for this EIS system. For example, if this equals 0x4, then SM 131 supports pre-operator features. Selected SMs must be loaded SMs.

**Attribute:**

smsel6

**Fullname:**

Switching module selector6

**Attribute Description:**

Bits which are on (1) indicate the SMs (161 - 192) which support pre-operator features for this EIS system. For example, if this equals 0x4, then SM 163 supports pre-operator features. Selected SMs must be loaded SMs.

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# EIS_RCL

## 1. Description

External information system (EIS) recall call type.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 320 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
EIS_RCL     relid = 1267  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     oaff2       DMUSHORT     (ushort)
     oaff3       DMUSHORT     (ushort)
     serv_id     DMUNS10      (ushort: 10)     <--- key
     eis_id      DMEIS_ID     (ushort: 5)     <--- key
 (a) oaff1       DMBOOL       (enum: 1)
     rcl_type    DMUNS8       (ushort: 8)
     oaff4       DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout    EIS_RCL
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             oaff2             |             oaff3             |
    |---------------+---------------+---------------+---------------|
    |                   |         | |                |              |
  4 |      serv_id      |  eis_id |a|    rcl_type    |     oaff4    |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLeis_rcl

**Relation Description** This relation allows the customer the ability to assign the recall call type based on the current service ID and EIS ID. The recall must be served by the same EIS because only it would have a record of the original call.
Maximum number of tuples is 320 (based on 32 call types and 10 EIS systems) with the expected average number of tuples to be 100.

**Attribute: eis_id**

**Fullname:** External Information System ID
**Attribute Description** Number assigned to the EIS.

**Attribute: serv_id**

**Fullname:** Service ID
**Attribute Description** Service ID for this particular listing service.

**Attribute: rcl_type**

**Fullname:** Recall call type
**Attribute Description** Recall call queue for this call. This cannot be changed (updated) if

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RLeis_rcl.serv_id equals RLctinfo.serv_id for any RLctinfo tuple.

**Attribute: oaff1 Fullname:** Spare 1
**Attribute Description** Fast feature spare.

**Attribute: oaff2 Fullname:** Spare 2
**Attribute Description** Fast feature spare.

**Attribute: oaff3 Fullname:** Spare 3
**Attribute Description** Fast feature spare.

**Attribute: oaff4 Fullname:** Spare 4
**Attribute Description** Fast feature spare.

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# EIS_SM

## 1. Description

Static relation containing minimum number of data links needed by an EIS on an SM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8 |
| access type | DBACC_CIND |
| expected number of tuples | 1 |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | OAteissm |
| insert trigger | DBYES |
| update trigger | DBNO |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
EIS_SM      relid = 1265  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     lnks_asgnd  DMUSHORT     (ushort)
     eis_id      DMEIS_ID     (ushort: 5)     <--- key
     magic_num   DMUNS5       (ushort: 5)
 (a) lnks_on_sm  DMUNS5       (ushort: 5)
         User, Compacted and Stored Tuple Layout EIS_SM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |          |          |          | |
  0 |           lnks_asgnd           |  eis_id  |magic_num|    a     |*|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLeis_sm

**Relation Description** External information system (EIS) switching module (SM).
This relation specifies the minimum number of links needed to support the SM during the busy hour and the total number of call processing data links (CPDLs) assigned to the EIS on this SM.
Expected average number of tuples is one.

**Attribute: eis_id**

**Fullname:** External information system identification number
**Attribute Description** This attribute's value specifies the identification number assigned to the EIS.

**Attribute: magic_num**

**Fullname:** Minimum number of links assigned for busy hour service
**Attribute Description** This attribute's value specifies the minimum number of data links on the SM needed for support of busy hour service. It is checked when a link is removed from service. If the number of links remaining is less than 'magic_num', a major alarm is given. If the number of links remaining is equal to or greater than 'magic_num', a minor alarm is given.

**Attribute: lnks_on_sm**

**Fullname:** Number of CPDLs assigned to this EIS on the SM

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**Attribute Description** This attribute's value designates the number of CPDLs assigned to this EIS on the SM.

**Attribute: lnks_asgnd**

**Fullname:** SM relative link numbers assigned

**Attribute Description** This attribute's bit map indicates the relative link number of the links for this EIS on the SM. It indicates the CPDLs assigned to this EIS on the particular SM. The bit position represents the value of the SM relative link number. For example, if this equals 0x9 (0000000000001001), then links zero and three are assigned to this SM.

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# EISDSL

## 1. Description

This relation contains the static relation contains data needed by measurements for EIS peg counts.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| expected number of tuples | 3 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | OAteisdsl |
| insert trigger | DBYES |
| update trigger | DBNO |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
EISDSL      relid = 1274  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     dport       DMPORT       (ushort)
     oaff1       DMUSHORT     (ushort)
     oaff2       DMUSHORT     (ushort)
     x_link      DMXNAMRL     (ushort: 13)
 (a) oaff4       DMBOOL       (enum: 1)
 (b) oaff5       DMBOOL       (enum: 1)
 (c) oaff6       DMBOOL       (enum: 1)
     oaff3       DMUCHAR      (uchar)
     mx_lnk_cap  DMUNS8       (ushort: 8)
     x_name      DMEIS_ID     (ushort: 5)
 (d) sm_rel_lnk  DMUNS4       (ushort: 4) <--- key
 (e) oaff7       DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout EISDSL
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             dport             |             oaff1             |
   |---------------+---------------+---------------+---------------|
   |                               |                       | | | | |
 4 |             oaff2             |          x_link       |a|b|c|
   |---------------+---------------+---------------+---------------|
   |               |               |         |       | |           |
 8 |     oaff3     |   mx_lnk_cap  |  x_name |   d   |e|***********|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population rules for RLeisdsl

**Relation Description**

```
External information system (EIS) datalink data
This relation contains the data needed by measurements so
that they can peg measurement counts based on the relative
call processing data link (CPDL) number on the switching
```

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module (SM), and yet obtain the 'x_name' and 'x_link' numbers for measurement printouts.

GROWTH/ENGINEERING RULES

The alternate link ID specified in the International Business Machine (IBM) DSSLNK utility must return to the same Operator Services Position System (OSPS) packet switching module (PSM). This is due to the fact that the call ID has been created from the PSM number prepended to the SM relative link number; changing PSMs in the middle of the call would require a change in the call ID (this condition is not advisable).

**Attribute:**
sm_rel_lnk
**Fullname:**
SM relative link
**Attribute Description:**
This is the number of the call processing data link relative to the SM.

**Attribute:**
x_name
**Fullname:**
External link name
**Attribute Description:**
This is the external name of the link. It is equal to the EIS number (ID) of the EIS using this link.

**Attribute:**
x_link
**Fullname:**
External link number
**Attribute Description:**
This is the external link number of the call processing data link. It can be the link number associated with the EIS.

**Attribute:**
dport
**Fullname:**
Port number on this SM
**Attribute Description:**
This is the member number of the link (port.member).

**Attribute:**
mx_lnk_cap
**Fullname:**
Maximum link capacity
**Attribute Description:**

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Maximum application messages per second.

**Attribute:**
oaff1
**Fullname:**
unsigned short spare
**Attribute Description:**
Unused

**Attribute:**
oaff2
**Fullname:**
unsigned short spare
**Attribute Description:**
Unused

**Attribute:**
oaff3
**Fullname:**
unsigned character
**Attribute Description:**
Unused

**Attribute:**
oaff4
**Fullname:**
boolean
**Attribute Description:**
Unused

**Attribute:**
oaff5
**Fullname:**
boolean
**Attribute Description:**
Unused

**Attribute:**
oaff6
**Fullname:**
boolean
**Attribute Description:**
Unused

**Attribute:**
oaff7

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**Fullname:**
boolean
**Attribute Description:**
Unused

**Defines:**
"db/DMport.h"

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# ENETLINK

## 1. Description

This relation provides parameters for external *Ethernet*® links.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 70 |
| expected tuples in relation | 40 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | SMt_enetlink |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
ENETLINK    relid = 2770  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     s0ip0ad     DMHEX32      (ulong)
     s0ip1ad     DMHEX32      (ulong)
     s1ip0ad     DMHEX32      (ulong)
     s1ip1ad     DMHEX32      (ulong)
     s0hw0ad0    DMHEXC8      (uchar: 8)
     s0hw0ad1    DMHEXC8      (uchar: 8)
     s0hw0ad2    DMHEXC8      (uchar: 8)
     s0hw0ad3    DMHEXC8      (uchar: 8)
     s0hw0ad4    DMHEXC8      (uchar: 8)
     s0hw0ad5    DMHEXC8      (uchar: 8)
     s0hw1ad0    DMHEXC8      (uchar: 8)
     s0hw1ad1    DMHEXC8      (uchar: 8)
     s0hw1ad2    DMHEXC8      (uchar: 8)
     s0hw1ad3    DMHEXC8      (uchar: 8)
     s0hw1ad4    DMHEXC8      (uchar: 8)
     s0hw1ad5    DMHEXC8      (uchar: 8)
     s1hw0ad0    DMHEXC8      (uchar: 8)
     s1hw0ad1    DMHEXC8      (uchar: 8)
     s1hw0ad2    DMHEXC8      (uchar: 8)
     s1hw0ad3    DMHEXC8      (uchar: 8)
     s1hw0ad4    DMHEXC8      (uchar: 8)
     s1hw0ad5    DMHEXC8      (uchar: 8)
     s1hw1ad0    DMHEXC8      (uchar: 8)
     s1hw1ad1    DMHEXC8      (uchar: 8)
     s1hw1ad2    DMHEXC8      (uchar: 8)
     s1hw1ad3    DMHEXC8      (uchar: 8)
     s1hw1ad4    DMHEXC8      (uchar: 8)
     s1hw1ad5    DMHEXC8      (uchar: 8)
     snd_port0   DMENETPORT   (ushort)
     rcv_port0   DMENETPORT   (ushort)
(a)  numports    DMUNS4       (ushort: 4)
(b)  protocol    DMENETPROT   (enum: 2)
(c)  enet_serv   DMENETSERV   (enum: 2)
```

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```
 (d) elnk_type   DMELNKTYPE   (enum: 1) <--- key
 (e) epipe       DMEPIPENUM   (uchar: 2) <--- key
     elnk        DMELNKNUM    (uchar: 7) <--- key
         User, Compacted and Stored Tuple Layout   ENETLINK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                           s0ip0ad                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           s0ip1ad                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                           s1ip0ad                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                           s1ip1ad                             |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 16 |    s0hw0ad0   |    s0hw0ad1   |    s0hw0ad2   |    s0hw0ad3   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 20 |    s0hw0ad4   |    s0hw0ad5   |    s0hw1ad0   |    s0hw1ad1   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 24 |    s0hw1ad2   |    s0hw1ad3   |    s0hw1ad4   |    s0hw1ad5   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 28 |    s1hw0ad0   |    s1hw0ad1   |    s1hw0ad2   |    s1hw0ad3   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 32 |    s1hw0ad4   |    s1hw0ad5   |    s1hw1ad0   |    s1hw1ad1   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 36 |    s1hw1ad2   |    s1hw1ad3   |    s1hw1ad4   |    s1hw1ad5   |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 40 |           snd_port0           |           rcv_port0           |
    |---------------+---------------+---------------+---------------|
    |       |   |   | |   |         |             |                 |
 44 |   a   | b | c |d| e |*********|     elnk    |*****************|
    |---------------+---------------+---------------+---------------|
      ( 48 bytes )
domain alENETLINK struct  (9 sub-attributes)
        iphw_addr   .3fake       (struct)
            ipad        .3.fake      (array [ 4 ] of unsigned long )
            hwad        .4.fake      (array [ 24 ] of unsigned char )
        snd_port0   unsigned short (ushort)
        rcv_port0   unsigned short (ushort)
 (a)    numports    .5.fake      (ushort: 4)
 (b)    protocol    .1fake       (enum)
 (c)    enet_serv   .2fake       (enum)
 (d)    elnk_type   .0fake       (enum)
```

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```
(e)     epipe       .6.fake      (uchar: 2)
        elnk        .7.fake      (uchar: 7)
                    Structure Layout    alENETLINK
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+========== iphw_addr ==========+===============|
   |                                                                |
 0 |                               ipad                             |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                                |
 4 |                               ipad                             |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                                |
 8 |                               ipad                             |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                                |
12 |                               ipad                             |
   |---------------+---------------+---------------+---------------|
   |                                                                |
16 |                               hwad                             |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                                |
20 |                               hwad                             |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                                |
24 |                               hwad                             |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                                |
28 |                               hwad                             |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                                |
32 |                               hwad                             |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                                |
36 |                               hwad                             |
   |===============+===============+===============+===============|
   |                                 |                              |
40 |           snd_port0             |           rcv_port0          |
   |---------------+---------------+---------------+---------------|
   |       |   |   | |   |         |             |                 |
44 |   a   | b | c |d| e |*********|     elnk    |*****************|
   |---------------+---------------+---------------+---------------|
      ( 48 bytes )
```

## 4. Population rules for RLenetlink

### Relation Description

External Ethernet(R) link
This relation provides parameters for external Ethernet(R) links.

**Attribute:**

epipe

**Fullname:**

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External Ethernet(R) pipe number

**Attribute Description:**

Number of the Ethernet(R) pipe on which this Ethernet(R) link resides. This should be a value between 0 and (SMDBMEPIPES - 1), inclusive.
Key attribute.

**Attribute:**

elnk

**Fullname:**

External Ethernet(R) link number

**Attribute Description:**

Number of the Ethernet(R) link. This should be a value between 0 and (SMDBMELNKS - 1), inclusive.
Key attribute.

**Attribute:**

elnk_type

**Fullname:**

External Ethernet(R) link type

**Attribute Description:**

Type of external Ethernet(R) link described by this tuple.
Key attribute.

**Attribute:**

enet_serv

**Fullname:**

Ethernet(R) service type

**Attribute Description:**

Type of service provided by this Ethernet(R) link.

**Attribute:**

protocol

**Fullname:**

Ethernet(R) protocol

**Attribute Description:**

Ethernet(R) send/receive protocol supported by this Ethernet(R) link.

**Attribute:**

snd_port0

**Fullname:**

Starting (first) send port

**Attribute Description:**

Starting port from which data will be transmitted to the far end system. Other send ports are numbered consecutively from this starting port; the numports attribute gives the total number of send ports starting from snd_port0.

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**Attribute:**
rcv_port0
**Fullname:**
Starting (first) receive port
**Attribute Description:**
Starting port from which data will be received from the far end system. Other receive ports are numbered consecutively from this starting port; the numports attribute gives the total number of receive ports starting from rcv_port0.

**Attribute:**
numports
**Fullname:**
Number of ports
**Attribute Description:**
Number of consecutive send and receive ports (starting from snd_port0 and rcv_port0) supported on this Ethernet(R) link.

**Attribute:**
s0ip0ad
**Fullname:**
First internet protocol address on side 0.
**Attribute Description:**
First internet protocol address for side 0 of this Ethernet(R) link. This is one of the IP addresses the EIB transmits to and the far end receives on.

IP addresses are communicated to humans in dotted decimal notation (sometimes called "dotted quad notation" too). This notation represents the IP address as four decimal integers separated by decimal points, where each integer gives the value of one octet of the IP address, such as, 135.2.66.110. All the s[*]ip[*]ad attributes in this relation store the IP address as a 32 bit hexadecimal number. The hexadecimal version of the IP address is obtained from the dotted decimal version by converting each decimal octet to its 2 digit hexadecimal equivalent and then removing the decimal points. For example, the IP address 135.2.66.110 converts to 0x8702426e as follows:

135.2.66.110 = 0x87.0x02.0x42.0x6e = 0x8702426e

**Attribute:**
s0ip1ad
**Fullname:**
Second internet protocol address on side 0.
**Attribute Description:**
Second internet protocol address for side 0 of this Ethernet(R) link. If provisioned, this is one of the IP addresses the EIB transmits to and the far end receives on. This attribute allows support for duplex connections on a single Ethernet(R) link. See s0ip0ad attribute description above for an explanation of how this attribute stores an IP

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address.

**Attribute:**
s1ip0ad
**Fullname:**
First internet protocol address on side 1.
**Attribute Description:**
First internet protocol address for side 1 of this Ethernet(R) link. This is one of the IP addresses the EIB transmits to and the far end receives on. See s0ip0ad attribute description above for an explanation of how this attribute stores an IP address.

**Attribute:**
s1ip1ad
**Fullname:**
Second internet protocol address on side 1.
**Attribute Description:**
Second internet protocol address for side 1 of this Ethernet(R) link. If provisioned, this is one of the IP addresses the EIB transmits to and the far end receives on. This attribute allows support for duplex connections on a single Ethernet(R) link. See s0ip0ad attribute description above for an explanation of how this attribute stores an IP address.

**Attribute:**
s0hw0ad[*]
**Fullname:**
First Ethernet(R) hardware address on side 0.
**Attribute Description:**
First far end Ethernet(R) hardware address for side 0 of this Ethernet(R) link. This is a 6 byte (48 bit) hardware address where hardware address bits 47-40 are stored in s0hw0ad0, hardware address bits 39-32 are stored in s0hw0ad1, etc, on down to hardware address bits 7-0 stored in s0hw0ad5.

Ethernet(R) hardware addresses, also referred to as physical or MAC (media access control) addresses, are typically specified as 6 colon-separated hexadecimal octets. For example, an s0hw0ad[*] hardware address attribute value of { 0x08, 0x00, 0x20, 0x75, 0x8c, 0x0e } would be written as 08:00:20:75:8c:0e.

**Attribute:**
s0hw1ad[*]
**Fullname:**
Second Ethernet(R) hardware address on side 0.
**Attribute Description:**
Second far end Ethernet(R) hardware address for side 0 of this Ethernet(R) link. If provisioned, the hardware address is populated as described above for the s0hw0ad[*] attribute.

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**Attribute:**
s1hw0ad[*]
**Fullname:**
First Ethernet(R) hardware address on side 1.
**Attribute Description:**
First far end Ethernet(R) hardware address for side 1 of this Ethernet(R) link. The hardware address is populated as described above for the s0hw0ad[*] attribute.

**Attribute:**
s1hw1ad[*]
**Fullname:**
Second Ethernet(R) hardware address on side 1.
**Attribute Description:**
Second far end Ethernet(R) hardware address for side 1 of this Ethernet(R) link. If provisioned, the hardware address is populated as described above for the s0hw0ad[*] attribute.

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# ENETPIPE

## 1. Description

This relation provides parameters for external *Ethernet*®Interface Boards (EIB)s and hubs, the two ends of a physical Ethernet connection that together define an Ethernet pipe.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| expected tuples in relation | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | SMt_enetpipe |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
ENETPIPE    relid = 2800  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     s0e_cktnm   DMCIRCUIT    (ushort)
     s1e_cktnm   DMCIRCUIT    (ushort)
     s0eipad     DMHEX32      (ulong)
     s1eipad     DMHEX32      (ulong)
     s0hipad     DMHEX32      (ulong)
     s1hipad     DMHEX32      (ulong)
     s0ehwad0    DMHEXC8      (uchar: 8)
     s0ehwad1    DMHEXC8      (uchar: 8)
     s0ehwad2    DMHEXC8      (uchar: 8)
     s0ehwad3    DMHEXC8      (uchar: 8)
     s0ehwad4    DMHEXC8      (uchar: 8)
     s0ehwad5    DMHEXC8      (uchar: 8)
     s1ehwad0    DMHEXC8      (uchar: 8)
     s1ehwad1    DMHEXC8      (uchar: 8)
     s1ehwad2    DMHEXC8      (uchar: 8)
     s1ehwad3    DMHEXC8      (uchar: 8)
     s1ehwad4    DMHEXC8      (uchar: 8)
     s1ehwad5    DMHEXC8      (uchar: 8)
     s0hhwad0    DMHEXC8      (uchar: 8)
     s0hhwad1    DMHEXC8      (uchar: 8)
     s0hhwad2    DMHEXC8      (uchar: 8)
     s0hhwad3    DMHEXC8      (uchar: 8)
     s0hhwad4    DMHEXC8      (uchar: 8)
     s0hhwad5    DMHEXC8      (uchar: 8)
     s1hhwad0    DMHEXC8      (uchar: 8)
     s1hhwad1    DMHEXC8      (uchar: 8)
     s1hhwad2    DMHEXC8      (uchar: 8)
     s1hhwad3    DMHEXC8      (uchar: 8)
     s1hhwad4    DMHEXC8      (uchar: 8)
     s1hhwad5    DMHEXC8      (uchar: 8)
 (a) enet_serv   DMENETSERV   (enum: 2)
 (b) eib_type    DMEIBTYPE    (enum: 1) <--- key
```

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```
 (c) epipe       DMEPIPENUM   (uchar: 2) <--- key
        User, Compacted and Stored Tuple Layout   ENETPIPE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |           s0e_cktnm           |           s1e_cktnm           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           s0eipad                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                           s1eipad                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                           s0hipad                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                           s1hipad                             |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 20 |    s0ehwad0   |    s0ehwad1   |    s0ehwad2   |    s0ehwad3   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 24 |    s0ehwad4   |    s0ehwad5   |    s1ehwad0   |    s1ehwad1   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 28 |    s1ehwad2   |    s1ehwad3   |    s1ehwad4   |    s1ehwad5   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 32 |    s0hhwad0   |    s0hhwad1   |    s0hhwad2   |    s0hhwad3   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 36 |    s0hhwad4   |    s0hhwad5   |    s1hhwad0   |    s1hhwad1   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 40 |    s1hhwad2   |    s1hhwad3   |    s1hhwad4   |    s1hhwad5   |
    |---------------+---------------+---------------+---------------|
    |   | |   |                                                     |
 44 | a |b| c |*****************************************************|
    |---------------+---------------+---------------+---------------|
      ( 48 bytes )
domain alENETPIPE struct  (5 sub-attributes)
        e_cktnm     .5.fake      (array [ 2 ] of unsigned short )
        iphw_addr   .2fake       (struct)
            eipad       .1.fake      (array [ 2 ] of unsigned long )
            hipad       .2.fake      (array [ 2 ] of unsigned long )
            ehwad       .3.fake      (array [ 12 ] of unsigned char )
            hhwad       .4.fake      (array [ 12 ] of unsigned char )
 (a)    enet_serv   .1fake       (enum)
 (b)    eib_type    .0fake       (enum)
 (c)    epipe       .6.fake      (uchar: 2)
                   Structure Layout    alENETPIPE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
```

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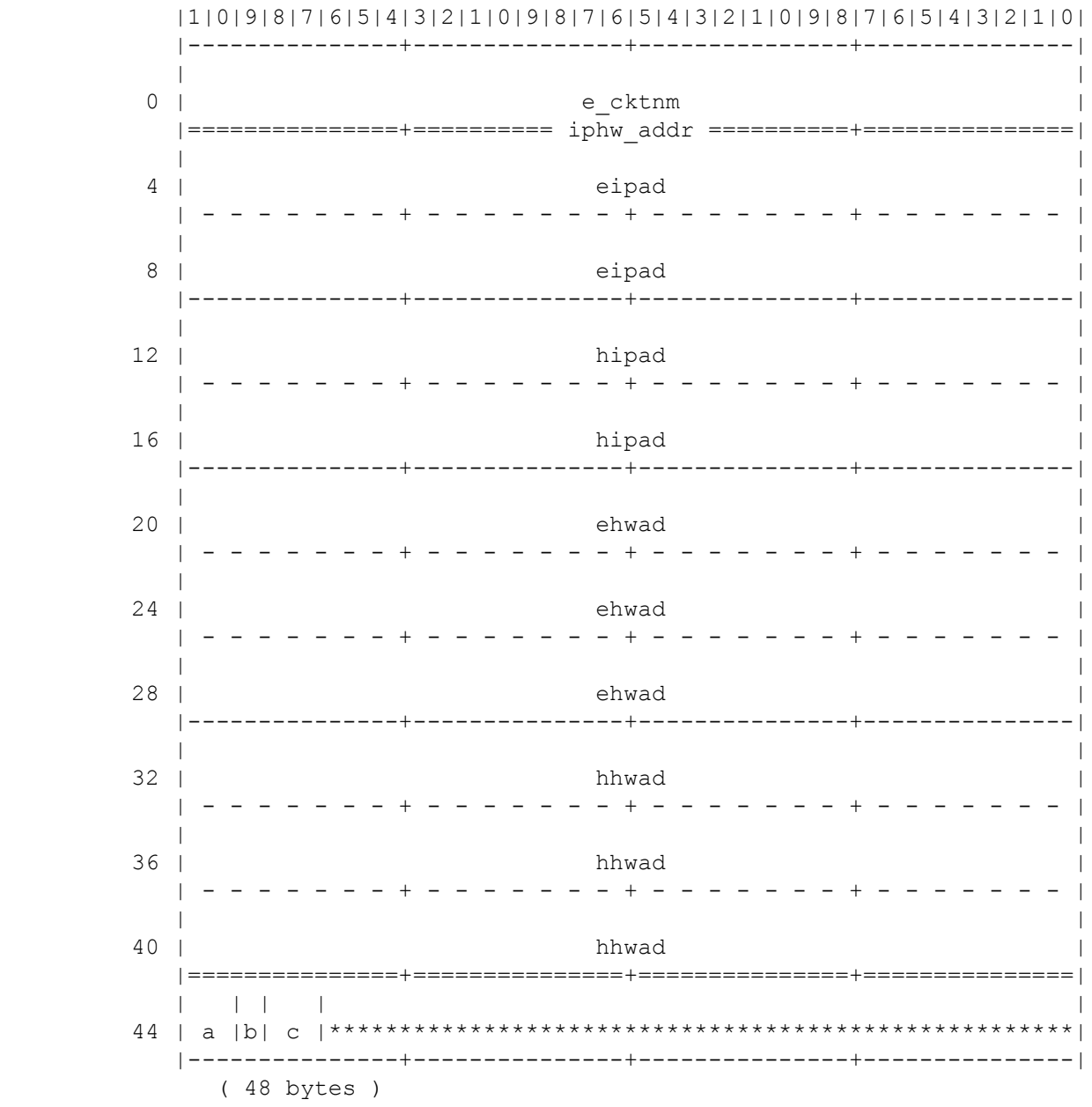


## 4. Population rules for RLenetpipe

**Relation Description**

External Ethernet(R) pipe
This relation provides parameters for external Ethernet(R) interface boards (EIBs) and hubs, the two ends of a physical Ethernet(R) connection that together define an Ethernet(R) pipe.

**Attribute:**

epipe

**Fullname:**

External Ethernet(R) pipe number

**Attribute Description:**

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Number of the Ethernet(R) pipe described by this tuple. This should be a value between 0 and (SMDBMEPIPES - 1), inclusive.
Key attribute.

**Attribute:**
eib_type
**Fullname:**
External Ethernet(R) interface type
**Attribute Description:**
Type of external Ethernet(R) EIB/hub described by this tuple.
Key attribute.

**Attribute:**
enet_serv
**Fullname:**
Ethernet(R)service type
**Attribute Description:**
Type of service provided by the Ethernet(R) links on this Ethernet(R) pipe.

**Attribute:**
s0e_cktnm
**Fullname:**
Side 0 EIB circuit name
**Attribute Description:**
Circuit name of the side 0 Ethernet(R) interface board. This circuit name must have a PCMELNK circuit type in RLcktdata.

**Attribute:**
s1e_cktnm
**Fullname:**
Side 1 EIB circuit name
**Attribute Description:**
Circuit name of the side 1 Ethernet(R) interface board. This circuit name must have a PCMELNK circuit type in RLcktdata.

**Attribute:**
s0eipad
**Fullname:**
EIB side 0 internet protocol address.
**Attribute Description:**
Internet protocol address of the side 0 Ethernet(R) interface board. This is the IP address the side 0 EIB receives on and the hub/far end transmit to.

IP addresses are communicated to humans in dotted decimal notation (sometimes called "dotted quad notation" too). This notation represents the IP address as four decimal integers separated by decimal points, where each integer gives the value of one octet of the IP address,

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such as, 135.2.66.110. The s[*]eipad and s[*]hipad attributes in this relation store the IP address as a 32 bit hexadecimal number. The hexadecimal version of the IP address is obtained from the dotted decimal version by converting each decimal octet to its 2 digit hexadecimal equivalent and then removing the decimal points. For example, the IP address 135.2.66.110 converts to 0x8702426e as follows:

135.2.66.110 = 0x87.0x02.0x42.0x6e = 0x8702426e

**Attribute:**
s1eipad
**Fullname:**
EIB side 1 internet protocol address.
**Attribute Description:**
Internet protocol address of the side 1 Ethernet(R) interface board. This is the IP address the side 1 EIB receives on and the hub/far end transmit to. See s0eipad attribute description above for an explanation of how this attribute stores an IP address.

**Attribute:**
s0hipad
**Fullname:**
Hub side 0 internet protocol address.
**Attribute Description:**
Internet protocol address of the hub connected to the side 0 EIB. If provisioned, this is the hub IP address the side 0 EIB transmits to and the hub receives on. A provisioned IP address (and corresponding HW address in the s0hhwad[*] attributes) indicates the hub is managed or "smart" and supports Internet Control Message Protocol (ICMP) loop back/echo request functionality (also known as, "ping"). See s0eipad attribute description above for an explanation of how this attribute stores an IP address.

**Attribute:**
s1hipad
**Fullname:**
Hub side 1 internet protocol address.
**Attribute Description:**
Internet protocol address of the hub connected to the side 1 EIB. If provisioned, this is the hub IP address the side 1 EIB transmits to and the hub receives on. A provisioned IP address (and corresponding HW address in the s1hhwad[*] attributes) indicates the hub is managed or "smart" and supports Internet Control Message Protocol (ICMP) loop back/echo request functionality (also known as, "ping"). See s0eipad attribute description above for an explanation of how this attribute stores an IP address.

**Attribute:**
s0ehwad[*]

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**Fullname:**
EIB side 0 Ethernet(R) hardware address.
**Attribute Description:**
Ethernet(R) hardware address of the side 0 Ethernet(R) interface board. This is a 6 byte (48 bit) hardware address where hardware address bits 47-40 are stored in s0ehwad0, hardware address bits 39-32 are stored in s0ehwad1, etc, on down to hardware address bits 7-0 stored in s0ehwad5. Ethernet(R) hardware addresses, also referred to as physical or MAC (media access control) addresses, are typically specified as 6 colon-separated hexadecimal octets. For example, an s0ehwad[*] hardware address attribute value of { 0x08, 0x00, 0x20, 0x75, 0x8c, 0x0e } would be written as 08:00:20:75:8c:0e.

**Attribute:**
s1ehwad[*]
**Fullname:**
EIB side 1 Ethernet(R) hardware address.
**Attribute Description:**
Ethernet(R) hardware address of the side 1 Ethernet(R) interface board. The hardware address is populated as described above for the s0ehwad[*] attribute.

**Attribute:**
s0hhwad[*]
**Fullname:**
Hub side 0 Ethernet(R) hardware address.
**Attribute Description:**
Ethernet(R) hardware address of the hub connected to the side 0 EIB. If provisioned, the hardware address is populated as described above for the s0ehwad[*] attribute.

**Attribute:**
s1hhwad[*]
**Fullname:**
Hub side 1 Ethernet(R) hardware address.
**Attribute Description:**
Ethernet(R) hardware address of the hub connected to the side 1 EIB. If provisioned, the hardware address is populated as described above for the s0ehwad[*] attribute.

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# EPO_POS

## 1. Description

Enhanced professional office (EPO) position number to port mapping.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 15000 |
| expected tuples in relation | 300 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | ACDBRCS |
| relation type | DBSTATIC |
| ks key stored | AUTO |
| spare bits | 32l |

## 3. Field Layout

```
EPO_POS     relid = 2585  DBSTATIC   DBACC_CIND  DBPRAM    LP      ACDBRCS
     eponum      DMEPONUM     (ushort: 14)     <--- key, not stored
     lport       DMLPORT      (ushort: 16)
     module      DMMODULE     (ushort: 8)
         User and Compacted Tuple Layout    EPO_POS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |           eponum              |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                   |               |           |
  4 |              lport                |     module    |***********|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |***************************************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
     lport       DMLPORT      (ushort: 16)
     module      DMMODULE     (ushort: 8)
           Stored Tuple Layout      EPO_POS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                   |               |           |
  0 |              lport                |     module    |***********|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |***************************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLepo_pos

**Relation Description** Enhanced Professional Office positions
This relation contains Enhanced Professional Office (EPO) position number to port mapping information. It is used

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by RC and ODA when administering EPO position numbers. Also, it is used by office records when reporting on EPO position number assignments.

**Attribute: eponum**

**Fullname:** enhanced professional office position number

**Attribute Description** This attribute uniquely identifies an EPO position.

**Attribute: module**

**Fullname:** switching module

**Attribute Description** This attribute identifies the switching module where this EPO position is located.

**Attribute: lport**

**Fullname:** logical port name

**Attribute Description** This attribute identifies the logical port to which this EPO position is assigned.

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# EQC1_G

## 1. Description

This is a child storage table for the RC_EQLOC attributes.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected tuples | 500 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTORAGE |
| ks key store | DBNO |
| foldtype | DBGC31 |
| gkidxrel reverse index | rlEQC1_I |

## 3. Field Layout

```
EQC1_G      relid = 1684  DBSTORAGE  DBACC_GK    DBPRAM    LR      NULL
     gkEQC1_G    DMGK14       (ulong: 14)     <--- key, not stored
     picb        DMPICB       (ushort)
     sndpicb     DMPICB       (ushort)
     pidb        DMPIDB       (ushort)
     sndpidb     DMPIDB       (ushort)
     bay         DMSMBAY      (ushort: 10)
 (a) cab_ref     DMCABREF     (enum: 2)
 (b) com_shelf   DMBOOL       (enum: 1)
     risite      DMUNS10      (ushort: 10)
     vertpos     DMUNS8       (ushort: 8)
     aisle       DMCTXT4      (array [ 4 ] of char )
         User and Compacted Tuple Layout     EQC1_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkEQC1_G             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              picb             |            sndpicb            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |              pidb             |            sndpidb            |
    |---------------+---------------+---------------+---------------|
    |                   |   | |     |                   |           |
 12 |        bay        | a |b|*****|       risite      |***********|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
 16 |    vertpos    |                     aisle                     |
    | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - |
    |               |                                               |
 20 |     aisle     |***********************************************|
    |---------------+---------------+---------------+---------------|
      ( 24 bytes )
     picb        DMPICB       (ushort)
```

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```
    sndpicb     DMPICB       (ushort)
    pidb        DMPIDB       (ushort)
    sndpidb     DMPIDB       (ushort)
    bay         DMSMBAY      (ushort: 10)
(a) cab_ref     DMCABREF     (enum: 2)
(b) com_shelf   DMBOOL       (enum: 1)
    risite      DMUNS10      (ushort: 10)
    vertpos     DMUNS8       (ushort: 8)
    aisle       DMCTXT4      (array [ 4 ] of char )
          Stored Tuple Layout   EQC1_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                          GK LINK FIELD                        |
   |---------------+---------------+---------------+---------------|
   |                                 |                             |
 4 |               picb              |             sndpicb         |
   |---------------+---------------+---------------+---------------|
   |                                 |                             |
 8 |               pidb              |             sndpidb         |
   |---------------+---------------+---------------+---------------|
   |                     |   | |     |                   |         |
12 |         bay         | a |b|*****|       risite      |*********|
   |---------------+---------------+---------------+---------------|
   |                 |                                             |
16 |    vertpos      |                     aisle                   |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - |
   |                 |                                             |
20 |     aisle       |*********************************************|
   |---------------+---------------+---------------+---------------|
      ( 24 bytes )
```

## 4. Population Rules for RLeqc1_g

There are no population rules for this relation.

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# EQC2_G

## 1. Description

Child storage table for RC_EQLOC attributes.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected tupes | 500 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTORAGE |
| head table size | 1024 |
| data page size | 512 |
| page level | 2 |
| index length | 0 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel reverse index | rlEQC2_I |

## 3. Field Layout

```
EQC2_G      relid = 1686  DBSTORAGE  DBACC_GK    DBPRAM    LR      NULL
     gkEQC2_G    DMGK14       (ulong: 14)     <--- key, not stored
     mtb0_idx    DMCKTINDX    (ushort)
     mtb1_idx    DMCKTINDX    (ushort)
 (a) mtb0_msu    DMUNS1       (ushort: 1)
 (b) mtb1_msu    DMUNS1       (ushort: 1)
     mtb0        DMGCIRCUIT   (struct)
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
     mtb1        DMGCIRCUIT   (struct)
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
         User and Compacted Tuple Layout     EQC2_G
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkEQC2_G             |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  4 |            mtb0_idx             |            mtb1_idx           |
    |---------------+---------------+---------------+---------------|
    | | |                                                           |
  8 |a|b|***********************************************************|
    |===============+============  mtb0 ============+===============|
    |                                 |               |               |
 12 |            circuit              |***************|     module    |
    |===============+============  mtb1 ============+===============|
    |                                 |               |               |
 16 |            circuit              |***************|     module    |
    |===============+===============+===============+===============|
       ( 20 bytes )
```

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```
    mtb0_idx    DMCKTINDX    (ushort)
    mtb1_idx    DMCKTINDX    (ushort)
(a) mtb0_msu    DMUNS1       (ushort: 1)
(b) mtb1_msu    DMUNS1       (ushort: 1)
    mtb0        DMGCIRCUIT   (struct)
        circuit     DMCIRCUIT    (ushort)
        module      DMMODULE     (ushort: 8)
    mtb1        DMGCIRCUIT   (struct)
        circuit     DMCIRCUIT    (ushort)
        module      DMMODULE     (ushort: 8)
          Stored Tuple Layout   EQC2_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                          GK LINK FIELD                        |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |             mtb0_idx          |             mtb1_idx          |
   |---------------+---------------+---------------+---------------|
   | | |                                                           |
 8 |a|b|***********************************************************|
   |===============+============  mtb0 ============+===============|
   |                               |               |               |
12 |             circuit           |***************|     module    |
   |===============+============  mtb1 ============+===============|
   |                               |               |               |
16 |             circuit           |***************|     module    |
   |===============+===============+===============+===============|
      ( 20 bytes )
```

## 4. Population Rules for RLeqc2_g

There are no population rules for this relation.

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# EQLOC_R

## 1. Description

This is the root storage relation for RC_EQLOC. This relation contains the locations bay vertical position EQLS of SM equipment units.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3456 |
| expected tuples | 445 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTORAGE |
| density | 22 |

## 3. Field Layout

```
EQLOC_R     relid = 1688  DBSTORAGE  DBACC_DHSH  DBPRAM    LR      NULL


     gk1ptr      DMGK14       (ulong: 14)
     gk2ptr      DMGK14       (ulong: 14)
     im          DMMODULE     (ushort: 8)       <--- key
     unit_no     DMUNITNO     (ushort: 8)       <--- key
     unittype    DMUNITTYPE   (enum: 7) <--- key
 (a) service_group  DMUNS5       (ushort: 5)    <--- key
         User, Compacted and Stored Tuple Layout    EQLOC_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                             |                             |       |
  0 |           gk1ptr            |           gk2ptr            |*******|
    |---------------+---------------+---------------+---------------|
    |               |               |             |         |       |
  4 |       im      |    unit_no    |   unittype  |    a    |*******|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLeqloc_r

**Relation Description**

There are no population rules for this relation.

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# EQUIPDSL

## 1. Description

This relation associates a logical protocol handler (PH) number and PH member number to a port name.

Examples of PH port types are:
- DSL D-channel
- Data link terminal (DLT) port
- DSL nailedup B-channel for X.25 packet switching
- Interswitch Packet Trunks
- Inter-SM ports
- EDSL D-channel
- Speech handler (SH) channel
- Packet pipe (PP) channel

RLequipdsl is the inverse of relation RLdslequip. This is a 2-byte tuple relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10240 |
| expected number of tuples | 96 |
| density | 13 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | SMdslg_grw |
| insert trigger | DBYES |
| update trigger | DBNO |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| ks key store | AUTO |

## 3. Field Layout

```
EQUIPDSL    relid = 616   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     dsl_group   DMPHNBR      (uchar: 7)     <--- key, not stored
     member      DMPHCN       (uchar: 7)     <--- key, not stored
     dsl         DMPORT       (ushort)
         User and Compacted Tuple Layout   EQUIPDSL
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               | |             |                                 |
  0 |  dsl_group    |*|    member   |*********************************|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  4 |               dsl               |*********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     dsl         DMPORT       (ushort)
           Stored Tuple Layout     EQUIPDSL
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |               dsl               |*********************************|
```

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```
|---------------+---------------+---------------+---------------|
   ( 2 bytes )
```

## 4. Population Rules for RLequipdsl

**Relation Description** Logical protocol handler (PH) member port assignment.

This relation provides the logical PH port name assigned to the physical PH member number. This relation provides the DSL D port or the OSPS-EDSL D port assigned to the physical PH member number. It is the inverse of the relation RLdslequip.

Additional information which appeared on the english text poprule file:

```
DSL group assigned to a DSL.
Logical PH assigned to a DLT.
Logical PH assigned to a nailed-up B-channel.
Logical PH assigned to an inter-SM port.
Logical PH assigned to an interswitch packet trunk.
Logical PH assigned to an X.75' trunk.
DSL Group assignment to an EDSL.
DSL Group assignment to an OSPS-EDSL.
```

Quantity for tuples: 1 tuple for each equipped port. or equipped EDSL or equipped OSPS-EDSL For TR303 remote terminals (RTs) on IDCU, this relation will include mappings from PSU channel numbers to EOC and TMC ports on the RTs.

As of 5E9, XAT ports or lines with X.25 Packet Switching features will be assigned to PH3's or PH4's. X.25 Packet Switching will no longer be supported on the PH2 Access Image.

**Attribute: dsl_group**

**Fullname:** DSL group number

**Attribute Description** Populate with the DSL Group (0 to 79). The DSl group number is determined by the PH shelf number and PH number entered on the RC/V T1 PACKET SWITCH CHANNEL ASSIGNMENT view.

As of 5E9, XAT ports or lines with X.25 Packet Switching features will be assigned to PH3's or PH4's. X.25 Packet Switching will no longer be supported on the PH2 Access Image.

**Attribute: member**

**Fullname:** Physical PH channel number

**Attribute Description** Member can be 0,4,8,...(multiple of 4) for PH128.

If the port is an X.75, X.75' or IP trunk then the member must be 0 if the PH is of type PH2.

If the port is an X.75, X.75' or IP trunk and the PH is of type PH3 or PH4, then member may be (0,4,8...20) in even multiples of four as long as all members on a given PH3 or PH4 are of the same trunk level 2 profile and all of the ports are equipped on the same SM. It is recommended that a maximum of 4 X.75' or X.75 trunk members be assigned to a given PH3/PH4.

Hardware Conversion Note:
If the PH3/PH4 is to be converted to a PH2 only 1 member may be assigned to the PH3/PH4 and the 'member' attribute must equal 0 otherwise the conversion will be blocked!

**Attribute: dsl**

**Fullname:** Port name

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**Attribute Description** Must be in RLfc_porttyp.

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# ESCO

## 1. Description

This relation contains the Emergency Service Central Office (ESCO) number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 999 |
| expected number of tuples | 60 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| application | NULL |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
ESCO        relid = 1522  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     esco         DMESCO        (ushort: 10)     <--- key, not stored
     esn          DMESN         (ushort: 10)
     npd          DMNPD         (uchar: 2)
 (a) sel_rt_ind   DMBOOL        (enum: 1)
 (b) spr_bit1     DMBOOL        (enum: 1)
 (c) spr_bit2     DMBOOL        (enum: 1)
 (d) spr_bit3     DMBOOL        (enum: 1)
     spr_char     DMUCHAR       (uchar)
         User and Compacted Tuple Layout   ESCO
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  0 |         esco      |*******************************************|
    |---------------+---------------+---------------+---------------|
    |                   |   | | | | |               |               |
  4 |         esn       |npd|a|b|c|d|    spr_char   |***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     esn          DMESN         (ushort: 10)
     npd          DMNPD         (uchar: 2)
 (a) sel_rt_ind   DMBOOL        (enum: 1)
 (b) spr_bit1     DMBOOL        (enum: 1)
 (c) spr_bit2     DMBOOL        (enum: 1)
 (d) spr_bit3     DMBOOL        (enum: 1)
     spr_char     DMUCHAR       (uchar)
           Stored Tuple Layout     ESCO
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |   | | | | |               |               |
  0 |         esn       |npd|a|b|c|d|    spr_char   |***************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLesco

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**Relation Description** Emergency Service Central Office number
RLesco stores the ESCO, default ESN, NPD, and selective routing indicator used in an Enhanced 911 call. This relation is read on call originations and is used to retrieve selective routing information and selective transfer information from either the E911 Service Adjunct (ESA) or the GRSP/LRSP.

This static relation is used while routing Enhanced 911 calls only.

**Attribute: esco**

**Fullname:** Emergency Service Central Office number

**Attribute Description** ESCO is the key of this relation. It is used to retrieve the NPD, default ESN and sel_rt_ind

**Attribute: esn**

**Fullname:** Emergency Service Number

**Attribute Description** The ESN is used as a default ESN to read the routing data from relation RLesntran in the cases where the sel_rt_ind is set to DBNO. This attribute is mandatory and must be populated.

**Attribute: npd**

**Fullname:** Numbering Plan Digit

**Attribute Description** NPD represents the NPA of the E911 call originator It is outpulsed to the PSAP on terminations. This attribute is mandatory and must be populated.

**Attribute: sel_rt_ind**

**Fullname:** Selective routing indicator

**Attribute Description** Sel_rt_ind is used to specify if a query is to be sent to ESA to retrieve an ESN or use the default ESN from this relation. This attribute is mandatory and must be populated

**Attribute: spr_bit1**

**Fullname:** Spare bit 1

**Attribute Description** This spare bit will be used at a later time.

**Attribute: spr_bit2**

**Fullname:** Spare bit 2

**Attribute Description** This spare bit will be used at a later time.

**Attribute: spr_bit3**

**Fullname:** Spare bit 3

**Attribute Description** This spare bit will be used at a later time.

**Attribute: spr_char**

**Fullname:** Spare char

**Attribute Description** Spare char to be used at a later time.

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# ESN_MAP

## 1. Description

This reltion contains the Emergency Service Number Mapping (ESN_MAP).

Each bit is associated with an esn, eg. bit 0 in esnmap00 represents esn 0, bit 32 in esnmap01 represents esn 32, etc.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | DBNO |
| trigger function | RTesn_trig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
ESN_MAP     relid = 1525  DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP
 (a) dummy_key   DMBOOL       (enum: 1)     <--- key, not stored
     esnmap00    DMULONG      (ulong)
     esnmap01    DMULONG      (ulong)
     esnmap02    DMULONG      (ulong)
     esnmap03    DMULONG      (ulong)
     esnmap04    DMULONG      (ulong)
     esnmap05    DMULONG      (ulong)
     esnmap06    DMULONG      (ulong)
     esnmap07    DMULONG      (ulong)
     esnmap08    DMULONG      (ulong)
     esnmap09    DMULONG      (ulong)
     esnmap10    DMULONG      (ulong)
     esnmap11    DMULONG      (ulong)
     esnmap12    DMULONG      (ulong)
     esnmap13    DMULONG      (ulong)
     esnmap14    DMULONG      (ulong)
     esnmap15    DMULONG      (ulong)
     esnmap16    DMULONG      (ulong)
     esnmap17    DMULONG      (ulong)
     esnmap18    DMULONG      (ulong)
     esnmap19    DMULONG      (ulong)
     esnmap20    DMULONG      (ulong)
     esnmap21    DMULONG      (ulong)
     esnmap22    DMULONG      (ulong)
     esnmap23    DMULONG      (ulong)
     esnmap24    DMULONG      (ulong)
     esnmap25    DMULONG      (ulong)
     esnmap26    DMULONG      (ulong)
     esnmap27    DMULONG      (ulong)
```

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```
     esnmap28    DMULONG      (ulong)
     esnmap29    DMULONG      (ulong)
     esnmap30    DMULONG      (ulong)
     esnmap31    DMULONG      (ulong)
         User and Compacted Tuple Layout    ESN_MAP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | |                                                             |
  0 |a|*************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             esnmap00                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             esnmap01                          |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                                                               |
124 |                             esnmap30                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
128 |                             esnmap31                          |
    |---------------+---------------+---------------+---------------|
       ( 132 bytes )
     esnmap00    DMULONG      (ulong)
     esnmap01    DMULONG      (ulong)
     esnmap02    DMULONG      (ulong)
     esnmap03    DMULONG      (ulong)
     esnmap04    DMULONG      (ulong)
     esnmap05    DMULONG      (ulong)
     esnmap06    DMULONG      (ulong)
     esnmap07    DMULONG      (ulong)
     esnmap08    DMULONG      (ulong)
     esnmap09    DMULONG      (ulong)
     esnmap10    DMULONG      (ulong)
     esnmap11    DMULONG      (ulong)
     esnmap12    DMULONG      (ulong)
     esnmap13    DMULONG      (ulong)
     esnmap14    DMULONG      (ulong)
     esnmap15    DMULONG      (ulong)
     esnmap16    DMULONG      (ulong)
     esnmap17    DMULONG      (ulong)
     esnmap18    DMULONG      (ulong)
     esnmap19    DMULONG      (ulong)
     esnmap20    DMULONG      (ulong)
     esnmap21    DMULONG      (ulong)
     esnmap22    DMULONG      (ulong)
     esnmap23    DMULONG      (ulong)
     esnmap24    DMULONG      (ulong)
     esnmap25    DMULONG      (ulong)
```

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```
     esnmap26    DMULONG      (ulong)
     esnmap27    DMULONG      (ulong)
     esnmap28    DMULONG      (ulong)
     esnmap29    DMULONG      (ulong)
     esnmap30    DMULONG      (ulong)
     esnmap31    DMULONG      (ulong)
           Stored Tuple Layout      ESN_MAP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                            esnmap00                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            esnmap01                           |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                                                               |
120 |                            esnmap30                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
124 |                            esnmap31                           |
    |---------------+---------------+---------------+---------------|
       ( 128 bytes )
domain alESN_MAP  struct  (2 sub-attributes)
 (a)     dummy_key   .0fake
         (enum)          esnmap      .0.fake
         (array [ 32 ] of unsigned long )

         Structure Layout      alESN_MA
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | |                                                             |
  0 |a|*************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             esnmap                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             esnmap                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                    .
                                    .
                                    .
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
124 |                             esnmap                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
128 |                             esnmap                            |
```

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```
|---------------+---------------+---------------+---------------|
   ( 132 bytes )
```

## 4. Population Rules for RLesn_map

**Relation Description** Emergency Service Number Mapping
This relation is used as a bitmap for the corresponding ESNs in RLesntran. Each bit position on the bitmap should reflect that the corresponding ESN is either valid or invalid.

The bit value of ESN0 is always set to 0 and ESN0 is invalid ESN.

For every tuple inserted in RLesntran a corresponding bit should be set to 1 in this relation.
For every tuple deleted in RLesntran a corresponding bit should be set to 0 in this relation.

This is static relation used for e911 call.

**Attribute: dummy_key**

**Fullname:** This is the key

**Attribute Description** Since there will always be only one tuple in this relation, a key is not necessary. However, DB access primitives require that there be a key anyway. Thus, this attribute exists.

The domain of this attribute is DMBOOL and this attribute can assume only a value of DBYES.

**Attribute: esnmap00**

**Fullname:** esn bitmap 0

**Attribute Description** This attribute is used as bit map for esn0 thru esn31 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap01**

**Fullname:** esn bitmap 1

**Attribute Description** This attribute is used as bit map for esn32 thru esn63 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap02**

**Fullname:** esn bitmap 2

**Attribute Description** This attribute is used as bit map for esn64 thru esn95 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap03**

**Fullname:** esn bitmap 3

**Attribute Description** This attribute is used as bit map for esn96 thru esn127 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

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**Attribute: esnmap04**

**Fullname:** esn bitmap 4

**Attribute Description** This attribute is used as bit map for esn128 thru esn159 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap05**

**Fullname:** esn bitmap 5

**Attribute Description** This attribute is used as bit map for esn160 thru esn191 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap06**

**Fullname:** esn bitmap 6

**Attribute Description** This attribute is used as bit map for esn192 thru esn223 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap07**

**Fullname:** esn bitmap 7

**Attribute Description** This attribute is used as bit map for esn224 thru esn255 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap08**

**Fullname:** esn bitmap 8

**Attribute Description** This attribute is used as bit map for esn256 thru esn287 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap09**

**Fullname:** esn bitmap 9

**Attribute Description** This attribute is used as bit map for esn288 thru esn319 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap10**

**Fullname:** esn bitmap 10

**Attribute Description** This attribute is used as bit map for esn320 thru esn351 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap11**

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**Fullname:** esn bitmap 11

**Attribute Description** This attribute is used as bit map for esn352 thru esn383 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap12**

**Fullname:** esn bitmap 12

**Attribute Description** This attribute is used as bit map for esn384 thru esn415 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap13**

**Fullname:** esn bitmap 13

**Attribute Description** This attribute is used as bit map for esn416 thru esn447 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap14**

**Fullname:** esn bitmap 14

**Attribute Description** This attribute is used as bit map for esn448 thru esn479 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap15**

**Fullname:** esn bitmap 15

**Attribute Description** This attribute is used as bit map for esn480 thru esn511 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap16**

**Fullname:** esn bitmap 16

**Attribute Description** This attribute is used as bit map for esn512 thru esn543 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap17**

**Fullname:** esn bitmap 17

**Attribute Description** This attribute is used as bit map for esn544 thru esn575 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap18**

**Fullname:** esn bitmap 18

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**Attribute Description** This attribute is used as bit map for esn576 thru esn607 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap19**

**Fullname:** esn bitmap 19

**Attribute Description** This attribute is used as bit map for esn608 thru esn639 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap20**

**Fullname:** esn bitmap 20

**Attribute Description** This attribute is used as bit map for esn640 thru esn671 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap21**

**Fullname:** esn bitmap 21

**Attribute Description** This attribute is used as bit map for esn672 thru esn703 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap22**

**Fullname:** esn bitmap 22

**Attribute Description** This attribute is used as bit map for esn704 thru esn735 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap23**

**Fullname:** esn bitmap 23

**Attribute Description** This attribute is used as bit map for esn736 thru esn767 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap24**

**Fullname:** esn bitmap 24

**Attribute Description** This attribute is used as bit map for esn768 thru esn799 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap25**

**Fullname:** esn bitmap 25

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**Attribute Description** This attribute is used as bit map for esn800 thru esn831 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap26**

**Fullname:** esn bitmap 26

**Attribute Description** This attribute is used as bit map for esn832 thru esn863 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap27**

**Fullname:** esn bitmap 27

**Attribute Description** This attribute is used as bit map for esn864 thru esn895 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap28**

**Fullname:** esn bitmap 28

**Attribute Description** This attribute is used as bit map for esn896 thru esn927 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap29**

**Fullname:** esn bitmap 29

**Attribute Description** This attribute is used as bit map for esn928 thru esn959 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap30**

**Fullname:** esn bitmap 30

**Attribute Description** This attribute is used as bit map for esn960 thru esn991 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

**Attribute: esnmap31**

**Fullname:** esn bitmap 31

**Attribute Description** This attribute is used as bit map for esn992 thru esn1023 There is 1 bit for each of the 32 ESNs.

Bit value: 1 = valid, 0 = invalid.

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# ESNTRAN

## 1. Description

This relation contains the Emergency Service Number Translation (ESNTRAN).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1023 |
| expected tuples in relation | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
ESNTRAN     relid = 1523  DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP
     esn          DMESN         (ushort: 10)     <--- key
 (a) flash_ind    DMBOOL        (enum: 1)
 (b) spr_bit1     DMBOOL        (enum: 1)
 (c) spr_bit2     DMBOOL        (enum: 1)
 (d) spr_bit3     DMBOOL        (enum: 1)
 (e) spr_bit4     DMBOOL        (enum: 1)
 (f) spr_bit5     DMBOOL        (enum: 1)
     spr_short    DMUSHORT      (ushort)
     pri_psap     DMBCD_DN      (struct)
         dn0          DMUNS4        (ushort: 4)
         dn1          DMUNS4        (ushort: 4)
         dn2          DMUNS4        (ushort: 4)
         dn3          DMUNS4        (ushort: 4)
         dn4          DMUNS4        (ushort: 4)
         dn5          DMUNS4        (ushort: 4)
         dn6          DMUNS4        (ushort: 4)
         dn7          DMUNS4        (ushort: 4)
         dn8          DMUNS4        (ushort: 4)
         dn9          DMUNS4        (ushort: 4)
         dn10         DMUNS4        (ushort: 4)
         dn11         DMUNS4        (ushort: 4)
         dn12         DMUNS4        (ushort: 4)
         dn13         DMUNS4        (ushort: 4)
         dn14         DMUNS4        (ushort: 4)
         digcnt       DMDIGCNT      (uchar: 4)
     alt1_psap    DMBCD_DN      (struct)
         dn0          DMUNS4        (ushort: 4)
         dn1          DMUNS4        (ushort: 4)
         dn2          DMUNS4        (ushort: 4)
         dn3          DMUNS4        (ushort: 4)
         dn4          DMUNS4        (ushort: 4)
         dn5          DMUNS4        (ushort: 4)
         dn6          DMUNS4        (ushort: 4)
         dn7          DMUNS4        (ushort: 4)
         dn8          DMUNS4        (ushort: 4)
         dn9          DMUNS4        (ushort: 4)
```

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```
    dn10        DMUNS4       (ushort: 4)
    dn11        DMUNS4       (ushort: 4)
    dn12        DMUNS4       (ushort: 4)
    dn13        DMUNS4       (ushort: 4)
    dn14        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
alt2_psap   DMBCD_DN     (struct)
    dn0         DMUNS4       (ushort: 4)
    dn1         DMUNS4       (ushort: 4)
    dn2         DMUNS4       (ushort: 4)
    dn3         DMUNS4       (ushort: 4)
    dn4         DMUNS4       (ushort: 4)
    dn5         DMUNS4       (ushort: 4)
    dn6         DMUNS4       (ushort: 4)
    dn7         DMUNS4       (ushort: 4)
    dn8         DMUNS4       (ushort: 4)
    dn9         DMUNS4       (ushort: 4)
    dn10        DMUNS4       (ushort: 4)
    dn11        DMUNS4       (ushort: 4)
    dn12        DMUNS4       (ushort: 4)
    dn13        DMUNS4       (ushort: 4)
    dn14        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
selxfer1    DMBCD_DN     (struct)
    dn0         DMUNS4       (ushort: 4)
    dn1         DMUNS4       (ushort: 4)
    dn2         DMUNS4       (ushort: 4)
    dn3         DMUNS4       (ushort: 4)
    dn4         DMUNS4       (ushort: 4)
    dn5         DMUNS4       (ushort: 4)
    dn6         DMUNS4       (ushort: 4)
    dn7         DMUNS4       (ushort: 4)
    dn8         DMUNS4       (ushort: 4)
    dn9         DMUNS4       (ushort: 4)
    dn10        DMUNS4       (ushort: 4)
    dn11        DMUNS4       (ushort: 4)
    dn12        DMUNS4       (ushort: 4)
    dn13        DMUNS4       (ushort: 4)
    dn14        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
selxfer2    DMBCD_DN     (struct)
    dn0         DMUNS4       (ushort: 4)
    dn1         DMUNS4       (ushort: 4)
    dn2         DMUNS4       (ushort: 4)
    dn3         DMUNS4       (ushort: 4)
    dn4         DMUNS4       (ushort: 4)
    dn5         DMUNS4       (ushort: 4)
    dn6         DMUNS4       (ushort: 4)
    dn7         DMUNS4       (ushort: 4)
    dn8         DMUNS4       (ushort: 4)
    dn9         DMUNS4       (ushort: 4)
    dn10        DMUNS4       (ushort: 4)
    dn11        DMUNS4       (ushort: 4)
    dn12        DMUNS4       (ushort: 4)
```

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```
    dn13        DMUNS4       (ushort: 4)
    dn14        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
selxfer3    DMBCD_DN     (struct)
    dn0         DMUNS4       (ushort: 4)
    dn1         DMUNS4       (ushort: 4)
    dn2         DMUNS4       (ushort: 4)
    dn3         DMUNS4       (ushort: 4)
    dn4         DMUNS4       (ushort: 4)
    dn5         DMUNS4       (ushort: 4)
    dn6         DMUNS4       (ushort: 4)
    dn7         DMUNS4       (ushort: 4)
    dn8         DMUNS4       (ushort: 4)
    dn9         DMUNS4       (ushort: 4)
    dn10        DMUNS4       (ushort: 4)
    dn11        DMUNS4       (ushort: 4)
    dn12        DMUNS4       (ushort: 4)
    dn13        DMUNS4       (ushort: 4)
    dn14        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
selxfer4    DMBCD_DN     (struct)
    dn0         DMUNS4       (ushort: 4)
    dn1         DMUNS4       (ushort: 4)
    dn2         DMUNS4       (ushort: 4)
    dn3         DMUNS4       (ushort: 4)
    dn4         DMUNS4       (ushort: 4)
    dn5         DMUNS4       (ushort: 4)
    dn6         DMUNS4       (ushort: 4)
    dn7         DMUNS4       (ushort: 4)
    dn8         DMUNS4       (ushort: 4)
    dn9         DMUNS4       (ushort: 4)
    dn10        DMUNS4       (ushort: 4)
    dn11        DMUNS4       (ushort: 4)
    dn12        DMUNS4       (ushort: 4)
    dn13        DMUNS4       (ushort: 4)
    dn14        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
selxfer5    DMBCD_DN     (struct)
    dn0         DMUNS4       (ushort: 4)
    dn1         DMUNS4       (ushort: 4)
    dn2         DMUNS4       (ushort: 4)
    dn3         DMUNS4       (ushort: 4)
    dn4         DMUNS4       (ushort: 4)
    dn5         DMUNS4       (ushort: 4)
    dn6         DMUNS4       (ushort: 4)
    dn7         DMUNS4       (ushort: 4)
    dn8         DMUNS4       (ushort: 4)
    dn9         DMUNS4       (ushort: 4)
    dn10        DMUNS4       (ushort: 4)
    dn11        DMUNS4       (ushort: 4)
    dn12        DMUNS4       (ushort: 4)
    dn13        DMUNS4       (ushort: 4)
    dn14        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
```

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```
 selxfer6    DMBCD_DN     (struct)
     dn0         DMUNS4       (ushort: 4)
     dn1         DMUNS4       (ushort: 4)
     dn2         DMUNS4       (ushort: 4)
     dn3         DMUNS4       (ushort: 4)
     dn4         DMUNS4       (ushort: 4)
     dn5         DMUNS4       (ushort: 4)
     dn6         DMUNS4       (ushort: 4)
     dn7         DMUNS4       (ushort: 4)
     dn8         DMUNS4       (ushort: 4)
     dn9         DMUNS4       (ushort: 4)
     dn10        DMUNS4       (ushort: 4)
     dn11        DMUNS4       (ushort: 4)
     dn12        DMUNS4       (ushort: 4)
     dn13        DMUNS4       (ushort: 4)
     dn14        DMUNS4       (ushort: 4)
     digcnt      DMDIGCNT     (uchar: 4)
     User, Compacted and Stored Tuple Layout    ESNTRAN
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                 | | | | | | |                               |
 0 |        esn      |a|b|c|d|e|f|          spr_short            |
   |===============+=========  pri_psap =========+===============|
   |       |       |       |       |       |       |       |       |
 4 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 8 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+========= alt1_psap =========+===============|
   |       |       |       |       |       |       |       |       |
12 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
16 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+========= alt2_psap =========+===============|
   |       |       |       |       |       |       |       |       |
20 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
24 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+=========  selxfer1 =========+===============|
   |       |       |       |       |       |       |       |       |
28 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
32 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+=========  selxfer2 =========+===============|
   |       |       |       |       |       |       |       |       |
36 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
40 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+=========  selxfer3 =========+===============|
```

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```
    |       |       |       |       |       |       |       |       |
 44 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
 48 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+==========  selxfer4 ==========+===============|
    |       |       |       |       |       |       |       |       |
 52 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
 56 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+==========  selxfer5 ==========+===============|
    |       |       |       |       |       |       |       |       |
 60 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
 64 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+==========  selxfer6 ==========+===============|
    |       |       |       |       |       |       |       |       |
 68 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
 72 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+===============+===============+===============|
      ( 76 bytes )
domain alESNTRA   struct  (10 sub-attributes)

         esn          .17.fake     (ushort: 10)
(a)      flash_ind    .1fake       (enum)
(b)      spr_bit1    .1fake       (enum)
(c)      spr_bit2     .1fake       (enum)
(d)      spr_bit3    .1fake       (enum)
(e)      spr_bit4     .1fake       (enum)
(f)      spr_bit5    .1fake       (enum)
         spr_short    unsigned short (ushort)
         psap        .18.fake     (array [ 3 ] of  .0fake )
 dn0          .0.fake      (ushort: 4)
 dn1           .1.fake      (ushort: 4)
 dn2          .2.fake      (ushort:  4)
 dn3          .3.fake      (ushort: 4)
 dn4           .4.fake      (ushort: 4)
 dn5          .5.fake      (ushort:  4)
 dn6          .6.fake      (ushort: 4)
 dn7           .7.fake      (ushort: 4)
 dn8          .8.fake      (ushort:  4)
 dn9          .9.fake      (ushort: 4)
 dn10          .10.fake     (ushort: 4)
 dn11         .11.fake     (ushort:  4)
 dn12         .12.fake     (ushort: 4)
 dn13          .13.fake     (ushort: 4)
 dn14         .14.fake     (ushort:  4)
 digcnt       .15.fake     (uchar: 4)
 selxfer      .19.fake      (array [ 6 ] of .0fake )
 dn0          .0.fake      (ushort:  4)
```

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```
dn1          .1.fake      (ushort: 4)
dn2           .2.fake      (ushort: 4)
dn3          .3.fake      (ushort:  4)
dn4          .4.fake      (ushort: 4)
dn5           .5.fake      (ushort: 4)
dn6          .6.fake      (ushort:  4)
dn7          .7.fake      (ushort: 4)
dn8           .8.fake      (ushort: 4)
dn9          .9.fake      (ushort:  4)
dn10         .10.fake     (ushort: 4)
dn11          .11.fake     (ushort: 4)
dn12         .12.fake     (ushort:  4)
dn13         .13.fake     (ushort: 4)
dn14          .14.fake     (ushort: 4)
digcnt       .15.fake     (uchar:  4)
        Structure Layout      alESNTRA
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                   | | | | | | |                               |
 0 |        esn        |a|b|c|d|e|f|           spr_shor            |
   |===============+=========== psap[0] ===========+===============|
   |       |       |       |       |       |       |       |       |
 4 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 8 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+=========== psap[1] ===========+===============|
   |       |       |       |       |       |       |       |       |
12 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
16 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+=========== psap[2] ===========+===============|
   |       |       |       |       |       |       |       |       |
20 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
24 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+=========  selxfer[0] =========+===============|
   |       |       |       |       |       |       |       |       |
28 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
32 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+=========  selxfer[1] =========+===============|
   |       |       |       |       |       |       |       |       |
36 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
40 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+=========  selxfer[2] =========+===============|
   |       |       |       |       |       |       |       |       |
44 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
```

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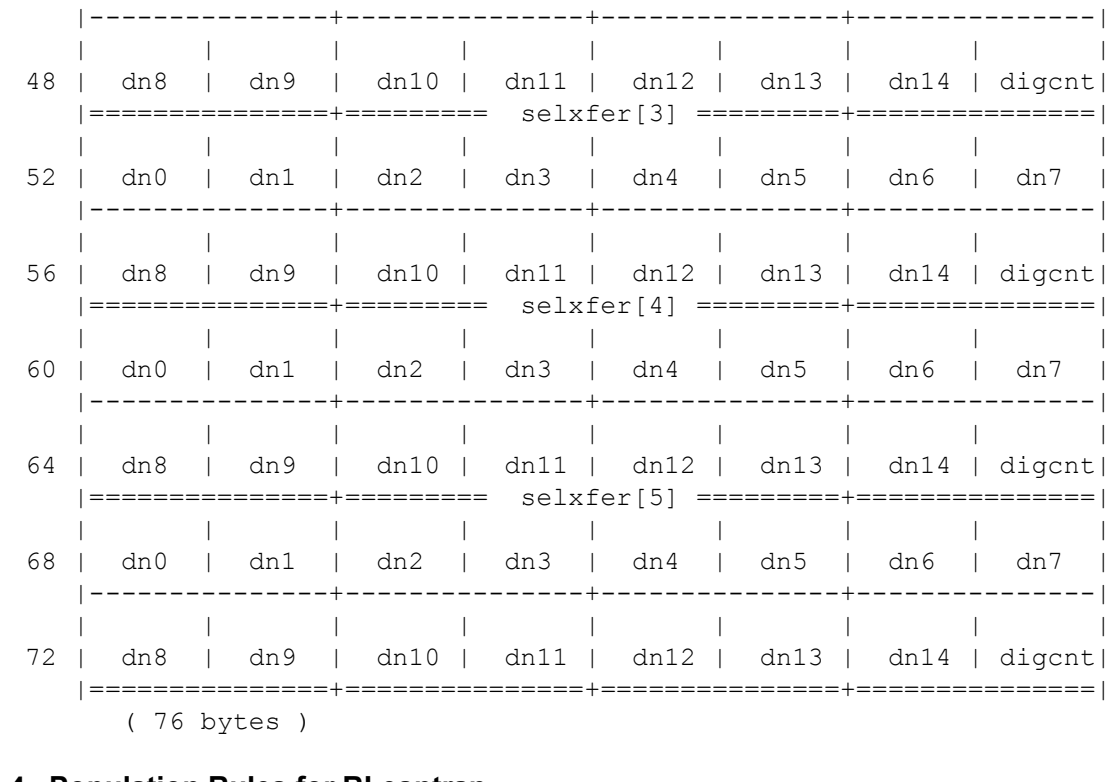

( 76 bytes )

## 4. Population Rules for RLesntran

**Relation Description** Emergency Service Number Translation
The relation RLesntran is used to translate an ESN to the following: Primary PSAP number, 2 Alternate PSAP numbers, a flash indicator and 6 selective transfer numbers.

This static relation is used while routing an Enhanced 911 call.

**Attribute: esn**

**Fullname:** Emergency Service Number

**Attribute Description** The ESN is used as the key to this relation. This ESN is translated into a primary PSAP telephone number, 2 alternate PSAP telephone numbers, a flash indicator and 6 selective transfer telephone numbers.

**Attribute: flash_ind**

**Fullname:** Flash indicator

**Attribute Description** The flash_ind will be used to indicate if the NPD and caller's number (ANI) will be flashed at the PSAP terminal. This flashing will tell the PSAP that the call may require special attention/ handling.

**Attribute: spr_bit1**

**Fullname:** Spare bit 1

**Attribute Description** This is a spare bit to be used at a later time.

**Attribute: spr_bit2**

**Fullname:** Spare bit 2

**Attribute Description** This is a spare bit to be used at a later time.

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**Attribute: spr_bit3**
**Fullname:** Spare bit 3

**Attribute Description** This is a spare bit to be used at a later time.

**Attribute: spr_bit4**
**Fullname:** Spare bit 4

**Attribute Description** This is a spare bit to be used at a later time.

**Attribute: spr_bit5**
**Fullname:** Spare bit 5

**Attribute Description** This is a spare bit to be used at a later time.

**Attribute: spr_short**
**Fullname:** Spare short

**Attribute Description** This is a spare short to be used at a later time.

**Attribute: pri_psap**
**Fullname:** Primary Public Safety Answering Point telephone number

**Attribute Description** This Primary PSAP telephone number is first used to route the 911 call. It contains a psap telephone number and has a digit count specifying the total number of digits. The digits are stored in order with the first digit (leftmost) stored in digit 0 of the structure, and the second digit in digit 1 of the structure, etc. This field is mandatory and must be populated. It can only contain a 7 or 10 digit DN.

**Attribute: pri_psap.dn0**
**Fullname:** Digit number 0

**Attribute Description** This is the first digit of the primary PSAP telephone number.

**Attribute: pri_psap.dn1**
**Fullname:** Digit number 1

**Attribute Description** This is the second digit of the primary PSAP telephone number.

**Attribute: pri_psap.dn2**
**Fullname:** Digit number 2

**Attribute Description** This is the third digit of the primary PSAP telephone number.

**Attribute: pri_psap.dn3**
**Fullname:** Digit number 3

**Attribute Description** This is the forth digit of the primary PSAP telephone number.

**Attribute: pri_psap.dn4**
**Fullname:** Digit number 4

**Attribute Description** This is the fifth digit of the primary PSAP telephone number.

**Attribute: pri_psap.dn5**
**Fullname:** Digit number 5

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**Attribute Description** This is the sixth digit of the primary PSAP telephone number.

**Attribute: pri_psap.dn6**
**Fullname:** Digit number 6

**Attribute Description** This is the seventh digit of the primary PSAP telephone number.

**Attribute: pri_psap.dn7**
**Fullname:** Digit number 7

**Attribute Description** This is the eigth digit of the primary PSAP telephone number.

**Attribute: pri_psap.dn8**
**Fullname:** Digit number 8

**Attribute Description** This is the ninth digit of the primary PSAP telephone number.

**Attribute: pri_psap.dn9**
**Fullname:** Digit number 9

**Attribute Description** This is the tenth digit of the primary PSAP telephone number.

**Attribute: pri_psap.dn10**
**Fullname:** Digit number 10

**Attribute Description** This is the eleventh digit of the digit structure.

**Attribute: pri_psap.dn11**
**Fullname:** Digit number 11

**Attribute Description** This is the twelfth digit of the digit structure.

**Attribute: pri_psap.dn12**
**Fullname:** Digit number 12

**Attribute Description** This is the thirteenth digit of the digit structure.

**Attribute: pri_psap.dn13**
**Fullname:** Digit number 13

**Attribute Description** This is the fourteenth digit of the digit structure.

**Attribute: pri_psap.dn14**
**Fullname:** Digit number 14

**Attribute Description** This is the fifteenth digit of the digit structure.

**Attribute: pri_psap.digcnt**
**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the PSAP telephone number.

**Attribute: alt1_psap**
**Fullname:** First alternate PSAP telephone number.

**Attribute Description** This First alternate telephone number is used to route the 911 call in the

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event that the primary PSAP TN routing failed. It contains a psap telephone number and has a digit count specifying the total number of digits. The digits are stored in order with the first digit (leftmost) stored in digit 0 of the structure, and the second digit in digit 1 of the structure, etc. This field is mandatory and must be populated. It can only contain a 7 or 10 digit DN.

**Attribute: alt1_psap.dn0**
**Fullname:** Digit number 0

**Attribute Description** This is the first digit of the first alternate PSAP telephone number.

**Attribute: alt1_psap.dn1**
**Fullname:** Digit number 1

**Attribute Description** This is the second digit of the first alternate PSAP telephone number.

**Attribute: alt1_psap.dn2**
**Fullname:** Digit number 2

**Attribute Description** This is the third digit of the first alternate PSAP telephone number.

**Attribute: alt1_psap.dn3**
**Fullname:** Digit number 3

**Attribute Description** This is the forth digit of the first alternate PSAP telephone number.

**Attribute: alt1_psap.dn4**
**Fullname:** Digit number 4

**Attribute Description** This is the fifth digit of the first alternate PSAP telephone number.

**Attribute: alt1_psap.dn5**
**Fullname:** Digit number 5

**Attribute Description** This is the sixth digit of the first alternate PSAP telephone number.

**Attribute: alt1_psap.dn6**
**Fullname:** Digit number 6

**Attribute Description** This is the seventh digit of the first alternate PSAP telephone number.

**Attribute: alt1_psap.dn7**
**Fullname:** Digit number 7

**Attribute Description** This is the eigth digit of the first alternate PSAP telephone number.

**Attribute: alt1_psap.dn8**
**Fullname:** Digit number 8

**Attribute Description** This is the ninth digit of the first alternate PSAP telephone number.

**Attribute: alt1_psap.dn9**
**Fullname:** Digit number 9

**Attribute Description** This is the tenth digit of the first alternate PSAP telephone number.

**Attribute: alt1_psap.dn10**

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**Fullname:** Digit number 10

**Attribute Description** This is the eleventh digit of the digit structure.

**Attribute: alt1_psap.dn11**
**Fullname:** Digit number 11

**Attribute Description** This is the twelfth digit of the digit structure.

**Attribute: alt1_psap.dn12**
**Fullname:** Digit number 12

**Attribute Description** This is the thirteenth digit of the digit structure.

**Attribute: alt1_psap.dn13**
**Fullname:** Digit number 13

**Attribute Description** This is the fourteenth digit of the digit structure.

**Attribute: alt1_psap.dn14**
**Fullname:** Digit number 14

**Attribute Description** This is the fifteenth digit of the digit structure.

**Attribute: alt1_psap.digcnt**
**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the PSAP telephone number.

**Attribute: alt2_psap**
**Fullname:** Second alternate PSAP telephone number

**Attribute Description** This Second alternate PSAP telephone number is used to route the 911 call in the event that the primary PSAP TN and the first alternate PSAP TN routing failed. It contains a psap telephone number and has a digit count specifying the total number of digits. The digits are stored in order with the first digit (leftmost) stored in digit 0 of the structure, and the second digit in digit 1 of the structure, etc. This field is not mandatory. It can only contain 0, 7, or 10 digits.

**Attribute: alt2_psap.dn0**
**Fullname:** Digit number 0

**Attribute Description** This is the first digit of the second alternate PSAP telephone number.

**Attribute: alt2_psap.dn1**
**Fullname:** Digit number 1

**Attribute Description** This is the second digit of the second alternate PSAP telephone number.

**Attribute: alt2_psap.dn2**
**Fullname:** Digit number 2

**Attribute Description** This is the third digit of the second alternate PSAP telephone number.

**Attribute: alt2_psap.dn3**
**Fullname:** Digit number 3

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**Attribute Description** This is the forth digit of the second alternate PSAP telephone number.

**Attribute: alt2_psap.dn4**
**Fullname:** Digit number 4

**Attribute Description** This is the fifth digit of the second alternate PSAP telephone number.

**Attribute: alt2_psap.dn5**
**Fullname:** Digit number 5

**Attribute Description** This is the sixth digit of the second alternate PSAP telephone number.

**Attribute: alt2_psap.dn6**
**Fullname:** Digit number 6

**Attribute Description** This is the seventh digit of the second alternate PSAP telephone number.

**Attribute: alt2_psap.dn7**
**Fullname:** Digit number 7

**Attribute Description** This is the eigth digit of the second alternate PSAP telephone number.

**Attribute: alt2_psap.dn8**
**Fullname:** Digit number 8

**Attribute Description** This is the ninth digit of the second alternate PSAP telephone number.

**Attribute: alt2_psap.dn9**
**Fullname:** Digit number 9

**Attribute Description** This is the tenth digit of the second alternate PSAP telephone number.

**Attribute: alt2_psap.dn10**
**Fullname:** Digit number 10

**Attribute Description** This is the eleventh digit of the digit structure.

**Attribute: alt2_psap.dn11**
**Fullname:** Digit number 11

**Attribute Description** This is the twelfth digit of the digit structure.

**Attribute: alt2_psap.dn12**
**Fullname:** Digit number 12

**Attribute Description** This is the thirteenth digit of the digit structure.

**Attribute: alt2_psap.dn13**
**Fullname:** Digit number 13

**Attribute Description** This is the fourteenth digit of the digit structure.

**Attribute: alt2_psap.dn14**
**Fullname:** Digit number 14

**Attribute Description** This is the fifteenth digit of the digit structure.

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**Attribute: alt2_psap.digcnt**

**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the PSAP telephone number.

**Attribute: selxfer1**

**Fullname:** Selective transfer number 1

**Attribute Description** This is the first selective transfer telephone number. It is used by the PSAPs to do a selective call transfer It contains a selective transfer telephone number but is not mandatory. It also has a digit count specifying the total number of digits. The digits are stored in order with the first digit (leftmost) stored in digit 0 of the structure, and the second digit in digit 1 of the structure, etc. This field is not mandatory. It can contain 0 to 15 digits.

**Attribute: selxfer1.dn0**

**Fullname:** Digit number 0

**Attribute Description** This is the first digit of the first selective transfer telephone number.

**Attribute: selxfer1.dn1**

**Fullname:** Digit number 1

**Attribute Description** This is the second digit of the first selective transfer telephone number.

**Attribute: selxfer1.dn2**

**Fullname:** Digit number 2

**Attribute Description** This is the third digit of the first selective transfer telephone number.

**Attribute: selxfer1.dn3**

**Fullname:** Digit number 3

**Attribute Description** This is the forth digit of the first selective transfer telephone number.

**Attribute: selxfer1.dn4**

**Fullname:** Digit number 4

**Attribute Description** This is the fifth digit of the first selective transfer telephone number.

**Attribute: selxfer1.dn5**

**Fullname:** Digit number 5

**Attribute Description** This is the sixth digit of the first selective transfer telephone number.

**Attribute: selxfer1.dn6**

**Fullname:** Digit number 6

**Attribute Description** This is the seventh digit of the first selective transfer telephone number.

**Attribute: selxfer1.dn7**

**Fullname:** Digit number 7

**Attribute Description** This is the eigth digit of the first selective transfer telephone number.

**Attribute: selxfer1.dn8**

**Fullname:** Digit number 8

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**Attribute Description** This is the ninth digit of the first selective transfer telephone number.

**Attribute: selxfer1.dn9**
**Fullname:** Digit number 9

**Attribute Description** This is the tenth digit of the first selective transfer telephone number.

**Attribute: selxfer1.dn10**
**Fullname:** Digit number 10

**Attribute Description** This is the eleventh digit of the digit structure .

**Attribute: selxfer1.dn11**
**Fullname:** Digit number 11

**Attribute Description** This is the twelfth digit of the digit structure .

**Attribute: selxfer1.dn12**
**Fullname:** Digit number 12

**Attribute Description** This is the thirteenth digit of the digit structure .

**Attribute: selxfer1.dn13**
**Fullname:** Digit number 13

**Attribute Description** This is the fourteenth digit of the digit structure .

**Attribute: selxfer1.dn14**
**Fullname:** Digit number 14

**Attribute Description** This is the fifteenth digit of the digit structure .

**Attribute: selxfer1.digcnt**
**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the first selective call transfer telephone number.

**Attribute: selxfer2**
**Fullname:** Selective transfer number 2

**Attribute Description** This is the second selective transfer telephone number. It is used by the PSAPs to do a selective call transfer. It contains a selective transfer telephone number but is not mandatory. It also has a digit count specifying the total number of digits. The digits are stored in order with the first digit (leftmost) stored in digit 0 of the structure, and the second digit in digit 1 of the structure, etc. This field is not mandatory. It can contain 0 to 15 digits.

**Attribute: selxfer2.dn0**
**Fullname:** Digit number 0

**Attribute Description** This is the first digit of the second selective transfer telephone number.

**Attribute: selxfer2.dn1**
**Fullname:** Digit number 1

**Attribute Description** This is the second digit of the second selective transfer telephone number.

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**Attribute: selxfer2.dn2**
**Fullname:** Digit number 2

**Attribute Description** This is the third digit of the second selective transfer telephone number.

**Attribute: selxfer2.dn3**
**Fullname:** Digit number 3

**Attribute Description** This is the forth digit of the second selective transfer telephone number.

**Attribute: selxfer2.dn4**
**Fullname:** Digit number 4

**Attribute Description** This is the fifth digit of the second selective transfer telephone number.

**Attribute: selxfer2.dn5**
**Fullname:** Digit number 5

**Attribute Description** This is the sixth digit of the second selective transfer telephone number.

**Attribute: selxfer2.dn6**
**Fullname:** Digit number 6

**Attribute Description** This is the seventh digit of the second selective transfer telephone number.

**Attribute: selxfer2.dn7**
**Fullname:** Digit number 7

**Attribute Description** This is the eigth digit of the second selective transfer telephone number.

**Attribute: selxfer2.dn8**
**Fullname:** Digit number 8

**Attribute Description** This is the ninth digit of the second selective transfer telephone number.

**Attribute: selxfer2.dn9**
**Fullname:** Digit number 9

**Attribute Description** This is the tenth digit of the second selective transfer telephone number.

**Attribute: selxfer2.dn10**
**Fullname:** Digit number 10

**Attribute Description** This is the eleventh digit of the digit structure.

**Attribute: selxfer2.dn11**
**Fullname:** Digit number 11

**Attribute Description** This is the twelfth digit of the digit structure.

**Attribute: selxfer2.dn12**
**Fullname:** Digit number 12

**Attribute Description** This is the thirteenth digit of the digit structure.

**Attribute: selxfer2.dn13**

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**Fullname:** Digit number 13

**Attribute Description** This is the fourteenth digit of the digit structure.

**Attribute: selxfer2.dn14**

**Fullname:** Digit number 14

**Attribute Description** This is the fifteenth digit of the digit structure.

**Attribute: selxfer2.digcnt**

**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the second selective transfer telephone number.

**Attribute: selxfer3**

**Fullname:** Selective Call transfer number 3

**Attribute Description** This is the third selective transfer telephone number. It is used by the PSAPs to do a selective call transfer. It contains a selective transfer telephone number but is not mandatory. It also has a digit count specifying the total number of digits. The digits are stored in order with the first digit (leftmost) stored in digit 0 of the structure, and the second digit in digit 1 of the structure, etc. This field is not mandatory. It can contain 0 to 15 digits.

**Attribute: selxfer3.dn0**

**Fullname:** Digit number 0

**Attribute Description** This is the first digit of the third selective transfer telephone number.

**Attribute: selxfer3.dn1**

**Fullname:** Digit number 1

**Attribute Description** This is the second digit of the third selective transfer telephone number.

**Attribute: selxfer3.dn2**

**Fullname:** Digit number 2

**Attribute Description** This is the third digit of the third selective transfer telephone number.

**Attribute: selxfer3.dn3**

**Fullname:** Digit number 3

**Attribute Description** This is the forth digit of the third selective transfer telephone number.

**Attribute: selxfer3.dn4**

**Fullname:** Digit number 4

**Attribute Description** This is the fifth digit of the third selective transfer telephone number.

**Attribute: selxfer3.dn5**

**Fullname:** Digit number 5

**Attribute Description** This is the sixth digit of the third selective transfer telephone number.

**Attribute: selxfer3.dn6**

**Fullname:** Digit number 6

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**Attribute Description** This is the seventh digit of the third selective transfer telephone number.

**Attribute: selxfer3.dn7**
**Fullname:** Digit number 7

**Attribute Description** This is the eigth digit of the third selective transfer telephone number.

**Attribute: selxfer3.dn8**
**Fullname:** Digit number 8

**Attribute Description** This is the ninth digit of the third selective transfer telephone number.

**Attribute: selxfer3.dn9**
**Fullname:** Digit number 9

**Attribute Description** This is the tenth digit of the third selective transfer telephone number.

**Attribute: selxfer3.dn10**
**Fullname:** Digit number 10

**Attribute Description** This is the eleventh digit of the digit structure.

**Attribute: selxfer3.dn11**
**Fullname:** Digit number 11

**Attribute Description** This is the twelfth digit of the digit structure.

**Attribute: selxfer3.dn12**
**Fullname:** Digit number 12

**Attribute Description** This is the thirteenth digit of the digit structure.

**Attribute: selxfer3.dn13**
**Fullname:** Digit number 13

**Attribute Description** This is the fourteenth digit of the digit structure.

**Attribute: selxfer3.dn14**
**Fullname:** Digit number 14

**Attribute Description** This is the fifteenth digit of the digit structure.

**Attribute: selxfer3.digcnt**
**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the third selective transfer telephone number.

**Attribute: selxfer4**
**Fullname:** Selective transfer number 4

**Attribute Description** This is the forth selective transfer telephone number. It is used by the PSAPs to do a selective call transfer. It contains a selective transfer telephone number but is not mandatory. It also has a digit count specifying the total number of digits. The digits are stored in order with the first digit (leftmost) stored in digit 0 of the structure, and the second digit in digit 1 of the structure, etc. This field is not mandatory. It can contain 0 to 15 digits.

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**Attribute: selxfer4.dn0**
**Fullname:** Digit number 0

**Attribute Description** This is the first digit of the forth selective transfer telephone number.

**Attribute: selxfer4.dn1**
**Fullname:** Digit number 1

**Attribute Description** This is the second digit of the forth selective transfer telephone number.

**Attribute: selxfer4.dn2**
**Fullname:** Digit number 2

**Attribute Description** This is the third digit of the forth selective transfer telephone number.

**Attribute: selxfer4.dn3**
**Fullname:** Digit number 3

**Attribute Description** This is the forth digit of the forth selective transfer telephone number.

**Attribute: selxfer4.dn4**
**Fullname:** Digit number 4

**Attribute Description** This is the fifth digit of the forth selective transfer telephone number.

**Attribute: selxfer4.dn5**
**Fullname:** Digit number 5

**Attribute Description** This is the sixth digit of the forth selective transfer telephone number.

**Attribute: selxfer4.dn6**
**Fullname:** Digit number 6

**Attribute Description** This is the seventh digit of the forth selective transfer telephone number.

**Attribute: selxfer4.dn7**
**Fullname:** Digit number 7

**Attribute Description** This is the eigth digit of the forth selective transfer telephone number.

**Attribute: selxfer4.dn8**
**Fullname:** Digit number 8

**Attribute Description** This is the ninth digit of the forth selective transfer telephone number.

**Attribute: selxfer4.dn9**
**Fullname:** Digit number 9

**Attribute Description** This is the tenth digit of the forth selective transfer telephone number.

**Attribute: selxfer4.dn10**
**Fullname:** Digit number 10

**Attribute Description** This is the eleventh digit of the digit structure.

**Attribute: selxfer4.dn11**

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**Fullname:** Digit number 11

**Attribute Description** This is the twelfth digit of the digit structure.

**Attribute: selxfer4.dn12**
**Fullname:** Digit number 12

**Attribute Description** This is the thirteenth digit of the digit structure.

**Attribute: selxfer4.dn13**
**Fullname:** Digit number 13

**Attribute Description** This is the fourteenth digit of the digit structure.

**Attribute: selxfer4.dn14**
**Fullname:** Digit number 14

**Attribute Description** This is the fifteenth digit of the digit structure.

**Attribute: selxfer4.digcnt**
**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the forth selective call transfer telephone number.

**Attribute: selxfer5**
**Fullname:** Selective transfer number 5

**Attribute Description** This is the fifth selective transfer telephone number. It is used by the PSAPs to do a selective call transfer. It contains a selective transfer telephone number but is not mandatory. It also has a digit count specifying the total number of digits. The digits are stored in order with the first digit (leftmost) stored in digit 0 of the structure, and the second digit in digit 1 of the structure, etc. This field is not mandatory. It can contain 0 to 15 digits.

**Attribute: selxfer5.dn0**
**Fullname:** Digit number 0

**Attribute Description** This is the first digit of the fifth selective transfer telephone number.

**Attribute: selxfer5.dn1**
**Fullname:** Digit number 1

**Attribute Description** This is the second digit of the fifth selective transfer telephone number.

**Attribute: selxfer5.dn2**
**Fullname:** Digit number 2

**Attribute Description** This is the third digit of the fifth selective transfer telephone number.

**Attribute: selxfer5.dn3**
**Fullname:** Digit number 3

**Attribute Description** This is the forth digit of the fifth selective transfer telephone number.

**Attribute: selxfer5.dn4**
**Fullname:** Digit number 4

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**Attribute Description** This is the fifth digit of the fifth selective transfer telephone number.

**Attribute: selxfer5.dn5**
**Fullname:** Digit number 5

**Attribute Description** This is the sixth digit of the fifth selective transfer telephone number.

**Attribute: selxfer5.dn6**
**Fullname:** Digit number 6

**Attribute Description** This is the seventh digit of the fifth selective transfer telephone number.

**Attribute: selxfer5.dn7**
**Fullname:** Digit number 7

**Attribute Description** This is the eigth digit of the fifth selective transfer telephone number.

**Attribute: selxfer5.dn8**
**Fullname:** Digit number 8

**Attribute Description** This is the ninth digit of the fifth selective transfer telephone number.

**Attribute: selxfer5.dn9**
**Fullname:** Digit number 9

**Attribute Description** This is the tenth digit of the fifth selective transfer telephone number.

**Attribute: selxfer5.dn10**
**Fullname:** Digit number 10

**Attribute Description** This is the eleventh digit of the digit structure.

**Attribute: selxfer5.dn11**
**Fullname:** Digit number 11

**Attribute Description** This is the twelfth digit of the digit structure.

**Attribute: selxfer5.dn12**
**Fullname:** Digit number 12

**Attribute Description** This is the thirteenth digit of the digit structure.

**Attribute: selxfer5.dn13**
**Fullname:** Digit number 13

**Attribute Description** This is the fourteenth digit of the digit structure.

**Attribute: selxfer5.dn14**
**Fullname:** Digit number 14

**Attribute Description** This is the fifteenth digit of the digit structure.

**Attribute: selxfer5.digcnt**
**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the fifth selective call transfer

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telephone number.

**Attribute: selxfer6**

**Fullname:** Selective transfer number 6

**Attribute Description** This is the sixth selective transfer telephone number. It is used by the PSAPs to do a selective call transfer. It contains a selective transfer telephone number but is not mandatory. It also has a digit count specifying the total number of digits. The digits are stored in order with the first digit (leftmost) stored in digit 0 of the structure, and the second digit in digit 1 of the structure, etc. This field is not mandatory. It can contain 0 to 15 digits.

**Attribute: selxfer6.dn0**

**Fullname:** Digit number 0

**Attribute Description** This is the first digit of the sixth selective transfer telephone number.

**Attribute: selxfer6.dn1**

**Fullname:** Digit number 1

**Attribute Description** This is the second digit of the sixth selective transfer telephone number.

**Attribute: selxfer6.dn2**

**Fullname:** Digit number 2

**Attribute Description** This is the third digit of the sixth selective transfer telephone number.

**Attribute: selxfer6.dn3**

**Fullname:** Digit number 3

**Attribute Description** This is the forth digit of the sixth selective transfer telephone number.

**Attribute: selxfer6.dn4**

**Fullname:** Digit number 4

**Attribute Description** This is the fifth digit of the sixth selective transfer telephone number.

**Attribute: selxfer6.dn5**

**Fullname:** Digit number 5

**Attribute Description** This is the sixth digit of the sixth selective transfer telephone number.

**Attribute: selxfer6.dn6**

**Fullname:** Digit number 6

**Attribute Description** This is the seventh digit of the sixth selective transfer telephone number.

**Attribute: selxfer6.dn7**

**Fullname:** Digit number 7

**Attribute Description** This is the eigth digit of the sixth selective transfer telephone number.

**Attribute: selxfer6.dn8**

**Fullname:** Digit number 8

**Attribute Description** This is the ninth digit of the sixth selective transfer telephone number.

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**Attribute: selxfer6.dn9**
**Fullname:** Digit number 9

**Attribute Description** This is the tenth digit of the sixth selective transfer telephone number.

**Attribute: selxfer6.dn10**
**Fullname:** Digit number 10

**Attribute Description** This is the eleventh digit of the digit structure.

**Attribute: selxfer6.dn11**
**Fullname:** Digit number 11

**Attribute Description** This is the twelfth digit of the digit structure.

**Attribute: selxfer6.dn12**
**Fullname:** Digit number 12

**Attribute Description** This is the thirteenth digit of the digit structure.

**Attribute: selxfer6.dn13**
**Fullname:** Digit number 13

**Attribute Description** This is the fourteenth digit of the digit structure.

**Attribute: selxfer6.dn14**
**Fullname:** Digit number 14

**Attribute Description** This is the fifteenth digit of the digit structure.

**Attribute: selxfer6.digcnt**
**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the sixth selective call transfer telephone number.

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# ESPINFO

## 1. Description

This relation contains the information about the enhanced service provider external to the *5ESS*®-2000 switch.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
ESPINFO     relid = 1476  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     code_access  DMCHAR3      (array [ 3 ] of char )     <--- key
     thrd_type    DMUNS8       (ushort: 8)
     bncc_tod     DMUNS5       (ushort: 5)
     bnpin_tod    DMUNS5       (ushort: 5)
     cac_tod      DMUNS5       (ushort: 5)
 (a) ccn_send     DMBOOL       (enum: 1)
     sab_tod      DMUNS5       (ushort: 5)
 (b) dny_treat    DMDNYTREAT   (enum: 2)
 (c) sabn_send    DMBOOL       (enum: 1)
 (d) bk_thrd_trn  DMBOOL       (enum: 1)
 (e) ccs7sig      DMBOOL       (enum: 1)
 (f) esc_on       DMBOOL       (enum: 1)
 (g) vmsdomblg    DMBOOL       (enum: 1)
 (h) vmsintlblg   DMBOOL       (enum: 1)
     tn_access    DMDN         (struct)
         digcnt       DMDIGCNT     (uchar: 4)
         dn           DMDIGSTRING  (array [ 15 ] of char )
     cardtyp1     DMHEX32      (ulong)
     cardtyp2     DMHEX32      (ulong)
     cardtyp3     DMHEX32      (ulong)
     cardtyp4     DMHEX32      (ulong)
     spare        DMULONG      (ulong)
         User, Compacted and Stored Tuple Layout    ESPINFO
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |                                           |              |
  0 |                  code_access              |   thrd_type  |
    |--------------+--------------+--------------+--------------|
    |         |         |         | |         |   | | | | | | |     |
  4 | bncc_tod|bnpin_tod| cac_tod |a| sab_tod | b |c|d|e|f|g|h|*****|
    |==============+========== tn_access ==========+==============|
    |       |       |                                           |
  8 | digcnt|*******|                      dn                   |
    | - - - - - - - + - - - - - - - - - + - - - - - - - - - + - - |
    |                                                           |
 12 |                            dn                             |
    | - - - - - - - + - - - - - - - - - + - - - - - - - - - + - - |
```

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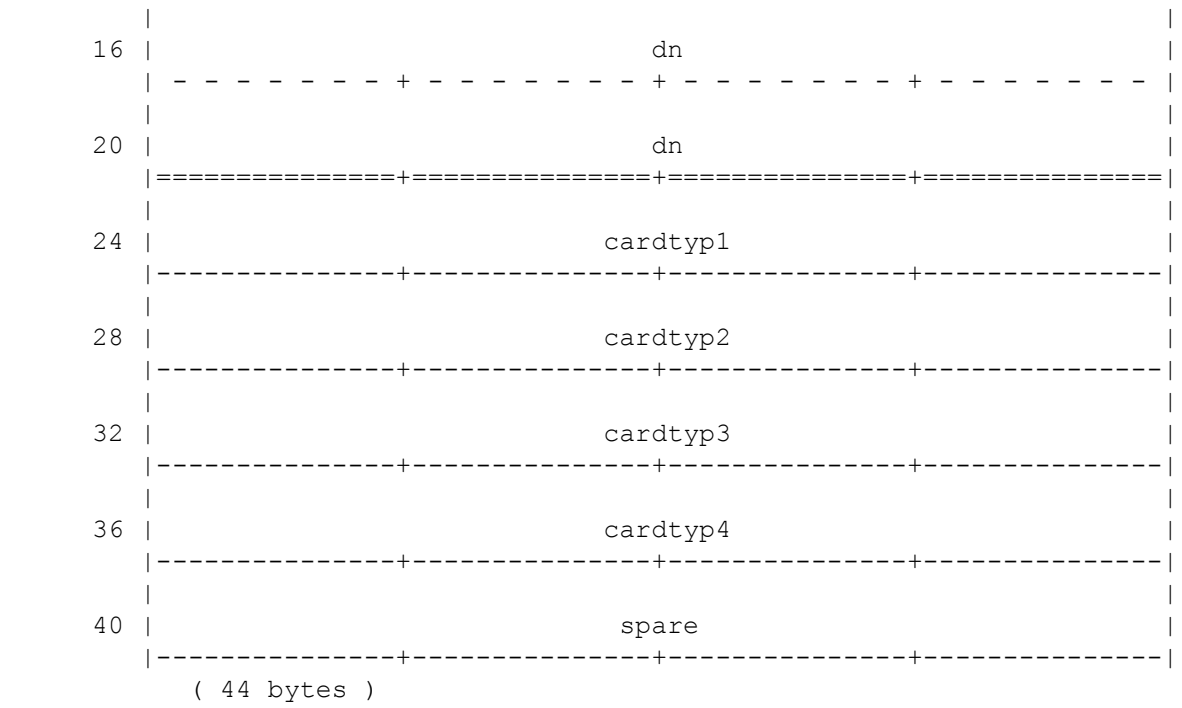


## 4. Population Rules for RLespinfo

**Relation Description** Enhanced Service Provider (ESP) Information
This relation contains the information about the Enhanced Service Provider external to the *5ESS*®-2000 switch.

**Attribute: code_access**

**Fullname:** Enhanced Service Provider Access Code

**Attribute Description** This is the Enhanced Service Provider (ESP) access code. This access code is used to complete the request to reach a Voice Messaging Service (VMS). A caller who encounters busy, or no answer, can transfer to an ESP's VMS to leave a message by entering a service code and an access code. The service code specifies a request for ESP service while the access code indicates a particular ESP's VMS. The access code consists of from one to three digits, with each digit having the full range 0-9.

**Attribute: tn_access**

**Fullname:** Enhanced Service Provider access telephone number

**Attribute Description** This is the actual ten (10) digit telephone number (TN) or Service Access Code (SAC) used to reach the VMS.

**Attribute: tn_access.digcnt**

**Fullname:** The count of the Access Telephone Number.

**Attribute Description** This is the count of the digits in the TN for the ESP access telephone number.

**Attribute: tn_access.dn**

**Fullname:** The telephone number (TN) or Service Access Code (SAC) used to reach the VMS.

**Attribute Description** This is the actual ten (10) digit telephone number (TN) or Service Access Code (SAC) used to reach the MVS.

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**Attribute: ccn_send**

**Fullname:** Send the calling card number to the ESP

**Attribute Description** The send card number field indicates whether or not to send the credit card number to the Enhanced Service Provider (ESP). This field indicates whether the ESP will accept commercial credit card numbers to bill the call to the ESP.

**Attribute: sabn_send**

**Fullname:** Send the subaccount billing number to the ESP

**Attribute Description** The send subaccount billing number field indicates whether or not to send the subaccount billing number to the Enhanced Service Provider (ESP). Subaccount billing is the ability to provide a telephone customer a detailed breakdown, per subaccount billing number, on their monthly statements.

**Attribute: bk_thrd_trn**

**Fullname:** Transfer the bill to a back third number.

**Attribute Description** The Back Third Transfer field indicates whether the Enhanced Service Provider (ESP) will permit the customer to transfer the bill to a back third number. That is, the ESP will bill the cost of forwarding the message from the calling party to a different back number other than the calling party.

**Attribute: ccs7sig**

**Fullname:** CCS7 signaling

**Attribute Description** The ccs7sig field will indicate whether CCS7 signaling is used for the information transfer to the ESP.

**Attribute: bncc_tod**

**Fullname:** billing number credit card type of digits

**Attribute Description** This field is the decimal form of the binary value to be placed into an Initial Address Message (IAM). This field will represent the billing number credit card type of digits used in the IAM.

**Attribute: bnpin_tod**

**Fullname:** billing number PIN type of digits used in an Initial Address Message (IAM)

**Attribute Description** This field is the decimal form of the binary value to be placed into an Initial Address Message (IAM). This field will represent the billing number PIN type of digits used in an IAM.

**Attribute: cac_tod**

**Fullname:** CCC Authorization Code type of digits used in Initial Address Message.

**Attribute Description** This field is the decimal form of the binary value to be placed into an Initial Address Message (IAM). This field will represent the Commercial Credit Card (CCC) authorization code type of digits used in an IAM.

**Attribute: sab_tod**

**Fullname:** subaccount billing number type of digits used in Initial Address Message.

**Attribute Description** This field is the decimal form of the binary value to be placed into an Initial Address Message (IAM). This field will represent the subaccount billing number type of digits used

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in an IAM.

**Attribute: thrd_type**

**Fullname:** third number type used in Initial Address Message.

**Attribute Description** This field is the decimal form of the binary value to be placed into an Initial Address Message message. This field will represent the third number type of digits used in an IAM.

**Attribute: esc_on**

**Fullname:** Expanded Call Screening On.

**Attribute Description** This field indicates whether the Expanded Call Screening feature is active for this ESP.

**Attribute: vmsdomblg**

**Fullname:** VMS domestic billing changes indicator

**Attribute Description** This field is the VMS DOM BLG field, which indicates whether to use the VMS Access Dialing Changes feature for billing purposes for forward numbers that are domestic.

**Attribute: vmsintlblg**

**Fullname:** VMS international billing changes indicator

**Attribute Description** This field is the VMS INTL BLG field, which indicates whether to use the VMS Access Dialing Changes feature for billing purposes for forward numbers that are international.

**Attribute: dny_treat**

**Fullname:** Deny Treatment.

**Attribute Description** This field indicates the type of deny treatment to be given a caller when card denial is indicated.

**Attribute: cardtyp1**

**Fullname:** Card Type 1.

**Attribute Description** This field is the first part of a bit map indicating which card types are accepted for billing by this ESP.

**Attribute: cardtyp2**

**Fullname:** Card Type 2.

**Attribute Description** This field is the second part of a bit map indicating which card types are accepted for billing by this ESP.

**Attribute: cardtyp3**

**Fullname:** Card Type 3.

**Attribute Description** This field is the third part of a bit map indicating which card types are accepted for billing by this ESP.

**Attribute: cardtyp4**

**Fullname:** Card Type 4.

**Attribute Description** This field is the fourth/last part of a bit map indicating which card types are

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accepted for billing by this ESP.

**Attribute: spare**

**Fullname:** Spare

**Attribute Description**

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# EXPACD

## 1. Description

OSPS Expanded (Flexible) Automated Call Distribution (ACD)

This relation will have a distribution of FR (Fixed Redundant).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 5000 |
| expected number of tuples | 1000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
EXPACD      relid = 2934  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     cpval_char  DMCHAR10     (array [ 10 ] of char )    <--- key
     cpval_int   DMUSHORT     (ushort)    <--- key
     callq       DMUNS10      (ushort: 10)
 (a) prop_type   DMCALLPROP   (enum: 4)    <--- key
     dispx       DMDISPX2     (ushort: 9)
     ta_pcid     DMUNS7       (ushort: 7)    <--- key
     acdexp      DMCHAR7      (array [ 7 ] of char )
     ap_callq    DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout EXPACD
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                           cpval_char                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                           cpval_char                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  8 |           cpval_char          |           cpval_int           |
    |---------------+---------------+---------------+---------------|
    |                   |       |   |                   |           |
 12 |       callq       |   a   |***|      dispx        |   ta_pcid |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                             acdexp                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                               |               |
 20 |                     acdexp                    |    ap_callq   |
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population rules for RLexpacd

### Relation Description

OSPS Expanded (Flexible) Automatic Call Distribution (ACD) Call

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Type Determination
RLexpacd defines an OSPS call type, display index, and automated position call type based on a call type determination pre-call ID and call processing call property.

**Attribute:**
ta_pcid
**Fullname:**
Pre-call ID
**Attribute Description:**
The pre-call ID value serves as a key to the flexible ACD call type determination process. The pre-call ID represents the link between this relation and the RLac_cqdet relation.

**Attribute:**
prop_type
**Fullname:**
Call property type
**Attribute Description:**
The call property type identifies a call processing characteristic used in flexible ACD call type determination. The following list provides the mnemonic representation of each of the valid call property types:

AN - Access Number (8XX or SSC-WXY-Z Number)
AO - Account Owner
CIC - Carrier Identification Code
DCIC - Direct International Originations (DIOR) Carrier
DEST - Destination Index
II - ANI II Digits
LC - Language Code
LRN - Originating Location Routing Number (LRN)
NPA - Originating NPA-NXX
OLS - Originating Line Screening (OLS) Code
TGRP - Incoming Trunk Group Number

**Attribute:**
cpval_char
**Fullname:**
Character call property value
**Attribute Description:**
This attribute stores call property values that, from the perspective of call processing, are of a character format. This attribute represents a call property value for the following call property types (also included are the valid values for each call property type):

Access Number - either a 10-digit number of the form 8XXNXXXXXX where N=2-9 and X=0-9 (8XX number) or a 7-digit number where each digit may be 0-9 (SSC-WXY-Z number)

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Account Owner - a 4-character alpha-numeric string
DIOR Carrier - a 4-digit number, where each digit may be 0-9
ANI II Digits - a number in the range 00-99
Originating LRN - a 6-digit number of the form NXXXXX
where N=1-9 and X=0-9
Originating NPA-NXX - a 6-digit number of the form NXXXXX
where N=1-9 and X=0-9
For all other call property types, this attribute is set to NULL.

**Attribute:**
cpval_int
**Fullname:**
Integer call property value
**Attribute Description:**
This attribute stores call property values that, from the perspective of call processing, are of an integer format. This attribute represents a call property value for the following call property types (also included are the valid values for each call property type):
Carrier Identification Code - a number in the range 0-9999 or 10001 for LEC.

Destination Index - a number in the range 1-4095
Language Code - a number in the range 0-1000
OLS Code - a number in the range 0-999
Trunk Group Number - a number in the range 1-4000
For all other call property types, this attribute is set to zero (0).

**Attribute:**
callq
**Fullname:**
OSPS call type or service ID
**Attribute Description:**
This attribute specifies an OSPS call type or service ID.

**Attribute:**
dispx
**Fullname:**
Display index
**Attribute Description:**
This attribute specifies an operator position display index.

**Attribute:**
ap_callq
**Fullname:**
Automated position call type
**Attribute Description:**

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This attribute specifies a call type used to direct calls to an automated position.

**Attribute:**

acdexp

**Fullname:**

Overriding flexible ACD call property expression

**Attribute Description:**

This attribute specifies the overriding call property expression to be used for flexible ACD call type determination. The expression is comprised of from 1 - 4 call property types. Each call property type must be separated by a logical operator (either OR (|) or AND (&)) when more than one call property type is defined. A call property type can appear only once in the expression. Call property type 'Q' is used to quit the call type determination process at this level. The expression may also be left blank (NULL), meaning that OSPS will continue the call type determination process with the current expression. The following list provides the mnemonic representation of each of the valid call property types:

NULL - Continue the call type determination process with the current expression
A - Account Owner
C - Carrier Identification Code
D - Destination Index
G - Language Code
I - ANI II Digits
L - Originating Location Routing Number (LRN)
N - Originating NPA-NXX
O - Originating Line Screening (OLS) Code
Q - Quit the call type determination process at this level
R - Direct International Originations (DIOR) carrier
S - Access Number (8XX or SSC-WXY-Z Number)
T - Incoming Trunk Group Number

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## 2.7 RELATIONS: F

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# F_VPIDB

## 1. Description

This relation maps from the SONET Facility number to the Virtual Peripheral Interface Data Bus (VPIDB).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1008 |
| expected tuples in relation | 140 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
F_VPIDB     relid = 2090  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL

     fac_ckt     DMCIRCUIT    (ushort)
     unitnumber  DMUNITNO     (ushort: 8)     <--- key
     unittype    DMUNITTYPE   (enum: 7)     <--- key
 (a) appunit_asgnd  DMBOOL       (enum: 1)
     vpidb       DMPIDB      (ushort: 6)
     sfacno      DMSFACNO     (ushort: 5)     <--- key
     pct_link    DMPCTLNK     (ushort: 5)
 (b) app_type    DMAPP_TYPE   (enum: 4)
     sts_num     DMSTS        (ushort: 4)     <--- key
         User, Compacted and Stored Tuple Layout    F_VPIDB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               | |
  0 |             fac_ckt           |   unitnumber  |   unittype    |a|
    |---------------+---------------+---------------+---------------|
    |           |         |         |       |       |               |
  4 |   vpidb   |  sfacno | pct_link|   b   |sts_num|***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLf_vpidb

**Relation Description** Facility Number to Virtual PIDB
This relation associates a SONET STS-1 facility with a Virtual Peripheral Interface Data Bus (VPIDB). A VPIDB is a structure on a Peripheral Control and Timing (PCT) link. This relation is the reverse mapping of the RLvpidb_f relation. For each entry in RLf_vpidb there must be an associated entry in RLvpidb_f.

**Attribute: unittype**

**Fullname:** Peripheral Unit Type

**Attribute Description** The type of peripheral unit that terminates the facility.

**Attribute: unitnumber**

**Fullname:** unit number

**Attribute Description** The unit number that identifies the peripheral unit.

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**Attribute: sts_num**

**Fullname:** STS-1 Path number

**Attribute Description** This attribute identifies the parent STS-1 path of the specified SONET facility number.

**Attribute: sfacno**

**Fullname:** SONET Facility Number

**Attribute Description** This attribute identifies the subtending SONET DS1 facility on a STS-1 path.

**Attribute: pct_link**

**Fullname:** peripheral control and timing link number

**Attribute Description** This attribute identifies the relative PCT link number for the peripheral. The range is 0 through 11 with links 0 through 5 being in data group 0 and links 6 through 11 in data group 1. There is only one tuple in this relation for every pair of peripheral links connected to the CDs.

**Attribute: vpidb**

**Fullname:** virtual PIDB number

**Attribute Description** This attribute identifies the structure on the associated PCT link.

**Attribute: appunit_asgnd**

**Fullname:** Application Unit Assigned Indicator

**Attribute Description** This attribute indicates whether a transport facility with the ability to host a remote application actually has a remote unit assigned, or if it is in the "limbo" state. Note that the "app_type" attribute may indicate the type of application to be assigned to this transport (in the near future), even if this attribute (appunit_asgnd) indicates it hasn't been assigned yet.

**Attribute: app_type**

**Fullname:** Application Type

**Attribute Description** Application type using the VPIDB on the PCT link.

**Attribute: fac_ckt**

**Fullname:** Facility circuit name

**Attribute Description** Circuit name of the facility (VT1.5 name for TR-303 on DNU-S application)

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# FAC_CAB

## 1. Description

Distance and type of cable used to connect facilities (DS1s) to the DSX frame.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| trigger function | SMfaccab |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| foldtype | DBDEFAULT |

## 3. Field Layout

```
FAC_CAB     relid = 1732  DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL

     cktname     DMCIRCUIT    (ushort)     <--- key
     ckttype     DMCKTTYPE    (enum)
     distance    DMCOUNT      (ushort)
 (a) cable_series  DMCABLE      (enum: 2)
         User, Compacted and Stored Tuple Layout    FAC_CAB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             cktname           |             ckttype           |
    |---------------+---------------+---------------+---------------|
    |                               |   |                           |
  4 |             distance          | a |***************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLfac_cab

**Relation Description** Integrated Digital Carrier Unit Cable Information
This relation contains the distance in feet between the integrated digital carrier unit (IDCU) and digital cross-connect (DSX) panel and the type of cable used to connect the backplane to the DSX.

**Attribute: cktname**

**Fullname:** Electrical Line Interface (ELI) circuit name

**Attribute Description** This is the ELI circuit name. There is one tuple in this relation for each ELI on every IDCU on the SM.

**Attribute: ckttype**

**Fullname:** Circuit Type

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**Attribute Description** This is the circuit type. For IDCU, this will always be the ELI.

**Attribute: distance**

**Fullname:** IDCU - DSX Distance

**Attribute Description** This is the distance in feet between the IDCU and the DSX panel.

**Attribute: cable_series**

**Fullname:** Cable Series

**Attribute Description** This is the cable series (series 609 or series 1249).

**Defines:** "db/DMcircuit.h"

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# FAC_PROV

## 1. Description

This relation contains provisioning data for facilities that terminate on the Digital Networking Unit-SONET. The DNU-S facilities include:

SONET Termination Equipment (STE),
Synchronous Transport Signal-1 (STS-1),
Virtual Tributary 1.5 (VT1.5), and
Digital Signal Level 1 (DS1).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2088 |
| expected tuples in relation | 290 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | TMfac_prov |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
FAC_PROV    relid = 2107  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     cktname     DMCIRCUIT    (ushort)     <--- key
     ckttype     DMCKTTYPE    (enum)
 (a) master_vpidb  DMVPIDB      (ushort: 6)
 (b) sd_thresh   DMUNS4       (ushort: 4)
 (c) vt_size     DMVT_SIZE    (enum: 3)
 (d) ds1_frm     DMDS1_FRM    (enum: 3)
 (e) sf_thresh   DMUNS3       (ushort: 3)
 (f) vt_mode     DMVT_MODE    (enum: 2)
 (g) vt_type     DMVT_TYPE    (enum: 2)
 (h) ste_lbo     DMBOOL       (enum: 1)
 (i) ds1_sig     DMDFICHSIG   (enum: 2)
 (j) ds1_zcs     DMBOOL       (enum: 1)
 (k) aps_inhibit  DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   FAC_PROV
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            cktname            |            ckttype            |
   |---------------+---------------+---------------+---------------|
   |           |       |     |     |     |   |   | |   | | |       |
 4 |     a     |   b   |  c  |  d  |  e  | f | g |h| i |j|k|*******|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population rules for RLfac_prov

**Relation Description**

Facility provisioning data

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This relation contains provisioning information for facilities that terminate on the Digital Networking Unit-SONET (DNU-S) This information is stored in the SM, but must be downloaded to the DNU-S via HW tasks. The facilities that are supported for the DNU-S peripheral are:

OC-3 SONET Termination Equipment (OC3STE),
STSX-1 SONET Termination Equipment (EC1STE),
Synchronous Transport Signal-1 (STS-1),
Virtual Tributary 1.5 (VT1.5), and
Digital Signal Level 1 (DS1).

**Attribute:**
cktname
**Fullname:**
circuit name
**Attribute Description:**
This attribute identifies the circuit name for the facility.

**Attribute:**
ckttype
**Fullname:**
circuit type
**Attribute Description:**
This attribute identifies the circuit type for the facility.

**Attribute:**
master_vpidb
**Fullname:**
Master Virtual Peripheral Interface Data Bus (VPIDB)
**Attribute Description:**
This attribute identifies the VPIDB number of the DS1 facility that is used by resident software in the DNU-S to report STE/STS Carrier Group Alarm (CGA) information.

**Attribute:**
ste_lbo
**Fullname:**
SONET Termination Equipment Line Build Out
**Attribute Description:**
Line Build Out is a signal attenuation function provided in the transmit path of the STSX-1 interface. Signal attenuation is needed to prevent excessive signal strength at the electrical cross connect panel when using short coax cable lengths. When the Line Build Out field is set to Y, attenuation is active. When the Line Build Out field is set to N, no attenuation is applied. The following diagram indicates cable length thresholds that require attenuation.

|------------|-------------------------|-------------------------|

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| Cable Type | Line Build Out = Y | Line Build Out = N |
|---|---|---|
| 735A | cable length <= 120 feet | cable length > 120 feet |
| 734A | cable length <= 225 feet | cable length > 225 feet |
| 728A | cable length <= 225 feet | cable length > 225 feet |

Note: If an electrical cross connect is located between the DNU-S and SONET transmission equipment, cable length refers to the distance between the DNU-S and the electrical cross connect. Otherwise, cable length refers to the total distance between the DNU-S and the SONET transmission equipment.

**Attribute:**
vt_mode
**Fullname:**
Signaling Mode of the Virtual Tributary
**Attribute Description:**
This attribute identifies the type of signaling supported by the VT.

**Attribute:**
vt_size
**Fullname:**
Virtual Tributary Group Size
**Attribute Description:**
This attribute identifies the VT group size.

**Attribute:**
vt_type
**Fullname:**
Virtual Tributary mode mapping type
**Attribute Description:**
This attribute identifies the VT mode mapping for the DS1s associated with the facility.

**Attribute:**
ds1_sig
**Fullname:**
DS1 Signaling Bit Insertion Mode
**Attribute Description:**
This attribute controls the per channel signaling insertion mode for the DS1. This attribute is no longer used.

**Attribute:**
ds1_frm

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**Fullname:**
DS1 Frame Format
**Attribute Description:**
This attribute identifies the framing format for the DS1.

**Attribute:**
ds1_zcs
**Fullname:**
DS1 Zero Code Suppression
**Attribute Description:**
This attribute indicates whether zero code suppression
is provided for the DS1.

**Attribute:**
sf_thresh
**Fullname:**
Signal Fail Threshold
**Attribute Description:**
Indicates the automatic protection switching signal fail bit
error rate threshold.

**Attribute:**
sd_thresh
**Fullname:**
Signal Degrade Threshold
**Attribute Description:**
Indicates the automatic protection switching signal degraded bit
error rate threshold.

**Attribute:**
aps_inhibit
**Fullname:**
Automatic Protection Switch Inhibit
**Attribute Description:**
Indicates the inhibit/allow state of automatic protection switching.

**Defines:**
"db/DMvpidb.h"

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# FACADDSC

## 1. Description

Abbreviated dial list descriptor. This relation contains information about an AD list needed during feature assignment.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1023 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |
| foldtype | DBGC31 |

## 3. Field Layout

```
FACADDSC    relid = 477   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP

     adid        DMFACID      (ushort)     <--- key
     adcount     DMUNS16      (ushort)
     class       DMFACLASS    (enum: 5)     <--- key
 (a) subclass    DMFACSUBCL   (enum: 4)     <--- key
         User, Compacted and Stored Tuple Layout   FACADDSC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |               adid            |            adcount            |
    |---------------+---------------+---------------+---------------|
    |         |     |       |                                       |
  4 |  class  |*****|   a   |***************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLfacaddsc

**Relation Description** Feature assignment and construction abbreviated dialing descriptor
This relation has a tuple for every shared 1 digit and 2 digit abbreviated dialing (speed calling) list, except for the following: if the adcount is 8 (for 1 digit) or 30 (for 2 digit), there is no tuple. The adcount tells how many entries there are in the list.

**Attribute: adid**

**Fullname:** Abbreviated dialing identification number

**Attribute Description** This is the internal identification number for the abbreviated dialing list.

**Attribute: class**

**Fullname:** Feature assignment and construction class

**Attribute Description** Externally known names are divided into a number of classes. This is an enumerated type identifying the class associated with the external name as found in RLname2id.

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This attribute allows 1 digit and 2 digit abbreviated dialing lists to have separate name and adid spaces.

**Attribute: subclass**

**Fullname:** Feature assignment and construction subclass

**Attribute Description** Each class of names (in this relation, FACAD1 and FACAD2) is divided into one or more subclasses. Both of these classes have subclasses SCL_SHR (shared) and SCL_UNSHR (unshared). However, this relation only has tuples for shared.

**Attribute: adcount**

**Fullname:** Abbreviated dialing count

**Attribute Description** This attribute tells how many entries there are in the abbreviated dialing list.

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# FACFD_R

## 1. Description

Root storage relation for FACFTDSC.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTORAGE |
| ks key store | DBNO |
| permutation type | perm |

## 3. Field Layout

```
FACFD_R     relid = 1689  DBSTORAGE  DBACC_CIND  DBPRAM    LP      RCMAP

     fid         DMMCC_FID    (ushort)     <--- key, not stored
     ffcf6       DMHEX16      (ushort)
     act1_16     DMGK14       (ulong: 14)
 (a) cfcount     DMBOOL       (enum: 1)
 (b) ffcf1       DMBOOL       (enum: 1)
     act17_32    DMGK14       (ulong: 14)
 (c) asncrit     DMASNCRIT    (enum: 2)
     selcrit     DMSELCRIT    (enum: 6)
     ffcf5       DMUNS6       (ushort: 6)
 (d) ffcf2       DMBOOL       (enum: 1)
 (e) ffcf3       DMBOOL       (enum: 1)
 (f) ffcf4       DMBOOL       (enum: 1)
     ptyfilt     DMMCCLFLTR   (struct)
 (g)     intratg     DMBOOL       (enum: 1)
 (h)     intraoff    DMBOOL       (enum: 1)
 (i)     interoff    DMBOOL       (enum: 1)
 (j)     pf          DMBOOL       (enum: 1)
 (k)     attndnt     DMBOOL       (enum: 1)
         User and Compacted Tuple Layout    FACFD_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |               fid             |*******************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               | | |
  4 |              ffcf6            |          act1_16              |a|b|
    |---------------+---------------+---------------+---------------|
    |                           |   |           |           | | | | | |
  8 |          act17_32         | c |  selcrit  |   ffcf5   |d|e|f|*|
    |===============+=========== ptyfilt ===========+===============|
    | | | | | |                                                     |
 12 |g|h|i|j|k|*****************************************************|
    |===============+===============+===============+===============|
       ( 16 bytes )
```

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```
    ffcf6       DMHEX16      (ushort)
    act1_16     DMGK14       (ulong: 14)
(a) cfcount     DMBOOL       (enum: 1)
(b) ffcf1       DMBOOL       (enum: 1)
    act17_32    DMGK14       (ulong: 14)
(c) asncrit     DMASNCRIT    (enum: 2)
    selcrit     DMSELCRIT    (enum: 6)
    ffcf5       DMUNS6       (ushort: 6)
(d) ffcf2       DMBOOL       (enum: 1)
(e) ffcf3       DMBOOL       (enum: 1)
(f) ffcf4       DMBOOL       (enum: 1)
    ptyfilt     DMMCCLFLTR   (struct)
(g)     intratg     DMBOOL       (enum: 1)
(h)     intraoff    DMBOOL       (enum: 1)
(i)     interoff    DMBOOL       (enum: 1)
(j)     pf          DMBOOL       (enum: 1)
(k)     attndnt     DMBOOL       (enum: 1)
          Stored Tuple Layout      FACFD_R
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                           | | |
 0 |             ffcf6             |          act1_16          |a|b|
   |---------------+---------------+---------------+---------------|
   |                             |   |           |           | | | | |
 4 |          act17_32           | c |  selcrit  |   ffcf5   |d|e|f|*|
   |===============+=========== ptyfilt ===========+===============|
   | | | | | |                                                     |
 8 |g|h|i|j|k|*****************************************************|
   |===============+===============+===============+===============|
      ( 12 bytes )
```

## 4. Population Rules for RLfacfd_r

There are no population rules for this relation.

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# FACFTDSC

## 1. Description

Feature descriptor: Contains feature assignment and selection information.

This is a virtual relation. The root storage relation is RLfacfd_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation FACFTDSC.

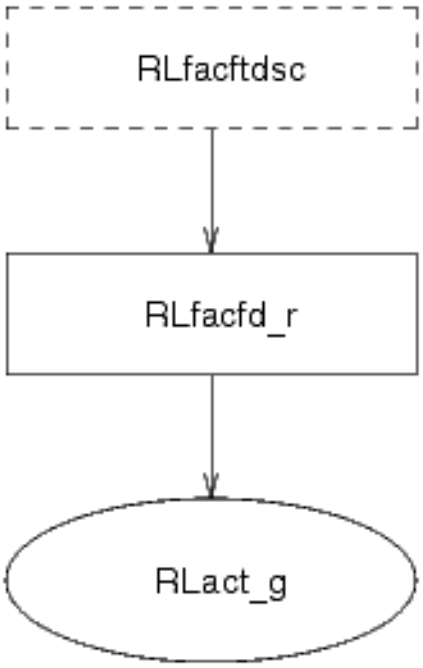


**Figure 1 Virtual Relation FACFTDSC**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
FACFTDSC    relid = 478   DBSTATIC   DBACC_OPV   DBNOTODD  LP      RCMAP

     fid          DMMCC_FID     (ushort)  <--- key
 (a) asncrit      DMASNCRIT     (enum: 2)
     selcrit      DMSELCRIT     (enum: 6)
 (b) cfcount      DMBOOL        (enum: 1)
 (c) ffcf1        DMBOOL        (enum: 1)
 (d) ffcf2        DMBOOL        (enum: 1)
 (e) ffcf3        DMBOOL        (enum: 1)
 (f) ffcf4        DMBOOL        (enum: 1)
     ffcf5        DMUNS6        (ushort: 6)
     ffcf6        DMHEX16       (ushort)
```

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```
    ptyfilt     DMMCCLFLTR   (struct)
(g)     intratg     DMBOOL       (enum: 1)
(h)     intraoff    DMBOOL       (enum: 1)
(i)     interoff    DMBOOL       (enum: 1)
(j)     pf          DMBOOL       (enum: 1)
(k)     attndnt     DMBOOL       (enum: 1)
    action1     DMMCACTN     (enum: 9)
    action2     DMMCACTN     (enum: 9)
    action3     DMMCACTN     (enum: 9)
    action4     DMMCACTN     (enum: 9)
    action5     DMMCACTN     (enum: 9)
    action6     DMMCACTN     (enum: 9)
    action7     DMMCACTN     (enum: 9)
    action8     DMMCACTN     (enum: 9)
    action9     DMMCACTN     (enum: 9)
    action10    DMMCACTN     (enum: 9)
    action11    DMMCACTN     (enum: 9)
    action12    DMMCACTN     (enum: 9)
    action13    DMMCACTN     (enum: 9)
    action14    DMMCACTN     (enum: 9)
    action15    DMMCACTN     (enum: 9)
    action16    DMMCACTN     (enum: 9)
    action17    DMMCACTN     (enum: 9)
    action18    DMMCACTN     (enum: 9)
    action19    DMMCACTN     (enum: 9)
    action20    DMMCACTN     (enum: 9)
    action21    DMMCACTN     (enum: 9)
    action22    DMMCACTN     (enum: 9)
    action23    DMMCACTN     (enum: 9)
    action24    DMMCACTN     (enum: 9)
    action25    DMMCACTN     (enum: 9)
    action26    DMMCACTN     (enum: 9)
    action27    DMMCACTN     (enum: 9)
    action28    DMMCACTN     (enum: 9)
    action29    DMMCACTN     (enum: 9)
    action30    DMMCACTN     (enum: 9)
    action31    DMMCACTN     (enum: 9)
    action32    DMMCACTN     (enum: 9)
        User, Compacted and Stored Tuple Layout   FACFTDSC
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |   |           | | | | | |     |
 0 |              fid              | a |  selcrit  |b|c|d|e|f|*****|
   |---------------+---------------+---------------+---------------|
   |           |                   |                               |
 4 |   ffcf5   |*******************|             ffcf6             |
   |===============+=========== ptyfilt ===========+===============|
   | | | | | |                                                     |
 8 |g|h|i|j|k|*****************************************************|
   |===============+===============+===============+===============|
   |                 |             |                 |             |
12 |     action1     |*************|     action2     |*************|
   |---------------+---------------+---------------+---------------|
```

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| | | | | |
|---|---|---|---|---|
| 16 | action3 | ********** | action4 | ********** |
| 20 | action5 | ********** | action6 | ********** |
| 24 | action7 | ********** | action8 | ********** |
| 28 | action9 | ********** | action10 | ********** |
| 32 | action11 | ********** | action12 | ********** |
| 36 | action13 | ********** | action14 | ********** |
| 40 | action15 | ********** | action16 | ********** |
| 44 | action17 | ********** | action18 | ********** |
| 48 | action19 | ********** | action20 | ********** |
| 52 | action21 | ********** | action22 | ********** |
| 56 | action23 | ********** | action24 | ********** |
| 60 | action25 | ********** | action26 | ********** |
| 64 | action27 | ********** | action28 | ********** |
| 68 | action29 | ********** | action30 | ********** |
| 72 | action31 | ********** | action32 | ********** |

( 76 bytes )

## 4. Population Rules for RLfacftdsc

**Relation Description** Feature assignment and construction feature descriptor.

There is a tuple in this relation for each business and residential customer service (BRCS) feature. In general, this relation is populated according to the options selected for the feature. The options vary for each modular feature type and a base relation exists for each modular feature. This base relation contains the options selected for each

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feature of that modular feature type.

**Attribute: fid**

**Fullname:** Feature identification (FID) number

**Attribute Description** This is the internal feature identifier. A FID is a special type of feature assignment and construction identification (FACID) consisting of two components: a modular feature type (top six bits, bits 15 to 10) and a unique identifier (bottom ten bits, bits nine to zero). The modular feature type is an enumerated data type. A unique identifier of one indicates a wild card (or magic) feature. Preconstructed features have a unique identifier less than 128, and other features have one greater than or equal to 128.

**Attribute: asncrit**

**Fullname:** Assignment criterion

**Attribute Description** This field is always ASNIM_ONLY, except for the null feature. The value of 'asncrit' in the null feature's tuple controls the autoform default value on the feature assignment views. ASNIM_ONLY means the view should autoform to feature parameter views if the 'P' field is blank; ASNNULL means it should not.

**Attribute: selcrit**

**Fullname:** Selection criterion

**Attribute Description** This is an enumerated date type used by feature execution to determine when a feature is to be selected for execution.

**Attribute: cfcount**

**Fullname:** Constructed feature count flag

**Attribute Description** This is a boolean flag set to DBYES when the feature is counted in the global parameter constructed feature count (CFC) against the constructed feature limit (CFL). MFID, MFSC, and MFPFA are not counted in the CFC, but all others are.

**Attribute: ffcf1**

**Fullname:** Future field 1

**Attribute Description** future field feature use.

**Attribute: ffcf2**

**Fullname:** Future field 2

**Attribute Description** future field feature use.

**Attribute: ffcf3**

**Fullname:** Future field 3

**Attribute Description** future field feature use.

**Attribute: ffcf4**

**Fullname:** Future field 4

**Attribute Description** future field feature use.

**Attribute: ffcf5**

**Fullname:** unsigned 6 reserved for future field feature use

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**Attribute Description** Not assigned yet

**Attribute: ffcf6**

**Fullname:** Unit 16 reserved for future field feature use

**Attribute Description** Not assigned yet

**Attribute: ptyfilt**

**Fullname:** Party filtering criteria

**Attribute Description** This is a structure of booleans containing party filtering criteria.

**Attribute: ptyfilt.intratg**

**Fullname:** Party filtering for intra-terminal group

**Attribute Description** This is a boolean used by feature execution to determine when a feature is to be selected for execution. DBYES indicates the feature can be selected for calls between terminals in the same terminal group. DBNO indicates the feature is not selected for calls between terminals in the same terminal group.

**Attribute: ptyfilt.intraoff**

**Fullname:** Party filtering for intra-office

**Attribute Description** This is a boolean used by feature execution to determine when a feature is to be selected for execution. DBYES indicates the feature can be selected for calls between terminals in the same office which are in different terminal groups (that is, all intra- office calls which are not intra-terminal group). DBNO indicates the feature will not be selected in this case.

**Attribute: ptyfilt.interoff**

**Fullname:** Party filtering for inter-office

**Attribute Description** This is a boolean used by feature execution to determine when a feature is to be selected for execution. DBYES indicates the feature can be selected for calls between terminals in different offices. DBNO indicates the feature is not selected for calls between terminals in different offices.

**Attribute: ptyfilt.pf**

**Fullname:** Party filtering for private facilities

**Attribute Description** This is a boolean used by feature execution to determine when a feature is to be selected for execution. DBYES indicates the feature can be selected for execution for private facility calls. DBNO indicates the feature is not selected for private facility calls.

**Attribute: ptyfilt.attndnt**

**Fullname:** Party filtering for attendant

**Attribute Description** This is a boolean used by feature execution to determine when a feature is to be selected for execution. DBYES indicates the feature can be selected for attendant calls. DBNO indicates the feature cannot be selected for attendant calls.

**Attribute: action[*]**

**Fullname:** Customer action for this FID

**Attribute Description** This gives a customer action allowed for this FID.

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# FACIDS

## 1. Description

Maintains list of available FAC IDs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1023 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |

## 3. Field Layout

```
FACIDS      relid = 479   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP

     facid       DMFACID      (ushort)     <--- key
     reclaimid   DMFACID      (ushort)
     lastused    DMFACID      (ushort)
     class       DMFACLASS    (enum: 5)     <--- key
 (a) subclass    DMFACSUBCL   (enum: 4)     <--- key
         User, Compacted and Stored Tuple Layout FACIDS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              facid            |           reclaimid           |
    |---------------+---------------+---------------+---------------|
    |                               |         |     |       |       |
  4 |             lastused          |  class  |*****|   a   |*******|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLfacids

**Relation Description** Feature assignment and construction identification numbers.

This relation contains the data required for allocating unique facids. A tuple exists in this relation for each class, subclass, and modular feature type that has allocated facids. In addition, a tuple exists in this relation for each facid to be reclaimed for a given class, subclass, and modular feature type.

RLfacids consists of linked lists of tuples. The head cell of each linked list is called a master tuple. These can be class master, subclass master, or feature master tuples. Class master tuples can exist only for classes that allow no subclass but SCL_NULL. Subclass master tuples can exist for every valid class/subclass combination except for those using subclass SCL_NULL, with the following exceptions:

(1) For class FACBRCS, subclass SCL_FEAT, there is no subclass master tuple. Instead, there is (at most) one feature master tuple for each modular feature type other than MFNULL.

(2) For class FACBFG, there is no subclass master tuple for subclasses SCL_BFGR and SCL_DFLT. These subclasses share the same facid range as SCL_BFGID, and so they also use the subclass master tuple for

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SCL_BFGID.

Class master tuples have the given class with subclass SCL_NULL and facid 0. Subclass master tuples have the given subclass and its class and facid 0. Feature master tuples have class FACBRCS, subclass SCL_FEAT, and a facid containing the given modular feature type in the upper 6 bits with the other 10 bits being 0.

A master tuple is needed for one of two reasons:

(1) If any facids for this type have ever been defined, the master tuple's lastused attribute gives the largest facid of this type ever allocated.

(2) If any lower-numbered facids have been deallocated and have not yet been reallocated, there needs to be a linked list of tuples, with the reclaimid of each containing one of the holes. If the reclaimid of a tuple is nonzero, there will be another tuple in the linked list with its facid equal to this reclaimid.

If no facids have ever been defined for a given type, there will not be a master tuple for it.

For class=FACL1PM (layer 1 performance monitoring), subclass master tuples are required for subclasses SCL_DF2FAC, SCL_FAC, and SCL_DSL.

The subclass master tuple for DFI-2 DS1 facility performance monitoring has attribute values as follows:
```
facid = 0
class = FACL1PM
subclass = SCL_DF2FAC
```
The subclass master tuple for facility performance monitoring has attribute values as follows:
```
facid = 0
class = FACL1PM
subclass = SCL_FAC
```
The subclass master tuple for DSL performance monitoring has attribute values as follows:
```
facid = 0
class = FACL1PM
subclass = SCL_DSL
```
These subclass master tuples will always be present, because generic default and office default tuples exist for each of the subclasses SCL_FAC, SCL_DSL, and SCL_DF2FAC.

**Attribute: facid**

**Fullname:** Feature assignment and construction identification

**Attribute Description** This is the internal identifier associated with the external name. This is a short with a range from 0 to 65535. For most names, this is treated as a simple number. But if the name represents a BRCS feature (class is FACBRCS and subclass is SCL_FEAT), the number is divided into two fields: a modular feature type (mftype [top 6 bits: bits 15 - 10]), and a unique identifier (bottom 10 bits: bits 9 - 0). The mftype is a enumerated data type with one of the values found in domain DMmftype. For the null feature (a preconstructed feature) both fields are 0, giving a facid of 0. For any other feature, the mftype is nonzero, and so is the unique identifier. In this relation, a facid of 0 does not, however, represent the null feature: it tells that the tuple is a class or subclass master tuple (the head of a linked list). For a feature master tuple, facid has the modular feature type in the top 6 bits and zero in the other 10.

**Attribute: class**

**Fullname:** Feature assignment and construction class

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**Attribute Description** Externally known names are divided into a number of classes. This is an enumerated type identifying the class associated with the external name. This attribute allows each class to have its own unique name space and facid space.

**Attribute: subclass**

**Fullname:** Feature assignment and construction subclass

**Attribute Description** Each class of names is divided into one or more subclasses. The subclasses of a given class all share the same external name space, but they all have different facid number spaces: that is, names of different subclasses can have the same facid. The exception to this is that the BFG subclasses other than SCL_BFGB do share the same facid number space.

**Attribute: reclaimid**

**Fullname:** Reclaim identification

**Attribute Description** This attribute is used to keep a linked list of tuples representing the internal facids to be reclaimed for a given class, subclass, and modular feature type. If the value is zero this indicates the end of the linked list. If greater than 0 it indicates the existence of another tuple in this relation keyed by the class, subclass, and facid equal to the reclaimed id in this relation.

**Attribute: lastused**

**Fullname:** Last facid allocated

**Attribute Description** This attribute is always zero in non-master tuples. In a master tuple, it gives the largest facid that was ever allocated for the type facid shown by the keys to this tuple.

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# FACLUST

## 1. Description

Maps from cluster to associated features ids, contains information needed by feature assignment.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_CIND |
| memory type | DBDISK |
| distribution | DO |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| intermediate page size | 256 |
| data page size | 2048 |
| page level | 3 |
| ks key store option | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
FACLUST     relid = 480   DBSTATIC   DBACC_CIND  DBDISK    DO      DDBM

    cid         DMMCC_FID    (ushort)     <--- key, not stored
    clent1      DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
 (a)    initactv    DMBOOL       (enum: 1)
 (b)    autoparm    DMAUTOPARM   (enum: 2)
 (c)    ac          DMBOOL       (enum: 1)
 (d)    rasalwd     DMBOOL       (enum: 1)
    clent2      DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
 (e)    initactv    DMBOOL       (enum: 1)
 (f)    autoparm    DMAUTOPARM   (enum: 2)
 (g)    ac          DMBOOL       (enum: 1)
 (h)    rasalwd     DMBOOL       (enum: 1)
    clent3      DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
 (i)    initactv    DMBOOL       (enum: 1)
 (j)    autoparm    DMAUTOPARM   (enum: 2)
 (k)    ac          DMBOOL       (enum: 1)
 (l)    rasalwd     DMBOOL       (enum: 1)
    clent4      DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
 (m)    initactv    DMBOOL       (enum: 1)
 (n)    autoparm    DMAUTOPARM   (enum: 2)
 (o)    ac          DMBOOL       (enum: 1)
 (p)    rasalwd     DMBOOL       (enum: 1)
    clent5      DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
 (q)    initactv    DMBOOL       (enum: 1)
 (r)    autoparm    DMAUTOPARM   (enum: 2)
 (s)    ac          DMBOOL       (enum: 1)
 (t)    rasalwd     DMBOOL       (enum: 1)
    clent6      DMFACLENT    (struct)
```

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```
        fid         DMMCC_FID    (ushort)
(u)     initactv    DMBOOL       (enum: 1)
(v)     autoparm    DMAUTOPARM   (enum: 2)
(w)     ac          DMBOOL       (enum: 1)
(x)     rasalwd     DMBOOL       (enum: 1)
    clent7      DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(y)     initactv    DMBOOL       (enum: 1)
(z)     autoparm    DMAUTOPARM   (enum: 2)
(A)     ac          DMBOOL       (enum: 1)
(B)     rasalwd     DMBOOL       (enum: 1)
    clent8      DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(C)     initactv    DMBOOL       (enum: 1)
(D)     autoparm    DMAUTOPARM   (enum: 2)
(E)     ac          DMBOOL       (enum: 1)
(F)     rasalwd     DMBOOL       (enum: 1)
    clent9      DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(G)     initactv    DMBOOL       (enum: 1)
(H)     autoparm    DMAUTOPARM   (enum: 2)
(I)     ac          DMBOOL       (enum: 1)
(J)     rasalwd     DMBOOL       (enum: 1)
    clent10     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(K)     initactv    DMBOOL       (enum: 1)
(L)     autoparm    DMAUTOPARM   (enum: 2)
(M)     ac          DMBOOL       (enum: 1)
(N)     rasalwd     DMBOOL       (enum: 1)
    clent11     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(O)     initactv    DMBOOL       (enum: 1)
(P)     autoparm    DMAUTOPARM   (enum: 2)
(Q)     ac          DMBOOL       (enum: 1)
(R)     rasalwd     DMBOOL       (enum: 1)
    clent12     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(S)     initactv    DMBOOL       (enum: 1)
(T)     autoparm    DMAUTOPARM   (enum: 2)
(U)     ac          DMBOOL       (enum: 1)
(V)     rasalwd     DMBOOL       (enum: 1)
    clent13     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(W)     initactv    DMBOOL       (enum: 1)
(X)     autoparm    DMAUTOPARM   (enum: 2)
(Y)     ac          DMBOOL       (enum: 1)
(Z)     rasalwd     DMBOOL       (enum: 1)
    clent14     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(a)     initactv    DMBOOL       (enum: 1)
(b)     autoparm    DMAUTOPARM   (enum: 2)
(c)     ac          DMBOOL       (enum: 1)
(d)     rasalwd     DMBOOL       (enum: 1)
    clent15     DMFACLENT    (struct)
```

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```
        fid         DMMCC_FID    (ushort)
(e)     initactv    DMBOOL       (enum: 1)
(f)     autoparm    DMAUTOPARM   (enum: 2)
(g)     ac          DMBOOL       (enum: 1)
(h)     rasalwd     DMBOOL       (enum: 1)
    clent16     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(i)     initactv    DMBOOL       (enum: 1)
(j)     autoparm    DMAUTOPARM   (enum: 2)
(k)     ac          DMBOOL       (enum: 1)
(l)     rasalwd     DMBOOL       (enum: 1)
        User and Compacted Tuple Layout    FACLUST
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 0 |              cid                |*******************************|
   |===============+===========  clent1 ==========+===============|
   |                                 | |   | | |                     |
 4 |              fid                |a| b |c|d|*********************|
   |===============+===========  clent2 ==========+===============|
   |                                 | |   | | |                     |
 8 |              fid                |e| f |g|h|*********************|
   |===============+===========  clent3 ==========+===============|
   |                                 | |   | | |                     |
12 |              fid                |i| j |k|l|*********************|
   |===============+===========  clent4 ==========+===============|
   |                                 | |   | | |                     |
16 |              fid                |m| n |o|p|*********************|
   |===============+===========  clent5 ==========+===============|
   |                                 | |   | | |                     |
20 |              fid                |q| r |s|t|*********************|
   |===============+===========  clent6 ==========+===============|
   |                                 | |   | | |                     |
24 |              fid                |u| v |w|x|*********************|
   |===============+===========  clent7 ==========+===============|
   |                                 | |   | | |                     |
28 |              fid                |y| z |A|B|*********************|
   |===============+===========  clent8 ==========+===============|
   |                                 | |   | | |                     |
32 |              fid                |C| D |E|F|*********************|
   |===============+===========  clent9 ==========+===============|
   |                                 | |   | | |                     |
36 |              fid                |G| H |I|J|*********************|
   |===============+========== clent10 ==========+===============|
   |                                 | |   | | |                     |
40 |              fid                |K| L |M|N|*********************|
   |===============+========== clent11 ==========+===============|
   |                                 | |   | | |                     |
44 |              fid                |O|                             |
   |===============+========== clent12 ==========+===============|
   |                                 | |   | | |                     |
48 |              fid                |S| T |U|V|*********************|
   |===============+========== clent13 ==========+===============|
```

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```
   |                               | |   | | |                     |
52 |              fid              |W| X |Y|Z|*********************|
   |===============+=========== clent14 ===========+===============|
   |                               | |   | | |                     |
56 |              fid              |a| b |c|d|*********************|
   |===============+=========== clent15 ===========+===============|
   |                               | |   | | |                     |
60 |              fid              |e| f |g|h|*********************|
   |===============+=========== clent16 ===========+===============|
   |                               | |   | | |                     |
64 |              fid              |i| j |k|l|*********************|
   |===============+===============+===============+===============|
     ( 68 bytes )
    clent1      DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(a)     initactv    DMBOOL       (enum: 1)
(b)     autoparm    DMAUTOPARM   (enum: 2)
(c)     ac          DMBOOL       (enum: 1)
(d)     rasalwd     DMBOOL       (enum: 1)
    clent2      DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(e)     initactv    DMBOOL       (enum: 1)
(f)     autoparm    DMAUTOPARM   (enum: 2)
(g)     ac          DMBOOL       (enum: 1)
(h)     rasalwd     DMBOOL       (enum: 1)
    clent3      DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(i)     initactv    DMBOOL       (enum: 1)
(j)     autoparm    DMAUTOPARM   (enum: 2)
(k)     ac          DMBOOL       (enum: 1)
(l)     rasalwd     DMBOOL       (enum: 1)
    clent4      DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(m)     initactv    DMBOOL       (enum: 1)
(n)     autoparm    DMAUTOPARM   (enum: 2)
(o)     ac          DMBOOL       (enum: 1)
(p)     rasalwd     DMBOOL       (enum: 1)
    clent5      DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(q)     initactv    DMBOOL       (enum: 1)
(r)     autoparm    DMAUTOPARM   (enum: 2)
(s)     ac          DMBOOL       (enum: 1)
(t)     rasalwd     DMBOOL       (enum: 1)
    clent6      DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(u)     initactv    DMBOOL       (enum: 1)
(v)     autoparm    DMAUTOPARM   (enum: 2)
(w)     ac          DMBOOL       (enum: 1)
(x)     rasalwd     DMBOOL       (enum: 1)
    clent7      DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(y)     initactv    DMBOOL       (enum: 1)
(z)     autoparm    DMAUTOPARM   (enum: 2)
(A)     ac          DMBOOL       (enum: 1)
```

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```
(B)     rasalwd     DMBOOL       (enum: 1)
    clent8      DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(C)     initactv    DMBOOL       (enum: 1)
(D)     autoparm    DMAUTOPARM   (enum: 2)
(E)     ac          DMBOOL       (enum: 1)
(F)     rasalwd     DMBOOL       (enum: 1)
    clent9      DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(G)     initactv    DMBOOL       (enum: 1)
(H)     autoparm    DMAUTOPARM   (enum: 2)
(I)     ac          DMBOOL       (enum: 1)
(J)     rasalwd     DMBOOL       (enum: 1)
    clent10     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(K)     initactv    DMBOOL       (enum: 1)
(L)     autoparm    DMAUTOPARM   (enum: 2)
(M)     ac          DMBOOL       (enum: 1)
(N)     rasalwd     DMBOOL       (enum: 1)
    clent11     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(O)     initactv    DMBOOL       (enum: 1)
(P)     autoparm    DMAUTOPARM   (enum: 2)
(Q)     ac          DMBOOL       (enum: 1)
(R)     rasalwd     DMBOOL       (enum: 1)
    clent12     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(S)     initactv    DMBOOL       (enum: 1)
(T)     autoparm    DMAUTOPARM   (enum: 2)
(U)     ac          DMBOOL       (enum: 1)
(V)     rasalwd     DMBOOL       (enum: 1)
    clent13     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(W)     initactv    DMBOOL       (enum: 1)
(X)     autoparm    DMAUTOPARM   (enum: 2)
(Y)     ac          DMBOOL       (enum: 1)
(Z)     rasalwd     DMBOOL       (enum: 1)
    clent14     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(a)     initactv    DMBOOL       (enum: 1)
(b)     autoparm    DMAUTOPARM   (enum: 2)
(c)     ac          DMBOOL       (enum: 1)
(d)     rasalwd     DMBOOL       (enum: 1)
    clent15     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(e)     initactv    DMBOOL       (enum: 1)
(f)     autoparm    DMAUTOPARM   (enum: 2)
(g)     ac          DMBOOL       (enum: 1)
(h)     rasalwd     DMBOOL       (enum: 1)
    clent16     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(i)     initactv    DMBOOL       (enum: 1)
(j)     autoparm    DMAUTOPARM   (enum: 2)
(k)     ac          DMBOOL       (enum: 1)
```

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```
(l)     rasalwd     DMBOOL       (enum: 1)
          Stored Tuple Layout      FACLUST
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+===========  clent1 ==========+===============|
   |                               | |   | | |                       |
 0 |               fid               |a| b |c|d|**********************|
   |===============+===========  clent2 ==========+===============|
   |                               | |   | | |                       |
 4 |               fid               |e| f |g|h|**********************|
   |===============+===========  clent3 ==========+===============|
   |                               | |   | | |                       |
 8 |               fid               |i| j |k|l|**********************|
   |===============+===========  clent4 ==========+===============|
   |                               | |   | | |                       |
12 |               fid               |m| n |o|p|**********************|
   |===============+===========  clent5 ==========+===============|
   |                               | |   | | |                       |
16 |               fid               |q| r |s|t|**********************|
   |===============+===========  clent6 ==========+===============|
   |                               | |   | | |                       |
20 |               fid               |u| v |w|x|**********************|
   |===============+===========  clent7 ==========+===============|
   |                               | |   | | |                       |
24 |               fid               |y| z |A|B|**********************|
   |===============+===========  clent8 ==========+===============|
   |                               | |   | | |                       |
28 |               fid               |C| D |E|F|**********************|
   |===============+===========  clent9 ==========+===============|
   |                               | |   | | |                       |
32 |               fid               |G| H |I|J|**********************|
   |===============+========== clent10 ==========+===============|
   |                               | |   | | |                       |
36 |               fid               |K| L |M|N|**********************|
   |===============+========== clent11 ==========+===============|
   |                               | |   | | |                       |
40 |               fid               |O|                           |
   |===============+========== clent12 ==========+===============|
   |                               | |   | | |                       |
44 |               fid               |S| T |U|V|**********************|
   |===============+========== clent13 ==========+===============|
   |                               | |   | | |                       |
48 |               fid               |W| X |Y|Z|**********************|
   |===============+========== clent14 ==========+===============|
   |                               | |   | | |                       |
52 |               fid               |a| b |c|d|**********************|
   |===============+========== clent15 ==========+===============|
   |                               | |   | | |                       |
56 |               fid               |e| f |g|h|**********************|
   |===============+========== clent16 ==========+===============|
   |                               | |   | | |                       |
60 |               fid               |i| j |k|l|**********************|
   |===============+===============+===============+===============|
      ( 64 bytes )
```

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```
domain alFACLUST   struct  (2 sub-attributes)
         cid         unsigned short (ushort)
         clent       .0.fake      (array [ 16 ] of .2fake )
             fid         unsigned short (ushort)
 (a)         initactv    .0fake       (enum)
 (b)         autoparm    .1fake       (enum)
 (c)         ac          .0fake       (enum)
 (d)         rasalwd     .0fake       (enum)
         Structure Layout      alFACLUST
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |               cid              |*******************************|
    |================+==========  clent[0] ==========+===============|
    |                                | |   | | |                     |
  4 |               fid              |a| b |c|d|*********************|
    |================+==========  clent[1] ==========+===============|
    |                                | |   | | |                     |
  8 |               fid              |a| b |c|d|*********************|
    |================+==========  clent[2] ==========+===============|
    |                                | |   | | |                     |
 12 |               fid              |a| b |c|d|*********************|
    |================+==========  clent[3] ==========+===============|
    |                                | |   | | |                     |
 16 |               fid              |a| b |c|d|*********************|
    |================+==========  clent[4] ==========+===============|
    |                                | |   | | |                     |
 20 |               fid              |a| b |c|d|*********************|
    |================+==========  clent[5] ==========+===============|
    |                                | |   | | |                     |
 24 |               fid              |a| b |c|d|*********************|
    |================+==========  clent[6] ==========+===============|
    |                                | |   | | |                     |
 28 |               fid              |a| b |c|d|*********************|
    |================+==========  clent[7] ==========+===============|
    |                                | |   | | |                     |
 32 |               fid              |a| b |c|d|*********************|
    |================+==========  clent[8] ==========+===============|
    |                                | |   | | |                     |
 36 |               fid              |a| b |c|d|*********************|
    |================+==========  clent[9] ==========+===============|
    |                                | |   | | |                     |
 40 |               fid              |a| b |c|d|*********************|
    |================+========== clent[10] ==========+===============|
    |                                | |   | | |                     |
 44 |               fid              |a| b |c|d|*********************|
    |================+========== clent[11] ==========+===============|
    |                                | |   | | |                     |
 48 |               fid              |a| b |c|d|*********************|
    |================+========== clent[12] ==========+===============|
    |                                | |   | | |                     |
 52 |               fid              |a| b |c|d|*********************|
    |================+========== clent[13] ==========+===============|
```

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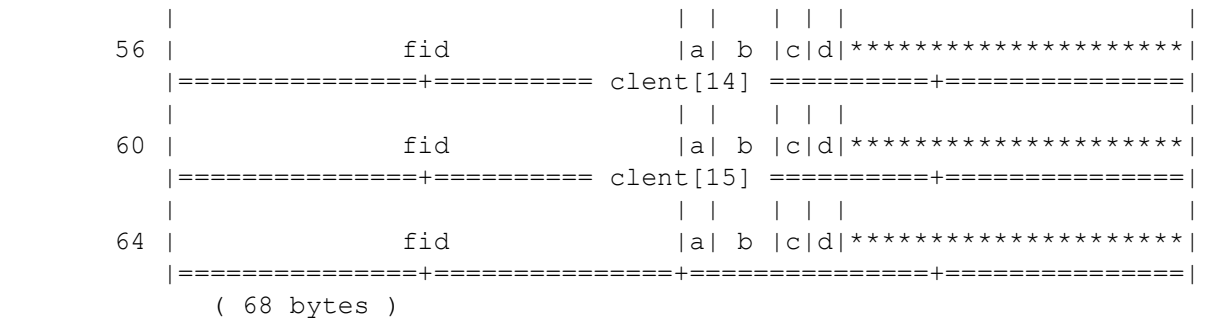


## 4. Population Rules for RLfaclust

**Relation Description** This relation lists the BRCS features which comprise the cluster, along with the values of activation, automatic forms presentation request, authorization code, and remote access service, to be used by feature assignment.

**Attribute: cid**

**Fullname:** cluster identifier

**Attribute Description** Contains the internal identifier corresponding to the name of the cluster which is described.

**Attribute: clent[*]**

**Fullname:** cluster entry

**Attribute Description** Contains information used by feature assignment when assigning the cluster.

**Attribute: clent[*].fid**

**Fullname:** feature identifier

**Attribute Description** Contains the internal identifier corresponding to the name of the feature which is a part of the cluster.

**Attribute: clent[*].initactv**

**Fullname:** initial value of activation

**Attribute Description** Contains the initial value for activation status of the feature. This attribute is used only during assignment of the cluster.

**Attribute: clent[*].autoparm**

**Fullname:** automatic presentation of parameter forms

**Attribute Description** Contains the initial value of automatic forms presentation for the feature. This attribute is used only during assignment of the cluster.

**Attribute: clent[*].ac**

**Fullname:** authorization code required

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**Attribute Description** Contains the initial value of authorization code for the feature. This attribute is used only during assignment of the cluster.

**Attribute: clent[*].rasalwd**
**Fullname:** remote access service allowed

**Attribute Description** Contains the initial value of remote access service allowed for the feature. This attribute is used only during assignment of the cluster.

**Attribute: clent[*]**
**Fullname:** cluster entry

**Attribute Description** Contains information used by feature assignment when assigning the cluster.

**Attribute: clent[*].fid**
**Fullname:** feature identifier

**Attribute Description** Contains the internal identifier corresponding to the name of the feature which is a part of the cluster.

**Attribute: clent[*].initactv**
**Fullname:** initial value of activation

**Attribute Description** Contains the initial value for activation status of the feature. This attribute is used only during assignment of the cluster.

**Attribute: clent[*].autoparm**
**Fullname:** automatic presentation of parameter forms

**Attribute Description** Contains the initial value of automatic forms presentation for the feature. This attribute is used only during assignment of the cluster.

**Attribute: clent[*].ac**
**Fullname:** authorization code required

**Attribute Description** Contains the initial value of authorization code for the feature. This attribute is used only during assignment of the cluster.

**Attribute: clent[*].rasalwd**
**Fullname:** remote access service allowed

**Attribute Description** Contains the initial value of remote access service allowed for the feature. This attribute is used only during assignment of the cluster.

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# FACNAME

## 1. Description

Maps from an external FAC name to an internal id.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3072 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| foldtype | DBGC31 |

## 3. Field Layout

```
FACNAME     relid = 481   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP

     name        DMFACNAME    (array [ 8 ] of char )     <--- key
     facid       DMFACID      (ushort)
     class       DMFACLASS    (enum: 5)     <--- key
 (a) subclass    DMFACSUBCL   (enum: 4)
     usecnt      DMFACUSCNT   (ulong)
         User, Compacted and Stored Tuple Layout    FACNAME
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                              name                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                              name                             |
    |---------------+---------------+---------------+---------------|
    |                                |         |     |       |       |
  8 |             facid              |  class  |*****|   a   |*******|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                            usecnt                             |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLfacname

**Relation Description** Feature assignment and construction name to ID translation
This relation translates an 8-character ASCII name (known to the switch personnel) to a 16-bit internal name. There is a separate name space for each class of names, which is the other key.

There is a tuple in this relation for every tuple in RLfid2name.

**Attribute: name**

**Fullname:** Eight-character ASCII name

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**Attribute Description** This is the externally known ASCII name. It can be from 1 to 8 characters long. If it is less than 8 characters long, the field is padded with binary zeros ('\0'). Names must be unique within a given class. Names from different classes need not be unique.

**Attribute: class**

**Fullname:** Feature assignment and construction class

**Attribute Description** Externally known names are divided into a number of classes. This is an enumerated type identifying the class associated with the external name. This attribute allows each class to have its own unique name space.

**Attribute: subclass**

**Fullname:** Feature assignment and construction subclass

**Attribute Description** Each class of names is divided into one or more subclasses. The subclasses of a given class all share the same name space, since subclass is not a key to RLfacname.

**Attribute: facid**

**Fullname:** Feature assignment and construction identification

**Attribute Description** This is the internal identifier associated with the external name. This is a short with a range from 0 to 65535. For most names, this is treated as a simple number. But if the name represents a BRCS feature (class is FACBRCS and subclass is SCL_FEAT), the number is divided into two fields: a modular feature type (mftype [top 6 bits: bits 15 - 10]), and a unique identifier (bottom 10 bits: bits 9 - 0). The mftype is a enumerated data type with one of the values found in domain DMmftype. For the null feature (a preconstructed feature) both fields are 0, giving a facid of 0. For any other feature, the mftype is nonzero, and so is the unique identifier.

**Attribute: usecnt**

**Fullname:** Usage count

**Attribute Description** This is a count of the number of references of the facid in other base relations.

**Defines:** "db/DMmftype.h",
"db/DMfid.h"

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# FACRMKS

## 1. Description

Contains service provider remarks associated with the FACID.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 5000 |
| access type | DBACC_CIND |
| memory type | DBDISK |
| distribution | DO |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 4096 |
| intermediate page size | 512 |
| data page size | 2048 |
| page level | 3 |
| l1 length of subkey1 | 2 |
| p1 position of subkey1 | 0 |
| l2 length of subkey2 | 5 |
| p2 position of subkey2 | 16 |
| l3 length of subkey3 | 4 |
| p3 position of subkey3 | 24 |
| l4 length of subkey4 | 14 |
| p4 position of subkey4 | 2 |
| ks key store | DBNO |

## 3. Field Layout

```
FACRMKS     relid = 482   DBSTATIC   DBACC_CIND  DBDISK    DO      DDBM
     facid       DMFACID      (ushort)     <--- key, not stored
     class       DMFACLASS    (enum: 5)     <--- key, not stored
 (a) subclass    DMFACSUBCL   (enum: 4)     <--- key, not stored
     remarks     DMMC_RMK     (array [ 32 ] of char )
         User and Compacted Tuple Layout    FACRMKS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |         |     |       |       |
  0 |              facid            |  class  |*****|   a   |*******|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            remarks                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                            remarks                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                            remarks                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                            remarks                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                            remarks                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
```

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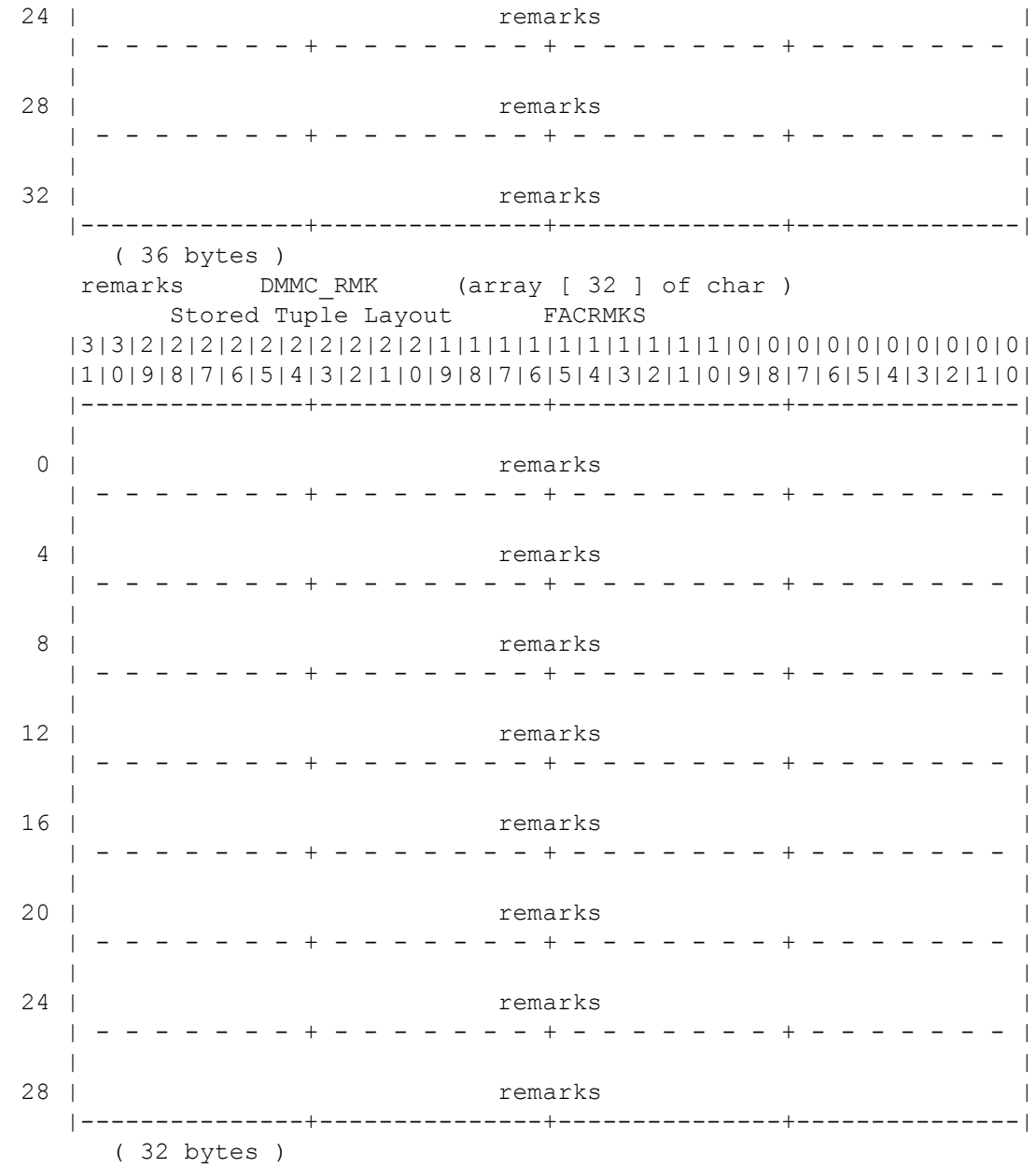


## 4. Population Rules for RLfacrmks

**Relation Description** This relation contains remarks concerning an item in RLfacname (an external name). It is optional: external names do not need to have remarks.

**Attribute: facid**

**Fullname:** Feature assignment and construction identifier

**Attribute Description** This is the internal identifier associated with the external name. This is a short with a range from 0 to 65535. For most names, this is treated as a simple number. But if the name represents a BRCS feature (class is FACBRCS and subclass is SCL_FEAT), the number is divided into two fields: a modular feature type (mftype [top 6 bits: bits 15 - 10]), and a unique identifier (bottom 10 bits: bits 9 - 0). The mftype is a enumerated data type with one of the values

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found in domain DMmftype. For the null feature (a preconstructed feature) both fields are 0, giving a facid of 0. For any other feature, the mftype is nonzero, and so is the unique identifier.

**Attribute: class**

**Fullname:** Feature assignment and construction class

**Attribute Description** Externally known names are divided into a number of classes. This is an enumerated type identifying the class associated with the external name. This attribute allows each class to have its own unique name space.

**Attribute: subclass**

**Fullname:** Feature assignment and construction subclass

**Attribute Description** Each class of names is divided into one or more subclasses. The subclasses of a given class all share the same name space, since subclass is not a key to RLfacname.

**Attribute: remarks**

**Fullname:** Feature assignment and construction remarks

**Attribute Description** This attribute holds the remarks associated with these keys. Using these same keys, RLfid2name gives the corresponding external name. Names do not need to have remarks. If there are no remarks, there will be no tuple in RLfacrmks.

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# FACTHRSH

## 1. Description

This relation contains the performance monitoring thresholds for facilities. The following units and facilities are supported:

```
Integrated Digital Carrier Unit (IDCU)
       - Digital Signal Level 1 (DS1)
Digital Networking Unit-SONET (DNU-S)
       - SONET Termination Equipment (STE)
       - Virtual Tributary 1.5 (VT1.5)
       - Digital Signal Level 1 (DS1)
```

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2048 |
| expected tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LRFG |
| relation type | DBSTATIC |
| trigger function | TMfacthrsh |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
FACTHRSH    relid = 1734  DBSTATIC   DBACC_HASH  DBPRAM    LRFG    NULL
     cvd         DMCVD        (ulong: 20)
     les15       DMLES15      (ushort: 12)
     pmgrp       DMFACID      (ushort)     <--- key
     cktttype    DMCKTTYPE    (enum)
     lesd        DMLESD       (ushort: 16)
     lsesd       DMLSESD      (ushort: 16)
     pesd        DMPESD       (ushort: 16)
     psesd       DMPSESD      (ushort: 16)
     puasd       DMPUASD      (ushort: 16)
     pflsd       DMPFLSD      (ushort: 16)
     pssd        DMPSSD       (ushort: 16)
     cv15        DMCV15       (ushort: 14)
 (a) inh15       DMBOOL       (enum: 1)
 (b) inhday      DMBOOL       (enum: 1)
     lses15      DMLSES15     (ushort: 12)
     pes15       DMPES15      (ushort: 12)
     pses15      DMPSES15     (ushort: 12)
     puas15      DMPUAS15     (ushort: 12)
     pfls15      DMPFLS15     (ushort: 12)
     pss15       DMPSS15      (ushort: 12)
         User, Compacted and Stored Tuple Layout   FACTHRSH
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |                 |
  0 |                  cvd                          |         les15   |
    |---------------+---------------+---------------+---------------|
```

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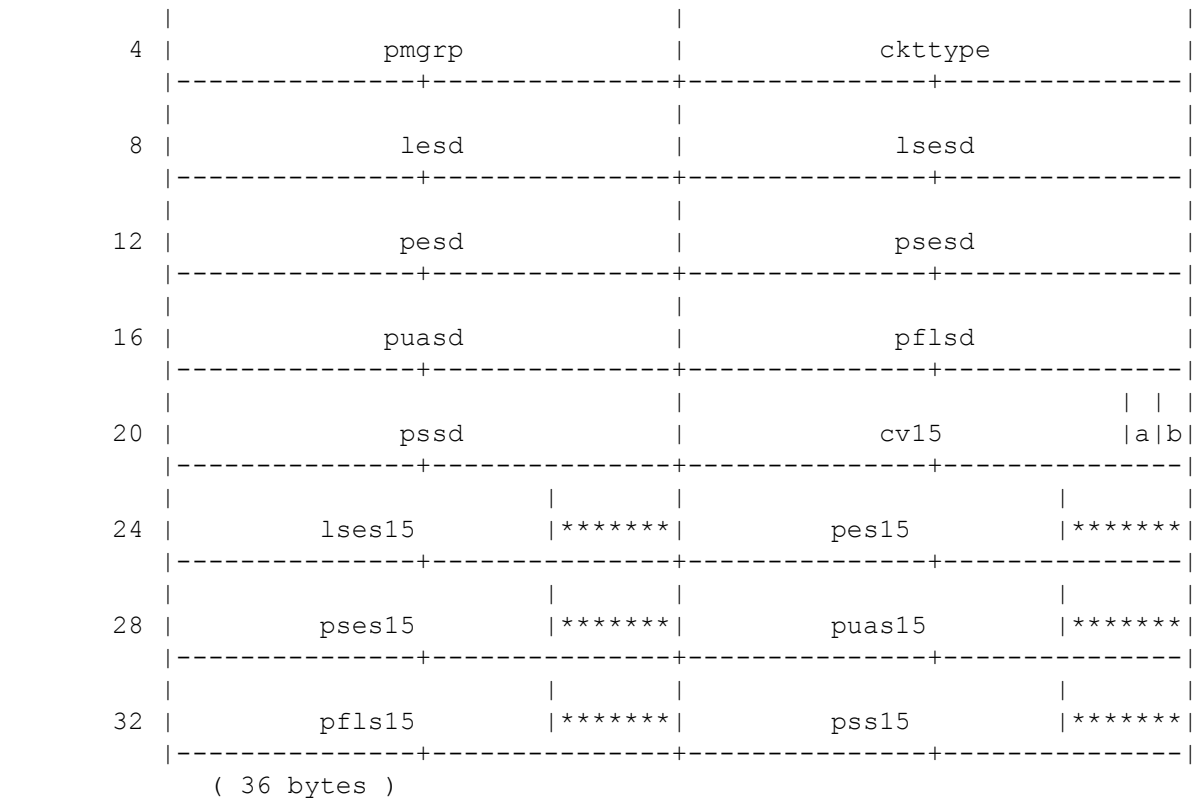


## 4. Population rules for RLfacthrsh

**Relation Description**

Line, Path, and Section Performance Monitoring Thresholds for Facilities
This relation contains the line and path performance monitoring alert thresholds that are associated with facilities. Tuples are created, modified, or deleted when performance monitoring groups are modified via recent change or ODA.
A performance monitoring group defines the thresholds and inhibits that will be set for one or more DS1s in both the integrated digital carrier unit (IDCU) and remote terminals (RTs).
A performance monitoring group can define the thresholds and inhibits that will be set for Digital Networking Unit-SONET (DNU-S) facilities also. Performance Monitoring of the following DNU-S facilities is supported:

- OC-3 SONET Termination Equipment (OC3STE)
- STSX-1 SONET Termination Equipment (EC1STE)
- Virtual Tributary 1.5 (VT1FAC)
- Digital Signal Level 1 (DS1SFAC)

A line is a physical connection that may carry a portion or all of one or more paths. A path is a connection between two points, independent of the physical means of transporting the signal.
The following parameters contains thresholds in this relation:
Errored Second - an errored second is an asynchronous one-second interval with one or more bipolar violations. A T1 bipolar violation

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occurs when two consecutive bits are received with the same polarity, excluding B8ZS coding.
Severely Errored Second - a severely errored second is an asynchronous second containing k or more bipolar violations, where k is the value of the global parameter Glfsesdef.
Frame Loss Second - a frame loss second is a second in which one or more out-of-frame events have occurred.
Unavailable Second - an unavailable second is an asynchronous second with a failed signal condition.
Slip Second - a slip second is an asynchronous second in which there are one or more uncontrolled slips. An uncontrolled slip occurs when the DS1's signal is not synchronized to the switch's timing source.

**Attribute:**
pmgrp
**Fullname:**
Performance Monitoring Group
**Attribute Description:**
This is the performance monitoring group ID.

**Attribute:**
ckttype
**Fullname:**
Type of Facility
**Attribute Description:**
This attribute defines the type of facility.
IDCU and DNU-S facilities are supported.

**Attribute:**
lesd
**Fullname:**
Line Errored Seconds Daily Alerting Threshold
**Attribute Description:**
This is the daily alerting threshold for line errored seconds.

**Attribute:**
les15
**Fullname:**
Line Errored Seconds 15 Minute Alerting Threshold
**Attribute Description:**
This is the 15 minute alerting threshold for line errored seconds.

**Attribute:**
lsesd
**Fullname:**
Line Severely Errored Seconds Daily Alerting Threshold
**Attribute Description:**

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This is the daily alerting threshold for line severely errored seconds.

**Attribute:**
lses15
**Fullname:**
Line Severely Errored Seconds 15 Minute Alerting Threshold
**Attribute Description:**
This is the 15 minute alerting threshold for line severely errored seconds.

**Attribute:**
pesd
**Fullname:**
Path Errored Seconds Daily Alerting Threshold
**Attribute Description:**
This is the daily alerting threshold for path errored seconds.

**Attribute:**
pes15
**Fullname:**
Path Errored Seconds 15 Minute Alerting Threshold
**Attribute Description:**
This is the 15 minute alerting threshold for path errored seconds.

**Attribute:**
psesd
**Fullname:**
Path Severely Errored Seconds Daily Alerting Threshold
**Attribute Description:**
This is the daily alerting threshold for path severely errored seconds.

**Attribute:**
pses15
**Fullname:**
Path Severely Errored Seconds 15 Minute Alerting Threshold
**Attribute Description:**
This is the 15 minute alerting threshold for path severely errored seconds.

**Attribute:**
puasd
**Fullname:**
Path Unavailable Seconds Daily Alerting Threshold
**Attribute Description:**
This is the daily alerting threshold for path unavailable seconds.

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**Attribute:**
puas15
**Fullname:**
Path Unavailable Seconds 15 Minute Alerting Threshold
**Attribute Description:**
This is the 15 minute alerting threshold for path unavailable seconds.

**Attribute:**
pflsd
**Fullname:**
Path Frame Loss Seconds Daily Alerting Threshold
**Attribute Description:**
This is the daily alerting threshold for path frame loss seconds. This is also called the severely errored frame seconds threshold. For a PM group associated with a DNU-S STE facility this is a section threshold rather than a path threshold.

**Attribute:**
pfls15
**Fullname:**
Path Frame Loss Seconds 15 Minute Alerting Threshold
**Attribute Description:**
This is the 15 minute alerting threshold for path frame loss seconds. This is also called the severely errored frame seconds threshold. For a PM group associated with a DNU-S STE facility this is a section threshold rather than a path threshold.

**Attribute:**
pssd
**Fullname:**
Path Slip Seconds Daily Alerting Threshold
**Attribute Description:**
This is the daily alerting threshold for path slip seconds.

**Attribute:**
pss15
**Fullname:**
Path Slip Seconds 15 Minute Alerting Threshold
**Attribute Description:**
This is the 15 minute alerting threshold for path slip seconds.

**Attribute:**
inh15
**Fullname:**
Condition of 15 Minute Alerts

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**Attribute Description:**
This is the condition (inhibited or allowed) of 15 minute alerts. DBYES indicated that 15 minute alerts are inhibited. DBNO indicates that 15 minute alerts are allowed.

**Attribute:**
inhday
**Fullname:**
Condition of Daily Alerts
**Attribute Description:**
This is the condition (inhibited or allowed) of daily alerts. DBYES indicates that daily alerts are inhibited. DBNO indicates that daily alerts are allowed.

**Attribute:**
cvd
**Fullname:**
Coding Violation Daily Alerting Threshold
**Attribute Description:**
This is the daily alerting threshold for coding violations.

**Attribute:**
cv15
**Fullname:**
Coding Violation 15 Minute Alerting Threshold
**Attribute Description:**
This is the 15 minute alerting threshold for coding violations.

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# FACTODSC

## 1. Description

Time of day descriptor: contains information about a time of day list needed during feature assignment.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65535 |
| expected number of tuples | 30 |
| access type | DBACC_CIND |
| memory type | DBDISK |
| distribution | DO |
| application | RCMAP |
| relation type | DBSTATIC |
| ks - keystore | AUTO |

## 3. Field Layout

```
FACTODSC    relid = 483   DBSTATIC   DBACC_CIND  DBDISK    DO      DDBM
     todid       DMFACID      (ushort)     <--- key, not stored
     dplanid     DMFACID      (ushort)
     lport       DMLPORT      (ushort: 16)
     lport_mod   DMMODULE     (ushort: 8)
     das         DMDA_TREE    (ushort: 7)
 (a) lpt_type    DMLPT_TYPE   (enum: 2)
         User and Compacted Tuple Layout   FACTODSC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              todid            |*******************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            dplanid            |             lport             |
    |---------------+---------------+---------------+---------------|
    |               |             | |   |                           |
  8 |   lport_mod   |     das     |*| a |***************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
     dplanid     DMFACID      (ushort)
     lport       DMLPORT      (ushort: 16)
     lport_mod   DMMODULE     (ushort: 8)
     das         DMDA_TREE    (ushort: 7)
 (a) lpt_type    DMLPT_TYPE   (enum: 2)
           Stored Tuple Layout     FACTODSC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            dplanid            |             lport             |
    |---------------+---------------+---------------+---------------|
    |               |             | |   |                           |
  4 |   lport_mod   |     das     |*| a |***************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

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## 4. Population Rules for RLfactodsc

**Relation Description** This relation contains information about a time of day list needed during feature assignment.

There is a tuple in this relation for each time of day code list defined.

**Attribute: todid**

**Fullname:** Time of day list identifier

**Attribute Description** This attribute indicates the time of day list identifier.

**Attribute: dplanid**

**Fullname:** Dialing plan identifier

**Attribute Description** This attribute indicates the internal dialing plan identifier of the associated internal dialing plan.

**Attribute: das**

**Fullname:** Digit analysis selector

**Attribute Description** This attribute is the digit analysis selector, used to determine which table to start at.

**Attribute: lport_mod**

**Fullname:** Logical port module

**Attribute Description** This attribute identifies the switching module on which the owner's logical port is located.

**Attribute: lport**

**Fullname:** Logical port

**Attribute Description** This attribute identifies the logical port of the owner of the time of day list.

**Attribute: lpt_type**

**Fullname:** lport type

**Attribute Description** This attribute is the logical port type of the user owning the time of day list.

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# FC_4WIRE

## 1. Description

Parameters for 4-wire subscriber lines.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4096 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| ks key store option | DBNO |
| trigger function | PCfc_4wiretrg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
FC_4WIRE    relid = 791   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     port        DMGPORT      (struct)  <--- key, not stored, compacted
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
  (a) routine_ring  DMRNGPAT     (enum: 5)
  (b) audible_ring  DMBOOL       (enum: 1)
  (c) esp         DMBOOL       (enum: 1)
  (d) conf_bridge  DMBOOL       (enum: 1)
  (e) priority_ring  DMRNGPAT     (enum: 5)
  (f) in_startsig  DMSTARTSIG   (enum: 4)
           User Tuple Layout      FC_4WIRE
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============  port ============+===============|
    |                                 |                |               |
  0 |             member              |****************|     module    |
    |===============+===============+================+===============|
    |         | | | |         |     |       |                        |
  4 |    a    |b|c|d|    e    |*****|   f   |************************|
    |---------------+---------------+----------------+---------------|
       ( 8 bytes )
     port        DMPORT       (ushort)     <--- key, not stored, compacted
  (a) routine_ring  DMRNGPAT     (enum: 5)
  (b) audible_ring  DMBOOL       (enum: 1)
  (c) esp         DMBOOL       (enum: 1)
  (d) conf_bridge  DMBOOL       (enum: 1)
  (e) priority_ring  DMRNGPAT     (enum: 5)
  (f) in_startsig  DMSTARTSIG   (enum: 4)
         Compacted Tuple Layout   FC_4WIRE
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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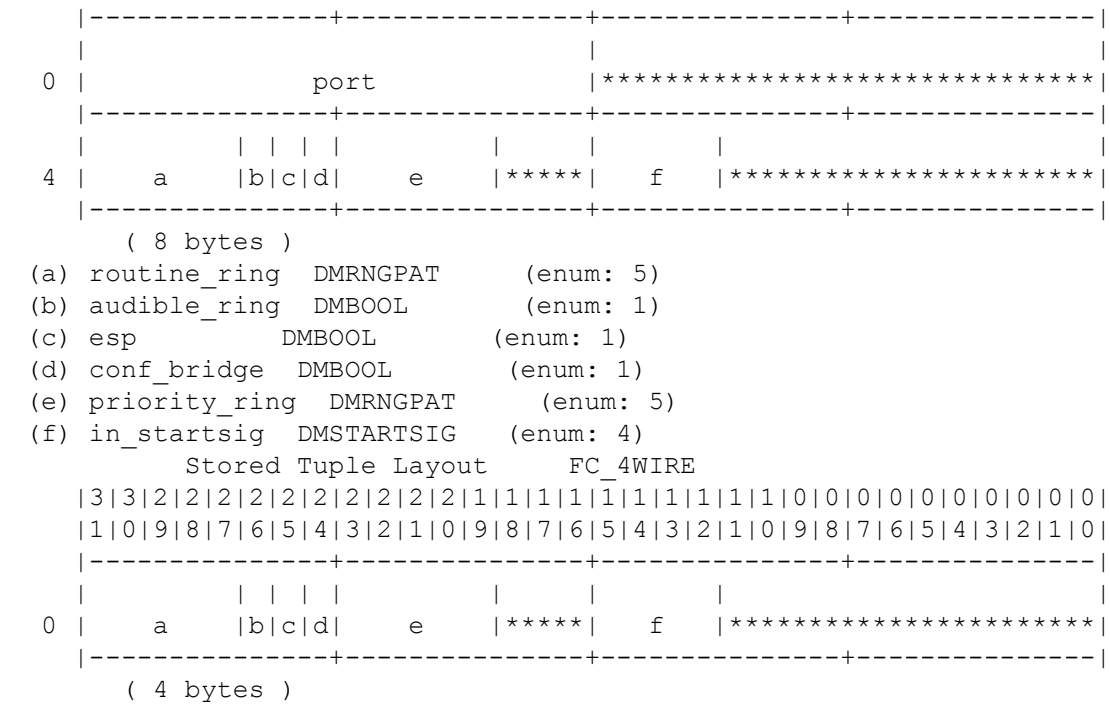


## 4. Population Rules for RLfc_4wire

**Relation Description** 4-wire subscriber lines
This relation contains parameters for 4-wire subscriber lines.

**Attribute: port**

**Fullname:** Logical port

**Attribute Description** This attribute is the key for this relation and is divided into sub-attributes port.member and port.module. The structure members are:

(1) member (DMport): Port name of a port

(2) module (DMmodule): The SM number that this port terminates on

**Attribute: port.member**

**Fullname:** Member

**Attribute Description** The port name of a port.

**Attribute: port.module**

**Fullname:** Module

**Attribute Description** The SM number that this port terminates on. NOTE: The lead_module cannot equal an SM number that has the SM Global Parameter, Glconfigname, set to D_BASIC.

**Attribute: routine_ring**

**Fullname:** Routine ringing

**Attribute Description** Indicates the type of routine ringing (routine PP calls and non-PP calls).

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**Attribute: priority_ring**

**Fullname:** Priority ringing

**Attribute Description** Indicates the type of priority ringing.

**Attribute: audible_ring**

**Fullname:** Audible ring

**Attribute Description** Indicates whether the 4-wire subscriber line equipment provides its own audible ring.

**Attribute: in_startsig**

**Fullname:** Incoming start signal

**Attribute Description** The incoming start signal type.

**Attribute: esp**

**Fullname:** Essential service protected

**Attribute Description** Indicates whether or not this 4-wire port is essential service protected.

**Attribute: conf_bridge**

**Fullname:** Conference bridge

**Attribute Description** Indicates whether a 4-wire port is a conference bridge connection or not.

**Defines:** "db/DMparty.h"

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# FC_911TRNK

## 1. Description

911 trunk information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 24192 |
| expected tuples in relation | 2 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 5 |

## 3. Field Layout

```
FC_911TRNK  relid = 22    DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     port        DMGPORT      (struct)     <--- key
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
  (a) ring_back   DMBOOL       (enum: 1)
  (b) statusmon   DMBOOL       (enum: 1)
  (c) tondet      DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout FC_911TRNK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============  port ============+===============|
    |                                 |                |               |
  0 |              member             |****************|     module    |
    |===============+===============+================+===============|
    | | | |                                                           |
  4 |a|b|c|***********************************************************|
    |---------------+---------------+----------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLfc_911trnk

**Relation Description** 911 trunk
911 trunk information.

**Attribute: port**

**Fullname:** Port

**Attribute Description** Logical port with servclass of FC_911. This is a structure with subattributes port.member and port.module.

**Attribute: port.member**

**Fullname:** Member

**Attribute Description** Port name

**Attribute: port.module**

**Fullname:** Module

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**Attribute Description** The SM number that this port terminates on.

**Attribute: ring_back**

**Fullname:** Ring back

**Attribute Description** Can ring back be requested?

DBYES means flash detection IS enabled and the 911 line has the capability of ringing back the originating line.

DBNO means flash detection is NOT enabled and the 911 line does not have the capability of ringing back the originating line.

**Attribute: statusmon**

**Fullname:** Status monitoring

**Attribute Description** Does service bureau have calling line status monitoring?

If statusmon and tondet are equal to DBYES, then 911 will supply its own status monitoring. If this bit is DBYES, then tondet must also be DBYES if no battery is to be given.

**Attribute: tondet**

**Fullname:** Low tone detector

**Attribute Description** Does service bureau have low tone detector?

DBYES means that the 911 bureau has a tone decoder hooked up and is capable of hearing lowtone, therefore lowtone should be sent by the *5ESS*®-2000 switch to the 911 bureau. If the 911 bureau is to perform its own status monitoring, the tonedet bit must also be set to DBYES.

DBNO means that the 911 bureau does NOT have a tone decoder hooked up and is therefore NOT capable of hearing lowtone if it is sent.

NOTE:

CALLING PARTY FC_911TRNK BITS SIGNAL SENT TO 911 BUREAU RECEIVING STATE

| CHANGE TO: | STATUSMON | TONDET | BATTERY | LOW TONE POLARITY |
|---|---|---|---|---|
| ONHOOK | DBYES | DBYES | N/C | APPLIED |
| ONHOOK | DBYES | DBNO | NORMAL | APPLIED |
| ONHOOK | DBNO | DBYES | NORMAL | APPLIED |
| ONHOOK | DBNO | DBNO | NORMAL | APPLIED |
| OFFHOOK | DBYES | DBYES | N/C | REMOVED |
| OFFHOOK | DBYES | DBNO | REVERSE | REMOVED |
| OFFHOOK | DBNO | DBYES | REVERSE | REMOVED |
| OFFHOOK | DBNO | DBNO | REVERSE | REMOVED |

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# FC_ANOUNCE

## 1. Description

Announcement Data

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 648 |
| expected tuples in relation | 9 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | RTrc_annc |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| density | 25 |

## 3. Field Layout

```
FC_ANOUNCE  relid = 16    DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     port        DMGPORT      (struct)     <--- key
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     ann_time    DMSECOND     (ushort: 8)
     maxcalls    DMUNS8       (ushort: 8)
  (a) cycles      DMANCYCL     (ushort: 3)
  (b) ra_type     DMRATYPE     (enum: 2)
  (c) bargein     DMBOOL       (enum: 1)
  (d) fcaudible   DMBOOL       (enum: 1)
  (e) retry       DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout FC_ANOUNCE
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============  port ============+===============|
    |                                |                |               |
  0 |              member            |****************|     module    |
    |===============+===============+===============+===============|
    |               |               |     |   | | | |               |
  4 |    ann_time   |    maxcalls   |  a  | b |c|d|e|***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLfc_anounce

**Relation Description** Announcement Data
This relation contains the information associated with announcements from a 13A or 13A-like announcement device.

There must be a tuple of this relation for each announcement or music source used in a ANNOUNC or MUSIC step used in the RLcv_vectr relation. Since Call Vectoring must allow for 512 different announcements and 128 different music sources, a minimum of 640 tuples are needed for C-ACD.

**Attribute: port**

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**Fullname:** Announcement Port Definition

**Attribute Description** This attribute defines the trunk group member and interface module to which the announcement unit providing the desired announcement is connected.

**Attribute: port.member**

**Fullname:** Announcement Port Trunk Group Member Identifier

**Attribute Description** This is the port name of a trunks that should be assigned as an announcement trunk in relation RLfc_trunk.

**Attribute: port.module**

**Fullname:** Announcement Port Interface Module Identifier

**Attribute Description** This attribute refers to the Interface Module in which this trunk is located.

**Attribute: cycles**

**Fullname:** Number of Message Cycles

**Attribute Description** This is the number of times an announcement is repeated per call. For local coin overtime announcement, this attribute should be set to 1. Also, for a 15A Cascading Announcement trunk group, cycles must be set to 1. The attribute domain is 0 through 7. The larger numbers of cycles are used for Commercial Automatic Call Distribution features. The value of 0 (no cycle counting) permits bargein announcements to continue playing until the far end terminal process drops the path to the announcement terminal process (this is used for music sources).

**CAUTION:** If you use a value of 0 for bargein type announcements (bargein = DBYES). This combination might allow only a partial announcement cycle to complete.

**Attribute: bargein**

**Fullname:** Barge-in Announcement Type Identifier

**Attribute Description** If an enumeration of DBYES is used, this allows a call to barge in while the message is being played instead of at the beginning of the announcement cycle. This allows calls to be connected to the announcement faster but only if it is acceptable that the caller hear the announcement begin at an arbitrary point.

When bargein is set to DBYES, the attribute fcaudible should be set to DBNO. For music sources, cycles must be set to 0 to allow a call to be connected to music indefinitely. For a non-Cascading Announcement Trunk Group (non-15A), if bargein is set to DBNO, the message cycle length of a nonbarge-in message should not be greater than 18 seconds, and the attribute fcaudible should be set to DBYES. For Local Coin Overtime Announcement, this attribute should be set to DBNO.

For 15A Cascading Announcement trunk groups, barge-in is not allowed. That is, bargein must be DBNO. However, fcaudible may be either DBYES or DBNO.

**Attribute: fcaudible**

**Fullname:** Audible Ring for Delay

**Attribute Description** If an enumeration of DBYES is used, this provides audible ringing tone to the calling facility. If DBNO is used, no audible ringing tone will be provided. The default for nonbarge-in announcements is DBYES. For Local Coin Overtime Announcement, this attribute should be set to DBNO.

**Attribute: ra_type**

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**Fullname:** Recorder Announcement Type

**Attribute Description** Recorded announcement type. An enumeration of FCRA_NBARGE indicates a non-barge in announcement, meaning that a call must wait for the beginning of an announcement cycle. FCRA_BARGE allows a call barge in while the message is being played, instead of at the beginning of the announcement cycle. This allows many calls to be handled at the same time. In either case, FCRA_NBARGE or FCRA_BARGE, the maximum announcement repetition per call is controlled by the variable cycles. FCRA_TBARGE allows call barge in while the message is being played and the caller may listen to the announcement for a period of time determined by the variable ann_time. This attribute is not used by Domestic. Set to FCRA_NBARGE if bargein equals DBNO, FCRA_BARGE if bargein equals DBYES.

**Attribute: ann_time**

**Fullname:** Announcement Time

**Attribute Description** This is the maximum period of time the caller will be allowed to listen to the announcement. This should be long enough for the caller to hear at least one complete cycle from the beginning, even if the barge in occurs in the middle of a cycle. A value of 0 means that the announcement is untimed (That is, the calling party hears the announcement repeatedly until they hang up).

This attribute is only used for International.

**Attribute: maxcalls**

**Fullname:** Maximum Calls allowed to concurrently connect

**Attribute Description** This attribute defines the maximum number of calls that can be connected to this announcement/music port at the same time. Any attempt to attach additional calls will fail. A maxcalls value of 0 corresponds to a blank RC or ODA form field.

For 15A Cascading Announcement trunk groups, maxcalls must be 60.

**Attribute: retry**

**Fullname:** RETRY on route failure

**Attribute Description** This attribute indicates whether RTA should retry when it fails to connect to an announcement port (only useful when not a one member group).

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# FC_CALLFWD

## 1. Description

DNS forwarded to.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 300 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |

## 3. Field Layout

```
FC_CALLFWD  relid = 24    DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     port        DMGPORT      (struct)     <--- key
         member      DGPORT       (ushort)
         module      DMMODULE     (ushort: 8)
 (a) act_idle    DMCFV        (enum: 2)
     dn          DMDN         (struct)
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
         User, Compacted and Stored Tuple Layout FC_CALLFWD
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============  port ============+===============|
    |                                 |               |               |
  0 |              member             |***************|     module    |
    |===============+===============+===============+===============|
    |   |                                                             |
  4 | a |*************************************************************|
    |===============+=============  dn =============+===============|
    |       |       |                                                 |
  8 | digcnt|*******|                       dn                        |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
 12 |                                 dn                              |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
 16 |                                 dn                              |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
 20 |                                 dn                              |
    |===============+===============+===============+===============|
       ( 24 bytes )
```

## 4. Population Rules for RLfc_callfwd

There are no population rules for this relation.

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# FC_CARR

## 1. Description

This relation contains the carrier data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3000 |
| expected number of tuples | 500 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| foldtype | DBGC31 |

## 3. Field Layout

```
FC_CARR     relid = 69    DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL


    carrid      DMCARRID     (array [ 4 ] of char )    <--- key
    ffcf6       DMUNS16      (ushort)
    domes_ri    DMRTEIDX     (ushort: 14)
(a) ad1_ind     DMBOOL       (enum: 1)
(b) tcut_call   DMBOOL       (enum: 1)
    intl_ri     DMRTEIDX     (ushort: 14)
(c) ovlap_ind   DMBOOL       (enum: 1)
(d) sacovlap    DMBOOL       (enum: 1)
    zminus_ri   DMRTEIDX     (ushort: 14)
(e) long_rec    DMBOOL       (enum: 1)
(f) dig_route   DMBOOL       (enum: 1)
    ad1_ri      DMRTEIDX     (ushort: 14)
(g) coin_easig  DMBOOL       (enum: 1)
(h) cac_screen  DMBOOL       (enum: 1)
    tcut_ri     DMRTEIDX     (ushort: 14)
(i) osps_icos   DMBOOL       (enum: 1)
(j) osps_iclata  DMBOOL       (enum: 1)
    zplus_ri    DMRTEIDX     (ushort: 14)
(k) send_ani    DMBOOL       (enum: 1)
(l) iclatazp    DMBOOL       (enum: 1)
    intlop_ri   DMRTEIDX     (ushort: 14)
(m) iclatazm    DMBOOL       (enum: 1)
(n) ac_iclata_ovr  DMBOOL       (enum: 1)
    ns_ri       DMRTEIDX     (ushort: 14)
(o) o_bltrig_inh  DMBOOL       (enum: 1)
(p) o_natrig_inh  DMBOOL       (enum: 1)
    pvn_ri      DMRTEIDX     (ushort: 14)
(q) altlsp      DMBOOL       (enum: 1)
(r) intraswitch  DMBOOL       (enum: 1)
    tfree_ri    DMRTEIDX     (ushort: 14)
(s) tf_ii_subs  DMBOOL       (enum: 1)
(t) def_ii_subs  DMBOOL       (enum: 1)
    domes_di    DMDESTIDX    (ushort: 12)
(u) carr_tp     DMCARR_TP    (enum: 3)
(v) intra_ind   DMBOOL       (enum: 1)
```

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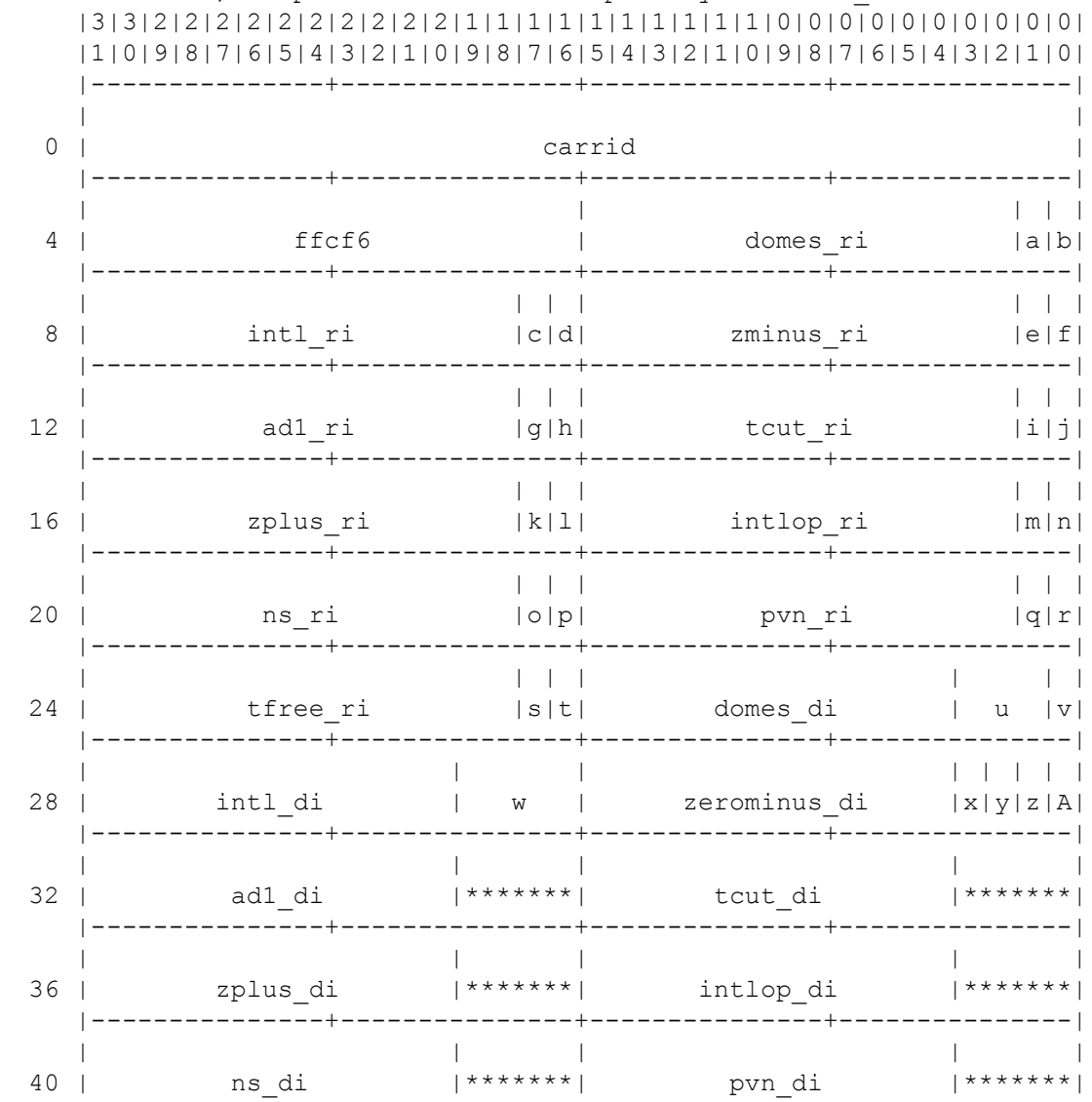
```
    intl_di      DMDESTIDX    (ushort: 12)
(w) ci_acctp     DMCI_ACCTP   (enum: 4)
    zerominus_di  DMDESTIDX    (ushort: 12)
(x) ffcf1        DMBOOL       (enum: 1)
(y) ffcf2        DMBOOL       (enum: 1)
(z) ffcf3        DMBOOL       (enum: 1)
(A) ffcf4        DMBOOL       (enum: 1)
    ad1_di       DMDESTIDX    (ushort: 12)
    tcut_di      DMDESTIDX    (ushort: 12)
    zplus_di     DMDESTIDX    (ushort: 12)
    intlop_di    DMDESTIDX    (ushort: 12)
    ns_di        DMDESTIDX    (ushort: 12)
    pvn_di       DMDESTIDX    (ushort: 12)
    tfree_di     DMDESTIDX    (ushort: 12)
    trignum      DMUNS8       (ushort: 8)
    ffcf5        DMUNS8       (ushort: 8)
(B) scd_map_idx  DMUNS5        (ushort: 5)
    scd_line_cnt  DMULONG       (ulong)
```

User, Compacted and Stored Tuple Layout FC_CARR

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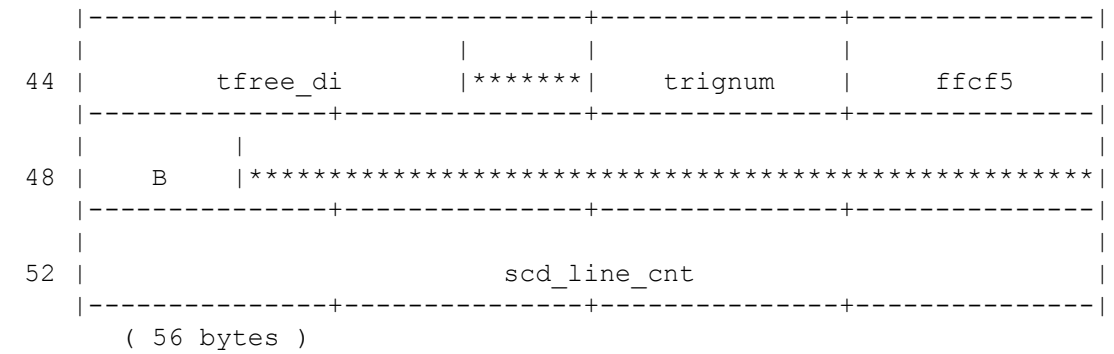


## 4. Population rules for RLfc_carr

### Relation Description

Feature group D (FGD) Carrier data

This relation contains Feature Group D Carrier data Only.

**Attribute:**
carrid
**Fullname:**
Carrier id
**Attribute Description:**
Carrid indicates the carrier identifier.
It must be entered as a 4 digit character string, where each
of the characters can be '0' thru '9'.

**Attribute:**
intra_ind
**Fullname:**
Intraexchange indicator
**Attribute Description:**
Set to DBYES if the carrier accepts intra-LATA calls.

**Attribute:**
ad1_ind
**Fullname:**
AD1 indicator
**Attribute Description:**
Set to DBYES if the carrier allows abbreviated dialing
(FGD Carrier Access Code, CAC + #).

**Attribute:**
ovlap_ind
**Fullname:**
Overlap outpulse indicator
**Attribute Description:**

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Set to DBYES if overlap outpulsing should be attempted for 'non-service access code' calls.

**Attribute:**
sacovlap
**Fullname:**
Service Access Code overlap outpulse indicator
**Attribute Description:**
Set to DBYES if overlap outpulsing should be attempted for service access code (SAC) calls.

**Attribute:**
ci_acctp
**Fullname:**
Access type
**Attribute Description:**
Indicates the dialing access allowed by the carrier.

**Attribute:**
carr_tp
**Fullname:**
Carrier type
**Attribute Description:**
Indicates the type of carrier.

**Attribute:**
domes_di
**Fullname:**
Domestic destination index
**Attribute Description:**
The destination index for domestic U.S. calls

**Attribute:**
intl_di
**Fullname:**
International destination index
**Attribute Description:**
The destination index for international calls.

**Attribute:**
zerominus_di
**Fullname:**
Zero minus destination index
**Attribute Description:**
The destination index for calls dialed 0-.

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**Attribute:**
ad1_di
**Fullname:**
AD1 destination index
**Attribute Description:**
The destination index for calls dialed with Feature Group D Carrier Access Code (CAC) + #, that is, carrier cut-thru calls.

**Attribute:**
zplus_di
**Fullname:**
Zero plus destination index
**Attribute Description:**
The destination index for calls dialed 0+.

**Attribute:**
intlop_di
**Fullname:**
International zero plus destination index
**Attribute Description:**
The destination index for calls dialed 01+ (international 0+).

**Attribute:**
ns_di
**Fullname:**
Number service destination index
**Attribute Description:**
A destination index which results in routing to carrier trunks.

**Attribute:**
pvn_di
**Fullname:**
Private virtual network destination index
**Attribute Description:**
A destination index which results in routing to carrier trunks.

**Attribute:**
tfree_di
**Fullname:**
ASP Tollfree destination index
**Attribute Description:**
A destination index used for ASP Tollfree calls

**Attribute:**
long_rec

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**Fullname:**
Long billing record
**Attribute Description:**
Set to DBYES indicates a terminating detailed (long) billing record should be generated.

**Attribute:**
dig_route
**Fullname:**
Route on dialed digits
**Attribute Description:**
Set to DBYES if calls to this carrier should be routed based on the dialed digits.
The Circuit Switch Tandem (CST) secured feature applies to carr_tp of TYPE_PSEUDO only. Dig_route must be DBYES if the secured feature, Circuit Switch Tandem (CST) (#SFID006), has been purchased and turned on, otherwise must be DBNO.

**Attribute:**
coin_easig
**Fullname:**
Coin_easig
**Attribute Description:**
This bit is used to indicate that overlap outpulsing should be used for a TAISP coin call. For this bit to be set to DBYES, the overlap_indi attribute must also be set to DBYES.

**Attribute:**
cac_screen
**Fullname:**
Charge-a-call screening
**Attribute Description:**
Set to DBYES if and only if this carrier wants normal charge-a-call screening, that is, set to DBYES if the carrier wants non-free calls from charge-a-call phones blocked in the same way they are currently blocked if they are BOC calls.
Set to DBNO if the carrier wants to receive all calls from charge-a-call lines.

**Attribute:**
domes_ri
**Fullname:**
Domestic route index
**Attribute Description:**
Route index for domestic U.S. calls.

**Attribute:**
intl_ri

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**Fullname:**
International route index
**Attribute Description:**
Route index for international calls.

**Attribute:**
zminus_ri
**Fullname:**
Zero minus route index
**Attribute Description:**
Route index for calls dialed 0-.

**Attribute:**
ad1_ri
**Fullname:**
AD1 route index
**Attribute Description:**
Route index for calls dialed with Feature Group D Carrier Access Code (CAC) + #, that is, carrier cut-thru calls.

**Attribute:**
zplus_ri
**Fullname:**
Zero plus route index
**Attribute Description:**
Route index for calls dialed 0+.

**Attribute:**
intlop_ri
**Fullname:**
International zero plus route index
**Attribute Description:**
Route index for calls dialed 01+ (international 0+).

**Attribute:**
ns_ri
**Fullname:**
Number services route index
**Attribute Description:**
Route index for number services calls.

**Attribute:**
pvn_ri
**Fullname:**
Private virtual network route index
**Attribute Description:**
A route index which results in routing to carrier trunks.

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**Attribute:**
tfree_ri
**Fullname:**
ASP Tollfree route index
**Attribute Description:**
A route index used for ASP Tollfree calls

**Attribute:**
osps_icos
**Fullname:**
Operator services indicator for Inter-LATA calls
**Attribute Description:**
An indicator as to whether or not the carrier wants LEC operator services for Inter-LATA calls. Indicator is set to DBYES when LEC operator services are wanted.

**Attribute:**
osps_iclata
**Fullname:**
Operator services indicator for ICLATA calls
**Attribute Description:**
An indicator as to whether or not the carrier wants LEC operator services for ICLATA-type (Intra-LATA-Toll) calls. Indicator is set to DBYES when LEC operator services are wanted.

**Attribute:**
scd_map_idx
**Fullname:**
Selective Carrier Denial (SCD) carrier map index
**Attribute Description:**
Set to bit position in RLscd_scrn.carr_map for this carrier. Each carrier which requires SCD screening must have its own unique nonzero value for scd_map_idx. Each carrier which does not require SCD screening should have a zero value for scd_map_idx.

**Attribute:**
scd_line_cnt
**Fullname:**
Selective Carrier Denial (SCD) carrier line count
**Attribute Description:**
Set to the number of lines screened for this carrier.

**Attribute:**
send_ani
**Fullname:**

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Send SCRIDX associated ANI II digits flag.

**Attribute Description:**

DBYES indicates that the carrier is allowed to send the screening index (SCRIDX) associated ANI II digits. send_ani can only be DBYES if the secured feature, Flexible ANI Enhancements (FANI-E, SFID142), has been purchased and turned on, otherwise must be DBNO.

**Attribute:**

iclatazp

**Fullname:**

Inter-LATA Carrier's Intra-LATA Capability (ICLATA) 0+ calls Option Indicator.

**Attribute Description:**

DBYES indicates that the LEC is handling the ICLATA 0+ calls instead of this carrier. DBNO indicates that this carrier is handling the ICLATA 0+ calls. The iclatazp can only be DBYES, if the secured feature, ICLATA (SFID 149), has been purchased and turned on, otherwise must be DBNO.

**Attribute:**

iclatazm

**Fullname:**

Inter-LATA Carrier's Intra-LATA Capability (ICLATA) 0- calls Option Indicator.

**Attribute Description:**

DBYES indicates that the LEC is handling the ICLATA 0- calls instead of this carrier. DBNO indicates that this carrier is handling the ICLATA 0- calls. The iclatazm can only be DBYES, if the secured feature, ICLATA (SFID 149), has been purchased and turned on, otherwise must be DBNO.

**Attribute:**

o_bltrig_inh

**Fullname:**

Originating Busy Line Trigger Inhibit

**Attribute Description:**

This attribute will be used to indicate whether or not to inhibit the office Originating Busy Line Trigger. Default for this attribute is DBNO. When set to DBYES, the busy line trigger will be inhibited for this carrier. This attribute is secured by SFID #212.
This functionality was provided by ffcf3 in 5e11.

**Attribute:**

o_natrig_inh

**Fullname:**

Originating No Answer Trigger Inhibit

**Attribute Description:**

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This attribute will be used to indicate whether or not to inhibit the office Originating No Answer Trigger. Default for this attribute is DBNO. When set to DBYES, the no answer trigger will be inhibited for this carrier. This attribute is secured by SFID #212.
This functionality was provided by ffcf4 in 5e11.

**Attribute:**
ac_iclata_ovr
**Fullname:**
Deny Automatic Callback on ICLATA per cic Over-ride.
**Attribute Description:**
Per CIC option indicator for Deny AC on ICLATA PIC calls(Phase-2).
For a non-LEC CIC:
DBYES indicates that the AC/AR should NOT be blocked for ICLATA PIC Calls to private DNs(Feature over-ride).
DBNO indicates that the AC/AR should be blocked for ICLATA PIC Calls to private DNs.

For a LEC CIC:
DBNO is the only valid setting, and the AC/AR should NOT be blocked for ICLATA PIC calls to private DNs.

The ac_iclata_ovr can only be set to DBYES, if the secured feature for Deny
AC on ICLATA PIC calls (SFID 201), has been purchased and turned on.

**Attribute:**
trignum
**Fullname:**
ASP Carrier Trigger Number.
**Attribute Description:**
ASP trigger number defined on the carrier

The trigger number can only be set, if the secured feature for ASP Carrier Routing (SFID 243) has been purchased and turned on.

**Attribute:**
altlsp
**Fullname:**
Alternate local service provider indicator.
**Attribute Description:**
This attribute indicates that the carrier is an alternate local service provider.

**Attribute:**
intraswitch
**Fullname:**
Indicator to route intra-switch calls.

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**Attribute Description:**
This attribute provides the option to route (None/1)+ 7/10 digit non-operator assisted intra-switch calls to the PLC instead of the LEC carrier.

**Attribute:**
tcut_call
**Fullname:**
Indicator for FGD Tandem Cut-thru calls
**Attribute Description:**
Indicates whether a FGD cutthru call is tandemed to another carrier

**Attribute:**
tcut_ri
**Fullname:**
Routing index for a FGD Tandem Cut-thru call
**Attribute Description:**
Routing index for a FGD Tandem Cut-thru call

**Attribute:**
tcut_di
**Fullname:**
Destination index for a FGD Tandem Cut-thru call
**Attribute Description:**
Destination index for a FGD Tandem Cut-thru call

**Attribute:**
tf_ii_subs
**Fullname:**
Toll Free ANI II subscription indicator.
**Attribute Description:**
Indicates if the carrier allows ANI II mapping for NS800 translated calls.
This can only be set if the secured feature SFID(332) has been purchased and turned on.

**Attribute:**
def_ii_subs
**Fullname:**
Default ANI II subscription indicator.
**Attribute Description:**
Indicates if the carrier allows ANI II mapping for NS800 Non-translated calls.
This can only be set if the secured feature SFID(332) has been purchased and turned on.

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**Attribute:**
ffcf1
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

**Attribute:**
ffcf2
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

**Attribute:**
ffcf3
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

**Attribute:**
ffcf4
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

**Attribute:**
ffcf5
**Fullname:**
Unsigned 8 bits reserved for future field feature
**Attribute Description:**
See fullname description

**Attribute:**
ffcf6
**Fullname:**
Unsigned 16 bits reserved for future field feature
**Attribute Description:**
See fullname description

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# FC_COINCHG

## 1. Description

Charge info for coin phone calls.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
FC_COINCHG  relid = 91    DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     chrgtabl_x  DMSHORT      (short)     <--- key
 (a) fcc_inpd    DMFCC_TMPD   (ushort: 3)
 (b) fcc_ovpd    DMFCC_TMPD   (ushort: 3)
 (c) fcc_cltp    DMFCC_CLTP     (enum: 2)
 (d)  ffcf1       DMBOOL          (enum: 1)
 (e) ffcf2       DMBOOL       (enum: 1)
 (f) ffcf3       DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout FC_COINCHG
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |     |     |   | | | |         |
 0 |           chrgtabl_x          |  a  |  b  | c |d|e|f|*********|
   |---------------+---------------+---------------+---------------|
      ( 4 bytes )
```

## 4. Population Rules for RLfc_coinchg

**Relation Description** Coin charge
Charge information for coin phone calls.

This relation is not populated for Export.

**Attribute: chrgtabl_x**

**Fullname:** Charge table index

**Attribute Description** This index is used in relation CHRGIDXEXP, a call processing relation. The check for this attribute is done in that relation.

**Attribute: fcc_cltp**

**Fullname:** Destination type

**Attribute Description** There are four possible enumeration types that a coin call may be. FCC_LOCL is local and is charged accordingly. FCC_FREE is a free call and the coin, if used, would be returned. FCC_OPR is a call to the operator. FCC_LOVT is a local overtime call used for charging purposes.

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**Attribute: fcc_inpd**

**Fullname:** Local overtime initial time period

**Attribute Description** When enumeration FCC_LOVT is used, the attribute should be populated with a number from 1 to 7. If the enumeration is not used, then this attribute should be populated with a zero.

**Attribute: fcc_ovpd**

**Fullname:** Local overtime time period

**Attribute Description** When enumeration FCC_LOVT is used, this attribute should be populated with a number from 1 to 7. If the enumeration is not used, then this attribute should be populated with a zero.

**Attribute: ffcf[*]**

**Fullname:** Future field

**Attribute Description** future field feature use.

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# FC_DIOPR

## 1. Description

Operator system details.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 75 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |

## 3. Field Layout

```
FC_DIOPR    relid = 340   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     carrid      DMBCARID     (ushort: 14)     <--- key
 (a) bcarrier    DMBOOL       (enum: 1)     <--- key
 (b) pri_ovlp    DMBOOL       (enum: 1)
     pri_dix     DMDESTIDX    (ushort: 12)
 (c) cn_ovlp     DMBOOL       (enum: 1)
 (d) aq_ovlp     DMBOOL       (enum: 1)
 (e) vq_ovlp     DMBOOL       (enum: 1)
 (f) nc950_ovlp  DMBOOL       (enum: 1)
     cn_dix      DMDESTIDX    (ushort: 12)
 (g) op950_ovlp  DMBOOL       (enum: 1)
 (h) zp950_ovlp  DMBOOL       (enum: 1)
 (i) tc_ovlp     DMBOOL       (enum: 1)
     aq_dix      DMDESTIDX    (ushort: 12)
     vq_dix      DMDESTIDX    (ushort: 12)
     nc950_dix   DMDESTIDX    (ushort: 12)
     op950_dix   DMDESTIDX    (ushort: 12)
     zp950_dix   DMDESTIDX    (ushort: 12)
     tc_dix      DMDESTIDX    (ushort: 12)
     traf_rest   DMTREST      (ushort: 6)
         User, Compacted and Stored Tuple Layout   FC_DIOPR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           | | |                       | | | | |
  0 |           carrid          |a|b|        pri_dix        |c|d|e|f|
    |---------------+---------------+---------------+---------------|
    |                       | | | | |                       |       |
  4 |         cn_dix        |g|h|i|*|         aq_dix        |*******|
    |---------------+---------------+---------------+---------------|
    |                       |       |                       |       |
  8 |         vq_dix        |*******|       nc950_dix       |*******|
    |---------------+---------------+---------------+---------------|
    |                       |       |                       |       |
 12 |       op950_dix       |*******|       zp950_dix       |*******|
    |---------------+---------------+---------------+---------------|
    |                       |       |           |                   |
```

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```
 16 |         tc_dix        |*******| traf_rest |******************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population Rules for RLfc_diopr

**Relation Description** Destination index for operator.

The RLfc_diopr relation is used by the intermediate switching point (ISP) feature. The non-key attributes consist of the primary destination index, primary overlap outpulse indicator and a six bits to determine traffic restriction associated with a particular carrier. If traffic restrictions do exist (a value greater than 0), then an alternate destination index and overlap outpulse indicator will be populated for the traffic type affected by the restriction. The alternate destination indexes and overlap outpulse indicators are provided for the following traffic types:

1) coin traffic,
2) ACQS auto quote,
3) ACQS voice quote,
4) 950 coin traffic,
5) 950 noncoin traffic,
6) teleconferencing traffic.

The default value for traffic restrictions is 0, meaning no traffic types are restricted. A destination index of 0 indicates the call will be handed off to the OSPS internal to the *5ESS*®-2000 switch. If the destination index is greater than 0 (1 - 4095), then the call should be routed to an external operator system (OS). The overlap outpulsing indicator is used only for calls that are routed to an external OS.

**Attribute: carrid**

**Fullname:** Carrier ID

**Attribute Description** Carrier ID of the carrier handling the call. The value of #LECBCARID is to be mapped to the three letters 'LEC' on the ODA/RC view.

**Attribute: bcarrier**

**Fullname:** Feature Group B Carrier

**Attribute Description** Indicates whether this is a feature group B carrier.

**Attribute: pri_dix**

**Fullname:** Primary destination index

**Attribute Description** Destination index of the operator system (OS) that handles operator calls for this carrier or of the announcement if no operator system is assigned. If the destination index is 0, this means the call will be handed off to an internal OSPS and not routed external to the *5ESS*®-2000 switch. A check must be made so that if the destination is set to 0, there is a OSPS on the switch. Destination index 0, must be reserved for calls being handed off to OSPS by the ISP capability.

**Attribute: traf_rest**

**Fullname:** Traffic Restricted

**Attribute Description** Indicates if any and what type of traffic cannot be handled by the primary OS. This is referred to as restricted traffic. This attribute is a six bit field as described here:

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```
BITS      MEANING
------    ------------------------------------
000000    No restrictions exist. Default value
000001    All coin traffic is restricted
000010    All ACQS auto quote traffic restricted
000100    All ACQS voice quote traffic restricted
001000    Coin 950 0+ XXX traffic restricted
001000    Coin 950 1+ XXX traffic restricted
010000    Noncoin 950 1XXX traffic is restricted
100000    Teleconferencing calls are restricted
```

Any combination of the previous bit settings are valid if multiple traffic types are restricted

**Attribute: pri_ovlp**

**Fullname:** Primary overlap outpulsing

**Attribute Description** Indicates if overlap outpulsing is allowed to the primary OS.

```
Boolean:
DBYES - Overlap outpulsing allowed
DBNO  - Overlap outpulsing not allowed.
```

**Attribute: cn_dix**

**Fullname:** Restricted coin destination index

**Attribute Description** Destination index of OS or announcement for routing restricted coin traffic. Populate only if coin traffic is restricted. See rules for RLfc_diopr.pri_dix for detailed description.

**Attribute: aq_dix**

**Fullname:** Restricted ACQS-AQ destination index

**Attribute Description** Destination index of OS or announcement for routing restricted ACQS-AQ traffic. Populate only if ACQS-AQ traffic is restricted. See pop rules for pri_dix for detailed description.

**Attribute: vq_dix**

**Fullname:** Restricted ACQS-VQ destination index.

**Attribute Description** Destination index of OS or announcement for routing restricted ACQS-VQ traffic. Populate only if ACQS-VQ traffic is restricted. See pop rules for pri_dix for detailed description.

**Attribute: nc950_dix**

**Fullname:** Restricted NCN 950 destination index.

**Attribute Description** Destination index of OS or announcement for routing restricted NCN 950 traffic. Populate only if NCN 950 traffic is restricted. See pop rules for pri_dix for detailed description.

**Attribute: op950_dix**

**Fullname:** Restricted 1+ CN 950 destination index

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**Attribute Description** Destination index of OS or announcement for routing restricted 1+ CN 950 traffic. Populate only if CN 950 traffic is restricted. See poprules for pri_dix for detailed description.

**Attribute: zp950_dix**

**Fullname:** Restricted 0+ CN 950 destination index

**Attribute Description** Destination index of OS or announcement for routing restricted 0+ CN 950 traffic. Populate only if CN 950 traffic is restricted. See poprules for pri_dix for detailed description.

**Attribute: tc_dix**

**Fullname:** Restricted teleconferencing destination index

**Attribute Description** Destination index of OS or announcement for routing restricted teleconferencing traffic. Populate only if teleconferencing traffic is restricted. See rules for pri_dix for detailed description.

**Attribute: cn_ovlp**

**Fullname:** Coin overlap outpulsing

**Attribute Description** Indicates if overlap outpulsing is allowed on calls to the OS handling restricted coin traffic.

```
Boolean:
DBYES - Overlap outpulsing allowed
DBNO  - Overlap outpulsing not allowed.
```

**Attribute: aq_ovlp**

**Fullname:** ACQS-AQ overlap outpulsing

**Attribute Description** Indicates if overlap outpulsing is allowed on calls to the OS handling restricted ACQS-AQ traffic.

```
Boolean:
DBYES - Overlap outpulsing allowed
DBNO  - Overlap outpulsing not allowed.
```

**Attribute: vq_ovlp**

**Fullname:** ACQS-VQ overlap outpulsing

**Attribute Description** Indicates if overlap outpulsing is allowed on call to the OS handling restricted ACQS-AQ traffic.

```
Boolean:
DBYES - Overlap outpulsing allowed
DBNO  - Overlap outpulsing not allowed.
```

**Attribute: nc950_ovlp**

**Fullname:** NCN 950 overlap outpulsing

**Attribute Description** Indicates if overlap outpulsing is allowed on calls to the OS handling restricted 1+ coin 950 traffic.

```
Boolean:
DBYES - Overlap outpulsing allowed
```

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```
DBNO  - Overlap outpulsing not allowed.
```

**Attribute: op950_ovlp**

**Fullname:** 1+ 950 overlap outpulsing

**Attribute Description** Indicates if overlap outpulsing is allowed on calls to the OS handling restricted 1+ 950 traffic.

```
Boolean:
DBYES - Overlap outpulsing allowed
DBNO  - Overlap outpulsing not allowed.
```

**Attribute: zp950_ovlp**

**Fullname:** 0+ 950 overlap outpulsing

**Attribute Description** Indicates if overlap outpulsing is allowed on calls to the OS handling restricted 0+ coin 950 traffic.

```
Boolean:
DBYES - Overlap outpulsing allowed
DBNO  - Overlap outpulsing not allowed.
```

**Attribute: tc_ovlp**

**Fullname:** Teleconferencing overlap outpulsing

**Attribute Description** Indicates if overlap outpulsing is allowed on calls to the OS handling restricted teleconferencing traffic.

```
Boolean:
DBYES - Overlap outpulsing allowed
DBNO  - Overlap outpulsing not allowed.
```

**Defines:** "db/DMcarr_val.h"

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# FC_DIRCON

## 1. Description

Direct connect DNS.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected tuples in relation | 2 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 12 |

## 3. Field Layout

```
FC_DIRCON   relid = 26    DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     port        DMGPORT      (struct)     <--- key
         member      DMGPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     party       DMPARTY      (ushort: 4)     <--- key
     dn          DMDN         (struct)
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
         User, Compacted and Stored Tuple Layout  FC_DIRCON
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============  port ============+===============|
    |                                |                |                |
  0 |              member            |****************|     module     |
    |===============+================+================+================|
    |       |                                                          |
  4 | party |**********************************************************|
    |===============+=============  dn =============+================|
    |       |       |                                                  |
  8 | digcnt|*******|                       dn                         |
    | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                  |
 12 |                                dn                                |
    | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                  |
 16 |                                dn                                |
    | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                  |
 20 |                                dn                                |
    |===============+================+================+================|
       ( 24 bytes )
```

## 4. Population Rules for RLfc_dircon

**Relation Description** Direct connect DNS.

**Attribute: port**

**Fullname:** Port.

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**Attribute Description** This attribute is divided into sub-attribute port. member and port.module. Port.member is the port number and port.module is the IM number.
Port may be a TEN, DEN, LEN, FC_TDIRC, or SLEN. The trunk relation called FC_TDIRC is for direct connect trunks (that is, TENs and DENs).

**Attribute: port.member**

**Fullname:** Port member.
**Attribute Description** Port.member is the port number

**Attribute: port.module**

**Fullname:** Port module.
**Attribute Description** Port.module is the IM number.

**Attribute: party**

**Fullname:** Party.
**Attribute Description** Tells whether this is an individual, 2-party, 4-party 8-party, 5-party (MFR), or 10-party (MFR) line. Direct connect is not allowed with 4 and 8 party or 5 and 10 party lines. It is allowed on 2-party lines.
If this port is a trunk, party is a 'don't care' value, set to FCP_INDI. This is applicable for 5E1(2)3 only.
Multiparty ringing is not supported by Export. Party must be FCP_INDI.

**Attribute: dn**

**Fullname:** Directory Number.
**Attribute Description** Directory number direct connected to.

**Attribute: dn.digcnt**

**Fullname:** Digit count.
**Attribute Description** Total number of digits used for directory number direct connected to.

**Attribute: dn.dn**

**Fullname:** Directory number.
**Attribute Description** Directory number being directly connected. If this port has also been assigned a MFPP feature then in addition to '*', '#', and '0'-'9', the following digits are allowed to be stored in dn.dn: O(0x4f),F(0x46), I(0x49), and P(0x50).
A port has been assigned a PP feature if there exists a tuple in RLpp_line such that: key RLpp_line.port == port.

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# FC_FGBCARR

## 1. Description

Feature Group B (FGB) carrier data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 50 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| foldtype | DBGC31 |

## 3. Field Layout

```
FC_FGBCARR  relid = 1837  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     fgb_carrid  DMCIC4       (array [ 4 ] of char )     <--- key
     fgb_di      DMDESTIDX    (ushort: 12)
 (a) ci_acctp    DMCI_ACCTP      (enum:  4)
      fgb_ri      DMRTEIDX       (ushort: 12)
 (b) dig_route   DMBOOL       (enum: 1)
 (c) osps_icos   DMBOOL       (enum: 1)
 (d) long_rec    DMBOOL       (enum: 1)
 (e) send_ani    DMBOOL       (enum: 1)
 (f) ffcf1       DMBOOL       (enum: 1)
 (g) ffcf2       DMBOOL       (enum: 1)
 (h) ffcf3       DMBOOL       (enum: 1)
     trans_carid  DMCARRID     (array [ 4 ] of char )
         User, Compacted and Stored Tuple Layout FC_FGBCARR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                           fgb_carrid                          |
    |---------------+---------------+---------------+---------------|
    |                       |       |                       | | | | |
  4 |         fgb_di        |   a   |         fgb_ri        |b|c|d|e|
    |---------------+---------------+---------------+---------------|
    | | | |         |                                               |
  8 |f|g|h|*********|                  trans_carid                  |
    | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - |
    |               |                                               |
 12 |  trans_carid  |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLfc_fgbcarr

**Relation Description** Feature Group B (FGB) Carrier data
This relation provides carrier data for FGB carriers only.

This relation is being added by the FGB Carrier Identification Code Expansion Capability - u1038.

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**Attribute: fgb_carrid**

**Fullname:** Feature Group B Carrier Identifier

**Attribute Description** fgb_carrid indicates the Feature Group B carrier identifier. This is a 4 digit character string, where each of the characters can be '0' thru '9'.

Note : If for example, carrier = 0288, only 288 needs to be entered.

**Attribute: fgb_di**

**Fullname:** Feature Group B destination index

**Attribute Description** The destination index for Feature Group B carriers.

**Attribute: fgb_ri**

**Fullname:** Feature Group B route index

**Attribute Description** Route index for Feature Group B carriers.

**Attribute: dig_route**

**Fullname:** Route on dialed digits for Feature Group B

**Attribute Description** Set to DBYES if calls to FGB carrier should be routed based on the dialed digits.

**Attribute: ci_acctp**

**Fullname:** FGB access type

**Attribute Description** Indicates the dialing access allowed by the carrier

**Attribute: trans_carid**

**Fullname:** Transition carrier id

**Attribute Description** If this is FGB with access type of TRANSITION or T_TRANSITION then trans_carid must consist of the last three characters of the fgb_carrid value padded with a leading zero. The default NULL equals '\0'.

**Attribute: osps_icos**

**Fullname:** Operator services indicator

**Attribute Description** An indicator as to whether or not the carrier wants LEC operator services. Indicator is set to DBYES when LEC operator services are wanted.

**Attribute: long_rec**

**Fullname:** Long billing record

**Attribute Description** Set to DBYES indicates a terminating detailed (long) billing record should be generated.

**Attribute: send_ani**

**Fullname:** Send SCRIDX associated ANI II digits flag.

**Attribute Description** DBYES indicates that the carrier is allowed to send the SCRIDX associated ANI II digits. send_ani can only be DBYES if the secured feature, Flexible ANI Enhancements (FANI-E, SFID142) has been purchased and turned on, otherwise must be DBNO.

**Attribute: ffcf1**

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**Fullname:** Future feature.

**Attribute Description** Future feature.

**Attribute: ffcf2**

**Fullname:** Future feature.

**Attribute Description** Future Feature.

**Attribute: ffcf3**

**Fullname:** Future feature.

**Attribute Description** Future Feature.

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# FC_GENRA

## 1. Description

This relation contains the General Recorded Announcement data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 50 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
FC_GENRA    relid = 3007  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL


    ann_id      DMANNC_ID    (ulong: 17)
    rt_type     DMTREAT      (enum: 9) <--- key
 (a) ann_cycl    DMANCYCL     (ushort: 3)
    trl_id      DMANNC_ID    (ulong: 17)
    ann_time    DMSECOND     (ushort: 8)
    ann_var     DMANNVAR     (ushort: 16)      <--- key
        User, Compacted and Stored Tuple Layout   FC_GENRA
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                 |     |     |
 0 |               ann_id            |     rt_type     |  a  |*****|
   |---------------+---------------+---------------+---------------|
   |                                 |               |             |
 4 |               trl_id            |    ann_time   |*************|
   |---------------+---------------+---------------+---------------|
   |                                |                               |
 8 |            ann_var             |*******************************|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population rules for RLfc_genra

### Relation Description

General Recorded Announcements via DSU2-RAF

This relation contains the announcement data for a fixed route type. It should be populated only in those SMs which are equipped with a DSU2-RAF or SAS.

The set of fixed route types which are associated with general recorded announcements and for which a RLfc_genra tuple may be populated are listed in the ATTRIBUTE section for attribute rt_type. In any particular office, only a subset of these fixed route types will be populated in accordance with the previously population rule stated.

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For non stop listening, the calling party hears the announcement repeatedly until he hangs up, the attributes ann_cycl and ann_time have to be set to zero. However this is only valid when the application is FCGENRAF.
For other applications either the ann_cycl or ann_time must be specified but not both (one attribute must be zero).

The fixed route types listed in the ATTRIBUTE Section for attribute rt_type are the same as defined in the rta/RTgdata/RTraft_fat.c feature activation file. If new fixed route types are added to the list, then the same fixed route types must be added to the RTraft_fat.c file. Failure to update RTraft_fat.c will cause an assert to be fired when a call attempts to access the announcement associated with the missing fixed route type.

**Attribute:**
rt_type
**Fullname:**
Fixed Route Type
**Attribute Description:**
A fixed route type which is associated with a general or variable recorded announcement to be provided via a DSU2-RAF or SAS.

**Attribute:**
ann_var
**Fullname:**
Recorded Announcement Variants
**Attribute Description:**
The Recorded Announcement Variant is the second key needed to select an announcement.

**Attribute:**
ann_id
**Fullname:**
Announcement Identification Number
**Attribute Description:**
Announcement identification number to be used for this fixed route type.

**Attribute:**
ann_cycl
**Fullname:**
announcement cycle limit
**Attribute Description:**
This is the number of times an announcement is repeated per call. The full range is 0 thru 5.

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**Attribute:**
ann_time
**Fullname:**
announcement time limit
**Attribute Description:**
This is the maximum period of time (in seconds) that the caller will be allowed to listen to the announcement. This should be long enough for the caller to hear at least one complete cycle. A value of zero DOES NOT mean that the caller will be allowed to listen to the announcement continuously.

**Attribute:**
trl_id
**Fullname:**
Trailer Identification Number
**Attribute Description:**
Trailer ID of the announcement will be played after all cycles of ann_id have finished.

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# FC_HOTEL

## 1. Description

This static relation contains the telephone number as the key, true billing number, voice quote number, manual PBX indicator, voice quote or auto-quote indicator, true hotel establishment indicator, and the character representation of the hotel name.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8192 |
| expected tuples in relation | 2680 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| foldtype | DBGC31 |
| density | 83 |
| trigger function | OAclr_seqn |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBNO |
| end of transaction | DBNO |

## 3. Field Layout

```
FC_HOTEL    relid = 341   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL


    acqsnpanxx  DMBNPANXX    (ulong: 20)       <--- key
    oaff4       DMUNS12      (ushort: 12)
    vqaqnpanxx  DMBNPANXX    (ulong: 20)
    aqhid       DMHOTELID    (ushort: 12)
    oaff1       DMUSHORT     (ushort)
    oaff2       DMUSHORT     (ushort)
    acqslineno  DMLINENO     (ushort: 14)      <--- key
(a) aqform      DMMSGFORM    (enum: 2)
    vqaqlineno  DMLINENO     (ushort: 14)
(b) manpbx      DMBOOL       (enum: 1)
(c) htltrue     DMBOOL       (enum: 1)
    htlnme      DMCHAR3      (array [ 3 ] of char )
    oaff3       DMUNS6       (ushort: 6)
(d) operatoronddd  DMBOOL       (enum: 1)
(e) dacc_alw    DMBOOL       (enum: 1)
    vqaq        DMQUOTE      (enum: 3)
    trubill     DMDN         (struct)  <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
           User Tuple Layout      FC_HOTEL
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                               |               |
 0 |               acqsnpanxx                     |        oaff4  |
   |---------------+---------------+---------------+---------------|
   |                                               |               |
 4 |               vqaqnpanxx                     |        aqhid  |
   |---------------+---------------+---------------+---------------|
```

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```
    acqsnpanxx  DMBNPANXX    (ulong: 20)       <--- key
    oaff4       DMUNS12      (ushort: 12)
    vqaqnpanxx  DMBNPANXX    (ulong: 20)
    aqhid       DMHOTELID    (ushort: 12)
    oaff1       DMUSHORT     (ushort)
    oaff2       DMUSHORT     (ushort)
    acqslineno  DMLINENO     (ushort: 14)      <--- key
(a) aqform      DMMSGFORM    (enum: 2)
    vqaqlineno  DMLINENO     (ushort: 14)
(b) manpbx      DMBOOL       (enum: 1)
(c) htltrue     DMBOOL       (enum: 1)
    htlnme      DMCHAR3      (array [ 3 ] of char )
    oaff3       DMUNS6       (ushort: 6)
(d) operatoronddd  DMBOOL       (enum: 1)
(e) dacc_alw    DMBOOL       (enum: 1)
    vqaq        DMQUOTE      (enum: 3)
    trubill     DMCDN        (struct)  <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
```

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```
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
         Compacted Tuple Layout   FC_HOTEL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                       |                       |
  0 |               acqsnpanxx              |         oaff4         |
    |---------------+---------------+---------------+---------------|
    |                                       |                       |
  4 |               vqaqnpanxx              |         aqhid         |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |             oaff1             |             oaff2             |
    |---------------+---------------+---------------+---------------|
    |                           |   |                           | | |
 12 |         acqslineno        | a |         vqaqlineno        |b|c|
    |---------------+---------------+---------------+---------------|
    |                                               |           | | |
 16 |                     htlnme                    |   oaff3   |d|e|
    |---------------+---------------+---------------+---------------|
    |     |                                                         |
 20 | vqaq|*********************************************************|
    |===============+=========== trubill ===========+===============|
    |       |       |       |       |       |       |       |       |
 24 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
 28 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
    |===============+===============+===============+===============|
    |                                                               |
 32 |***************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 36 |***************************************************************|
    |---------------+---------------+---------------+---------------|
      ( 40 bytes )


    acqsnpanxx  DMBNPANXX    (ulong: 20)       <--- key
    oaff4       DMUNS12      (ushort: 12)
    vqaqnpanxx  DMBNPANXX    (ulong: 20)
    aqhid       DMHOTELID    (ushort: 12)
    oaff1       DMUSHORT     (ushort)
    oaff2       DMUSHORT     (ushort)
    acqslineno  DMLINENO     (ushort: 14)      <--- key
(a) aqform      DMMSGFORM    (enum: 2)
    vqaqlineno  DMLINENO     (ushort: 14)
(b) manpbx      DMBOOL       (enum: 1)
(c) htltrue     DMBOOL       (enum: 1)
```

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```
    htlnme      DMCHAR3      (array [ 3 ] of char )
    oaff3       DMUNS6       (ushort: 6)
(d) operatoronddd  DMBOOL       (enum: 1)
(e) dacc_alw    DMBOOL       (enum: 1)
    vqaq        DMQUOTE      (enum: 3)
    trubill     DMCDN        (struct)  <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
          Stored Tuple Layout     FC_HOTEL
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                       |                       |
 0 |               acqsnpanxx              |         oaff4         |
   |---------------+---------------+---------------+---------------|
   |                                       |                       |
 4 |               vqaqnpanxx              |         aqhid         |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |             oaff1             |             oaff2             |
   |---------------+---------------+---------------+---------------|
   |                           |   |                           | | |
12 |         acqslineno        | a |         vqaqlineno        |b|c|
   |---------------+---------------+---------------+---------------|
   |                                               |           | | |
16 |                    htlnme                     |   oaff3   |d|e|
   |---------------+---------------+---------------+---------------|
   |     |                                                         |
20 | vqaq|*********************************************************|
   |===============+=========== trubill ===========+===============|
   |       |       |       |       |       |       |       |       |
24 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
28 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
   |===============+===============+===============+===============|
      ( 32 bytes )
```

## 4. Population rules for RLfc_hotel

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**Relation Description**

Feature control hotel

This relation contains information which describes a client of the automatic charge quotation service (ACQS). The client, such as a hotel, hospital or lawyers' office, requires the delivery of time and charge information for toll calls made by a party such as a hotel guest, hospital patient or lawyer for their client. The data is transmitted to the client in one of several methods.

The first method, network autoquote, has the 5ESS(R)-2000 switch transmit the time and charge data to a hotel billing information system (HOBIS) or a hotel billing information center (HOBIC). An individual at the HOBIS/HOBIC may then dial up a connection to a printer in the ACQS establishment and print the charge information on the printer.

The second method, private line autoquote, has the 5ESS(R)-2000 switch transmit the data, via a leased line, directly to a printer/computer operated by the client.

The third method, FAX quote, is similar to network autoquote, except instead of sending the information to the clients printer, the information is sent to their FAX machine.

The fourth method, voice quote, has the 5ESS(R)-2000 switch transmit the time and charge date to a HOBIS/HOBIC. An individual at the HOBIS/HOBIC then verbally forwards the data to the client.

This relation is not to be populated for export applications. Populate only in offices intended to serve OSPS.

retrofit-rules,
defaults: vqaq

**Attribute:**

acqsnpanxx

**Fullname:**

Automatic charge quotation system numbering plan area (NPA)-office code (NXX)

**Attribute Description:**

This is the NPA-NXX of the ACQS telephone number. This telephone number is the 10 digit calling number of a line used by an ACQS client.

**Attribute:**

acqslineno

**Fullname:**

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Automatic charge quotation system line number

**Attribute Description:**

This is the last four digits (line number) of the ACQS telephone number. This telephone number is the 10 digit calling number of a line used by an ACQS client.

**Attribute:**

vqaqnpanxx

**Fullname:**

Voice quote/autoquote NPA-NXX

**Attribute Description:**

This is the NPA-NXX of the network autoquote, private line autoquote, FAX quote, or voice quote number.

The network autoquote, FAX quote, and voice quote number is a number called to deliver a non-private line quote to an ACQS client via an alternate means (FAX, voice, or printer).

The private line autoquote number is a number, internal to the 5ESS(R)-2000 switch, used to establish a path between an auto quote digital subscriber line (DSL) link and the trunk port connected to a leased line, which in turn is connected to the printer or computer operated by an ACQS client.

In the event of a private line autoquote failure, this number is not the number used to deliver a non-private line quote.

The number must be the same for every line (ACQS telephone number) of an ACQS client. All ACQS client lines share the same identifiers (the attributes aqhid and htlnme in this relation). The vqaqnpanxx number can be used by one and only one ACQS client.

In the case of an ACQS private line client, the last seven digits (NXX-XXXX) of the number must be unique within the 5ESS(R)-2000 switch and the full 10-digit number must have its NPA and NXX appear in RLnoccode.npa and RLnoccode.nxx, respectively.

The 5ESS(R)-2000 switch has a system limit of 1000 trunk ports which can be used to connect to a leased line used by an ACQS auto quote client. The 10-digit number and the trunk port are a unique combination within the 5ESS(R)-2000 switch. Ergo, there is a limit of 1000 (as defined by Glaq_max) 10-digit numbers that can be used for ACQS private line autoquote clients.

**Attribute:**

vqaqlineno

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**Fullname:**
Voice quote/autoquote line number
**Attribute Description:**
This is the last four digits (line number) of the delivered to number.

**Attribute:**
trubill
**Fullname:**
True billing number
**Attribute Description:**
The 7-digit or 10-digit number that is to be used for billing purposes when the acqstelno is not to be used. This number will appear on the automatic message accounting (AMA) record.

The NPA associated with this number must be the same as the NPA of the number in the acqstelno attribute.

Whenever a true billing number is user-specified, another tuple must exist in this relation whose key (acqstelno) is equal to the true billing number ( a 7-digit number must be prefixed by the NPA of the acqstelno associated with the true billing number). This tuple must have its trubill.digcnt attribute set to '0'. Additionally, this tuple must have every attribute, except trubill and manpbx, in common with the tuple built for the original acqstelno.

Every line (acqstelno) serving an ACQS client should have the same true billing number.

Two or more ACQS clients should not share a true billing number. Even though ODA and RC do not enforce this rule it is highly suggested.

**Attribute:**
aqhid
**Fullname:**
Auto quote hotel ID
**Attribute Description:**
This attribute is unique for each ACQS client. An ACQS client is uniquely identified by the htlnme attribute in this relation. Thus, there will be a one-to-one correspondence between the htlnme and aqhid attributes.

The aqhid attribute is assigned by ODA or RC/V, as opposed to being user specified. The range is from 0 to 4095 (as defined by Glrc_hotel) and is assigned by using the relations RLfc_hotel and RLrc_hotel and the global GLrc_hotel.

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ODA will, for an initial or retrofit office, calculate the quantity of ACQS clients and set GLrc_hotel to the value that should be assigned to the first new ACQS client to be added through RC/V. ODA does not use or build RLrc_hotel.

When RC/V adds a new ACQS client, RLrc_hotel is examined for an available aqhid. An aqhid becomes 'available' when an ACQS client is deleted. RLrc_hotel is a bit-mapped representation of assigned and available aqhids. If RC/V does not find an available aqhid in RLrc_hotel, then the value in GLrc_hotel is used.

**Attribute:**
aqform
**Fullname:**
Auto quote message form
**Attribute Description:**
This attribute specifies the format of the printout of time and charge information for an ACQS private line auto quote client. The attribute is meaningless for an ACQS non-private line auto quote client. If the vqaq attribute is set to network auto quote, FAX, or voice quote, then this attribute must be set to OA_OSPFM.

**Attribute:**
manpbx
**Fullname:**
Manual private branch exchange (PBX)
**Attribute Description:**
This attribute should be set to DBYES when either of the following situations apply to the ACQS client line (acqstelno): a) the call is from a manual PBX; or b) the line is used by the ACQS client for administrative calls in some instances and for 'guest' calls, prefixed by 0, in other instances. An administrative call does not require a time and charge quotation, whereas a 'guest' call, such as a call from a hospital patient's room, does require a time and charge quotation.

**Attribute:**
vqaq
**Fullname:**
Voice quote or auto quote indicator
**Attribute Description:**
Used to indicate the type of quote delivery method used; network auto quote, private line auto quote, FAX quote, or voice quote.

**Attribute:**
htltrue

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**Fullname:**
Hotel true
**Attribute Description:**
When this attribute is set to DBYES, the line serves a 'true' hotel. When this attribute is set to DBNO, the line does not serve a 'true' hotel. A 'true' hotel is an ACQS client which rents lodging, as opposed to a hospital, lawyers' office, etc. The 5ESS(R)-2000 switch owner can use this attribute to tariff service to hotels and motels differently than other businesses.

**Attribute:**
htlnme
**Fullname:**
Hotel name
**Attribute Description:**
A unique identifier, comprised of three characters (upper case letters or digits) to be user specified for an ACQS client. Every line (acqstelno) serving an ACQS client would have the same htlnme attribute. Two or more ACQS clients may not share a htlnme.

Tuples which have a common htlnme must share the following attributes: vqaqnpanxx, vqaqlineno, aqhid, aqform, vqaq and htltrue.

**Attribute:**
dacc_alw
**Fullname:**
DA Call Completion Allowed
**Attribute Description:**
Indicates whether the ACQS number is eligible for CICADA call completion.

**Attribute:**
oaff1
**Fullname:**
OSPS fast feature
**Attribute Description:**
OSPS fast feature item - The item is to be used for future OSPS fast feature development.

For 5E8, used in conjunction with vqaq to form a 2 bit attribute.

**Attribute:**
oaff2
**Fullname:**
OSPS fast feature
**Attribute Description:**
OSPS fast feature item - The item is to be used for future OSPS fast feature development.

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**Attribute:**
oaff3
**Fullname:**
OSPS special feature
**Attribute Description:**
OSPS fast feature item - The item is to be used for future OSPS fast feature development.

**Attribute:**
oaff4
**Fullname:**
OSPS fast feature
**Attribute Description:**
OSPS fast feature item - The item is to be used for future OSPS fast feature development.

**Attribute:**
operatoronddd
**Fullname:**
Operator On DDD (Direct Distance Dialing)
**Attribute Description:**
This attribute specifies whether an ACQS line has been marked as a "1+ Time & Charges" (1+ T&C) line.

**Defines:**
"db/DMnxx.h",
"db/DMnpanxx.h"

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# FC_LINE

## 1. Description

This relation contains the Individual line feature data. This is a virtual update relation

The tree diagram Figure 1 depicts the stored structure of virtual relation FC_LINE.

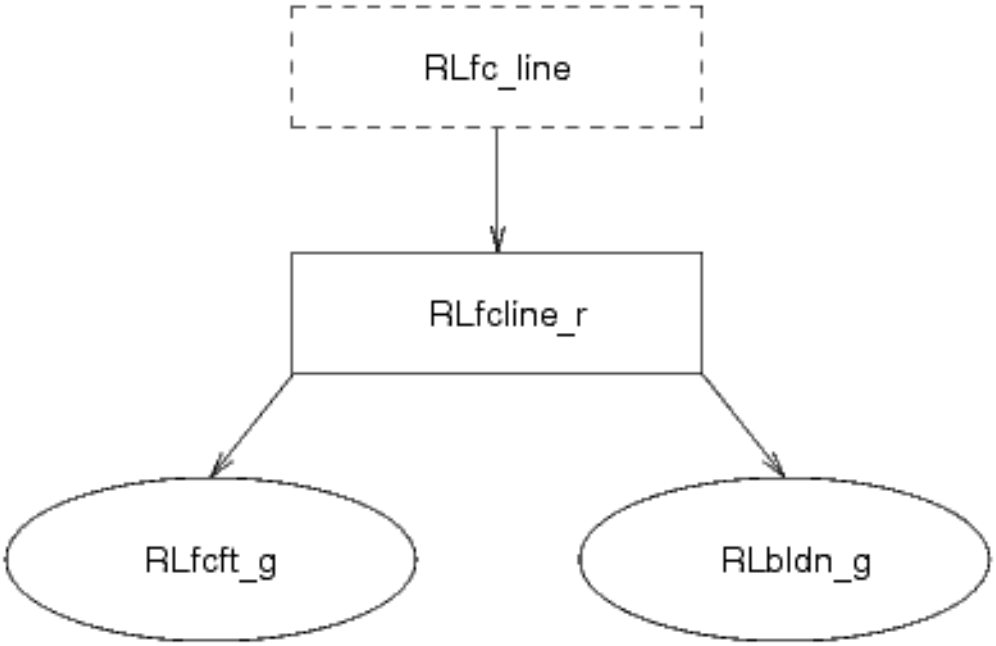


**Figure 1 Virtual Relation FC_LINE**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| corcable relation | DBYES |
| trigger function | RTtrfcline |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | perm |

## 3. Field Layout

```
FC_LINE     relid = 28    DBSTATIC   DBACC_OPV   DBNOTODD  LPFPFG  RCMAP


     lport       DMLPORT      (ushort: 16)
     ltm_idx     DMLTM_IDX    (ulong: 16)
     insep       DMINSEP      (ushort: 8)
     desep       DMDESEP      (ushort: 8)
     ffcf20      DMUNS8       (ushort: 8)
     digtree     DMDA_TREE    (ushort: 7)
 (a) brc_dn      DMBOOL       (enum: 1)
```

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```
    signal       DMDIGSIG     (enum: 5)
(b) privacy      DMPRIVACY    (enum: 2)
(c) ltm_type     DMLTM_TYPE   (enum: 1)
(d) trace        DMTRC_TYPE   (enum: 2)
(e) otrace       DMTRC_TYPE   (enum: 2)
(f) epls_pri     DMEPLS_PRI   (enum: 2)
(g) ln_type      DMLNTYPE     (enum: 2)
(h) ctxid        DMCTXID      (enum: 2)
(i) mca          DMBOOL       (enum: 1)
(j) mdc_member   DMBOOL       (enum: 1)
(k) threeway     DMBOOL       (enum: 1)
(l) flash        DMBOOL       (enum: 1)
(m) multidn      DMBOOL       (enum: 1)
(n) ani7         DMBOOL       (enum: 1)
(o) pingring     DMBOOL       (enum: 1)
(p) busy         DMBOOL       (enum: 1)
(q) busymon      DMBOOL       (enum: 1)
(r) sercomp      DMBOOL       (enum: 1)
(s) freeterm     DMBOOL       (enum: 1)
(t) roh          DMBOOL       (enum: 1)
(u) orig         DMBOOL       (enum: 1)
(v) fga          DMBOOL       (enum: 1)
(w) optdtail     DMBOOL       (enum: 1)
(x) traffic      DMBOOL       (enum: 1)
(y) denybv       DMBOOL       (enum: 1)
(z) ffcf22       DMBOOL       (enum: 1)
(A) cidcw        DMBOOL       (enum: 1)
(B) ac_standing  DMBOOL       (enum: 1)
(C) ac_onetime   DMBOOL       (enum: 1)
(D) mach_typ     DMBOOL       (enum: 1)
(E) ccv_ind      DMBOOL       (enum: 1)
(F) secm_ind     DMBOOL       (enum: 1)
(G) datat        DMBOOL       (enum: 1)
(H) dn_bfg       DMBOOL       (enum: 1)
(I) trmbfg       DMBOOL       (enum: 1)
(J) cfv_on       DMBOOL       (enum: 1)
(K) cfbl_on      DMBOOL       (enum: 1)
(L) cfda_on      DMBOOL       (enum: 1)
(M) disp_on      DMBOOL       (enum: 1)
(N) cwo_on       DMBOOL       (enum: 1)
(O) cwt_on       DMBOOL       (enum: 1)
(P) cnd_on       DMBOOL       (enum: 1)
(Q) cpnbn_on     DMBOOL       (enum: 1)
(R) asi_im_on    DMBOOL       (enum: 1)
(S) bfg_asi      DMBOOL       (enum: 1)
(T) bfg_ars      DMBOOL       (enum: 1)
(U) bfg_puo      DMBOOL       (enum: 1)
(V) bfg_put      DMBOOL       (enum: 1)
(W) bfg_eds      DMBOOL       (enum: 1)
(X) bfg_idp      DMBOOL       (enum: 1)
(Y) mfri         DMBOOL       (enum: 1)
(Z) ar_alw       DMBOOL       (enum: 1)
(a) ac_alw       DMBOOL       (enum: 1)
(b) cot_alw      DMBOOL       (enum: 1)
```

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```
    pic2          DMBCARID     (ushort: 14)
(c) nodial        DMNODIAL     (enum: 2)
    plc           DMBCARID     (ushort: 14)
(d) one_block     DMONE_BLOCK  (enum: 2)
    pic4          DMBCARID     (ushort: 14)
(e) lpt_type      DMLPT_TYPE   (enum: 2)
    screen_x      DMSCRNIDX    (ushort: 12)
(f) ppm_ind       DMPPM_IND    (enum: 3)
(g) line_screen   DMBOOL        (enum: 1)
    bfgid         DMRCBFGID    (ushort: 12)
(h) ci_dial       DMCI_DIAL    (enum: 3)
(i) brc_trm       DMBOOL       (enum: 1)
    lata          DMILATA      (ushort: 10)
    ffcf21        DMUNS6       (ushort: 6)
(j) ffcf19        DMBOOL       (enum: 1)
(k) pcp_alw       DMBOOL       (enum: 1)
(l) intercept     DMBOOL       (enum: 1)
(m) bfg_sc1       DMBOOL       (enum: 1)
(n) bfg_sc2       DMBOOL       (enum: 1)
(o) lsf_sub       DMBOOL       (enum: 1)
(p) tgsr_on       DMBOOL       (enum: 1)
(q) scr_on        DMBOOL       (enum: 1)
(r) scf_on        DMBOOL       (enum: 1)
(s) sca_on        DMBOOL       (enum: 1)
(t) sda_on        DMBOOL       (enum: 1)
(u) scr_gen_alw   DMBOOL        (enum: 1)
(v) scf_gen_alw   DMBOOL        (enum: 1)
(w) sca_gen_alw   DMBOOL        (enum: 1)
(x) sda_gen_alw   DMBOOL        (enum: 1)
(y) ls_alt_lang   DMBOOL        (enum: 1)
(z) erco_asgn     DMBOOL       (enum: 1)
(A) erco_act      DMBOOL       (enum: 1)
(B) britl_alw     DMBOOL       (enum: 1)
(C) ffcf4         DMBOOL       (enum: 1)
(D) ffcf5         DMBOOL       (enum: 1)
(E) ffcf6         DMBOOL       (enum: 1)
(F) mcld_ov       DMBOOL       (enum: 1)
(G) scd_scrn      DMBOOL       (enum: 1)
(H) ffcf10        DMBOOL       (enum: 1)
(I) clss          DMBOOL       (enum: 1)
(J) ucr           DMBOOL       (enum: 1)
(K) ucr_on        DMBOOL       (enum: 1)
(L) dr_ldc        DMBOOL       (enum: 1)
(M) ustwc_alw     DMBOOL       (enum: 1)
(N) ustwc_subscr   DMBOOL        (enum: 1)
(O) ported        DMBOOL       (enum: 1)
(P) o_bltrig_inh   DMBOOL        (enum: 1)
(Q) o_natrig_inh   DMBOOL        (enum: 1)
(R) tsmed         DMBOOL       (enum: 1)
(S) unbundled     DMBOOL       (enum: 1)
(T) ovr_dny_xfer   DMBOOL        (enum: 1)
(U) inhibit_del   DMBOOL        (enum: 1)
(V) cs_on         DMBOOL       (enum: 1)
(W) ffcf11        DMBOOL       (enum: 1)
```

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```
(X) ffcf12      DMBOOL       (enum: 1)
(Y) ffcf13      DMBOOL       (enum: 1)
(Z) ffcf14      DMBOOL       (enum: 1)
(a) ffcf15      DMBOOL       (enum: 1)
(b) ffcf16      DMBOOL       (enum: 1)
(c) ffcf17      DMBOOL       (enum: 1)
(d) ffcf18      DMBOOL       (enum: 1)
    caseindex   DMCASEMAX    (ushort: 9)
(e) complaint   DMBOOL       (enum: 1)
(f) slus        DMBOOL       (enum: 1)
(g) tmalit_ihb  DMBOOL       (enum: 1)
(h) tmslim_ihb  DMBOOL       (enum: 1)
    party       DMPARTY      (ushort: 4)       <--- key
    carrid      DMCARRID     (array [ 4 ] of char )
    port        DMGPORT      (struct)  <--- key, compacted
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    bill_dn     DMDN         (struct)  <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
    locdn       DMLOCDN      (struct)  <--- compacted
        noc         DMNOC        (ushort: 14)
        digits      DMLOCDIG     (array [ 4 ] of char )
           User Tuple Layout   FC_LINE
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |              lport            |             ltm_idx           |
   |---------------+---------------+---------------+---------------|
   |               |               |               |             | |
 4 |     insep     |     desep     |     ffcf20    |   digtree   |a|
   |---------------+---------------+---------------+---------------|
   |         |   | |   |   |   |   |   | | | | | | | | | | | | | | |
 8 |  signal | b |c| d | e | f | g | h |i|j|k|l|m|n|o|p|q|r|s|t|u|v|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
12 |w|x|y|z|A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z|a|b|
   |---------------+---------------+---------------+---------------|
   |                           |   |                           |   |
16 |           pic2            | c |           plc             | d |
   |---------------+---------------+---------------+---------------|
   |                           |   |                       |     | |
20 |           pic4            | e |        screen_x       |  f  |g|
   |---------------+---------------+---------------+---------------|
   |                       |     | |                   |           |
24 |         bfgid         |  h  |i|        lata       |   ffcf21  |
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
28 |j|k|l|m|n|o|p|q|r|s|t|u|v|w|x|y|z|A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | | |                 |     | | | | |
32 |P|Q|R|S|T|U|V|W|X|Y|Z|a|b|c|d|*|    caseindex    |*****|e|f|g|h|
   |---------------+---------------+---------------+---------------|
```

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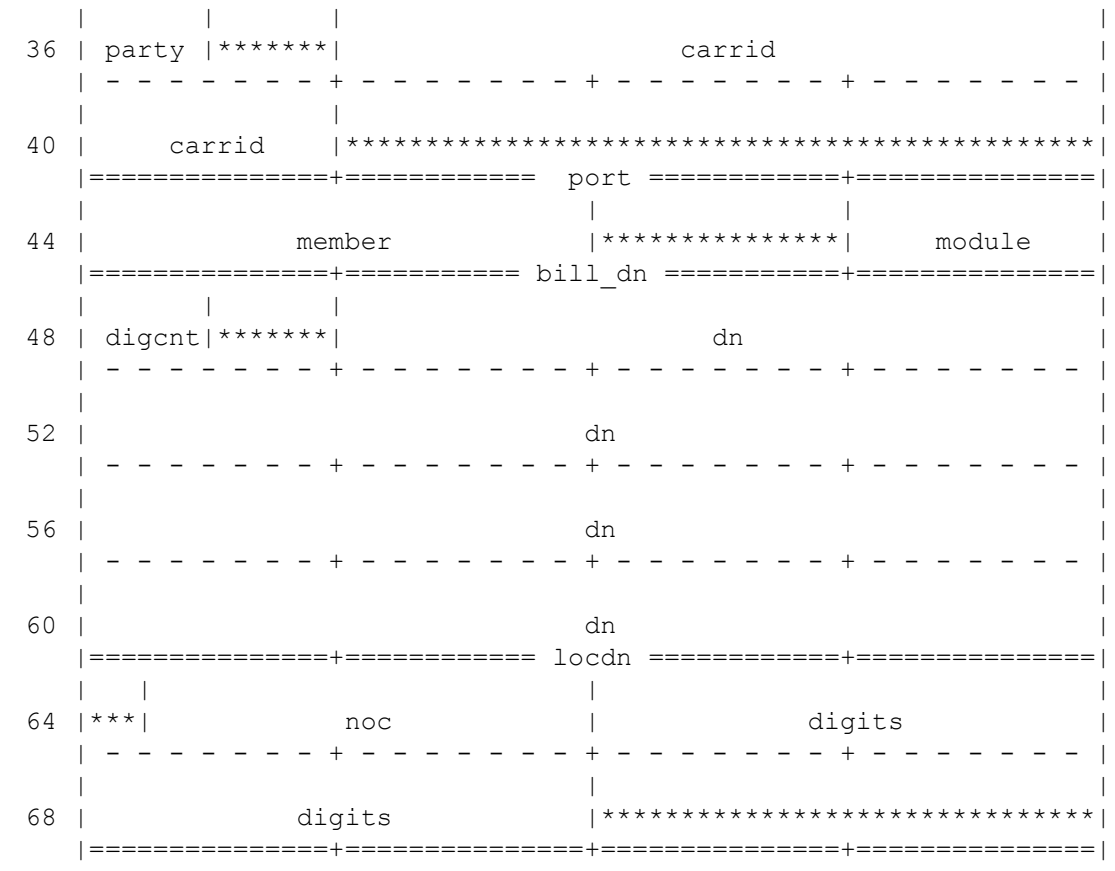


| | | | |
|---|---|---|---|
| | lport | DMLPORT | (ushort: 16) |
| | ltm_idx | DMLTM_IDX | (ulong: 16) |
| | insep | DMINSEP | (ushort: 8) |
| | desep | DMDESEP | (ushort: 8) |
| | ffcf20 | DMUNS8 | (ushort: 8) |
| | digtree | DMDA_TREE | (ushort: 7) |
| (a) | brc_dn | DMBOOL | (enum: 1) |
| | signal | DMDIGSIG | (enum: 5) |
| (b) | privacy | DMPRIVACY | (enum: 2) |
| (c) | ltm_type | DMLTM_TYPE | (enum: 1) |
| (d) | trace | DMTRC_TYPE | (enum: 2) |
| (e) | otrace | DMTRC_TYPE | (enum: 2) |
| (f) | epls_pri | DMEPLS_PRI | (enum: 2) |
| (g) | ln_type | DMLNTYPE | (enum: 2) |
| (h) | ctxid | DMCTXID | (enum: 2) |
| (i) | mca | DMBOOL | (enum: 1) |
| (j) | mdc_member | DMBOOL | (enum: 1) |
| (k) | threeway | DMBOOL | (enum: 1) |
| (l) | flash | DMBOOL | (enum: 1) |
| (m) | multidn | DMBOOL | (enum: 1) |
| (n) | ani7 | DMBOOL | (enum: 1) |
| (o) | pingring | DMBOOL | (enum: 1) |
| (p) | busy | DMBOOL | (enum: 1) |
| (q) | busymon | DMBOOL | (enum: 1) |

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```
(r) sercomp      DMBOOL       (enum: 1)
(s) freeterm     DMBOOL       (enum: 1)
(t) roh          DMBOOL       (enum: 1)
(u) orig         DMBOOL       (enum: 1)
(v) fga          DMBOOL       (enum: 1)
(w) optdtail     DMBOOL       (enum: 1)
(x) traffic      DMBOOL       (enum: 1)
(y) denybv       DMBOOL       (enum: 1)
(z) ffcf22       DMBOOL       (enum: 1)
(A) cidcw        DMBOOL       (enum: 1)
(B) ac_standing  DMBOOL       (enum: 1)
(C) ac_onetime   DMBOOL       (enum: 1)
(D) mach_typ     DMBOOL       (enum: 1)
(E) ccv_ind      DMBOOL       (enum: 1)
(F) secm_ind     DMBOOL       (enum: 1)
(G) datat        DMBOOL       (enum: 1)
(H) dn_bfg       DMBOOL       (enum: 1)
(I) trmbfg       DMBOOL       (enum: 1)
(J) cfv_on       DMBOOL       (enum: 1)
(K) cfbl_on      DMBOOL       (enum: 1)
(L) cfda_on      DMBOOL       (enum: 1)
(M) disp_on      DMBOOL       (enum: 1)
(N) cwo_on       DMBOOL       (enum: 1)
(O) cwt_on       DMBOOL       (enum: 1)
(P) cnd_on       DMBOOL       (enum: 1)
(Q) cpnbn_on     DMBOOL       (enum: 1)
(R) asi_im_on    DMBOOL       (enum: 1)
(S) bfg_asi      DMBOOL       (enum: 1)
(T) bfg_ars      DMBOOL       (enum: 1)
(U) bfg_puo      DMBOOL       (enum: 1)
(V) bfg_put      DMBOOL       (enum: 1)
(W) bfg_eds      DMBOOL       (enum: 1)
(X) bfg_idp      DMBOOL       (enum: 1)
(Y) mfri         DMBOOL       (enum: 1)
(Z) ar_alw       DMBOOL       (enum: 1)
(a) ac_alw       DMBOOL       (enum: 1)
(b) cot_alw      DMBOOL       (enum: 1)
    pic2         DMBCARID     (ushort: 14)
(c) nodial       DMNODIAL     (enum: 2)
    plc          DMBCARID     (ushort: 14)
(d) one_block    DMONE_BLOCK  (enum: 2)
    pic4         DMBCARID     (ushort: 14)
(e) lpt_type     DMLPT_TYPE   (enum: 2)
    screen_x     DMSCRNIDX    (ushort: 12)
(f) ppm_ind      DMPPM_IND    (enum: 3)
(g) line_screen  DMBOOL       (enum: 1)
    bfgid        DMRCBFGID    (ushort: 12)
(h) ci_dial      DMCI_DIAL    (enum: 3)
(i) brc_trm      DMBOOL       (enum: 1)
    lata         DMILATA      (ushort: 10)
    ffcf21       DMUNS6       (ushort: 6)
(j) ffcf19       DMBOOL       (enum: 1)
(k) pcp_alw      DMBOOL       (enum: 1)
(l) intercept    DMBOOL       (enum: 1)
```

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```
(m) bfg_sc1      DMBOOL       (enum: 1)
(n) bfg_sc2      DMBOOL       (enum: 1)
(o) lsf_sub      DMBOOL       (enum: 1)
(p) tgsr_on      DMBOOL       (enum: 1)
(q) scr_on       DMBOOL       (enum: 1)
(r) scf_on       DMBOOL       (enum: 1)
(s) sca_on       DMBOOL       (enum: 1)
(t) sda_on       DMBOOL       (enum: 1)
(u) scr_gen_alw  DMBOOL        (enum: 1)
(v) scf_gen_alw  DMBOOL        (enum: 1)
(w) sca_gen_alw  DMBOOL        (enum: 1)
(x) sda_gen_alw  DMBOOL        (enum: 1)
(y) ls_alt_lang  DMBOOL        (enum: 1)
(z) erco_asgn    DMBOOL       (enum: 1)
(A) erco_act     DMBOOL       (enum: 1)
(B) britl_alw    DMBOOL       (enum: 1)
(C) ffcf4        DMBOOL       (enum: 1)
(D) ffcf5        DMBOOL       (enum: 1)
(E) ffcf6        DMBOOL       (enum: 1)
(F) mcld_ov      DMBOOL       (enum: 1)
(G) scd_scrn     DMBOOL       (enum: 1)
(H) ffcf10       DMBOOL       (enum: 1)
(I) clss         DMBOOL       (enum: 1)
(J) ucr          DMBOOL       (enum: 1)
(K) ucr_on       DMBOOL       (enum: 1)
(L) dr_ldc       DMBOOL       (enum: 1)
(M) ustwc_alw    DMBOOL       (enum: 1)
(N) ustwc_subscr  DMBOOL        (enum: 1)
(O) ported       DMBOOL       (enum: 1)
(P) o_bltrig_inh  DMBOOL        (enum: 1)
(Q) o_natrig_inh  DMBOOL        (enum: 1)
(R) tsmed        DMBOOL       (enum: 1)
(S) unbundled    DMBOOL       (enum: 1)
(T) ovr_dny_xfer  DMBOOL        (enum: 1)
(U) inhibit_del  DMBOOL        (enum: 1)
(V) cs_on        DMBOOL       (enum: 1)
(W) ffcf11       DMBOOL       (enum: 1)
(X) ffcf12       DMBOOL       (enum: 1)
(Y) ffcf13       DMBOOL       (enum: 1)
(Z) ffcf14       DMBOOL       (enum: 1)
(a) ffcf15       DMBOOL       (enum: 1)
(b) ffcf16       DMBOOL       (enum: 1)
(c) ffcf17       DMBOOL       (enum: 1)
(d) ffcf18       DMBOOL       (enum: 1)
    caseindex    DMCASEMAX    (ushort: 9)
(e) complaint    DMBOOL       (enum: 1)
(f) slus         DMBOOL       (enum: 1)
(g) tmalit_ihb   DMBOOL       (enum: 1)
(h) tmslim_ihb   DMBOOL       (enum: 1)
    party        DMPARTY      (ushort: 4)       <--- key
    carrid       DMCARRID     (array [ 4 ] of char )
    port         DMKPORT      (struct)  <--- key, compacted
        member       DMPORT       (ushort)
(i)     module       DMBOOL       (enum: 1)
```

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```
    bill_dn     DMCBLDN      (struct)  <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        npanxx      DMCHAR6      (array [ 6 ] of char )
        digits      DMCHAR4      (array [ 4 ] of char )
        nulstr      DMCHAR5      (array [ 5 ] of char )
    locdn       DMCLOCDN     (struct)  <--- compacted
        noc         DMNOC        (ushort: 14)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
         Compacted Tuple Layout    FC_LINE
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             lport             |            ltm_idx            |
   |---------------+---------------+---------------+---------------|
   |               |               |               |            | |
 4 |     insep     |     desep     |     ffcf20    |   digtree   |a|
   |---------------+---------------+---------------+---------------|
   |         |   | |   |   |   |   | | | | | | | | | | | | | | | |
 8 |  signal | b |c| d | e | f | g | h |i|j|k|l|m|n|o|p|q|r|s|t|u|v|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
12 |w|x|y|z|A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z|a|b|
   |---------------+---------------+---------------+---------------|
   |                           |   |                           |   |
16 |            pic2          | c |            plc            | d |
   |---------------+---------------+---------------+---------------|
   |                           |   |                       |     | |
20 |            pic4          | e |        screen_x       |  f  |g|
   |---------------+---------------+---------------+---------------|
   |                       |     | |                   |           |
24 |         bfgid         |  h  |i|        lata       |   ffcf21  |
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
28 |j|k|l|m|n|o|p|q|r|s|t|u|v|w|x|y|z|A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | | | |                 |     | | | | |
32 |P|Q|R|S|T|U|V|W|X|Y|Z|a|b|c|d|*|    caseindex    |*****|e|f|g|h|
   |---------------+---------------+---------------+---------------|
   |       |       |                                               |
36 | party |*******|                    carrid                     |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |               |                                               |
40 |     carrid    |***********************************************|
   |===============+============  port ============+===============|
   |                               | |                           |
44 |             member            |i|***************************|
   |===============+=========== bill_dn ===========+===============|
   |       |       |                                               |
48 | digcnt|*******|                    npanxx                     |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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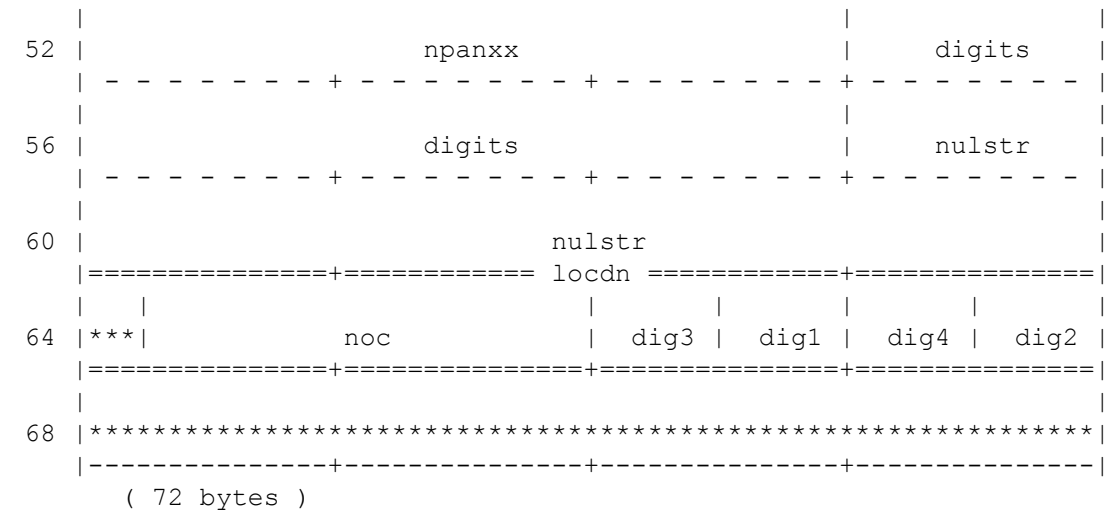


( 72 bytes )

```
    lport       DMLPORT      (ushort: 16)
    ltm_idx     DMLTM_IDX    (ulong: 16)
    insep       DMINSEP      (ushort: 8)
    desep       DMDESEP      (ushort: 8)
    ffcf20      DMUNS8       (ushort: 8)
    digtree     DMDA_TREE    (ushort: 7)
(a) brc_dn      DMBOOL       (enum: 1)
    signal      DMDIGSIG     (enum: 5)
(b) privacy     DMPRIVACY    (enum: 2)
(c) ltm_type    DMLTM_TYPE   (enum: 1)
(d) trace       DMTRC_TYPE   (enum: 2)
(e) otrace      DMTRC_TYPE   (enum: 2)
(f) epls_pri    DMEPLS_PRI   (enum: 2)
(g) ln_type     DMLNTYPE     (enum: 2)
(h) ctxid       DMCTXID      (enum: 2)
(i) mca         DMBOOL       (enum: 1)
(j) mdc_member  DMBOOL       (enum: 1)
(k) threeway    DMBOOL       (enum: 1)
(l) flash       DMBOOL       (enum: 1)
(m) multidn     DMBOOL       (enum: 1)
(n) ani7        DMBOOL       (enum: 1)
(o) pingring    DMBOOL       (enum: 1)
(p) busy        DMBOOL       (enum: 1)
(q) busymon     DMBOOL       (enum: 1)
(r) sercomp     DMBOOL       (enum: 1)
(s) freeterm    DMBOOL       (enum: 1)
(t) roh         DMBOOL       (enum: 1)
(u) orig        DMBOOL       (enum: 1)
(v) fga         DMBOOL       (enum: 1)
(w) optdtail    DMBOOL       (enum: 1)
(x) traffic     DMBOOL       (enum: 1)
(y) denybv      DMBOOL       (enum: 1)
(z) ffcf22      DMBOOL       (enum: 1)
(A) cidcw       DMBOOL       (enum: 1)
(B) ac_standing  DMBOOL       (enum: 1)
(C) ac_onetime  DMBOOL       (enum: 1)
```

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```
(D) mach_typ     DMBOOL       (enum: 1)
(E) ccv_ind      DMBOOL       (enum: 1)
(F) secm_ind     DMBOOL       (enum: 1)
(G) datat        DMBOOL       (enum: 1)
(H) dn_bfg       DMBOOL       (enum: 1)
(I) trmbfg       DMBOOL       (enum: 1)
(J) cfv_on       DMBOOL       (enum: 1)
(K) cfbl_on      DMBOOL       (enum: 1)
(L) cfda_on      DMBOOL       (enum: 1)
(M) disp_on      DMBOOL       (enum: 1)
(N) cwo_on       DMBOOL       (enum: 1)
(O) cwt_on       DMBOOL       (enum: 1)
(P) cnd_on       DMBOOL       (enum: 1)
(Q) cpnbn_on     DMBOOL       (enum: 1)
(R) asi_im_on    DMBOOL       (enum: 1)
(S) bfg_asi      DMBOOL       (enum: 1)
(T) bfg_ars      DMBOOL       (enum: 1)
(U) bfg_puo      DMBOOL       (enum: 1)
(V) bfg_put      DMBOOL       (enum: 1)
(W) bfg_eds      DMBOOL       (enum: 1)
(X) bfg_idp      DMBOOL       (enum: 1)
(Y) mfri         DMBOOL       (enum: 1)
(Z) ar_alw       DMBOOL       (enum: 1)
(a) ac_alw       DMBOOL       (enum: 1)
(b) cot_alw      DMBOOL       (enum: 1)
    pic2         DMBCARID     (ushort: 14)
(c) nodial       DMNODIAL     (enum: 2)
    plc          DMBCARID     (ushort: 14)
(d) one_block    DMONE_BLOCK  (enum: 2)
    pic4         DMBCARID     (ushort: 14)
(e) lpt_type     DMLPT_TYPE   (enum: 2)
    screen_x     DMSCRNIDX    (ushort: 12)
(f) ppm_ind      DMPPM_IND    (enum: 3)
(g) line_screen  DMBOOL       (enum: 1)
    bfgid        DMRCBFGID    (ushort: 12)
(h) ci_dial      DMCI_DIAL    (enum: 3)
(i) brc_trm      DMBOOL       (enum: 1)
    lata         DMILATA      (ushort: 10)
    ffcf21       DMUNS6       (ushort: 6)
(j) ffcf19       DMBOOL       (enum: 1)
(k) pcp_alw      DMBOOL       (enum: 1)
(l) intercept    DMBOOL       (enum: 1)
(m) bfg_sc1      DMBOOL       (enum: 1)
(n) bfg_sc2      DMBOOL       (enum: 1)
(o) lsf_sub      DMBOOL       (enum: 1)
(p) tgsr_on      DMBOOL       (enum: 1)
(q) scr_on       DMBOOL       (enum: 1)
(r) scf_on       DMBOOL       (enum: 1)
(s) sca_on       DMBOOL       (enum: 1)
(t) sda_on       DMBOOL       (enum: 1)
(u) scr_gen_alw  DMBOOL       (enum: 1)
(v) scf_gen_alw  DMBOOL       (enum: 1)
(w) sca_gen_alw  DMBOOL       (enum: 1)
(x) sda_gen_alw  DMBOOL       (enum: 1)
```

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```
(y) ls_alt_lang  DMBOOL       (enum: 1)
(z) erco_asgn    DMBOOL       (enum: 1)
(A) erco_act     DMBOOL       (enum: 1)
(B) britl_alw    DMBOOL       (enum: 1)
(C) ffcf4        DMBOOL       (enum: 1)
(D) ffcf5        DMBOOL       (enum: 1)
(E) ffcf6        DMBOOL       (enum: 1)
(F) mcld_ov      DMBOOL       (enum: 1)
(G) scd_scrn     DMBOOL       (enum: 1)
(H) ffcf10       DMBOOL       (enum: 1)
(I) clss         DMBOOL       (enum: 1)
(J) ucr          DMBOOL       (enum: 1)
(K) ucr_on       DMBOOL       (enum: 1)
(L) dr_ldc       DMBOOL       (enum: 1)
(M) ustwc_alw    DMBOOL       (enum: 1)
(N) ustwc_subscr  DMBOOL       (enum: 1)
(O) ported       DMBOOL       (enum: 1)
(P) o_bltrig_inh  DMBOOL       (enum: 1)
(Q) o_natrig_inh  DMBOOL       (enum: 1)
(R) tsmed        DMBOOL       (enum: 1)
(S) unbundled    DMBOOL       (enum: 1)
(T) ovr_dny_xfer  DMBOOL       (enum: 1)
(U) inhibit_del  DMBOOL       (enum: 1)
(V) cs_on        DMBOOL       (enum: 1)
(W) ffcf11       DMBOOL       (enum: 1)
(X) ffcf12       DMBOOL       (enum: 1)
(Y) ffcf13       DMBOOL       (enum: 1)
(Z) ffcf14       DMBOOL       (enum: 1)
(a) ffcf15       DMBOOL       (enum: 1)
(b) ffcf16       DMBOOL       (enum: 1)
(c) ffcf17       DMBOOL       (enum: 1)
(d) ffcf18       DMBOOL       (enum: 1)
    caseindex    DMCASEMAX    (ushort: 9)
(e) complaint    DMBOOL       (enum: 1)
(f) slus         DMBOOL       (enum: 1)
(g) tmalit_ihb   DMBOOL       (enum: 1)
(h) tmslim_ihb   DMBOOL       (enum: 1)
    party        DMPARTY      (ushort: 4)       <--- key
    carrid       DMCARRID     (array [ 4 ] of char )
    port         DMKPORT      (struct)  <--- key, compacted
        member       DMPORT       (ushort)
(i)     module       DMBOOL       (enum: 1)
    bill_dn      DMCBLDN      (struct)  <--- compacted
        digcnt       DMDIGCNT     (uchar: 4)
        npanxx       DMCHAR6      (array [ 6 ] of char )
        digits       DMCHAR4      (array [ 4 ] of char )
        nulstr       DMCHAR5      (array [ 5 ] of char )
    locdn        DMCLOCDN     (struct)  <--- compacted
        noc          DMNOC        (ushort: 14)
        dig3         DMUNS4       (ushort: 4)
        dig1         DMUNS4       (ushort: 4)
        dig4         DMUNS4       (ushort: 4)
        dig2         DMUNS4       (ushort: 4)
          Stored Tuple Layout      FC_LINE
```

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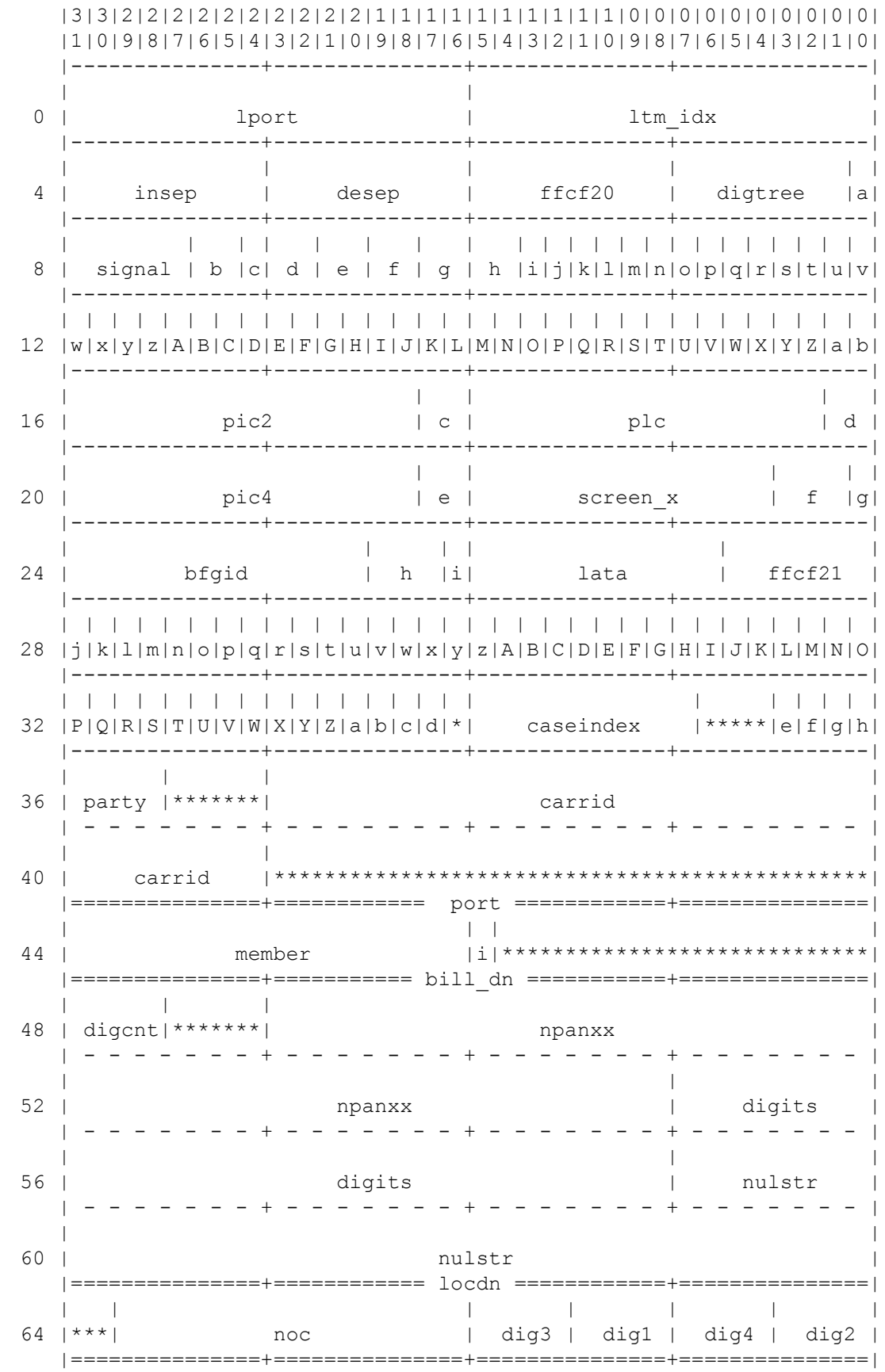


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```
( 68 bytes )
```

## 4. Population rules for RLfc_line

### Relation Description

```
Line feature construction

 Individual line feature data.


"This file does not include any export crosschecks.

As of the 5e9 software release port names no longer contain any
physical information. Information formerly contained in the port
name can now be found in either RLfc_porttyp, RLckt_port, RLcktdata
or RLunit_ckt or a combination of these. See PCR text and data
documents (u1001, u1002).


*********************************************************
*  NOTE:                                                *
*                                                       *
*  Checks for servclass in fc_porttyp are not sufficient *
*  due to intercept, therefore checks for servclass are  *
*  being done by using RLrc_oeinfo then RLrc_lcc.        *
*                                                       *
*  For ACQS, RPA, nailup lines without a TN,            *
*  and default service BFG, RLrc_oeinfo                 *
*  doesn't exist, but many other checks don't apply in  *
*  those cases anyhow, so you can                       *
*       "find <= 1 rc_oeinfo in RLrc_oeinfo"            *
*  and do your service class checks within that.        *
*                                                       *
*  Try to read rc_oeinfo and rc_lcc immediately after   *
*  the "for fc_line in RLfc_line" so that loop jamming  *
*  will jam these reads in addition to the fc_line loop *
*  itself.                                              *
*********************************************************


Application specific poprules for RDTA ports

The remote protocol access (RPA) capability allows
RDTA ports to be equipped on an access switch using
either a pseudo basic rate interface (BRI) port or an
extended digital subscriber line (EDSL) PRI port.
Refer to the poprules in RLdn_rdta for more details.

Note:   No RLrc_oeinfo or RLrc_lcc tuples are populated
        for RDTA ports.  See the previous for service
        class information.
Also:   RLfc_line does not contain tuples for RDTA EDSL PRI
        ports.  They are populated in RLfc_trunk.
```

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TUPLE SEMANTICS
---

The following RLfc_line attributes are applicable for RPA Pseudo BRI B-channel and D-channel ports. The servclass in RLfc_porttyp must equal TM_P_BRI and testport must equal DBYES. RPA does not support any business and residential customer service (BRCS) feature interaction, intercept ports or BFG default service. All the attributes not listed shall use their default values or be set for their inactive value.

| | |
|---|---|
| port | - RPA gport populated in RLdn_rdta, RLfc_porttyp |
| party | - Zero. |
| lport | - Pseudo BRI lport defined in RLlpt_pt. |
| lpt_type | - LPT_ISDN |
| screen_x | - Zero. |
| line_screen | - DBNO. |
| digtree | - Zero (not used). |
| nodial | - FCND_NONE. |
| signal | - DBNULLSIG. |
| multidn | - DBNO. |
| ani7 | - DBNO. |
| busymon | - DBNO. |
| sercomp | - DBNO. |
| freeterm | - DBNO. |
| orig | - DBNO. |
| complaint | - DBNO. |
| slus | - DBNO. |
| denybv | - DBNO. |
| locdn.noc | - Equal to RLrt_dntran.dn.noc. |
| locdn.digits | - Equal to RLrt_dntran.dn.digits. |
| billdn | - Defaults to full dn (NPA+NXX+digits). |
| carrid | - Zero. |
| ci_dial | - TEST_PROHIB. |
| fga | - DBNO. |
| mca | - DBNO. |
| brc_dn | - DBNO. |
| brc_trm | - DBNO. |
| ltm_type | - LTM_OTHER. |
| ltm_idx | - Zero. |
| mfri | - DBNO. |
| intercept | - DBNO. |
| scd_scrn | - DBNO. |

**Attribute:**

port

**Fullname:**

Port

**Attribute Description:**

This attribute is divided into sub-attribute port.member and port.module. Member is the port name of a line that should be assigned as an announcement line in relation RLfc_line. Module refers to the switching module in which this line is located.

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Possibilities range from 1 to 192. (For BRI ports, this is the appropriate ISDN BRI D-channel portname. The member should be assigned as described in RLfc_porttyp.)

remote protocol access - pseudo BRI port

If the corresponding RLfc_porttyp tuple has a servclass of TM_P_BRI then this port is an RPA pseudo BRI port. A tuple must exist in the relation RLdn_rdta where RLdn_rdta.gport. module equals RLfc_line.port.module and RLdn_rdta.gport. member equals RLfc_line.port.member. The RLdn_rdta.dn.dn attribute should match this RLfc_line.bill_dn.dn attribute. There will be a corresponding RLrt_dntran tuple; however, tuples will not exist in RLdslequip, RLequipdsl, RLdslgdata, RLpsx25ln, RLdpidb_pt RLdgrp_ri or RLri_dgrp for RPA pseudo BRI ports. There is not a tuple in RLrc_oeinfo for either type of RPA port. Refer to population rules for RLdn_rdta.p.

**Attribute:**
port.member
**Fullname:**
Port member number
**Attribute Description:**
Port member number.

**Attribute:**
port.module
**Fullname:**
Module
**Attribute Description:**
Module where line is located.

**Attribute:**
party
**Fullname:**
User number
**Attribute Description:**
For ISDN lines, which are populated in RLfc_porttyp, and RLfc_porttyp.servclass = FC_ISDN, verify that the bit corresponding to this party value in RLdslequip(port).ptyequip is set. See pop rules for RLdslequip.ptyequip for further information.

Must have the value FCP_INDI if the port is a member of a line side stand-alone announcement multi-line hunt (MLH) group (MLHG) in a module that has the stand alone call processing option, that is, the port points to a MLH group which is local to a module and the parameter GLsalgrp contains that MLH group number.

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For export, party must be FCP_INDI. Multiparty ringing is not supported.

A party line will keep the same port module and member number, therefore this attribute is included as a key to this relation.

If the line uses multi-frequency ringing, then the party attribute defines the ringer configuration (tip-side, ring-side) and frequency (1-5). Refer to the table in DMparty.G for a mapping between 'old' party values and the current ones (this table is reproduced in the retrofit pop rules for 5E4(2) to 5E5 section).

A five-party service line may only be assigned ring-side MFR party values (one to five).

SLC(R) 96 lines may not be assigned tip-side MFR party values or FCMFR_R5. That is, party may take on values one to four only.

For lines on integrated digital carrier unit (IDCU) remote terminals, MFR party may take on values of one to five only.

For service class FC_ISATND and cpetype IS_TYPEATT, party must be marked as FCP_INDI.
For service class FC_MODEM, party must be FCP_INDI.
For service class OA_AQLINE, party must be FCP_INDI.
For service class FC_2WIRE_INDV, party must be FCP_INDI.

**Attribute:**
one_block
**Fullname:**
1+Blocking type
**Attribute Description:**
The one_block attribute is used to determine level of 1+blocking on a line.

**Attribute:**
lport
**Fullname:**
Logical port
**Attribute Description:**
This attribute defines the logical port and is a sequential key administered per SM. It is an RC/ODA assigned value. The lport and lpt_type values are used as key values to access relations such RLis_ilhb, RLis_term, RLtrmfeats and other user associated relations.

All lines (analog, ISDN and plain old digital service [PODS]) and BRCS trunks are assigned lports, although the ISDN and analog lport values will be tracked and assigned separately to conserve

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memory as is currently done with logical termination indexes. In the case of multi-party service, or multipoint BRI, each user will have an associated unique lport/lpt_type value.

The lport attribute values are assigned in new offices so that the assigned numbers are at the low end of the 1-8191 (SM) or 1-65531 (SM-2000) range with no holes. Recent change deletions will create holes in the spectrum of assigned numbers. These holes are recorded in RLrc_lphol or RLrc_alphol (depending on the lpt_type). The lport attribute assignments must be retained across all offline ODA processes.

For default service, the 'lport' is the 'bfgid' instead of a sequentially administered key.

lport = bfgid
lpt_type = LPT_BFG

**Attribute:**
lpt_type
**Fullname:**
Logical port type
**Attribute Description:**
Indicates whether the 'lport' is part of the LPT_ISDN range which includes ISDN (including PODS) and shared analog lines or is part of the LPT_OTHER range which covers unshared analog lines.

If the lpt_type is LPT_BFG, then this tuple is used for a default service BFG and the 'lport' contains the bfgid.

**Attribute:**
screen_x
**Fullname:**
Screening index
**Attribute Description:**
Allows for different billing rates. A coin line is an example of the need for this attribute. This tells the system about a special billing case. This index also allows for routing the calls to the appropriate trunk location. For a servclass of FC_SATSTLN, this should be set to zero and the value obtained from RLrc_lcc should be used to populate the screen_x attribute in RLrtsatln.

**Attribute:**
line_screen
**Fullname:**
Line screen
**Attribute Description:**
The 'line_screen' attribute indicates whether or not a line has any associated toll/code restriction/diversion or wide area telephone service (WATS) band screening. The line_screen bit should be set

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to DBYES if the line has any of these. Note that the 'line_screen' bit for the line class code assigned to this line should agree with this 'line_screen' bit. The default is DBNO.

**Attribute:**
insep
**Fullname:**
Incoming separation class
**Attribute Description:**
Incoming/originating separation class, used by division of revenue. The insep attribute is based on line class code and rate area exchange.

**Attribute:**
desep
**Fullname:**
Destination separations class
**Attribute Description:**
Destination separations class, used by division of revenue. The desep attribute is based on line class code.

**Attribute:**
digtree
**Fullname:**
Digit analysis tree
**Attribute Description:**
Digit analysis table identifier which is used in call processing to tell what table to start at in analyzing the dialed numbers. The relation DA_DIGSTRT contains the table information.

**Attribute:**
nodial
**Fullname:**
No dialing features
**Attribute Description:**
Allows for special no dialing features. Individual regular lines will say NONE and special no dial lines will say DIRCON or MANUAL. DIRCON is handled with the relation FC_DIRCON.

If this attribute has a value of FCND_MANUAL and this line has a terminal group feature associated with it, it is then recommended that the user consult with the population rule for attribute atnd_dn in the pop-rule file RLrt_tg.P

The no dialing feature is not supported for servclass FC_ISDN (nodial=FCND_NONE)

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```
if (nodial == FCND_MANUAL) then
begin
        must find no tuple in RLcf_ltm on sm
                (fc_line.port.module)
end

if (nodial == FCND_DIRCON) then
begin
        for every tuple in RLdn_feats on sm(GL_pcrid)
        where (RLdn_feats.lead_module equals module and
               RLdn_feats.ltm_type equals ltm_type and
               RLdn_feats.ltm_idx equals ltm_idx)
        when found
        begin
             for every attribute ftent in
             {RLdn_feats.ftent1..RLdn_feats.ftent6}
             where ((ftent.fid | 0x00) equals ftent.fid)
             when found
             begin
                 must find exactly 1 tuple in RLcf_opts
                 where (RLcf_opts.feat_id equals ftent.fid)
                 when found
                 begin
                     RLcf_opts.fwd_cndtn must_not_be_in
                     {CFN_DBUSY,CFN_DIDLE,CFN_DBSYIDL}
                     RLcf_opts.actvn must_be ACT_NONE
                 end
             end
        end
end

In addition, for international:
Subscriber lines with timed hotline feature are marked THOTLN.
These features are mutually exclusive.  DIRCON and THOTLN
use rlFC_DIRCON to provide the number to direct connect to.
Multiway features may not be assigned to the line which has
nodial say MANUAL.  For service class FC_2WIRE_INDV, nodial must
be FCND_NONE.
```

**Attribute:**

signal

**Fullname:**

Signal mode

**Attribute Description:**

Allows each line to be either 'touch tone/dial pulse' dual mode (DBTT) or 'dial pulse only' mode (DBDP). The symbol for 'touch tone only' mode (DBTO) should not be populated in this relation. If servlcass equals FC_ISDN, signal must be DBDCHAN.

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**Attribute:**
brc_trm
**Fullname:**
BRCS terminal features boolean
**Attribute Description:**
Specifies whether or not any terminal assignable BRCS features are assigned to this port.

If DBYES, a tuple will exist in RLtrmfeats with keys RLfc_line.lport, RLfc_line.lpt_type, and range equal to zero If more than six terminal features are assigned, additional tuples using range equal to one through four in sequential order will exist.

**Attribute:**
brc_dn
**Fullname:**
BRCS directory number (DN) features boolean
**Attribute Description:**
Specifies whether or not any DN assignable BRCS features are assigned to this primary LT port (DN or MLHG member). If DBYES, a tuple will exist in RLdn_feats with key RLfc_line.port.module, ltm_type, and ltm_idx and range equals zero. If more than six DN features are assigned, additional tuples using range = 1 thru 4 in sequential order will exist.

If fc_porttyp.servclass is FC_ISDN, then brc_dn can not be DBYES unless attribute mca is DBYES.

**Attribute:**
ltm_type
**Fullname:**
Logical termination type
**Attribute Description:**
Logical termination index type.

**Attribute:**
ltm_idx
**Fullname:**
Logical termination index
**Attribute Description:**
Logical termination index. An RC/ODA assigned ltm_idx value. The port.module and ltm_idx values are used as key values lead_module and ltm_idx, respectively to access the relations such as RLis_line, RLshterm, etc. See RLrc_qidx for rules for assigning the value. If ltm_type is equal to LTM_ISDN, RLis_line requires a tuple keyed by lead_module and ltm_idx.

This index is a sequential number assigned to correspond to the primary DN/MLHG member for this port. If a DN exists

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(RLfc_line.locdn), then fc_line.ltm_idx = RLrt_dntran.ltm_idx and fc_line.ltm_type is equal to RLrt_dntran.ltm_type. If an MLHG member exists that has a PGGPMAP tuple belonging to this port it is a primary MLHG member and not a secondary-only MLHG member. (The MLHG member is primary when the grpnum and member attributes in the RLpggpmap tuple translate to a primary MLHG member - this is known when RLis_line.primary is DBYES using keys RLis_line.lead_module and RLgroup_port.ltm_idx to access RLis_line. Note: group_port.ltm_type must be LTM_ISDN for IS_LINE to exist.) Then fc_line.ltm_idx is equal to RLgroup_port.ltm_idx and fc_line.ltm_type is equal to RLgroup_port.ltm_type

If both primary DN and MLHG member exist on this line then the ltm_type and ltm_idx values in RLfc_line, RLrt_dntran, RLgroup_port are the same.

Note: Attribute ltm_idx has a domain range of 0-8191 (SM) or 0-65535 (SM-2000). However, 65532-65535 are reserved for RC. Also, 0 is used for PODs lines as described in the following:

```
RLfc_line.brc_dn        = DBNO
RLfc_line.mca           = DBNO
RLfc_line.brc_trm       = DBNO
RLis_line.brc           = DBNO

The ltm_idx value must  be zero.
RLfc_line.ltm_idx       = Zero
RLis_line.ltm_idx       = Zero
RLrt_dntran.ltm_idx     = Zero
```

The existence of an index implies the value one or greater. If no index is defined, RLrc_qidx(ltm_type) would contain an index value of zero and no tuple would exist in this relation. Therefore, ltm_idx must be greater than zero in this relation.

**Attribute:**
mca
**Fullname:**
Multiple call appearance indicator
**Attribute Description:**
Multiple call appearance indicator. Set to DBYES if RLis_term.cpetyp (where RLfc_line.lport is the key to RLis_term) is IS_TYPEA, IS_TYPEB, IS_TYPEC, IS_TYPED, or IS_TYPATT. Otherwise, set to DBNO.

If 'mca' is DBYES, then ltm_type must be LTM_ISDN. For standard (STD) BRI users, 'mca' must be DBYES.

**Attribute:**
privacy
**Fullname:**

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Privacy indicator

**Attribute Description:**

Indicates whether this port has all-call privacy. If privacy indicator is set to PRIVATE, the LT port information will not be displayed at other terminals. If privacy indicator is set to PUBLIC, the LT port information will be displayed at the other terminals. If the privacy indicator is NOT_SET, the presentation status will depend on the setting of the acp_ind attribute in RLscridxpa or the office privacy parameter, Gldn_priv. Features such as the incoming calling line ID (ICLID) feature and the inspect feature would check the privacy indicator before displaying LT port information.

If the calling party number presentation (CPNP) special feature is active (SFID50 is set), then the default value for the privacy attribute is NOT_SET, otherwise the default value is PUBLIC.

**Attribute:**

mdc_member

**Fullname:**

Message desk center member

**Attribute Description:**

Indicates whether the port is a message desk center member.

DBYES is allowed only if the line is a member of a multi-line hunt group (MLHG) (that is, RLpggpmap has a tuple keyed by RLfc_line.port). If any member of an MLHG has mdc_member equal to DBYES, then all members of the MLHG must have mdc_member equal to DBYES. This means that RLrt_mhg(RLpggpmap(port).portgrp.grpnum).mdc must be DBYES.

DBYES is not allowed for STD BRI or analog shared with STD BRI.

**Attribute:**

threeway

**Fullname:**

Three-way calling

**Attribute Description:**

Three-way calling privileges.

**Attribute:**

flash

**Fullname:**

Flash activated features

**Attribute Description:**

Indicates if there are any flash activated features.

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**Attribute:**
multidn
**Fullname:**
Multiple directory number
**Attribute Description:**
This field is used to indicate that a port has multiple DNs associated with it.
This bit is only used when multiple DNs are strictly associated with a specific port, which in the case of MLHG depends on the hunt type, and the way in which the multiple DN is attached to the MLHG. A multiple DN can be associated with a specific port for a MLHG if, and only if, RT_DNTRAN.ucd_muph does not equal DBYES. Plain old telephone service (POTS) lines can also be assigned multiple DNs.

For service classes FC_ISDN and FC_ATND, if 'multidn' is DBYES, then RLis_line(keys).shared must be DBNO.

**Attribute:**
ani7
**Fullname:**
Automatic number identification (ANI) 7 boolean
**Attribute Description:**
This field is used to indicate ANI7 on the line for outpulsing a 7 to a centralized automatic message accounting (CAMA) or Traffic Service Position System (TSPS) operator for a special operator lookup. If ANI7 treatment is desired on the line the field should be set to DBYES, otherwise DBNO. If servclass is FC_ISDN, 'ani7' is DBNO. If servclass is FC_ISATND, 'ani7' is DBNO.

**Attribute:**
pingring
**Fullname:**
Ping ring
**Attribute Description:**
Indicates if ping ring tone should be given.

**Attribute:**
busy
**Fullname:**
Busy features
**Attribute Description:**
Indicates whether busy features are allowed.

**Attribute:**
busymon
**Fullname:**

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Busy monitorable

**Attribute Description:**

DBYES enables this port to be monitored by the ISDN attendant (ISAT) consoles associated ISAT group. The following servclasses (as found in FC_PORTTYP) that can be monitored by the BLF indicators. It should be interpreted as the maximum set that can be expected.

If this attribute is set to DBYES, the DN of this port must be reflected in the DN bit of the relations, RLMONI_BLF and RLMASK_BLF, for that particular tuple having the same normalized office code (NOC) and hundreds group. Example:

The directory number (DN) 979-1234 has seven digits. The '979' indicates the office code and the '12' indicates the hundreds group.

Note: The office code is not necessarily the same as the NOC. Refer to RLOfficecode poprules.

Also, this port must have a tuple in the relation, RLRC_OEINFO, with RLrc_oeinfo.att_grp having the value of the ISAT MLHG monitoring this DN. If the line is an MCA line, then RLfc_line.busymon must equal RLis_line.busymon. Refer to the poprules of RLis_line for more detail.

Note: If the DN of this port is a main DN of an MLHG, then this attribute is always DBNO.

Dependency: If DBYES, RLrc_oeinfo(RLfc_line.member, RLfc_line.module, FCP_INDI).att_grp must not be zero.

**Attribute:**

sercomp

**Fullname:**

Series completion

**Attribute Description:**

Indicates if the series completion feature is active.

**Attribute:**

freeterm

**Fullname:**

Free termination

**Attribute Description:**

Usually DBNO except for direct connect and manual lines. DBYES means the port is not billed. For service class OA_AQLINE, freeterm must be DBYES. For secondary only ISDN lines, freeterm must be DBNO. For service class FC_2WIRE_INDV, freeterm must be DBYES.

**Attribute:**

roh

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**Fullname:**
Receiver off tone
**Attribute Description:**
Receiver off hook tone. Normally set to DBYES. Set to DBNO for direct connect, manual lines and lines connected through a T1 carrier.

**Attribute:**
orig
**Fullname:**
Originator
**Attribute Description:**
Indicates if the customer is allowed to originate. For 911 lines 'orig' is always DBNO. For direct connect and manual lines 'orig' is DBYES. The orig attribute is always DBYES for the following servclass FC_COIN, FC_4PFS,FC_5PTY,FC_8PSS,FC_10PTY, and two-party operator number identification (ONI) lines. Suspend origination on a FC_4PSS line indicates bridged service line.

**Attribute:**
complaint
**Fullname:**
Complaint
**Attribute Description:**
Complaint observing. When complaint is DBYES, an AMA record is generated for every call coming out of the line. Default is DBNO.

**Attribute:**
slus
**Fullname:**
Subscriber line usage study
**Attribute Description:**
Subscribe line usage study.

**Attribute:**
fga
**Fullname:**
Feature group A (FGA)
**Attribute Description:**
Indicates DBYES if the line is a feature group A line, DBNO if it is not. The default is DBNO. FGA lines are either lines to inter-LATA carriers or inter-LATA foreign exchange lines. FGA lines cannot be two, four, eight, or ten-party, manual, coin, charge-a-call, hotel/motel, or ISDN.
FGA lines are allowed to series complete and may be part of an MLHG.

**Attribute:**
optdtail

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**Fullname:**
Optional detail billing
**Attribute Description:**
Set optdtail to DBYES when a more detailed customer bill needs to be generated. Default is DBNO.

**Attribute:**
traffic
**Fullname:**
Traffic
**Attribute Description:**
Traffic sampling study.

**Attribute:**
denybv
**Fullname:**
Deny busy verification
**Attribute Description:**
Allows RTA to selectively deny busy verification of a line.

**Attribute:**
ffcf22
**Fullname:**
ffcf22
**Attribute Description:**
Field feature bit for future use.

**Attribute:**
cidcw
**Fullname:**
cidcw
**Attribute Description:**
This field is used by Calling Identity Delivery on Call Waiting (CIDCW) Special Feature in 5e9.1 Software Release (SR). The cidcw field will be used to indicate whether CIDCW feature is active (DBYES) or in-active (DBNO). The default value is DBNO.

The CIDCW feature is allowed only on lines with service class of INDIV, 4WINDIV, ATTENDANT or PBX. It is not allowed on a MLHG lines. The cidcw cannot be DBYES unless office has SFID133 set Y (that is, the CIDCW feature is purchased) and the line has BRCS set to Y and Call Waiting Terminating and ICLID CND or CNAM features are assigned to the line.

**Attribute:**
ppm_ind

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**Fullname:**
Periodic pulse metering indicator
**Attribute Description:**
Not used by U.S. Default to LPNO_PPM.

**Attribute:**
trace
**Fullname:**
Malicious call trace
**Attribute Description:**
Type of malicious call trace that is active.

**Attribute:**
otrace
**Fullname:**
Originating malicious call trace
**Attribute Description:**
Type of originating malicious call trace that is active.

**Attribute:**
epls_pri
**Fullname:**
Emergency priority line service (EPLS) priority level
**Attribute Description:**
EPLS priority level.

**Attribute:**
ac_standing
**Fullname:**
Standing alarm call
**Attribute Description:**
Standing alarm call service.

**Attribute:**
ac_onetime
**Fullname:**
One-time alarm call service
**Attribute Description:**
One-time alarm call service.

**Attribute:**
mach_typ
**Fullname:**
Machine type
**Attribute Description:**
Indicates the presence of machine type equipment on the line. The domain used for this attribute is DMBOOL.

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DBYES indicates machine type equipment on the line, DBNO indicates no machine type equipment. The default is DBNO. DBYES is only possible when the subscriber signaling type applicable to the office (Glsub_sigtyp) equals RCSUBS02.

Note: Not used by U.S. Default to DBNO.

**Attribute:**
carrid
**Fullname:**
Carrier ID
**Attribute Description:**
Indicates the presubscribed carrier for the line. Once it is specified, it must be a valid carrier ID which exists in the RLfc_carr relation. (Note: This value is independent of the mass presubscribed carrier, GLcarrid).

**Attribute:**
pic2
**Fullname:**
Presubscribed intra-LATA-toll carrier ID
**Attribute Description:**
Identifies the presubscribed intra-LATA-toll carrier (PIC2) for the line.

The pic2 must be $NULL_BCARID (default) if the ICLATA SF (SFID 149) is not activated. When the pic2 is set, there must be a valid carrier in RLfc_carr corresponding to the pic2 value.

The presubscribed intra-LATA-toll carrier will be used for ICLATA calls dialed without a carrier identification code (CIC). This value is independent of the mass presubscribed intra-LATA-toll carrier, Glpic2.

Note: pic2 is stored as a binary (DMbcarid), unlike carrid (DMcarrid).

**Attribute:**
plc
**Fullname:**
Presubscribed intra-LATA local carrier ID for an alternate LSP
**Attribute Description:**
This attribute contains the presubscribed intra-LATA local carrier ID for an alternate LSP.

**Attribute:**
pic4

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**Fullname:**
Presubscribed international carrier ID
**Attribute Description:**
Identifies the presubscribed international carrier ID.

**Attribute:**
ci_dial
**Fullname:**
Carrier dialing status
**Attribute Description:**
Specifies the carrier dialing permissions. The possible values are:
CI_ALLOWED (may dial feature group D carrier access code)
CI_PROHIBITED (cannot dial feature group D carrier access code)
CI_REQUIRED (must dial feature group D carrier access code)
TEST_ALLOW (test call may dial feature group D carrier access code)
TEST_PROHIB (test call cannot dial feature group D carrier access code)
TEST_REQ (test call must dial feature group D carrier access code)
The default is CI_ALLOWED.

**Attribute:**
ln_type
**Fullname:**
Leased network type
**Attribute Description:**
Leased network type.
Must be LN_NULL if this is STD BRI or analog shared with STD BRI.

**Attribute:**
ccv_ind
**Fullname:**
Call charge verification
**Attribute Description:**
DBYES enables call charge verification (CCV). This indicator may only be set if the global parameter Glccvopt is DBYES (default DBNO).
NOTE: Not used by U.S. Default to DBNO.

**Attribute:**
secm_ind
**Fullname:**
Subscriber expensive call monitoring
**Attribute Description:**
DBYES enables the subscriber expensive call monitoring (SECM). This indicator may only be set if the global parameter Glsecmopt is DBYES (default DBNO). Not used by U.S. Default to DBNO.

**Attribute:**
datat

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**Fullname:**
Data terminal indicator
**Attribute Description:**
Not used by U.S. Default to DBNO.

**Attribute:**
dn_bfg
**Fullname:**
DN feature type BRCS feature group (BFG)
**Attribute Description:**
DN/member feature type BFG. Set to DBYES, if there exist RLdn_feats tuple with bfgid assigned as one of the keys.

**Attribute:**
trmbfg
**Fullname:**
Terminal feature type BFG
**Attribute Description:**
Terminal feature type BFG.
Set to DBYES, if there exist RLtrmfeats tuple with bfgid assigned as one of the keys.

**Attribute:**
bfgid
**Fullname:**
BRCS feature group ID
**Attribute Description:**
Identifier for the BRCS feature group.

**Attribute:**
cfv_on
**Fullname:**
Call forwarding variable (CFV) activation
**Attribute Description:**
Activation status bit for circuit switched voice (CSV) CFV or circuit switched data (CSD) CFV feature. If the terminal is assigned to a BFG with CSV CFV or CSD CFV feature, this bit is used by call processing to determine its activation status.

**Attribute:**
cfbl_on
**Fullname:**
Call forwarding busy line active
**Attribute Description:**
Activation status bit for CSV CFBL or CSD CFBL feature.
If the terminal is assigned to a BFG with CSV CFBL or CSD CFBL feature, this bit is used by call processing to determine its activation status.

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**Attribute:**
cfda_on
**Fullname:**
Call forwarding don't answer active
**Attribute Description:**
Activation status bit for CSV CFDA or CSD CFDA feature.
If the terminal is assigned to a BFG with CSV CFDA or CSD CFDA feature, this bit is used by call processing to determine its activation status.

**Attribute:**
disp_on
**Fullname:**
Display (DIS) active
**Attribute Description:**
Activation status bit for DIS feature. If the terminal is assigned to a BFG with DIS feature, this bit is used by call processing to determine its activation status.

### 5. FC_LINE Population rules continued.

**Attribute:**
cwo_on
**Fullname:**
Call waiting (CW) activation
**Attribute Description:**
Call waiting.

**Attribute:**
cwt_on
**Fullname:**
Call waiting
**Attribute Description:**
Activation status bit for CW feature. If the terminal is assigned to a BFG with CW feature, this bit is used by call processing to determine its activation status.

**Attribute:**
cnd_on
**Fullname:**
Call number delivery (CND) activation
**Attribute Description:**
Activation status bit for calling number delivery feature. If the terminal is assigned to a BFG with CND feature, this bit is used by call processing to determine its activation status. If this bit is set to DBYES, the terminal is active.

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**Attribute:**
cpnbn_on
**Fullname:**
Calling party number (CPN)/billing number (BN) activation
**Attribute Description:**
Activation status bit for CPN/BN feature. If the terminal is assigned to a BFG with CPN/BN feature, this bit is used by call processing to determine its activation status. This attribute must be set to DBYES when the CPN/BN feature is activated (on) for the directory number. This attribute must be set to DBNO when the CPN/BN feature is deactivated (off). This attribute is used when the BFG is assigned to analog lines.

**Attribute:**
asi_im_on
**Fullname:**
Advanced service interface (ASI) implicit mode active toggle (changeable via the customer oriented recent change [CORC])
**Attribute Description:**
Activation status bit for the implicit mode of ASI. If the terminal is assigned to a BFG with an implicit ASI feature, this bit is used by call processing to determine its activation status. This attribute must be set to DBYES when the implicit ASI feature is activated (on) for the directory number. This attribute must be set to DBNO when the implicit ASI feature is deactivated (off). This attribute is used when the BFG is assigned to analog lines.

**Attribute:**
bfg_asi
**Fullname:**
Advanced service interface BFG feature
**Attribute Description:**
Locator of ASI parameter tuple, utilized when 'bfgid' is not zero, and an ASI feature exists in the RLtrmfeats tuple which corresponds to the bfgid assigned to this terminal.

DBYES (find ASI parameter via pseudo port key).

**Attribute:**
bfg_ars
**Fullname:**
Auto route selection (ARS)
**Attribute Description:**
Locator of ARS parameter tuple, utilized when 'bfgid' is not zero, and an ARS feature exists in the RLtrmfeats tuple which corresponds to the bfgid assigned to this terminal.

DBYES (find ars parameter via port key).

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**Attribute:**
bfg_puo
**Fullname:**
Pick up originating (PUO) BFG feature
**Attribute Description:**
Locator of PUO parameter tuple, utilized when 'bfgid' is not zero, and a PUO feature exists in the RLtrmfeats tuple which corresponds to the bfgid assigned to this terminal.

DBYES (find ars parameter via port key).

**Attribute:**
bfg_put
**Fullname:**
Pick up terminating (PUT) BFG feature
**Attribute Description:**
Locator of PUT parameter tuple, utilized when 'bfgid' is not zero, and a PUT feature exists in the RLdn_feats tuple which corresponds to the bfgid assigned to this terminal.

DBYES (find ars parameter via port key).

**Attribute:**
bfg_eds
**Fullname:**
Electronic directory service (EDS) BFG feature
**Attribute Description:**
Locator of EDS parameter tuple, utilized when 'bfgid' is not zero, and an EDS feature exists in the RLdn_feats tuple which corresponds to the bfgid assigned to this terminal.

DBYES (find ars parameter via port key).

**Attribute:**
bfg_idp
**Fullname:**
Individualized dialing plan (IDP) BFG feature
**Attribute Description:**
Locator of IDP parameter tuple, utilized when 'bfgid' is not zero, and an IDP feature exists in the RLtrmfeats tuple which corresponds to the bfgid assigned to this terminal.

DBYES (find ars parameter via port key).

**Attribute:**
mfri
**Fullname:**
Multi-frequency (MF) ringing individual
**Attribute Description:**

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This attribute indicates if this is multi-frequency ringing individual. The attribute is only used for analog ports with a service class of 'individual' (FC_INDVDL).

**Attribute:**
ar_alw
**Fullname:**
Auto recall (AR) allowed
**Attribute Description:**
Local area signaling service (LASS) automatic recall allow indicator. Set to DBNO if the customer specifically wants access denied to this feature because of service class code restrictions. If this is not the case, the value is DBYES indicating the customer is allowed access to the feature. If a user subscribes to this feature, RC will automatically set this bit to DBYES. The following service class codes will allow the customer to access the LASS AR feature: FC_INDVDL, FC_ATTENDANT, FC_ISDN, FC_ISATND, FC_4WIRE_INDV, FC_PBX.

The LASS AR generally available feature will not be allowed on part IV terminals defined in the 5E4 BRI specification. For PODS terminals, RLfc_line.ltm_idx equals zero.

Use of AR on CSD calls is only allowed for STD BRI users. RC/ODA will block subscription of LASS AR constructed features by users' other than standard BRIs. When a generally available LASS AR feature supports CSD calls call processing code will block its use by users other than STD BRIs.

**Attribute:**
ac_alw
**Fullname:**
Auto callback (AC) allowed
**Attribute Description:**
LASS automatic callback allow indicator. Set to DBNO if the customer specifically wants access denied to this feature or because of service class code restrictions. If this is not the case, the value is DBYES indicating the customer is allowed access to the feature. If a user subscribes to this feature, RC will automatically set this bit to DBYES. This bit is not looked at by feature control (FC) if the feature is offered on a subscription basis. The following service class codes will allow the customer to access the LASS AC feature:

FC_INDVDL, FC_ATTENDANT, FC_ISDN, FC_ISATND, FC_4WIRE_INDV, FC_PBX

The LASS AC generally available feature will not be allowed on part IV terminals defined in the 5E4 BRI specification. These terminals (PODS) have the following characteristic: RLfc_line.ltm_idx equals zero.

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**Attribute:**
cot_alw
**Fullname:**
Customer originated trace (COT) allowed
**Attribute Description:**
Customer originated trace allow indicator. Set to DBNO if the customer specifically wants access denied to this feature or because of service class code restrictions. If this is not the case, the value is DBYES. When COT is offered on a generally available basis, FC code will look at this bit to determine if access to the COT feature is allowed (DBYES) or not allowed (DBNO). When COT is offered on a subscription basis, FC will not look at this bit. However, if a user subscribes to this feature, RC will automatically set this bit to DBYES so that Audits and RTA can look at this bit in order to save work in determining whether or not there should be an associated incoming line history block (ILHB) tuple. The following service class codes will allow the customer to access the COT feature:
FC_INDVDL, FC_ATTENDANT, FC_ISDN, FC_ISATND, FC_4WIRE_INDV, FC_PBX

**Attribute:**
ffcf19
**Fullname:**
ffcf19
**Attribute Description:**
Field feature bit for future use.

**Attribute:**
ffcf20
**Fullname:**
Unsigned 8 reserved for future field feature use
**Attribute Description:**
Not assigned yet.

**Attribute:**
ffcf21
**Fullname:**
Unsigned 6 reserved for future field feature use
**Attribute Description:**
Not assigned yet.

**Attribute:**
pcp_alw
**Fullname:**
Per-call privacy (PCP)

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**Attribute Description:**

Per-call privacy allow indicator. Set to DBNO if the customer specifically wants access denied to this feature or because of service class code restrictions. If this is not the case, the value is DBYES indicating the customer is allowed access to the feature. If a user subscribes to this feature, RC will automatically set this bit to DBYES. This bit is not looked at by FC if the feature is offered on a subscription basis. The following service class codes will allow the customer to access the incoming line call identification (ICLID) PCP feature:

FC_ATTENDANT, FC_INDVDL, FC_4WIRE_INDV, FC_ISDN, FC_ISATND, FC_911, FC_SATSTLN, TM_CALLBK, FC_PBX.

Note: The following service class codes will allow the customer to access the ICLID PCP feature only if the calling party number presentation (CPNP) special feature is active (SFID50 is set):

FC_TWOPTY,FC_HOTMOTL,FC_COIN,FC_2PTY. FC_CHGACALL, PBXHOTMOT

If the CPNP special feature is not active (SFID50 is not set), pcp_alw must be set to DBNO.

The LASS ICLID PCP generally available feature will not be allowed on part IV terminals defined in the 5E4 BRI specification.

**Attribute:**

intercept

**Fullname:**

Intercept

**Attribute Description:**

This bit indicates that the DN associated with this 'user' has been placed on intercept. Intercept basically denies the user origination and termination capabilities. It can be determined from the termclass in RLrt_dntran (termclass equals RTTC_AGING).

**Attribute:**

bfg_sc1

**Fullname:**

One-digit speed calling (SC) parameter

**Attribute Description:**

Locator of SC parameter tuple, utilized when bfgid is not zero, and an one-digit SC feature exists in the RLtrmfeats tuple which corresponds to the bfgid assigned to this terminal.

DBYES (find sc1 parameter via port key).

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**Attribute:**
bfg_sc2
**Fullname:**
Two-digit speed calling parameter
**Attribute Description:**
Locator of SC parameter tuple, utilized when bfgid is not zero, and an two-digit SC feature exists in the RLtrmfeats tuple which corresponds to the bfgid assigned to this terminal.

DBYES (find sc1 parameter via port key).

**Attribute:**
lsf_sub
**Fullname:**
LASS selective feature subscription boolean
**Attribute Description:**
Set this field to DBYES if at least one of the DNs associated with this terminal (where this terminal is the lead terminal of associated DNs), including MLHG DNs, is subscribed to any of the 5E6 LASS features: selective call rejection (SCR), selective call acceptance (SCA), computer access restriction (CAR), selective call forwarding (SCF) and selective distinctive alert (SDA).

The RC/V should set this field to DBYES if 'lsf_cnt' in the associated RC_OEINFO is non-zero.

The RC/V should reset this field to DBNO if no more LASS features are assigned to any of DNs associated with this terminal (lsf_cnt equals zero).

This field is used to determine whether there needs to be an associated ILHB because of subscription to the 5E6 LASS features. If this field is set to DBYES, the audits and RTA should make sure of existence of a corresponding ILHB.

The allocation of the ILHB through general availability of 5E6 LASS features is covered by allow/deny fields: scr_gen_alw, sca_gen_alw, scf_gen_alw and sda_gen_alw.

**Attribute:**
scr_on
**Fullname:**
Selective call rejection active
**Attribute Description:**
This field indicates whether the feature is active (DBYES) for all analog lines whose 'ltm_type' is equal to LTM_OTHER. (Note: The 'ltm_type' of shared analog lines is LTM_ISDN.)

Through RC/V or CORC, the feature can be activated or deactivated by setting this field to either

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DBYES or DBNO respectively.
For those lines which have a corresponding tuple in
RLltsbport, this attribute is only be maintained on
the main(lead) port of line time slot bridging lines
(LTSB). The value of this attribute on an associated
non-lead port is a `don't care'.

ODA must set this field to DBNO for new start offices.

Activation conditions:
---

A feature will not be activated unless
1. there is at least one DN stored in the screen list.
2. Remote telephone number (RTN) or forward-to-DN is defined for SCF and SCA/CAR.
3. Non-acceptance termination treatment (NAT) is defined for SCA/CAR.
   If NAT is defined as NAT_RCRD, RTN is not required to be populated.
4. For the subscription case, the master switch in DN_FEATS is on (DBYES).

For individual DNs (non-MLHG DNs) or no-hunt DNs
of MLHG members, this is the only field to be updated
in order to activate or de-activate the feature.
The active field in DN_FEATS (for subscription case)
will not be updated.

Multi-line hunt group:
---

If this is the member one of an MLHG, the feature status of the
MLHG, 'scr_on' in MHG_CF relation, should be updated when this field,
'scr_on', or/and the master switch, 'mastsw', in DN_FEATS is (are)
changed.

The truth table is:

| FC_LINE scr_on | DN_FEATS mastersw | MHG_CF scr_on |
|---|---|---|
| DBNO | DBNO | DBNO |
| DBYES | DBNO | DBNO |
| DBNO | DBYES | DBNO |
| DBYES | DBYES | DBYES |

**Attribute:**
scf_on
**Fullname:**
Selective call forwarding active
**Attribute Description:**

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Selective call forwarding active. See the scr_on description.

**Attribute:**
sca_on
**Fullname:**
Selective call acceptance active
**Attribute Description:**
Selective call acceptance active. See the scr_on description.

**Attribute:**
sda_on
**Fullname:**
Selective distinctive alerting active
**Attribute Description:**
Selective distinctive alerting active. See the scr_on description.

**Attribute:**
scr_gen_alw
**Fullname:**
SCR through general availability
**Attribute Description:**
This field does not have any impact on subscription
but indicates whether a customer is allowed access
to the LASS SCR feature through the general availability.

This field should be set to DBYES unless a customer
specifically wants access to be denied to this
feature or service class code restricts the access.
This field is also used to populate a dynamic data
structure, ILHB. If this allow field is set to DBYES
and the office access parameter, Glscrac, is equal
to GEN_AVAIL, an ILHB tuple should be populated.
When the RC/V updates this field, the FC_LINE trigger
function RTtrfcline() should check whether an ILHB needs
to be populated or removed.

MLHG is not allowed to access the feature through
GEN_AVAIL. The 'alw' field does not affect MLHG.

Only the following service class codes are
allowed to access:

FC_INDVDL, FC_ISDN, FC_4WIRE_INDV, FC_PBX

The 5E6 LASS selective features will not be allowed on part IV
terminals defined in the 5E4 BRI specification through
generally available.

**Attribute:**

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scf_gen_alw

**Fullname:**

SCF through general availability

**Attribute Description:**

This bit indicates whether a customer is allowed to access to the LASS SCF feature through the general availability. See the scr_gen_alw description. Only the following service class codes are allowed to access:

FC_INDVDL, FC_ISDN, FC_4WIRE_INDV, FC_PBX

The 5E6 LASS selective features will not be allowed on part IV terminals defined in the 5E4 BRI specification through generally available.

**Attribute:**

sca_gen_alw

**Fullname:**

SCA through general availability

**Attribute Description:**

This bit indicates whether a customer is allowed to access to the LASS SCA feature through the general availability. See the scr_gen_alw description.

Only the following service class codes are allowed to access:

FC_INDVDL, FC_ISDN, FC_4WIRE_INDV, FC_PBX

The 5E6 LASS selective features will not be allowed on part IV terminals defined in the 5E4 BRI specification through generally available.

**Attribute:**

sda_gen_alw

**Fullname:**

SDA through general availability

**Attribute Description:**

This bit indicates whether a customer is allowed to access to the LASS SDA feature through the general availability. See the scr_gen_alw description.

Only the following service class codes are allowed to access:

FC_INDVDL, FC_ISDN, FC_PBX

Service class FC_4WIRE_INDV is not allowed to access SDA feature.

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The 5E6 LASS selective features will not be allowed on part IV terminals defined in the 5E4 BRI specification through generally available.

**Attribute:**
ls_alt_lang
**Fullname:**
Alternate Language LASS Announcement Capability.

**Attribute Description:**
Provided the user has access to the LASS features using SLE and TWO LEVEL:
When set to DBNO(default) it means the user has access to announcements in the main language.
When set to DBYES it means the user has access to announcements in the alternate language.

This attribute should not be set to DBYES if the corresponding special feature SFID119 is not active.

**Attribute:**
tgsr_on
**Fullname:**
Terminal group station restriction active on BFG
**Attribute Description:**
When an unshared analog user has its terminal group station restriction feature in a BFG, this attribute indicates whether TGSR is active or inactive.

**Attribute:**
locdn
**Fullname:**
Location directory number
**Attribute Description:**
NOC and local digits. Each port should have its corresponding NOC and local digits as populated in RLRT_DNTRAN.
For those members of a MLHG that do not have individual directory numbers assigned, populate the locdn as zero.

**Attribute:**
locdn.noc
**Fullname:**
Normalized office code
**Attribute Description:**
Normalized office code.

**Attribute:**
locdn.digits

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**Fullname:**
Digits
**Attribute Description:**
Digits.

**Attribute:**
bill_dn
**Fullname:**
Billing directory number
**Attribute Description:**
If a 'bill_dn' is specified, default to full DN equivalent of bill_dn. If 'locdn' is present default to 'locdn'. If there is a non-lead member of a regular or circular hunt group, default to full DN equivalent of the 'locdn'; however if there is a lead member, default to full DN equivalent of group DN. If there is a member of a uniform call distribution group, default to full DN equivalent of member's 'locdn' if known, otherwise default to full DN equivalent of group DN. If there is a member of an MLGH, default to full DN equivalent of subgroup TN corresponding to that member. If the member is a ISAT hunt group, default to the full equivalent subgroup TN for ISAT subgroup TN 1 (this subgroup must always exist).

A default service tuple has a bill_dn specified by the RLbfgmatch.bill_dn field. Refer to the application specific population rules for more details.

**Attribute:**
bill_dn.digcnt
**Fullname:**
Digit count
**Attribute Description:**
Digit count.

**Attribute:**
bill_dn.dn
**Fullname:**
Directory number
**Attribute Description:**
Directory Number.

**Attribute:**
erco_asgn
**Fullname:**
Executive ringer cutoff (ERCO) assigned
**Attribute Description:**
This attribute will be set to DBYES if the feature ERCO has been assigned.

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**Attribute:**
erco_act
**Fullname:**
Executive ringer cutoff active
**Attribute Description:**
Activation status bit for ERCO. This bit is used by call processing to determine its activation status. If this bit is set to DBYES, then ERCO is active.

The erco_asgn and erco_act attributes will be used to determine the value of the attribute erco_on in the RLtedb relation.

**Attribute:**
britl_alw
**Fullname:**
BRI test line originations allowed
**Attribute Description:**
This bit indicates whether or not the end customer is allowed to originate calls to the BRI dial up test line. DBYES indicates that originations are allowed. DBYES is not allowed on standard BRI.

**Attribute:**
ffcf4
**Fullname:**
Future field feature
**Attribute Description:**
Future field feature, default to DBNO.

**Attribute:**
ffcf5
**Fullname:**
Future field feature
**Attribute Description:**
Future field feature, default to DBNO.

**Attribute:**
ffcf6
**Fullname:**
Future field feature
**Attribute Description:**
Future field feature, default to DBNO.

**Attribute:**
mcld_ov
**Fullname:**
Modified calling line disconnect (MCLD) override

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**Attribute Description:**
Indicates if the modified calling line disconnect special feature should be overridden. The MCLD feature is activated via an office parameter using the transparency feature optioning system, RCFOP009. If active, permanent signal treatment is given to an originating line when it remains offhook after the called line has gone onhook. When this attribute is set to DBYES, the originator will not receive permanent signal treatment but will eventually return to dialtone after the called line goes onhook.

If the MCLD feature is not activated via TFOS, this attribute will be ignored. Therefore, without the MCLD feature active or with this attribute set to DBYES, the originator will eventually return to dialtone after the called line goes onhook.

This feature does not apply to ISDN, shared analog, coin, direct connect or manual lines. Due to serious retrofit issues, however, checks will not be implemented through RC/V to insure this attribute is correct for ISDN, shared analog, direct connect, manual or coin. Rather, call processing code will ignore the value of this attribute.

**Attribute:**
scd_scrn
**Fullname:**
Selective carrier denial (SCD) screening
**Attribute Description:**
Set to DBYES if at least one carrier has requested SCD screening for this line.

**Attribute:**
ffcf10
**Fullname:**
Future field feature
**Attribute Description:**
Future field feature, default to DBNO.

**Attribute:**
clss
**Fullname:**
Calling line side supervision (CLSS)
**Attribute Description:**
Set to DBYES if line subscribes to CLSS feature. BRCS features are not allowed if a line subscribes to CLSS. Only the service classes FC_INDVDL, FC_PBX, and PBXHOTMOT are allowed. CLSS cannot be DBYES unless office has SFID063 set.

**Attribute:**

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ucr

**Fullname:**

Unidentified call rejection (UCR) for analog lines

**Attribute Description:**

UCR is a custom calling feature used to reject calls when the calling party requests that privacy is displayed to the called party. This feature is for analog users only and although not all analog users have display capabilities, it deters callers from attempting to reach a called party with privacy. When this field is set to DBYES, incoming calls requesting privacy will be rejected. When set to DBNO, normal call processing occurs, that is, privacy is displayed at the called terminal.

If SFID47 is not set, then 'ucr' must equal DBNO.

**Attribute:**

ucr_on

**Fullname:**

Unidentified call rejection toggle (changeable via CORC)

**Attribute Description:**

The ucr_on attribute is used by the customer to activate and deactivate the UCR feature. This attribute is also supported by Recent Change. Initial offices will populate the ucr_on attribute with a DBNO. The ucr_on value is maintained over retrofits when the 'ucr' attribute is DBYES. Otherwise, the ucr_on attribute must be set to DBNO during a retrofit.

**Attribute:**

dr_ldc

**Fullname:**

Distinctive ringing for long distance calls

**Attribute Description:**

Used to activate distinctive ringing for long distance calls.

If SFID091 is not set, then 'dr_ldc' must equal DBNO.

**Attribute:**

ustwc_alw

**Fullname:**

Usage sensitive three-way calling (USTWC) allowed

**Attribute Description:**

This boolean is used to indicate that USTWC is allowed/denied on this line. A value of DBYES indicates that this feature is allowed on this line. The default is DBYES. This feature is only valid on lines with a servclass of FC_INDVDL, FC_PBX and FC_4WIRE_INDV. It is not valid on lines with CLSS or direct connect or manual lines. It is also not valid on shared analog lines. All lines that USTWC is invalid should have a value of DBNO.

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Three global parameters are used along with this attribute
to determine if USTWC is active and what AMA records to
generate. They are Glustwcama, Glustwcchrg and Glustwcfid.
These are used to determine if AMA activation records are
generated, AMA charge records are generated and if the feature
is available.
The spontaneous version of USTWC changed the meaning of
the ustwc_alw bit.
The default is still DBYES.

The 8.1 RC view is used to define the availability of
the SP USTWC feature, which is reflected in the values
populated in the Glustwcac global parameter.

If Glustwcac == SP_UNAVAIL, the ustwc_alw bit is defining the
on/off status of the Access Code version of USTWC.
DBNO is off, DBYES is on.

If Glustwcac == SP_GENAVAIL the ustwc_alw bit is defining the
on/off status of the Spontaneous version of USTWC.
DBNO is off, DBYES is on.

**Attribute:**

ustwc_subscr

**Fullname:**

Spontaneous Usage sensitive three-way calling (USTWC) allowed for
subscribers only.

**Attribute Description:**

This boolean is used to indicate that Spontaneous USTWC is
allowed/denied on this line.

The default is DBNO, the feature is not allowed.

This feature is similar to the access code version of USTWC
defined previously by the ustwc_alw bit. The difference is
that no access code is required to use the feature.

The ustwc_subscr bit is only meaningful when
the 8.1 RC view has been used to set the availability of
the SP USTWC feature to SUBSCR,
which causes global parameter Glustwcac to be set to SP_SUBSCR.

If Glustwcac == SP_SUBSCR and ustwc_subscr == DBYES, the
Spontaneous Usage Sensitive 3-Way Calling feature is
available to this line.

If Glustwcac == SP_SUBSCR and ustwc_subscr == DBNO, the
Spontaneous Usage Sensitive 3-Way Calling feature is
NOT available to this line.

This feature is only valid on lines with a
servclass of FC_INDVDL, FC_PBX and FC_4WIRE_INDV. It is
not valid on lines with CLSS or direct connect or manual

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lines.
All lines where USTWC is invalid should have a value of DBNO.
If a user flashes to use this feature, the multiway feature id stored in global parameter Glustwcfid is the feature used.

Global parameters Glustwcama and Glustwcchrg are used to determine if AMA activation records and AMA charge records are generated.

**Attribute:**
lata
**Fullname:**
Local Access Transport Area
**Attribute Description:**
Used by the "TCAP (Transaction Capabilities Application Part) Improvements for a Switch Spanning Multiple LATAs" feature. A group of lines, based on line class code (LCC), may reside in a different lata than the office lata.

**Attribute:**
tsmed
**Fullname:**
Telephone Status Monitor and Select (TSM) monitored terminal
**Attribute Description:**
Indicates if this port is being monitored by TSM. It is populated for ISDN as well as analog lines.

**Attribute:**
ovr_dny_xfer
**Fullname:**
Override Deny Transfer
**Attribute Description:**
This attribute indicates that any transfer denials provisioned by the Deny Transfer of Digit Screened Calls feature will be overridden and thus allow the transfer on this line. If this attribute is set to DBYES, all transfers are allowed regardless of whether the digit strings are marked as "denied" or not.

**Attribute:**
o_bltrig_inh
**Fullname:**
Originating Busy Line Trigger Inhibit
**Attribute Description:**
This attribute will be used to indicate whether or not to inhibit the office Originating Busy Line Trigger. Default for this attribute is DBNO. When set to DBYES, the busy line trigger will be inhibited for this line. This attribute is secured by SFID #210.
This functionality was provided by ffcf11 in 5e11.

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**Attribute:**
o_natrig_inh
**Fullname:**
Originating No Answer Trigger Inhibit
**Attribute Description:**
This attribute will be used to indicate whether or not to inhibit the office Originating No Answer Trigger. Default for this attribute is DBNO. When set to DBYES, the no answer trigger will be inhibited for this line. This attribute is secured by SFID #210.
This functionality was provided by ffcf12 in 5e11.

**Attribute:**
ffcf11
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description.

**Attribute:**
ffcf12
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description.

**Attribute:**
ffcf13
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description.

**Attribute:**
ffcf14
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description.

**Attribute:**
ffcf15
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description.

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**Attribute:**
ffcf16
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description.

**Attribute:**
ffcf17
**Fullname:**
Boolean reserved for future field feature

**Attribute Description:**
See fullname description.

**Attribute:**
ffcf18
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description.

**Attribute:**
tmalit_ihb
**Fullname:**
Automatic line insulation testing inhibit.
**Attribute Description:**
Indicates if automatic line insulation testing (ALIT)
is to be inhibited on this line.

For fiber to the Home RTs (only supported on IDUC),
ALIT is always inhibited.

**Attribute:**
tmslim_ihb
**Fullname:**
Subscriber line and instrument measurements inhibit.
**Attribute Description:**
Indicates if Subscriber line and instrument measurements (SLIM)
are to be inhibited on this line.

For fiber to the Home RTs (only supported on IDCU),
SLIM is always inhibited.

## 6. FC_LINE Population rules continued.

**Attribute:**
ported

**Fullname:**
ported indicator
**Attribute Description:**
This attribute indicates if the line associated with this tuple is individually ported by the Number Portability feature. However, if the line is in either a Multiline Hunt Group (MLHG) or a Terminal Group (TG), then the group ported indicator takes precedence over the individual ported indicator. The indicator that will be used (either the individual or the group ported indicator) will be determined by call processing.

**Attribute:**
unbundled
**Fullname:**
Network/LEC indicator, for calls to complete to an alternate LSP platform.
**Attribute Description:**
When unbundled = DBYES, (None/1)+ 7/10 digit intra-LATA local calls route using presubscribed local carrier (PLC) information. If PLC routing information is not populated, route via the LEC. When unbundled = DBNO, (None/1)+ 7/10 digit intra-LATA local calls always route via the LEC.

**Attribute:**
ctxid
**Fullname:**
Context Identifier
**Attribute Description:**
This attribute indicates if the line associated with this tuple is unbundled or resold. A line is unbundled if ctxid = CTXID_UNBNLD; it is resold if ctxid = CTXID_RESOLD.

**Attribute:**
caseindex
**Fullname:**
Case Index
**Attribute Description:**
Index into the CALEA cases

**Attribute:**
inhibit_del
**Fullname:**
Inhibit Deletion
**Attribute Description:**
inhibit deletion of line. If inhibit_del is DBYES, deletion through RC will be inhibited. See rc-oda-rules section.

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**Attribute:**
cs_on
**Fullname:**
Call Screening on
**Attribute Description:**
This attribute indicates the Call Screening status ACT/DEACT

**Defines:**
"db/DMcarr_val.h",
"db/DMparty.h",
"db/DMcarrid.h"

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# FC_NAME

## 1. Description

To store name and name privacy associated with the calling name directory number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28500 |
| expected Tuples in relation | 2100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
FC_NAME     relid = 3005  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL

    name        DMTEXT15     (array [ 15 ] of char )
 (a) privacy    DMBOOL       (enum: 1)
    locdn       DMLOCDN      (struct) <--- key, compacted
        noc         DMNOC        (ushort: 14)
        digits      DMLOCDIG     (array [ 4 ] of char )
           User Tuple Layout   FC_NAME
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                              name                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 4 |                              name                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 8 |                              name                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                   | |         |
12 |                      name                         |a|*********|
   |===============+============ locdn ============+===============|
   |   |                             |                             |
16 |***|            noc              |             digits          |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                 |                             |
20 |             digits              |*****************************|
   |===============+===============+===============+===============|
      ( 24 bytes )


    name        DMTEXT15     (array [ 15 ] of char )
 (a) privacy    DMBOOL       (enum: 1)
    locdn       DMKLOCDN     (struct) <--- key, compacted
        noc         DMNOC        (ushort: 14)
        index       DMUNS14      (ushort: 14)
         Compacted Tuple Layout    FC_NAME
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
```

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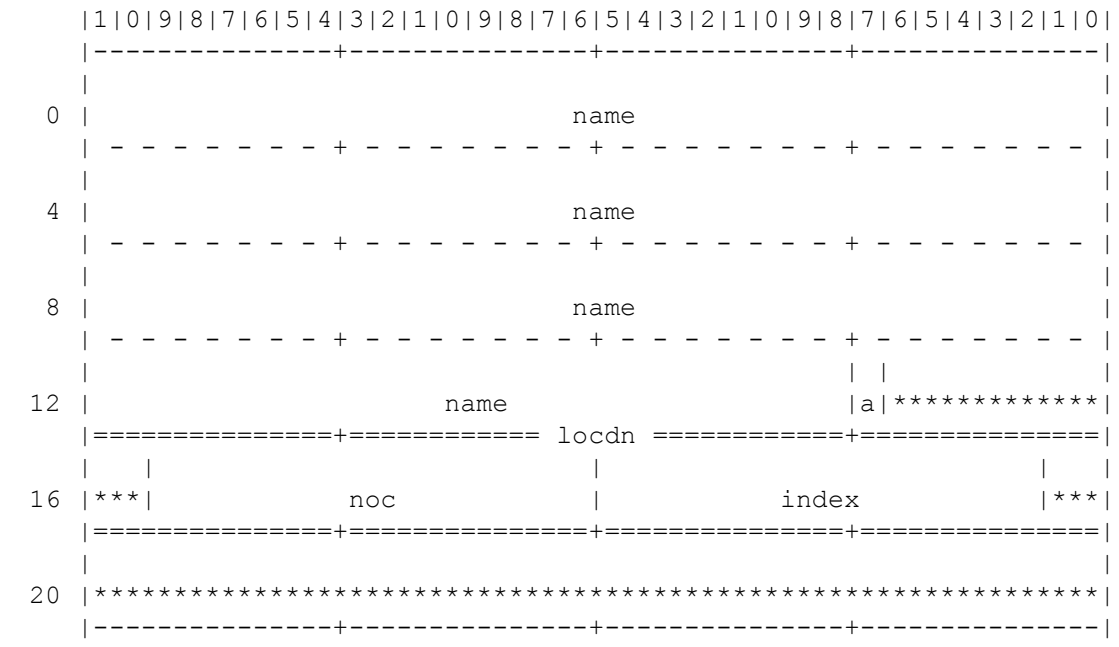
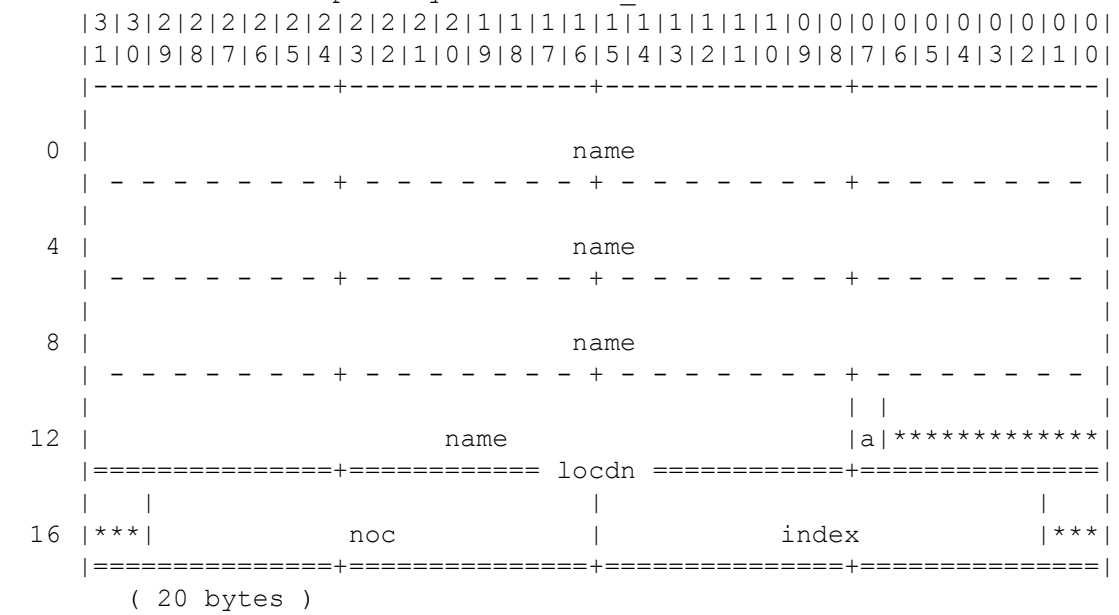



```
    name        DMTEXT15     (array [ 15 ] of char )
(a) privacy     DMBOOL       (enum: 1)
    locdn       DMKLOCDN     (struct) <--- key, compacted
        noc         DMNOC        (ushort: 14)
        index       DMUNS14      (ushort: 14)
          Stored Tuple Layout      FC_NAME
```




## 4. Population rules for RLfc_name

### Relation Description

Feature Control Calling Name source

To store name and name privacy associated with the calling name directory number.

TUPLE SEMANTICS

| | |
|---|---|
| locdn | Directory number |
| name | 15 character calling party name |
| privacy | Privacy status indicator |

**Attribute:**
locdn
**Fullname:**
Calling party directory number
**Attribute Description:**
Calling party directory number

**Attribute:**
name
**Fullname:**
calling party name
**Attribute Description:**
0-15 character calling party name

**Attribute:**
privacy
**Fullname:**
Privacy status indicator
**Attribute Description:**
Privacy status either private or public depending or calling party's wish

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# FC_NXXZN

## 1. Description

Time zone for this NPA-NXX.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1600 |
| expected number of tuples | 110 |
| density | 61 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
FC_NXXZN    relid = 379   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     npa         DMUNS10      (ushort: 10)     <--- key
 (a) time_zone   DMTMZONE     (enum: 2)
     nxx         DMUNS10      (ushort: 10)     <--- key
         User, Compacted and Stored Tuple Layout   FC_NXXZN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |   |       |                   |           |
  0 |        npa        | a |*******|        nxx        |***********|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLfc_nxxzn

**Relation Description** Feature control NXX time zone.
Time zone for this NPA-NXX.

**Attribute: npa**

**Fullname:** NPA

**Attribute Description** Each NPA of this office that spans more than one time zone.

**Attribute: nxx**

**Fullname:** NXX

**Attribute Description** Each NXX associated with a NPA that spans more than one time zone.

**Attribute: time_zone**

**Fullname:** Time Zone

**Attribute Description** Time zone of the NPA-NXX. The valid values are:

```
OATZPRI_TIME, (same time as OSPS system time, primary time zone.)
OATZ1_ALT,  (time difference for alternate 1 time zone specified
             in Gla1zone.)
OATZ2_ALT,  (time difference for alternate 2 time zone specified
             in Gla2zone.)
```

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# FC_OPERTRK

## 1. Description

Feature data for operator trunks.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 30 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
FC_OPERTRK  relid = 29    DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     port        DMGPORT      (struct)     <--- key
         member      DMGPORT       (ushort)
         module      DMMODULE     (ushort: 8)
 (a) tsps_type   DMTSPSTRAF   (enum: 3)
 (b) intersig    DMINTERSIG   (enum: 2)
 (c) outpuls     DMBOOL       (enum: 1)
 (d) ret_aud     DMBOOL       (enum: 1)
 (e) free        DMBOOL       (enum: 1)
 (f) initret     DMBOOL       (enum: 1)
 (g) finalret    DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout FC_SPERTRK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============  port ============+===============|
    |                                 |                |               |
  0 |              member             |****************|     module    |
    |===============+===============+================+===============|
    |      |    | | | | | |                                           |
  4 |  a   | b |c|d|e|f|g|*******************************************|
    |---------------+---------------+----------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLfc_opertrk

**Relation Description** Feature Data for Operator Trunks
This relation contains the information associated with operator trunks.

Special Rule:
If rt_trkg.type is RAF then ret_aud must be blank or N, intersig must be blank, free must be blank or N, initret must be blank or N, finalret must be blank or N, tsps_type must be blank.

**Attribute: port**

**Fullname:** Logical Port

**Attribute Description** This attribute defines the trunk member port and switching module.

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**Attribute: port.member**

**Fullname:** Operator port trunk group member identifier

**Attribute Description** Member is the port name of the trunk.

**Attribute: port.module**

**Fullname:** Operator port switching module identifier

**Attribute Description** This attribute refers to the SM Module in which this trunk is located.

**Attribute: outpuls**

**Fullname:** Outpulsing

**Attribute Description** If Outpulsing is required then DBYES should be used, otherwise if Outpulsing is NOT required then DBNO should be used.

***NOTE:*** Following servclass are assigned this value.

```
If servclass is TSPS    then outpuls = DBYES or DBNO
If servclass is RECCMPL then outpuls = DBNO
If servclass is AIS     then outpuls = DBYES
If servclass is SRVTRNK then outpuls = DBNO
If servclass is CAMA    then outpuls = DBYES
```

**Attribute: ret_aud**

**Fullname:** Return Audible Ringing

**Attribute Description** If Audible Ringing should be returned to the operator trunk then DBYES should be entered, otherwise if Audible Ringing is not to be returned to the operator trunk DBNO should be entered.

***NOTE:*** Following servclass are assigned this value.

```
If servclass is TSPS    then ret_aud = DBYES or DBNO
If servclass is RECCMPL then ret_aud = DBYES
If servclass is AIS     then ret_aud = DBYES or DBNO
If servclass is SRVTRNK then ret_aud = DBNO (DBYES if
          service trunk terminates at a switchboard).
If servclass is CAMA    then ret_aud = (no rule found)
```

**Attribute: intersig**

**Fullname:** Interoffice Signal Type for an Operator Trunk

**Attribute Description** There are four valid signal types:

FCNO_SIG - - the trunk does not signal In this case the control is given to operator trunk termination talk.

FCWINKONLY - - wink only signaling provides ringback signal on non-Coin Operator Trunks.

FCINBAND - - Regular Inband Signaling provides coin collect, coin return, and ringback signals from an operator system to a local switching system.

FCEXINBND - - Expanded Inband Signaling provides coin collect,coin return, ringback, and operator attached and operator released signals from an operator system to a local switching system.

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***NOTE:*** Following servclass are assigned this value.

```
If servclass is TSPS    then intersig must_be_in
     {FCNO_SIG,FCINBAND,FCEXINBND,FCWINKONLY}
If servclass is RECCMPL then intersig must_be_in
     {FCINBAND,FCEXINBND,FCWINKONLY}
If servclass is AIS     then intersig = FCNO_SIG
If servclass is SRVTRNK then intersig = FCNO_SIG
If servclass is CAMA    then intersig = FCNO_SIG
```

**Attribute: tsps_type**

**Fullname:** Traffic Service Position System Type for an Operator Trunk

**Attribute Description** This attribute indicates TSPS traffic types. There are four valid traffic types:

FCTS_SUPERCOM - - Combines all Call Types (0+,1+, 0-) in a single Trunk Group. For both Coin and Non-Coin Traffic.

FCTS_DACHARG - - DA (Directory Assistance)charge, for ANI (Automatic number identification information) is used to identify the called number and the billing number of calling party. Billing number is the identification code which identifies the service class of the calling party to the TSPS.

FCTS_COMBINED - - Combines all Call Types (0+,1+, 0-) but has separate Trunk Groups for Coin and Non-Coin Traffic.

```
0+, 0-  - Coin only to TSPS.
0+, 0-  - Non-Coin only to TSPS.
```

FCTS_NULL - - Null case.

***NOTE:*** Following servclass are assigned this value.

```
If servclass is TSPS  then tsps_type is_in
{FCTS_NULL,FCTS_SUPERCOM,FCTS_COMBINED,FCTS_DACHARG}
```

**Attribute: free**

**Fullname:** Free Termination for an Operator Trunk

**Attribute Description** Free termination are calls that are free over this trunk. An entry is permitted only for Outgoing Trunk Groups which have coin origination and terminates at an operator.

```
DBYES in this field, for coin originated traffic, will
      initiate coin return.
0+,0-, and 911 origination should be free termination to TSPS.

DBNO  in this field is used for shared trunk groups where traffic
      is both coin and non-coin, and a billing record is desired
      for the non-coin traffic, then this entry should be DBNO.
      Coins in this case are returned by defining a code index for
      free coin calls on the RAR form (5301 record) RC/V 10.10.
```

***NOTE:*** Following servclass are assigned this value.

```
      If servclass is_in {TSPS,RECCMPL,AIS,SRVTRNK or CAMA} then t
he
      attribute free requires a value of DBYES or DBNO.
```

**Attribute: initret**

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**Fullname:** Initial Coin Return

**Attribute Description** Coin return or retention should be specified for trunk group. It is used to determine if the initial deposit is to be returned or retained on (such as, certain operator system calls). If set to DBYES then deposit is return. If set to DBNO then deposit is retained.

***NOTE:*** Following servclass are assigned this value.

```
If servclass is TSPS    then initret = DBYES or DBNO
If servclass is RECCMPL then initret = DBYES or DBNO
If servclass is AIS     then initret = DBNO (or enter blank)
If servclass is SRVTRNK then initret = DBNO (or enter blank)
If servclass is CAMA    then initret = DBNO (or enter blank)
```

**Attribute: finalret**

**Fullname:** Final Coin Return

**Attribute Description** Are coin calls over this trunk allowed final coin return. If Final Coins are to be returned enter a DBYES; Otherwise enter DBNO.

***NOTE:*** Following servclass are assigned this value.

```
If servclass is TSPS    then finalret = DBYES or DBNO
If servclass is RECCMPL then finalret = DBYES or DBNO
If servclass is AIS     then finalret = DBNO (or enter blank
)
If servclass is SRVTRNK then finalret = DBNO (or enter blank
)
If servclass is CAMA    then finalret = DBNO (or enter blank
)
```

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# FC_OPRTK

## 1. Description

This relation specifies details about incoming trunk groups.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4095 |
| expected tuples in relation | 245 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
FC_OPRTK    relid = 342   DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL


     tgroup       DMGRUPNM     (ushort: 13)      <--- key, not stored
     billinggrp   DMUSHORT     (ushort)
     shorta_oprtk  DMUSHORT     (ushort)
     shortb_oprtk  DMUSHORT     (ushort)
     intra_id     DMBCARID     (ushort: 14)
 (a) carr_typ     DMTYP_CARR   (enum: 2)
     inter_id     DMBCARID     (ushort: 14)
 (b) cn_sig       DMCN_SIG     (enum: 2)
     inc_id       DMBCARID     (ushort: 14)
 (c) cn_statyp    DMCN_STTYP   (enum: 2)
     pic4_id      DMBCARID     (ushort: 14)
 (d) acqs_scn     DMTRAFID     (enum: 2)
     scrn_idx     DMSCRNIDX    (ushort: 12)
     strpuls      DMSTRPULS    (enum: 4)
     orig_npa     DMUNS10      (ushort: 10)
     ospsff       DMUNS6       (ushort: 6)
     char_oprtk   DMUCHAR      (uchar)
     accessid     DMUNS8       (ushort: 8)
     anigrpid     DMUNS8       (ushort: 8)
     annc_1       DMUNS8       (ushort: 8)
     annc_2       DMUNS8       (ushort: 8)
     ospsff1      DMUNS6       (ushort: 6)
 (e) ols_scn      DMTRAFID     (enum: 2)
 (f) sasi_value   DMUNS4       (ushort: 4)
 (g) traf_type    DMTRAFTYP4   (enum: 3)
 (h) lnp_query    DMUNS2       (ushort: 2)
 (i) olns_act     DMUNS2       (ushort: 2)
 (j) cn_ind       DMBOOL       (enum: 1)
 (k) pp_ind       DMBOOL       (enum: 1)
 (l) acts_ind     DMBOOL       (enum: 1)
 (m) ani_ind      DMBOOL       (enum: 1)
 (n) prot_nxx     DMBOOL       (enum: 1)
 (o) mfj_sig      DMBOOL       (enum: 1)
 (p) cs_enf       DMBOOL       (enum: 1)
 (q) exc_area     DMBOOL       (enum: 1)
```

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```
(r) mech         DMBOOL       (enum: 1)
(s) ans_sup      DMBOOL       (enum: 1)
(t) cc_on        DMBOOL       (enum: 1)
(u) taoprsys     DMBOOL       (enum: 1)
(v) lstraf       DMBOOL       (enum: 1)
(w) lscar_val    DMBOOL       (enum: 1)
(x) aatossdn     DMBOOL       (enum: 1)
(y) local_ofc    DMBOOL       (enum: 1)
(z) ap_automation  DMBOOL       (enum: 1)
(A) wl_ind       DMBOOL       (enum: 1)
(B) wl_sa        DMBOOL       (enum: 1)
(C) sel_ols      DMBOOL       (enum: 1)
(D) alw7dig      DMBOOL       (enum: 1)
(E) alwintrada   DMBOOL       (enum: 1)
(F) pp_overtime   DMBOOL       (enum: 1)
(G) da_aggr_trk   DMBOOL       (enum: 1)
(H) carrierccs   DMBOOL       (enum: 1)
(I) allowails    DMBOOL       (enum: 1)
(J) wireline     DMBOOL       (enum: 1)
(K) carrierbrand  DMBOOL       (enum: 1)
(L) wlinedcis    DMBOOL       (enum: 1)
(M) wlessdcis    DMBOOL       (enum: 1)
(N) ls_reconnect  DMBOOL       (enum: 1)
(O) adas_trunk   DMBOOL       (enum: 1)
(P) honor_olns   DMBOOL       (enum: 1)
(Q) olns_ama     DMBOOL       (enum: 1)
(R) trk_pro_nxx   DMBOOL       (enum: 1)
(S) interlcc_on   DMBOOL       (enum: 1)
(T) oaff1        DMBOOL       (enum: 1)
(U) lsspare      DMBOOL       (enum: 1)
(V) ospsff2      DMBOOL       (enum: 1)
(W) boola_oprtk   DMBOOL       (enum: 1)
(X) boolb_oprtk   DMBOOL       (enum: 1)
(Y) boolc_oprtk   DMBOOL       (enum: 1)
(Z) boold_oprtk   DMBOOL       (enum: 1)
    lnp_lrn      DMDN         (struct)
        digcnt       DMDIGCNT     (uchar: 4)
        dn           DMDIGSTRING  (array [ 15 ] of char )
    ospsff3      DMBCD8       (ulong)
    long_oprtk   DMHEX32      (ulong)
        User and Compacted Tuple Layout   FC_OPRTK
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |           tgroup              |*******************************|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 4 |            billinggrp           |           shorta_oprtk        |
   |---------------+---------------+---------------+---------------|
   |                                 |                             |   |
 8 |           shortb_oprtk          |           intra_id          | a |
   |---------------+---------------+---------------+---------------|
   |                             |   |                             |   |
```

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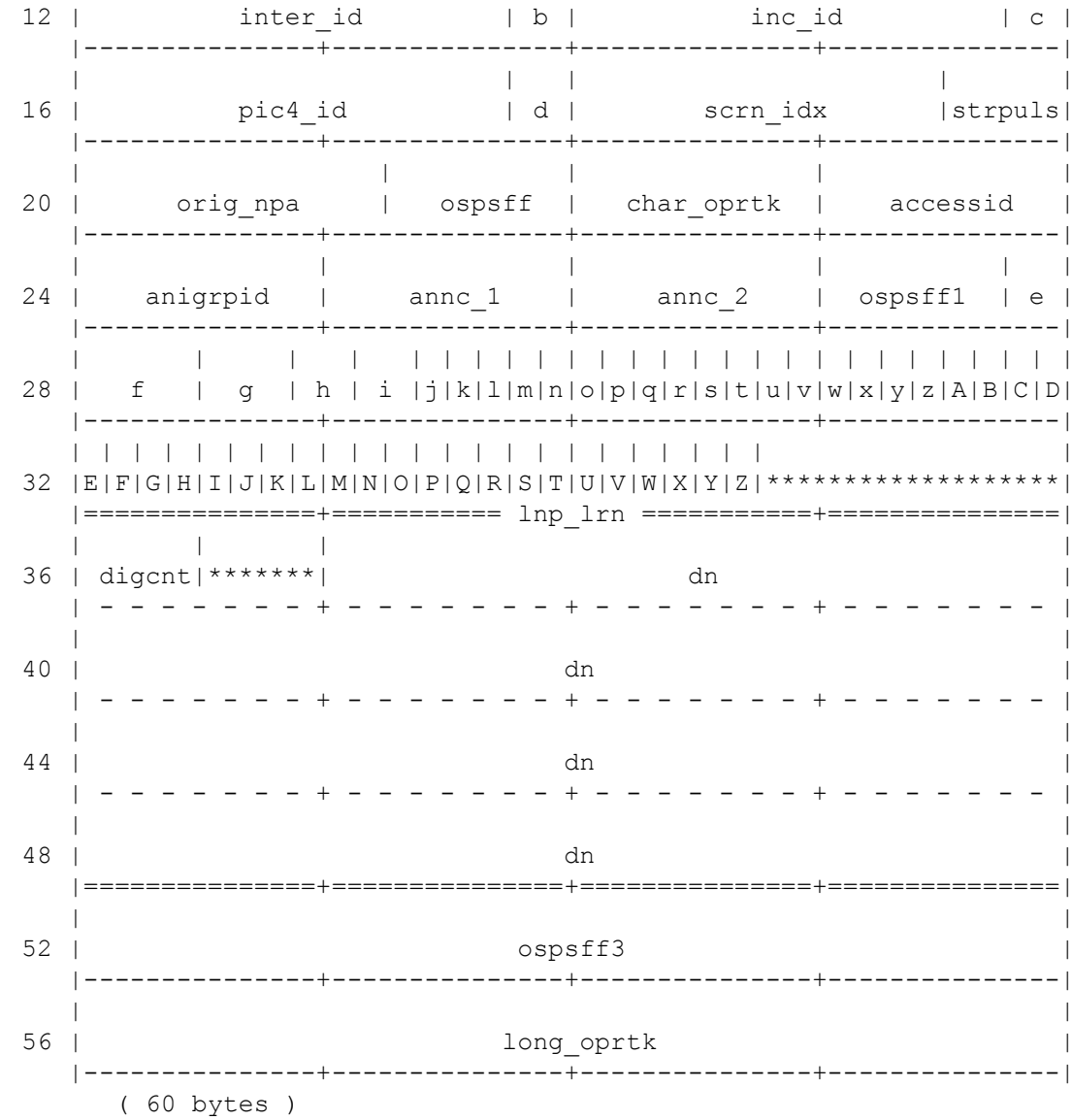


( 60 bytes )

```
    billinggrp  DMUSHORT     (ushort)
    shorta_oprtk  DMUSHORT     (ushort)
    shortb_oprtk  DMUSHORT     (ushort)
    intra_id    DMBCARID     (ushort: 14)
(a) carr_typ    DMTYP_CARR   (enum: 2)
    inter_id    DMBCARID     (ushort: 14)
(b) cn_sig      DMCN_SIG     (enum: 2)
    inc_id      DMBCARID     (ushort: 14)
(c) cn_statyp   DMCN_STTYP   (enum: 2)
    pic4_id     DMBCARID     (ushort: 14)
(d) acqs_scn    DMTRAFID     (enum: 2)
    scrn_idx    DMSCRNIDX    (ushort: 12)
    strpuls     DMSTRPULS    (enum: 4)
    orig_npa    DMUNS10      (ushort: 10)
    ospsff      DMUNS6       (ushort: 6)
    char_oprtk  DMUCHAR      (uchar)
```

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```
    accessid     DMUNS8       (ushort: 8)
    anigrpid     DMUNS8       (ushort: 8)
    annc_1       DMUNS8       (ushort: 8)
    annc_2       DMUNS8       (ushort: 8)
    ospsff1      DMUNS6       (ushort: 6)
(e) ols_scn      DMTRAFID     (enum: 2)
(f) sasi_value   DMUNS4       (ushort: 4)
(g) traf_type    DMTRAFTYP4   (enum: 3)
(h) lnp_query    DMUNS2       (ushort: 2)
(i) olns_act     DMUNS2       (ushort: 2)
(j) cn_ind       DMBOOL       (enum: 1)
(k) pp_ind       DMBOOL       (enum: 1)
(l) acts_ind     DMBOOL       (enum: 1)
(m) ani_ind      DMBOOL       (enum: 1)
(n) prot_nxx     DMBOOL       (enum: 1)
(o) mfj_sig      DMBOOL       (enum: 1)
(p) cs_enf       DMBOOL       (enum: 1)
(q) exc_area     DMBOOL       (enum: 1)
(r) mech         DMBOOL       (enum: 1)
(s) ans_sup      DMBOOL       (enum: 1)
(t) cc_on        DMBOOL       (enum: 1)
(u) taoprsys     DMBOOL       (enum: 1)
(v) lstraf       DMBOOL       (enum: 1)
(w) lscar_val    DMBOOL       (enum: 1)
(x) aatossdn     DMBOOL       (enum: 1)
(y) local_ofc    DMBOOL       (enum: 1)
(z) ap_automation  DMBOOL        (enum: 1)
(A) wl_ind       DMBOOL       (enum: 1)
(B) wl_sa        DMBOOL       (enum: 1)
(C) sel_ols      DMBOOL       (enum: 1)
(D) alw7dig      DMBOOL       (enum: 1)
(E) alwintrada   DMBOOL       (enum: 1)
(F) pp_overtime   DMBOOL       (enum: 1)
(G) da_aggr_trk   DMBOOL       (enum: 1)
(H) carrierccs   DMBOOL       (enum: 1)
(I) allowails    DMBOOL       (enum: 1)
(J) wireline     DMBOOL       (enum: 1)
(K) carrierbrand   DMBOOL       (enum: 1)
(L) wlinedcis    DMBOOL       (enum: 1)
(M) wlessdcis    DMBOOL       (enum: 1)
(N) ls_reconnect   DMBOOL       (enum: 1)
(O) adas_trunk   DMBOOL       (enum: 1)
(P) honor_olns   DMBOOL       (enum: 1)
(Q) olns_ama     DMBOOL       (enum: 1)
(R) trk_pro_nxx   DMBOOL       (enum: 1)
(S) interlcc_on   DMBOOL       (enum: 1)
(T) oaff1        DMBOOL       (enum: 1)
(U) lsspare      DMBOOL       (enum: 1)
(V) ospsff2      DMBOOL       (enum: 1)
(W) boola_oprtk   DMBOOL       (enum: 1)
(X) boolb_oprtk   DMBOOL       (enum: 1)
(Y) boolc_oprtk   DMBOOL       (enum: 1)
(Z) boold_oprtk   DMBOOL       (enum: 1)
    lnp_lrn      DMDN         (struct)
```

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```
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
     ospsff3     DMBCD8       (ulong)
     long_oprtk  DMHEX32      (ulong)
           Stored Tuple Layout     FC_OPRTK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |           billinggrp          |          shorta_oprtk         |
    |---------------+---------------+---------------+---------------|
    |                               |                           |   |
  4 |          shortb_oprtk         |          intra_id         | a |
    |---------------+---------------+---------------+---------------|
    |                           |   |                           |   |
  8 |          inter_id         | b |           inc_id          | c |
    |---------------+---------------+---------------+---------------|
    |                           |   |                       |       |
 12 |          pic4_id          | d |        scrn_idx       |strpuls|
    |---------------+---------------+---------------+---------------|
    |                   |           |               |               |
 16 |      orig_npa     |   ospsff  |   char_oprtk  |    accessid   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |           |   |
 20 |    anigrpid   |     annc_1    |     annc_2    |  ospsff1  | e |
    |---------------+---------------+---------------+---------------|
    |       |     |   |   | | | | | | | | | | | | | | | | | | | | |
 24 |   f   |  g  | h | i |j|k|l|m|n|o|p|q|r|s|t|u|v|w|x|y|z|A|B|C|D|
    |---------------+---------------+---------------+---------------|
    | | | | | | | | | | | | | | | | | | | | | |                   |
 28 |E|F|G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z|*******************|
    |===============+=========== lnp_lrn ===========+===============|
    |       |       |                                               |
 32 | digcnt|*******|                      dn                       |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 36 |                               dn                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 40 |                               dn                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 44 |                               dn                              |
    |===============+===============+===============+===============|
    |                                                               |
 48 |                           ospsff3                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 52 |                          long_oprtk                           |
    |---------------+---------------+---------------+---------------|
      ( 56 bytes )
```

## 4. Population rules for RLfc_oprtk

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**Relation Description**

Operator trunks

This relation contains information related to operator trunks for the Operator Services Position System (OSPS) feature.

**Attribute:**

tgroup

**Fullname:**

Trunk group number

**Attribute Description:**

For every entry here, there must be an entry in RLrctgrprk which has a trunk class equal to FC_ISPOPR, FC_AISOA, FC_PF, FC_OPR_DIOR, FC_LTOLL_CONN, FC_TTOLL_CONN, FC_PRI_INTOLL, and FC_SEC_INTOLL. These are incoming and outgoing trunk groups. If the trunk class is not one of the previous, the trunk group must be used for toll and assistance (T&A) listing services (LSs).

**Attribute:**

traf_type

**Fullname:**

Traffic type

**Attribute Description:**

There are seven valid traffic types:

OA4D0_DED - Dedicated dial zero traffic.
OA4D0P_DED - Dedicated dial zero plus traffic. This value cannot be populated for dial pulse (DP) trunk groups. Information to determine if a trunk group is DP is obtained from the attribute in_sigtype located in the RLRT_TRKG relation. See `CHECK Section` for population rule language (PRL) implementation.
OA4D0M_DED - Dedicated dial zero minus traffic. This value cannot be populated for DP trunk groups. Information to determine if a trunk group is DP is obtained from the attribute in_sigtype located in the RLRT_TRKG relation. See `CHECK Section` for PRL implementation.
OA4D1P_DED - Dedicated dial one plus traffic.
OA4COMBIND - Combined (0-, 0+, 1+) traffic.
OA4SUP_COMB - Supercombined (cn/ncn 0-, 0+, 1+) traffic.
OA4AIS - Incoming automatic intercept system (AIS).

**Attribute:**

cn_ind

**Fullname:**

Coin indicator

**Attribute Description:**

Indicates if this trunk group carries coin traffic.

DBNO - Carries noncoin traffic (DEFAULT).

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DBYES - Carries coin traffic.
For traf_type of OA4SUP_COMB, this attribute is set to DBYES.

For listing services trunk groups (lstraf is equal to DBYES) with a service class other than FC_ISPOPR, cn_ind will indicate whether or not coin traffic, identified by originating line screening (OLS), is allowed on this trunk group. That is, if cn_ind is set to DBYES and OLS identifies the call as coin, it will be treated as coin. If cn_ind is set to DBYES and OLS does not identify the call as coin, it will be treated as non-coin. If cn_ind is set to DBNO and OLS identifies the call as coin, an error condition will be reported.

**Attribute:**
pp_ind
**Fullname:**
Postpay coin indicator
**Attribute Description:**
Indicates if this trunk group carries postpay coin traffic. Postpay coin traffic can be carried over noncoin trunk groups.

DBNO - No postpay coin traffic (DEFAULT).
DBYES - Trunk group carries postpay coin traffic.

**Attribute:**
acts_ind
**Fullname:**
Automated coin toll service indicator
**Attribute Description:**
Indicates if this trunk group carries coin traffic from phones that have been modified for automated coin toll service (ACTS)

DBNO - Coin traffic not automated.
DBYES - Coin traffic automated.

**Attribute:**
ani_ind
**Fullname:**
Automatic number identification (ANI) indicator
**Attribute Description:**
Indicates if ANI is expected on this trunk group.

DBNO - No ANI expected.
DBYES - ANI expected on the trunk group.

For intercept trunks and non intermediate switching point (ISP) listing services trunks, this attribute is 'not applicable' and cannot be entered on the recent change (RC)/office data administration (ODA) form.

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**Attribute:**
prot_nxx
**Fullname:**
Protected office code (NXX) indicator
**Attribute Description:**
Indicates if this trunk group has any protected NXXs.

DBNO - No protected NXXs on trunk group.
DBYES - Protected NXXs on trunk group.

**Attribute:**
cn_sig
**Fullname:**
Coin signal
**Attribute Description:**
Indicates one of four types of coin signaling. If the cn_ind is set to DBYES, then cn_sig must be either OASMW_SIG, OASIN_BAND or OASEX_IB. If the cn_ind is set to DBNO, then cn_sig must be either OASNOCN_SIG, OASMW_SIG or OASEX_IB.

OASNOCN_SIG - No coin signaling - (DEFAULT).
OASMW_SIG - Multiwink coin signaling.
OASIN_BAND - Inband coin signaling.
OASEX_IB - Expanded inband coin signaling.

**Attribute:**
cn_statyp
**Fullname:**
Coin station type
**Attribute Description:**
Indicates one of three types of coin station. If 'cn_ind' is set to DBYES, then 'cn_statyp' must be either OADTF, OACF, OACF_DTF.

OACN_NULL - Null value - (DEFAULT).
OADTF - Dial tone first protocol.
OACF - Coin first protocol.
OACF_DTF - Both coin first and dial tone first protocol.

Attribute will be set to OACN_NULL if 'cn_ind' is set to DBNO and 'pp_ind' is set to DBNO. If 'pp_ind' is set to DBYES and 'cn_ind' is set to DBNO, then 'cn_statyp' can be set to OACN_NULL, OADTF or OACF_DTF.

**Attribute:**
mfj_sig
**Fullname:**
Modification of final judgement (MFJ) signal
**Attribute Description:**
Indicates what type if incoming signaling is sent from originating

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office.

DBNO - Standard operator signaling is used (DEFAULT).
DBYES - MFJ operator signaling is used. Indicates call is from an equal access end office (EAEO).

**Attribute:**
cs_enf
**Fullname:**
Carrier selection enforced
**Attribute Description:**
Indicates if carrier selection should be enforced for this trunk group.

DBNO - Carrier selection is not enforced.
DBYES - Carrier selection is enforced.

For all intercept and listing services trunks, this attribute is 'not applicable' and must not be entered on the RC/ODA form.

**Attribute:**
acqs_scn
**Fullname:**
Automatic charge quotation system (ACQS) screen
**Attribute Description:**
Indicates how to identify ACQS traffic on the trunk group. If 'acqs_scrn' is set to OASCDED or OASCAIFO, then the 'ani_ind' must set the DBYES. The acqs_scn attribute can have one of the four values:

OATRNONE - No ACQS traffic carried over trunks in this trunk group (DEFAULT).
OATRDED - Trunk group is dedicated to ACQS traffic. If OATRDED is populated, the 'ani_ind' must be set to DBYES.
OATRAIFO - ACQS traffic is identified by ANI information digit(s) (0)6. If OATRAIFO is populated, the 'ani_ind' must be set to DBYES.
OATRASRCH - ACQS traffic identified by ANI search. If OATRASRCH is populated, the 'ani_ind' must be set to DBYES.

**Attribute:**
ols_scn
**Fullname:**
Originating line screening (OLS) screened traffic indicator
**Attribute Description:**
Indicates how to identify screened traffic on trunks in this trunk group. OLS states for originating line screening and can have one of four values:

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```
        OATRNONE      - No screened traffic carried by trunks in this
                        trunk group.
        OATRDED       - Trunk group dedicated to screened traffic.
        OATRAIFO      - Screened traffic identified by ANI information
                        digits(s) (0)7.
        OATRASRCH     - Screened traffic identified by ANI search.
```

**Attribute:**
orig_npa
**Fullname:**
Numbering plan area (NPA) of originating office
**Attribute Description:**
NPA of originating office. For intercept (traf_type equals OA4AIS), this is the NPA in which the intercepted number resides.

**Attribute:**
carr_typ
**Fullname:**
Carrier type
**Attribute Description:**
Specifies whether the trunks in this trunk group carry inter-LATA or intra-LATA traffic. If the trunk group signaling is dial pulse, then this value must be OATCBOTH. Signaling type can be determined from the FC_TRUNK relation under the attribute in_sigtype. Will take on one of three values:

```
        OATCINTRA     - Trunk group carries intra-LATA traffic.
        OATCINTER     - Trunk group carries inter-LATA traffic.
        OATCBOTH      - Trunk group carries both inter-LATA and intra-LATA
                        traffic.
```

**Attribute:**
scrn_idx
**Fullname:**
Screening index
**Attribute Description:**
Screening index for trunk group. If the trunk class is FIOPR or DIOR, the screening index must be entered and there must be an entry in the RLrt_scrning relation for every nonzero screening index. If the trunk class LATA or TTOLLCON, the screening index can be entered. In case of LATA trunk class with the nonzero screening index, there must be an entry in the RLrt_scrning. For other trunk classes the screening index is 'not applicable'.
The screening index ranges in value from 0 to 4095.

Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute:**

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intra_id

**Fullname:**

Intra-LATA toll carrier ID

**Attribute Description:**

Primary intra-LATA toll carrier (PIC2) assigned to this trunk group. The value of #LECBCARID is assigned if the carrier is not an inter-LATA carrier (IC) but is a local exchange carrier (LEC). It is mapped to the three letters 'LEC' on the RC/ODA view. This field is required even if the 'carr_typ' field is set to OATCINTER. It may be used when certain failure conditions occur when handling inter-LATA traffic. The value of #NULL_BCARID is assigned if the carrier has a non-existing carrier ID. This can be used for diagnosing the incorrect trunking condition. The value of #NULL_BCARID is not displayed on the RC/ODA view. It is mapped to unknown. When RLfc_oprtk.traf_type is OA4AIS, then RLfc_oprtk.carr_typ will be OATCBOTH. In this case, the actual carrier ID is not stored in this relation; instead it is #NULL_BCARID and the actual carrier ID is provided by the external information system (EIS) during call processing.

**Attribute:**

inter_id

**Fullname:**

Inter-LATA carrier ID

**Attribute Description:**

Carrier ID of carrier assigned to the inter-LATA traffic on this trunk group. The value of #LECBCARID is assigned if the carrier is not an IC but is an LEC. It is mapped to the three letters 'LEC' on the RC/ODA view. The value #NULL_BCARID indicates that no carrier ID is assigned and is not displayed on the RC/ODA view. It is mapped to unknown. If the carr_typ is OATCINTER or OATCBOTH, then there must be a valid carrier ID populated. When RLfc_oprtk.traf_type is OA4AIS, then RLfc_oprtk.carr_typ will be OATCBOTH. In this case, the actual carrier ID is provided by the EIS during call processing.

**Attribute:**

inc_id

**Fullname:**

International carrier ID

**Attribute Description:**

Carrier ID of carrier assigned to handle international traffic on this trunk group. The value of #LECBCARID is assigned if the carrier is an LEC. If no 'inc_id' carrier is assigned to this trunk group, then the value #NULL_BCARID should be populated. See 'inter_id' for a more detailed explanation.

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**Attribute:**
pic4_id
**Fullname:**
Primary intra-LATA local carrier ID
**Attribute Description:**
Carrier ID of carrier assigned to inter-LATA local traffic for this trunk group. The value of #LECBCARID is assigned if the carrier is not an IC but is a LEC. It is mapped to the three letters 'LEC' on the RC/ODA view. The value of #NULL_BCARID is assigned if the carrier has a non-existing carrier ID. This can be used for diagnosing the incorrect trunking condition. The value of #NULL_BCARID is not displayed on the RC/ODA view. It is mapped to unknown. When RLfc_oprtk.traf_type is OA4AIS, the RLfc_oprtk.carr_typ will be OATCBOTH. In this case, the actual carrier ID is not stored in this relation; instead it is #NULL_BCARID and the actual carrier ID is provided by the EIS during call processing.

**Attribute:**
strpuls
**Fullname:**
Start pulse
**Attribute Description:**
Indicates the start pulse to be used when call type cannot be determined due to transmission failure. Under these conditions, a noncoin start pulse will be used. However, start pulses are different depending on the incoming trunk characteristics. Also, the Telephone Company Administrator (TCA) can choose to turn back the call, that is idle the trunk. Therefore, the legal value that can be populated is as follows:

FCTURNBACK - legal value to be populated on any trunk group indicating the call will be turned back (DEFAULT).

Supercombined trunk group:
FCST2P - prefix digit 1
FCST3P - prefix digit 0

Combined trunk group:
FCST - prefix digit 1
FCSTP - prefix digit 0

Dedicated trunk group:
FCST, FCSTP, FCST2P, FCST3P can be used since trunk group data already identifies call type.

Note: Information to determine if a trunk group is supercombined combined or dedicated can be found in the RLfc_oprtk relation by attribute traf_type. The attribute values are as follows:

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```
OA4SUP_COMB => Supercombined
OA4COMBIND  => Combined
OA4D0_DED   => Dedicated
OA4D0P_DED  =>
OA4D0M_DED  =>
0A4D1P_DED  =>
```

**Attribute:**
exc_area
**Fullname:**
Exception areas
**Attribute Description:**
This attribute will be used by the ISP capability for exception area determination on trunks with calls originating from non-conforming end offices (NCEOs).

1. DBYES means exception areas exist in the local access and transport area (LATA) or one of the LATAs which this incoming FC_ISPOPR trunk group services.

2. DBNO means exception areas are not present in the LATA/LATAs which this trunk group serves.

3. Default to DBNO.

4. If the exc_area attribute is set to DBYES, then carr_typ attribute of this tuple must be BOTH. This means the trunk group may handle inter-LATA traffic which may be within an exception area.

5. Glexdet = DBYES
   (exception area determination is turned on in this office).

6. If 'exc_areas' is set to DBYES then the 'mfj_sig' must be DBNO.

7. For intercept, PF and non ISP listing services trunks, this attribute is 'not applicable' and cannot be entered on the RC/ODA form.

**Attribute:**
mech
**Fullname:**
More efficient call handling (MECH) on/off flag
**Attribute Description:**
Indicates if MECH on/off for incoming trunk.

**Attribute:**
ans_sup

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**Fullname:**
Answer supervision
**Attribute Description:**
This indicates if the incoming trunk group can return answer supervision to the network. For PF trunks, this determines if answer supervision should be returned for true answer to a forward party. This attribute applies only to intercept and non listing services PF trunks. For all other trunks, it is 'not applicable'.

**Attribute:**
cc_on
**Fullname:**
Call completion on
**Attribute Description:**
Indicates whether LS call completion is allowed for this trunk group.

**Attribute:**
taoprsys
**Fullname:**
From toll and assistance (T&A) operator system
**Attribute Description:**
Indicates whether T&A operator system previously handled this LS traffic. This indicates if a T&A operator system is bringing the calls into this system.

**Attribute:**
lstraf
**Fullname:**
Listing services traffic
**Attribute Description:**
Indicates whether there is T&A listing service traffic on this trunk group.

**Attribute:**
lscar_val
**Fullname:**
Listing services carrier valid
**Attribute Description:**
Indicates whether inter-LATA carrier may be used for inter-LATA listing services call completion calls? This indicates whether the carrier specified in the existing field, inter_id, can be used (is valid) as the carrier for inter-LATA LS call completion calls.

**Attribute:**
aatossdn

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**Fullname:**
Alternate access to operator services (AATOS) and software-defined network (SDN)/network remote access (NRA) traffic flag
**Attribute Description:**
Indicates this trunk carries AATOS and SDN/NRA traffic only.

DBYES - Traffic is AATOS and SDN/NRA only.
DBNO - Traffic is not AATOS and SDN/NRA.

**Attribute:**
local_ofc
**Fullname:**
Local office
**Attribute Description:**
This field indicates whether the office at the far end of the trunk is a local office.

DBYES - Trunk comes directly from a local office.
DBNO - Trunk does not come directly from a local office.

**Attribute:**
ap_automation
**Fullname:**
Automated position (AP) automation
**Attribute Description:**
Indicates whether AP automation is active on this trunk group. This attribute is used to mark an incoming OSPS trunk group which is to receive AP automation.

**Attribute:**
wl_ind
**Fullname:**
Wireless traffic indicator
**Attribute Description:**
This attribute is being used by the OSPS special feature (SF) 'AMA Recording from Wireless Service Providers'. The attribute is used to indicate whether the trunk group is dedicated to wireless traffic only.

DBYES - Indicates trunk group is dedicated to wireless traffic only.
DBNO - Indicates trunk group is not dedicated to wireless traffic only.

**Attribute:**
wl_sa
**Fullname:**
Wireless Special Application
**Attribute Description:**
This attribute is being used by the OSPS SF 'FGD Incoming Signaling for Special Application.'

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**Attribute:**
sel_ols
**Fullname:**
Selective OLS
**Attribute Description:**
This attribute is being used by this feature to specify whether SELECTIVE OLS is active.

**Attribute:**
alw7dig
**Fullname:**
Allow 7 digits
**Attribute Description:**
This attribute indicates whether seven-digit dialing is allowed on automated sequence calls for this trunk group. This field does not apply when the OSPS performs the checks on the number of digits dialed. This attribute must be entered on the RC/ODA form, except where specified otherwise in the PRL (alw7dig.rc-oda.9.1).

**Attribute:**
alwintrada
**Fullname:**
Allow intra DA
**Attribute Description:**
This attribute is being used by the DA/LOCDA feature to specify whether to allow or deny calls on a trunk group basis.

**Attribute:**
pp_overtime
**Fullname:**
Pre-paid overtime for coin
**Attribute Description:**
This attribute is being used by the Pre-paid Overtime for Coin feature to specify whether overtime on coin calls is to be pre-paid.

**Attribute:**
da_aggr_trk
**Fullname:**
DA/DACC aggregator trunk
**Attribute Description:**
This attribute indicates whether this trunk is beign used as a traffic aggregator for the OSPS Enhancements to DA and DACC for Wireline and Non-Wireline Users special feature

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**Attribute:**
carrierccs
**Fullname:**
Calling card screening by carrier
**Attribute Description:**
This attribute is used by the Calling Card Screening by Carrier feature to indicate whether this feature is active for this trunk group.

**Attribute:**
allowails
**Fullname:**
Allow AILS
**Attribute Description:**
This attribute is being used by the OSPS FGD - Release 2 special feature as a check as to whether or not Automated Inward Line Screening (AILS) treatment is to be given on calls received on this trunk group.

**Attribute:**
wireline
**Fullname:**
Wireline
**Attribute Description:**
This attribute is being used by the OSPS FGD - Release 2 special feature as a check as to whether or not this trunk will accept FGD signaling for non-wireless and non-Telecommunications Relay Service (TRS) OSPS calls.

**Attribute:**
carrierbrand
**Fullname:**
Carrier branding
**Attribute Description:**
This attribute is used to specify whether Carrier Specific Branding is active for this trunk group.

**Attribute:**
wlinedcis
**Fullname:**
Wireline direct connect incoming signaling
**Attribute Description:**
This attribute is being used by the OSPS FGD - MEANS feature as an indication of whether or not FGD wireline direct connect incoming signaling (DCIS) is active on this trunk group.

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**Attribute:**
wlessdcis
**Fullname:**
Wireless direct connect incoming signaling
**Attribute Description:**
This attribute is being used by the OSPS FGD - MEANS feature as an indication of whether or not FGD wireless direct connect incoming signaling (DCIS) is active on this trunk group.

**Attribute:**
ls_reconnect
**Fullname:**
Listing Services reconnect
**Attribute Description:**
This attribute is being used by the OSPS Customer-Controlled Reconnect to DA special feature as a check as to whether or not this feature applies to calls received on this trunk group.

**Attribute:**
accessid
**Fullname:**
Access ID
**Attribute Description:**
This attribute is being used by the OSPS AMA Recording of the Access ID for CAP Calls special feature as the id on a trunk group basis of an incoming Competitive Access Provider (CAP) call.

**Attribute:**
billinggrp
**Fullname:**
Billing group number
**Attribute Description:**
This attribute is being used by the OSPS Calling Card Screening by Call Type feature as the billing group id.

**Attribute:**
ospsff3
**Fullname:**
reserved for OSPS special features
**Attribute Description:**
This attribute is reserved and may be used when an OSPS feature is developed.

**Attribute:**
lnp_lrn

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**Fullname:**
LNP location routing number
**Attribute Description:**
This attribute is being used by the Local Number Portability feature as the location routing number.

**Attribute:**
lnp_query
**Fullname:**
Trunk Group Calling LNP Source Parameter
**Attribute Description:**
This attribute is being used by the Local Number Portability feature as the Trunk Group Calling LNP Source Parameter. A 0 (zero) means "no portability" (NOPT). A 1 (one) means "query" (QURY). A 2 (two) means "office code" (OFCD).

**Attribute:**
sasi_value
**Fullname:**
Special Access Service ID
**Attribute Description:**
This attribute is being used to indicate what the special access service ID value is.

**Attribute:**
adas_trunk
**Fullname:**
RaP/ADAS Trunk
**Attribute Description:**
This attribute is being used by the OSPS LS/DA Automation feature as a check as to whether or not calls should be routed to an automated position.

**Attribute:**
olns_act
**Fullname:**
Originating Line Number Screening(OLNS) activation parameter.
**Attribute Description:**
This attribute is being to activate OSPS Originating Line Number Screening(OLNS) feature.

**Attribute:**
honor_olns
**Fullname:**
Honor OLNS.
**Attribute Description:**
This attribute provides a means for the switch owner to designate

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whether the prohibition of caller request for an operator designated in an OLNS reply should be honored on calls arriving on a given trunk group.

**Attribute:**
olns_ama
**Fullname:**
OLNS AMA Module 219/019 Inclusion Parameter.
**Attribute Description:**
This attribute provides the operator system owner with a parameter to specify whether AMA Module 219 and 019 should be appended to an AMA record if OLNS applies to the call and if parameters were received that apply to Modules 219 and/or 019.

**Attribute:**
anigrpid
**Fullname:**
Originating line number screening automatic number identification group identifier.
**Attribute Description:**
The attribute indicates whether to send an OLNS query on all calls arriving on the trunk group, or to specify the ANI Group ID to be used on calls arriving on the incoming trunk group.

**Attribute:**
trk_pro_nxx
**Fullname:**
trunk group protected nxx
**Attribute Description:**
This attribute is being used by the NPA Handling By Trunk Group feature as the indicator as to weather or not trunk-group-protected nxx data must be populated.

**Attribute:**
interlcc_on
**Fullname:**
Inter-LATA DACC activation parameter
**Attribute Description:**
Indicates whether inter-LATA DACC is allowed or denied for a trunk group.

**Attribute:**
ospsff
**Fullname:**
reserved field for future OSPS fast features
**Attribute Description:**
This item is reserved and may be used when an OSPS fast feature is developed.

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**Attribute:**
annc_1
**Fullname:**
Reserved field for future OSPS Fast Feature
**Attribute Description:**
This item is reserved and may be used when an OSPS fast feature is developed.

**Attribute:**
annc_2
**Fullname:**
Reserved field for future OSPS Fast Feature
**Attribute Description:**
This item is reserved and may be used when an OSPS fast feature is developed.

**Attribute:**
ospsff1
**Fullname:**
reserved for future OSPS fast features
**Attribute Description:**
This item is reserved and may be used when an OSPS fast feature is developed.

**Attribute:**
oaff1
**Fullname:**
reserved for future OSPS SU features.
**Attribute Description:**
This item is reserved and may be used when an OSPS SU feature is developed.

**Attribute:**
lsspare
**Fullname:**
spare
**Attribute Description:**
Unknown

**Attribute:**
ospsff2
**Fullname:**
reserved for OSPS special features
**Attribute Description:**
This attribute is reserved and may be used when an OSPS feature is developed.

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**Attribute:**
long_oprtk
**Fullname:**
unsigned long attribute.
**Attribute Description:**
Unused.

**Attribute:**
shorta_oprtk
**Fullname:**
first unsigned short attribute.
**Attribute Description:**
Unused.

**Attribute:**
shortb_oprtk
**Fullname:**
second unsigned short attribute.
**Attribute Description:**
Unused.

**Attribute:**
char_oprtk
**Fullname:**
unsigned char attribute.
**Attribute Description:**
Unused.

**Attribute:**
boola_oprtk
**Fullname:**
first boolean attribute.
**Attribute Description:**
Unused.

**Attribute:**
boolb_oprtk
**Fullname:**
second boolean attribute.
**Attribute Description:**
Unused.

**Attribute:**
boolc_oprtk
**Fullname:**

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third boolean attribute.

**Attribute Description:**

Unused.

**Attribute:**

boold_oprtk

**Fullname:**

fourth boolean attribute.

**Attribute Description:**

Unused.

**Defines:**

"db/DMcarr_val.h"

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# FC_PBX

## 1. Description

PBX feature relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |

## 3. Field Layout

```
FC_PBX      relid = 667   DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL

    pbx_id      DMPBX_ID     (ushort: 12)     <--- key
 (a) ppm_ind     DMPPM_IND    (enum: 3)
 (b) abs_intc    DMBOOL       (enum: 1)
    origprot    DMSUB_LSIG   (enum: 6)
 (c) trace       DMTRC_TYPE   (enum: 2)
    termprot    DMSUB_LSIG   (enum: 6)
 (d) otrace      DMTRC_TYPE   (enum: 2)
 (e) absidivinhbt  DMBOOL       (enum: 1)
 (f) sc2         DMBOOL       (enum: 1)
 (g) sc2chg      DMBOOL       (enum: 1)
 (h) sc1         DMBOOL       (enum: 1)
 (i) freeterm    DMBOOL       (enum: 1)
 (j) orig        DMBOOL       (enum: 1)
 (k) datat       DMBOOL       (enum: 1)
 (l) ccv_ind     DMBOOL       (enum: 1)
 (m) secm_ind    DMBOOL       (enum: 1)
 (n) req_lbra    DMBOOL       (enum: 1)
 (o) mach_typ    DMBOOL       (enum: 1)
    pbx_owner   DMGPORT      (struct)
        member      DMGPORT       (ushort)
        module      DMMODULE     (ushort: 8)
        User, Compacted and Stored Tuple Layout FC_PBX
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                       |     | |           |   |           |   |
 0 |         pbx_id        |  a  |b|  origprot | c |  termprot | d |
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | |                                         |
 4 |e|f|g|h|i|j|k|l|m|n|o|*****************************************|
   |===============+========== pbx_owner ==========+===============|
   |                                 |               |               |
 8 |             member              |***************|     module    |
   |===============+===============+===============+===============|
      ( 12 bytes )
```

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## 4. Population Rules for RLfc_pbx

There are no population rules for this relation.

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# FC_PORTTYP

## 1. Description

This relation contains the port name to service class.

This is a virtual update relation. The tree diagram Figure 1 depicts the stored structure of virtual relation FC_PORTTYP.

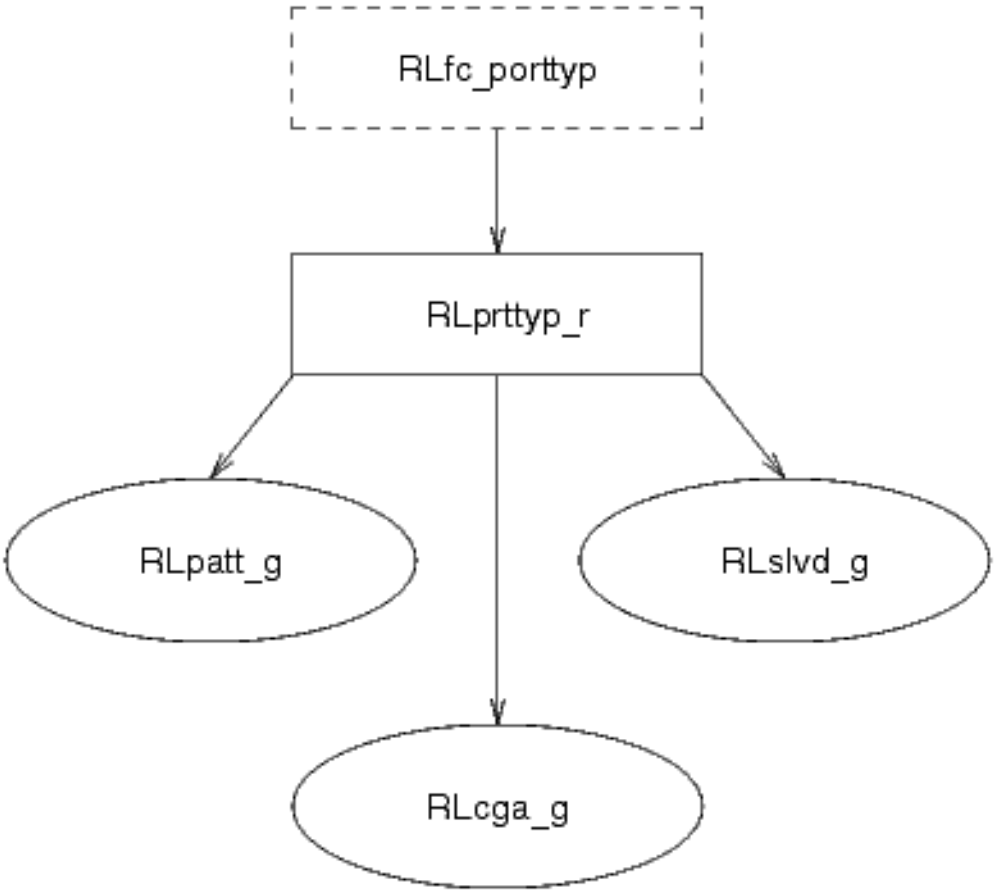


**Figure 1 Virtual Relation FC_PORTTYP**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | FCtr_porttyp |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBYES |

## 3. Field Layout

```
FC_PORTTYP  relid = 30    DBSTATIC   DBACC_OPV   DBNOTODD  FP      NULL
```

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```
    port        DMGPORT      (struct)  <--- key
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    cktname     DMCIRCUIT    (ushort)
    port_indx   DMPORTINDX   (ushort)
    cga_mem     DMMEMBER     (ushort)
(a) ffcf3       DMBOOL       (enum: 1)
(b) ialt_act    DMBOOL       (enum: 1)
(c) dcs_trk     DMBOOL       (enum: 1)
(d) prov        DMBOOL       (enum: 1)
(e) hunt        DMBOOL       (enum: 1)
(f) loaded      DMBOOL       (enum: 1)
(g) ltsb_alwd   DMBOOL       (enum: 1)
(h) porttype    DMPTYPE      (enum: 1)
(i) sh_analog   DMBOOL       (enum: 1)
(j) slcpbx      DMBOOL       (enum: 1)
(k) testport    DMBOOL       (enum: 1)
(l) ccssdl_dtrk  DMBOOL       (enum: 1)
(m) lneqlock    DMBOOL       (enum: 1)
(n) sleevind    DMBOOL       (enum: 1)
(o) crftlock    DMBOOL       (enum: 1)
(p) els_loss    DMBOOL       (enum: 1)
    sleevld     DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    cga_scnpt   DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    chanutype   DMCHANUTYP   (enum: 5)
(q) annc_apl    DMSVC_GRP    (enum: 3)
(r) pbalntwk    DMPBALNTWK   (enum: 4)
    spectrn     DMSPECTRN    (enum: 4)
(s) lneqclss    DMLNEQCLSS   (enum: 3)
(t) balntwk     DMBALNTWK    (enum: 2)
(u) cadn        DMCADN       (enum: 2)
(v) music_ind   DMBOOL       (enum: 1)
(w) pterm       DMPTERM      (enum: 2)
(x) rangex      DMRANGEX     (enum: 2)
(y) ffcf5       DMBOOL       (enum: 1)
(z) ffcf6       DMBOOL       (enum: 1)
(A) ffcf7       DMBOOL       (enum: 1)
(B) ffcf2       DMBOOL       (enum: 1)
    compenloss  DMISLOSS     (short)
    servclass   DMSERVCLASS  (enum)
    lp_type     DMLPTYPE     (enum: 7)
(C) ffcf4       DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout FC_PORTTYP
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+============  port ============+===============|
   |                                |               |               |
 0 |              member            |***************|     module    |
   |================+===============+===============+===============|
   |                                |                               |
```

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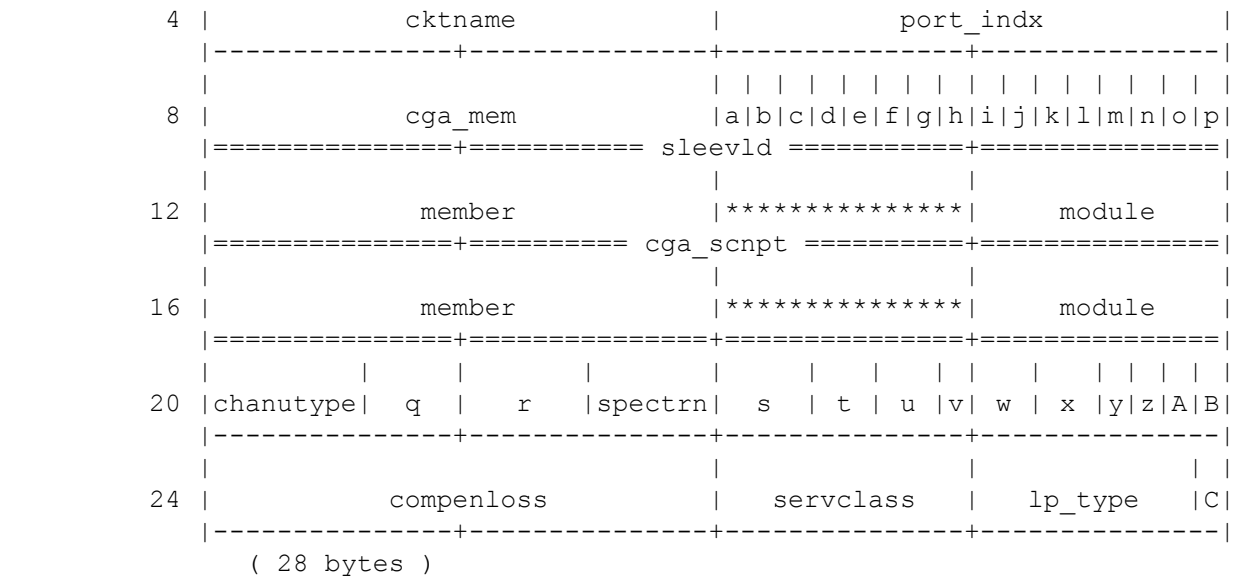


## 4. Population rules for RLfc_porttyp

### Relation Description

Port name to service class

Port name to service class.

Note: The check sections of this relation do not include any export population rules.

Note: See port usage section for port key format.

Application specific poprules for RPA remote digital test access (RDTA) ports

The RDTA capability allows ports to be equipped on an access switch using either a pseudo basic rate interface (BRI) port or an extended digital subscriber line (EDSL) primary rate interface (PRI) port. Pseudo BRI ports must be equipped on an integrated services line unit (ISLU) T line card, phase 2 U line card, American National Standards Institute (ANSI) U line card, ISLU2 T line card or an ISLU2 U line card. Refer to the population rules in RLdn_rdta for more details.

TUPLE SEMANTICS for pseudo BRI

The following RLfc_porttyp attributes are applicable for RDTA pseudo BRI use. All the attributes not listed shall use their default values.

| | |
|---|---|
| port | RDTA gport populated in RLdn_rdta. |
| servclass | TM_P_BRI. |
| hunt | DBNO. |
| sleevld | Zero. |

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```
slcpbx          DBNO.
lp_type         PCB_CHAN, PCUB_CHAN, PCRDTA_D, PCRDTA_UD.
sleevind        DBNO.
porttyp         TM_LINE.
testport        DBYES.
cadna           TMIIS.
sh_analog       DBNO.
ltsb_alwd       DBNO.
annc_apl        SVCNO_ANNC.

TUPLE SEMANTICS for EDSL PRI B-channel
--------------------------------------
The following RLfc_porttyp attributes are applicable for RDTA
EDSL PRI B-channel use (RDTA does not use EDSL D-channel for
data transmission).  All the attributes not listed shall use
their default values as listed for EDSL trunks.

port            RDTA gport populated in RLdn_rdta, RLgroup_port,
                and RLpggpmap.
servclass       FC_EDSL.
hunt            DBYES.
sleevld         Zero.
slcpbx          DBNO.
lp_type         PCTBCHAN.
sleevind        DBNO.
porttyp         TM_TRK.
testport        DBYES.
cadn            TMIIS.
sh_analog       DBNO.
ltsb_alwd       DBNO.
annc_apl        SVCNO_ANNC.
```

**Attribute:**

port

**Fullname:**

Port

**Attribute Description:**

This attribute is divided into sub-attributes port.member and port.module. Member is the port name of a line or trunk. This includes lines or trunks that have not been assigned but that do exist in the office. Module refers to the switching module number with possibilities from 1 to 192.

For additional information on the sub-attribute port.member, see DMport.G

Semi-postpay (SPP) coin service does not affect this attribute.

The format of port.member depends on the application and is specified in the following application specific population rules section. Module refers to the SM number of the port.

Structure:

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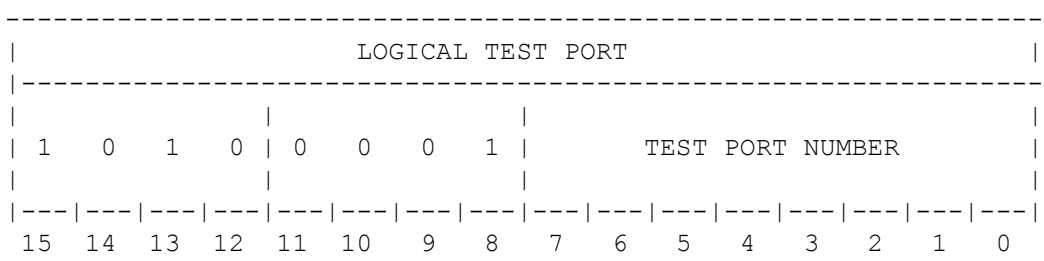
port.module range: 1-192.
port.member range: see the following.

Dependencies: See application sections.

Valid port formats and dependencies are:



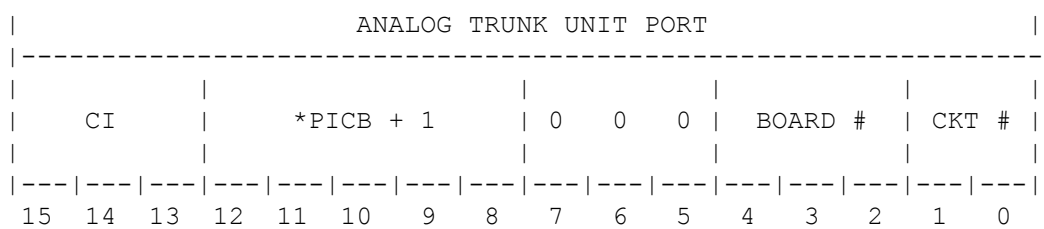

TEST PORT NUMBER - Logical transmission test function (TTF) test port (0 through 255)

Attribute servclass for logical test ports is limited to the following values:

DGLTPTTF,
DGPPMLTP,
DN_ELS_TTF,
TMDFTACLTP,
TMLTPDCTU,
TM_ALIT,
TM_SLIM,
TM_CALLBK,
TM_DCJACK,
TM_ICTC,
TM_MSU,
TM_OGTC,
TM_OTOTTF,
TM_ROTL,
TM_S96CTTTF,
TM_WSTTF.

---

TEN - trunk equipment number




- Previously the 'CI' and 'PICB+1' were considered as one eight bit field, and was referred to as the 'PICB + 1.'

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Historically, the 'CI' number has always been stored in the upper three bits (13-15) of the 'PICB+1'. Since in most cases its value was zero, it seemed invisible. However, it can also take the value of one, so this 'CI' field should be clearly identified as the prefix to the 'PICB+1' field. No code changes are needed to support this new delineation.

CI - Control interface (0,1).

PICB+1 - Peripheral interface control bus number + 1

BOARD number range is zero to seven.
CKT number range is zero to three.

Attribute servclass for analog trunk unit ports is limited to the following values:

FC_2WIRE_INDV,
FC_4WIRE_INDV,
FC_AIS,
FC_AISOA,
FC_ANNCMNT,
FC_AUX_TRNK,
FC_BSYVFY,
FC_ATNDVFY,
FC_BV_INTOLL,
FC_BV_TOLLCMP,
FC_CAMA,
FC_CA_ANI,
FC_CA_ONI,
FC_CP_KEYING,
FC_CP_TALKING,
FC_IEC,
FC_LATA_CONN,
FC_LTOLL_CONN,
FC_PDID,
FC_PF,
FC_PFCPE,
FC_PFLASH,
FC_PRI_INTOLL,
FC_RECCMPL,
FC_SEC_INTOLL,
FC_SES,
FC_SRVTRNK,
FC_TOLL_OPER,
FC_TSPS,
FC_TTOLL_CONN,
RC_UNASSIG,
TM_ACJACK,
TM_OTOTK,
TM_TSTK,
FCAPXIDCS,
FCAPXS1CST,
FCAPXS2CST.

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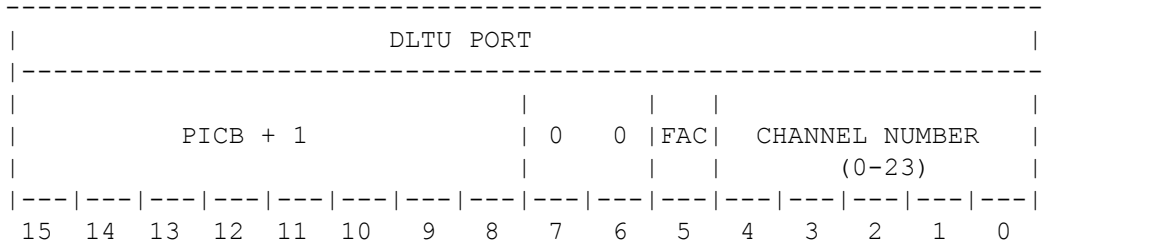
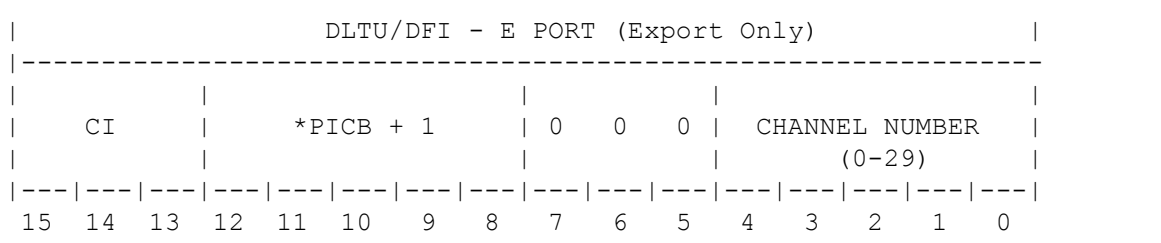
DEN - digital equipment number




- See note in TEN / ANALOG TRUNK UNIT PORT case for more information on CI/PICB+1 history.

CI - Control interface (0,1).

PICB+1 - Peripheral interface control bus number + 1

FAC - Facility number: Zero for old DFI. Zero or one for DFI-2.

Attribute servclass for DLTU and DLTU export (DLTU-E) ports is limited to the following values:

FC_4WIRE_INDV,
FC_AIS,
FC_AISOA,
FC_AUX_TRNK,
FC_ANNCMNT,
FC_BSYVFY,
FC_ATNDVFY (for DLTU only),
FC_BV_INTOLL,
FC_BV_TOLLCMP,
FC_CAMA,
FC_CA_ANI,
FC_CA_ONI,
FC_CP_KEYING,
FC_CP_TALKING,
FC_IEC,
FC_LATA_CONN,
FC_LTOLL_CONN,
FC_PDID,

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FC_PF,
FC_PFCPE,
FC_PFLASH,
FC_PRI_INTOLL,
FC_RECCMPL,
FC_SEC_INTOLL,
FC_SES,
FC_SRVTRNK,
FC_TOLL_OPER,
FC_TSPS,
FC_TTOLL_CONN,
RC_PPSRV,
RC_UNASSIG,
TM_TSTK,
FCAPXIVBST,
FCAPXS1CST,
FCAPXS2CST,
FCAPXIDCS,
FCAPXDSC,
FCAPXIVT.

DEPENDENCIES:
RLcktdata - One tuple for each port. The key into the RLcktdata relation is exactly like this key into RLfc_porttyp.

RLpicb - One tuple for the PICB used by this key. The key into the RLpicb relation is of type DMpicb. A DMpicb uses bits zero to four for the actual PICB number (not PICB+1), and bits five to seven for the CI number.

---

EDSL - DEN

Integrated services digital network (ISDN) extended digital subscriber line (EDSL)

| Port Name for D-channel or B-channel | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CI | | | *PICB + 1 | | | | | 0 | 0 | FAC | CHANNEL NUMBER (0-23) | | | | |
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |

Note: Logically, channel numbers are 0-23 as shown previously. For DFI, the facility (FAC) number is always zero. For DFI-2, the FAC number can be either zero or one. Only one channel, channel 23, can be assigned as a D-channel. Lucent Technologies custom PRIs will allow channels 0-22 to be assigned as B-channels, but Telcordia Technologies standard PRIs will allow channels 0-23 to be assigned as B-channels. If all 24 channels on a facility are assigned as B-channels, then a D-channel on another facility in the PRI group will handle the signaling. This is being done

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for the non-facility associated signaling (NFAS)/D-channel backup (DCBU) feature. NFAS allows a Telcordia Technologies standard PRI to have one D-channel for signaling and up to 479 B-channels. DCBU allows a second D-channel to be provisioned to a standard PRI to allow a backup D-channel for reliability. With DCBU, the PRI will have two D-channels (with only one actively carrying the signaling at a time) and up to 478 B-channels.

All channels on the DFI or DFI-2 are not required to be B-channels or D-channels. (They may be unassigned or assigned as nailed-up non-switched special service facilities that are not controlled by the D-channel.) Physically, channel numbers are 1-24 for DFI and 1-48 for DFI-2. For physical to logical representation conversion, channels 1-24 are mapped to channels 0-23 with FAC=0, and channels 25-48 are mapped to channels 0-23 with FAC=1.

- See note in TEN / ANALOG TRUNK UNIT PORT case for more information on CI/PICB+1 history.

CI - Control interface (0,1).

PICB+1 - Peripheral interface control bus number + 1

FAC - Facility number: Zero for old DFI. Zero or one for DFI-2.

---

Interswitch packet switching trunks - DEN

| Interswitch Packet Switching Trunks | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CI | | | *PICB + 1 | | | | | 0 | 0 | FAC | Channel Number | | | | |
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |

- See note in TEN / ANALOG TRUNK UNIT PORT case for more information on CI/PICB+1 history.

CI - Control interface (0,1).

PICB+1 - Peripheral interface control bus number + 1, where PICB = PICB of the DFI circuit.

FAC - Facility number: Zero for old DFI. Zero or one for DFI-2.

Channel Number - Channel number within the DFI circuit.

---

LEN - line equipment number

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```
Port names look like the following for the various line unit types:
port.member range: #GLMNPORT thru #GLMXPORT
NOTE: Since port.member is now just a logical number,
      refer to the port_indx section for details that may
      exist there.
-------------------------------------------------------------------
LTP - Logical Test Port


-------------------------------------------------------------------
NEN - Networking Equipment Number

Attribute servclass for NEN ports is
limited to the following values:

FC_4WIRE_INDV,
FC_AIS,
FC_AISOA,
FC_ANNCMNT,
FC_AUX_TRNK,
FC_BSYVFY,
FC_BV_INTOLL,
FC_BV_TOLLCMP,
FC_CAMA,
FC_CA_ANI,
FC_CA_ONI,
FC_CP_KEYING,
FC_CP_TALKING,
FC_EIS_TRK,
FC_IEC,
FC_ISPOPR,
FC_LATA_CONN,
FC_LTOLL_CONN,
FC_OPR_DIOR,
FC_OPRISP,
FC_PDID,
FC_PF,
FC_PFCPE,
FC_PFITT,
FC_PFLASH.
FC_PRI_INTOLL,
FC_RECCMPL,
FC_SEC_INTOLL,
FC_SES,
FC_SPAB800,
FC_SPAM800,
FC_SPAMEG,
FC_SPAWATS,
FC_SRVTRNK,
FC_TOLL_OPER,
FC_TSPS,
FC_TTOLL_CONN,
RC_PPSRV,
RC_UNASSIG,
```

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TM_RMSD3,
TM_TOPAS,
FCEDSL,
FCEDSLHM,
PSX25_T1,
PSPKT_TRK,
PSX75_TK,
PSX75P_TK,
FCAPXS1CST,
FCAPXS2CST,
FCAPX1VT,
FCAPXIDCS,
FCAPXDSC,
FCAPXIVBST,
TMAPXPPM,
TMBCM,

DEPENDENCIES:
RLcktdata - 1 tuple for each port.

NOTE: The NEN servclass values are listed previously to be
consistent with the other OEs. However the actual PRL
cross check appears in the RLfc_trunk relation based
on the unit type. Attribute servclass for EDSL ports
is limited to the following value:

FC_EDSL.
---
---
LCEN - (ISLU) Line Card Equipment Number

Attribute servclass for B-channel ports is limited to the following values:

FC_ISDN,
FC_ISATND,
OA_DAOPER,
OA_TAOPER,
AS_TCPIP,
TM_XDB.

OSPS population rules for ports
---

The switching module (SM) is equipped to handle more then 60 Operator Services Position System (OSPS) ports. These OSPS ports can be divided between one or more RISLU/ISLUs. With the possibility of commercial automatic call distribution (ACD) applications a customer may request more then 60 positions on a single RISLU/ISLU.

Line group controllers (LGCs) will be logically divided into four sub line group controllers (SLGs) each containing up to four OSPS line cards. The SLGs should be grown in order. This means that

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the first four line card (LC) positions should be installed in LC slots 16, 18, 20, and 22 of LGC 0 which is SLG 0. The next four LC positions should be installed in LC slots 16, 18, 20, and 22 of LGC 1 which is SLG 1. This should be done on all 16 LGCs before a fifth LC slot is equipped on any other LGC. Additional growth should start at LGC 0 and equip LC slots 8, 10, 12, and 14 which is SLG 16. This routine should be followed for each of the OSPS equipped line cards in the order of SLG numbers until the desired number of line cards are equipped.

OSPS ports which are connected to the RISLU/ISLU are divided into two groups. These groups are class-1 DSLs and class-2 DSLs. Class-1 DSLs are devices which use a B-channel or a B-channel and D-channel timeslot (such as BST, VDT, AMLB SRA, or Autoquote Z-card). Class-2 DSLs are devices which use a D-channel timeslot only (such as OAP, DAS/C, ACC, RTRS, HOBIS/HOBIC, RAS, Autoquote T-card).

The following diagram defines all of the SLGs that are provided for an OSPS equipped RISLU/ISLU.

| SLG | LGC | LINE CARDS | SLG | LGC | LINE CARDS |
|---|---|---|---|---|---|
| 0 | 0 | 16,18,20,22 | 32 | 0 | 24,26,28,30 |
| 1 | 1 | 16,18,20,22 | 33 | 1 | 24,26,28,30 |
| 2 | 2 | 16,18,20,22 | 34 | 2 | 24,26,28,30 |
| 3 | 3 | 16,18,20,22 | 35 | 3 | 24,26,28,30 |
| 4 | 4 | 16,18,20,22 | 36 | 4 | 24,26,28,30 |
| 5 | 5 | 16,18,20,22 | 37 | 5 | 24,26,28,30 |
| 6 | 6 | 16,18,20,22 | 38 | 6 | 24,26,28,30 |
| 7 | 7 | 16,18,20,22 | 39 | 7 | 24,26,28,30 |
| 8 | 8 | 16,18,20,22 | 40 | 8 | 24,26,28,30 |
| 9 | 9 | 16,18,20,22 | 41 | 9 | 24,26,28,30 |
| 10 | 10 | 16,18,20,22 | 42 | 10 | 24,26,28,30 |
| 11 | 11 | 16,18,20,22 | 43 | 11 | 24,26,28,30 |
| 12 | 12 | 16,18,20,22 | 44 | 12 | 24,26,28,30 |
| 13 | 13 | 16,18,20,22 | 45 | 13 | 24,26,28,30 |
| 14 | 14 | 16,18,20,22 | 46 | 14 | 24,26,28,30 |
| 15 | 15 | 16,18,20,22 | 47 | 15 | 24,26,28,30 |
| 16 | 0 | 8,10,12,14 | 48 | 0 | 0,2,4,6 |
| 17 | 1 | 8,10,12,14 | 49 | 1 | 0,2,4,6 |
| 18 | 2 | 8,10,12,14 | 50 | 2 | 0,2,4,6 |
| 19 | 3 | 8,10,12,14 | 51 | 3 | 0,2,4,6 |
| 20 | 4 | 8,10,12,14 | 52 | 4 | 0,2,4,6 |
| 21 | 5 | 8,10,12,14 | 53 | 5 | 0,2,4,6 |
| 22 | 6 | 8,10,12,14 | 54 | 6 | 0,2,4,6 |
| 23 | 7 | 8,10,12,14 | 55 | 7 | 0,2,4,6 |
| 24 | 8 | 8,10,12,14 | 56 | 8 | 0,2,4,6 |
| 25 | 9 | 8,10,12,14 | 57 | 9 | 0,2,4,6 |
| 26 | 10 | 8,10,12,14 | 58 | 10 | 0,2,4,6 |
| 27 | 11 | 8,10,12,14 | 59 | 11 | 0,2,4,6 |
| 28 | 12 | 8,10,12,14 | 60 | 12 | 0,2,4,6 |
| 29 | 13 | 8,10,12,14 | 61 | 13 | 0,2,4,6 |
| 30 | 14 | 8,10,12,14 | 62 | 14 | 0,2,4,6 |
| 31 | 15 | 8,10,12,14 | 63 | 15 | 0,2,4,6 |

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Service class FC_DASC must be assigned in pairs for load-sharing data link operation of directory assistance system computer (DASC) unit. The line cards specified in a DASC pair must be on separate line group controllers. Only one pair can be assigned per packet switching module (PSM).

B AND D CHANNEL PORT NOTES:

1. The D-channel port, 0xBXXX, will map to B-channel ports 0x8XXX and 0x9XXX. This scheme allows for the 0B+D, 1B+D, and 2B+D configurations. This mapping is algorithmic and will be utilized by users via a global primitive interface. Consistency between hardware and software port naming is maintained algorithmically, that is the first B-port (B1) will always be 0x8XXX in software and the second (B2) will be 0x9XXX.

1. With Port-Circuit Renaming the D-channel port, will map to B-channel ports through their relationship with the parent circuit. This scheme allows for This mapping is relational and will be utilized by users via a global primitive or macro interface. Consistency between hardware and software port naming is maintained in the database. Particular ports are obtained by reading the desired tuple with the common cktname and a port_indx of 1 (for B1) or 2 (for B2). The D-channel port will have a port_indx of 0.

2. LU1, LU2, ISLU(2) and RISLU unit numbers are mutually exclusive. That is, if one of the unit types is assigned a specific unit number, then the same SM may not have the same unit number assigned to another of the unit types.

3. DSL unassigned (line card status = SMUNEQ): fc_porttype tuples do not exist for any port on the DSL.

4. DSL unassigned (line-card status = SMGRO or SMOPER): The D-channel fc_porttype tuple exists with servclass = RC_PORTUNA. (Note: The 'lptype' should be PCD_CHAN for T-cards, or PCUD_CHAN for U-cards.) The RLdslequip tuple does not exist.

5. DSL assigned (line-card status = SMOPER): The D-channel fc_porttype tuple exists with servclass assigned (see servclass assignment rules). A B-channel fc_porttype tuple exists for each assigned B-port. Depending upon the servclass, a DSL may have 0, 1, or 2 B-ports assigned. (See servclass population rules.) The corresponding RLdslequip tuple must exist and be populated. If the values for b1_serv and b2_serv in RLdslequip are not RT_NO_SRV then the corresponding B-channel is assigned. If the DSL is a circuit switched DSL, the a tuple exists in RLfc_line for each assigned users.

6. The following comprise the intercept population rules for RLfc_porttyp. Intercept can be assigned to a multi-line hunt group (MLHG) individual member directory number (DN) or a member, including cases where the individual member DN is the same as the precedence MLHG group DN (such as, member 1's DN for regular,

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circular or and preemption MLHG [PPMHG] hunt groups.)

RLrt_dntran.termclass is not equal to RTTC_PORTGRP or
RLpr_dntran.pstermcl is not equal to RTTC_PORTGRP .

if the one of the DNs on the DSL is placed on intercept but is still associated with its physical and logical data:

then RLrt_dntran.termclass should equal RTTC_AGING and RLrt_dntran.portname.module is not 0 and RLrt_dntran.portname.member is not 0.
Or
RLpr_dntran.pstermcl should equal RTTC_AGING and RLpr_dntran.module is not 0

and the service class was that of an ISDN DSL
before the DN was placed on intercept:

THEN [for these ISDN intercept DNs]
a. RLfc_porttyp(dport).servclass remains unchanged.
b. RLfc_porttyp(bport).servclass remains unchanged.
c. All other tuples populated when the DSL was originally inserted remain unchanged.

ELSE [for all other non-MLHG DNs on intercept]
a. RLfc_porttyp(dport).servclass is RC_PORTUNA.
b. RLfc_porttyp(bport).servclass is RC_UNASSIG.
c. All other tuples populated when the DSL was originally inserted remain unchanged.

The D-channel port, 0XBXXX, maps into B-channel ports OX8XXX and 0X9XXX for B-channels, B1 and B2 respectively.

7. The following comprise the intercept population rules for RLfc_porttyp for X.25 packet switching on a T1 facility (XAT) ports with a non-MLHG DN:

RLpr_dntran.pstermcl is not equal to RTTC_PORTGRP.

if the DN of the XAT port is placed on intercept but is still associated with its physical and logical data:

RLpr_dntran.pstermcl should equal to RTTC_AGING and RLpr_dntran.module is not equal to 0.

and the service class was that of an XAT port before the DN was placed on intercept:

RLfc_porttyp.servclass should equal to PSX25_T1.

THEN [for this intercepted XAT port's DN with a port]
All tuples populated when the XAT port was originally inserted remain unchanged.

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```
ELSE [for all other non-MLHG XAT port DNs on intercept without a port]
a. RLfc_porttyp(bport).servclass is RC_UNASSIG.
b. All tuples populated when the XAT port was originally inserted
   are deleted.


-----------------------------------------------------------------
RAF

-----------------------------------------------------------------------

ILEN - IDCU Port
        Line on RT
        ----------
        Port on PUB43801
        ----------------

-----------------------------------------------------------------------
LCKEN - (ISLU2) Line Circuit Equipment Number

Attribute servclass for D-channel ports is limited to the following
values:

TM_P_BRI,
FC_ISDN,
FC_ISATND,
OA_MIS_LNK,
PS_APDSL.

OSPS is not currently supported on an ISLU2 in US.

Miscellaneous:
-----------------------------------------------------------------
```

**Attribute:**
port.member
**Fullname:**
Port member
**Attribute Description:**
Port member.

**Attribute:**
port.module
**Fullname:**
Module
**Attribute Description:**
Module the member resides in.

**Attribute:**
cktname

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**Fullname:**
Circuit name
**Attribute Description:**
Match port to parent circuit

**Attribute:**
port_indx
**Fullname:**
Port Index
**Attribute Description:**

The following gives a graphic view of port_indx's and the information they contain.

These port types have a port_indx value of 0 as shown.
ATU - analog trunk unit,
DCTU - digital carrier trunk unit,
DLTU - digital line/trunk unit,
IDCU(TR303 - EOC & TMC circuit) - ISDN digital carrier unit,
MTB - modular test bus,
RAF - remote announcement frame,
SAS - service announcement system
DNU-S - digital networking unit SONET
SDLP - signaling data link port.

| PORT INDEX | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | | | | | | | | |
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |

DCLU Ports

| DCLU PORT INDEX | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | bk | t1ts | | | | | shf |
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |

bk - RT bank 0 (shelves A, B) or 1 (shelves C, D)
t1ts - T1 TIMESLOT - T1 facility timeslot 0 to 23 within a shelf
shf - shelf number (A=0, B=1, C=0, D=1)

LU Ports

| LU1 PORT INDEX | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | brd | switch | | | | level | |
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |

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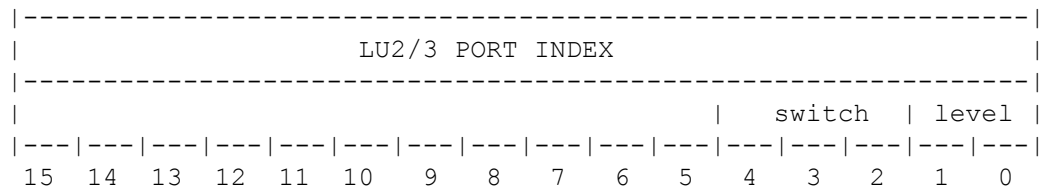
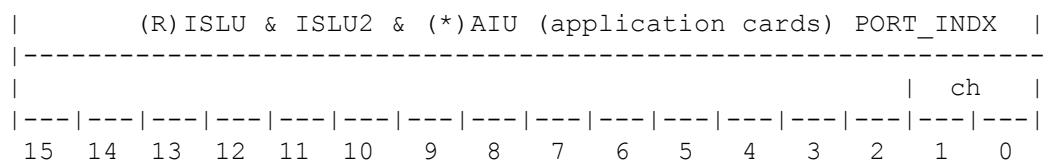


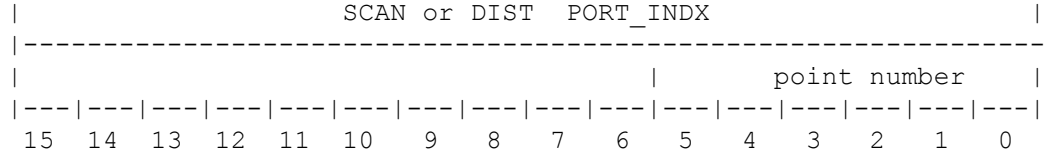

brd - Board number
switch - Switch on a board (0-7)
level - Level on the switch (0-3)

(R)ISLU & ISLU2 & (*)AIU Ports



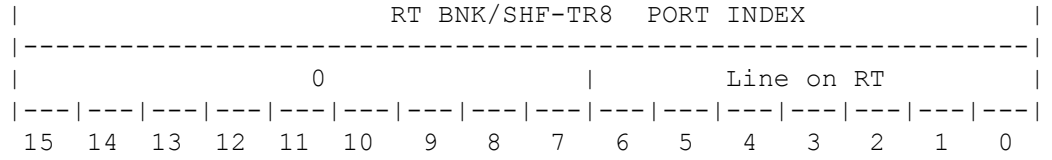

ch - Channel (D, B1, B2) - 0 thru 2,
Z-card (analog) port_indx = 0.
Coin-card port_indx = 0

MSU Ports

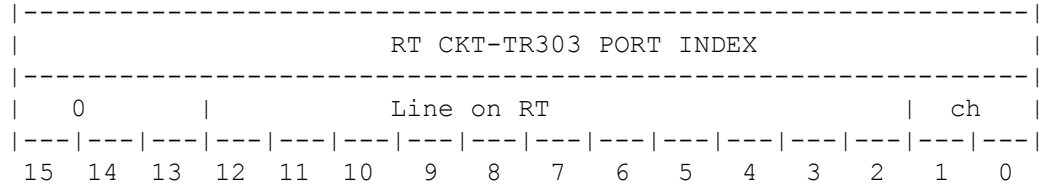



Point Number - 0 thru 31

IDCU Ports




TR8 RT(PCS96SHF, PCS96BNK):- Line on RT is 0 thru 95




TR303 RT(PCRDT303):- Line on RT is 0 thru 2047
- Line on RT + ch is 0 thru 8191
ch - channel, GLDCH, GLB1CH, GLB2CH

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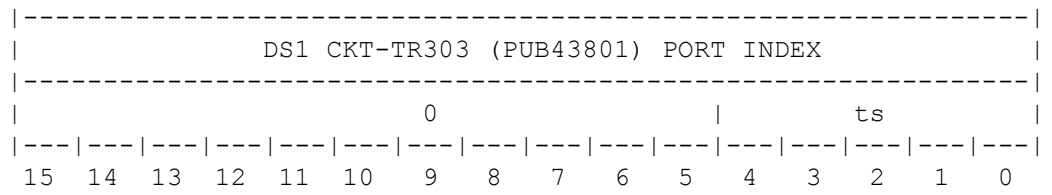
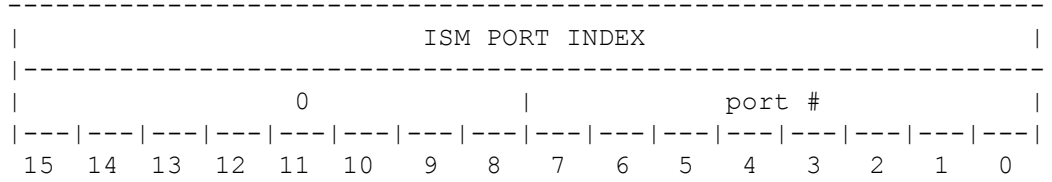


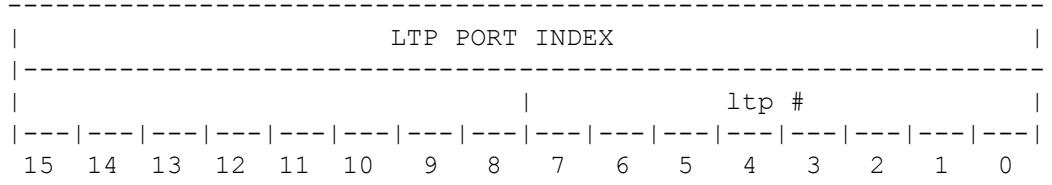

ts - time slot on the facility, 0 thru 23

ISM Port



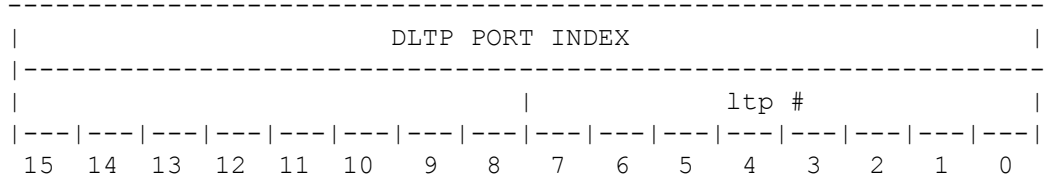

port # - 1 thru 160

LTP Port



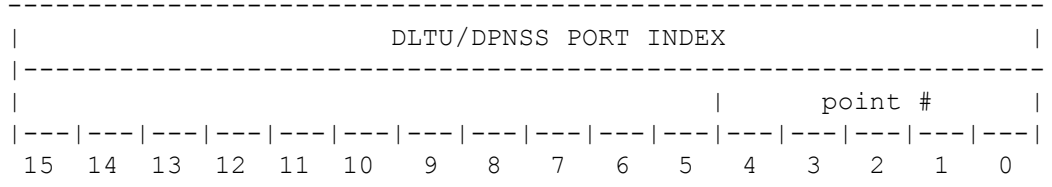

ltp # - 0 thru 255

DLTP Port



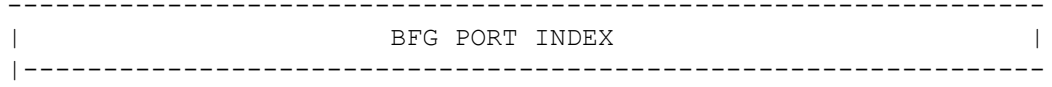

ltp # - 0 thru 255

DLTU/DPNSS Port (INT'L only)




point # - 0 thru 31

BFG Port

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```
|                   |                   bfgid                   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
 15  14  13  12  11  10   9   8   7   6   5   4   3   2   1   0
```

bfgid - 0 thru 2047

NOTE: BFG ports are not populated in RLfc_porttyp. This port_indx is shown here for completeness. BFG ports are populated in RLckt_port.

**Attribute:**

servclass

**Fullname:**

Service class

**Attribute Description:**

Class of service (COS). See DMservclass for descriptions. Valid values for U.S. applications and dependencies are as follows.

```
**********************************************
************ P L E A S E  N O T E *************
**********************************************

  TO UPDATE AND/OR MAINTAIN ANY SERVCLASS,
  THE FOLLOWING SHOULD BE CONSIDERED.
```

1. For existing servclass:
   a. If servclass has a population rule language (PRL) then update the PRL and the usage (comment) prior to it as necessary.

   b. If servclass does not have a PRL then, if no PRL is needed, update the usage section only.

      If PRL is needed, then move all comments related to that particular servclass to the check section and PRL code underneath.

2. For non-existing servclass, if PRL is needed, then move all comments related to that particular servclass to the check section and PRL code underneath. This should be done in the same manner as the existing file where usage description comes first then the 'when' statement follows with PRL code inside.

```
**********************************************
```

FC_ISPOPR - If there is a trunk with class of service FC_ISPOPR, there must be at least one tuple for FC_ISPOPR in RLda_timer. Also there must be an entry in the relation RLfc_oprtk with the trunk group number from the RLfc_trunk relation. For each tuple in RLfc_portyp with servclass of FC_ISPOPR, there may or may not be a corresponding tuple in RLsa_rmvtk (switch owner option) if the trunk resides in an RSM. For a port

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with class of service FC_ISPOPR (intermediate switch point for incoming operator trunk) there must be an entry in RLfc_trunk.G.

Class of service FC_ISPOPR cannot be used if the SM global parameter, Glconfigname = D_BASIC.

FC_OPR_DIOR - If there is a trunk with class of service FC_OPR_DIOR, there must be at least one tuple for FC_OPR_DIOR in RLda_timer. Also there must be an entry in the relation RLfc_oprtk with the trunk group number from the RLfc_trunk relation. For each tuple in RLfc_porttyp with servclass of FC_OPR_DIOR, there may or may not be a corresponding tuple in RLsa_rmvtk (switch owner option) if the trunk resides in an RSM. For a port with class of service FC_OPR_DIOR (direct international originations), there must be an entry in RLfc_trunk.G.

FC_OPRISP - One way outgoing trunk for the intermediate switching point (ISP) capability. This requires a corresponding tuple keyed by port in of the RLfc_trunk relation. This COS is used for call destined for operator systems with the exception of Traffic Service Position System (TSPS) Operator System (OS).

FC_OPRTSP - One way outgoing trunk for the ISP capability. This requires a corresponding tuple keyed by port in the RLfc_trunk relation. This COS is used for call destined for TSPS OS.

FC_PFCPE - U.S. only. Private facility (PF) customer premise equipment (CPE). This requires a corresponding tuple keyed by port in each of RLfc_trunk, RLpctrktxc, RLpggpmap and RLrc_trk. If RLfc_porttyp.servclass equals FC_PFCPE then RLfc_porttyp.lptype must equal PCCPEOTRK only. This servclass is applicable to analog trunks. See pop rules for rlFC_TRUNK.

FC_PFITT - PF intertandem tie trunk (ITT). Attribute lp_type must be one of PCCPEOTRK, PCTRKIC, PCTRKOG, PCDIGTRK, PCDIMOGT, PCDIMTRK, PCFXGRND, PCFXLOOP, PCOGDIGTRK, PCOGSPDLPTRK, PCTRUNK, PCDCCSTRK or PCACCSTRK. These servclasses are applicable to digital and analog trunks.

FC_PFLAMP - U.S. only. Distribute point corresponding to a PF busy lamp. Attribute lp_type must be PCLPNULL.

FC_PFLASH - U.S. only. Indicates either main - satellite trunk feature or, flash repeating trunks. This enumeration is same as PF for party filtering. This requires a corresponding tuple keyed by port in each of RLfc_trunk, RLpctrktxc, RLpggpmap and RLrc_trk. This

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also requires at least one corresponding tuple keyed by servclass in RLda_timer. Attribute lp_type must be one of PCCPEOTRK, PCTRKIC, PCTRKOG, PCDIGTRK, PCDIMOGT, PCDIMTRK, PCFXGRND, PCFXLOOP, PCOGDIGTRK, PCOGSPDLPTRK, or PCTRUNK. These servclasses are applicable to digital and analog trunks.

FC_PFSLV - PF scan point of sleeve lead. Attribute lp_type must be PCLPNULL.

FC_TOLL_OPER - U.S. and international. This requires a corresponding tuple keyed by port in each of RLfc_trunk, RLpctrktxc, RLpggpmap and RLrc_trk. This also requires at least one corresponding tuple keyed by servclass in RLda_timer.

PS_APDSL - The class of service is set to PS_APDSL for ports used for data links to an application processor (AP). The servclass, PS_APDSL, for ports must have a D-channel port only.

RC_TEST - U.S. and international.

SI_DTDA - U.S. and international.

TM_P_BRI - U.S. and international. The servclass is set to TM_P_BRI for ports used by RPA feature. There must exist a corresponding tuple in RLdn_rdta, RLfc_line and RLrt_dntran. There will not be tuples in RLpsx25ln, RLdslequip, RLequipdsl, RLdslgdata, RLdpidb_pt, RLdgrp_ri or RLri_dgrp. Refer to poprules for RLdn_rdta for more information.

## 5. FC_PORTTYP Population rules continued.

```
*****************************************************************
                MISCELLANEOUS CONSTRAINTS:
*****************************************************************
```

A line with multi-frequency ringing must be assigned a FC_INDVLD, FC_2PTY, FCPBX, PBXHOTMOT, FC_COIN, FC_5PTY, or FC_SATSTLN servclass value. FC_2PTY and FC_10PTY must not be assigned ISLC lp_type values.

This attribute has a dependency on the corresponding RLfc_trunk.sdnded. If RLfc_trunk.sdnded equals DBYES, then servclass must be one of the following:

FC_LATA_CONN,
FC_CA_ANI,
FC_CA_ONI,
FCEDSL,
FC_PF.

Any other servclass is not allowed to have RLfc_trunk.sdnded set to

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DBYES.

If the servclass is one of the following, a corresponding tuple must also exist in relations RLdldsl and RLxndldsl:

FC_DASC,
FC_RTRS,
FC_HOBIS,
FC_HOTVT,
FC_HOTRT,
HM_RAS,
OA_AQDSL,
AS_TCPIP,
TM_XDB,
OA_MIS_LNK,
FC_EIS_LNK.

(Note: For servclass TM_XDB & AS_TCPIP, RLdldsl and RLxndldsl tuples are to be populated only for the B1 channel, not for the D channel).

If the servclass is one of the following, a corresponding tuple must also exist in the relation RLdslequip:

OA_DAOPER,
FC_DASC,
AS_OAP,
HM_RAS,
OA_TAOPER,
FC_RTRS,
FC_HOBIS,
FC_HOTVT,
FC_HOTRT,
OA_AQDSL,
OA_MIS_LNK,
AS_TCPIP,
TM_XDB,
FC_EIS_LNK.

(Note: For servclass TM_XDB & AS_TCPIP, RLdslequip tuples for both the B1 channel and the D channel are to be populated, as described in population rules for RLdslequip).

If the servclass is one of the following, a corresponding tuple must also exist in the relation RLlprt_fw:

OA_DAOPER,
FC_DASC,
AS_OAP,
HM_RAS,
OA_MIS_LNK,
OA_TAOPER,
FC_RTRS,
FC_HOBIS,

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FC_HOTVT,
FC_HOTRT,
OA_AQDSL,
FC_EIS_LNK.

If the servclass is one of the following, the SM has to be a PSM:

OA_DAOPER,
FC_DASC,
AS_OAP,
OA_TAOPER.

**********

ACD MIS and OSPS DSL, TCP_IP and EDSL service classes and DSLGDATA counts

| dslg_cnt usr_cnt | mlhg_cnt | dpkt_cnt | ts_cnt |
|---|---|---|---|
| increment previous cnts by 1 for all of the following ACD MIS or OSPS DSLs assigned to a dslgroup | increment cnt by 1 for the following OSPS DSL assigned to a dslgroup | increment cnt by 1 for the following OSPS DSL assigned to a dslgroup | increment cnt by:<br>1 per EDSL<br>1 per PSB-Chn<br>1/4 per D-Chn |
| OA_IFOPER<br>OA_IFTERM<br>TM_XDB D-Chn<br>OA_DAOPER D-Chn<br>AS_OAP<br>OA_MIS_LNK<br>AS_TCPIP D-Chn<br>FC_HOBIS<br>OA_AQDSL<br>FC_DASC<br>FC_HOTRT<br>FC_HOTVT<br>FC_RTRS<br>OA_TAOPER D-Chn<br>HM_RAS | TM_XDB B1-Chan | OA_TAOPER D-Chn with AMLBDSL.dserv=SX | OA_IFOPER<br>OA_IFTERM<br>TM_XDB D-Chn<br>OA_DAOPER D-Chn<br>AS_OAP<br>OA_MIS_LNK<br>AS_TCPIP D-Chn<br>FC_HOBIS<br>OA_AQDSL<br>FC_DASC<br>FC_HOTRT<br>FC_HOTVT<br>FC_RTRS<br>OA_TAOPER D-Chn<br>HM_RAS |

| EDSLs are used by: | PSB-Chns are used by: | D-Chns are used by: |
|---|---|---|
| OA_IFOPER<br>OA_IFTERM | TM_XDB | all other service classes |
| | AS_TCPIP | service classes |

PSB-Chns = Packet switched B-channel
Full B-Chns for TCP_IP

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Refer to RLdslgdata poprules for further info on dslg_cnt, usr_cnt, mlhg_cnt, dpkt_cnt and ts_cnt.

**Attribute:**
hunt
**Fullname:**
Hunted port
**Attribute Description:**
Indicates whether this port is hunted. This attribute should be DBYES for all trunks in trunk groups with hunt types other than RTH_NONE (that is, two-way, one-way outgoing, and recorded announcement trunks).

This attribute is not used by XAT ports. XAT ports can be members of packet switched MLHG, but ports which are part of a circuit switched MLHG would make use of this attribute.

It should also be DBYES for all hunted members of MLHGs(1 thru 2015) whose service class is not FC_ISDN or FC_ISATND.
OUTDIAL members of a MLHG (3001-3999) are not hunted. They are used for origination purposes. Therefore, for OUTDIAL members this hunt attribute must be DBNO.

SPP coin service does not affect 'hunt.'

For international, the hunt attribute must be DBNO for all lines in MLHGs which have a hunt type of RTH_NONE. In this case the MLHG is the originating group attached to a private branch exchange (PBX).

If this tuple corresponds to an ISDN or ISDN attendant (ISAT) line, then hunt is always set to DBNO.

**Attribute:**
sleevld
**Fullname:**
Sleeve lead global port name
**Attribute Description:**
This attribute is divided into subattributes sleevld.circuit and sleevld.module. It describes the circuit and module for a distribute point on the MSU that is used to short a tip/ring pair on the main distributing frame (MDF) when the port originates or terminates. SPP coin service does not affect 'sleevld'.

This attribute is not used by XAT ports; populate with zero for XAT ports.
sleevld.member and sleevld.module.
Note: The default for this attribute depends on the class of service. If servclass is HM_REM_ALM then the default would be 0xffff as indicated in the comment section of the servclass attribute. For all other types

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the default will be 0.

For CDMA, for the trunks with the servclass = TMAPXPPM (Packet Pipe Member trunks), this attribute will have the gport (global port) of its Packet Pipe (PP) trunk (CDMA trunk with the servclass = PSAPXPP), to point back to its PP trunk.

**Attribute:**
sleevld.member
**Fullname:**
sleeve lead port.
**Attribute Description:**
This attribute is not used by XAT ports.

**Attribute:**
sleevld.module
**Fullname:**
Module
**Attribute Description:**
This attribute is not used by XAT ports.

**Attribute:**
slcpbx
**Fullname:**
SLC(R) private branch exchange
**Attribute Description:**
This attribute is not used by XAT ports, populate with DBNO for XAT ports.

**Attribute:**
lp_type
**Fullname:**
Logical port type
**Attribute Description:**
This attribute allows the specification of specific line and trunk types. Examples are individual loop start line, individual ground start line, PBX ground start line, analog incoming trunk, analog outgoing trunk, two-way, immediate dial, recorded announcement, digital incoming or digital outgoing trunk.

In order for SPP coin service to be added to the 5ESS(R)-2000 switch, three new lp_types must be declared. The three new lp_types are: PCSPPCOIN, PCS96CSPPCOIN, and PCS96NSPPCOIN. These are for cases of SPP coin on normal lines, concentrated SLC(R) lines and non-concentrated SLC(R) lines. If the servclass for a line is 'coin,' the lp_type associated with that line must be one of the twelve 'coin' lp_types (that is, PCCFCOIN, PCDTFCOIN, PCSPPCOIN,

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PCS96CCFCOIN, PCS96CDTFCOIN, PCS96CSPPCOIN, PCS96NCFCOIN, PC303CFCOIN, PC303DTFCOIN, PC303SPPCOIN, PCS96NDTFCOIN, or PCS96NSPPCOIN).

For ground start lines, the lp_type is PCGSPOTSL or PCPBX. For concentrated SLC(R) ground start lines, populate as PCS96CPBX. For non-concentrated SLC(R) ground start lines, use PCS96NPBX.

Note: See the assignment rules for 'lptype' associated with the attribute field, 'servclass' described previously.

Set to PCFXGRND for FX trunk with ground start supervision
Set to PCFXLOOP for FX trunk with loop start supervision

Dependency: Verify that the tuple in RLfc_trunk with this port as key if it exists, meets the following:

If == PCFXGRND, rlFC_TRUNK.out_startsig = FCFXGRND
If == PCFXLOOP, rlFC_TRUNK.out_startsig = FCFXLOOP
If == PCFXGRND, rlFC_TRUNK.in_startsig = FCFXGRND
If == PCFXLOOP, rlFC_TRUNK.in_startsig = FCFXLOOP

The previous conditions exist except for the following condition: If rlFC_TRUNK.in_startsig == FCDIRCON and rlRT_TRKG.rlt_type == (RLT_TEMP | RLT_PERM), then RLfc_porttyp.lp_type = PCFXGRND.

'lp_type' constraints for DSL assignments

This attribute specifies the logical port type. It should be PCD_CHAN for T-card D-channel ports or PCUD_CHAN for U-cards D-channel ports. Similarly, the lptype should be set to PCB_CHAN for T-card B-channel ports (without packet switching) or PCUB_CHAN for U-card B-channel ports.

For B-channels with packet switching, the lptype should be populated based on RLcktdata.type which indicates if the B-channel is nailed up to a T-line or U-line card. The following diagram indicates the population rule for lptype for B-channels with packet switching.

| RLcktdata.type attribute | lp_type |
|---|---|
| PCTCARD | PCTXB_CHAN |
| PCUCARD | PCUXB_CHAN |
| PCSPRUCARD | PCUXB_CHAN |
| PCU_ANSI | PCUXB_CHAN |
| PCSPRU_ANSI | PCUXB_CHAN |
| PCI2TCKT | PCTXB_CHAN |
| PCI2UCKT | PCUXB_CHAN |
| PCI2SPRUCKT | PCUXB_CHAN |

PCU_ANSI and PCSPRU_ANSI are defined in Domain DMLPTYPE.

For XAT ports populate with PSXAT. This indicates that this port provides X.25 packet switching on a T1 facility.

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Valid values, descriptions and dependencies are as follows:

PCACCSTRK - Analog common channel signaling (CCS) trunk. U.S. and international. Attribute servclass must be one of FC_LTOLL_CONN, FC_TTOLL_CONN, FC_PRI_INTOLL, FC_SEC_INTOLL, FC_BV_INTOLL, FC_BV_TOLLCMP, FC_PFITT, FC_IEC, or FC_LATA_CONN.

PCACJACK - Trunk and line work station (TLWS) alternating current (AC) jack port. See TLWS AC JACK application section.

PCALIT - Automatic line insulation test (ALIT) MSU pack port. See ALIT logical test port application section.

PCB_CHAN - B-channel logical port type.

PCCFCOIN - Coin-first coin line.

PCCPEOTRK - Outgoing trunk to CPE.

PCDCCSTRK - Digital CCS trunk. U.S. and international. Attribute servclass must be one of FC_LTOLL_CONN, FC_TTOLL_CONN, FC_PRI_INTOLL, FC_SEC_INTOLL, FC_BV_INTOLL, FC_BV_TOLLCMP, FC_PFITT, FC_IEC, FC_LATA_CONN.

PCDCJACK - TLWS direct current (DC) jack port. See TLWS AC JACK application section.

PCDIGTRK - Digital trunk.

PCDIMOGT -

PCDIMTRK -

PCDTFCOIN - Dial-tone-first coin line.

PCD_CHAN - D-channel logical port type. For DSL D-port, the lptype is PCD_CHAN for T-cards.

PCFXGRND - Ground start supervision foreign exchange (FX) trunk. RLfc_trunk.out_startsig must be FCFXGRND. RLfc_trunk.in_startsig must be FCFXGRND.

PCFXLOOP - Loop start supervision FX trunk. RLfc_trunk.out_startsig must be FCFXLOOP. RLfc_trunk.in_startsig must be FCFXLOOP.

PCGRPALERT -

PCGSPOTSL - Ground start plain old telephone service (POTS) line (non-SLC(R)).

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PCIMMINCTRK -

PCIMMOGTRK -

PCIMMTRK - If a trunk is a 2-way trunk and the class of service is FC_LTOLL_CONN (local toll trunk) and the in_startsig from FC_TRUNK relation is FCIMMED, lp_type must be set to PCIMMTRK.

PCISMPT -

PC_ISTFLB - Integrated services test facility (ISTF) loopback logical test port.

PC_ISTFXMIT - ISTF transmission logical test port.

PCISWIP - Logical port type for interswitch packet trunks.

PCITSTK - Incoming local test desk (LTD) test trunk. Refer to application specific rules section for LTD test trunk.

PCLPNULL -

PCLSPOTSL -

PCLTPDCTU - PC logical DCTU test port.

PCMAJ - Metallic access junctor logical test port.

PCMD_DLT - Message delivery port.

PCMDFTSTPORT - Distributing frame test access circuit (DFTAC) logical port.

PCOGDIGTRK -

PCOGSPDLPTRK -

PCOTSTK - Outgoing LTD test trunk. Refer to the application specific rules section for LTD test trunk.

PCPBX - Ground start PBX line (non-SLC(R)).

PCPBXRLG - PBX with release guard.

PCPPMLTP - Modular metallic service unit (MMSU) periodic pulse metering (PPM) test circuit logical test port. International only.

PCRAFANN - For RAF and SAS trunk port, the lp_type should be FCRAFANN for ports having only the announcement capability (U.S. and international). For U.S. RAS, ACSR, SLE, ASP, and 2LV DSU2-RAF applications, lp_type type

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should not be set to PCRAFANN.

PCRAFCTR - For RAF and SAS trunk port, coin receiver announcement ports.

PCRAFDTA - For RAF and SAS trunk port, the lp_type should be FCRAFDTA for ports with the dial-through announcement capability. For U.S. RAS, ACSR, SLE, ASP, and 2LV DSU2-RAF applications, the brd0type attribute of the RLpicb tuple corresponding to the RAF unit should not be set to PCCTR.

PCRECDANN -

PCRPINCTRK - Revertive pulsing incoming trunk. U.S. only. The servclass must be FC_LTOLL_CONN.

PCRPOGTRK - Revertive pulsing outgoing trunk. U.S. only. The servclass must be FC_LTOLL_CONN.

PCS96CCFCOIN - Concentrated SLC(R) 96 coin-first coin.

PCS96CDTFCOIN - Concentrated SLC(R) 96 dial-tone-first coin.

PCS96CON -

PCS96CPBX - Concentrated SLC(R) 96 ground start PBX line.

PCS96CPOTS -

PCS96CSPPCOIN - Concentrated SLC(R) 96 SPP coin line.

PCS96CWATS -

PCS96NCFCOIN - Non-concentrated coin-first coin.

PCS96NCON -

PCS96NDTFCOIN - Non-concentrated dial-tone-first coin.

PCS96NPBX - Non-concentrated SLC(R) 96 ground start PBX line.

PCS96NPOTS -

PCS96NSPPCOIN - Non-concentrated SLC(R) 96 SPP coin line.

PCS96NWATS -

PCSDL - Signaling data line port.

PCSLIM - Logical test ports for subscriber look instrument measurements (SLIM).

PCSIMLINETRK -

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PCST_DLT - Signaling terminal ports.

PCSPPCOIN - International only. SPP coin line.

PCTBCHAN - EDSL B-channels.

PCTDCHAN - EDSL D-channels.

PCTRKIC -

PCTRKOG -

PCTRUNK -

PCTTF -

PCTXB_CHAN -

PCUD_CHAN - For DSL D-port, the lptype is PCUD_CHAN for U-cards.

PCUB_CHAN - For DSL B-port, the lptype is PCUB_CHAN for U-cards.

PCUXB_CHAN -

**Attribute:**
sleevind
**Fullname:**
Sleeve index
**Attribute Description:**
Set to DBYES if there is a distribute point on the MSU associated with the port. When this attribute is set to DBYES, the 'sleevld' attribute identifies the distribute point. SPP coin service does not affect 'sleevind.' This attribute is not used by XAT ports.

**Attribute:**
loaded
**Fullname:**
Loaded
**Attribute Description:**
This attribute is not used by XAT ports. Currently populated as DBNO. SPP coin service does not affect 'loaded.'

**Attribute:**
rangex
**Fullname:**
Range X
**Attribute Description:**
This attribute is not used by XAT ports. Currently populated as DBNO. SPP coin service does not affect 'rangex.'

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**Attribute:**
balntwk
**Fullname:**
Balance network
**Attribute Description:**
This attribute allows to specify which balance network or which compensation loss is to be applied to the subscriber's analog line. The use of this attribute depends on the value of the global office parameter Glbalntwk.

If the parameter is DBYES, then the balntwk attribute is for balance network values. These balance networks are used to match the impedance with the customer line and 5ESS(R)-2000 switch in order to reduce the echo. There are four balance networks (PCBLNET0, PCBLNET1, PCBLNET2, and PCBLNET3) are available in the channel circuit. The balance network selection should be made depending upon the characteristic of the customer line.

If the parameter Glbalntwk is equal to DBNO, then balntwk is used for compensation loss values. The compensation loss is used to compensate for attenuation on the subscriber's loop. In the 5EE1(2) generic the only valid value for this attribute as compensation loss will be PCBLNET0. This results in a 0 dB compensation loss being applied.

The global parameter GLbalntwk is not used by U.S. The population of attribute balntwk for U.S. is based upon the values of loaded and rangex (as noted in the following.)

For countries which do not have different balance networks to choose from, the default ISLU-Z balance network is PCBLNET1.

For U.S., set balntwk according to loaded and rangex settings as given in the following table.

| rangex | loaded | balntwk |
|---|---|---|
| PCRENONE | DBNO | PCBLNET1 |
| PCRENONE | DBYES | PCBLNET0 |
| PCREEXTERNAL | N/A | PCBLNET2 |

This attribute is not used by XAT ports, populate with PCBLNET1 for XAT ports.

**Attribute:**
spectrn
**Fullname:**
Special transmission
**Attribute Description:**

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This attribute is used by the PC subsystem to specify the customer loop type (loaded or non_loaded). It is also used to specify any additional loss to the line. Additional loss is applied only when normal loss is first applied but there are customer complaints about poor transmission, or a loop is misdesigned.

This attribute is not used by XAT ports.

**Attribute:**
crftlock
**Fullname:**
crftlock
**Attribute Description:**
Currently populated as DBNO. SPP coin service does not affect 'crtflock.'

This attribute is not used by XAT ports.

**Attribute:**
lneqclss
**Fullname:**
Line equipment class
**Attribute Description:**
This attribute allows the specification of the class of equipment which can be connected to a line port. DNNULLEQ is the default for all lines and the attribute may be updated by either RCV or system software. The 'lneqclss' attribute is used to store the additional MF outpulsing loss value for DSN trunks. SPP coin service does not affect 'lneqclss.' This attribute is not used by XAT ports.

lneqclss of DNCLS1EQ should be used on 4-wire data lines "FC_4WIRE_INDV" using 56Kb data service, voice routing.

lneqclss of DNCLS2EQ should be used on 4-wire data lines "FC_4WIRE_INDV" using 56Kb data service, data routing.

DNCLS1EQ and DNCLS2EQ provide 0db of loss.

**Attribute:**
lneqlock
**Fullname:**
Line equipment lock
**Attribute Description:**
DBYES only if the user changes the line equipment class using RCV and does not want system software to update the line equipment class. Must be DBNO for all ports except lines. SPP coin service does not affect 'lneqlock.' This attribute is not used by XAT ports.

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**Attribute:**
porttype
**Fullname:**
Port type
**Attribute Description:**
Two enumerations exist for this attribute, TM_LINE and TM_TRK. TM_TRK is used for all ports designated as trunks including all terminal maintenance ports. SPP does not affect 'porttyp.' For XAT ports, populate this attribute with TM_LINE. This indicates that this port supports line types of service.

PUB43801 ports which are unassigned have a porttype of TM_TRK. If they are assigned service from the analog line assignment view or are assigned, without a TN, directly on the nailup view, they will have a porttype of TM_LINE.

**Attribute:**
testport
**Fullname:**
Test port
**Attribute Description:**
DBYES if this is a special port used only for testing. Note that this is applicable to both analog and DSL B-channel or D-channel ports. SPP does not affect 'testport.' This attribute is not used by XAT ports.

**Attribute:**
chanutype
**Fullname:**
Channel unit type
**Attribute Description:**
Channel unit type. This attribute is not used by XAT ports. Populate with PCS96NULL for XAT ports.

**Attribute:**
els_loss
**Fullname:**
Electronic loop segregation (ELS) loss bit.
**Attribute Description:**
DBYES if this is a loss bit option parameter. SPP does not affect 'els_loss.' Must be DBNO for all ports except analog lines. This attribute is not used by XAT ports.

**Attribute:**
compenloss
**Fullname:**
Compensation loss
**Attribute Description:**
The compensation attenuation, set per line for the subscriber.

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Used for ISLU(2)-Z which is not currently supported for U.S. applications. In U.S. applications set to zero. For international, the compensation attenuation is set on a per country basis. Valid values are +3.0 to -9.0db in 0.5db increments. Global parameter Glsaloss must be added to 'compemnloss' before performing the range check. This attribute is not used by XAT ports, populate with zero for XAT ports.

**Attribute:**
cadn
**Fullname:**
Circuit administration
**Attribute Description:**
This attribute is used by the TM subsystem following an SM full initialization to determine the port status of a port. This allows the circuit administration (TMIOCD) status to be preserved over a SM full initialization. If the CADN attribute on the ODA input form is TMIOCD and the port is a trunk, this attribute should be populated to TMIOCD. Otherwise, this attribute should be populated to TMIIS (in-service).

For XAT ports, populate this attribute with TMIIS. This indicates that after an SM full initialization, an attempt should be made to bring this port in-service.

**Attribute:**
sh_analog
**Fullname:**
Shared analog
**Attribute Description:**
This attribute is set to DBYES when the analog port is a member of a key system group. Key system groups can only have one analog member. The rest of the members have a FC_ISDN class of service. When DBYES, then servclass = FC_INDVDL. Also RLis_line(RLfc_line(port,0)ltm_idx,lead_module) tuple will be populated for this 'lport'. See population rules in RLis_line.

This attribute is not used by XAT ports, populate with DBNO for XAT ports.

**Attribute:**
ltsb_alwd
**Fullname:**
Line time slot bridging (LTSB) allowed.
**Attribute Description:**
This attribute signifies whether or not the port is an LTSB port.

1. If ltsb_alwd equals DBYES and ialt_act equals DBNO, then:

   RLfc_line.port = RLfc_porttyp.port

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```
   servclass       = FC_INDVDL, FC_TWOPTY, FC_2PTY
2. If ltsb_alwd equals DBYES and ialt_act equals DBYES, then:

   RLfc_line.port  = RLfc_porttyp.port
   servclass       = FC_INDVDL

   (servclass coming from RLrc_lcc due to intercept condition.)

3. If servclass equals FC_INDVDL then:

   hunt            either DBNO or DBYES
   sleevld         Zero
   slcpbx          DBNO
   lp_type         Any valid type for a single party line
                   with an individual class of service.
   sleevind        DBNO
   porttype        TM_LINE
   testport        DBNO
   chanutype       Any valid type for a single party line
                   with an individual class of service.
   sh_analog       DBNO
   ialt_act        either DBNO or DBYES

4. If servclass equals FC_2PTY or FC_TWOPTY then:

   hunt            DBNO
   sleevld         Zero
   slcpbx          DBNO
   lp_type         Any valid type for a two party line
                   with a two party class of service.
   sleevind        DBNO
   porttype        TM_LINE
   testport        DBNO
   chanutype       Any valid type for a two party line
                   with a two party class of service.
   sh_analog       DBNO
   ialt_act        DBNO

In addition, the attribute 'testport' must be populated
identically for both RLfc_porttyp tuples in the LTSB
group, that is, if testport == DBYES for this tuple, then the
RLfc_porttyp tuple for RLltsbport.asoc_port on SM
RLltsbport.asoc_mod must also have testport == DBYES.
The RLltsbport tuple is found by using the lport from
the RLfc_line tuple identified previously in 1 (see the
poprules for RLfc_line and RLltsbport for details).

This attribute is not used by XAT ports; populate with DBNO for
XAT ports.
```

**Attribute:**

annc_apl

**Fullname:**

Announcement application

**Attribute Description:**

This attribute identifies the application using the port. The following is a list of ports and their lp_types:

PCRAFANN - Announcement ports
PCRAFDTA - Dial-through announcement ports
PCRAFCTR - Coin tone receiver

If the port is not one of the types listed previously, then this attribute should be set to SVCNO_ANNC indicating that no announcements have been assigned to the port.

The following is a list of attributes and their servclass:

SVC_DA - The servclass must be FC_RAFANNC.
SVC_ACCS - The servclass must be FC_RAFDTA.
SVC_COIN - The servclass must be FC_RAFCTR.
SVC_RAS - The servclass must be FC_RAFDTA.
SVC_ACSR - The servclass must be FC_RAFDTA.
SVC_PVN - The servclass must be FC_RAFDTA.
SVC_AOC - The servclass must be set to FC_RAFANNC.

This attribute is not used by XAT ports, populate with SVCNO_ANNC for XAT ports.

**Attribute:**

music_ind

**Fullname:**

Music indicator

**Attribute Description:**

Boolean which designates the port to be a music source. If this is not a music port, 'music_ind' equals DBNO. If this is a music port, 'music_ind' equals DBYES.

**Attribute:**

ialt_act

**Fullname:**

Intraswitch analog line transfer (IALT) active

**Attribute Description:**

This attribute cannot be changed from the default unless the special feature ID SFID080 is turned on.

This attribute is used to indicate that the IALT feature has been assigned to this line.

**Attribute:**

ffcf2

**Fullname:**

Boolean reserved for future field feature

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**Attribute Description:**
See fullname description

**Attribute:**
ffcf3
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

**Attribute:**
ffcf4
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

**Attribute:**
ffcf5
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

**Attribute:**
ffcf6
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

**Attribute:**
ffcf7
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

**Attribute:**
prov
**Fullname:**
Provisioning bit
**Attribute Description:**
The provisioning bit is used for lines on TR303 remote terminals. This bit denotes those lines which need to be provisioned in the TR303 RT, as a result of RC operations on RT lines. RC sets this bit to DBYES.

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After successful RT line provisioning, the TM provisioning software sets this bit to DBNO. This bit is also set to DBYES by ODA for all lines on TR303 RTs for new offices.

For TR303 RT ISDN lines, the provisioning bit is set to DBYES only for the ISDN D-channel tuple. Provisioning bit can not be set for ISDN B1 and B2 channel.

Putting this attribute in static data allows this information to be preserved over a full initialization of the SM.

**Attribute:**
dcs_trk
**Fullname:**
Autoplex(R) trunk indicator
**Attribute Description:**
Indicates whether or not a trunk is Autoplex(R).

**Attribute:**
ccssdl_dtrk
**Fullname:**
dual Sdl/Voice port
**Attribute Description:**
This attribute is used to indicate if the port is a dual Signaling Data Link (SdL) and Digital Trunk port. This dual port is used for Automatic Allocation of Signaling Data Links and Terminals.

Note: Automatic Allocation of SdLs isn't allowed.

**Defines:**
"db/DMcarr_val.h",
"db/DMportindx.h",
"db/DMparty.h",
"db/DMport.h"

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# FC_TCITG

## 1. Description

Data associated with CAMA transfer trunks.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 8191 |
| expected number of tuples | 5 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
FC_TCITG    relid = 343   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL

     tgroup      DMGRUPNM     (ushort: 13)     <--- key, not stored
     otroffcode  DMCHAR3      (array [ 3 ] of char )
 (a) alertone    DMBOOL       (enum: 1)
 (b) signal      DMSIGTYPE    (enum: 1)
 (c) otrcamarpt  DMBOOL       (enum: 1)
        User and Compacted Tuple Layout   FC_TCITG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           |                                   |
  0 |          tgroup           |***********************************|
    |---------------+---------------+---------------+---------------|
    |                                               | | | |         |
  4 |                   otroffcode                  |a|b|c|*********|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     otroffcode  DMCHAR3      (array [ 3 ] of char )
 (a) alertone    DMBOOL       (enum: 1)
 (b) signal      DMSIGTYPE    (enum: 1)
 (c) otrcamarpt  DMBOOL       (enum: 1)
          Stored Tuple Layout     FC_TCITG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               | | | |         |
  0 |                   otroffcode                  |a|b|c|*********|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLfc_tcitg

**Relation Description** CAMA transfer trunks
Transfer CAMA incoming trunk group information.

**Attribute: tgroup**
**Fullname:** trunk group

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**Attribute Description** These are one way incoming trunk groups.

**Attribute: alertone**

**Fullname:** Alert Tone

**Attribute Description** This attribute will be used to determine whether to supply an alerting tone to the caller when the operator is attached.

```
DBYES - supply alert tone
DBNO  - no alert tone
```

**Attribute: signal**

**Fullname:** Signal type

**Attribute Description** This attribute is used to determine the signaling type.

**Attribute: otrcamarpt**

**Fullname:** Operator TRansmitt CAMA report

**Attribute Description** This attribute is used to indicate if an operator trouble report from a CAMA transfer office should be transmitted to the associated CAMA office.
DBYES - transmitt operator trouble report

**Attribute: otroffcode**

**Fullname:** Operator Trouble Report OFFice CODE

**Attribute Description** This attribute is used to hold the office codes to identify Operator Trouble Report.

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# FC_TDIRC

## 1. Description

Direct connect DNs for trunks.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 30 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
FC_TDIRC    relid = 575   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL

     port        DMGPORT      (struct)     <--- key
         member      DMGPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     dircon_dn   DMDN         (struct)     <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
            User Tuple Layout      FC_TDIRC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============  port ============+===============|
    |                                 |               |               |
  0 |              member              |***************|     module    |
    |===============+==========  dircon_dn ==========+===============|
    |       |       |                                                 |
  4 | digcnt|*******|                       dn                        |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
  8 |                               dn                                |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
 12 |                               dn                                |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
 16 |                               dn                                |
    |===============+===============+===============+===============|
       ( 20 bytes )
     port        DMGPORT      (struct)     <--- key
         member      DMGPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     dircon_dn   DMCDN        (struct)     <--- compacted
         dig8        DMUNS4       (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
         dig9        DMUNS4       (ushort: 4)
         dig1        DMUNS4       (ushort: 4)
         dig10       DMUNS4       (ushort: 4)
```

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```
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
         Compacted Tuple Layout   FC_TDIRC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============  port ============+===============|
    |                                |               |               |
  0 |             member             |***************|     module    |
    |===============+========== dircon_dn ==========+===============|
    |       |       |       |       |       |       |       |       |
  4 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
  8 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
    |===============+===============+===============+===============|
    |                                                                |
 12 |****************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                                |
 16 |****************************************************************|
    |---------------+---------------+---------------+---------------|
      ( 20 bytes )
    port        DMGPORT      (struct)     <--- key
        member      DMGPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    dircon_dn   DMCDN        (struct)     <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
          Stored Tuple Layout     FC_TDIRC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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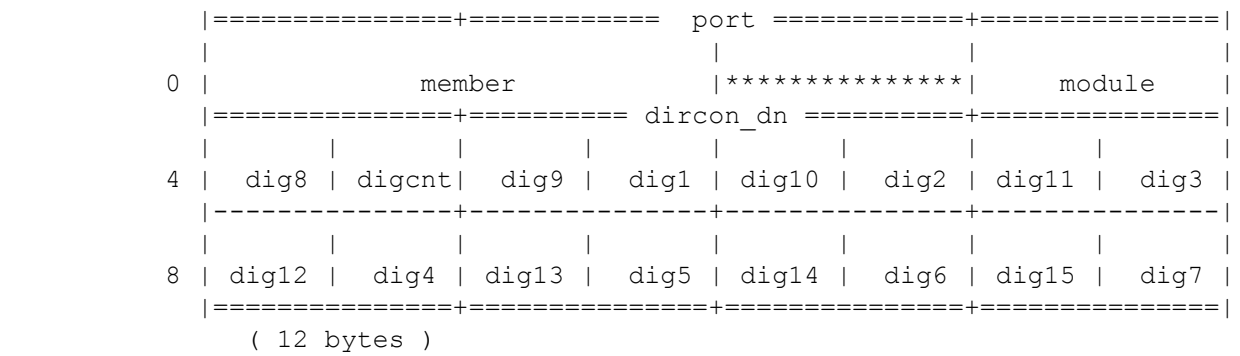


## 4. Population Rules for RLfc_tdirc

**Relation Description** Trunk Direct Connect.
Direct connect DNs for trunks. When a member of a trunk group goes off-hook, the directory number in this relation is used for origination. It is populated for every member of a trunk group.

**Attribute: port**

**Fullname:** Global port

**Attribute Description** This attribute is divided into sub-attributes port.member and port.module.

**Attribute: port.member**

**Fullname:** Global port member

**Attribute Description** This attribute specifies the logical number assigned to the port.

**Attribute: port.module**

**Fullname:** Global port module

**Attribute Description** This attribute specifies the Switching Module number where the port is located.

**Attribute: dircon_dn**

**Fullname:** Direct Connect Directory Number Structure

**Attribute Description** This attribute, Direct Connect Directory Number Structure, is referenced when the trunk goes off hook. The directory number is used for digit analysis and routing the call to its destination.

**Attribute: dircon_dn.digcnt**

**Fullname:** Direct Connect Directory Number Digit Count

**Attribute Description** This attribute specifies the total number of digits in the directory number.

**Attribute: dircon_dn.dn**

**Fullname:** Direct Connect Directory Number

**Attribute Description** This attribute specifies the actual directory number used when the trunk goes off-hook instead of waiting for the directory number to be received. For an incoming seizure-only intercept trunk (this can be seen by the class of service of FC_AISOA and an in_startsig of FCDIRCON), the direct connect directory number must be only one digit long: 6 for ONI regular, 7 for ONI blank, or 8 for ONI trouble.

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# FC_TMZN

## 1. Description

Time zone information by NPA for an OSPS.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
FC_TMZN     relid = 380   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL

     npa         DMUNS10      (ushort: 10)     <--- key
 (a) time_zone   DMTMZONE     (enum: 2)
 (b) exception   DMBOOL       (enum: 1)
         User and Compacted Tuple Layout    FC_TMZN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |   | |                                     |
 0  |        npa        | a |b|*************************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
     npa         DMUNS10      (ushort: 10)     <--- key
 (a) time_zone   DMTMZONE     (enum: 2)
 (b) exception   DMBOOL       (enum: 1)
           Stored Tuple Layout      FC_TMZN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |   | |                                     |
 0  |        npa        | a |b|*************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLfc_tmzn

**Relation Description** Time Zone info.
Time zone for information by NPA for an OSPS.

See also fc_nxxzn.

**Attribute: npa**

**Fullname:** NPA

**Attribute Description** Each NPA of this office that spans more than one time zone.

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**Attribute: time_zone**

**Fullname:** Time Zone

**Attribute Description** Time zone of the NPA-NXX. The valid values are:

```
OATZPRI_TIME, (same time as OSPS system time, primary time zone.)
OATZ1_ALT,    (time difference for alternate 1 time zone specified
               in Gla1zone.)
OATZ2_ALT,    (time difference for alternate 2 time zone specified
               in Gla2zone.)
```

**Attribute: exception**

**Fullname:** exception

**Attribute Description** exception. This NPA spans more than one time zone

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# FC_TRUNK

## 1. Description

This relation contains the feature data for trunks.

The tree diagram Figure 1 depicts the stored structure of virtual relation FC_TRUNK.

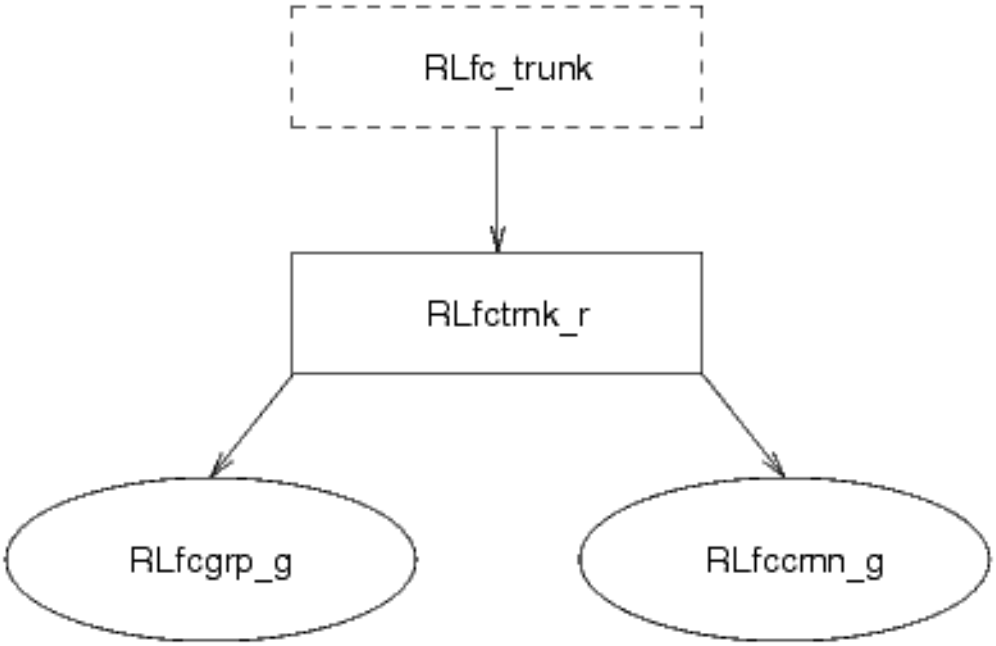


**Figure 1 Virtual Relation FC_TRUNK**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | FCtrk_trig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| spare space | 32l |

## 3. Field Layout

```
FC_TRUNK    relid = 35    DBSTATIC   DBACC_OPV   DBNOTODD  FP      NULL


    eonbill_dn  DMDN         (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
    port        DMGPORT      (struct)  <--- key, compacted
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    lport       DMLPORT      (ushort: 16)
    ccstrkidx   DMUSHORT     (ushort)
    trkgmbgid   DMUNS16      (ushort)
```

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```
    tgroup       DMGRUPNM     (ushort: 13)
    type         DMGRPTYPE    (enum: 3)
    screen_x     DMSCRNIDX    (ushort: 12)
(a) in_startsig  DMSTARTSIG   (enum: 4)
    unitnum      DMUNITNO     (ushort: 8)
    interf_id    DMUNS8       (ushort: 8)
    pbx_id       DMPBX_ID     (ushort: 12)
(b) mint_sig     DMMSIGTYPE   (enum: 3)
(c) glare        DMGLARE_ACTN (enum: 1)
    prigrp       DMPRIGRP     (ushort: 12)
(d) e911type     DME911TYPE   (enum: 4)
    insep        DMINSEP      (ushort: 8)
    trignum      DMUNS8       (ushort: 8)
    ct_trig      DMUNS8       (ushort: 8)
    digtree      DMDA_TREE    (ushort: 7)
(e) brc_trm      DMBOOL       (enum: 1)
    unitype      DMUNITTYPE   (enum: 7)
(f) idle_state   DMPORT_STATE (enum: 1)
(g) out_startsig  DMSTARTSIG   (enum: 4)
(h) vpa_type     DMVPA_TYPE   (enum: 4)
(i) hardware     DMFC_HWARE   (enum: 3)
(j) wb_rate      DMWB_RATE    (enum: 3)
(k) ln_type      DMLNTYPE     (enum: 2)
(l) rcd_3pt1_itc  DMRCD_3PT1   (enum: 2)
(m) wbtsa_type   DMWBTSA_TYPE (enum: 2)
(n) eon_plan     DMEON_PLAN   (enum: 2)
(o) ltm_type     DMLTM_TYPE   (enum: 1)
(p) cut_thru     DMBOOL       (enum: 1)
    esco         DMESCO       (ushort: 10)
(q) in_sigtype   DMDIGSIG     (enum: 5)
(r) rel_link_init  DMBOOL       (enum: 1)
    pci          DMPCIDX      (ushort: 10)
(s) out_sigtype  DMDIGSIG     (enum: 5)
(t) stop_go      DMBOOL       (enum: 1)
    fac_num      DMUNS17      (ulong: 17)
    apicode      DMUNS14      (ushort: 14)
(u) ani          DMBOOL       (enum: 1)
    lrn_das      DMDA_TREE    (ushort: 7)
    maxhopcnt    DMUNS5       (ushort: 5)
(v) acctprompt   DMACCTPR     (enum: 3)
(w) brc_dn       DMBOOL       (enum: 1)
(x) ani_type     DMUNS3       (ushort: 3)
(y) datarate     DMDATARATE   (enum: 2)
(z) fgdcicsz     DMSZFGD      (enum: 2)
(A) satellite    DMBOOL       (enum: 1)
(B) std_fxtie    DMFX_TIE     (enum: 2)
(C) mlppstage    DMMLPPST     (enum: 2)
(D) net_indicator  DMNIND       (enum: 2)
(E) pref_npa     DMPREF_NPA   (enum: 2)
(F) ctxid        DMCTXID      (enum: 2)
(G) ccs7_typ     DMCCS7_TYP   (enum: 1)
(H) utt          DMBOOL       (enum: 1)
(I) ffcf1        DMBOOL       (enum: 1)
(J) ffcf2        DMBOOL       (enum: 1)
```

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```
(K) ffcf3        DMBOOL       (enum: 1)
(L) ffcf4        DMBOOL       (enum: 1)
(M) ani6         DMBOOL       (enum: 1)
(N) ani7         DMBOOL       (enum: 1)
(O) noexinbnd    DMBOOL       (enum: 1)
(P) spbool1      DMBOOL       (enum: 1)
(Q) staggered    DMBOOL       (enum: 1)
(R) mai          DMMAI        (enum: 1)
(S) asptoll      DMBOOL       (enum: 1)
(T) far_e911     DMBOOL       (enum: 1)
(U) tdx_trk      DMBOOL       (enum: 1)
(V) term_bill    DMBOOL       (enum: 1)
(W) ani_proc     DMBOOL       (enum: 1)
(X) isupmld      DMBOOL       (enum: 1)
(Y) ported       DMBOOL       (enum: 1)
(Z) asp_carrtrig  DMBOOL        (enum: 1)
(a) vpn_access   DMBOOL       (enum: 1)
(b) queue_inh    DMBOOL       (enum: 1)
(c) dal_egress   DMBOOL       (enum: 1)
(d) spc_pbx      DMBOOL       (enum: 1)
(e) dal_access   DMBOOL       (enum: 1)
(f) passani      DMBOOL       (enum: 1)
(g) dnis_user    DMBOOL       (enum: 1)
(h) ct_for_dt    DMBOOL       (enum: 1)
(i) ldpsp1       DMBOOL       (enum: 1)
(j) ldpsp2       DMBOOL       (enum: 1)
    ltm_idxo     DMLTM_IDX    (ulong: 16)
    cic          DMCKT_CODE   (ushort: 14)
(k) time_flash   DMBOOL       (enum: 1)
(l) hold_busy    DMBOOL       (enum: 1)
(m) ext_guard    DMBOOL       (enum: 1)
(n) sdnded       DMBOOL       (enum: 1)
(o) sgd          DMBOOL       (enum: 1)
(p) ans_delay    DMBOOL       (enum: 1)
(q) unres_ea     DMBOOL       (enum: 1)
(r) pvnterm      DMBOOL       (enum: 1)
(s) privacy      DMBOOL       (enum: 1)
(t) cpn_rstrct   DMBOOL       (enum: 1)
(u) chg_rstrct   DMBOOL       (enum: 1)
(v) uuiic_rstrct  DMBOOL        (enum: 1)
(w) atpic_rstrct  DMBOOL        (enum: 1)
(x) cfn_rstrct   DMBOOL       (enum: 1)
(y) lsdel_ans    DMBOOL       (enum: 1)
(z) ffcf5        DMBOOL       (enum: 1)
(A) ffcf6        DMBOOL       (enum: 1)
(B) ffcf7        DMBOOL       (enum: 1)
(C) ln_virt_on   DMBOOL       (enum: 1)
(D) cama_psap    DMBOOL       (enum: 1)
(E) rdta_port    DMBOOL       (enum: 1)
(F) asi_use      DMBOOL       (enum: 1)
(G) cont_test    DMBOOL       (enum: 1)
(H) spbool2      DMBOOL       (enum: 1)
(I) mltislcopt   DMBOOL       (enum: 1)
(J) enh_psap_sig  DMBOOL        (enum: 1)
```

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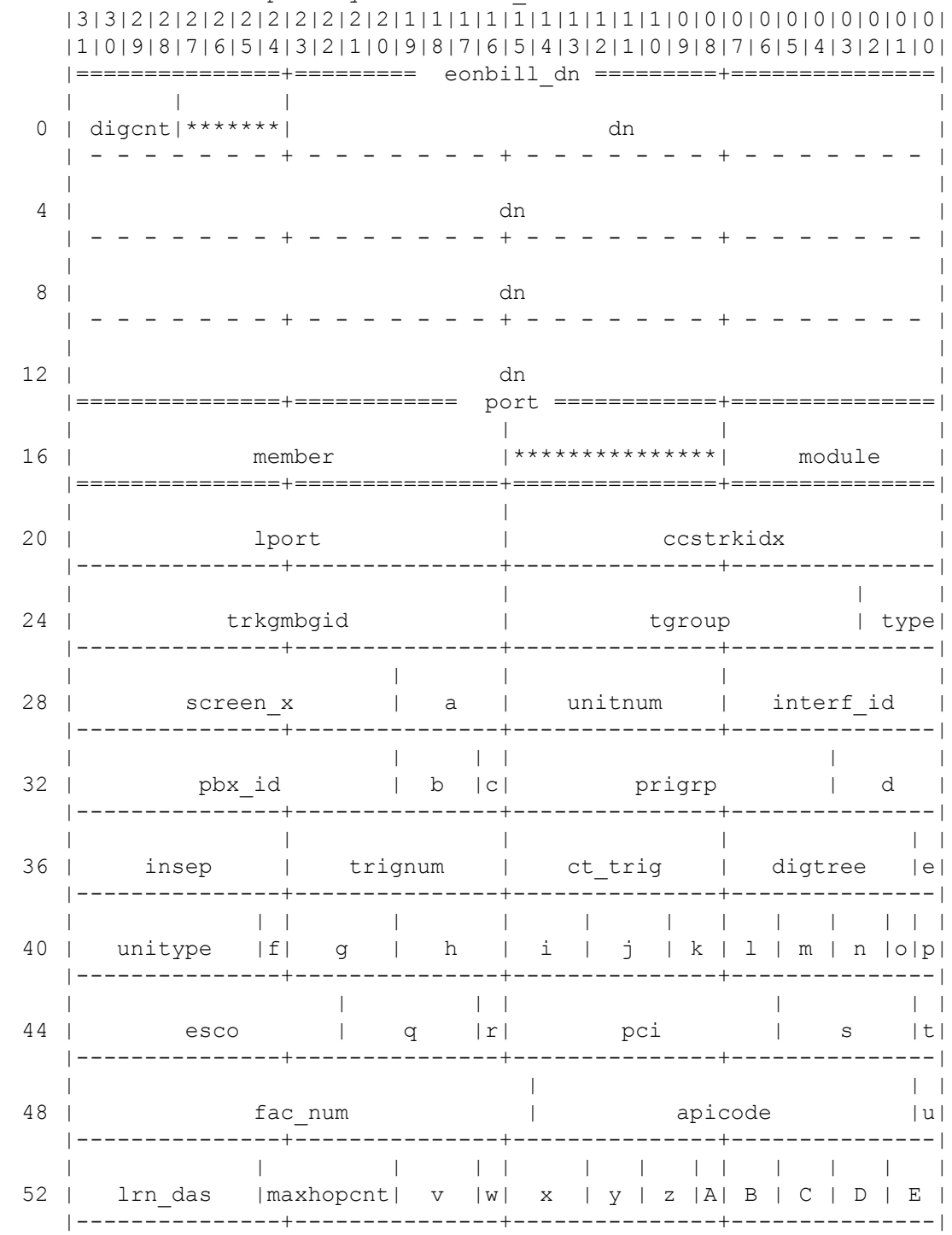
```
(K) tendigonly  DMBOOL       (enum: 1)
(L) eonpriv_ind  DMBOOL       (enum: 1)
(M) eonpref_ind  DMBOOL       (enum: 1)
(N) ldpsp3      DMBOOL       (enum: 1)
(O) mbg_trans   DMBOOL       (enum: 1)
(P) inhibit_del  DMBOOL       (enum: 1)
    member      DMMEM        (ushort: 12)
    cal_state   DMCALTRUNK   (enum)
```

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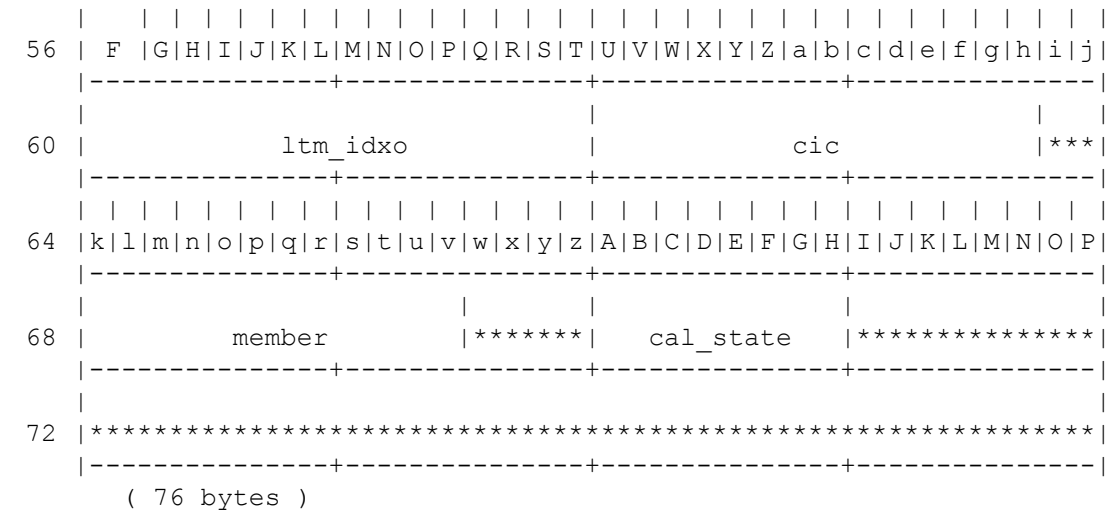


```
    eonbill_dn  DMDN          (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
    port        DMPORT        (ushort)  <--- key, compacted
    lport       DMLPORT       (ushort: 16)
    ccstrkidx   DMUSHORT      (ushort)
    trkgmbgid   DMUNS16       (ushort)
    tgroup      DMGRUPNM      (ushort: 13)
    type        DMGRPTYPE     (enum: 3)
    screen_x    DMSCRNIDX     (ushort: 12)
(a) in_startsig  DMSTARTSIG    (enum: 4)
    unitnum     DMUNITNO      (ushort: 8)
    interf_id   DMUNS8        (ushort: 8)
    pbx_id      DMPBX_ID      (ushort: 12)
(b) mint_sig    DMMSIGTYPE    (enum: 3)
(c) glare       DMGLARE_ACTN  (enum: 1)
    prigrp      DMPRIGRP      (ushort: 12)
(d) e911type    DME911TYPE    (enum: 4)
    insep       DMINSEP       (ushort: 8)
    trignum     DMUNS8        (ushort: 8)
    ct_trig     DMUNS8        (ushort: 8)
    digtree     DMDA_TREE     (ushort: 7)
(e) brc_trm     DMBOOL        (enum: 1)
    unitype     DMUNITTYPE    (enum: 7)
(f) idle_state  DMPORT_STATE  (enum: 1)
(g) out_startsig  DMSTARTSIG    (enum: 4)
(h) vpa_type    DMVPA_TYPE    (enum: 4)
(i) hardware    DMFC_HWARE    (enum: 3)
(j) wb_rate     DMWB_RATE     (enum: 3)
(k) ln_type     DMLNTYPE      (enum: 2)
(l) rcd_3pt1_itc  DMRCD_3PT1    (enum: 2)
(m) wbtsa_type  DMWBTSA_TYPE  (enum: 2)
(n) eon_plan    DMEON_PLAN    (enum: 2)
(o) ltm_type    DMLTM_TYPE    (enum: 1)
(p) cut_thru    DMBOOL        (enum: 1)
    esco        DMESCO        (ushort: 10)
```

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```
(q) in_sigtype  DMDIGSIG     (enum: 5)
(r) rel_link_init  DMBOOL       (enum: 1)
    pci         DMPCIDX      (ushort: 10)
(s) out_sigtype  DMDIGSIG     (enum: 5)
(t) stop_go     DMBOOL       (enum: 1)
    fac_num     DMUNS17      (ulong: 17)
    apicode     DMUNS14      (ushort: 14)
(u) ani         DMBOOL       (enum: 1)
    lrn_das     DMDA_TREE    (ushort: 7)
    maxhopcnt   DMUNS5       (ushort: 5)
(v) acctprompt  DMACCTPR     (enum: 3)
(w) brc_dn      DMBOOL       (enum: 1)
(x) ani_type    DMUNS3       (ushort: 3)
(y) datarate    DMDATARATE   (enum: 2)
(z) fgdcicsz    DMSZFGD      (enum: 2)
(A) satellite   DMBOOL       (enum: 1)
(B) std_fxtie   DMFX_TIE     (enum: 2)
(C) mlppstage   DMMLPPST     (enum: 2)
(D) net_indicator  DMNIND       (enum: 2)
(E) pref_npa    DMPREF_NPA   (enum: 2)
(F) ctxid       DMCTXID      (enum: 2)
(G) ccs7_typ    DMCCS7_TYP   (enum: 1)
(H) utt         DMBOOL       (enum: 1)
(I) ffcf1       DMBOOL       (enum: 1)
(J) ffcf2       DMBOOL       (enum: 1)
(K) ffcf3       DMBOOL       (enum: 1)
(L) ffcf4       DMBOOL       (enum: 1)
(M) ani6        DMBOOL       (enum: 1)
(N) ani7        DMBOOL       (enum: 1)
(O) noexinbnd   DMBOOL       (enum: 1)
(P) spbool1     DMBOOL       (enum: 1)
(Q) staggered   DMBOOL       (enum: 1)
(R) mai         DMMAI        (enum: 1)
(S) asptoll     DMBOOL       (enum: 1)
(T) far_e911    DMBOOL       (enum: 1)
(U) tdx_trk     DMBOOL       (enum: 1)
(V) term_bill   DMBOOL       (enum: 1)
(W) ani_proc    DMBOOL       (enum: 1)
(X) isupmld     DMBOOL       (enum: 1)
(Y) ported      DMBOOL       (enum: 1)
(Z) asp_carrtrig  DMBOOL       (enum: 1)
(a) vpn_access  DMBOOL       (enum: 1)
(b) queue_inh   DMBOOL       (enum: 1)
(c) dal_egress  DMBOOL       (enum: 1)
(d) spc_pbx     DMBOOL       (enum: 1)
(e) dal_access  DMBOOL       (enum: 1)
(f) passani     DMBOOL       (enum: 1)
(g) dnis_user   DMBOOL       (enum: 1)
(h) ct_for_dt   DMBOOL       (enum: 1)
(i) ldpsp1      DMBOOL       (enum: 1)
(j) ldpsp2      DMBOOL       (enum: 1)
    ltm_idxo    DMLTM_IDX    (ulong: 16)
    cic         DMCKT_CODE   (ushort: 14)
(k) time_flash  DMBOOL       (enum: 1)
```

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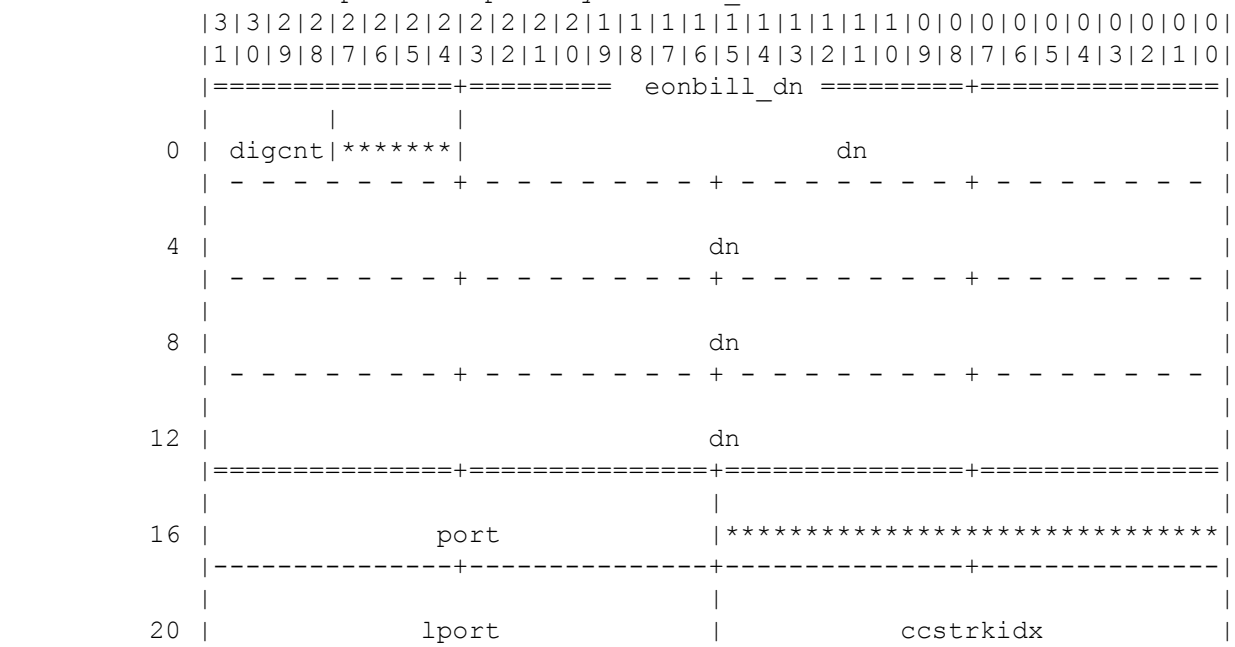
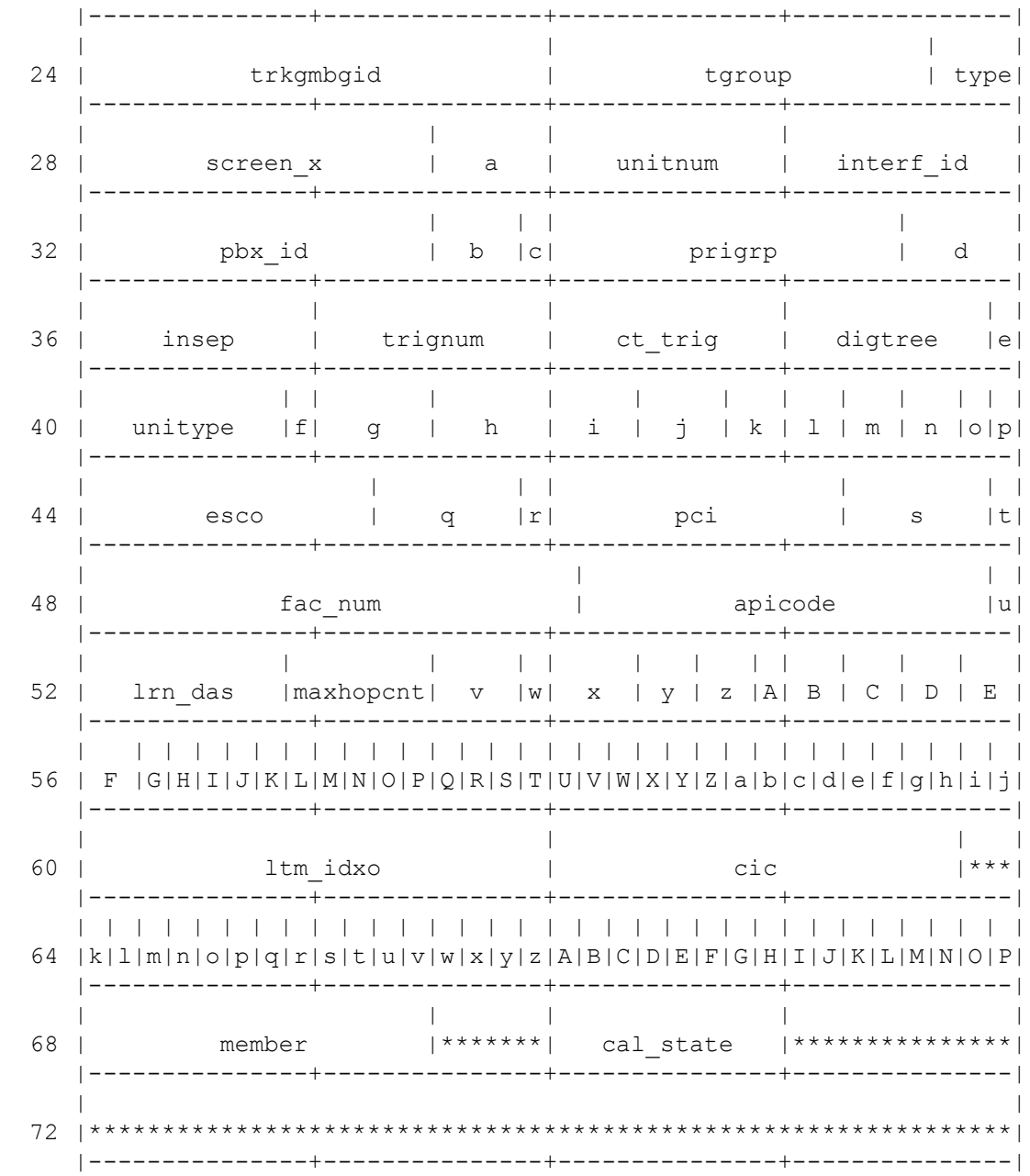
```
(l) hold_busy   DMBOOL       (enum: 1)
(m) ext_guard   DMBOOL       (enum: 1)
(n) sdnded      DMBOOL       (enum: 1)
(o) sgd         DMBOOL       (enum: 1)
(p) ans_delay   DMBOOL       (enum: 1)
(q) unres_ea    DMBOOL       (enum: 1)
(r) pvnterm     DMBOOL       (enum: 1)
(s) privacy     DMBOOL       (enum: 1)
(t) cpn_rstrct  DMBOOL       (enum: 1)
(u) chg_rstrct  DMBOOL       (enum: 1)
(v) uuiic_rstrct  DMBOOL       (enum: 1)
(w) atpic_rstrct  DMBOOL       (enum: 1)
(x) cfn_rstrct  DMBOOL       (enum: 1)
(y) lsdel_ans   DMBOOL       (enum: 1)
(z) ffcf5       DMBOOL       (enum: 1)
(A) ffcf6       DMBOOL       (enum: 1)
(B) ffcf7       DMBOOL       (enum: 1)
(C) ln_virt_on  DMBOOL       (enum: 1)
(D) cama_psap   DMBOOL       (enum: 1)
(E) rdta_port   DMBOOL       (enum: 1)
(F) asi_use     DMBOOL       (enum: 1)
(G) cont_test   DMBOOL       (enum: 1)
(H) spbool2     DMBOOL       (enum: 1)
(I) mltislcopt  DMBOOL       (enum: 1)
(J) enh_psap_sig  DMBOOL       (enum: 1)
(K) tendigonly  DMBOOL       (enum: 1)
(L) eonpriv_ind  DMBOOL       (enum: 1)
(M) eonpref_ind  DMBOOL       (enum: 1)
(N) ldpsp3      DMBOOL       (enum: 1)
(O) mbg_trans   DMBOOL       (enum: 1)
(P) inhibit_del  DMBOOL       (enum: 1)
    member      DMMEM        (ushort: 12)
    cal_state   DMCALTRUNK   (enum)
```

Compacted Tuple Layout FC_TRUNK






```
    eonbill_dn  DMDN         (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
    port        DMPORT       (ushort)  <--- key, compacted
    lport       DMLPORT      (ushort: 16)
    ccstrkidx   DMUSHORT     (ushort)
    trkgmbgid   DMUNS16      (ushort)
    tgroup      DMGRUPNM     (ushort: 13)
    type        DMGRPTYPE    (enum: 3)
    screen_x    DMSCRNIDX    (ushort: 12)
(a) in_startsig  DMSTARTSIG   (enum: 4)
```

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```
    unitnum     DMUNITNO     (ushort: 8)
    interf_id   DMUNS8       (ushort: 8)
    pbx_id      DMPBX_ID     (ushort: 12)
(b) mint_sig    DMMSIGTYPE   (enum: 3)
(c) glare       DMGLARE_ACTN (enum: 1)
    prigrp      DMPRIGRP     (ushort: 12)
(d) e911type    DME911TYPE   (enum: 4)
    insep       DMINSEP      (ushort: 8)
    trignum     DMUNS8       (ushort: 8)
    ct_trig     DMUNS8       (ushort: 8)
    digtree     DMDA_TREE    (ushort: 7)
(e) brc_trm     DMBOOL       (enum: 1)
    unitype     DMUNITTYPE   (enum: 7)
(f) idle_state  DMPORT_STATE (enum: 1)
(g) out_startsig  DMSTARTSIG   (enum: 4)
(h) vpa_type    DMVPA_TYPE   (enum: 4)
(i) hardware    DMFC_HWARE   (enum: 3)
(j) wb_rate     DMWB_RATE    (enum: 3)
(k) ln_type     DMLNTYPE     (enum: 2)
(l) rcd_3pt1_itc  DMRCD_3PT1   (enum: 2)
(m) wbtsa_type  DMWBTSA_TYPE (enum: 2)
(n) eon_plan    DMEON_PLAN   (enum: 2)
(o) ltm_type    DMLTM_TYPE   (enum: 1)
(p) cut_thru    DMBOOL       (enum: 1)
    esco        DMESCO       (ushort: 10)
(q) in_sigtype  DMDIGSIG     (enum: 5)
(r) rel_link_init  DMBOOL       (enum: 1)
    pci         DMPCIDX      (ushort: 10)
(s) out_sigtype  DMDIGSIG     (enum: 5)
(t) stop_go     DMBOOL       (enum: 1)
    fac_num     DMUNS17      (ulong: 17)
    apicode     DMUNS14      (ushort: 14)
(u) ani         DMBOOL       (enum: 1)
    lrn_das     DMDA_TREE    (ushort: 7)
    maxhopcnt   DMUNS5       (ushort: 5)
(v) acctprompt  DMACCTPR     (enum: 3)
(w) brc_dn      DMBOOL       (enum: 1)
(x) ani_type    DMUNS3       (ushort: 3)
(y) datarate    DMDATARATE   (enum: 2)
(z) fgdcicsz    DMSZFGD      (enum: 2)
(A) satellite   DMBOOL       (enum: 1)
(B) std_fxtie   DMFX_TIE     (enum: 2)
(C) mlppstage   DMMLPPST     (enum: 2)
(D) net_indicator  DMNIND       (enum: 2)
(E) pref_npa    DMPREF_NPA   (enum: 2)
(F) ctxid       DMCTXID      (enum: 2)
(G) ccs7_typ    DMCCS7_TYP   (enum: 1)
(H) utt         DMBOOL       (enum: 1)
(I) ffcf1       DMBOOL       (enum: 1)
(J) ffcf2       DMBOOL       (enum: 1)
(K) ffcf3       DMBOOL       (enum: 1)
(L) ffcf4       DMBOOL       (enum: 1)
(M) ani6        DMBOOL       (enum: 1)
(N) ani7        DMBOOL       (enum: 1)
```

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```
(O) noexinbnd   DMBOOL       (enum: 1)
(P) spbool1     DMBOOL       (enum: 1)
(Q) staggered   DMBOOL       (enum: 1)
(R) mai         DMMAI        (enum: 1)
(S) asptoll     DMBOOL       (enum: 1)
(T) far_e911    DMBOOL       (enum: 1)
(U) tdx_trk     DMBOOL       (enum: 1)
(V) term_bill   DMBOOL       (enum: 1)
(W) ani_proc    DMBOOL       (enum: 1)
(X) isupmld     DMBOOL       (enum: 1)
(Y) ported      DMBOOL       (enum: 1)
(Z) asp_carrtrig  DMBOOL       (enum: 1)
(a) vpn_access  DMBOOL       (enum: 1)
(b) queue_inh   DMBOOL       (enum: 1)
(c) dal_egress  DMBOOL       (enum: 1)
(d) spc_pbx     DMBOOL       (enum: 1)
(e) dal_access  DMBOOL       (enum: 1)
(f) passani     DMBOOL       (enum: 1)
(g) dnis_user   DMBOOL       (enum: 1)
(h) ct_for_dt   DMBOOL       (enum: 1)
(i) ldpsp1      DMBOOL       (enum: 1)
(j) ldpsp2      DMBOOL       (enum: 1)
    ltm_idxo    DMLTM_IDX    (ulong: 16)
    cic         DMCKT_CODE   (ushort: 14)
(k) time_flash  DMBOOL       (enum: 1)
(l) hold_busy   DMBOOL       (enum: 1)
(m) ext_guard   DMBOOL       (enum: 1)
(n) sdnded      DMBOOL       (enum: 1)
(o) sgd         DMBOOL       (enum: 1)
(p) ans_delay   DMBOOL       (enum: 1)
(q) unres_ea    DMBOOL       (enum: 1)
(r) pvnterm     DMBOOL       (enum: 1)
(s) privacy     DMBOOL       (enum: 1)
(t) cpn_rstrct  DMBOOL       (enum: 1)
(u) chg_rstrct  DMBOOL       (enum: 1)
(v) uuiic_rstrct  DMBOOL       (enum: 1)
(w) atpic_rstrct  DMBOOL       (enum: 1)
(x) cfn_rstrct  DMBOOL       (enum: 1)
(y) lsdel_ans   DMBOOL       (enum: 1)
(z) ffcf5       DMBOOL       (enum: 1)
(A) ffcf6       DMBOOL       (enum: 1)
(B) ffcf7       DMBOOL       (enum: 1)
(C) ln_virt_on  DMBOOL       (enum: 1)
(D) cama_psap   DMBOOL       (enum: 1)
(E) rdta_port   DMBOOL       (enum: 1)
(F) asi_use     DMBOOL       (enum: 1)
(G) cont_test   DMBOOL       (enum: 1)
(H) spbool2     DMBOOL       (enum: 1)
(I) mltislcopt  DMBOOL       (enum: 1)
(J) enh_psap_sig  DMBOOL       (enum: 1)
(K) tendigonly  DMBOOL       (enum: 1)
(L) eonpriv_ind  DMBOOL       (enum: 1)
(M) eonpref_ind  DMBOOL       (enum: 1)
(N) ldpsp3      DMBOOL       (enum: 1)
```

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```
(O) mbg_trans   DMBOOL       (enum: 1)
(P) inhibit_del  DMBOOL       (enum: 1)
    member      DMMEM        (ushort: 12)
    cal_state   DMCALTRUNK   (enum)
          Stored Tuple Layout     FC_TRUNK
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+=========  eonbill_dn =========+===============|
   |       |       |                                               |
 0 | digcnt|*******|                      dn                       |
   | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 4 |                               dn                              |
   | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 8 |                               dn                              |
   | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
12 |                               dn                              |
   |===============+===============+===============+===============|
   |                               |                               |
16 |              port             |*******************************|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |             lport             |            ccstrkidx          |
   |---------------+---------------+---------------+---------------|
   |                               |                          |    |
24 |           trkgmbgid           |          tgroup          | type|
   |---------------+---------------+---------------+---------------|
   |                       |       |               |               |
28 |        screen_x       |   a   |    unitnum    |   interf_id   |
   |---------------+---------------+---------------+---------------|
   |                       |     | |                       |       |
32 |         pbx_id        |  b  |c|         prigrp        |   d   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |            | |
36 |     insep     |    trignum    |    ct_trig    |   digtree  |e|
   |---------------+---------------+---------------+---------------|
   |             | |       |       |     |     |   |   |   |   | | |
40 |   unitype   |f|   g   |   h   |  i  |  j  | k | l | m | n |o|p|
   |---------------+---------------+---------------+---------------|
   |                   |         | |                       |       | |
44 |        esco       |    q    |r|        pci            |   s   |t|
   |---------------+---------------+---------------+---------------|
   |                               |                           | |
48 |             fac_num           |          apicode          |u|
   |---------------+---------------+---------------+---------------|
   |             |         |     | |     |   |   | |   |   |   |   |
52 |   lrn_das   |maxhopcnt|  v  |w|  x  | y | z |A| B | C | D | E |
   |---------------+---------------+---------------+---------------|
   |   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
56 | F |G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z|a|b|c|d|e|f|g|h|i|j|
   |---------------+---------------+---------------+---------------|
   |                               |                           |   |
```

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```
 60 |            ltm_idxo           |            cic            |***|
    |---------------+---------------+---------------+---------------|
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 64 |k|l|m|n|o|p|q|r|s|t|u|v|w|x|y|z|A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|P|
    |---------------+---------------+---------------+---------------|
    |                         |       |               |               |
 68 |         member          |*******|   cal_state   |***************|
    |---------------+---------------+---------------+---------------|
       ( 72 bytes )
```

## 4. Population rules for RLfc_trunk

### Relation Description

Feature data for trunks.

Feature data for trunks.

"Note: This relation does not include any PRL crosscheck for EXPORT.

```
**********************************************************************
*
* Application Specific poprules for Remote Digital Test Access
*     (RDTA) ports
*
* The 5e7 Remote Digital Test Access (RDTA) capability allows for
* ports to be equipped either on an Access Switch or a Remote
* Switch using either a Pseudo BRI port or an EDSL PRI port.
* Refer to the poprules in RLdn_rdta for more details.
*
* TUPLE SEMANTICS
* ---------------
* The following RLfc_trunk attributes are applicable for EDSL PRI
* B-Channel use only (RPA does not use EDSL D-Channel for data
* transmission).  The servclass in RLfc_porttyp must equal FCEDSL
* and the trunk must either be out going or two way (incoming
* trunks not supported by RPA).  Two way trunks may be either
* incoming or outgoing.  All the attributes not listed shall use
* their default values according to EDSL defaults.
*
* OUTGOING EDSL TRUNKS:
* ---------------------
* port  RPA gport populated in RLdn_rdta, RLgroup_port, RLpggpmap
* lport 0
* in_sigtype    DBNOSIG
* out_sigtype   DBDCHAN
* digtree       0 (not used)
* in_startsig   FCSSNULL
* out_startsig  FCSSNULL
* idle_state    DBON_HOOK
* glare GL_CONTROL
* hardware      FC_EM2
* type  RTOUTGO
```

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```
* screen_x      0 (not used)
* pbx_id        0
* stop_go       DBNO
* brc_trm       DBNO
* brc_dn        DBNO
* cut_thru      DBNO
* satellite     DBNO
* datarate      DBDATA_64K, DBDATA_R64K or DBDATA_56K
* ltm_type      LTM_OTHER
* rdta_port     DBYES
*
* TWO WAY EDSL TRUNKS:
* --------------------
* port  RPA gport populated in RLdn_rdta, RLgroup_port, RLpggpmap
* lport 0
* in_sigtype    DBDCHAN
* out_sigtype   DBDCHAN
* digtree       > 0 (Must be valid digtree for office EDSL trunks)
* in_startsig   FCSSNULL
* out_startsig  FCSSNULL
* idle_state    DBON_HOOK
* glare GL_CONTROL
* hardware      FC_EM2
* type  RTTWOWAY
* screen_x      > 0 (Must be valid screen_x for office EDSL trunks)
* pbx_id        0
* stop_go       DBNO
* brc_trm       DBNO
* brc_dn        DBNO
* cut_thru      DBNO
* satellite     DBNO
* datarate      DBDATA_64K, DBDATA_R64K or DBDATA_56K
* ltm_type      LTM_OTHER
* rdta_port     DBYES
**********************************************************************

RETROFIT RULES
FROM - 5E8
TO - 5E9(1)

The following text is supported by pop rules in this file
and in the population rules for RLprigrp.

Prior to 5E9(1), all D and B channels of an EDSL (also called
a PRI were populated in the RLedsldchn relation. The retrofit
to 5E9(1) will assign D-channels of class EDSL and B-channels
of class EDSL and EDSLHM to PRI groups. D and B channel
assignment data will no longer be populated in RLedsldchn.
It will be moved to new PRI group relations defined for 5E9(1).
Thus any tuples in this RLfc_trunk relation for PRI trunks
(D or B channels) will have to be populated with the PRI group
(prigrp attribute) and interface ID (interf_id attribute)
assigned to the trunk.
"
```

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**Attribute:**
port
**Fullname:**
Port.
**Attribute Description:**
This attribute is divided into sub-attributes port.member and port.module. Members is the port name of a trunk. Module refers to the Interface Module number, possibilities are from 1 to 192.

**Attribute:**
port.member
**Fullname:**
Member.
**Attribute Description:**
Port member.

**Attribute:**
port.module
**Fullname:**
Module.
**Attribute Description:**
Port module.

**Attribute:**
lport
**Fullname:**
Logical port.
**Attribute Description:**
This attribute defines the logical port number for this trunk and is used as part of the key to access relations associated with terminal assignable BRCS features. It is a sequential key administered per SM. It is an RC/ODA assigned value, within the range for lpt_type = LPT_OTHER.
If brc_trm=DBNO, lport = 0, if brc_trm=DBYES, lport > 0.

For each tuple in RLfc_trunk, verify a corresponding tuple in RLlpt_pt(RLfc_trunk.lport, lpt_type=LPT_OTHER) where RLlpt_pt.port = RLfc_trunk.port.member and RLlpt_port.party = FCP_TRUNK.

All lines (analog and ISDN) and BRCS trunks are assigned lports, although the ISDN and analog lport values will be tracked and assigned separately to conserve memory as is currently done with logical termination indexes. In the case of multi-party service, or multipoint DSL, each user will have an

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associated unique lport/lpt_type value.

lport values are assigned in new offices so that the assigned numbers are at the low end of 1-8191 range with no holes. Recent Change deletions will create holes in the spectrum of assigned numbers. These holes are recorded in RLrc_alphol. lport assignments must be retained across all offline ODA processes.

**Attribute:**
in_sigtype
**Fullname:**
incoming address signaling mode.
**Attribute Description:**
If this is an incoming trunk or two way trunk use enumerations DBDP, DBMF or DBCCIS6, DBTUP7, or DBISUP7 for CCS trunks depending on the signaling type of the trunk. Enumeration DBTT may also be used on incoming and two way trunks if the trunk class of service is FC_PF, FC_PFLASH, FC_PFITT, FC_TTOLL_CONN, or FC_LTOLL_CONN. If this is an incoming or two way trunk with servclass = FCEDSL or FCEDSLHM, or an ISDN link trunk with servclass = FCEDSL use enumeration DBDCHAN (See FC_TRUNK EDSL pop rules). If this is an outgoing trunk use enumeration DBNOSIG. If this is an RP trunk, use DBRP_EO or DBRP_TO. RP trunks can be incoming or outgoing, not two-way. If this is a two-way CCS trunk, in_sigtype and out_sigtype must be the same.

For export, DBCCIS6 and DBISUP7 are not valid values.

For domestic, DBTUP7 is not a valid value.

Additional rules for Export: if trunk uses MFC address signaling, this should be DBMFC_V1, _V2, _V3, or _V4. See rules for relation RLsndfwd for more details. If this is a two way MFC trunk, in_sigtype must be the same as out_sigtype.

Export CCS has defined a new dfimode = 'SMCCSHDB3' If the circuit defined for this trunk is assigned this new dfimode then the in_sigtype can only be:

DBTUP7 or DBISUP7

For SMs with Glconfigname = D_BASIC, DBCCIS6 is not a valid value.

**Attribute:**

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out_sigtype

**Fullname:**

outgoing address signaling mode

**Attribute Description:**

Outgoing or two way trunks use an enumeration of DBDP, DBMF, or DBCCIS6, DBTUP7 or DBISUP7 for CCS trunks. Outgoing, two way, or ISDN link trunks with servclass = FCEDSL and two way trunks with servclass = FCEDSLHM use enumeration DBDCHAN (See FC_TRUNK EDSL pop rules). Incoming trunks use DBNOSIG.
For Office to Office (OTO) Outgoing test trunks over non-CCS (where CCS is DBCCIS6, DBTUP7 or DBISUP7) trunks (service class is TM_OTOTK), the out_startsig should be FCIMMED if OTO test trunk interface with Step by Step offices, and the out_startsig should be FCWINK when OTO test trunk interfaces with Crossbar offices or ESSs.
If this is an RP trunk, use DBRP_EO or DBRP_TO.
RP trunks can be incoming or outgoing, not two-way.

For export, DBCCIS6 and DBISUP7 are not valid values.

For domestic, DBTUP7 is not a valid value.

If this is an outgoing trunk to the AUTOVON network with a service class of FC_LTOLL_CONN, then out_sigtype must be set to DBTT. A trunk to the AUTOVON network will have a tuple in RLpp_trunk such that:
key RLpp_trunk.port == port.

DBNOSIG is allowed for FC_LTOLL_CONN service class for one-way outgoing trunk to a DCSS conference bridge.
( ODA must allow DBNOSIG for FC_LTOLL_CONN service class. One way outgoing to a DCSS conference bridge can not be determined from the database. )

If this is a two-way CCS trunk, in_sigtype and out_sigtype must be the same.

If class of service = FC_TTOLL_CONN, and this is a one-way outgoing trunk, out_sigtype can have the value DBTT, DBMF, DBDP, DBISUP7 or DBNOSIG. DBNOSIG is used when connecting to a DCSS conference bridge.
( ODA must allow DBNOSIG for FC_LTOLL_CONN service class. One way outgoing to a DCSS conference bridge can not be determined from the database. )

If class of service = FC_TTOLL_CONN, and this is a two-way trunk, out_sigtype can have the value DBDP, DBMF, DBTT, DBCCIS6 or DBISUP7.

Additional rules for Export: if trunk uses MFC address signaling, this should be DBMFC_V1, _V2, _V3, or _V4. See rules

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for relation RLsndfwd for more details. If this is a two way MFC trunk, in_sigtype must be the same as out_sigtype.

Export CCS has defined a new dfimode = 'SMCCSHDB3'
If the circuit defined for this trunk is assigned this new dfimode then the out_sigtype can only be:

DBTUP7 or DBISUP7

For SMs with Glconfigname = D_BASIC,
DBCCIS6 is not a valid value.

If class of service = FC_AIS (Interface to Intercept Systems) then signaling type for the trunk must be DBMF. Thus, entry of other signaling types must no be allowed.

**Attribute:**
digtree
**Fullname:**
Digit analysis tree.
**Attribute Description:**
Incoming and two way trunks are assigned a table identifier which tells where to start interpreting the digits received in the relation DAPRELDGT. An outgoing trunk is populated with a zero.
An EDSL D channel trunk is populated with a zero.

The following rule is a matter of policy and is not intended to be enforced by software:
If the in_sigtype is DBCCIS6 or DBISUP7, the primary digit table for this trunk (as indicated in RLda_digstrt) must contain the 100, 101xx, 102, 104, and 105 digit strings with a corresponding destination type of FCTLNACC.

```
Dependency:
If != 0, verify existence of tuple in RLrc_das
such that:
    RLrc_das.digtree = digtree
Also,
If (servclass == FC_PF || servclass == FC_PFLASH
  || servclass == FCEDSL || servclass == FCEDSLHM
                || servclass == FC_PFITT)
    RLrc_das.pdit != 0 or
    RLrc_das.indit != 0
Else
    RLrc_das.pdit = 0, RLrc_das.indit !=0.

    RC/V Constraint/Crosscheck
    --------------------------
```

A digit analysis table identifier (DAS) can only be assigned to a port if (1) it is a valid DAS, and (2) if the DAS is currently assigned (that is, the LDIT for the DAS is populated) to the SM that owns the port. To determine if the DAS is assigned to the

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```
SM that owns the port, check RLDB_AMGPD with:
    grp_type = GPD_DA
    grp_id = 'digtree'
The attributes 'pcr_map1' through 'pcr_map7' represent a
processor bit map.  The bit position corresponding to the SM no.
that owns the port (that is, 'port.module') should be set to a 1.
If a DAS is not assigned to a SM, that DAS cannot be assigned
to any port in that SM.

When Glapsdn is set to DBYES (this is an Action
Point (ACP) in the Software Defined Network),
then digtree of 88 is NOT allowed to be assigned
to any trunk (digtree must not be 88).
The reason for this is, at an ACP, there must be
some trunks that have their sdnded attribute set
to DBYES.  When a call arriving at an ACP using
one of these trunks (sdnded == DBYES), the reserved
digtree of 88 will be used by call processing
to enter digit analysis to determine if a query is
to be sent to a remote database for routing
instruction for the associated call.  Only in the
case where routing instruction from the remote data
base instructs the ACP to route the associated call
via POTS domain, the original digtree assigned to this
trunk (!= 88) will be used.
```

**Attribute:**

```
in_startsig
```

**Fullname:**

```
incoming start signal type.
```

**Attribute Description:**

```
Incoming start signal type.  Outgoing trunks receive an
enumeration of FCSSNULL.
        In 5E1(2)3 incoming trunks which are direct connect will
        receive an enumeration of FCSSNULL.
Set to FCFXGRND for FX port using ground start supervision.
Set to FCFXLOOP for FX port using loop start supervision.
Dependency:
If == FCFXGRND, rlFC_PORTTYP.lptyp = PCFXGRND
If == FCFXLOOP, rlFC_PORTTYP.lptyp = PCFXLOOP
        if == FCDIRCON && rlRT_TRKG.rlt_type == RLT_PERM,
           rlFC_PORTTYP.lp_type = PCFXGRND

        if == FCDIRCON && rlRT_TRKG.rlt_type == RLT_TEMP,
           rlFC_PORTTYP.lp_type = PCFXGRND

For Export, if port type is FC_TOLL_OPER or FC_BSYVFY then
the value of in_startsig should be FCIMMED for a ROK load.

All CCS trunks should be set to FCSSNULL.

Trunks with service class of FCEDSL and FCEDSLHM should be set
to FCSSNULL.
```

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```
        Incoming revertive pulsing trunks should have an
        in_startsig of FCIMMED.


        For incoming or 2 way trunks,
        if in_startsig==FCDIRCON,
        then verify that rlRCTGRPRK.DBNO has been populated
                For 5e5(1) CAS/RLT the following must be followed for
                in_startsig=FCDIRCON.

                if rlFC_TRKG.rlt_type == RLT_PERM,
                   rlFC_PORTTYP.lp_type = PCFXGRND

                if rlFC_TRKG.rlt_type == RLT_TEMP,
                   rlFC_PORTTYP.lp_type = PCFXGRND
        (that is, !=0).  Populate rlFC_TDIRC such that:
            rlFC_TDIRC.port = rlFC_TRUNK.port
            rlFC_TDIRC.dircon_dn = rlRCTGRPRK.DBNO

        Domain value FCWNKDTONE is valid only
        for RLfc_porttyp.servclass =
        FC_TTOLL_CONN, FC_PF and FC_PFLASH.

        Additional rules for Export:  There are no known cases where
        an explicit start signal is used on trunks where MFC address
        signaling is performed.  If in_sigtype is either
        DBMFC_V1 or DBMFC_V2, then in_startsig should be FCSTARTNA.
```

**Attribute:**

```
        out_startsig
```

**Fullname:**

```
        outgoing start signal type.
```

**Attribute Description:**

```
        Outgoing start signal type.

        Outgoing trunks cannot have the value FCDIALTONE or FCANSDTONE.

        If == FCFXGRND, rlFC_PORTTYP.lptyp = PCFXGRND
        If == FCFXLOOP, rlFC_PORTTYP.lptyp = PCFXLOOP

        All CCS trunks should be set to FCSSNULL.

        Trunks with service class of FCEDSL and FCEDSLHM should be set
        to FCSSNULL.

        All trunks with rlFC_PORTTYP.servclass = FC_EIS_TRK
        must have out_startsig set to FCSSNULL.

        Outgoing revertive pulsing trunks should have an
        out_startsig of FCIMMED.
```

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For incoming only trunks (rlRT_TRKG.type == RTINCOM) with a service class (rlRCTGRPRK.servclass) of FC_PF or FC_PFLASH, and an in_startsig of FCDIRCON, the out_startsig should be FCFXGRND, FCFXLOOP or FCSSNULL.

The out_startsig for all other incoming only trunks should be FCSSNULL.

For access to private facility customer premise equipment (CPE) (radio paging, recorded telephone dictation and code calling) the trunks must be a Loop Start Outgoing (LSO) analog trunks.

For CPE without a sleeve lead
rlRT_TRKG.type == RTOUTGO,
rlRCTGRPRK.servclass == FC_PF,
out_startsig must be FCSSNULL
and rlFC_PORTYPE.lptype == PCCPEOTRK.

For CPE with a sleeve lead
rlRT_TRKG.type == RTOUTGO,
rlRCTGRPRK.servclass == FC_PFCPE,
out_startsig must be FCSSNULL
and rlFC_PORTYPE.lptype == PCCPEOTRK.

Additional rules for Export: There are no known cases where an explicit start signal is used on trunks where MFC address signaling is performed. If out_sigtype is either DBMFC_V1 or DBMFC_V2, then out_startsig should be FCSTARTNA.

**Attribute:**
idle_state
**Fullname:**
Idle state.
**Attribute Description:**
This attribute is used to control how on/off hook signals are sent on a trunk.

The default value is DBON_HOOK.

Non-ccs trunks are trunks which have RLrt_trkg.in_sigtype or RLrt_trkg.out_sigtype set to something other than DBCCIS6 or DBISUP7.

CCS6 trunks are trunks which have either RLrt_trkg.in_sigtype or RLrt_trkg.out_sigtype equal to DBCCIS6.

For Non-CCS trunks, the following rules apply:

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if RLfc_tcitg.signal==DBSIG1 and RLfc_porttyp.servclass==FC_TCI_KT
then
RLfc_trunk.idle_state must_be DBOFF_HOOK

CCS7 trunks are trunks which have either
RLrt_trkg.in_sigtype or RLrt_trkg.out_sigtype equal
to DBISUP7.

For CCS trunks, idle_state should be set to DBON_HOOK unless
the following statements apply to the facility used.
For CCS trunks, RLfc_trunk.idle_state should be
populated based on how the AB signaling bits should be
set during the talking state of a call. CCS software
will send AB=00 at all times except when
RLfc_trunk.idle_state is set to DBOFF_HOOK.
If RLfc_trunk.idle_state = DBOFF_HOOK, then CCS
software will handle AB signaling bits special for
outgoing calls. It will send AB=11 during the call setup
and talking state for outgoing calls and send AB=00 when
the circuit is idle. AB continues to be sent as 00 for
incoming calls.

The value of DBOFF_HOOK is used to control situations
where incompatibilities exist with certain transmission
equipment which requires in-band signaling. For this
equipment, AB=11 is needed to complete a transmission path.

The need to use a special value for RLfc_trunk.idle_state
usually arises when an in-band signaling trunk is
converted to ISUP7 and the existing facility contains
transmission equipment which was designed for use only
with in-band signaling.
One example of such equipment is dial pulse terminating channel
units. Other equipment of this type can be recognized by
consulting the circuit layout card for the trunk facility.
A special setting of RLfc_trunk.idle_state is potentially
needed on 1 way outgoing trunks where a D bank is present
in the facility using a SFC-CU plug-in card. See the
diagram here.

5ESS-DFI>-------one way T1 trunk------D Bank SFO-CU----->1AESS

If dial pulse terminating channel units are used, a value of
DBOFF_HOOK should be used. Not using this value in such a
connection could result in a poorer quality transmission path.

**Attribute:**
glare
**Fullname:**
Glare master.
**Attribute Description:**
This parameter indicates the method to be used on a trunk

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when dual seizure occurs.
Valid values are:

GL_CONTROL - this trunk will have control over glare and the far end office will yield to glare condition.
FCGL_RELEASE - this trunk will not have control in a glare situation and will yield to the far end office.

This attribute is populated as illustrated in the following.

NOTE: The following are the only valid combinations for RLrctgrprk.glare_action and RLfc_trunk.glare.

ONE-WAY TRUNKS:

One-way incoming and outgoing trunks are populated as follows:

| One-way Trunk Type | RLrctgrprk glare_action | | | | RLfc_trunk glare | |
|---|---|---|---|---|---|---|
| | ALLCTRL | NONECTRL | ODDEVEN | NULL | GL_CONTROL | FCGL_RELEASE |
| INCOMING | | | X | | | X |
| OUTGOING and others | | | X | | X | |

TWOWAY TRUNKS -- ISUP7

For 2-way CCS7 trunks, determine glare control as follows:

If RLrctgrprk.glare_action is set to ALLCTRL then
glare is set to GL_CONTROL.
If glare_action is set to NONECTRL then
glare is set to FCGL_RELEASE.
NOTE: For ISUP7 2-way trunks, check the capabilities of the far switch before setting this attribute to ALLCTRL or NONECTRL. The connecting office must be a 5E6 or later generic or have equivalent glare capability before a value of ALLCTRL or NONECTRL can be chosen.
If glare_action is set to ODDEVEN then compare the near end point code (that is, this office's Origination Point Code (OPC) from RLrt_trkg) to the far end point code (that is, this office's Destination Point Code (DPC) from RLrt_trkg.) If the OPC is higher, then this office sets glare to GL_CONTROL for the even numbered Circuit Identification Codes (CIC - from the RLprt7lab relation) and to FCGL_RELEASE for the odd numbered CICs. If the DPC is higher, then this office sets glare to GL_CONTROL for the

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odd numbered CICs and to FCGL_RELEASE for the even numbered CICs.

| | RLrctgrprk glare_action | | | | | RLfc_trunk glare | |
|---|---|---|---|---|---|---|---|
| | | | | OPC > | | GL_ | FCGL_ |
| Trunk Type | ALL CTRL | NONE CTRL | ODD EVEN | NULL | DPC | CIC | CONTROL | RELEASE |
| | X | | | | n/a | n/a | X | |
| | | X | | | n/a | n/a | | X |
| TWOWAY | | | X | | yes | even | X | |
| ISUP7 | | | X | | yes | odd | | X |
| | | | X | | no | even | | X |
| | | | X | | no | odd | X | |

TWOWAY TRUNKS -- CCIS6

For 2-way CCIS6 trunks, determine glare control as follows:

If this is a CCIS6 trunk (in_sigtype or out_sigtype = DBCCIS6), compare the near end CLLI code (ne_clli in the relation RLrctgrprk), with the far end CLLI code (fe_clli in the relation RLrctgrprk). If this office has the lower ASCII value of the two, then set glare to GL_CONTROL for the odd band member numbers and to FCGL_RELEASE for the even band member numbers. If the FE_CLLI is lower, set glare to GL_CONTROL for the even band member numbers and FCGL_RELEASE for the odd band member numbers.

| | RLrctgrprk glare_action | | | | | | RLfc_trunk glare | |
|---|---|---|---|---|---|---|---|---|
| | | | | | ne_clli < fe_clli | band member number | GL_ CONTROL | FCGL_ RELEASE |
| | | | | X | yes | odd | X | |
| TWOWAY | | | | X | yes | even | | X |
| CCIS6 | | | | X | no | odd | | X |
| | | | | X | no | even | X | |

TWO-WAY TRUNKS -- MF/DP and others

2-way MF/DP and other trunk types that are not illustrated are populated as follows:

| | RLrctgrprk glare_action | | | RLfc_trunk glare | |
|---|---|---|---|---|---|
| Trunk Type | ALL CTRL | NONE CTRL | ODD EVEN | NULL | GL_ CONTROL | FCGL_ RELEASE |
| MF/DP and others | X | | | | X | |
| | | X | | | | X |

;

**Attribute:**
hardware
**Fullname:**
EM or reverse battery.
**Attribute Description:**
This attribute allows the specification of an E&M trunk or a reverse battery trunk.

All analog trunks should use the default (FC_EM2) if not otherwise specified.

Digital trunks (whether CCS or not) should use the default (FC_EM2) if not otherwise specified. Digital trunks with a servclass of FC_TCI_KT and FC_TCI_TT should be allowed to have a hardware value of FC_RB for CAMA keying and talking trunks.

**Attribute:**
trkgmbgid
**Fullname:**
TrunK Group Multiswitch Business Group (MBG) IDentifier
**Attribute Description:**
trkgmbgid is an identifier used to describe a Multiswitch Business Group (MBG), for which the following indicated actions apply.

This is a unique number in the network with a range of {0,2-65535}. The value 1 is "Reserved for Public Network Identifier" (such as, non-MBG identification). A value of 0 denotes a null value; this trunk group contains public trunks, the trunk group is not associated with any single MBG. Trunks in this trunk group can be used to signal

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```
        public MBG related information.

        A value of 2 or greater indicates a single Multiswitch
        Business Group identifier value for which MBG calls are
        allowed to send the Generic Digits Parameter (GDP) with
        the type of off-net trunk encoded in the parameter.

        The GDP parameter may be populated and sent provided:
              (1) the call is a MBG call
              (2) trkgmbgid matches the MBG identifier that is
                dynamically associated with the outgoing call.

        /* RULE about RLfc_trunk.trkgmbgid */

        /* RLfc_trunk.trkgmbgid must be 0 unless */
        /* CENTREX Network for government Secure (CNS) */
        /* CNS_SFID #183 is on or VPN Expansion Package 2 (SFID270)
         * is on. */
```

**Attribute:**
type
**Fullname:**
Type.
**Attribute Description:**
Allows for the specification of an incoming, outgoing, two way, ISDN link, or announcement trunk.

If sdnded == DBYES, RLfc_trunk.type must be either incoming or twoway.

All trunks with rlFC_PORTTYP.servclass = FC_EIS_TRK must have type set to RTOUTGO.

**Attribute:**
screen_x
**Fullname:**
screening index.
**Attribute Description:**
Screening index. This index is used in processing a call on a two way or incoming trunk. Outgoing trunks receive a value of zero.

**Attribute:**
pbx_id
**Fullname:**
pbx identifier.
**Attribute Description:**
If the trunk belongs to a PBX this field contains the PBX identifier. For non-PBX trunks this will have the value 0. The default is 0. The full domain subrange is valid. If it

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is non-zero, then it is the key into the relation RLfc_pbx containing data relating to the whole PBX.
Starting in 5E6, this attribute is also used by domestic.
RLfc_pbx is used only by export and not by domestic.
RLfc_trunk.pbx_id must be the same as RLrt_trkg.pbx_id for each member of the trunk group.

This attribute will be used by CPN/BN for PRI screening. It will be used as a key into the relation RLsc_range which can contain up to 20 ranges of DNs to be screened. See poprules for RLsc_range in RLsc_range.p.

**Attribute:**
stop_go
**Fullname:**
stop go operation allowed.
**Attribute Description:**
Stop go operation allowed during outpulsing on immediate start trunk. Currently populated as DBNO.

**Attribute:**
tgroup
**Fullname:**
Trunk group.
**Attribute Description:**
Trunk group number. Each active trunk is assigned a trunk group number. The more members a trunk group has the more calls that can be processed. All trunks assigned to the same trunk group must carry the same enumerations in the previously defined attributes.

**Attribute:**
member
**Fullname:**
Member.
**Attribute Description:**
Each port in a trunk group is assigned a unique member number starting with member number zero.

For CCS trunks:
If the in_sigtype or out_sigtype is DBCCIS6, the members MUST begin with member zero and be inserted consecutively. If it is DBISUP7 or DBTUP7, for RC the members will be allowed to be inserted non-sequentially, to aid CCS conversion procedures. ODA is still required to insert all members sequentially.

**Attribute:**
insep
**Fullname:**

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incoming/originating separations class.

**Attribute Description:**

Incoming traffic separations class. This information is used to populate RLfc_line.insep and is assigned by the office. Insep is used by Division of Revenue (DOR) for domestic and by Traffic Dispersion for export. Insep is based on line class code and rate area exchange.

**Attribute:**

unitype

**Fullname:**

Equipment unit type.

**Attribute Description:**

This attribute is the trunk's hardware equipment type.

**Attribute:**

unitnum

**Fullname:**

Equipment unit number.

**Attribute Description:**

Equipment unit number.

**Attribute:**

brc_trm

**Fullname:**

brcs terminal features.

**Attribute Description:**

Specifies whether or not any terminal assignable BRCS features are assigned to this port.
If DBYES, a tuple will exist in RLtrmfeats with keys RLfc_trunk.lport, lpt_type = LPT_OTHER, and range = 0.
If more than 6 terminal features are assigned, additional tuples using range = 1 thru 4 in sequential order will exist.

**Attribute:**

brc_dn

**Fullname:**

brcs dn features.

**Attribute Description:**

Specifies whether or not any DN assignable BRCS features are assigned to this
trunk. If DBYES, a tuple will exist in RLdn_feats with key RLfc_trunk.port.module, ltm_type, and ltm_idx and range = 0. If more than 6 DN features are assigned, additional tuples using range = 1 thru 4 in sequential order will exist.

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**Attribute:**
ltm_type
**Fullname:**
logical termination index type.
**Attribute Description:**
Logical Termination Index Type.
A RC/ODA assigned value.
Indicates which range the ltm_idx value is from.
See RLrc_qidx for rules for assigning the value.

**Attribute:**
ltm_idxo
**Fullname:**
logical termination index.
**Attribute Description:**
Logical Termination Index.
A RC/ODA assigned ltm_idx value.
The port.module and ltm_idx values are used as key values
lead_module and ltm_idx, respectively to access RLdn_feats
See RLrc_qidx for rules for assigning the value.

This index is a sequential number assigned to correspond
to this port. If trunk, ltm_idx = RLgroup_port.ltm_idx and
ltm_type = RLgroup_port.ltm_type.

Note: Attribute ltm_idx has a domain range of 0-8191.
The range in this relation specifies 1-8191.
As discussed in RLrc_qidx, the existence of an
index implies the value 1 or greater. If no index
is defined, RLrc_qidx(ltm_type) would contain an ltm_idx
value of 0 and NO TUPLE WOULD EXIST IN THIS RELATION.
Therefore, ltm_idx must be greater than 0 in this
relation.

**Attribute:**
cut_thru
**Fullname:**
Cut through trunk.
**Attribute Description:**
Indicates if the trunk is cut through (DBYES) or not (DBNO).
Must be DBNO for CCS trunks.

If cut_thru is DBYES, then trunk class of service must
be FC_PF, FC_PFLASH or FC_CPE.

**Attribute:**
time_flash
**Fullname:**
Timed flash trunk.
**Attribute Description:**

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Indicates if this trunk is to be timed for flash.

**Attribute:**
hold_busy
**Fullname:**
Hold busy.
**Attribute Description:**
Hold busy.

**Attribute:**
satellite
**Fullname:**
Satellite trunk
**Attribute Description:**
DBYES if trunk via satellite, else DBNO.

**Attribute:**
ani
**Fullname:**
automatic number identification.
**Attribute Description:**
This attribute will be used by switch personnel person
to validate the directory number assignments,
and to provide Automatic Number Identification
for private network trunks.

For trunks with servclasses of FC_PF, FC_PFLASH,
FC_PFITT or FC_LTOLL_CONN FCtrunk.ani may be set
to DBYES or DBNO as specified by the customer.
All other servclass values default FCtrunk.ani to DBNO.
For all members of a given trunk group, the ani bit
must be set to the same value.

ani has a dependency on sdnded which indicates this is
a trunk dedicated to SDN service access.
If RLfc_trunk.sdnded == DBYES and the 'servclass'
associated with this trunk is FC_PF then ani must
be DBYES."

Only trunks servclasses of FC_PF, FC_PFLASH, FC_PFITT and
FC_LTOLL_CONN are supported with FCtrunk.ani set to DBYES.

With servclass of FC_LTOLL_CONN and FCtrunk.ani
set to DBYES, the trunk group will provide CAMA-ANI type
signaling. The trunk group must also have out start dial
equal to "WINK" and out pulse equal to "MF".
The route index associated with this configuration
must be equal to TRAD (Traditional signaling).

Trunks with servclass of FC_LTOLL_CONN and FCtrunk.ani

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set to DBYES are considered a special case and regular interoffice and carrier interconnect traffic must not be routed over these trunks.

A typical use for this configuration is ANAC (Automatic Number Announcement Circuit), or any other service that requires ANI information to be outpulsed after an off hook / answer signal is received from the far end.

**Attribute:**
vpa_type
**Fullname:**
Voice Path Assurance (VPA) type.
**Attribute Description:**
This attribute, taken together with mai, is used to control how CCS software executes the voice path assurance test.
For detailed definition, refer to RLrctgrprk.vpa_type population rules.

For a description of high loss trunking, ICL, etc., refer to the RLrctgrprk relation.

The Trunk Group attribute vpa_rate controls how often the VPA tests are done. For CCS trunks, it is optional, but for non-CCS trunks it must be CCPCT0.
If vpa_rate does not equal CCPCT0, then the SMs containing trunks from this trunk group must have DSU2-LDSUF service groups equipped with tone transceivers (RLcktdata.type = PCT_XCVR).

## 5. FC_TRUNK Population rules continued.

**Attribute:**
datarate
**Fullname:**
Data rate.
**Attribute Description:**
This attribute is used to identify the data rate that this trunk is capable to handle for an inter switch ISDN data call. It is also used to identify the data rate that an ISDN EDSL trunk is capable of handling.

Data trunks are interoffice two-way digital trunks designated to transmit data to/from an ISDN CPE at 56kb/s, restricted 64kb/s or clear 64kb/s.

IDSN digital packet switching trunks have a servclass equal to PSPKT_TRK, PSX75_TK or PSX75P_TK. The datarate for PSX75_TK and PSX75P_TK trunks must equal DBDATA_56K. The datarate for PSPKT_TRK trunks may be DBDATA_56K or DBDATA_64K.

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Data trunks may also be EDSL trunks that have a servclass of FCEDSL or FCEDSLHM and can handle data rates of 56kb/s, clear 64kb/s, or restricted 64kb/s. EDSL datarates are specifically controlled by the RLcktdata.dfimode (see RLdslequip.dslrate for the valid combinations of dfimode and datarate).

All members of a trunk group must have the same data rate value. If the trunk is analog (unitype == SMTU), then datarate is always DBDATA_NULL. Digital trunks can have the full range of values. Digital trunks include the following values for unitype:
SMDLTU, SMDLTU2,
SMDNU_S

Range of values:
DBDATA_NULL for voice trunk.
DBDATA_56K for any trunk (segregated or not) able to carry 56 kb/s data calls.
DBDATA_R64K for any trunk (segregated or not) able to carry restricted 64 kb/s data calls.
DBDATA_64K for any trunk (segregated or not) able to carry 64 kb/s data calls.

'servclass' for this trunk group defined in RLfc_porttyp, RLgroup_port, and RLpggpmap can be FC_LTOLL_CONN, FC_TTOLL_CONN, FC_PRI_INTOLL, FC_SEC_INTOLL, FC_IEC, or FC_LATA_CONN.
or FC_PFITT, FC_PF or FC_PFLASH.
The 'type' attribute of this relation can be RTTWOWAY, RTINCOM, or RTOUTGO. This applies for all generics.

'servclass' for this trunk can also be FCEDSL with 'type' = RTTWOWAY, RTINCOM, RTOUTGO, RTISDNLK or FCEDSLHM with 'type' = RTTWOWAY, RTINCOM (See FC_TRUNK EDSL pop rules).

This attribute must have the same value as the datarate attribute defined in the RLrctgrprk tuple for the trunk group indicated in RLfc_trunk.tgroup.

If the trunk has servclass of FC_PF, FC_PFITT or FC_PFLASH and pulsing is not ISUP7 then datarate must equal DBDATA_56K or DBDATA_NULL.

**Attribute:**
ln_type
**Fullname:**
Leased Network type.
**Attribute Description:**
Attribute which marks the trunk as one of the following:
LN_NULL - trunks are not Leased Network

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```
LN_QRY   - Leased Network with query to the database
LN_NOQRY - Leased Network with no query to the database
LN_IMT   - Leased Network Intermachine trunks
```

**Attribute:**
ext_guard
**Fullname:**
Extended guard timing.
**Attribute Description:**
Indicates whether Extended Guard Timing is to be performed for this port. Extended Guard Timing performs guard timing of 1600ms.

**Attribute:**
sdnded
**Fullname:**
Software Defined Network (SDN) dedicated trunk.
**Attribute Description:**
Indicates if the trunk is assigned to SDN service access (DBYES) or not (DBNO). Note: Only the ACP offices will be allowed to have these trunks. BRCS features are not allowed for this attribute. RLrctgrprk.brcs will be set to no. The value for this attribute will be populated from RLrctgrprk.sdnded.

If sdnded is DBYES, then Glapsdn must be DBYES which indicates this switch is an Action Point in the Software Defined Network.

**Attribute:**
sgd
**Fullname:**
Station Group Designator (SGD).
**Attribute Description:**
Station Group Designator (SGD) is a digit at the end of a dialed digit string indicating the group to which a station belongs. This attribute indicates if a SGD is expected to be forwarded from the originating PBX to the Action Point (ACP) in the Software Defined Network (SDN).

This attribute may be set to DBYES only if this trunk is a SDN Direct Access trunk from a PBX to an ACP.

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```
If sgd == DBYES then
    sdnded must be DBYES
    and 'servclass' must be FC_PF

The value for this attribute will be
populated from RLrctgrprk.sgd.
```

**Attribute:**
ans_delay
**Fullname:**
answer delay timing.
**Attribute Description:**
Indicates whether answer delay timing is to be performed on this port.

**Attribute:**
unres_ea
**Fullname:**
unrestricted equal access signaling is allowed.
**Attribute Description:**
This attribute allows trunks to originate private virtual network calls using equal access signaling. This is assigned on a trunk group basis.

**Attribute:**
pvnterm
**Fullname:**
PVN terminating indicator.
**Attribute Description:**
This attribute allows all calls originating on the trunk to be marked as ASP terminal group originators. This allows termination to terminal groups with ASPF and ASPS restriction types.

**Attribute:**
privacy
**Fullname:**
private number.
**Attribute Description:**
This attribute is used for EAMF, CAMA, PRI, EDSL, and EDSLHM trunk groups to indicate whether the DN received is a private number or not. This attribute corresponds to, and should have the same value as, RLrctgrprk.privacy.
DBYES - indicates a private number
DBNO - indicates not a private number.

```
*******************************************************
* Note: The determination of the type of trunk group,  *
```

```
        *   EAMF, CAMA, PRI, EDSL, or EDSLHM, is not recent    *
        *   change enforceable but is a recommendation for     *
        *   ODA population of an office.  For trunk group      *
        *   types other than those listed previously this      *
        *   attribute should be set to DBNO.                   *
        ******************************************************
```

**Attribute:**
cpn_rstrct
**Fullname:**
Calling Party Number restriction.
**Attribute Description:**
This attribute is used to determine if the Calling Party Number (CPN) parameter should be passed in an ISUP7 Initial Address Message (IAM) to the next office.

This attribute is only used by operational software when servclass equals FC_LATA_CONN. It is ignored for all other trunk groups.

This attribute corresponds to, and should have the same value as, RLrctgrprk.cpn_rstrct.
DBNO - indicates the parameter should be passed to the next office (not restricted)
DBYES - indicates the parameter will not be passed to the next office and the CPN parameter will be deleted from the outgoing IAM (restricted).

For additional details, see poprules for RLrctgrprk.

**Attribute:**
chg_rstrct
**Fullname:**
Charge Number restriction.
**Attribute Description:**
attribute is used to determine if the Charge Number (CHG) parameter should be passed in an ISUP7 Initial Address Message (IAM) to the next office.

This attribute is only used by operational software when servclass equals FC_LATA_CONN. It is ignored for all other trunk groups.

This attribute corresponds to, and should have the same value as RLrctgrprk.chg_rstrct.
DBNO - indicates the parameter should be passed to the next office (not restricted)
DBYES - indicates the parameter will not be passed to the next office and the CHG parameter will be deleted from the outgoing IAM (restricted).

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For additional details, see poprules for RLrctgrprk.

**Attribute:**
uuiic_rstrct
**Fullname:**
User to User Information Parameter IXC Boundary Restriction Indicator
**Attribute Description:**
User to User Information Signaling transfer allows ISDN customers to exchange user data transparently through the network, in the User to User Information Parameter (UUI) of an ISUP message, during call setup and call clearing.

The User to User Information Parameter IXC Boundary Restriction Indicator is checked at network boundaries by the operational software to determine if the UUI parameter should be passed/accepted in an ISUP message to/from the far switch. (The UUI parameter may be included in any of the following ISUP messages: Initial Address Message (IAM), Address Complete Message (ACM), Answer Message (ANM), Call Progress Message (CPG), Release Message (REL).)

For LATA_CONN trunks:

DBNO: Indicates the UUI parameter should be accepted in forward messages / passed in backward messages by IXC switches at the access point.

Indicates that the UUI parameter should be passed in forward messages / accepted in backward messages by IXC switches at the egress point.

(Not Restricted)

DBYES: Indicates the UUI parameter should not be accepted in forward messages / passed in backward messages by IXC switches at the access point.

Indicates that the UUI parameter should not be passed in forward messages / accepted in backward messages by IXC switches at the egress point.

(Restricted)

For IEC trunks:

DBNO: Indicates the UUI parameter should be accepted in backward messages by LEC switches at the access point.

Indicates that the UUI parameter should be accepted in forward messages by LEC switches at the egress point.

(Not Restricted)

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DBYES: Indicates the UUI parameter should not be accepted in backward messages by LEC switches at the access point.

Indicates that the UUI parameter should not be accepted in forward messages by LEC switches at the egress point.

(Not Restricted)

The following guidelines should be followed when populating the fc_trunk.uuiic_rstrct attribute for ISUP trunks.

This attribute is used by the operational software only at network boundaries. Therefore, for trunks with service class of FCLATA_CONN or FC_IEC, this indicator should be optioned by the customer.

This attribute is ignored by the operational software for all other service class values.

This attribute corresponds to, and should have the same value as RLrctgrprk.uuiic_rstrct. For additional details, see the poprules for RLrctgrprk.

**Attribute:**

atpic_rstrct

**Fullname:**

Access Transport Parameter IXC Boundary Restriction Indicator

**Attribute Description:**

Q.931 Information Element transfer facilitates the transport of specific Q.931 information elements in the ISUP Access Transport Parameter (ATP) transparently between exchanges in the network.

The Access Transport Parameter IXC Boundary Restriction Indicator is checked at network boundaries by the operational software to determine if the ATP parameter should be passed/accepted in an ISUP message to/from the far switch. (The ATP parameter may be included in any of the following ISUP messages: Initial Address Message (IAM), Address Complete Message (ACM), Answer Message (ANM), Call Progress Message (CPG), Release Message (REL).)

For LATA_CONN trunks:

DBNO: Indicates the ATP parameter should be accepted in forward messages / passed in backward messages by IXC switches at the access point.

Indicates that the ATP parameter should be passed in forward messages / accepted in backward messages by IXC switches at the egress point.

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(Not Restricted)

DBYES: Indicates the ATP parameter should not be accepted in forward messages / passed in backward messages by IXC switches at the access point.

Indicates that the ATP parameter should not be passed in forward messages / accepted in backward messages by IXC switches at the egress point.

(Restricted)

For IEC trunks:

DBNO: Indicates the ATP parameter should be accepted in backward messages by LEC switches at the access point.

Indicates that the ATP parameter should be accepted in forward messages by LEC switches at the egress point.

(Not Restricted)

DBYES: Indicates the ATP parameter should not be accepted in backward messages by LEC switches at the access point.

Indicates that the ATP parameter should not be accepted in forward messages by LEC switches at the egress point.

(Not Restricted)

The following guidelines should be followed when populating the fc_trunk.atpic_rstrct attribute for ISUP trunks.

This attribute is used by the operational software only at network boundaries. Therefore, for trunks with service class of FCLATA_CONN or FC_IEC, this indicator should be optioned by the customer.

This attribute is ignored by the operational software for all other service class values.

This attribute corresponds to, and should have the same value as RLrctgrprk.atpic_rstrct. For additional details, see the poprules for RLrctgrprk.

**Attribute:**
cfn_rstrct
**Fullname:**
Confusion Message Restriction Indicator
**Attribute Description:**
In order to identify that unrecognized signaling information

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has been received at an exchange, a Confusion message (CFN) may be sent in either the forward or backward direction to an adjunct switch. (Unrecognized signaling information refers to those messages, optional parameters, and mandatory and optional parameter values of the ISDN UP protocol that an exchange has not yet implemented. [NI 2.0 SSD]

The Confusion Message Restriction Indicator is used by the incoming operational software when an incoming message is not understood. This attribute is checked to determine whether a Confusion Message should be generated and sent to an adjunct office.

This attribute corresponds to, and should have the same value as RLrctgrprk.cfn_rstrct.

DBNO: Indicates that the message should be generated/ sent to the adjunct office. (not restricted)

DBYES: Indicates that the message should be generated/ sent to the adjunct office. (restricted)

(The default setting of this attribute is 'not restricted'.)

The following guidelines should be followed when populating the RLfc_trunk.cfn_rstrct indicator for ISUP trunks.

1) The Confusion Message (CFN) should be generated only at LEC switches. Therefore, this attribute should be optioned by the customer.

2) The Confusion Message (CFN) should not be generated at AT&T toll offices. Therefore, this attribute does not apply at toll exchanges where ccs7_type equals TOLL. Also for CCS7 LATA_CONN trunks at an originating toll exchange where ccs7_type equals RBOC, the value of this attribute does not apply.

For additional details, see the poprules for RLrctgrprk.

**Attribute:**
rcd_3pt1_itc
**Fullname:**
Recode '3.1kHz Audio' Bearer Capability
**Attribute Description:**
This attribute is used to determine the bearer capability (IAM.USI.tr_cap value) to be sent out for outgoing ISUP calls with a bearer capability equal to '3.1kHz audio'.

This attribute is ONLY applicable under the following conditions.

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1.) The bearer capability of the outgoing call is '3.1kHz audio',
2.) This is an originating end office or a local tandem which received the call via an incoming inband signaling speech trunk, and
3.) An outgoing ISUP trunk was selected.

All members of a trunk group must have the same value for rcd_3pt1_itc.

The following diagram provides the value for rcd_3pt1_itc and the action that will be taken.

| Value: | Action: |
|---|---|
| DBNULLITC | No value has been defined, use the global office parameter Glrcd_3pt1 to determine the bearer capability value to be sent out. |
| DBSPEECH | Recode IAM.USI.tr_cap to 'speech' |
| DB3PT1KHZ | Send out the IAM.USI as is, (ie- '3.1kHz audio') |

This attribute must have the same value as the rcd_3pt1_itc attribute defined in the RLrctgrprk tuple for the trunk group indicated in RLfc_trunk.tgroup.

**Attribute:**
lsdel_ans
**Fullname:**
OSPS Listing Services Delay Answer Supervision.
**Attribute Description:**
This attribute is used by OSPS on Listing Services calls to determine when answer supervision should be relayed to the originating office. When set to DBYES, answer supervision is relayed upon receipt of a billing indicator from an external vendor system. When set to its default value DBNO, answer supervision is relayed upon operator position seizure.
DBYES - answer supervision after external vendor stimulus.
DBNO - answer supervision after operator position seizure.

**Attribute:**
ccs7_typ
**Fullname:**
CCS7 protocol type indicator.
**Attribute Description:**
This attribute is used by call processing software to trigger network specific handling of certain ISUP7 parameters. A value of DBTOLL indicates that RII and DLDN should be sent if known. It also means to handle the CPN parameter as billing number, provided that the network is operating in `old' mode.

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After toll network transition to `new' mode the CPN parameter will contain calling party number.

A value of DBRBOC means that ISUP7 parameters are to be handled as specified by Telcordia Technologies. For example, the CPN and CHG parameters should be sent when known. Also, the OLI parameter can be sent when known with a value showing the service id of the call. RBOC network specific handling of parameters occurs when ccs7_typ is set to DBRBOC.

Generally, all trunk groups that are in a local exchange carrier environment are populated with a value of DBRBOC. Conversely, all trunk groups that are in the AT&T-NOG environment are populated with a value of DBTOLL except LATA_CONN trunks which have a value of DBRBOC.

This attribute corresponds to and should have the same value as RLrctgrprk ccs7_typ.

**Attribute:**
staggered
**Fullname:**
Cascading announcement.
**Attribute Description:**
Indicate whether this trunk member is for 15A cascading announcement. This attribute must have the same value as RLrt_trkg.staggered. For additional details, see the poprules for RLrt_trkg.

**Attribute:**
utt
**Fullname:**
Utility Telemetry Trunk Indicator.
**Attribute Description:**
This bit is being used for the Suppressed Ringing special feature. This bit is used to mark this member as a member of a Utility Telemetry Trunk Group.

**Attribute:**
ffcf1
**Fullname:**
Future Feature spare bit
**Attribute Description:**
Boolean reserved for future field feature.

**Attribute:**
ffcf2
**Fullname:**

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Future Field Feature

**Attribute Description:**

This attribute is a spare

**Attribute:**

ffcf3

**Fullname:**

Future feature

**Attribute Description:**

Boolean reserved for future field feature

**Attribute:**

ffcf4

**Fullname:**

Boolean reserved for future field feature

**Attribute Description:**

See fullname description

**Attribute:**

ffcf5

**Fullname:**

Boolean reserved for future field feature

**Attribute Description:**

Boolean reserved for future field feature

**Attribute:**

ffcf6

**Fullname:**

Boolean reserved for future field feature

**Attribute Description:**

See fullname description

**Attribute:**

ffcf7

**Fullname:**

Boolean reserved for future field feature
ICOS trunk group detection

**Attribute Description:**

This attribute if set to YES, indicate a ICOS trunk group for servclass FCAPXIDCS. A corresponding spare attribute, ffcf5, in the relation RLrctgrprk must be set to 1 when this bit is set to DBYES; otherwise, this bit must be set to DBNO and the corresponding attribute in rctgrprk must be set to 0.

This spare attribute will be used in generic 5E11 and 5E12. In 5E13, this attribute will be replaced with new attribute called icos_trkg. The attribute ffcf7 will be released for use as a spare attribute.

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**Attribute:**
ln_virt_on
**Fullname:**
FTS2000 Leased Network Virtual On-Net trunk.
**Attribute Description:**
This attribute is used to indicate whether this is a FTS2000 Leased Network virtual on-net trunk. This attribute corresponds to, and should have the same value as, RLrctgrprk.ln_virt_on.

DBYES - indicates a FTS2000 Leased Network virtual on-net trunk.
DBNO - otherwise.

**Attribute:**
ani_type
**Fullname:**
automatic number identification type
**Attribute Description:**
Used to differentiate between various direct access and switched access ANIs for outbound services. A value of 0 indicates that the outbound services ANI table (RLanitbl) will not be accessed for call processing data.

**Attribute:**
e911type
**Fullname:**
Enhanced 911 type
**Attribute Description:**
e911type specifies the type of trunk to which Enhanced 911 calls are being routed over.

**Attribute:**
esco
**Fullname:**
Emergency Service Central Office number
**Attribute Description:**
The esco number identifies the originating office of an E911 caller. It is read from this relation upon trunk originations, and is used in call processing to retrieve an Emergency Service Number (ESN) which is used for call routing and call transfer.

**Attribute:**
cama_psap
**Fullname:**
CAMA Public Safety Answering Point

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**Attribute Description:**
This attribute is used to designate a trunk as a CAMA PSAP trunk.

**Attribute:**
rdta_port
**Fullname:**
Indicates the port is assigned to the RPA RDTA feature.
**Attribute Description:**
The attribute is used to indicate if the port is a EDSL PRI trunk port that has been assigned to the RPA Remote Digital Test Access feature. If the attribute is DBYES then a tuple must exist in RLdn_rdta and a tuple must exist in RLrt_dntran with the same TN defined in RLdn_rdta. The RLrt_dntran.rdta_port attribute must also be DBYES if this attribute is DBYES. The attribute is used only by RC/V but is supported by ODA mapping.

**Attribute:**
ani6
**Fullname:**
automatic number identification 6.
**Attribute Description:**
This attribute indicates to the operator system that the call may require special screening.

If RLfc_trunk.ani6 is DBYES then RLfc_trunk.ani7 must be DBNO. For trunks with servclasses of FC_PF, FC_PFLASH or FC_PFITT & type of RTINCOM or RTTWOWAY RLfc_trunk.ani6 may be set to DBYES or DBNO as specified by the customer. All other servclass values must set RLfc_trunk.ani6 to DBNO.
The ani6 bit may not be set to DBYES on a data trunk.
For all members of a given trunk group, the ani6 bit should be set to the same value.

RLfc_trunk.ani6 will be defaulted to DBNO.

**Attribute:**
ani7
**Fullname:**
automatic number identification 7.
**Attribute Description:**
This attribute indicates to the operator system that the call may require special screening.

If RLfc_trunk.ani7 is DBYES, RLfc_trunk.ani6 must be set to DBNO. For trunks with servclasses of FC_PF, FC_PFLASH or FC_PFITT & type of RTINCOM or RTTWOWAY RLfc_trunk.ani7 may be set to DBYES or DBNO as specified by the customer. All other servclass values must set RLfc_trunk.ani7 to DBNO.

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The ani7 bit may not be set to DBYES on a data trunk. For all members of a given trunk group, the ani7 bit should be set to the same value.

RLfc_trunk.ani7 will be defaulted to DBNO.

**Attribute:**
asi_use
**Fullname:**
Advanced Service Interface Use.
**Attribute Description:**
Indicates allowed use by Advanced Service Interface. This field is administered on a trunk group basis.

**Attribute:**
noexinbnd
**Fullname:**
No expanded inband signaling
**Attribute Description:**
This bit is used to prevent EXINBND signaling on a particular TSPS trunk member that has a signaling of FCWINKONLY. Set attribute noexinbnd to DBYES after the Global office parameter Glexinbnd is set to DBYES.

For non-TSPS trunk members the noexbnd bit is always DBNO.

Default : DBNO

**Attribute:**
fgdcicsz
**Fullname:**
Valid size for incoming Feature Group D Carrier Identification Code (CIC).
**Attribute Description:**
The purpose of this field is to indicate the allowed CIC size for Access Via Tandem (AVT) and International Carrier (INC) call types. In the case of trunks not supporting AVT and INC call types, a default value of FGDCIC3 is used.

**Attribute:**
trignum
**Fullname:**
Trigger Number
**Attribute Description:**
Trigger number for Network Services applications for Shared Interoffice Trunks.

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**Attribute:**
prigrp
**Fullname:**
Primary Rate Interface Group
**Attribute Description:**
This attribute will identify the PRI group to which the D and B channels belong.

**Attribute:**
interf_id
**Fullname:**
Interface ID for this facility in a PRI group
**Attribute Description:**
Each facility (T1) in a PRI group, is assigned a unique interface ID number within the PRI group. This number is used externally to identify the facility within a PRI group.

**Attribute:**
wbtsa_type
**Fullname:**
Wideband time-slot assignment type
**Attribute Description:**
The attribute wbtsa_type is used to specify the type of time-slot assignment scheme used by wideband trunk groups. The valid enumerations are: RTWBNULL, RTWBFLOAT, and RTWBFLEX.

RTWBNULL for non-wideband trunk groups or for wideband trunk groups that use fixed time-slot assignment,
RTWBFLOAT for wideband trunk groups that use floating time-slot assignment, and
RTWBFLEX for wideband trunk groups that use flexible time-slot assignment.

This attribute is also stored in RLrt_trkg so that RTA can access the information in the CMP, (wideband trunks are hunted globally so wideband trunk data is stored in the CMP). The attribute is included in this relation so that call processing software may access it.

**Attribute:**
wb_rate
**Fullname:**
Wideband trunk group rate for NxDS0
**Attribute Description:**
The attribute wb_rate is used to specify the rate of a wideband trunk group. The valid enumerations and an explanation of each enumeration follows:

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WB_NULL for non-wideband trunk groups,
WB_384K for wideband trunk groups which can handle
wideband 384 kb/s calls,
WB384_1536K for wideband trunk groups which can handle
wideband 384 kb/s or 1536 kb/s calls,
WB_1536K for wideband trunk groups which can handle
wideband 1536K calls,
WB_MR for wideband trunk groups that can handle NxDS0
calls which require from 2 - 24 trunks.

This attribute is also stored in RLrt_trkg so that RTA can access the information in the CMP during trunk hunt. The attribute is included here so that call processing software may access it.

**Attribute:**
fac_num
**Fullname:**
Facility number
**Attribute Description:**
The fac_num field indicates the facility number of the originating foreign exchange (FX) or tie trunk.

See checks in RLrctgrprk relation for fac_num & std_fxtie

**Attribute:**
std_fxtie
**Fullname:**
standard FX or Tie trunk
**Attribute Description:**
Identifies if this is a FX or Tie trunk.

**Attribute:**
cont_test
**Fullname:**
Continuity test indicator.
**Attribute Description:**
For Autoplex(R) Series I CS trunks, indicates whether or not a continuity test should be run.

**Attribute:**
spbool1
**Fullname:**
Spare Boolean 1
**Attribute Description:**
Reserved for future use.

**Attribute:**

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spbool2

**Fullname:**

Spare Boolean 2

**Attribute Description:**

Reserved for future use.

**Attribute:**

mltislcopt

**Fullname:**

Signaling option between MLT and ISLC.

**Attribute Description:**

Used by Improved DLC Operational Status Indications special feature. The mltislcopt field will be used to indicate whether enhanced MLT signaling is provided (DBYES) or the conventional signaling is provided (DBNO).

**Attribute:**

mai

**Fullname:**

Mode of access indicator

**Attribute Description:**

Used by OSPS Feature Group D Incoming Signaling for Special Applications - Release 2 feature. The mai field will be used to indicate whether the mode of access if "direct" or "switched". Default is "switched".

**Attribute:**

apicode

**Fullname:**

Access provider identifier code

**Attribute Description:**

The apicode field identifies an Access Provider Identifier (API) code for an incoming FGD trunk to an OSPS.

**Attribute:**

pci

**Fullname:**

Point Code Index

**Attribute Description:**

This attribute is used to map CCS7 trunks to an OPC/DPC combination.

**Attribute:**

cic

**Fullname:**

Circuit Identification Code

**Attribute Description:**

This attribute is used with OPC/DPC to identify a circuit

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for a CCS7 trunk.

**Attribute:**
asptoll
**Fullname:**
Advanced Services Platform Toll Indicator
**Attribute Description:**
The asptoll field indicates if all calls over this trunk group will generate an SCP query. When this field is set to DBYES all incoming calls will generate a query to the SCP. The query will contain the ANI and dialed number. The SCP will send back a reply with either the carrier or trunk group that should be used for routing. The 5E will also make an AMA record based on the SCP reply message.

**Attribute:**
asp_carrtrig
**Fullname:**
ASP Carrier Trigger detection
**Attribute Description:**
This attribute, if set to YES, indicates that if the carrier identified to use on this call has a trigger number provisioned, an ASP INFO_COLLECTED query to the SCP will be generated.

**Attribute:**
vpn_access
**Fullname:**
VPN Trigger detection
**Attribute Description:**
This attribute, if set to YES, indicates a VPN trunk group.

**Attribute:**
mbg_trans
**Fullname:**
MBG Transport
**Attribute Description:**
This attribute indicates whether the trunk supports receiving/sending MBG information on incoming/outgoing trunks between EO/localside and VPN switch. SFID270 must be unlocked via RC View 8.22 before mbg_trans may be set to DBYES.

**Attribute:**
far_e911
**Fullname:**
Far E911 indicator
**Attribute Description:**

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The far_e911 attribute indicates if the Digital Cellular Switch (DCS) trunk group is dedicated to E911 traffic at the far end. A value of DBYES indicates that the far end of DCS trunk group is designated as being dedicated for E911 traffic. A value of DBNO indicates the trunk group is not a DCS trunk or the far end of a DCS trunk group is not designated as being dedicated for E911 traffic.

## 6. FC_TRUNK Population rules continued.

**Attribute:**
tdx_trk
**Fullname:**
Toll Digital Exchange Trunk
**Attribute Description:**
This attribute is used to indicate that the trunk is part of the Toll Digital Exchange (TDX) network. Only trunks having a service class of FC_LATA_CONN, FC_TTOLL_CONN, and FC_IEC may be part of this network. The TDX network can be used when feature SFID165 has been purchased.

This attribute exists in both the RLfc_trunk and RLrctgrprk relations. Corresponding tuples should have the same value for this attribute. Since this attribute applies to a trunk group, the detailed poprules are provided with the RLrctgrprk relation.

**Attribute:**
term_bill
**Fullname:**
Terminating Billing Indicator
**Attribute Description:**
This attribute indicates whether a call that egresses a Toll Digital Exchange (TDX) network should have an associated AMA billing record produced at the terminating TDX office. This attribute only applies to TDX trunks.

This attribute exists in both the RLfc_trunk and RLrctgrprk relations. Corresponding tuples should have the same value for this attribute. Since this attribute applies to a trunk group, the detailed poprules are provided with the RLrctgrprk relation.

**Attribute:**
ani_proc
**Fullname:**
TDX Automatic Numbering Identification (ANI) Table Processing indicator
**Attribute Description:**
This attribute indicates whether a call on a Toll Digital Exchange (TDX) trunk may have ANI Table Processing. TDX ANI Table Processing is a secured feature numbered SFID235. Both SFID165 and SFID235 must be active before the ani_proc attribute

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may be set to DBYES. Valid combinations of the TDX and ANI secured features are represented in the following diagram.

| SFID165 TDX | SFID235 ANI | Comments |
|---|---|---|
| Y | N | TDX Basic Call Processing only |
| Y | Y | TDX Basic CP and ANI Table Processing |
| N | N | neither feature |
| N | Y | invalid setting (if this condition is found during a retrofit, then SFID235 should be turned off and all the ani_proc attributes should be reset to N) |

In addition, this TDX ANI table processing indicator may only be set on trunks having an FC_LATA_CONN servclass.

This attribute exists in both the RLfc_trunk and RLrctgrprk relations. Corresponding tuples should have the same value for this attribute. Since this attribute applies to a trunk group, the detailed poprules are provided with the RLrctgrprk relation.

**Attribute:**
ccstrkidx
**Fullname:**
CCS Trunk Index
**Attribute Description:**
This attribute is used for SS7 PSU signaling only. The indexes are maintained by the RLrc_qidx relations.

**Attribute:**
isupmld
**Fullname:**
ISUP Message Loop Detection
**Attribute Description:**
ISUP message loop detection attribute. This attribute can only be set for SS7 trunk on per trunk group basis, which have RLrt_trkg.out_sigtype equal DBISUP7.

**Attribute:**
maxhopcnt
**Fullname:**
Maximum Hop Counter value
**Attribute Description:**
Maximum Hop Counter value, assignable on a per SS7 trunk group basis. Max Hop Counter value specifies the maximum number of contiguous SS7 inter-exchange circuits that are allowed per ISUP call. The initial value must be greater than the maximum number of exchanges that would normally

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be used to complete the call. The range for hop counter value is from 0 to 20. A value of 0 should only be used for non-isup trunk groups.

**Attribute:**
lrn_das
**Fullname:**
location routing number (LRN) digit analysis tree selector (DAS)
**Attribute Description:**
This attribute contains the digit analysis tree selector to be used for analyzing a location routing number that has been received in an IAM message associated with an ISUP trunk origination.

This attribute exists in both the RLfc_trunk and RLrctgrprk relations. Corresponding tuples should have the same value for this attribute. Since this attribute applies to a trunk group, the detailed poprules are provided with the RLrctgrprk relation.

**Attribute:**
mlppstage
**Fullname:**
Multi-Level Precedence and Preemption stage
**Attribute Description:**
Multi-Level Precedence and Preemption protocol stage on SS7 trunk group. STAGE1 protocol sends/receives PP Level in Calling Party Category. STAGE2 protocol sends/receives PP Level in MLPP Precedence Parameter. Only SS7 trunks having service class of FC_LTOLL_CONN, FC_TTOLL_CONN, or FC_PRI_INTOLL along with a PP trunk hunt-type may have this attribute set to either CCSPPST1 or CCSPPST2.

This attribute exists in both the RLfc_trunk and RLrctgrprk relations.

**Attribute:**
ported
**Fullname:**
ported indicator
**Attribute Description:**
This attribute indicates if the trunk associated with this tuple is individually ported by the Number Portability feature. However, if the trunk is in a Terminal Group (TG), then the group ported indicator takes precedence over the individual ported indicator. The indicator that will be used (either the individual or the group ported indicator) will be the one that is displayed by Recent Change for the ported field on the line assignment views. See rc-oda-rules for more information.

**Attribute:**
mint_sig
**Fullname:**

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Mint signaling type.

**Attribute Description:**

This attribute is used to denote Mint signaling type

**Attribute:**

queue_inh

**Fullname:**

Queue inhibit indicator

**Attribute Description:**

This attribute is used to inhibit queuing

**Attribute:**

net_indicator

**Fullname:**

Network Indicator

**Attribute Description:**

Indicates if the call is entering or exiting an office from within (ON) or outside (OFF) of the network.

**Attribute:**

dal_egress

**Fullname:**

DAL (Direct Access Link) egress indicator

**Attribute Description:**

Indicates an outgoing or 2-way DAL trunk.

**Attribute:**

spc_pbx

**Fullname:**

Special PBX protocol indicator

**Attribute Description:**

This attribute identifies whether or not to send the new Dialed Number Identification Service (DNIS) protocols to the PBX. This is to distinguish PBXs that can only accept the standard protocol, versus the new protocol. If this bit is set to DBYES on RC View 5.1, the following protocols are sent, dependent upon the type of signaling used.

* DTMF - *ANI*DN* or **DN* or *ANI** or ***, depending on the information available
* MF - DN, without KP + ST

SFID271 must be unlocked via RC View 8.22 before spc_pbx may be set to DBYES.

**Attribute:**

dal_access

**Fullname:**

Direct Access Links (DAL) indicator

**Attribute Description:**

This attribute, if set to DBYES on RC View 5.1, indicates the Direct Access Links (DAL) feature is allowed for this trunk group.

SFID126 and SFID272 must be unlocked via RC View 8.22 before dal_access may be set to DBYES.

**Attribute:**

ct_trig

**Fullname:**

Cutthrough trigger

**Attribute Description:**

Trigger number to allow for triggering on feature group D (FGD) cutthrough calls

**Attribute:**

passani

**Fullname:**

Pass Automatic Number Identification (ANI) indicator

**Attribute Description:**

When this indicator is set to DBYES, then 2-stage Equal Access Multi-Frequency (EAMF) signaling will be used, that is, the ANI, if available, will be sent, on calls egressing the Long Distance Platform (LDP) network on a Local Area Transport Area (LATA) MF trunk to a Local Exchange Carrier (LEC) or a Private Branch Exchange (PBX).

When this indicator is set to DBNO, then the ANI may not be sent to the LEC or PBX (or the situation does not apply). Note that the ANI is normally sent to an Inter-Exchange Carrier (IC).

**Attribute:**

pref_npa

**Fullname:**

prefix NPA

**Attribute Description:**

This field is used to determine which NPA (if any) will be prefixed to a seven-digit destination number incoming to the switch on a LATA trunk.

**Attribute:**

dnis_user

**Fullname:**

Dialed Number Identification Service II (DNIS II) end user

**Attribute Description:**

This attribute, if set to DBYES, identifies a DNIS subscribed trunk for the Transport of Original Dialed Number feature. The original dialed number shall be sent out to the PBX as follows:

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PRI: At the terminating switch for PRI, in the Called Party Number Information Element of the Q.931 message.

MF: At the terminating switch for MF, in the Called Party Number signaling.

SFID498 must be unlocked before dnis_user may be set to DBYES. SFID498 is temporary and will only be supported in 5E13 BMI. Beginning in 5E13 SU, SFID498 will be replaced with SFID271.

**Attribute:**
acctprompt
**Fullname:**
Long Distance Platform (LDP) account code feature prompt
**Attribute Description:**
This attribute provides the LDP Account Code prompt type for incoming or two-way trunk groups where the LDP Account Code feature is active for the 400Hz Carrier Tone feature.

The following prompt types can be provided:

BEEP2: account code prompt of two audible beeps
ANNC: SAS announcement
CARRIER: 400Hz carrier tone
GLOBAL: prompt type assigned value of Glactprmpt

SFID498 must be unlocked before acctprompt may be assigned any value other than GLOBAL. SFID498 is temporary and will only be supported in 5E13 BMI. Beginning in 5E13 SU, SFID498 will be replaced with SFID165.

**Attribute:**
ct_for_dt
**Fullname:**
400Hz carrier tone for dial tone
**Attribute Description:**
Activation status for carrier tone to be applied instead of dial tone for an incoming or a 2-way trunk group.

**Attribute:**
ctxid
**Fullname:**
Context Identifier
**Attribute Description:**
This attribute indicates if the trunk associated with this tuple is unbundled or resold. A trunk is unbundled if ctxid = CTXID_UNBNLD; it is resold if ctxid = CTXID_RESOLD.

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**Attribute:**
ldpsp1
**Fullname:**
Spare bit 1
**Attribute Description:**
A spare bit for future expansion

**Attribute:**
ldpsp2
**Fullname:**
Spare bit 2
**Attribute Description:**
A spare bit for future expansion

**Attribute:**
ldpsp3
**Fullname:**
Spare bit 3
**Attribute Description:**
A spare bit for future expansion

Corresponding tuples should have the same value for this attribute.

**Attribute:**
enh_psap_sig
**Fullname:**
Enhanced Public Safety Answering Point Signaling
**Attribute Description:**
This attribute is used to indicate that a trunk designated as a CAMA PSAP is using enhanced CAMA signaling. The cama_psap attribute must also be DBYES if this attribute is DBYES. This attribute can only be set to DBYES when the secured feature FGD Interface to E911 has been purchased ( SFID 299 is active ). SFID 299 is dependent on SFID 61.

**Attribute:**
tendigonly
**Fullname:**
E911 CAMA PSAP outpulse 10 digit only indicator
**Attribute Description:**
This attribute contains the E911 CAMA PSAP outpulse 10 digit only indicator. The enh_psap_sig attribute must be DBYES if this attribute is DBYES. When the tendigonly attribute is DBYES, only 10 digits will be outpulsed to the PSAP. If the tendigonly attribute is DBNO and enh_psap_sig attribute is DBYES, 20 digits will be outpulsed to the PSAP.

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**Attribute:**
cal_state
**Fullname:**
CALEA surveillance assignment state.
**Attribute Description:**
This field is used to indicate the assignment state for CALEA trunks for a specific case. If CRES, the trunk has not been assigned to a case. If CTONE, the trunk has been assigned to a specific case and the trunk may not be deleted.

**Attribute:**
inhibit_del
**Fullname:**
Inhibit Deletion
**Attribute Description:**
Inhibit deletion of trunk member. If inhibit_del is DBYES, deletion of member will be inhibited. See rc-oda-rules.

**Attribute:**
eonbill_dn
**Fullname:**
End Office Nodal (EON) Billing Number
**Attribute Description:**
The EON billing number is a ten digit DN which will be used to populate the ChargeNumber parameter of the TCAP Info_Collect message. When populated, eon_plan must also be populated. The format is NPA-XXX-XXXX.

SFID 515, must first be unlocked in order to assign this field a value.

**Attribute:**
eon_plan
**Fullname:**
End Office Nodal (EON) Numbering Plan
**Attribute Description:**
Numbering plan for the EON billing number. It identifies the numbering plan as ISDN or Action Point Number (APN). When populated eonbill_dn must also be populated.

SFID 515, must first be unlocked in order to assign this field a value.

**Attribute:**
eonpriv_ind
**Fullname:**
End Office Nodal (EON) Privacy Indicator

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**Attribute Description:**
Privacy indicator for the EON billing number. When set to DBYES it identifies the number as private.

**Attribute:**
eonpref_ind
**Fullname:**
End Office Nodal (EON) Prefix Indicator
**Attribute Description:**
When this indicator is set to DBYES, the FAR END NPA will be prefixed to a seven-digit dialed number incoming to the 5ESS-2000 switch on an EOLN2 trunk.

SFID 515 must first be unlocked in order to assign a value to this field.

**Attribute:**
rel_link_init
**Fullname:**
Release Link indicator
**Attribute Description:**
Indicates whether this trunk is eligible for Release Link processing.

**Defines:**
"db/DMnpanxx.h",
"db/DMpcidx.h",
"db/DMparty.h",
"db/DMlinkno.h",
"db/DMvpidb.h"

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# FC_WZ1

## 1. Description

World zone one region digit lookup for CI.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
FC_WZ1      relid = 68    DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL

     npa         DMNPA        (array [ 3 ] of char )     <--- key
     wz1_r_dig   DMDIGIT      (char)
         User, Compacted and Stored Tuple Layout FC_WZ1
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                      npa                      |   wz1_r_dig   |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLfc_wz1

**Relation Description** World zone one region digit lookup for CI.
World zone one region digit lookup for Carriers which provide connection between LATAs and serving areas where the calling and called customers are located in World Zone 1.

One can dial 1+npa+directory number for Alaska, Hawaii, Canada, Mexico, Caribbean, and Puerto Rico.

**Attribute: npa**

**Fullname:** world zone one area code

**Attribute Description** World zone one area code. The current NPAs are for Alaska (907), Hawaii (808), Canada (403, 604 204, 506, 709, 902, 519, 705, 613, 416, 514, 418, 306, 819, and 807), Mexico (706 and 905), and the Caribbean, including Puerto Rico (809). Other NPAs may be added as network conditions require.

**Attribute: wz1_r_dig**

**Fullname:** world zone one region digit

**Attribute Description** World zone one region digit.Ranges from 0 to 9.

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# FCCAVCTK

## 1. Description

Feature control CAMA verification trunk information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 1024 |
| page level | 0 |

## 3. Field Layout

```
FCCAVCTK    relid = 233   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL

     port        DMGPORT      (struct)     <--- key
         member      DMGPORT       (ushort)
         module      DMMODULE     (ushort: 8)
 (a) trf_samp    DMBOOL       (enum: 1)
 (b) ffcf1       DMBOOL       (enum: 1)
 (c) ffcf2       DMBOOL       (enum: 1)
 (d) ffcf3       DMBOOL       (enum: 1)
 (e) ffcf4       DMBOOL       (enum: 1)
     vcdata      DMVC_DATA    (struct)
 (f)     offcnt      DMUNS3       (ushort: 3)
         orignpa     DMNPA        (array [ 3 ] of char )
         offcode     DMOFFCODE    (array [ 24 ] of char )
         User, Compacted and Stored Tuple Layout   FCCAVCTK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============  port ============+===============|
    |                                |                |               |
  0 |              member            |****************|     module    |
    |================+===============+================+===============|
    | | | | | |                                                       |
  4 |a|b|c|d|e|*******************************************************|
    |================+============  vcdata ===========+===============|
    |                          |     |                                |
  8 |**************************|  f  |            orignpa             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                 |                                              |
 12 |    orignpa      |                    offcode                   |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                |
 16 |                             offcode                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                |
 20 |                             offcode                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                |
```

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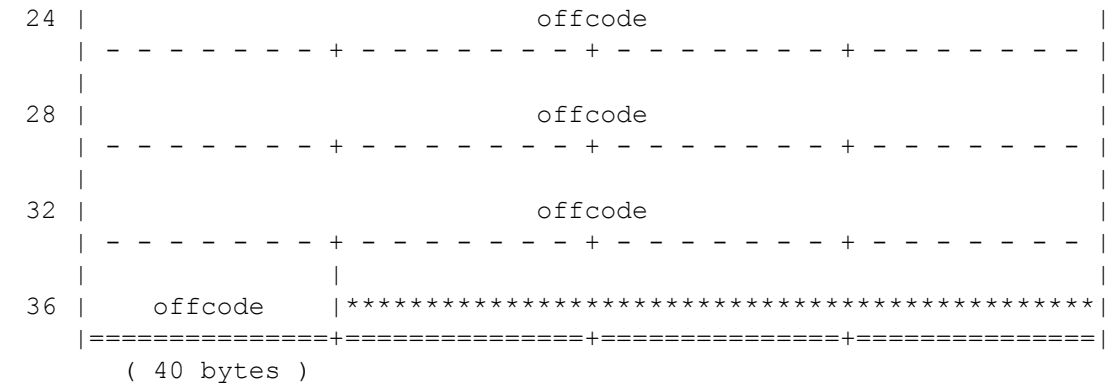


## 4. Population Rules for RLfccavctk

**Relation Description** Feature control CAMA verification .
Feature control CAMA verification trunk information.

**Attribute: port**

**Fullname:** Port.

**Attribute Description** This attribute is divided into sub-attributes port.member and port.module. Member is the port name of the trunk. Module refers to the Switching Module number with possibilities from 1 to 192. All incoming CAMA trunks have a tuple in this relation. (that is, for each tuple in FC_PORTTYP with a class of service of FCCA_ANI or FCCA_ONI, a corresponding tuple exists in this relation.)

**Attribute: port.member**

**Fullname:** member.

**Attribute Description** Trunk member.

**Attribute: port.module**

**Fullname:** Module.

**Attribute Description** Residing Switching Module.

**Attribute: vcdata**

**Fullname:** Valid office data.

**Attribute Description** This attribute is divided into sub-attributes vcdata.offcnt, vcdata.orignpa, and vcdata.offcode. Offcnt is the number of office codes supported by this CAMA trunk (maximum of 8). This is a 3-bit field with an 8 represented by a 0. Orignpa is the area code for the subtending CAMA office supported by this port. Offcode is an array (max of 24) which stores the office codes supported by the subtending office. These office codes are used to verify CAMA billing numbers. Each office code is stored as a three-digit string indexed by offcnt. (For example, if offcnt = 2 then offcode contains 6 digits.) Non-used array elements are set to NULL. All members of a trunk group must have identical vcdata attributes and which must also match the vcdata attribute in the RLRCTGRPRK relation.

**Attribute: vcdata.offcnt**

**Fullname:** Office count.

**Attribute Description** Digits count.

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**Attribute: vcdata.orignpa**

**Fullname:** Originating NPA,

**Attribute Description** Originating NPA.

**Attribute: vcdata.offcode**

**Fullname:** Office code.

**Attribute Description** Office code.

**Attribute: trf_samp**

**Fullname:** Traffic sampled.

**Attribute Description** This attribute is set to DBYES if this CAMA trunk is traffic sampled.

**Attribute: ffcf[*]**

**Fullname:** Future feature reserve.

**Attribute Description** Boolean reserved for future field feature.

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# FCCC_ISC

## 1. Description

This relation maps the country code to an international switching center.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 2 |

## 3. Field Layout

```
FCCC_ISC    relid = 1145  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL

     cc          DMTCSCC      (ushort: 10)     <--- key
     isc         DMISC        (ushort: 5)
         User and Compacted Tuple Layout   FCCC_ISC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |         |                                 |
  0 |         cc        |   isc   |*********************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
     cc          DMTCSCC      (ushort: 10)     <--- key
     isc         DMISC        (ushort: 5)
           Stored Tuple Layout     FCCC_ISC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |         |                                 |
  0 |         cc        |   isc   |*********************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLfccc_isc

**Relation Description** CC to ISC mapping.
Mapping of Country Code to a 2-digit prefix that identifies the International Switching Center:

This relation will only contain country codes that may be incorrectly routed.

**Attribute: cc**

**Fullname:** Country Code

**Attribute Description** 1 to 3-digit key

**Attribute: isc**

**Fullname:** International Switching Center

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**Attribute Description** A prefix that identifies the International Switching Center:

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# FCCMN_G

## 1. Description

This relation contains the feature data for trunks. This is a child storage relation for RLfc_trunk that contains attributes that are common for trunks across multiple trunk groups.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 12096 |
| expected tuples | 100 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTORAGE |
| ks key store | AUTO |
| foldtype | DBGC31 |
| gkidxrel GK-index relation | rlCMN_I |

## 3. Field Layout

```
FCCMN_G     relid = 2117  DBSTORAGE  DBACC_GK    DBPRAM    FP      NULL


    gkFCCMN_G   DMGK14       (ulong: 14)       <--- key, not stored
    screen_x    DMSCRNIDX    (ushort: 12)
(a) in_startsig  DMSTARTSIG   (enum: 4)
    unitnum     DMUNITNO     (ushort: 8)
    interf_id   DMUNS8       (ushort: 8)
    unitype     DMUNITTYPE   (enum: 7)
(b) idle_state  DMPORT_STATE (enum: 1)
(c) out_startsig  DMSTARTSIG   (enum: 4)
(d) vpa_type    DMVPA_TYPE   (enum: 4)
(e) hardware    DMFC_HWARE   (enum: 3)
(f) wb_rate     DMWB_RATE    (enum: 3)
(g) ln_type     DMLNTYPE     (enum: 2)
(h) rcd_3pt1_itc  DMRCD_3PT1   (enum: 2)
(i) wbtsa_type  DMWBTSA_TYPE (enum: 2)
(j) eon_plan    DMEON_PLAN   (enum: 2)
(k) ltm_type    DMLTM_TYPE   (enum: 1)
(l) cut_thru    DMBOOL       (enum: 1)
(m) time_flash  DMBOOL       (enum: 1)
(n) hold_busy   DMBOOL       (enum: 1)
(o) ext_guard   DMBOOL       (enum: 1)
(p) sdnded      DMBOOL       (enum: 1)
(q) sgd         DMBOOL       (enum: 1)
(r) ans_delay   DMBOOL       (enum: 1)
(s) unres_ea    DMBOOL       (enum: 1)
(t) pvnterm     DMBOOL       (enum: 1)
(u) privacy     DMBOOL       (enum: 1)
(v) cpn_rstrct  DMBOOL       (enum: 1)
(w) chg_rstrct  DMBOOL       (enum: 1)
(x) uuiic_rstrct  DMBOOL       (enum: 1)
(y) atpic_rstrct  DMBOOL       (enum: 1)
(z) cfn_rstrct  DMBOOL       (enum: 1)
(A) lsdel_ans   DMBOOL       (enum: 1)
(B) ffcf5       DMBOOL       (enum: 1)
```

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```
(C) ffcf6       DMBOOL       (enum: 1)
(D) ffcf7       DMBOOL       (enum: 1)
(E) ln_virt_on  DMBOOL       (enum: 1)
(F) cama_psap   DMBOOL       (enum: 1)
(G) rdta_port   DMBOOL       (enum: 1)
(H) asi_use     DMBOOL       (enum: 1)
(I) cont_test   DMBOOL       (enum: 1)
(J) spbool2     DMBOOL       (enum: 1)
(K) mltislcopt  DMBOOL       (enum: 1)
(L) enh_psap_sig  DMBOOL       (enum: 1)
(M) tendigonly  DMBOOL       (enum: 1)
(N) eonpriv_ind  DMBOOL       (enum: 1)
(O) eonpref_ind  DMBOOL       (enum: 1)
    eonbill_dn  DMDN         (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
        User and Compacted Tuple Layout    FCCMN_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 0 |*********************************|         gkFCCMN_G             |
   |---------------+---------------+---------------+---------------|
   |                       |       |               |               |
 4 |        screen_x       |   a   |    unitnum    |   interf_id   |
   |---------------+---------------+---------------+---------------|
   |             | |       |       |     |     |   |   |   |   | | |
 8 |   unitype   |b|   c   |   d   |  e  |  f  | g | h | i | j |k|l|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | |     |
12 |m|n|o|p|q|r|s|t|u|v|w|x|y|z|A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|*****|
   |===============+=========  eonbill_dn =========+===============|
   |       |       |                                               |
16 | digcnt|*******|                      dn                       |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
20 |                             dn                                |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
24 |                             dn                                |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
28 |                             dn                                |
   |===============+===============+===============+===============|
     ( 32 bytes )


    screen_x    DMSCRNIDX    (ushort: 12)
(a) in_startsig  DMSTARTSIG   (enum: 4)
    unitnum     DMUNITNO     (ushort: 8)
    interf_id   DMUNS8       (ushort: 8)
    unitype     DMUNITTYPE   (enum: 7)
(b) idle_state  DMPORT_STATE (enum: 1)
(c) out_startsig  DMSTARTSIG   (enum: 4)
```

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```
(d) vpa_type     DMVPA_TYPE    (enum: 4)
(e) hardware     DMFC_HWARE    (enum: 3)
(f) wb_rate      DMWB_RATE     (enum: 3)
(g) ln_type      DMLNTYPE      (enum: 2)
(h) rcd_3pt1_itc  DMRCD_3PT1    (enum: 2)
(i) wbtsa_type   DMWBTSA_TYPE  (enum: 2)
(j) eon_plan     DMEON_PLAN    (enum: 2)
(k) ltm_type     DMLTM_TYPE    (enum: 1)
(l) cut_thru     DMBOOL        (enum: 1)
(m) time_flash   DMBOOL        (enum: 1)
(n) hold_busy    DMBOOL        (enum: 1)
(o) ext_guard    DMBOOL        (enum: 1)
(p) sdnded       DMBOOL        (enum: 1)
(q) sgd          DMBOOL        (enum: 1)
(r) ans_delay    DMBOOL        (enum: 1)
(s) unres_ea     DMBOOL        (enum: 1)
(t) pvnterm      DMBOOL        (enum: 1)
(u) privacy      DMBOOL        (enum: 1)
(v) cpn_rstrct   DMBOOL        (enum: 1)
(w) chg_rstrct   DMBOOL        (enum: 1)
(x) uuiic_rstrct  DMBOOL       (enum: 1)
(y) atpic_rstrct  DMBOOL       (enum: 1)
(z) cfn_rstrct   DMBOOL        (enum: 1)
(A) lsdel_ans    DMBOOL        (enum: 1)
(B) ffcf5        DMBOOL        (enum: 1)
(C) ffcf6        DMBOOL        (enum: 1)
(D) ffcf7        DMBOOL        (enum: 1)
(E) ln_virt_on   DMBOOL        (enum: 1)
(F) cama_psap    DMBOOL        (enum: 1)
(G) rdta_port    DMBOOL        (enum: 1)
(H) asi_use      DMBOOL        (enum: 1)
(I) cont_test    DMBOOL        (enum: 1)
(J) spbool2      DMBOOL        (enum: 1)
(K) mltislcopt   DMBOOL        (enum: 1)
(L) enh_psap_sig  DMBOOL       (enum: 1)
(M) tendigonly   DMBOOL        (enum: 1)
(N) eonpriv_ind  DMBOOL        (enum: 1)
(O) eonpref_ind  DMBOOL        (enum: 1)
    eonbill_dn   DMDN          (struct)
        digcnt       DMDIGCNT     (uchar: 4)
        dn           DMDIGSTRING  (array [ 15 ] of char )
```

Stored Tuple Layout FCCMN_G

```
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                         GK LINK FIELD                         |
   |---------------+---------------+---------------+---------------|
   |                       |       |               |               |
 4 |        screen_x       |   a   |    unitnum    |   interf_id   |
   |---------------+---------------+---------------+---------------|
   |              | |       |       |     |     |   |   |   |   | | |
 8 |   unitype    |b|   c   |   d   |  e  |  f  | g | h | i | j |k|l|
   |---------------+---------------+---------------+---------------|
```

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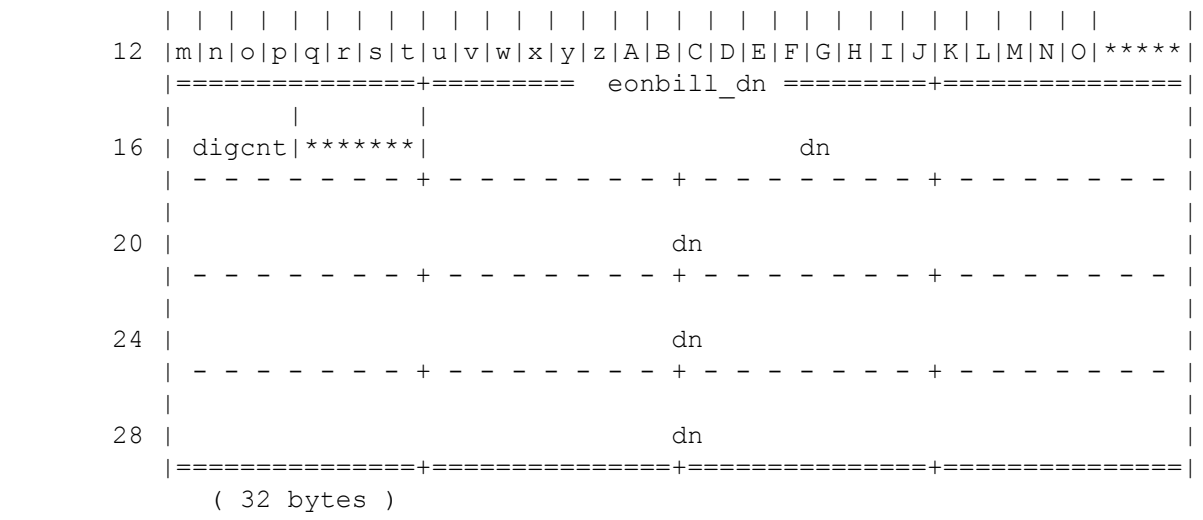


## 4. Population rules for RLfccmn_g

**Relation Description**

There are no population rules for this relation.

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# FCEAINFO

## 1. Description

Equal Access Signaling information digits for international and domestic calls.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 1 |

## 3. Field Layout

```
FCEAINFO    relid = 1146  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL

     iidig       DMIIDIG      (ushort: 7)     <--- key
     intl        DMINFOEA     (enum: 4)
     domes       DMINFOEA     (enum: 4)
         User and Compacted Tuple Layout   FCEAINFO
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               | |       |       |                               |
  0 |    iidig      |*|  intl | domes |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
     iidig       DMIIDIG      (ushort: 7)     <--- key
     intl        DMINFOEA     (enum: 4)
     domes       DMINFOEA     (enum: 4)
           Stored Tuple Layout     FCEAINFO
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               | |       |       |                               |
  0 |    iidig      |*|  intl | domes |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLfceainfo

**Relation Description** EAS information digits for international and domestic calls.
Equal access signaling information digits for international and domestic calls.

As of 5e9(1), this relation could be populated according to the following chart:

| II | Description | Intl | Domes |
|---|---|---|---|
| 00 | Identified Line | FCEA10ANI | FCEA10ANI |
| 01 | ONI (Multiparty) | FCEABLOCK | FCEA3ANI |
| 02 | ANI Failure | FCEABLOCK | FCEA3ANI |

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| | | | |
|---|---|---|---|
| 06 | Hotel/Motel | FCEA10ANI | FCEA10ANI |
| 07 | Coinless, Hospital, etc. | FCEA10ANI | FCEA10ANI |
| 08 | Inter-LATA Restriction | FCEABLOCK | FCEAALW800 |
| 10 | Test Call | FCEABLOCK | FCEATEST |
| 12-19 | Not Assigned, conflict INX | FCEABLOCK | FCEAINC |
| 20 | AIOD | FCEA10ANI | FCEA10ANI |
| 23 | Unknown-Coin or Coinless | FCEABLOCK | FCEA310ANI |
| 24 | Pretranslated 800 Call | FCEABLOCK | FCNONEA |
| 27 | Coin | FCEABLOCK | FCEA310ANI |
| 61 | Cellular Service | FCEA10ANI | FCEA10ANI |
| 68 | Inter-LATA Restr-Hotel/Mot | FCEABLOCK | FCEAALW800 |
| 78 | Inter-LATA Restr-Coinless | FCEABLOCK | FCEAALW800 |
| 95 | Test Call | FCEABLOCK | FCEATEST |

The other international II digits default to FCEABLOCK. The other domestic II digits default to FCNONEA.

**Attribute: iidig**

**Fullname:** Information Digits

**Attribute Description** Key - determines the type of calls that are allowed to be international or domestic outbound.

**Attribute: intl**

**Fullname:** EAS information digits for international calls.

**Attribute Description** Tells what EA calls are allowed based on the information (II) digits.

**Attribute: domes**

**Fullname:** EAS information digits for domestic calls.

**Attribute Description** Tells what EA calls are allowed based on the information (II) digits.

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# FCFT_G

## 1. Description

This relation contains the individual line feature data. This is a child storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16000 |
| expected tuples | 100 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTORAGE |
| ks key store | DBNO |
| foldtype | DBGC31 |
| gkidxrel GK-index relation | rlFCFT_I |

## 3. Field Layout

```
FCFT_G      relid = 1642  DBSTORAGE  DBACC_GK    DBPRAM    LPFPFG  RCMAP


    gkFCFT_G    DMGK14       (ulong: 14)       <--- key, not stored
    pic2        DMBCARID     (ushort: 14)
(a) nodial      DMNODIAL     (enum: 2)
    plc         DMBCARID     (ushort: 14)
(b) one_block   DMONE_BLOCK  (enum: 2)
    pic4        DMBCARID     (ushort: 14)
(c) lpt_type    DMLPT_TYPE   (enum: 2)
    screen_x    DMSCRNIDX    (ushort: 12)
(d) ppm_ind     DMPPM_IND    (enum: 3)
(e) line_screen  DMBOOL       (enum: 1)
    bfgid       DMRCBFGID    (ushort: 12)
(f) ci_dial     DMCI_DIAL    (enum: 3)
(g) brc_trm     DMBOOL       (enum: 1)
    lata        DMILATA      (ushort: 10)
    ffcf21      DMUNS6       (ushort: 6)
    insep       DMINSEP      (ushort: 8)
    desep       DMDESEP      (ushort: 8)
    ffcf20      DMUNS8       (ushort: 8)
    digtree     DMDA_TREE    (ushort: 7)
(h) brc_dn      DMBOOL       (enum: 1)
    signal      DMDIGSIG     (enum: 5)
(i) privacy     DMPRIVACY    (enum: 2)
(j) ltm_type    DMLTM_TYPE   (enum: 1)
(k) trace       DMTRC_TYPE   (enum: 2)
(l) otrace      DMTRC_TYPE   (enum: 2)
(m) epls_pri    DMEPLS_PRI   (enum: 2)
(n) ln_type     DMLNTYPE     (enum: 2)
(o) ctxid       DMCTXID      (enum: 2)
(p) mca         DMBOOL       (enum: 1)
(q) mdc_member  DMBOOL       (enum: 1)
(r) threeway    DMBOOL       (enum: 1)
(s) flash       DMBOOL       (enum: 1)
(t) multidn     DMBOOL       (enum: 1)
```

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```
(u) ani7         DMBOOL       (enum: 1)
(v) pingring     DMBOOL       (enum: 1)
(w) busy         DMBOOL       (enum: 1)
(x) busymon      DMBOOL       (enum: 1)
(y) sercomp      DMBOOL       (enum: 1)
(z) freeterm     DMBOOL       (enum: 1)
(A) roh          DMBOOL       (enum: 1)
(B) orig         DMBOOL       (enum: 1)
(C) fga          DMBOOL       (enum: 1)
(D) optdtail     DMBOOL       (enum: 1)
(E) traffic      DMBOOL       (enum: 1)
(F) denybv       DMBOOL       (enum: 1)
(G) ffcf22       DMBOOL       (enum: 1)
(H) cidcw        DMBOOL       (enum: 1)
(I) ac_standing  DMBOOL       (enum: 1)
(J) ac_onetime   DMBOOL       (enum: 1)
(K) mach_typ     DMBOOL       (enum: 1)
(L) ccv_ind      DMBOOL       (enum: 1)
(M) secm_ind     DMBOOL       (enum: 1)
(N) datat        DMBOOL       (enum: 1)
(O) dn_bfg       DMBOOL       (enum: 1)
(P) trmbfg       DMBOOL       (enum: 1)
(Q) cfv_on       DMBOOL       (enum: 1)
(R) cfbl_on      DMBOOL       (enum: 1)
(S) cfda_on      DMBOOL       (enum: 1)
(T) disp_on      DMBOOL       (enum: 1)
(U) cwo_on       DMBOOL       (enum: 1)
(V) cwt_on       DMBOOL       (enum: 1)
(W) cnd_on       DMBOOL       (enum: 1)
(X) cpnbn_on     DMBOOL       (enum: 1)
(Y) asi_im_on    DMBOOL       (enum: 1)
(Z) bfg_asi      DMBOOL       (enum: 1)
(a) bfg_ars      DMBOOL       (enum: 1)
(b) bfg_puo      DMBOOL       (enum: 1)
(c) bfg_put      DMBOOL       (enum: 1)
(d) bfg_eds      DMBOOL       (enum: 1)
(e) bfg_idp      DMBOOL       (enum: 1)
(f) mfri         DMBOOL       (enum: 1)
(g) ar_alw       DMBOOL       (enum: 1)
(h) ac_alw       DMBOOL       (enum: 1)
(i) cot_alw      DMBOOL       (enum: 1)
(j) ffcf19       DMBOOL       (enum: 1)
(k) pcp_alw      DMBOOL       (enum: 1)
(l) intercept    DMBOOL       (enum: 1)
(m) bfg_sc1      DMBOOL       (enum: 1)
(n) bfg_sc2      DMBOOL       (enum: 1)
(o) lsf_sub      DMBOOL       (enum: 1)
(p) tgsr_on      DMBOOL       (enum: 1)
(q) scr_on       DMBOOL       (enum: 1)
(r) scf_on       DMBOOL       (enum: 1)
(s) sca_on       DMBOOL       (enum: 1)
(t) sda_on       DMBOOL       (enum: 1)
(u) scr_gen_alw  DMBOOL       (enum: 1)
(v) scf_gen_alw  DMBOOL       (enum: 1)
```

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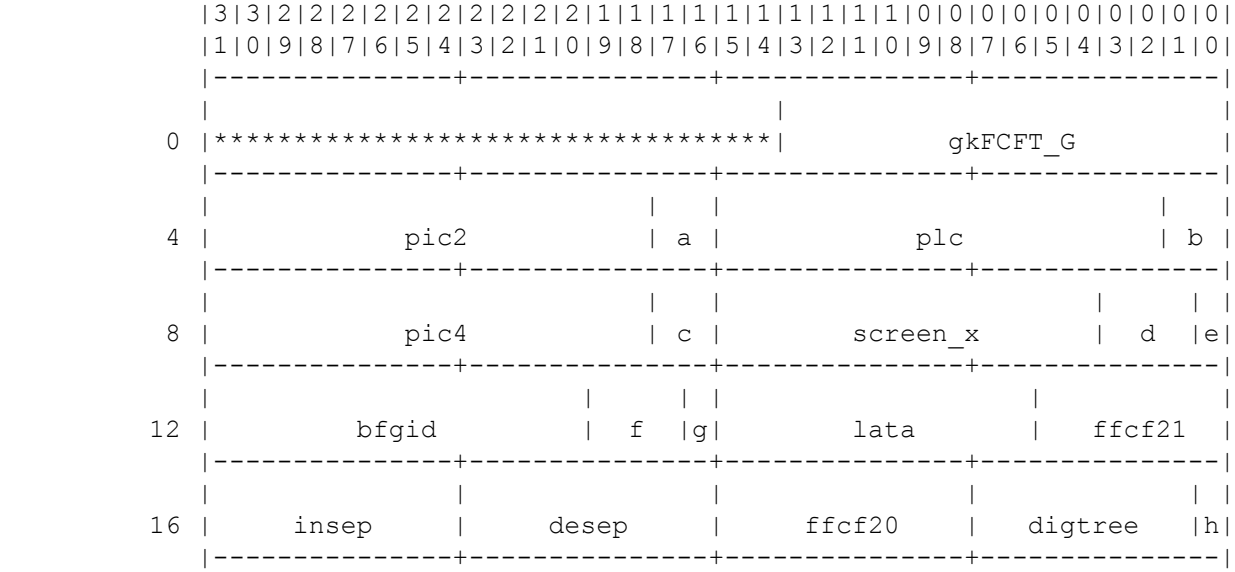
```
(w) sca_gen_alw  DMBOOL       (enum: 1)
(x) sda_gen_alw  DMBOOL       (enum: 1)
(y) ls_alt_lang  DMBOOL       (enum: 1)
(z) erco_asgn    DMBOOL       (enum: 1)
(A) erco_act     DMBOOL       (enum: 1)
(B) britl_alw    DMBOOL       (enum: 1)
(C) ffcf4        DMBOOL       (enum: 1)
(D) ffcf5        DMBOOL       (enum: 1)
(E) ffcf6        DMBOOL       (enum: 1)
(F) mcld_ov      DMBOOL       (enum: 1)
(G) scd_scrn     DMBOOL       (enum: 1)
(H) ffcf10       DMBOOL       (enum: 1)
(I) clss         DMBOOL       (enum: 1)
(J) ucr          DMBOOL       (enum: 1)
(K) ucr_on       DMBOOL       (enum: 1)
(L) dr_ldc       DMBOOL       (enum: 1)
(M) ustwc_alw    DMBOOL       (enum: 1)
(N) ustwc_subscr  DMBOOL       (enum: 1)
(O) ported       DMBOOL       (enum: 1)
(P) o_bltrig_inh  DMBOOL       (enum: 1)
(Q) o_natrig_inh  DMBOOL       (enum: 1)
(R) tsmed        DMBOOL       (enum: 1)
(S) unbundled    DMBOOL       (enum: 1)
(T) ovr_dny_xfer  DMBOOL       (enum: 1)
(U) inhibit_del  DMBOOL       (enum: 1)
(V) cs_on        DMBOOL       (enum: 1)
(W) ffcf11       DMBOOL       (enum: 1)
(X) ffcf12       DMBOOL       (enum: 1)
(Y) ffcf13       DMBOOL       (enum: 1)
(Z) ffcf14       DMBOOL       (enum: 1)
(a) ffcf15       DMBOOL       (enum: 1)
(b) ffcf16       DMBOOL       (enum: 1)
(c) ffcf17       DMBOOL       (enum: 1)
(d) ffcf18       DMBOOL       (enum: 1)
    carrid       DMCARRID     (array [ 4 ] of char )
```

User and Compacted Tuple Layout FCFT_G

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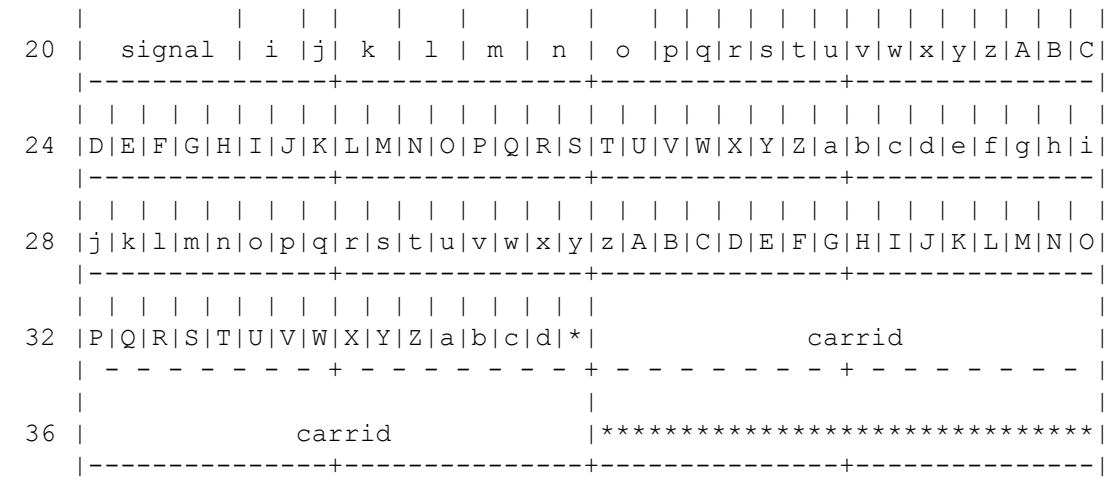


```
    pic2         DMBCARID     (ushort: 14)
(a) nodial       DMNODIAL     (enum: 2)
    plc          DMBCARID     (ushort: 14)
(b) one_block    DMONE_BLOCK  (enum: 2)
    pic4         DMBCARID     (ushort: 14)
(c) lpt_type     DMLPT_TYPE   (enum: 2)
    screen_x     DMSCRNIDX    (ushort: 12)
(d) ppm_ind      DMPPM_IND    (enum: 3)
(e) line_screen  DMBOOL       (enum: 1)
    bfgid        DMRCBFGID    (ushort: 12)
(f) ci_dial      DMCI_DIAL    (enum: 3)
(g) brc_trm      DMBOOL       (enum: 1)
    lata         DMILATA      (ushort: 10)
    ffcf21       DMUNS6       (ushort: 6)
    insep        DMINSEP      (ushort: 8)
    desep        DMDESEP      (ushort: 8)
    ffcf20       DMUNS8       (ushort: 8)
    digtree      DMDA_TREE    (ushort: 7)
(h) brc_dn       DMBOOL       (enum: 1)
    signal       DMDIGSIG     (enum: 5)
(i) privacy      DMPRIVACY    (enum: 2)
(j) ltm_type     DMLTM_TYPE   (enum: 1)
(k) trace        DMTRC_TYPE   (enum: 2)
(l) otrace       DMTRC_TYPE   (enum: 2)
(m) epls_pri     DMEPLS_PRI   (enum: 2)
(n) ln_type      DMLNTYPE     (enum: 2)
(o) ctxid        DMCTXID      (enum: 2)
(p) mca          DMBOOL       (enum: 1)
(q) mdc_member   DMBOOL       (enum: 1)
(r) threeway     DMBOOL       (enum: 1)
(s) flash        DMBOOL       (enum: 1)
(t) multidn      DMBOOL       (enum: 1)
(u) ani7         DMBOOL       (enum: 1)
(v) pingring     DMBOOL       (enum: 1)
(w) busy         DMBOOL       (enum: 1)
(x) busymon      DMBOOL       (enum: 1)
```

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```
(y) sercomp     DMBOOL       (enum: 1)
(z) freeterm    DMBOOL       (enum: 1)
(A) roh         DMBOOL       (enum: 1)
(B) orig        DMBOOL       (enum: 1)
(C) fga         DMBOOL       (enum: 1)
(D) optdtail    DMBOOL       (enum: 1)
(E) traffic     DMBOOL       (enum: 1)
(F) denybv      DMBOOL       (enum: 1)
(G) ffcf22      DMBOOL       (enum: 1)
(H) cidcw       DMBOOL       (enum: 1)
(I) ac_standing  DMBOOL       (enum: 1)
(J) ac_onetime  DMBOOL       (enum: 1)
(K) mach_typ    DMBOOL       (enum: 1)
(L) ccv_ind     DMBOOL       (enum: 1)
(M) secm_ind    DMBOOL       (enum: 1)
(N) datat       DMBOOL       (enum: 1)
(O) dn_bfg      DMBOOL       (enum: 1)
(P) trmbfg      DMBOOL       (enum: 1)
(Q) cfv_on      DMBOOL       (enum: 1)
(R) cfbl_on     DMBOOL       (enum: 1)
(S) cfda_on     DMBOOL       (enum: 1)
(T) disp_on     DMBOOL       (enum: 1)
(U) cwo_on      DMBOOL       (enum: 1)
(V) cwt_on      DMBOOL       (enum: 1)
(W) cnd_on      DMBOOL       (enum: 1)
(X) cpnbn_on    DMBOOL       (enum: 1)
(Y) asi_im_on   DMBOOL       (enum: 1)
(Z) bfg_asi     DMBOOL       (enum: 1)
(a) bfg_ars     DMBOOL       (enum: 1)
(b) bfg_puo     DMBOOL       (enum: 1)
(c) bfg_put     DMBOOL       (enum: 1)
(d) bfg_eds     DMBOOL       (enum: 1)
(e) bfg_idp     DMBOOL       (enum: 1)
(f) mfri        DMBOOL       (enum: 1)
(g) ar_alw      DMBOOL       (enum: 1)
(h) ac_alw      DMBOOL       (enum: 1)
(i) cot_alw     DMBOOL       (enum: 1)
(j) ffcf19      DMBOOL       (enum: 1)
(k) pcp_alw     DMBOOL       (enum: 1)
(l) intercept   DMBOOL       (enum: 1)
(m) bfg_sc1     DMBOOL       (enum: 1)
(n) bfg_sc2     DMBOOL       (enum: 1)
(o) lsf_sub     DMBOOL       (enum: 1)
(p) tgsr_on     DMBOOL       (enum: 1)
(q) scr_on      DMBOOL       (enum: 1)
(r) scf_on      DMBOOL       (enum: 1)
(s) sca_on      DMBOOL       (enum: 1)
(t) sda_on      DMBOOL       (enum: 1)
(u) scr_gen_alw  DMBOOL       (enum: 1)
(v) scf_gen_alw  DMBOOL       (enum: 1)
(w) sca_gen_alw  DMBOOL       (enum: 1)
(x) sda_gen_alw  DMBOOL       (enum: 1)
(y) ls_alt_lang  DMBOOL       (enum: 1)
(z) erco_asgn   DMBOOL       (enum: 1)
```

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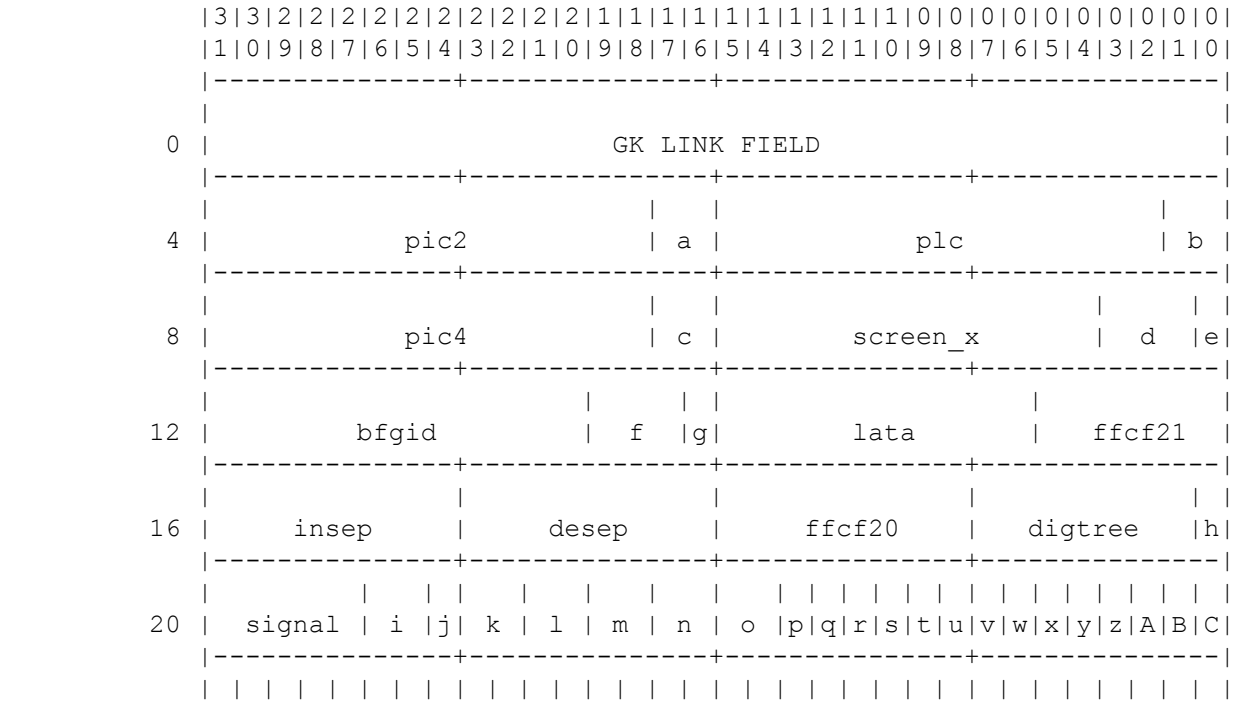
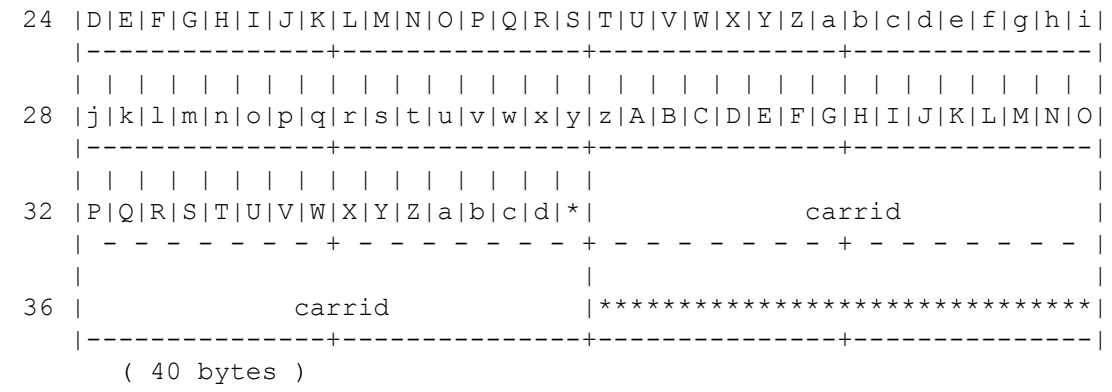
```
(A) erco_act     DMBOOL       (enum: 1)
(B) britl_alw    DMBOOL       (enum: 1)
(C) ffcf4        DMBOOL       (enum: 1)
(D) ffcf5        DMBOOL       (enum: 1)
(E) ffcf6        DMBOOL       (enum: 1)
(F) mcld_ov      DMBOOL       (enum: 1)
(G) scd_scrn     DMBOOL       (enum: 1)
(H) ffcf10       DMBOOL       (enum: 1)
(I) clss         DMBOOL       (enum: 1)
(J) ucr          DMBOOL       (enum: 1)
(K) ucr_on       DMBOOL       (enum: 1)
(L) dr_ldc       DMBOOL       (enum: 1)
(M) ustwc_alw    DMBOOL       (enum: 1)
(N) ustwc_subscr  DMBOOL        (enum: 1)
(O) ported       DMBOOL       (enum: 1)
(P) o_bltrig_inh  DMBOOL        (enum: 1)
(Q) o_natrig_inh  DMBOOL        (enum: 1)
(R) tsmed        DMBOOL       (enum: 1)
(S) unbundled    DMBOOL       (enum: 1)
(T) ovr_dny_xfer  DMBOOL        (enum: 1)
(U) inhibit_del  DMBOOL       (enum: 1)
(V) cs_on        DMBOOL       (enum: 1)
(W) ffcf11       DMBOOL       (enum: 1)
(X) ffcf12       DMBOOL       (enum: 1)
(Y) ffcf13       DMBOOL       (enum: 1)
(Z) ffcf14       DMBOOL       (enum: 1)
(a) ffcf15       DMBOOL       (enum: 1)
(b) ffcf16       DMBOOL       (enum: 1)
(c) ffcf17       DMBOOL       (enum: 1)
(d) ffcf18       DMBOOL       (enum: 1)
    carrid       DMCARRID     (array [ 4 ] of char )
```

Stored Tuple Layout FCFT_G






## 4. Population rules for RLfcft_g

**Relation Description**

There are no population rules for this relation.

# FCGRP_G

## 1. Description

This relation contains the feature data for trunks. This is a root storage relation for RLfc_trunk that contains attributes that are common for trunks in a trunk group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected tuples | 100 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTORAGE |
| ks key store | AUTO |
| foldtype | DBGC31 |
| spare space | 16s |
| gkidxrel GK-index relation | rlGRP_I |

## 3. Field Layout

```
FCGRP_G     relid = 2116  DBSTORAGE  DBACC_GK    DBPRAM    FP      NULL


    gkFCGRP_G   DMGK14       (ulong: 14)       <--- key, not stored
    fac_num     DMUNS17      (ulong: 17)
    apicode     DMUNS14      (ushort: 14)
(a) ani         DMBOOL       (enum: 1)
    trkgmbgid   DMUNS16      (ushort)
    tgroup      DMGRUPNM     (ushort: 13)
    type        DMGRPTYPE    (enum: 3)
    pbx_id      DMPBX_ID     (ushort: 12)
(b) mint_sig    DMMSIGTYPE   (enum: 3)
(c) glare       DMGLARE_ACTN (enum: 1)
    prigrp      DMPRIGRP     (ushort: 12)
(d) e911type    DME911TYPE   (enum: 4)
    esco        DMESCO       (ushort: 10)
(e) in_sigtype  DMDIGSIG     (enum: 5)
(f) rel_link_init  DMBOOL       (enum: 1)
    pci         DMPCIDX      (ushort: 10)
(g) out_sigtype  DMDIGSIG     (enum: 5)
(h) stop_go     DMBOOL       (enum: 1)
    insep       DMINSEP      (ushort: 8)
    trignum     DMUNS8       (ushort: 8)
    ct_trig     DMUNS8       (ushort: 8)
    digtree     DMDA_TREE    (ushort: 7)
(i) brc_trm     DMBOOL       (enum: 1)
    lrn_das     DMDA_TREE    (ushort: 7)
    maxhopcnt   DMUNS5       (ushort: 5)
(j) acctprompt  DMACCTPR     (enum: 3)
(k) brc_dn      DMBOOL       (enum: 1)
(l) ani_type    DMUNS3       (ushort: 3)
(m) datarate    DMDATARATE   (enum: 2)
(n) fgdcicsz    DMSZFGD      (enum: 2)
(o) satellite   DMBOOL       (enum: 1)
(p) std_fxtie   DMFX_TIE     (enum: 2)
```

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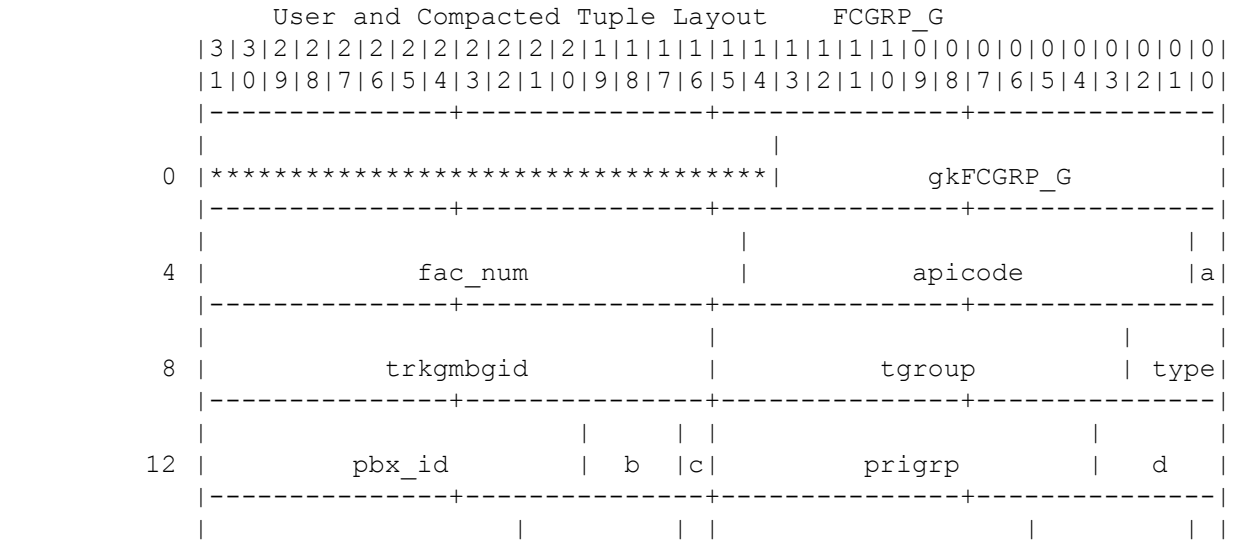
```
(q) mlppstage   DMMLPPST     (enum: 2)
(r) net_indicator  DMNIND       (enum: 2)
(s) pref_npa    DMPREF_NPA   (enum: 2)
(t) ctxid       DMCTXID      (enum: 2)
(u) ccs7_typ    DMCCS7_TYP   (enum: 1)
(v) utt         DMBOOL       (enum: 1)
(w) ffcf1       DMBOOL       (enum: 1)
(x) ffcf2       DMBOOL       (enum: 1)
(y) ffcf3       DMBOOL       (enum: 1)
(z) ffcf4       DMBOOL       (enum: 1)
(A) ani6        DMBOOL       (enum: 1)
(B) ani7        DMBOOL       (enum: 1)
(C) noexinbnd   DMBOOL       (enum: 1)
(D) spbool1     DMBOOL       (enum: 1)
(E) staggered   DMBOOL       (enum: 1)
(F) mai         DMMAI        (enum: 1)
(G) asptoll     DMBOOL       (enum: 1)
(H) far_e911    DMBOOL       (enum: 1)
(I) tdx_trk     DMBOOL       (enum: 1)
(J) term_bill   DMBOOL       (enum: 1)
(K) ani_proc    DMBOOL       (enum: 1)
(L) isupmld     DMBOOL       (enum: 1)
(M) ported      DMBOOL       (enum: 1)
(N) asp_carrtrig  DMBOOL       (enum: 1)
(O) vpn_access  DMBOOL       (enum: 1)
(P) queue_inh   DMBOOL       (enum: 1)
(Q) dal_egress  DMBOOL       (enum: 1)
(R) spc_pbx     DMBOOL       (enum: 1)
(S) dal_access  DMBOOL       (enum: 1)
(T) passani     DMBOOL       (enum: 1)
(U) dnis_user   DMBOOL       (enum: 1)
(V) ct_for_dt   DMBOOL       (enum: 1)
(W) ldpsp1      DMBOOL       (enum: 1)
(X) ldpsp2      DMBOOL       (enum: 1)
(Y) ldpsp3      DMBOOL       (enum: 1)
(Z) mbg_trans   DMBOOL       (enum: 1)
(a) inhibit_del  DMBOOL       (enum: 1)
```

User and Compacted Tuple Layout FCGRP_G

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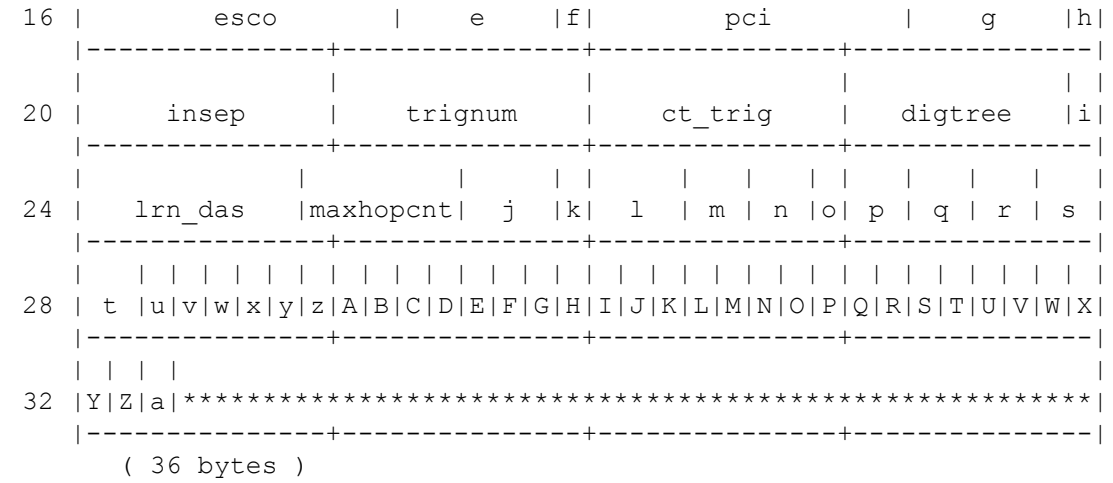


```
    fac_num      DMUNS17       (ulong: 17)
    apicode      DMUNS14       (ushort: 14)
(a) ani          DMBOOL        (enum: 1)
    trkgmbgid    DMUNS16       (ushort)
    tgroup       DMGRUPNM      (ushort: 13)
    type         DMGRPTYPE     (enum: 3)
    pbx_id       DMPBX_ID      (ushort: 12)
(b) mint_sig     DMMSIGTYPE    (enum: 3)
(c) glare        DMGLARE_ACTN  (enum: 1)
    prigrp       DMPRIGRP      (ushort: 12)
(d) e911type     DME911TYPE    (enum: 4)
    esco         DMESCO        (ushort: 10)
(e) in_sigtype   DMDIGSIG      (enum: 5)
(f) rel_link_init  DMBOOL        (enum: 1)
    pci          DMPCIDX       (ushort: 10)
(g) out_sigtype  DMDIGSIG      (enum: 5)
(h) stop_go      DMBOOL        (enum: 1)
    insep        DMINSEP       (ushort: 8)
    trignum      DMUNS8        (ushort: 8)
    ct_trig      DMUNS8        (ushort: 8)
    digtree      DMDA_TREE     (ushort: 7)
(i) brc_trm      DMBOOL        (enum: 1)
    lrn_das      DMDA_TREE     (ushort: 7)
    maxhopcnt    DMUNS5        (ushort: 5)
(j) acctprompt   DMACCTPR      (enum: 3)
(k) brc_dn       DMBOOL        (enum: 1)
(l) ani_type     DMUNS3        (ushort: 3)
(m) datarate     DMDATARATE    (enum: 2)
(n) fgdcicsz     DMSZFGD       (enum: 2)
(o) satellite    DMBOOL        (enum: 1)
(p) std_fxtie    DMFX_TIE      (enum: 2)
(q) mlppstage    DMMLPPST      (enum: 2)
(r) net_indicator  DMNIND        (enum: 2)
(s) pref_npa     DMPREF_NPA    (enum: 2)
(t) ctxid        DMCTXID       (enum: 2)
(u) ccs7_typ     DMCCS7_TYP    (enum: 1)
(v) utt          DMBOOL        (enum: 1)
```

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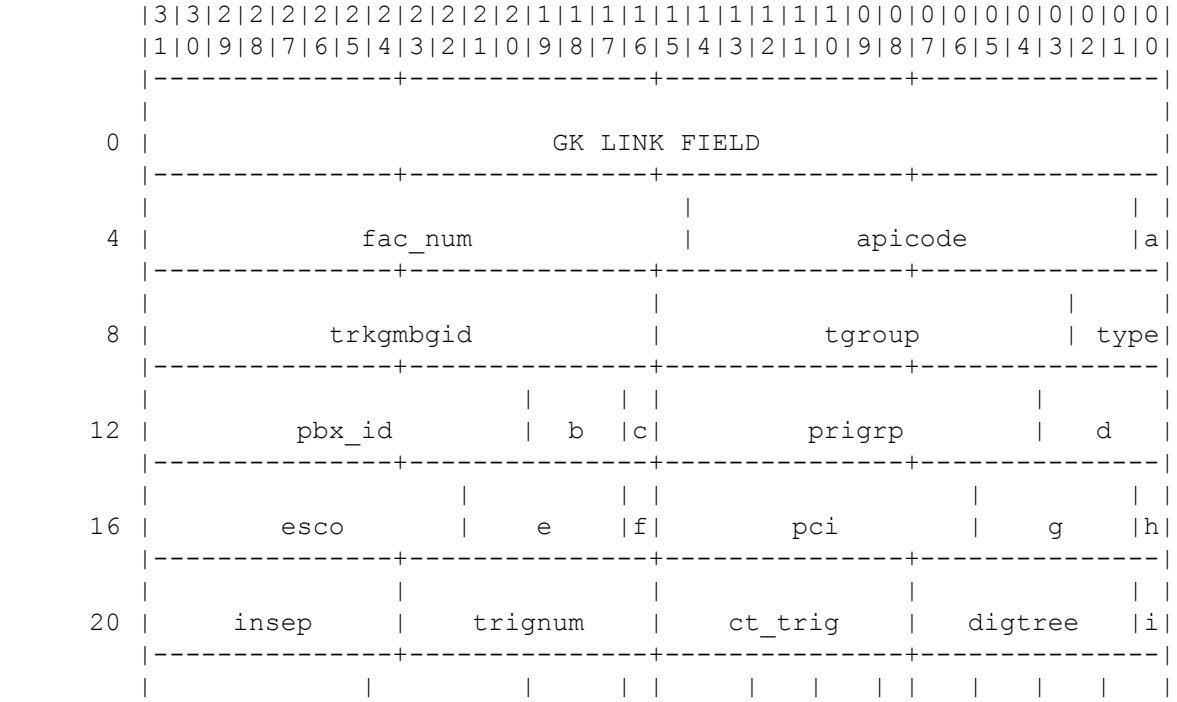
```
(w) ffcf1        DMBOOL       (enum: 1)
(x) ffcf2        DMBOOL       (enum: 1)
(y) ffcf3        DMBOOL       (enum: 1)
(z) ffcf4        DMBOOL       (enum: 1)
(A) ani6         DMBOOL       (enum: 1)
(B) ani7         DMBOOL       (enum: 1)
(C) noexinbnd    DMBOOL       (enum: 1)
(D) spbool1      DMBOOL       (enum: 1)
(E) staggered    DMBOOL       (enum: 1)
(F) mai          DMMAI        (enum: 1)
(G) asptoll      DMBOOL       (enum: 1)
(H) far_e911     DMBOOL       (enum: 1)
(I) tdx_trk      DMBOOL       (enum: 1)
(J) term_bill    DMBOOL       (enum: 1)
(K) ani_proc     DMBOOL       (enum: 1)
(L) isupmld      DMBOOL       (enum: 1)
(M) ported       DMBOOL       (enum: 1)
(N) asp_carrtrig  DMBOOL        (enum: 1)
(O) vpn_access   DMBOOL       (enum: 1)
(P) queue_inh    DMBOOL       (enum: 1)
(Q) dal_egress   DMBOOL       (enum: 1)
(R) spc_pbx      DMBOOL       (enum: 1)
(S) dal_access   DMBOOL       (enum: 1)
(T) passani      DMBOOL       (enum: 1)
(U) dnis_user    DMBOOL       (enum: 1)
(V) ct_for_dt    DMBOOL       (enum: 1)
(W) ldpsp1       DMBOOL       (enum: 1)
(X) ldpsp2       DMBOOL       (enum: 1)
(Y) ldpsp3       DMBOOL       (enum: 1)
(Z) mbg_trans    DMBOOL       (enum: 1)
(a) inhibit_del  DMBOOL        (enum: 1)
```

Stored Tuple Layout FCGRP_G

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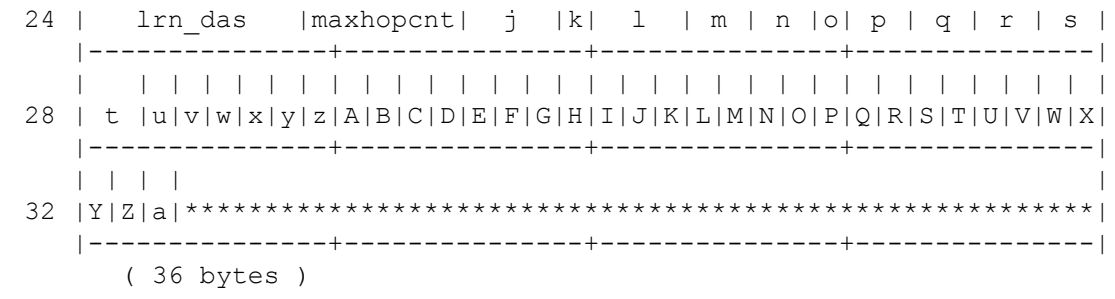


## 4. Population rules for RLfcgrp_g

### Relation Description

There are no population rules for this relation.

# FCHOTMOT

## 1. Description

Hotel motel register.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected tuples in relation | 3 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 9 |

## 3. Field Layout

```
FCHOTMOT    relid = 36    DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL

     port_name   DMGPORT      (struct)     <--- key
         member      DMGPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     mregister   DMGPORT      (struct)
         member      DMGPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout   FCHOTMOT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+========== port_name ==========+===============|
    |                               |                |                |
  0 |              member             |****************|     module     |
    |===============+========== mregister ==========+===============|
    |                               |                |                |
  4 |              member             |****************|     module     |
    |===============+===============+================+===============|
       ( 8 bytes )
```

## 4. Population Rules for RLfchotmot

**Relation Description** Hotel Motel register.

**Attribute: port_name**

**Fullname:** Port name.

**Attribute Description** Name of port controlling hotel motel terminal.

**Attribute: port_name.member**

**Fullname:** Member.

**Attribute Description** Port name representing the line that has a message register assigned to it. This same port_name must be defined in FC_PORTTYP relation and given a 'servclass' of PBXHOTMOT or FC_HOTMOTL. This line should route as all other lines but with a separate charge_index any MBI enumeration is acceptable.

**Attribute: port_name.module**

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**Fullname:** Module.

**Attribute Description** IM number. The  tuple is populated on this module only.

**Attribute: mregister**

**Fullname:** Message Register.

**Attribute Description** Sleeve lead control  of hardware message register.

**Attribute: mregister.member**

**Fullname:** Member.

**Attribute Description** Port name represting  the distributor point of the register. This mregister port name must be defined  in relation FC_PORTTYP with all attributes marked as default values or null except for 'servclass' which should be equal to FC_MSGREG.

The same message register port MAY be assigned to more than one line.

**Attribute: mregister.module**

**Fullname:** Module.

**Attribute Description** IM Module.

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# FCLINE_R

## 1. Description

This relation contains the individual line feature data. This is a root storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 1236 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | RCMAP |
| relation | DBSTORAGE |
| density | 81 |
| l1 length of subkey 1 | 1 |
| p1 position of subkey 1 | 16 |
| l2 length of subkey 2 | 4 |
| p2 position of subkey 2 | 32 |
| l3 length of subkey 3 | 16 |
| p3 position of subkey 3 | 0 |
| ks key store | DBNO |
| cluster | 64 |

## 3. Field Layout

```
FCLINE_R    relid = 1641  DBSTORAGE  DBACC_CIND  DBPRAM    LPFPFG  RCMAP


     port        DMGPORT      (struct)  <--- key, not stored, compacted
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     party       DMPARTY      (ushort: 4)       <--- key, not stored
     lport       DMLPORT      (ushort: 16)
     ltm_idx     DMLTM_IDX    (ulong: 16)
     featkey     DMGK14       (ulong: 14)
     billdnkey   DMGK14       (ulong: 14)
 (a) complaint   DMBOOL       (enum: 1)
 (b) slus        DMBOOL       (enum: 1)
 (c) tmalit_ihb  DMBOOL       (enum: 1)
 (d) tmslim_ihb  DMBOOL       (enum: 1)
     caseindex   DMCASEMAX    (ushort: 9)
     digits      DMCHAR4      (array [ 4 ] of char )
     locdn       DMLOCDN      (struct)  <--- compacted
         noc         DMNOC        (ushort: 14)
         digits      DMLOCDIG     (array [ 4 ] of char )
            User Tuple Layout      FCLINE_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============  port ============+===============|
    |                                |                |               |
  0 |              member            |***************|     module    |
    |================+===============+===============+===============|
    |        |                                                       |
  4 | party  |*******************************************************|
    |--------------+---------------+---------------+---------------|
    |                                |                               |
```

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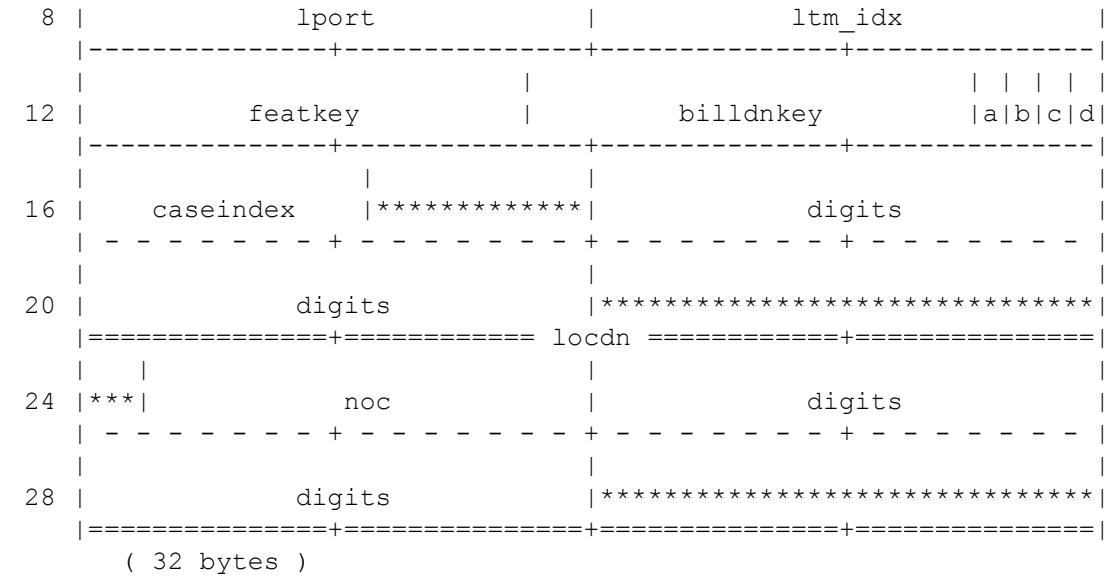
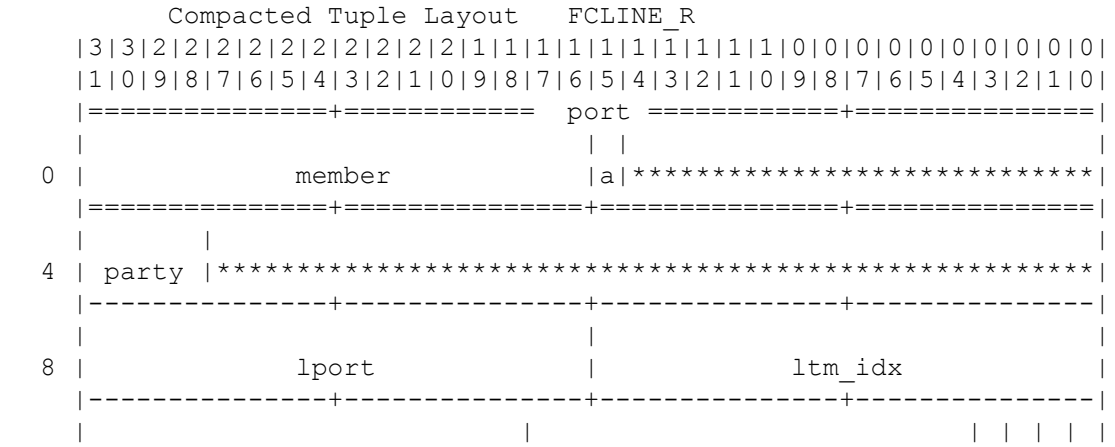
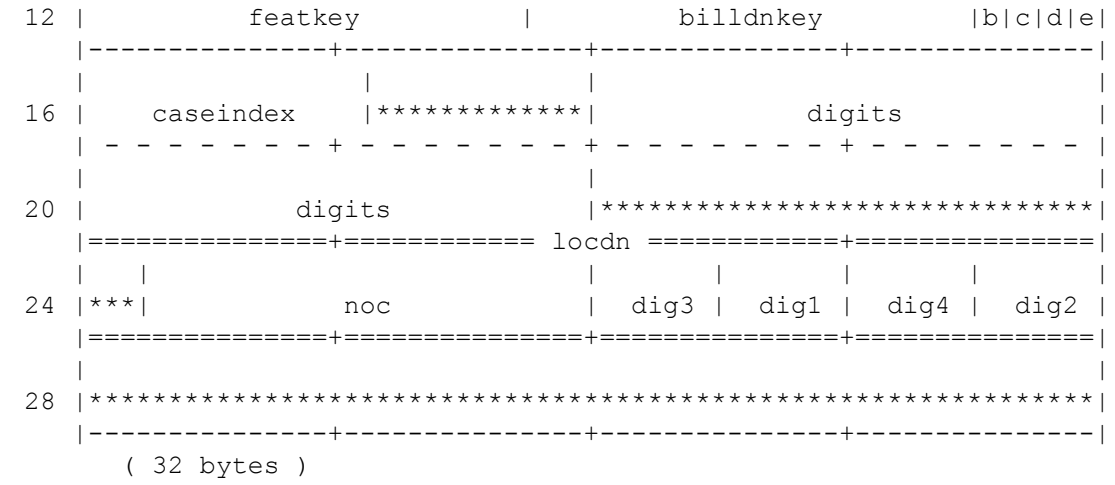
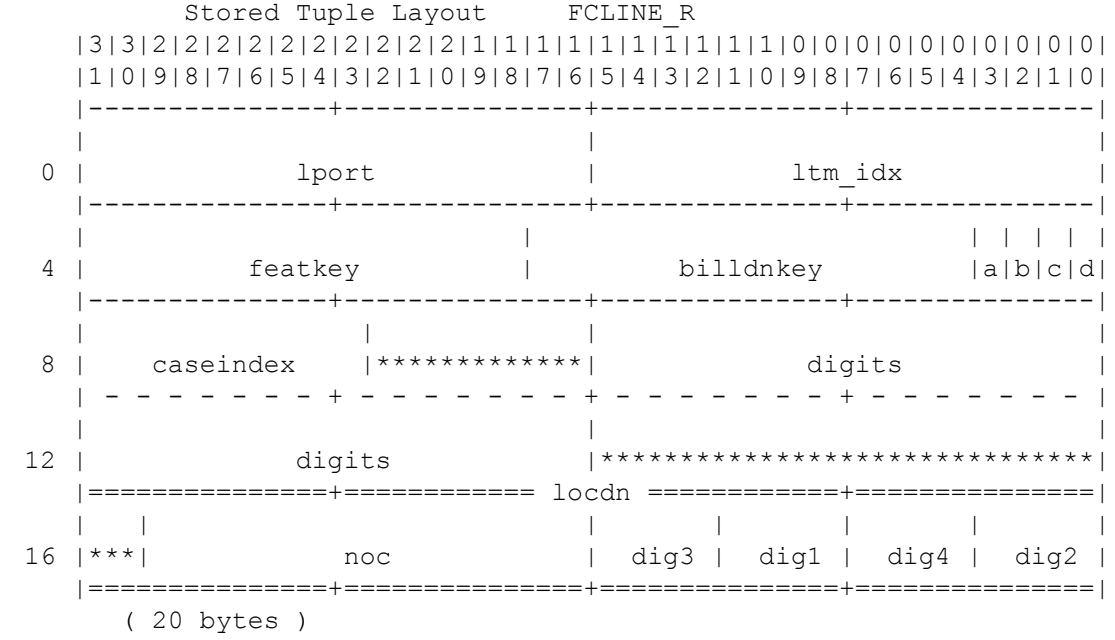



```
    port        DMKPORT      (struct)  <--- key, not stored, compacted
        member      DMPORT       (ushort)
(a)     module      DMBOOL       (enum: 1)
    party       DMPARTY      (ushort: 4)       <--- key, not stored
    lport       DMLPORT      (ushort: 16)
    ltm_idx     DMLTM_IDX    (ulong: 16)
    featkey     DMGK14       (ulong: 14)
    billdnkey   DMGK14       (ulong: 14)
(b) complaint   DMBOOL       (enum: 1)
(c) slus        DMBOOL       (enum: 1)
(d) tmalit_ihb  DMBOOL       (enum: 1)
(e) tmslim_ihb  DMBOOL       (enum: 1)
    caseindex   DMCASEMAX    (ushort: 9)
    digits      DMCHAR4      (array [ 4 ] of char )
    locdn       DMCLOCDN     (struct)  <--- compacted
        noc         DMNOC        (ushort: 14)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
```






```
    lport       DMLPORT      (ushort: 16)
    ltm_idx     DMLTM_IDX    (ulong: 16)
    featkey     DMGK14       (ulong: 14)
    billdnkey   DMGK14       (ulong: 14)
(a) complaint   DMBOOL       (enum: 1)
(b) slus        DMBOOL       (enum: 1)
(c) tmalit_ihb  DMBOOL       (enum: 1)
(d) tmslim_ihb  DMBOOL       (enum: 1)
    caseindex   DMCASEMAX    (ushort: 9)
    digits      DMCHAR4      (array [ 4 ] of char )
    locdn       DMCLOCDN     (struct)  <--- compacted
        noc         DMNOC        (ushort: 14)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
```

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## 4. Population rules for RLfcline_r

**Relation Description**

There are no population rules for this relation.

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# FCNPAMAP

## 1. Description

This relation converts NPA-NXX to a value from 0-12799 which is combined with the line (XXXX) portion of the dn and used to retrieve screening information from the SM indicated by module. The keys are constructed by taking the NPA portion, converting it to binary, and using it as the first key; then taking the NXX portion, converting the result to binary, and using it as the second key. The keys are not stored.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 12800 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| ks store key option | DBNO |

## 3. Field Layout

```
FCNPAMAP    relid = 344   DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL

     bnpa        DMUNS10      (ushort: 10)     <--- key
     bnxx        DMUNS10      (ushort: 10)     <--- key
     latanum     DMLATANUM    (uchar: 5)
 (a) grptype     DMPTYPE      (enum: 1)
     phr_id      DMPHRASE     (ushort)
     lnoc        DMLNOC       (ushort: 14)
 (b) spare       DMBOOL       (enum: 1)
     grupnm      DMGRUPNM     (ushort: 13)
     eai         DMEAIDX      (uchar: 8)
     module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout   FCNPAMAP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                     |           |                     |         | |
  0 |        bnpa         |***********|        bnxx         | latanum |a|
    |---------------+---------------+---------------+---------------|
    |                               |                             | | |
  4 |             phr_id            |             lnoc            |b|*|
    |---------------+---------------+---------------+---------------|
    |                           |     |                 |               |
  8 |           grupnm          |*****|       eai       |     module    |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLfcnpamap

**Relation Description** NPA map
Used to map an NPA-NXX to a Large Normalize Office Code (LNOC) value.

Converts NPA-NXX to a value from 0-12799 which is combined with the line (XXXX) portion of the dn and used to retrieve screening information and/or true billing information for hotels from the SM indicated by module. The keys are constructed by taking the NPA portion, converting it to binary, and using it as the first key: then taking the NXX

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portion, converting it to binary, and using it as the second key.

The average number of tuples for this relation is 1000. The much larger maximum is provided for those OSPS offices with a broad geographic coverage.

Whenever an SM is removed from eligibility, any OSPS screening data MUST be redistributed among the remaining eligible SMs.

Each eligible SM should be indicated no more than the number of times given by MAXMOD = ((number of RLfcnpamap tuples) / (number of eligible SMs)) + 1. The purpose of this restriction is to distribute the screening data across all eligible SMs and divide the load on each SM.

If possible, it would be most efficient to assign screening data for an NPA-NXX to an SM on which calls from that NPA-NXX may terminate. This would eliminate the SM to SM messages necessary to retrieve the screening data for the call.

**Attribute: bnpa**

**Fullname:** binary NPA

**Attribute Description** This is the NPA for the line converted to binary.

**Attribute: bnxx**

**Fullname:** binary NXX

**Attribute Description** This is the NXX for the line converted to binary.

WARNING: NXXs under 200 do not conform to Bellcore Network Standards and may cause routing errors.

**Attribute: lnoc**

**Fullname:** large normalized office code

**Attribute Description** These should be assigned sequentially, beginning at zero as each NPA-NXX is populated. Value 12799 is reserved as the value for terminating exception area entries (see rules for the eai attribute).

**Attribute: module**

**Fullname:** module

**Attribute Description** This is the module number of the SM containing the screening data and/or true billing information for hotels for each NPA-NXX. An eligible SM is defined as an SM which is not an RSM and which is an operational SM, that is, an SM for which there is a type PCMP tuple in RLcktdata which has eqstat set to SMOPER or, alternatively, an SM whose entry in RLmodatt has eqstat = SMOPER and imtype != RSM. OSPS PSMs are considered eligible SMs. Only eligible SMs may be indicated by this attribute. The purpose for the restriction on RSMs is conservation of real-time. The distribution type indicates that eligible SMs should also be SMs which carry OSPS operator traffic, or are PSMs.

Zero is not allowed on the RC/ODA form and is to be mapped to unknown.

**Attribute: grupnm**

**Fullname:** trunk group number

**Attribute Description** trunk group number

**Attribute: grptype**

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**Fullname:** trunk group type

**Attribute Description** trunk group type - TM_TRK If multiple trunk groups serve the same NPA-NXX and exception areas, the exceptional area trunk should be selected. If grupnum is 0, operator initiated delayed calls are not allowed. If grupnum is non-0, operator initiated delayed calls are allowed and grupnum and grptype form a key of type porttype into RLrctgrprk. This determines screen_x and digtree used for the operator entered back number and forward number.

**Attribute: eai**

**Fullname:** exception area index

**Attribute Description** Population Rules for RLfcnpamap (FS-II) EAI and LATANUM attributes. RLfcporttyp.servclass = FC_ISPOPR.

(I) An OSPS Switch with multiple digit tree configuration. (As in an OSPS which resides in the Local network, such as integrated with an Access Tandem)

(1) Glatmap = DBNO (Lata mapping turned off)

(2) Glexdet = DBYES (exception area determination turned on)

(3) Populate entries for ORIGINATING NPA-NXX which are part of the OSPS served area AND is a privileged or compete exception area.

(a) LATANUM = 0 (default)

(b) EAI set to the value representing the area this NPA-NXX belongs to (may not be 0).

(II) An OSPS Switch which does not contain multiple digit trees. (As in an OSPS which resides in the Toll network, such as integrated with a Toll switch).

(1) Glatmap = DBYES (Lata Mapping turned on)

(2) Populate entries for ALL ORIGINATING NPA-NXX which are part of the OSPS served area. These must be populated regardless of the existence of exception areas.

(a) LATANUM set to a value representing the LATA which this NPA-NXX resides. A range from 2-31 (may not be 0).

(b) If this NPA-NXX is an exception area and exception area determination is to be used (Glexdet = DBYES) set EAI to a value representing this area. Otherwise set to 0 (default) to indicate not an exception area.

(3) Populate entries for ALL TERMINATING NPA-NXX which a caller may dial on a 0+7 digit or 1+7 digit basis and which will be routed to the OSPS over a trunk using standard (non-MFJ) operator signaling. When this is done, ISP determines the terminating LATA number from this relation rather than from digit analysis. Without regard to whether a call dialed like this is in the area served by this OSPS, the LATANUM and EAI should be set to appropriate values, as described in the following items a, b and c. If exception area mapping is not done, no entries are needed for TERMINATING NPA-NXX combinations not in the area served by this OSPS if they

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are dialed on a 0+10 Digit or 1+10 Digit basis or if they are dialed on a 7 digit basis and are signaled over trunks using operator equal access signaling.

(a) LATANUM set to a value representing the LATA in which this NPA-NXX resides. Valid entries range from 1-15 (may not be 0). This value must coincide with those values populated for RLdaprmfnl.term_lata for this NPA-NXX.

(b) If this NPA-NXX is an exception area and exception area determination is to be used (Glexdet = DBYES), set EAI to a value representing this area. Otherwise set to 0 (default).

(c) For a TERMINATING ONLY NPA-NXX it is valid to have a non-zero EAI and/or a LATANUM in the range from 1-15. It is not valid for both the EAI and the LATANUM to be zero if grupnm is zero.

(III) Common RLfcnpamap rules (Glatmap = DBNO or DBYES)

(1) Populate entries for all TERMINATING NPA-NXX which are NOT part of the OSPS served area, but are exception areas which this OSPS may terminate calls too.

(a) Glexdet = DBYES (exception area determination turned on)

(b) LATANUM = 1 (outside of OSPS served area)

(c) EAI set to the value representing the area this NPA-NXX belongs to (must be non-zero).

(d) Since this situation is for terminating entries, LNOC, trunk group and SM should be set to their appropriate default values:
LNOC = 12799

(2) EAI entries made into RLfcnpamap depend upon having at least one corresponding tuple in the RLoaexmap relation where the terminating (teai) or originating (oeai) attribute is equal to this EAI.

(3) Many NPA-NXX office codes in a given LATA may be consolidated into one exception area having one EAI representing them. This would be desirable when the exception area treatment is to be the same for all the office codes in this group.

***NOTE:*** Exception Areas refer to both privileged and compete areas where LEC's are allowed to carry inter-LATA traffic. From an AT or Toll switches perspective in the network there is no distinction between the two and are simply referred to as exception areas.

Exception area index: range 0-250.
zero, then the NPA-NXX is not an exception area. If non-zero then eai defines a unique index for a LATA exception area that must appear in a tuple in RLOAEXMAP.

Special cases:
On LATAs that are adjacent to LATAs that the OSPS serves, There must be a tuple for all PRIV (privileged) areas (Extended Area Service) and a tuple for NPA-NXXs which are exception areas but not served by OSPS. In this case, the other attributes may take on any values.

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Default: 0.

**Attribute: latanum**

**Fullname:** LATA number

**Attribute Description** SEE EAI usage also.
LATA number of NPA-NXX. All NPA-NXXs within a given LATA should have the same latanum. This defines the LATA index for a given NPA-NXX. If the NPA-NXX is outside of the area that the OSPS serves then latanum should be 1. Default is 0 when LATA mapping is turned off (Glatmap= DBNO). Range: 2-31 with 0 & 1 having special meaning as stated before

**Attribute: phr_id**

**Fullname:** announcement phrase id

**Attribute Description** This attribute contains the announcement phrase ID used by the Independent Company Announcement Branding feature in providing branding for 0+ intra-LATA calls. The phrase should contain the name of the carrier eligible for branding. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: spare**

**Fullname:** Spare

**Attribute Description** Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

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# FCPCC_CC

## 1. Description

This relation maps the pseudo/paired country code to a country code.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 300 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | DBNO |
| head page size | 256 |
| data page size | 256 |
| page level | 2 |

## 3. Field Layout

```
FCPCC_CC    relid = 1144  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL

 (a) digcnt      DMUNS2       (ushort: 2)     <--- key, not stored
     pcc_cc      DMTCSCC      (ushort: 10)     <--- key, not stored
     cc          DMTCSCC      (ushort: 10)
 (b) cc_len      DMUNS2       (ushort: 2)
 (c) pcc_ind     DMBOOL       (enum: 1)
         User and Compacted Tuple Layout   FCPCC_CC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |   |                   |                                       |
  0 | a |       pcc_cc      |***************************************|
    |---------------+---------------+---------------+---------------|
    |                   |   | |                                     |
  4 |         cc        | b |c|*************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     cc          DMTCSCC      (ushort: 10)
 (a) cc_len      DMUNS2       (ushort: 2)
 (b) pcc_ind     DMBOOL       (enum: 1)
           Stored Tuple Layout     FCPCC_CC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |   | |                                     |
  0 |         cc        | a |b|*************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLfcpcc_cc

**Relation Description** PCC to CC Translations
This relation does the Pseudo/Paired Country Code to Country Code Translation for the traditional 2-stage internation outbound call. The first stage (011 + PCC or 18X) of the signaling will be handled by the regular FC Call Processing through digit translation with destination type of FCIDDDFCA.

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The second stage of the international call will be the address sequence, containing either a Pseudo Country Code (PCC) or a Country Code (CC) and a National Number (NN), that is (KP + PCC/CC + NN + ST).

This relation will be read to accomplish one of two things:

(1) Convert a PCC to a CC or

(2) Determine the length of an incoming CC.

PCC is always 3 digits and a CC can be of variable length ( 1 to 3 digits). Multiple reads of the RLfcpcc_cc relation may be required. The first read will be analyzing all of the 3 digits just collected. If this read is successful and RLfcpcc_cc.pcc_ind is set to DBYES than the address sequence contains the PCC. If a PCC is present in the address sequence it must be replaced with the CC from the same tuple. If RLfcpcc_cc.pcc_ind is set to DBNO then a CC is present in the address sequence. On the other hand, if the first read failed then the first 3 digits were not a PCC or a 3 digit CC. We will read this relation again with only the first 2 digits. If this read successeds then we have a 2 digit CC. If the second read failed then we will read the relation again with the first digit. The read should successed indicating that a 1 digit CC is present. If the third read should fail, this indicates that there was not a valid PCC or CC is present.

This relation will contain all current pseudo/paired country codes and country codes.

All pseudo country codes will have another tuple in this relation for the matching country code. But not all country codes will have a matching (another tuple) pseudo country code."

**Attribute: digcnt**

**Fullname:** Digit Count

**Attribute Description** Key - Number of digits in the pcc_cc attribute.

**Attribute: pcc_cc**

**Fullname:** Pseudo Country Code or Country Code

**Attribute Description** This key could be a 3-digit Pseudo Country Code or a 1 to 3 digit Country Code. Pseudo Country Code (PCC) is the same as Paired Country Code. The PCC and CC are set up to be non-conflicting. That is, if there is a PCC 'XYZ', there will never be a CC which is X, XY, or XYZ.

**Attribute: cc**

**Fullname:** Country Code

**Attribute Description** The cc is the Country Code that the pcc_cc was converted to. If the pcc_cc is a country code then the cc is the same.

**Attribute: cc_len**

**Fullname:** Length of Country Code

**Attribute Description** Indicates length of the CC attribute

**Attribute: pcc_ind**

**Fullname:** PCC Indicator

**Attribute Description** Indicates if the pcc_cc attribute is a pseudo country code

```
DBYES   - Yes, pcc_cc is a pseudo country code
DBNO    - No, pcc_cc is not a pseudo country code
```

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# FCRSMCAR

## 1. Description

RSM/carrier data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 75 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
FCRSMCAR    relid = 809   DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL

    carrid      DMBCARID     (ushort: 14)     <--- key
 (a) featgrp    DMFEATGRP     (enum:  2) < --- key
    domes_di    DMDESTIDX     (ushort:  12)
 (b) intra_ind  DMBOOL       (enum: 1)
 (c) osps_serves  DMBOOL      (enum: 1)
    domes_ri    DMRTEIDX     (ushort: 12)
    trans_ri    DMRTEIDX     (ushort: 12)
    trans_di    DMDESTIDX    (ushort: 12)
    intl_ri     DMRTEIDX     (ushort: 12)
    intl_di     DMDESTIDX    (ushort: 12)
    sac_ri      DMRTEIDX     (ushort: 12)
    sac_di      DMDESTIDX    (ushort: 12)
    ns_ri       DMRTEIDX     (ushort: 12)
    ns_di       DMDESTIDX    (ushort: 12)
    rsm_num     DMMODULE     (ushort: 8)     <--- key
        User, Compacted and Stored Tuple Layout   FCRSMCAR
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                           |   |                       | | |   |
 0 |           carrid          | a |        domes_di       |b|c|***|
   |---------------+---------------+---------------+---------------|
   |                       |       |                       |       |
 4 |        domes_ri       |*******|        trans_ri       |*******|
   |---------------+---------------+---------------+---------------|
   |                       |       |                       |       |
 8 |        trans_di       |*******|        intl_ri        |*******|
   |---------------+---------------+---------------+---------------|
   |                       |       |                       |       |
12 |        intl_di        |*******|         sac_ri        |*******|
   |---------------+---------------+---------------+---------------|
   |                       |       |                       |       |
16 |         sac_di        |*******|         ns_ri         |*******|
   |---------------+---------------+---------------+---------------|
   |                       |       |               |               |
20 |         ns_di         |*******|    rsm_num    |***************|
   |---------------+---------------+---------------+---------------|
```

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```
( 24 bytes )
```

## 4. Population Rules for RLfcrsmcar

**Relation Description** RSM carrier data
Feature Control RSM/Carrier Data

**Attribute: carrid**

**Fullname:** Carrier ID

**Attribute Description** Indicates the carrier identifier.

**Attribute: featgrp**

**Fullname:** Feature Group carrier type

**Attribute Description** Indicates which feature group this carrier belongs to.

**Attribute: rsm_num**

**Fullname:** RSM number

**Attribute Description** RSM number.
All RSMs with the same cluster id as defined by RLmodatt should have the same non-key attribute values for each carrid.

**Attribute: intra_ind**

**Fullname:** Intra_LATA indicator

**Attribute Description** Set to DBYES if the carrier accepts intra_LATA calls, Set to DBNO, otherwise.

**Attribute: osps_serves**

**Fullname:** OSPS serves

**Attribute Description** This indicates that the osps serves calls with the carrier 'carrid' with the back party on the 'rsm_num' SM.
DBYES - serves calls

**Attribute: domes_di**

**Fullname:** Domestic destination index

**Attribute Description** A destination index which results in routing to carrier trunks. 0 means routing to carrier trunks not allowed.

**Attribute: domes_ri**

**Fullname:** Domestic route index

**Attribute Description** A route index which results in routing to carrier trunks. 0 means routing to carrier trunks not allowed.

**Attribute: trans_ri**

**Fullname:** transition calls destination index

**Attribute Description** Transition calls destination index. 0 means routing to carrier trunks not allowed.

**Attribute: trans_di**

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**Fullname:** Transition calls destination index

**Attribute Description** Transition calls destination index. 0 means routing to carrier trunks not allowed.

**Attribute: intl_ri**

**Fullname:** International calls route index

**Attribute Description** International calls route index 0 means routing to carrier trunks not allowed.

**Attribute: intl_di**

**Fullname:** International calls destination index.

**Attribute Description** International calls destination index. 0 means routing to carrier trunks not allowed.

**Attribute: sac_ri**

**Fullname:** SAC calls route index

**Attribute Description** A route index which results in routing to carrier trunks. 0 means routing to carrier trunks not allowed.

**Attribute: sac_di**

**Fullname:** SAC call destination index

**Attribute Description** A destination index which results in routing to carrier trunks. 0 means routing to carrier trunks not allowed.

**Attribute: ns_ri**

**Fullname:** Number Services 800 calls route index

**Attribute Description** A route index which results in routing to carrier trunks. 0 means routing to carrier trunks not allowed.

**Attribute: ns_di**

**Fullname:** Number Services 800 calls destination index

**Attribute Description** A destination index which results in routing to carrier trunks. 0 means routing to carrier trunks not allowed.

**defines:** "db/DMcarr_val.h"

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# FCSCRCDE

## 1. Description

Table text to be displayed for screen codes.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
FCSCRCDE    relid = 345   DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL

     scrncode    DMSCRCDE     (ushort: 10)     <--- key, not stored
     scrntext    DMCHR147     (array [ 147 ] of char )
         User and Compacted Tuple Layout   FCSCRCDE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  0 |      scrncode     |*******************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           scrntext                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
  8 |                           scrntext                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
                                  .
                                  .
                                  .
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
144 |                           scrntext                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                   |           |
148 |                    scrntext                       |***********|
    |---------------+---------------+---------------+---------------|
       ( 152 bytes )
     scrntext    DMCHR147     (array [ 147 ] of char )
           Stored Tuple Layout     FCSCRCDE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                           scrntext                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
  4 |                           scrntext                            |
```

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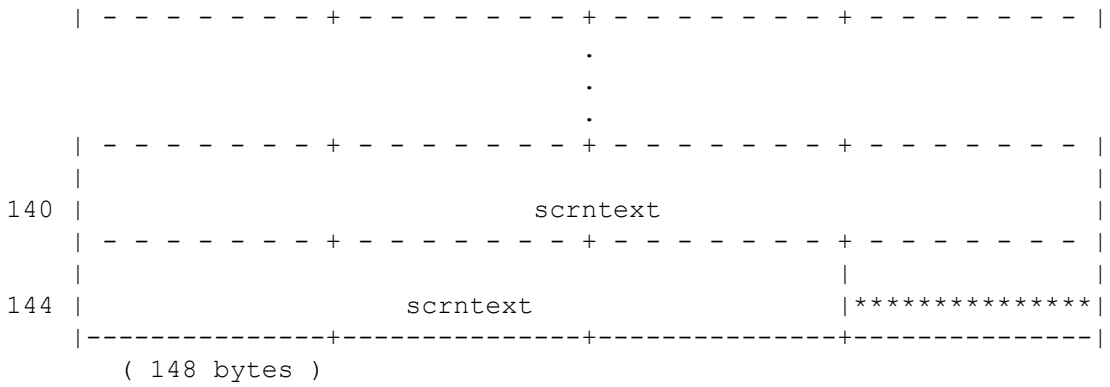


## 4. Population Rules for RLfcscrcde

**Relation Description** Originating line screening (OLS) screen code table.

Relation is used by OLS to associate class-of-charge (COC) screening text with a screen code value.

The distribution class for RLFCSCRCDE is Group Partitioned. Each PSM contains a complete copy of the relation (a PSM is an SM with OSPS operator positions attached). RLFCSCRCDE is not populated in the AM or any SM without attached OSPS operator positions. This means that in RLDB_GPDUS the grp_type should be set to GPD_OSPS and the grp_id should be set to 1.

This relation is heavily interdependent with the RLFCSCRLNE and RLFCSCRRNG relation. As each screened dn is entered in RLFCSCRLNE or RLFCSCRRNG, this relation must be checked to verify that the screen code is populated."

**Attribute: scrncode**

**Fullname:** Screen code

**Attribute Description** 0 for this key means not screened. 999 is reserved for testing.

**Attribute: scrntext**

**Fullname:** screen text: text associated with the screen code to be displayed on the VDT

**Attribute Description** Any printing ASCII characters as comments for display on VDT.

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# FCSCRLNE

## 1. Description

Holds the screen code, coin line bit and routing flag bits associated with a directory number; indexed by large noc (NPA-NXX translation) + line number (XXXX). Key is not stored.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 250000 |
| expected number of tuples | 690 |
| density | 83 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| foldtype | DBGC31 |

## 3. Field Layout

```
FCSCRLNE    relid = 346   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL

     lnoc        DMLNOC       (ushort: 14)     <--- key
 (a) to_pos      DMBOOL       (enum: 1)
 (b) tbnf        DMBOOL       (enum: 1)
     lnnum       DMLINENO     (ushort: 14)     <--- key
 (c) coin_line   DMBOOL       (enum: 1)
 (d) sab         DMBOOL       (enum: 1)
     spare5      DMUNS14      (ushort: 14)
 (e) spare1      DMBOOL       (enum: 1)
 (f) spare2      DMBOOL       (enum: 1)
     scrncode    DMSCRCDE     (ushort: 10)
 (g) origtyp     DMSVC        (enum: 3)
 (h) spare3      DMBOOL       (enum: 1)
 (i) spare4      DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   FCSCRLNE
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                             | | |                             | | |
 0 |             lnoc            |a|b|            lnnum            |c|d|
   |---------------+---------------+---------------+---------------|
   |                             | | |                   |     | | | |
 4 |           spare5            |e|f|      scrncode     |  g  |h|i|*|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population Rules for RLfcscrlne

**Relation Description** FC Screen Line number.

This relation holds the screen code, coin flag bit and routing flag bits associated with a directory number: indexed by large noc (NPA-NXX translation) + line number (XXXX). Key is not stored.

**Attribute: lnoc**

**Fullname:** lnoc

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**Attribute Description** This consists of the lnoc translation for the NPA-NXX for the screened line.

**Attribute: lnnum**

**Fullname:** line number

**Attribute Description** This is the line number, a number from 0000-9999. (Lnoc + lnnum are referred to as lnocdn.)

**Attribute: scrncode**

**Fullname:** Screen Code

**Attribute Description** Any value from 0-999, zero is reserved to mean not screened; screen code 999 is reserved for testing.

**Attribute: to_pos**

**Fullname:** TO operator POSition
**Attribute Description** If all 0+ calls originating from this dn are to be routed to a position, this attribute is set to DBYES; otherwise DBNO. This is a local administration option, not necessarily related to any flags set in RLfcscrcde.

**Attribute: tbnf**

**Fullname:** True Billing Number Flag
**Attribute Description** If there is a true billing number associated with this dn, this attribute is set to DBYES; otherwise DBNO. Whenever this flag is set to DBYES, there must be an entry in RLFCTBNTBL for this lnocdn (subnbr).

**Attribute: coin_line**

**Fullname:** coin line
**Attribute Description** This bit indicates a coin line, which may or may not be screened. If this is not a coin line set to DBNO, otherwise set to DBYES if a coin line.

**Attribute: origtyp**

**Fullname:** ORIGinal station TYPe
**Attribute Description** This is the type of originating station.

**Attribute: sab**

**Fullname:** Subaccount Billing
**Attribute Description** This attribute is set to DBNO if Subaccount Billing is denied; otherwise DBYES.

**Attribute: spare1**

**Fullname:** spare bit 1
**Attribute Description** This attribute is to be used for fast/special features.

**Attribute: spare2**

**Fullname:** spare bit 2
**Attribute Description** This attribute is to be used for fast/special features.

**Attribute: spare3**

**Fullname:** spare bit 3
**Attribute Description** This attribute is to be used for fast/special features.

**Attribute: spare4**

**Fullname:** Spare Bit 4
**Attribute Description** Spare field for fast features. For ALL features, use the space from this field

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before increasing the tuple size of this relation.

**Attribute: spare5**

**Fullname:** Spare Field 5

**Attribute Description** Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

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# FCSCRRNG

## 1. Description

Holds the screen code, coin flag bit, and routing flag bits associated with a range of directory numbers; indexed by large noc (NPA-NXX translation).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 5120 |
| expected number of tuples | 27 |
| density | 61 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
FCSCRRNG    relid = 347   DBSTATIC   DBACC_CIND  DBPRAM
     tupnum      DMUNS7       (ushort: 7)     <--- key
     lnoc        DMLNOC       (ushort: 14)     <--- key
     entries     DMUNS10      (ushort: 10)
     range00     DMLNRNG      (struct)
         begln       DMLINENO     (ushort: 14)
 (a)     spare1      DMBOOL       (enum: 1)
 (b)     spare2      DMBOOL       (enum: 1)
         endln       DMLINENO     (ushort: 14)
 (c)     to_pos      DMBOOL       (enum: 1)
 (d)     coin_lines  DMBOOL       (enum: 1)
         scrncode    DMSCRCDE     (ushort: 10)
 (e)     tbnf        DMBOOL       (enum: 1)
 (f)     origtyp     DMSVC        (enum: 3)
 (g)     sab         DMBOOL       (enum: 1)
 (h)     spare3      DMBOOL       (enum: 1)
 (i)     spare4      DMBOOL       (enum: 1)
         spare5      DMUNS14      (ushort: 14)
     range01     DMLNRNG      (struct)
         begln       DMLINENO     (ushort: 14)
 (j)     spare1      DMBOOL       (enum: 1)
 (k)     spare2      DMBOOL       (enum: 1)
         endln       DMLINENO     (ushort: 14)
 (l)     to_pos      DMBOOL       (enum: 1)
 (m)     coin_lines  DMBOOL       (enum: 1)
         scrncode    DMSCRCDE     (ushort: 10)
 (n)     tbnf        DMBOOL       (enum: 1)
 (o)     origtyp     DMSVC        (enum: 3)
 (p)     sab         DMBOOL       (enum: 1)
 (q)     spare3      DMBOOL       (enum: 1)
 (r)     spare4      DMBOOL       (enum: 1)
         spare5      DMUNS14      (ushort: 14)
     range02     DMLNRNG      (struct)
         begln       DMLINENO     (ushort: 14)
 (s)     spare1      DMBOOL       (enum: 1)
 (t)     spare2      DMBOOL       (enum: 1)
```

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```
        endln       DMLINENO     (ushort: 14)
(u)     to_pos      DMBOOL       (enum: 1)
(v)     coin_lines  DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
(w)     tbnf        DMBOOL       (enum: 1)
(x)     origtyp     DMSVC        (enum: 3)
(y)     sab         DMBOOL       (enum: 1)
(z)     spare3      DMBOOL       (enum: 1)
(A)     spare4      DMBOOL       (enum: 1)
        spare5      DMUNS14      (ushort: 14)
    range03     DMLNRNG      (struct)
        begln       DMLINENO     (ushort: 14)
(B)     spare1      DMBOOL       (enum: 1)
(C)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(D)     to_pos      DMBOOL       (enum: 1)
(E)     coin_lines  DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
(F)     tbnf        DMBOOL       (enum: 1)
(G)     origtyp     DMSVC        (enum: 3)
(H)     sab         DMBOOL       (enum: 1)
(I)     spare3      DMBOOL       (enum: 1)
(J)     spare4      DMBOOL       (enum: 1)
        spare5      DMUNS14      (ushort: 14)
    range04     DMLNRNG      (struct)
        begln       DMLINENO     (ushort: 14)
(K)     spare1      DMBOOL       (enum: 1)
(L)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(M)     to_pos      DMBOOL       (enum: 1)
(N)     coin_lines  DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
(O)     tbnf        DMBOOL       (enum: 1)
(P)     origtyp     DMSVC        (enum: 3)
(Q)     sab         DMBOOL       (enum: 1)
(R)     spare3      DMBOOL       (enum: 1)
(S)     spare4      DMBOOL       (enum: 1)
        spare5      DMUNS14      (ushort: 14)
    range05     DMLNRNG      (struct)
        begln       DMLINENO     (ushort: 14)
(T)     spare1      DMBOOL       (enum: 1)
(U)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(V)     to_pos      DMBOOL       (enum: 1)
(W)     coin_lines  DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
(X)     tbnf        DMBOOL       (enum: 1)
(Y)     origtyp     DMSVC        (enum: 3)
(Z)     sab         DMBOOL       (enum: 1)
(a)     spare3      DMBOOL       (enum: 1)
(b)     spare4      DMBOOL       (enum: 1)
        spare5      DMUNS14      (ushort: 14)
    range06     DMLNRNG      (struct)
        begln       DMLINENO     (ushort: 14)
```

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```
(c)     spare1      DMBOOL       (enum: 1)
(d)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(e)     to_pos      DMBOOL       (enum: 1)
(f)     coin_lines  DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
(g)     tbnf        DMBOOL       (enum: 1)
(h)     origtyp     DMSVC        (enum: 3)
(i)     sab         DMBOOL       (enum: 1)
(j)     spare3      DMBOOL       (enum: 1)
(k)     spare4      DMBOOL       (enum: 1)
        spare5      DMUNS14      (ushort: 14)
    range07     DMLNRNG      (struct)
        begln       DMLINENO     (ushort: 14)
(l)     spare1      DMBOOL       (enum: 1)
(m)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(n)     to_pos      DMBOOL       (enum: 1)
(o)     coin_lines  DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
(p)     tbnf        DMBOOL       (enum: 1)
(q)     origtyp     DMSVC        (enum: 3)
(r)     sab         DMBOOL       (enum: 1)
(s)     spare3      DMBOOL       (enum: 1)
(t)     spare4      DMBOOL       (enum: 1)
        spare5      DMUNS14      (ushort: 14)
    range08     DMLNRNG      (struct)
        begln       DMLINENO     (ushort: 14)
(u)     spare1      DMBOOL       (enum: 1)
(v)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(w)     to_pos      DMBOOL       (enum: 1)
(x)     coin_lines  DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
(y)     tbnf        DMBOOL       (enum: 1)
(z)     origtyp     DMSVC        (enum: 3)
(A)     sab         DMBOOL       (enum: 1)
(B)     spare3      DMBOOL       (enum: 1)
(C)     spare4      DMBOOL       (enum: 1)
        spare5      DMUNS14      (ushort: 14)
    range09     DMLNRNG      (struct)
        begln       DMLINENO     (ushort: 14)
(D)     spare1      DMBOOL       (enum: 1)
(E)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(F)     to_pos      DMBOOL       (enum: 1)
(G)     coin_lines  DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
(H)     tbnf        DMBOOL       (enum: 1)
(I)     origtyp     DMSVC        (enum: 3)
(J)     sab         DMBOOL       (enum: 1)
(K)     spare3      DMBOOL       (enum: 1)
(L)     spare4      DMBOOL       (enum: 1)
        spare5      DMUNS14      (ushort: 14)
```

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```
    range10     DMLNRNG      (struct)
        begln       DMLINENO     (ushort: 14)
(M)     spare1      DMBOOL       (enum: 1)
(N)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(O)     to_pos      DMBOOL       (enum: 1)
(P)     coin_lines  DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
(Q)     tbnf        DMBOOL       (enum: 1)
(R)     origtyp     DMSVC        (enum: 3)
(S)     sab         DMBOOL       (enum: 1)
(T)     spare3      DMBOOL       (enum: 1)
(U)     spare4      DMBOOL       (enum: 1)
        spare5      DMUNS14      (ushort: 14)
    range11     DMLNRNG      (struct)
        begln       DMLINENO     (ushort: 14)
(V)     spare1      DMBOOL       (enum: 1)
(W)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(X)     to_pos      DMBOOL       (enum: 1)
(Y)     coin_lines  DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
(Z)     tbnf        DMBOOL       (enum: 1)
(a)     origtyp     DMSVC        (enum: 3)
(b)     sab         DMBOOL       (enum: 1)
(c)     spare3      DMBOOL       (enum: 1)
(d)     spare4      DMBOOL       (enum: 1)
        spare5      DMUNS14      (ushort: 14)
    range12     DMLNRNG      (struct)
        begln       DMLINENO     (ushort: 14)
(e)     spare1      DMBOOL       (enum: 1)
(f)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(g)     to_pos      DMBOOL       (enum: 1)
(h)     coin_lines  DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
(i)     tbnf        DMBOOL       (enum: 1)
(j)     origtyp     DMSVC        (enum: 3)
(k)     sab         DMBOOL       (enum: 1)
(l)     spare3      DMBOOL       (enum: 1)
(m)     spare4      DMBOOL       (enum: 1)
        spare5      DMUNS14      (ushort: 14)
    range13     DMLNRNG      (struct)
        begln       DMLINENO     (ushort: 14)
(n)     spare1      DMBOOL       (enum: 1)
(o)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(p)     to_pos      DMBOOL       (enum: 1)
(q)     coin_lines  DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
(r)     tbnf        DMBOOL       (enum: 1)
(s)     origtyp     DMSVC        (enum: 3)
(t)     sab         DMBOOL       (enum: 1)
(u)     spare3      DMBOOL       (enum: 1)
```

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```
(v)     spare4      DMBOOL       (enum: 1)
        spare5      DMUNS14      (ushort: 14)
    range14     DMLNRNG      (struct)
        begln       DMLINENO     (ushort: 14)
(w)     spare1      DMBOOL       (enum: 1)
(x)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(y)     to_pos      DMBOOL       (enum: 1)
(z)     coin_lines  DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
(A)     tbnf        DMBOOL       (enum: 1)
(B)     origtyp     DMSVC        (enum: 3)
(C)     sab         DMBOOL       (enum: 1)
(D)     spare3      DMBOOL       (enum: 1)
(E)     spare4      DMBOOL       (enum: 1)
        spare5      DMUNS14      (ushort: 14)
        User, Compacted and Stored Tuple Layout   FCSCRRNG
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |               |                               |   |
 0 |    tupnum     |*****************|             lnoc              |***|
   |---------------+---------------+---------------+---------------|
   |                   |                                           |
 4 |      entries      |*******************************************|
   |===============+=========== range00 ===========+===============|
   |                           | | |                               | | |
 8 |           begln           |a|b|           endln           |c|d|
   |---------------+---------------+---------------+---------------|
   |                   | |     | | | |                             | |
12 |      scrncode     |e|  f  |g|h|i|           spare5          |*|
   |===============+=========== range01 ===========+===============|
   |                           | | |                               | | |
16 |           begln           |j|k|           endln           |l|m|
   |---------------+---------------+---------------+---------------|
   |                   | |     | | | |                             | |
20 |      scrncode     |n|  o  |p|q|r|           spare5          |*|
   |===============+=========== range02 ===========+===============|
   |                           | | |                               | | |
24 |           begln           |s|t|           endln           |u|v|
   |---------------+---------------+---------------+---------------|
   |                   | |     | | | |                             | |
28 |      scrncode     |w|  x  |y|z|A|           spare5          |*|
   |===============+=========== range03 ===========+===============|
   |                           | | |                               | | |
32 |           begln           |B|C|           endln           |D|E|
   |---------------+---------------+---------------+---------------|
   |                   | |     | | | |                             | |
36 |      scrncode     |F|  G  |H|I|J|           spare5          |*|
   |===============+=========== range04 ===========+===============|
   |                           | | |                               | | |
40 |           begln           |K|L|           endln           |M|N|
   |---------------+---------------+---------------+---------------|
   |                   | |     | | | |                             | |
```

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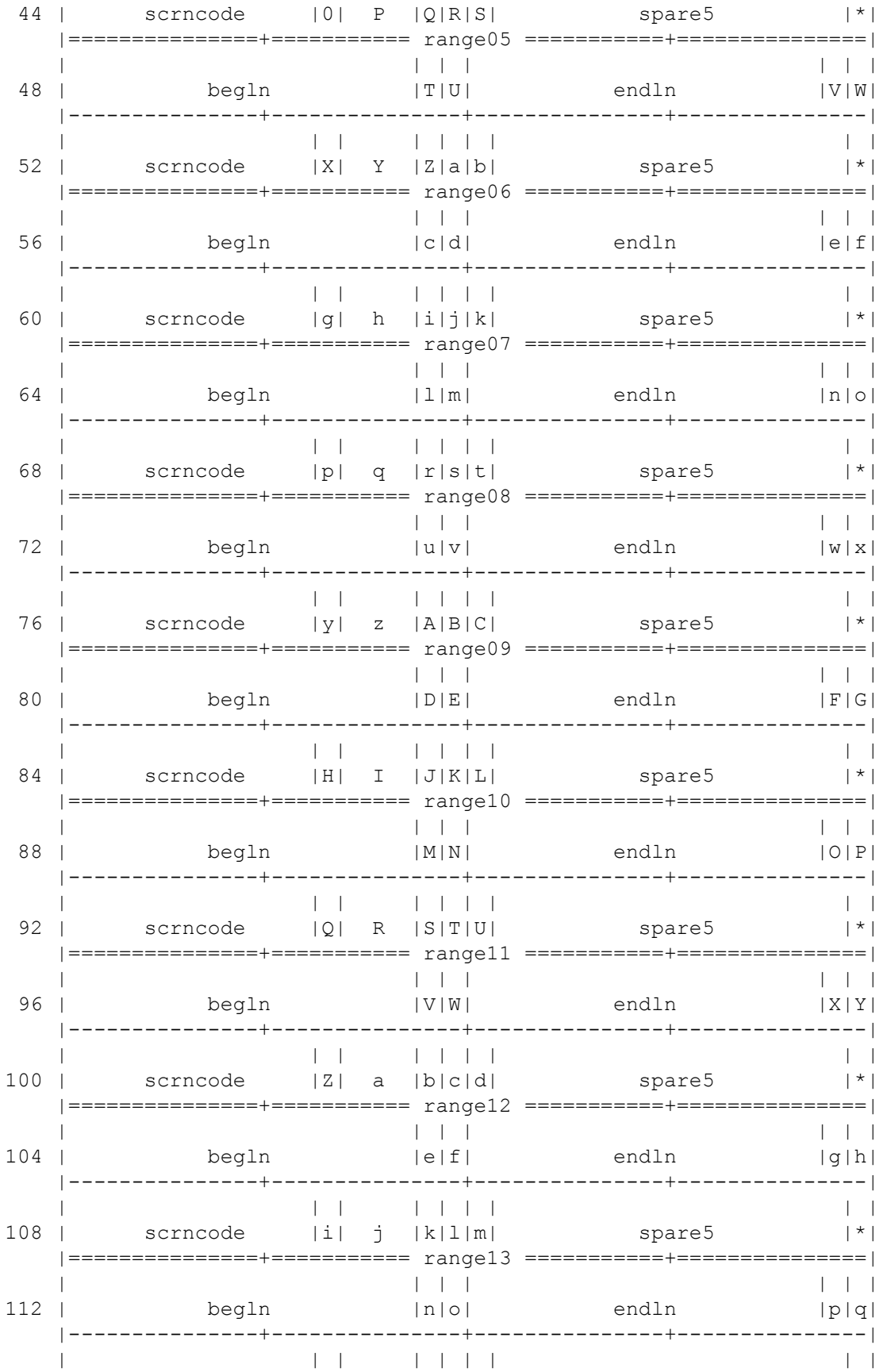


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```
116 |      scrncode     |r|  s  |t|u|v|           spare5          |*|
    |===============+=========== range14 ===========+==============|
    |                            | | |                           | | |
120 |           begln            |w|x|           endln           |y|z|
    |---------------+---------------+---------------+--------------|
    |                    | |     | | | |                           | |
124 |      scrncode     |A|  B  |C|D|E|           spare5          |*|
    |===============+===============+===============+==============|
       ( 128 bytes )
domain alFCSCRRNG   struct  (4 sub-attributes)
         tupnum      .7.fake      (ushort: 7)
         lnoc        .8.fake      (ushort: 14)
         entries     .9.fake      (ushort: 10)
         rangexx     .10.fake     (array [ 15 ] of .2fake )
             begln       .0.fake      (ushort: 14)
 (a)         spare1      .0fake       (enum)
 (b)         spare2      .0fake       (enum)
             endln       .1.fake      (ushort: 14)
 (c)         to_pos      .0fake       (enum)
 (d)         coin_lin    .0fake       (enum)
             scrncode    .2.fake      (ushort: 10)
 (e)         tbnf        .0fake       (enum)
 (f)         origtyp     .1fake       (enum)
 (g)         sab         .0fake       (enum)
 (h)         spare3      .0fake       (enum)
 (i)         spare4      .0fake       (enum)
             spare5      .3.fake      (ushort: 14)
         Structure Layout      alFCSCRRNG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+--------------|
    |             |                 |                           |   |
  0 |    tupnum   |*****************|            lnoc           |***|
    |---------------+---------------+---------------+--------------|
    |                    |                                         |
  4 |      entries       |*****************************************|
    |===============+=========  rangexx[0] =========+==============|
    |                            | | |                           | | |
  8 |           begln            |a|b|           endln           |c|d|
    |---------------+---------------+---------------+--------------|
    |                    | |     | | | |                           | |
 12 |      scrncode     |e|  f  |g|h|i|           spare5          |*|
    |===============+=========  rangexx[1] =========+==============|
    |                            | | |                           | | |
 16 |           begln            |a|b|           endln           |c|d|
    |---------------+---------------+---------------+--------------|
    |                    | |     | | | |                           | |
 20 |      scrncode     |e|  f  |g|h|i|           spare5          |*|
    |===============+=========  rangexx[2] =========+==============|
    |                            | | |                           | | |
 24 |           begln            |a|b|           endln           |c|d|
    |---------------+---------------+---------------+--------------|
    |                    | |     | | | |                           | |
 28 |      scrncode     |e|  f  |g|h|i|           spare5          |*|
```

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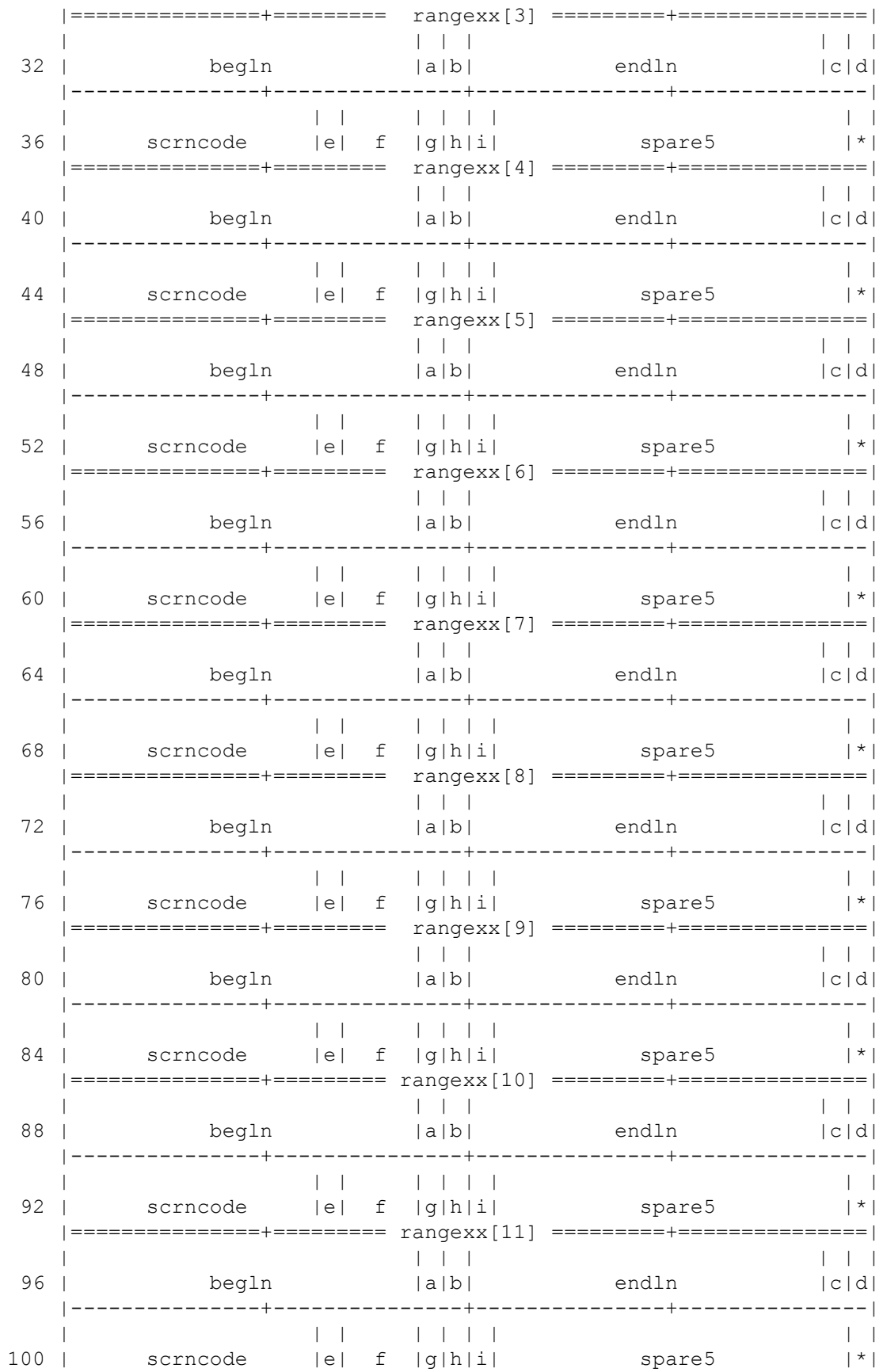


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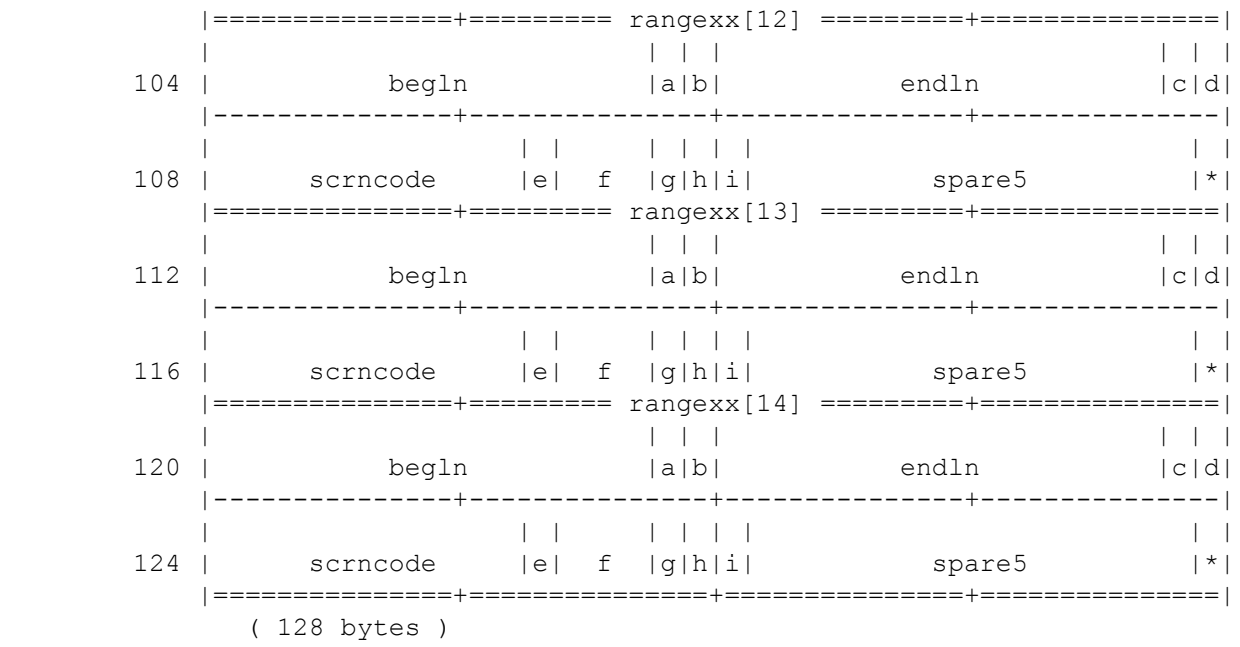


## 4. Population Rules for RLfcscrrng

**Relation Description** FC Screened Range

Holds the screen code, coin flag bit and routing flag bits associated with a range of directory numbers: indexed by large noc (NPA-NXX translation).

**Attribute: tupnum**

**Fullname:** tuple number

**Attribute Description** A number indicating which tuple of ranges for an lnoc this one is.

**Attribute: lnoc**

**Fullname:** Large noc

**Attribute Description** Large noc. Each lnoc has an entry in RLfcnpamap.

**Attribute: entries**

**Fullname:** entries

**Attribute Description** The number of entries in the arrays of ranges. This counts all of the entries filled in all of the tuples with the same lnoc as part of the key.

**Attribute: range[*]**

**Fullname:** range

**Attribute Description** Each attribute contains the beginning and ending line numbers (XXXX) plus the screening information and coin information for that group of lines. Since these attributes represent ranges of screened and/or coin lines, not all will be used in some tuples.

**Attribute: range[*].begln**

**Fullname:** beginline

**Attribute Description** the first line number (XXXX, 0000-9999) of the range of screened lines.

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**Attribute: range[*].spare1**
**Fullname:** spare bit 1

**Attribute Description** This attribute is for fast/special features.

**Attribute: range[*].spare2**
**Fullname:** spare bit 2

**Attribute Description** This attribute is for fast/special features.

**Attribute: range[*].endln**
**Fullname:** endline

**Attribute Description** the last line number (XXXX, 0000-9999) of the range of screened lines.

**Attribute: range[*].to_pos**
**Fullname:** to position

**Attribute Description** If all 0+ calls originating from a dn in this range are to be routed to a position, this attribute is set to DBYES; otherwise DBNO. This is a local administration option, unrelated to flags set in RLfcscrcde.

**Attribute: range[*].coin_lines**
**Fullname:** coin lines

**Attribute Description** This flag indicates that this range belongs to coin lines ONLY (which may or may not be screened). When this bit is set, this range MUST only contain coin lines and may not be combined with other traffic (Noncoin, Hotel-Motel, etc). If a coin line range, this attribute is set to DBYES; otherwise DBNO.

**Attribute: range[*].scrncode**
**Fullname:** screencode

**Attribute Description** Any value from 0-999, zero is reserved to mean not screened; a range populated in this relation with a zero screen code should not have scr_cc or scr_pd set to DBNO. Each scrncode, except zero, must also have an entry in RLfcscrcde. Screen code 999 is reserved for testing.

**Attribute: range[*].tbnf**
**Fullname:** true billing number flag

**Attribute Description** If there is a true billing number associated with this range, this attribute is set to DBYES; otherwise DBNO. Whenever this flag is set to DBYES, there must be an entry in RLfctbntbl for the begln of the range.

**Attribute: range[*].origtyp**
**Fullname:** originating station type

**Attribute Description** This is the type of originating station, chosen from the enum values in DMsvc.

**Attribute: range[*].sab**
**Fullname:** subaccount billing

**Attribute Description** This attribute is set to DBNO if subaccount billing is denied for this range of back numbers; otherwise DBYES.

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**Attribute: range[*].spare3**

**Fullname:** spare bit 3

**Attribute Description** This attribute is for fast/special features.

**Attribute: range[*].spare4**

**Fullname:** spare bit 4

**Attribute Description** Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

**Attribute: range[*].spare5**

**Fullname:** spare field 5

**Attribute Description** Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

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# FCTBNTBL

## 1. Description

This relation holds the true billing number associated with a dn; accessed by large noc (NPA-NXX translation) + line number (XXXX).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 20480 |
| expected number of tuples | 92 |
| density | 73 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
FCTBNTBL    relid = 348   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL

     lnocdn      DMLNOCDN     (struct)     <--- key
         lnoc        DMLNOC       (ushort: 14)
         digits      DMLINENO     (ushort: 14)
     tbn         DMDN         (struct)     <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
            User Tuple Layout      FCTBNTBL
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+===========  lnocdn ===========+===============|
    |                            |   |                            |   |
  0 |             lnoc           |***|           digits           |***|
    |===============+============ tbn ============+===============|
    |       |       |                                             |
  4 | digcnt|*******|                       dn                    |
    | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
    |                                                             |
  8 |                               dn                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
    |                                                             |
 12 |                               dn                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
    |                                                             |
 16 |                               dn                            |
    |===============+===============+===============+===============|
       ( 20 bytes )
     lnocdn      DMLNOCDN     (struct)     <--- key
         lnoc        DMLNOC       (ushort: 14)
         digits      DMLINENO     (ushort: 14)
     tbn         DMCDN        (struct)     <--- compacted
         dig8        DMUNS4       (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
         dig9        DMUNS4       (ushort: 4)
         dig1        DMUNS4       (ushort: 4)
```

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```
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
         Compacted Tuple Layout   FCTBNTBL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+===========  lnocdn ===========+===============|
    |                            |   |                            |   |
  0 |             lnoc           |***|           digits           |***|
    |===============+============= tbn =============+===============|
    |       |       |       |       |       |       |       |       |
  4 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
  8 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
    |===============+===============+===============+===============|
    |                                                               |
 12 |***************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |***************************************************************|
    |---------------+---------------+---------------+---------------|
      ( 20 bytes )
    lnocdn      DMLNOCDN     (struct)     <--- key
        lnoc        DMLNOC       (ushort: 14)
        digits      DMLINENO     (ushort: 14)
    tbn         DMCDN        (struct)     <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
          Stored Tuple Layout     FCTBNTBL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
```

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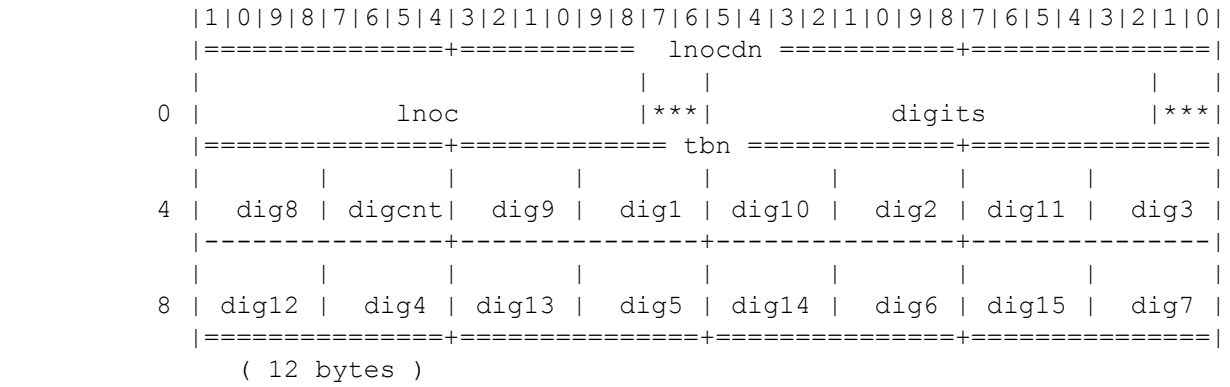


## 4. Population Rules for RLfctbntbl

**Relation Description** true billing number table
Holds the true billing number associated with a dn; accessed by large noc (NPA-NXX translation) + line number (XXXX).

**Attribute: lnocdn**

**Fullname:** large noc dn

**Attribute Description** Large noc (0-12799) + line number (XXXX = 0000-9999). If the TBN is for a range, the lnocdn is the lnoc + the begln (from RLfcscrrng) of the range.

**Attribute: lnocdn.lnoc**

**Fullname:** large noc

**Attribute Description** large noc

**Attribute: lnocdn.digits**

**Fullname:** line number

**Attribute Description** Line number. The begln (from RLfcscrrng) of the range or lnnum for RLfcscrlne.

**Attribute: tbn**

**Fullname:** true billing number

**Attribute Description** A 7-digit (NXX-XXXX) or 10-digit (NPA-NXX-XXXX) true billing DN. The NPA and the NXX is of the format [2-9][0-9][0-9], where [n-m] defines the range of digits which are allowed in that position. This matches the current format for domestic USA NPA and NXX. XXXX is any number between 0000 and 9999.

**Defines:** "db/DMnpa.h",
"db/DMnxx.h",
"db/DMlocdig.h"

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# FCTRNK_R

## 1. Description

This relation contains the feature data for trunks. This is a root storage relation for RLfc_trunk.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 24192 |
| expected number of tuples | 212 |
| density | 72 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTORAGE |
| ks key store | AUTO |

## 3. Field Layout

```
FCTRNK_R    relid = 2127  DBSTORAGE  DBACC_CIND  DBPRAM    FP      NULL


    port        DMGPORT      (struct)  <--- key, not stored, compacted
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    lport       DMLPORT      (ushort: 16)
    ccstrkidx   DMUSHORT     (ushort)
    ltm_idxo    DMLTM_IDX    (ulong: 16)
    cic         DMCKT_CODE   (ushort: 14)
    grpkey      DMGK14       (ulong: 14)
    cmnkey      DMGK14       (ulong: 14)
    member      DMMEM        (ushort: 12)
    cal_state   DMCALTRUNK   (enum)
           User Tuple Layout      FCTRNK_R
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+============  port ============+===============|
   |                                |                |               |
 0 |              member            |****************|     module    |
   |================+===============+================+===============|
   |                                |                                |
 4 |              lport             |           ccstrkidx            |
   |----------------+---------------+----------------+---------------|
   |                                |                             |  |
 8 |             ltm_idxo           |             cic             |***|
   |----------------+---------------+----------------+---------------|
   |                            |                              |       |
12 |            grpkey          |            cmnkey            |*******|
   |----------------+---------------+----------------+---------------|
   |                        |       |                |               |
16 |          member        |*******|   cal_state    |***************|
   |----------------+---------------+----------------+---------------|
      ( 20 bytes )


    port        DMPORT       (ushort)  <--- key, not stored, compacted
```

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```
    lport       DMLPORT      (ushort: 16)
    ccstrkidx   DMUSHORT     (ushort)
    ltm_idxo    DMLTM_IDX    (ulong: 16)
    cic         DMCKT_CODE   (ushort: 14)
    grpkey      DMGK14       (ulong: 14)
    cmnkey      DMGK14       (ulong: 14)
    member      DMMEM        (ushort: 12)
    cal_state   DMCALTRUNK   (enum)
         Compacted Tuple Layout   FCTRNK_R
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |              port             |*******************************|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |             lport             |            ccstrkidx          |
   |---------------+---------------+---------------+---------------|
   |                               |                           |   |
 8 |            ltm_idxo           |             cic           |***|
   |---------------+---------------+---------------+---------------|
   |                           |                           |       |
12 |           grpkey          |           cmnkey          |*******|
   |---------------+---------------+---------------+---------------|
   |                       |       |                   |           |
16 |         member        |*******|   cal_state       |***********|
   |---------------+---------------+---------------+---------------|
      ( 20 bytes )
```

```
    lport       DMLPORT      (ushort: 16)
    ccstrkidx   DMUSHORT     (ushort)
    ltm_idxo    DMLTM_IDX    (ulong: 16)
    cic         DMCKT_CODE   (ushort: 14)
    grpkey      DMGK14       (ulong: 14)
    cmnkey      DMGK14       (ulong: 14)
    member      DMMEM        (ushort: 12)
    cal_state   DMCALTRUNK   (enum)
          Stored Tuple Layout     FCTRNK_R
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             lport             |            ccstrkidx          |
   |---------------+---------------+---------------+---------------|
   |                               |                           |   |
 4 |            ltm_idxo           |             cic           |***|
   |---------------+---------------+---------------+---------------|
   |                           |                           |       |
 8 |           grpkey          |           cmnkey          |*******|
   |---------------+---------------+---------------+---------------|
   |                       |       |                   |           |
12 |         member        |*******|   cal_state       |***********|
   |---------------+---------------+---------------+---------------|
```

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( 16 bytes )

## 4. Population rules for RLfctrnk_r

**Relation Description**

There are no population rules for this relation.

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# FEATBN

## 1. Description

This relation provides the relationship between ISDN configuration group and feature to button function.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8000 |
| expected number of tuples | 93 |
| density | 16 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| trigger function | DBtrfeatbn |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
FEATBN      relid = 859   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP

     fid         DMMCC_FID    (ushort)     <--- key
     config      DMCONFIG     (ulong: 12)     <--- key
 (a) cpe_comp    DMCPECOMP    (uchar: 3)
     action      DMMCACTN     (enum: 9)     <--- key
     button      DMBUTTON     (uchar: 8)
         User, Compacted and Stored Tuple Layout FEATBN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                         |     | |
  0 |               fid               |          config         |  a  |*|
    |---------------+---------------+---------------+---------------|
    |                   |             |                 |               |
  4 |      action       |*************|     button      |***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLfeatbn

**Relation Description** ISDN feature to button.
Provides relationship between ISDN configuration group and feature to button function

For every tuple populated in rlFEATBN, there must a corresponding tuple in rlBNFEAT. In other words, if there is a rlFEATBN tuple for a particular CONFIG and BUTTON, there must be a rlBNFEAT tuple mapping the CONFIG and BUTTON to the same ACTION and MFT. I say MFT because the FID in rlFEATBN might be wildcard while the one in rlBNFEAT might not be.

The CONFIG, FID, and ACTION must be unique. The CONFIG, CPE_COMP, and BUTTON must also be unique. In other words, for a given configuration, a FID/ACTION pair maps to exactly one CPE_COMP/BUTTON pair and vice versa.

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NUMBER OF TUPLES:
One tuple for each ISDN configuration, feature id and feature action combination that requires inverse mapping to RLbnfeat. The following subset of modular features and actions requires tuples here and in RLbnfeat.

| Modular Feat | Action | Description |
|---|---|---|
| AC: | ACN_ACCFB | LASS Automatic Callback cancel |
| | ACN_ACUFB | LASS Automatic Callback use |
| ACB: | ACN_ACBFBP | ISDN Act/Deact/Answer ACBC |
| ACTR: | ACN_IDNACT | ISDN Atnd change ACVT restriction for a DN |
| | ACN_ATFACT | ISDN Atnd activate ACVT feature for a DN |
| | ACN_ATFDCT | ISDN Atnd deactivate ACVT feature for a DN |
| | ACN_IGACT | ISDN Atnd change ACVT retriction for a group of DNs |
| | ACN_ATGACT | ISDN Atnd activate ACVT feature for a group of DNs |
| | ACN_ATGDCT | ISDN Atnd deactivate ACVT feature for a group of DNs |
| AR: | ACN_ARCFB | LASS Automatic Recall cancel |
| | ACN_ARUFB | LASS Automatic Recall use |
| ARS: | ACN_ARS1USE | use automatic route selection plan 1 |
| | ACN_ARS2USE | use automatic route selection plan 2 |
| | ACN_ARSUSE | use automatic route selection plan 2 |
| ASPO: | ACN_ASPNORM | ASP Originating / ODP |
| | ACN_IASNORM | ASP Originating / IDP |
| ATH: | ACN_ATHUSE | Authorization Codes use code |
| CFW: | ACN_BNTOG | ISDN Activate/Deactivate CF |
| | ACN_INIGHT | ISDN Atnd night service |
| | ACN_TOGDCT | ISDN Wild card action, deact all CF feats |
| | ACN_CFBN | Standard ISDN CF activate/ deactivate |
| COT | ACN_COTFBP | COT use |
| CPI: | ACN_CPNBNFBT | Activate/Deactivate CPN/BN feature |

The following data dependency rule is written for the MFCPI modular feature.

```
   RULE about RLfeatbn.action:
for every tuple in RLfeatbn
   begin
   if (RLfeatbn.action = ACN_CPNBNFBT) then
      begin
         type = (RLfeatbn.fid >> 10);
         if (type != MFCPI)
            begin
               error: 'Invalid modular feature type for action
                  ACN_CPNBNFBT';
            end
         must find exactly 1 tuple in RLcpnbn_cf
            where ((RLcpnbn_cf.fid equals RLfeatbn.fid) and
                   (RLcpnbn_cf.act_type equals ACTCD) and
                   (RLcpnbn_cf.deact_type equals DCTCD));
      end
   end
```

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| | | |
|---|---|---|
| CWT: | ACN_CWDLU | ISDN Call Waiting |
| DISP: | ACN_INSUSE | ISDN Inspect use |
| | ACN_TODUSE | ISDN Time of day use |
| | ADN_DNPUSE | Per call DN privacy use and cancel |
| | ACN_CNPUSE | Per call Calling Name privacy use |
| | ACN_NNNRV | Calling Name private use |
| | ACN_NNPUB | Calling Name public use |
| EDS: | ACN_DQDUSE | ISDN Directory query display use |
| ICM: | ACN_I1ICOM | ISDN Intercom group 1 action |
| | ACN_I2ICOM | ISDN Intercom group 2 action |
| | ACN_I3ICOM | ISDN Intercom group 3 action |
| | ACN_I4ICOM | ISDN Intercom group 4 action |
| LID: | ACN_CNDFBP | ISDN Activate/Deactivate ICLID CND |
| MDS: | ACN_CLWCUSE | ISDN Cancel leave word calling |
| | ACN_DCTMWI | ISDN Deact message waiting indicator |
| | ACN_LWCUSE | ISDN Leave word calling use |
| | ACN_MRDUSE | ISDN Start/end message retrieval display |
| | ACN_PODUSE | ISDN Print on demand use |
| MLHG: | ACN_BYGP | ISDN Group make busy |
| | ACN_BYMB | ISDN Member make busy |
| | ACN_BYPO | ISDN Position make busy |
| | ACN_STPH | ISDN Stop hunt |
| | ACN_BYRB | ISDN Random make busy |
| MWY: | ACN_ICONF | ISDN Atnd conference (6-way) |
| | ACN_IME | ISDN Atnd manual exclusion |
| | ACN_ISTART | ISDN Atnd start |
| | ACN_MWITD | ISDN Terminal dial code |
| PFA: | ACN_ICTT | ISDN Atnd call thru test |
| | ACN_ISCCOF | ISDN Atnd SCCOF |
| PUO: | ACN_IBSYVFY | ISDN Atnd busy verify |
| | ACN_IEMEROVR | ISDN Atnd emergency override |
| | ACN_DPN | Use directed pickup without barge-in |
| | ACN_DPU | Use directed pickup with barge-in |
| | ACN_BPARK | Basic Call Park |
| | ACN_DPARK | Directed Call Park |
| | ACN_RTRV | Call Park Retrieve |
| | ACN_ANSBACK | Call Park Answer Back |
| QU: | ACN_QCW1L | ISDN First threshold CW (mbks) |
| | ACN_QCW2L | ISDN Second threshold CW (mbks) |
| | CAN_QCW3L | ISDN Third threshold CW (mbks) |
| | ACN_QCWT | ISDN Call waiting |
| | ACN_QCWW | ISDN Call waiting warning |
| | ACN_QCANC | ISDN Ring Back Queuing Cancel |
| | ACN_QCBUSY | ISAT Queue Busy |
| | ACN_QCWARN | ISAT Queue Warning Threshold |
| | ACN_QCPCWT | ISAT Precedence Call Waiting |
| SC: | ACN_AD1CH | Change 1-digit abbrev dial list |
| | ACN_AD2CH | Change 2-digit abbrev dial list |
| SCA: | ACN_SCAFB | 5E6 LASS Selective Call Acceptance |
| SCF: | ACN_SCFFB | 5E6 LASS Selective Call Forwarding |
| SCR: | ACN_SCRFB | 5E6 LASS Selective Call Rejection |
| SDA: | ACN_SDAFB | 5E6 LASS Selective Distinctive Alerting |
| NULL: | ACN_ATACTMWI | ISDN Atnd act message waiting indicator |
| | ACN_ATDCTMWI | ISDN Atnd deact message waiting indicator |

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```
ACN_AUCUSE     ISDN Auto-call set-up use
ACN_AWTUSE     ISDN Aggregate work time use
ACN_ERCO       ISDN Executive Ringer Cutoff
ACN_IHOLD      ISDN Atnd hold
ACN_IJOIN      ISDN Atnd join
ACN_IRLL       ISDN Atnd release loop
ACN_ISPLIT     ISDN Atnd split
ACN_METOG      ISDN Toggle manual exclusion status
ACN_NRMLUSE    ISDN Set display mode to normal
ACN_QCUSE      ISDN Calls on queue use
ACN_TCUSE      ISDN Total calls handled use
ACN_TRKUSE     ISDN Trunk group identification use
ACN_ICR1       Intercom Calling Restriction use
ACN_ICR2       Intercom Calling Restriction use
ACN_ICR3       Intercom Calling Restriction use
ACN_ICR4       Intercom Calling Restriction use
ACN_ICR5       Intercom Calling Restriction use
ACN_ICR6       Intercom Calling Restriction use
ACN_LQ1DISP    MLHG 1 Queue status display
ACN_LQ2DISP      MLHG 2 Queue status display
ACN_LQ3DISP      MLHG 3 Queue status display
ACN_LQ4DISP      MLHG 4 Queue status display
ACN_LQ5DISP    MLHG 5 Queue status display
ACN_LQ6DISP    MLHG 6 Queue status display
ACN_LQ7DISP    MLHG 7 Queue status display
ACN_LQ8DISP    MLHG 8 Queue status display
ACN_SDNUSE     Invoke SDN
ACN_SEL1XFER   Selective Transfer DN1
ACN_SEL2XFER   Selective Transfer DN2
ACN_SEL3XFER   Selective Transfer DN3
ACN_SEL4XFER   Selective Transfer DN4
ACN_SEL5XFER   Selective Transfer DN5
ACN_SEL6XFER   Selective Transfer DN6
ACN_CONFUSE    ISDN Conference use (NI 1)
ACN_DROPUSE    ISDN Drop use (NI 1)
ACN_XFERUSE    ISDN Transfer use (NI 1)
ACN_AATOG      ACD/BRCS Auto Answer
ACN_BITOG      ACD/BRCS Barge-In
ACN_CLTOG      ACD/BRCS Closed
ACN_CWLMP      ACD/BRCS Calls Waiting Lamp
ACN_ECUSE      ACD/BRCS Event Code
ACN_EMUSE      ACD/BRCS Emergency
ACN_LGNTOG     ACD/BRCS Login/Logout
ACN_MBTOG      ACD/BRCS Make Busy
ACN_SAUSE      ACD/BRCS Service Assist
ACN_SOTOG      ACD/BRCS Service Observe
ACN_FLASH      WIRELESS Centrex FLASH
```

**Attribute: config**

**Fullname:** configuration id.

**Attribute Description** This number should be assigned sequentially starting with 1. Must be created before being assigned to RLis_term.config. A single config may be assigned to many ISDN BRCS terminals. This key is created sequentially with hole-reuse implemented.

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**Attribute: fid**

**Fullname:** feature id.

**Attribute Description** (KEY) Feature id associated with particular button number. Must have an entry in RLfacname and RLfid2name.

The wildcard fid must be used for all modular feature types regardless of the fid that is entered for RLbnfeat with four exceptions:

(1) For the action ACN_BNTOG for Call Forwarding (MFCFW), the RLfeatbn.fid must not be wildcard fid. The unique fid that is entered for RLbnfeat.fid is used in RLfeatbn.fid.

(2) For the action ACN_MWITD for Multiway (MFMWY), the RLfeatbn.fid must not be wildcard fid. The unique fid that is entered for RLbnfeat.fid is used in RLfeatbn.fid.

(3) For the action ACN_CNDFBP for ICLID Calling Number Delivery, the fid (either unique or wildcard) that is entered for RLbnfeat.fid is used in RLfeatbn.fid.

(4) For the actions ACN_DCTMWI, ACN_MRDUSE, and ACN_PODUSE for MSS, the fid (either unique or wildcard) that is entered for RLbnfeat.fid is used in RLfeatbn.fid.

The NULL modular feature does not have a Wildcard fid. More restriction to check the INVOKE type is needed. Only when the INVOKE type is CODE ( Dial Call Waiting ), the action ACN_CWDLU ( ISDN Call Waiting ) associated with the modular feature CWT can be assigned to the particular button number. That is, when RLcw_cf.typinv(bnfeat.fid) == CWIN_IDIAL, then RLbnfeat.fid must be of MF type CWT such that for that associated action : RLbnfeat.action = ACN_CWDLU.

**Attribute: action**

**Fullname:** action.

**Attribute Description** Subset of action enumerations in RLbnfeat. Not all actions in bnfeat are allowed here.

**Attribute: cpe_comp**

**Fullname:** Customer Premises Equipment component.

**Attribute Description** Customer Premises Equipment (CPE). On which this feature and action are assigned to button. CPE component is a unit of buttons on the terminal.

**Attribute: button**

**Fullname:** button.

**Attribute Description** ISDN station set button number to which the feature is assigned on this CPE component.

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# FENT_G

## 1. Description

This relation contains a list of BRCS constructed features assigned to a ISDN BRCS DN/Member or BRCS feature group (BFG).

This is a child storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 13824 |
| expected tuples | 68 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTORAGE |
| ks key store | AUTO |
| foldtype | DBGC31 |
| gkidxrel GK-index relation | rlFENT_I |

## 3. Field Layout

```
FENT_G      relid = 1636  DBSTORAGE  DBACC_GK    DBPRAM    LPFPFG  RCMAP

     gkFENT_G    DMGK14       (ulong: 14)     <--- key, not stored
     ftent1      DMFACFTENT   (struct)
         fid         DMMCC_FID    (ushort)
 (a)     mastsw      DMBOOL       (enum: 1)
 (b)     active      DMBOOL       (enum: 1)
 (c)     rasalwd     DMBOOL       (enum: 1)
 (d)     intratg     DMBOOL       (enum: 1)
 (e)     intraoff    DMBOOL       (enum: 1)
 (f)     interoff    DMBOOL       (enum: 1)
 (g)     pf          DMBOOL       (enum: 1)
 (h)     attndnt     DMBOOL       (enum: 1)
 (i)     ath         DMBOOL       (enum: 1)
         selcrit     DMSELCRIT    (enum: 6)
     ftent2      DMFACFTENT   (struct)
         fid         DMMCC_FID    (ushort)
 (j)     mastsw      DMBOOL       (enum: 1)
 (k)     active      DMBOOL       (enum: 1)
 (l)     rasalwd     DMBOOL       (enum: 1)
 (m)     intratg     DMBOOL       (enum: 1)
 (n)     intraoff    DMBOOL       (enum: 1)
 (o)     interoff    DMBOOL       (enum: 1)
 (p)     pf          DMBOOL       (enum: 1)
 (q)     attndnt     DMBOOL       (enum: 1)
 (r)     ath         DMBOOL       (enum: 1)
         selcrit     DMSELCRIT    (enum: 6)
     ftent3      DMFACFTENT   (struct)
         fid         DMMCC_FID    (ushort)
 (s)     mastsw      DMBOOL       (enum: 1)
 (t)     active      DMBOOL       (enum: 1)
 (u)     rasalwd     DMBOOL       (enum: 1)
```

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```
(v)     intratg     DMBOOL       (enum: 1)
(w)     intraoff    DMBOOL       (enum: 1)
(x)     interoff    DMBOOL       (enum: 1)
(y)     pf          DMBOOL       (enum: 1)
(z)     attndnt     DMBOOL       (enum: 1)
(A)     ath         DMBOOL       (enum: 1)
        selcrit     DMSELCRIT    (enum: 6)
    ftent4      DMFACFTENT   (struct)
        fid         DMMCC_FID    (ushort)
(B)     mastsw      DMBOOL       (enum: 1)
(C)     active      DMBOOL       (enum: 1)
(D)     rasalwd     DMBOOL       (enum: 1)
(E)     intratg     DMBOOL       (enum: 1)
(F)     intraoff    DMBOOL       (enum: 1)
(G)     interoff    DMBOOL       (enum: 1)
(H)     pf          DMBOOL       (enum: 1)
(I)     attndnt     DMBOOL       (enum: 1)
(J)     ath         DMBOOL       (enum: 1)
        selcrit     DMSELCRIT    (enum: 6)
    ftent5      DMFACFTENT   (struct)
        fid         DMMCC_FID    (ushort)
(K)     mastsw      DMBOOL       (enum: 1)
(L)     active      DMBOOL       (enum: 1)
(M)     rasalwd     DMBOOL       (enum: 1)
(N)     intratg     DMBOOL       (enum: 1)
(O)     intraoff    DMBOOL       (enum: 1)
(P)     interoff    DMBOOL       (enum: 1)
(Q)     pf          DMBOOL       (enum: 1)
(R)     attndnt     DMBOOL       (enum: 1)
(S)     ath         DMBOOL       (enum: 1)
        selcrit     DMSELCRIT    (enum: 6)
    ftent6      DMFACFTENT   (struct)
        fid         DMMCC_FID    (ushort)
(T)     mastsw      DMBOOL       (enum: 1)
(U)     active      DMBOOL       (enum: 1)
(V)     rasalwd     DMBOOL       (enum: 1)
(W)     intratg     DMBOOL       (enum: 1)
(X)     intraoff    DMBOOL       (enum: 1)
(Y)     interoff    DMBOOL       (enum: 1)
(Z)     pf          DMBOOL       (enum: 1)
(a)     attndnt     DMBOOL       (enum: 1)
(b)     ath         DMBOOL       (enum: 1)
        selcrit     DMSELCRIT    (enum: 6)
        User and Compacted Tuple Layout     FENT_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 0 |*********************************|          gkFENT_G             |
   |===============+===========  ftent1 ==========+===============|
   |                                 | | | | | | | | | |           | |
 4 |              fid                |a|b|c|d|e|f|g|h|i|  selcrit  |*|
   |===============+===========  ftent2 ==========+===============|
   |                                 | | | | | | | | | |           | |
```

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```
 8 |              fid              |j|k|l|m|n|o|p|q|r|  selcrit  |*|
   |===============+===========  ftent3 ==========+===============|
   |                               | | | | | | | | | |           | |
12 |              fid              |s|t|u|v|w|x|y|z|A|  selcrit  |*|
   |===============+===========  ftent4 ==========+===============|
   |                               | | | | | | | | | |           | |
16 |              fid              |B|C|D|E|F|G|H|I|J|  selcrit  |*|
   |===============+===========  ftent5 ==========+===============|
   |                               | | | | | | | | | |           | |
20 |              fid              |K|L|M|N|O|P|Q|R|S|  selcrit  |*|
   |===============+===========  ftent6 ==========+===============|
   |                               | | | | | | | | | |           | |
24 |              fid              |T|U|V|W|X|Y|Z|a|b|  selcrit  |*|
   |===============+===============+===============+===============|
     ( 28 bytes )
    ftent1      DMFACFTENT   (struct)
        fid         DMMCC_FID    (ushort)
(a)     mastsw      DMBOOL       (enum: 1)
(b)     active      DMBOOL       (enum: 1)
(c)     rasalwd     DMBOOL       (enum: 1)
(d)     intratg     DMBOOL       (enum: 1)
(e)     intraoff    DMBOOL       (enum: 1)
(f)     interoff    DMBOOL       (enum: 1)
(g)     pf          DMBOOL       (enum: 1)
(h)     attndnt     DMBOOL       (enum: 1)
(i)     ath         DMBOOL       (enum: 1)
        selcrit     DMSELCRIT    (enum: 6)
    ftent2      DMFACFTENT   (struct)
        fid         DMMCC_FID    (ushort)
(j)     mastsw      DMBOOL       (enum: 1)
(k)     active      DMBOOL       (enum: 1)
(l)     rasalwd     DMBOOL       (enum: 1)
(m)     intratg     DMBOOL       (enum: 1)
(n)     intraoff    DMBOOL       (enum: 1)
(o)     interoff    DMBOOL       (enum: 1)
(p)     pf          DMBOOL       (enum: 1)
(q)     attndnt     DMBOOL       (enum: 1)
(r)     ath         DMBOOL       (enum: 1)
        selcrit     DMSELCRIT    (enum: 6)
    ftent3      DMFACFTENT   (struct)
        fid         DMMCC_FID    (ushort)
(s)     mastsw      DMBOOL       (enum: 1)
(t)     active      DMBOOL       (enum: 1)
(u)     rasalwd     DMBOOL       (enum: 1)
(v)     intratg     DMBOOL       (enum: 1)
(w)     intraoff    DMBOOL       (enum: 1)
(x)     interoff    DMBOOL       (enum: 1)
(y)     pf          DMBOOL       (enum: 1)
(z)     attndnt     DMBOOL       (enum: 1)
(A)     ath         DMBOOL       (enum: 1)
        selcrit     DMSELCRIT    (enum: 6)
    ftent4      DMFACFTENT   (struct)
        fid         DMMCC_FID    (ushort)
(B)     mastsw      DMBOOL       (enum: 1)
```

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```
(C)     active      DMBOOL       (enum: 1)
(D)     rasalwd     DMBOOL       (enum: 1)
(E)     intratg     DMBOOL       (enum: 1)
(F)     intraoff    DMBOOL       (enum: 1)
(G)     interoff    DMBOOL       (enum: 1)
(H)     pf          DMBOOL       (enum: 1)
(I)     attndnt     DMBOOL       (enum: 1)
(J)     ath         DMBOOL       (enum: 1)
        selcrit     DMSELCRIT    (enum: 6)
    ftent5      DMFACFTENT   (struct)
        fid         DMMCC_FID    (ushort)
(K)     mastsw      DMBOOL       (enum: 1)
(L)     active      DMBOOL       (enum: 1)
(M)     rasalwd     DMBOOL       (enum: 1)
(N)     intratg     DMBOOL       (enum: 1)
(O)     intraoff    DMBOOL       (enum: 1)
(P)     interoff    DMBOOL       (enum: 1)
(Q)     pf          DMBOOL       (enum: 1)
(R)     attndnt     DMBOOL       (enum: 1)
(S)     ath         DMBOOL       (enum: 1)
        selcrit     DMSELCRIT    (enum: 6)
    ftent6      DMFACFTENT   (struct)
        fid         DMMCC_FID    (ushort)
(T)     mastsw      DMBOOL       (enum: 1)
(U)     active      DMBOOL       (enum: 1)
(V)     rasalwd     DMBOOL       (enum: 1)
(W)     intratg     DMBOOL       (enum: 1)
(X)     intraoff    DMBOOL       (enum: 1)
(Y)     interoff    DMBOOL       (enum: 1)
(Z)     pf          DMBOOL       (enum: 1)
(a)     attndnt     DMBOOL       (enum: 1)
(b)     ath         DMBOOL       (enum: 1)
        selcrit     DMSELCRIT    (enum: 6)
          Stored Tuple Layout   FENT_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                         GK LINK FIELD                         |
   |===============+===========  ftent1 ==========+===============|
   |                               | | | | | | | | |           | |
 4 |               fid               |a|b|c|d|e|f|g|h|i|  selcrit  |*|
   |===============+===========  ftent2 ==========+===============|
   |                               | | | | | | | | |           | |
 8 |               fid               |j|k|l|m|n|o|p|q|r|  selcrit  |*|
   |===============+===========  ftent3 ==========+===============|
   |                               | | | | | | | | |           | |
12 |               fid               |s|t|u|v|w|x|y|z|A|  selcrit  |*|
   |===============+===========  ftent4 ==========+===============|
   |                               | | | | | | | | |           | |
16 |               fid               |B|C|D|E|F|G|H|I|J|  selcrit  |*|
   |===============+===========  ftent5 ==========+===============|
   |                               | | | | | | | | |           | |
20 |               fid               |K|L|M|N|O|P|Q|R|S|  selcrit  |*|
```

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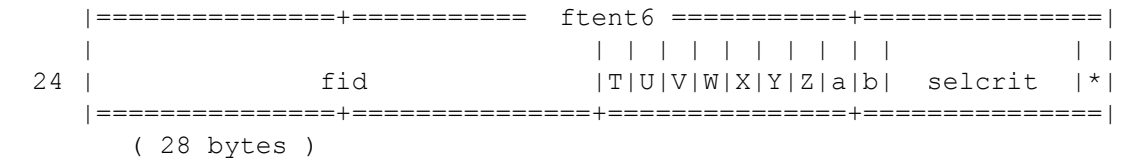


## 4. Population Rules for RLfent_g

There are no population rules for this relation.

# FID2NAME

## 1. Description

This relation maps from an internan ID to an external FAC name.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3072 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 512 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
FID2NAME    relid = 849   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     facid       DMFACID      (ushort)     <--- key
     class       DMFACLASS    (enum: 5)     <--- key
 (a) subclass    DMFACSUBCL   (enum: 4)     <--- key
     name        DMFACNAME    (array [ 8 ] of char )
         User, Compacted and Stored Tuple Layout   FID2NAME
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |         |     |       |       |
  0 |              facid              |  class  |*****|   a   |*******|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                               name                            |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                               name                            |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population rules for RLfid2name

**Relation Description**

Feature identification to name translation
This relation translates an ID (feature ID, BFG ID, etc.) to the 8 character ASCII name as shown on the view screen. It is basically an inverse of the RLfacname relation.
There is a tuple in this relation for every tuple in RLfacname. Each change to RLfacname must result in a corresponding change to RLfid2name, except for use counts in RLfacname. The inverse is also true. Each change to RLfid2name must result in a change to RLfacname.

**Attribute:**

facid

**Fullname:**

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Feature assignment and construction identification

**Attribute Description:**

This is the internal identifier associated with the external name. This is a short with a range from 0 to 65535. For most names, this is treated as a simple number. But if the name represents a BRCS feature (class is FACBRCS and subclass is SCL_FEAT), the number is divided into two fields: a modular feature type (mftype [top 6 bits: bits 15 - 10]), and a unique identifier (bottom 10 bits: bits 9 - 0). The mftype is a enumerated data type with one of the values found in domain DMmftype. For the null feature (a preconstructed feature) both fields are 0, giving a facid of 0. For any other feature, the mftype is nonzero, and so is the unique identifier.

**Attribute:**

class

**Fullname:**

Feature assignment and construction class

**Attribute Description:**

Externally known names are divided into a number of classes. This is an enumerated type identifying the class associated with the external name. This attribute allows each class to have its own unique name space.

**Attribute:**

subclass

**Fullname:**

Feature assignment and construction subclass

**Attribute Description:**

Each class of names is divided into one or more subclasses. The subclasses of a given class all share the same name space, since subclass is not a key to RLfacname.

**Attribute:**

name

**Fullname:**

Name (in ASCII)

**Attribute Description:**

This is the externally known ASCII name. It can be from 1 to 8 characters long. If it is less than 8 characters long, the field is padded with binary zeros ('\0'). Names must be unique within a given class. Names from different classes need not be unique.

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# FIDB_SGN

## 1. Description

Translation table from RDFI FIDB number to RDFI PICB number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |

## 3. Field Layout

```
FIDB_SGN    relid = 434   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL

     fidb        DMPIDB       (ushort)     <--- key
     picb        DMPICB       (ushort)
     fidb_a      DMPIDB       (ushort)
     fidb_b      DMPIDB       (ushort)
         User, Compacted and Stored Tuple Layout   FIDB_SGN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |               fidb            |               picb            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              fidb_a           |              fidb_b           |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLfidb_sgn

**Relation Description** Translation Table from T1FAC/CFAC FIDB number to RDFI/CDFI PICB number
Defines the FIDB_SGN tuple required to represent the Facility Interface Data Bus (FIDB) associated with PCT1FAC and PCCFAC facility circuits. For each populated tuple in RLCKTDATA with 'type' attribute of PCT1FAC or PCCFAC, equip one FIDB_SGN tuple keyed by its FIDB number, which is found in the CKTDATA tuple's 'pidb' attribute.

DFI-1 circuit boards only terminate a single facility, while the newer DFI-2 circuit boards terminate up to two. Regardless of DFI type, facilities are numbered according to their relative position on the board. Facilities terminating on a DFI-1 can only be relative facility 0, while facilities terminating on a DFI-2 may be either relative facility 0 or 1, depending on the physical connection on the T1 side of the DFI-2.

**Attribute: fidb**

**Fullname:** FIDB number associated with this T1FAC/CFAC

**Attribute Description** FIDB number from CKTDATA tuple pidb attribute

**Attribute: picb**

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**Fullname:** PICB number associated with the RDFI/CDFI

**Attribute Description** picb = CI/PICB + 1 for this PCT1FAC or PCCFAC circuit, obtained directly from CKTDATA baseadd{8:15} + 1

**Attribute: fidb_a**

**Fullname:** FIDB number associated with the relative facility 0 of this RDFI/CDFI

**Attribute Description**

```
fidb_a = if   ( this PCT1FAC/PCCFAC is relative facility 0 )
populate this field the same as the 'fidb' attribute
else ( this PCT1FAC/PCCFAC is relative facility 1 )
```

therefore, a tuple must exist in CKTDATA representing relative facility 0, on the same CI/PICB + 1. Populate this field with the pidb attribute of that CKTDATA tuple

**Attribute: fidb_b**

**Fullname:** FIDB number associated with relative facility 1 of this RDFI/CDFI ( IF EQUIPPED ), otherwise 0x7f (if UNEQUIPPED or not a DFI-2)

**Attribute Description**

```
fidb_b = if   ( this PCT1FAC/PCCFAC is relative facility 1 )
                populate this field the same as the 'fidb' attribute
         else ( this PCT1FAC/PCCFAC relative facility 0 )
                see if there is a tuple in CKTDATA representing relative
                facility 1 on the same CI/PICB + 1.
                if  ( relative facility 1 tuple exits )
                      populate this field with the pidb attribute of
                      that CKTDATA tuple
                else
                      populate this field with 0x7f (unequipped FIDB)
```

**Defines:** "db/DMcircuit.h"

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# FIX_DIG

## 1. Description

This relation provides for SCCP information about the fixed digit portion of the GTT address digits.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 2000 |
| expected number of tuples | 40 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCfix_dig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| foldtype | DBGC31 |

## 3. Field Layout

```
FIX_DIG     relid = 2399  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL

     max_ent     DMUNS17      (ulong: 17)
     fds_ind     DMUNS7       (ushort: 7)
     tran_gp     DMUNS6       (ushort: 6)     <--- key
     cur_ent     DMUNS17      (ulong: 17)
     dig1        DMUNS4HEX    (ushort: 4)     <--- key
     dig2        DMUNS4HEX    (ushort: 4)     <--- key
     dig3        DMUNS4HEX    (ushort: 4)     <--- key
     dig4        DMUNS4HEX    (ushort: 4)     <--- key
     dig5        DMUNS4HEX    (ushort: 4)     <--- key
     dig6        DMUNS4HEX    (ushort: 4)     <--- key
         User, Compacted and Stored Tuple Layout    FIX_DIG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |             |           |   |
  0 |             max_ent             |   fds_ind   |  tran_gp  |***|
    |---------------+---------------+---------------+---------------|
    |                                 |       |       |       |     |
  4 |             cur_ent             |  dig1 |  dig2 |  dig3 |*****|
    |---------------+---------------+---------------+---------------|
    |       |       |       |                                       |
  8 |  dig4 |  dig5 |  dig6 |***************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLfix_dig

**Relation Description** Fixed Digit String Definition Relation
This relation specifies information about the fixed digit string portion of the SCCP Global Title Address Digits.

**Attribute: tran_gp**

**Fullname:** SCCP Global Title Translation Group

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**Attribute Description** This attributes specifies a translation group representing a SCCP service on which Global Title Translation needs to be performed.

**Attribute: dig1**

**Fullname:** First Digit in String

**Attribute Description** This attribute specifies the first digit of the fixed digit string.

**Attribute: dig2**

**Fullname:** Second Digit in String

**Attribute Description** This attribute specifies the second digit of the fixed digit string.

**Attribute: dig3**

**Fullname:** Third Digit in String

**Attribute Description** This attribute specifies the third digit of the fixed digit string.

**Attribute: dig4**

**Fullname:** Fourth Digit in String

**Attribute Description** This attribute specifies the fourth digit of the fixed digit string.

**Attribute: dig5**

**Fullname:** Fifth Digit in String

**Attribute Description** This attribute specifies the fifth digit of the fixed digit string.

**Attribute: dig6**

**Fullname:** Sixth Digit in String

**Attribute Description** This attribute specifies the sixth digit of the fixed digit string.

**Attribute: fds_ind**

**Fullname:** Fixed Digit String Index

**Attribute Description** This attribute specifies an index that can be used to represent the fixed digit string.

**Attribute: max_ent**

**Fullname:** Maximum number of Required + Optional Digits

**Attribute Description** This attribute specifies the maximum number of required plus optional digit entries in the RLgtt_0dpc or RLgtt_1dpc relation for this fixed digit string.

**Attribute: cur_ent**

**Fullname:** Current Number of Entries of Required + Optional Digit Strings

**Attribute Description** This attribute specifies the current number of entries in the RLgtt_0dpc or RLgtt_1dpc relation. It must be less then or equal to RLfix_dig.max_ent.

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# FLEX_ANI

## 1. Description

Flexible ANI information digits (II) pairs will be stored in this relation based on class of service.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |
| permutation type | unperm |

## 3. Field Layout

```
FLEX_ANI    relid = 1341  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL

     cos         DMSERVCLASS  (enum)     <--- key
     ani_ii_digs  DMUNS7       (ushort: 7)
         User and Compacted Tuple Layout   FLEX_ANI
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |      cos      | ani_ii_digs |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
     cos         DMSERVCLASS  (enum)     <--- key
     ani_ii_digs  DMUNS7       (ushort: 7)
           Stored Tuple Layout     FLEX_ANI
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |      cos      | ani_ii_digs |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLflex_ani

**Relation Description** Flexible automatic number identification information.

This relation will associate ANI II digit pairs with a class of service.

Used for assigning flexible ANI II pairs to a class of service.

**Attribute: cos**

**Fullname:** class of service

**Attribute Description** Identifies a lines class of service

**Attribute: ani_ii_digs**

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**Fullname:** ANI information (II) digit pairs

**Attribute Description** Two-digit information indicator used for equal access when an outgoing call using EA signaling (EAMF or EA-ISUP7), EAOSS signaling, EOSS signaling, and MEA signaling.

The ANI information indicator is defined and administered by Bellcore.

The 'ani_ii_digs' associated with a call can be obtained from various places in the system. If it is obtained from RLrt_mcrt relation, it is associated with a service such as, private facility access (PFA)/outward wide area telephone service (OUTWATS) or shared directory number (SDN) OUTWATS. If it is obtained from the RLflex_ani relation, it is associated with the class of service (COS) of the originating party. If it is obtained from the RLscridxpa relation, it is associated with a screening index of the originating party (The Flexible ANI Enhancement Secured Feature must be purchased and enabled, and the carrier must be allowed to send ANI II Digits). If it is obtained from the RLrt_routing relation it identifies the carrier through its association with the route index.

The ani_ii_digs attribute associated with the MCRI (RLrt_mcrt) has the highest precedence, followed by RI (RLrt_routing), SCRIDX (RLscridxpa) and the COS (RLflex_ani). The following layout illustrates the precedence and the ani_ii_digs attribute to be outpulsed with the call:

| RLrt_mcrt | RLrt_routing | RLscridxpa | RLflex_ani |
|---|---|---|---|
| ani_ii_digs | ani_ii_digs | ani_ii_digits | ani_ii_digs |
| defined | N/A | N/A | N/A |
| null | defined | N/A | N/A |
| null | null | defined | N/A |
| null | null | null | defined |

If the value of RLrt_mcrt.ani_ii_digs is FC_ANI_NULL, RLrt_routing.ani_ii_digs is FC_ANI_NULL, and RLscridxpa does not exist, then the ani_ii_digs will be derived from RLflex_ani and the value will be based on the COS of the originating party. Flexible ANI II feature is a secured feature and must be purchased to use. Flexible ANI Enhancements secured feature is depended on the Flexible ANI II secured feature.

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# FMASSIGN

## 1. Description

This relation contains the Facilities Management Feature Assignment.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |

## 3. Field Layout

```
FMASSIGN    relid = 782   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     gcsrid      DMUNS16      (ushort)     <--- key
     apid        DMAPSITE     (ushort: 8)     <--- key
     timeout     DMUNS8       (ushort: 8)
 (a) max_sessns  DMUNS4       (ushort: 4)
 (b) ars         DMBOOL       (enum: 1)
 (c) aca         DMBOOL       (enum: 1)
 (d) auth        DMBOOL       (enum: 1)
 (e) acct        DMBOOL       (enum: 1)
 (f) acsr        DMBOOL       (enum: 1)
 (g) mdr         DMBOOL       (enum: 1)
 (h) mod_que     DMBOOL       (enum: 1)
 (i) td_to_cl    DMBOOL       (enum: 1)
 (j) tod         DMBOOL       (enum: 1)
     amac        DMMC_BILL    (struct)
 (k)     flat        DMBOOL       (enum: 1)
 (l)     usefreq1    DMBOOL       (enum: 1)
 (m)     usefreq2    DMBOOL       (enum: 1)
 (n)     usefreq3    DMBOOL       (enum: 1)
 (o)     usefreq4    DMBOOL       (enum: 1)
 (p)     actchrg     DMBOOL       (enum: 1)
 (q)     dactchrg    DMBOOL       (enum: 1)
 (r)     duration    DMBOOL       (enum: 1)
 (s)     change      DMBOOL       (enum: 1)
       User, Compacted and Stored Tuple Layout   FMASSIGN
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |--------------+--------------+--------------+--------------|
   |                             |              |              |
 0 |             gcsrid          |      apid    |    timeout   |
   |--------------+--------------+--------------+--------------|
   |       | | | | | | | | |                                   |
 4 |   a   |b|c|d|e|f|g|h|i|j|***********************************|
   |==============+===========  amac ===========+==============|
   | | | | | | | | | |                                         |
 8 |k|l|m|n|o|p|q|r|s|*****************************************|
   |==============+==============+==============+==============|
```

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( 12 bytes )

## 4. Population rules for RLfmassign

### Relation Description

Facilities management feature assignment
This relation defines the facilities management features (business and residential customer services [BRCS] features) for a gcsrid/apid pair. A tupple is generated for each assigned gcsrid/apid pair in the switch.

**Attribute:**
gcsrid
**Fullname:**
Business customer ID (BCID)
**Attribute Description:**
A number 1 through 65535 defining BCID.

**Attribute:**
apid
**Fullname:**
Applications processor ID (APID)
**Attribute Description:**
A number 1 through 255 defining APID.

**Attribute:**
ars
**Fullname:**
Automatic route selection
**Attribute Description:**
Indicates if automatic route selection administration and control is allowed.

**Attribute:**
aca
**Fullname:**
Automatic circuit assurance
**Attribute Description:**
Indicates if the automatic circuit assurance (periodic measurement) administration and control is allowed.

**Attribute:**
auth
**Fullname:**
Authorization codes
**Attribute Description:**
Indicates if authorization codes administration and control is allowed.

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**Attribute:**
acct
**Fullname:**
Account codes
**Attribute Description:**
Indicates if account codes administration and control is allowed.

**Attribute:**
acsr
**Fullname:**
Automatic customer station rearrangement
**Attribute Description:**
Indicates if automatic customer station rearrangement administration and control is allowed.

**Attribute:**
mdr
**Fullname:**
Message detail recording
**Attribute Description:**
Indicates if message detail recording administration and control is allowed.

**Attribute:**
mod_que
**Fullname:**
Modular queuing
**Attribute Description:**
Indicates if the modular queuing administration and control is allowed.

**Attribute:**
td_to_cl
**Fullname:**
Traffic data to customer location
**Attribute Description:**
Indicates whether traffic data to customer location administration and control is allowed.

**Attribute:**
tod
**Fullname:**
Time of day option
**Attribute Description:**
Indicates whether time of day administration and control is allowed.

**Attribute:**

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amac

**Fullname:**

Customer billing option

**Attribute Description:**

This is a boolean structure indicating the combination of several types of billing. In each case a DBYES indicates that the type of billing is applicable and DBNO indicates that it is not. See domain DMmc_bill.

**Attribute:**

amac.flat

**Fullname:**

Flat rate billing

**Attribute Description:**

Indicates flat rate billing, no usage-sensitive charge. If flat = DBYES, then all other subattributes must equal DBNO. If flat = DBNO, then at least one sub-attribute must equal DBYES.

**Attribute:**

amac.usefreq1

**Fullname:**

Billing frequency 1

**Attribute Description:**

For use of event 1.

**Attribute:**

amac.usefreq2

**Fullname:**

Billing frequency 2

**Attribute Description:**

For use of event 2.

**Attribute:**

amac.usefreq3

**Fullname:**

Billing frequency 3

**Attribute Description:**

For use of event 3.

**Attribute:**

amac.usefreq4

**Fullname:**

Billing frequency 4

**Attribute Description:**

For use of event 4.

**Attribute:**

amac.actchrg

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**Fullname:**
Activation charge
**Attribute Description:**
Indicates charge for activation.

**Attribute:**
amac.dactchrg
**Fullname:**
Deactivation charge
**Attribute Description:**
Indicates usage charge for deactivation.

**Attribute:**
amac.duration
**Fullname:**
Duration charge
**Attribute Description:**
Indicates charge for duration of use.

**Attribute:**
amac.change
**Fullname:**
Change of parameter charge
**Attribute Description:**
Indicates change of parameter charge.

**Attribute:**
max_sessns
**Fullname:**
Maximum facilities management (FM) sessions allowed per gcsrid
**Attribute Description:**
Holds a value defining the maximum number of FM sessions allowed for every gcsrid.

**Attribute:**
timeout
**Fullname:**
No action timeout period
**Attribute Description:**
Indicates the automatic FM session termination when no action is seen.

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# FPHCHNLS

## 1. Description

Maps between Fast Pump R-DFI number and H-DFI circuit name.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 120 |
| expected tuples in relation | 20 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | DBNO |

## 3. Field Layout

```
FPHCHNLS    relid = 437   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL

     rsm         DMMODULE     (ushort: 8)     <--- key, not stored
 (a) fpdfi       DMUNS2       (ushort: 2)     <--- key, not stored
     hchan       DMCIRCUIT    (ushort)
         User and Compacted Tuple Layout   FPHCHNLS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |   |                                           |
  0 |      rsm      | a |*******************************************|
    |---------------+---------------+---------------+---------------|
    |                                 |                             |
  4 |             hchan               |*****************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     hchan       DMCIRCUIT    (ushort)
           Stored Tuple Layout     FPHCHNLS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             |
  0 |             hchan               |*****************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLfphchnls

**Relation Description** Fast Pump RDFI number and HDFI facility circuit name mapping.
Maps between Fast Pump RDFI number and HDFI facility circuit name

**Attribute: rsm**

**Fullname:** RSM module number

**Attribute Description** This attribute is one of three key attributes. It is of the type DMMODULE and can take values from 0 to 255. Because of the domain of type DMMODULE, no range check poprule is needed. Only equipped RSMs of a HSM will be in the relation.

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**Attribute: fpdfi**

**Fullname:** fast pump R-DFI number

**Attribute Description** This attribute is one of the two key attributes It is of the type DMUNS2 and can take the values from 0 to 3. These values must correspond to the four RDFIs (OA, OB, 1A, 1B) that can be chosen to set up Fast Pump paths on them. Because of the domain of type DMUNS2, no range check poprule is needed.

NOTE: The relative facility number is not accounted for in this relation, because fast pump paths can only be set up on T1 umbilicals which can carry the RSM Control Time-Slot (CTS), which are restricted to relative facility 0. Thus relative facility 0 is implied for these fast pump paths.

**Attribute: hchan**

**Fullname:** fast pump HDFI facility circuit name

**Attribute Description** The attribute hchan is of the type DMCIRCUIT and represents a Host DFI facility (PCHFAC) that can be used for the pump.

**Defines:** "db/DMcircuit.h", "db/DMmodule.h"

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# FRB1_G

## 1. Description

Storage relation for frbc trunk port to its subtending svc member trunk ports.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 60 |
| expected tuples | 6 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTORAGE |
| ks key store | AUTO |
| foldtype | DBGC31 |
| gkidxrel reverse index | rlFRB1_I |

## 3. Field Layout

```
FRB1_G      relid = 2761  DBSTORAGE  DBACC_GK    DBPRAM    FG      NULL

     gkFRB1_G    DMGK14       (ulong: 14)     <--- key, not stored
     frbcptr0    DMGK14       (ulong: 14)
     frbcptr1    DMGK14       (ulong: 14)
     frbcptr2    DMGK14       (ulong: 14)
     frbcptr3    DMGK14       (ulong: 14)
     frbcptr4    DMGK14       (ulong: 14)
     frbcptr5    DMGK14       (ulong: 14)
         User and Compacted Tuple Layout     FRB1_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkFRB1_G             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
  4 |          frbcptr0             |          frbcptr1             |*******|
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
  8 |          frbcptr2             |          frbcptr3             |*******|
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
 12 |          frbcptr4             |          frbcptr5             |*******|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
     frbcptr0    DMGK14       (ulong: 14)
     frbcptr1    DMGK14       (ulong: 14)
     frbcptr2    DMGK14       (ulong: 14)
     frbcptr3    DMGK14       (ulong: 14)
     frbcptr4    DMGK14       (ulong: 14)
     frbcptr5    DMGK14       (ulong: 14)
           Stored Tuple Layout   FRB1_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
```

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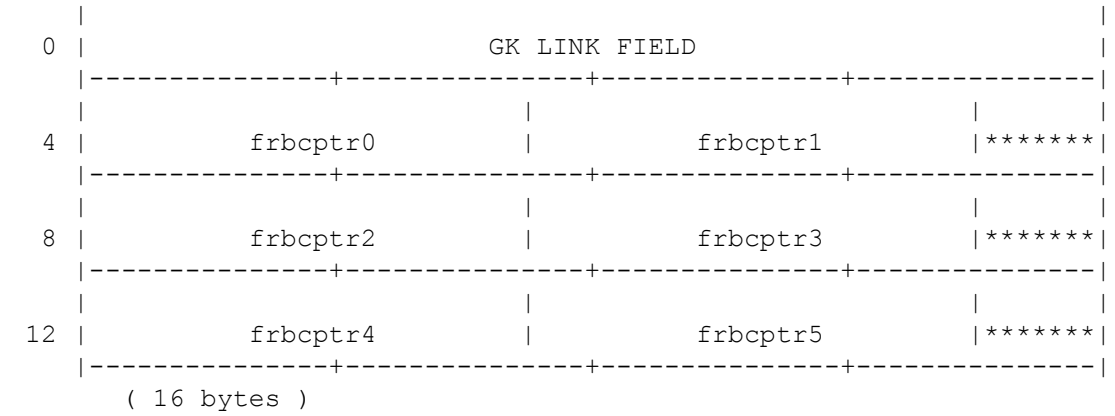


## 4. Population Rules for RLfrb1_g

There are no population rules for this relation.

# FRB2_G

## 1. Description

Storage relation for frbc trunk port to its subtending svc member trunk ports.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 60 |
| expected tuples | 6 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTORAGE |
| ks key store | AUTO |
| foldtype | DBGC31 |
| gkidxrel reverse index | rlFRB2_I |

## 3. Field Layout

```
FRB2_G      relid = 2762  DBSTORAGE  DBACC_GK    DBPRAM    FG      NULL

     gkFRB2_G    DMGK14       (ulong: 14)     <--- key, not stored
     mport0      DMGPORT       (ushort)
     mport1      DMGPORT       (ushort)
     mport2      DMGPORT       (ushort)
     mport3      DMGPORT       (ushort)
     mport4      DMGPORT       (ushort)
     mport5      DMGPORT       (ushort)
     mport6      DMGPORT       (ushort)
     mport7      DMGPORT       (ushort)
     mport8      DMGPORT       (ushort)
     mport9      DMGPORT       (ushort)
         User and Compacted Tuple Layout     FRB2_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkFRB2_G             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             mport0            |             mport1            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |             mport2            |             mport3            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |             mport4            |             mport5            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 16 |             mport6            |             mport7            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 20 |             mport8            |             mport9            |
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

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```
    mport0      DMGPORT       (ushort)
    mport1      DMGPORT       (ushort)
    mport2      DMGPORT       (ushort)
    mport3      DMGPORT       (ushort)
    mport4      DMGPORT       (ushort)
    mport5      DMGPORT       (ushort)
    mport6      DMGPORT       (ushort)
    mport7      DMGPORT       (ushort)
    mport8      DMGPORT       (ushort)
    mport9      DMGPORT       (ushort)
          Stored Tuple Layout   FRB2_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                          GK LINK FIELD                        |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |             mport0            |             mport1            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |             mport2            |             mport3            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |             mport4            |             mport5            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |             mport6            |             mport7            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |             mport8            |             mport9            |
   |---------------+---------------+---------------+---------------|
      ( 24 bytes )
```

## 4. Population Rules for RLfrbc_g

There are no population rules for this relation.

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# FRBC_R

## 1. Description

This relation maps a FRBC trunk port to its subtending svc member trunk ports.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 576 |
| expected tuples in relation | 60 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTORAGE |

## 3. Field Layout

```
FRBC_R      relid = 2767  DBSTORAGE  DBACC_HASH  DBPRAM    FP      NULL

     gport       DMGPORT      (struct)     <--- key
         member      DMGPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     frbcptr     DMGK14       (ulong: 14)
     num_mem     DMUNS7       (ushort: 7)
         User, Compacted and Stored Tuple Layout FRBC_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============ gport ============+===============|
    |                                |                |               |
  0 |              member            |****************|     module    |
    |================+===============+================+===============|
    |                              |   |              |               |
  4 |           frbcptr            |***|   num_mem    |***************|
    |----------------+---------------+----------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLfrbc_r

There are no population rules for this relation.

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# FRBC_SVC

## 1. Description

This relation maps a Frame Relay Bearer Channel (FRBC) trunk port to its subtending BCM trunk ports.

This is a virtual update relation. The tree diagram Figure 1 depicts the stored structure of virtual relation FRBC_SVC.

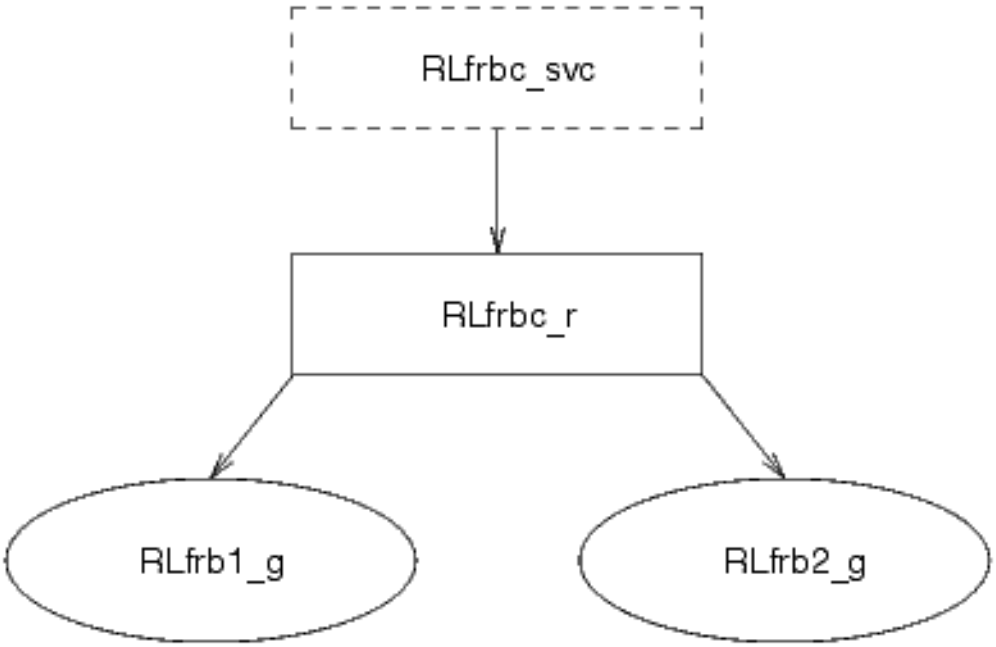


**Figure 1 Virtual Relation FRBC_SVC**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
FRBC_SVC    relid = 2757  DBSTATIC   DBACC_OPV   DBNOTODD  FP      NULL

     gport       DMGPORT      (struct)     <--- key
         member      DMGPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     num_mem     DMUNS7       (ushort: 7)
     mport0      DMGPORT       (ushort)
     mport1      DMGPORT       (ushort)
     mport2      DMGPORT       (ushort)
     mport3      DMGPORT       (ushort)
     mport4      DMGPORT       (ushort)
     mport5      DMGPORT       (ushort)
     mport6      DMGPORT       (ushort)
     mport7      DMGPORT       (ushort)
```

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```
mport8      DMGPORT       (ushort)
mport9      DMGPORT       (ushort)
mport10     DMGPORT       (ushort)
mport11     DMGPORT       (ushort)
mport12     DMGPORT       (ushort)
mport13     DMGPORT       (ushort)
mport14     DMGPORT       (ushort)
mport15     DMGPORT       (ushort)
mport16     DMGPORT       (ushort)
mport17     DMGPORT       (ushort)
mport18     DMGPORT       (ushort)
mport19     DMGPORT       (ushort)
mport20     DMGPORT       (ushort)
mport21     DMGPORT       (ushort)
mport22     DMGPORT       (ushort)
mport23     DMGPORT       (ushort)
mport24     DMGPORT       (ushort)
mport25     DMGPORT       (ushort)
mport26     DMGPORT       (ushort)
mport27     DMGPORT       (ushort)
mport28     DMGPORT       (ushort)
mport29     DMGPORT       (ushort)
mport30     DMGPORT       (ushort)
mport31     DMGPORT       (ushort)
mport32     DMGPORT       (ushort)
mport33     DMGPORT       (ushort)
mport34     DMGPORT       (ushort)
mport35     DMGPORT       (ushort)
mport36     DMGPORT       (ushort)
mport37     DMGPORT       (ushort)
mport38     DMGPORT       (ushort)
mport39     DMGPORT       (ushort)
mport40     DMGPORT       (ushort)
mport41     DMGPORT       (ushort)
mport42     DMGPORT       (ushort)
mport43     DMGPORT       (ushort)
mport44     DMGPORT       (ushort)
mport45     DMGPORT       (ushort)
mport46     DMGPORT       (ushort)
mport47     DMGPORT       (ushort)
mport48     DMGPORT       (ushort)
mport49     DMGPORT       (ushort)
mport50     DMGPORT       (ushort)
mport51     DMGPORT       (ushort)
mport52     DMGPORT       (ushort)
mport53     DMGPORT       (ushort)
mport54     DMGPORT       (ushort)
mport55     DMGPORT       (ushort)
mport56     DMGPORT       (ushort)
mport57     DMGPORT       (ushort)
mport58     DMGPORT       (ushort)
mport59     DMGPORT       (ushort)

    User, Compacted and Stored Tuple Layout   FRBC_SVC
```

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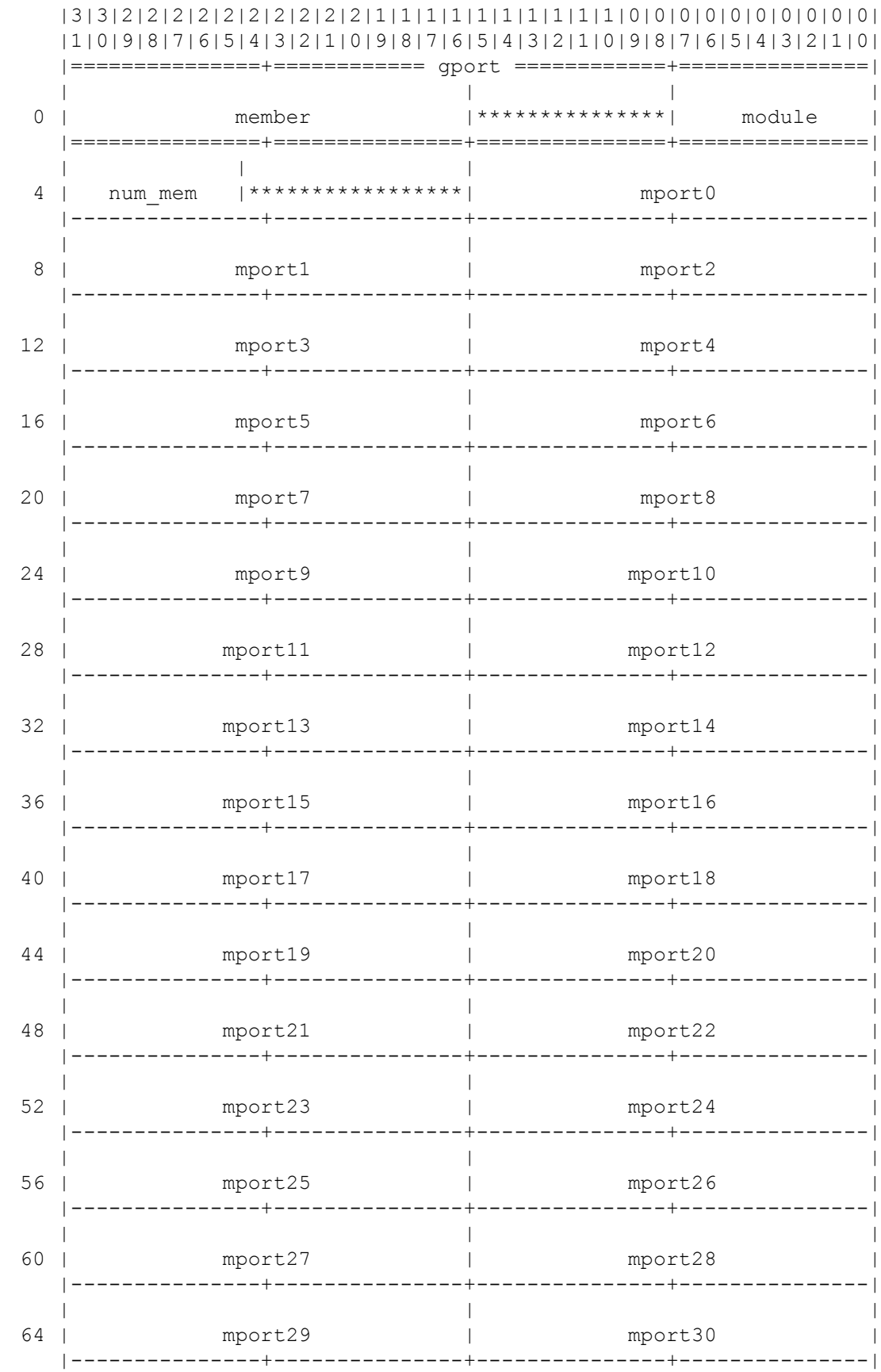


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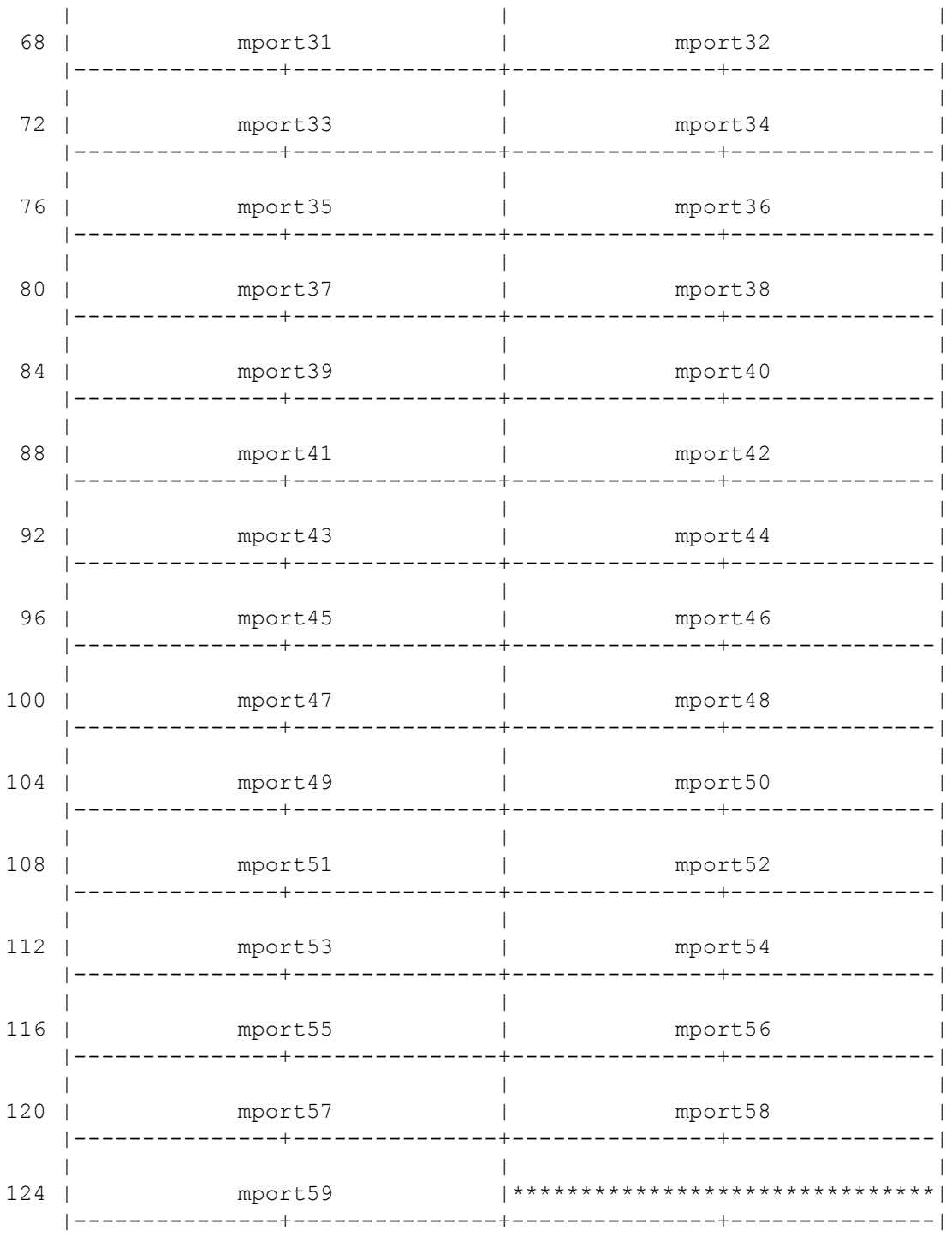


( 128 bytes )

```
domain alFRBC_SVC struct  (3 sub-attributes)

         gport       .0fake       (struct)
             member      unsigned short (ushort)
             module      .0.fake      (ushort)
         num_mem     .12.fake     (ushort: 7)
         mport       .13.fake     (array [ 60 ] of unsigned short )
         Structure Layout    alFRBC_SVC
```

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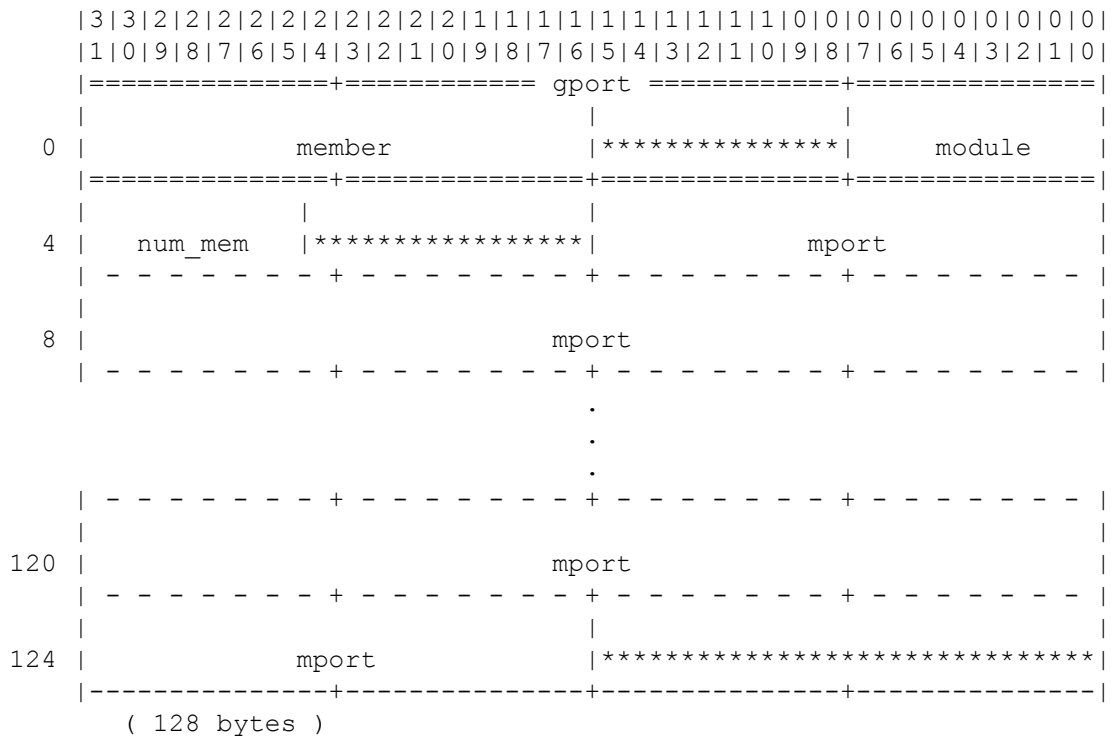


## 4. Population Rules for RLfrbc_svc

**Relation Description** This relation maps the FRBC to its FR SVCs.
This relation maps a Frame Relay Bearer Channel (FRBC) trunk port to its subtending Frame Relay Switched Virtual Circuit (FR SVC) trunk ports.

**Attribute: gport**

**Fullname:** Global port number of the FRBC trunk port (key)

**Attribute Description** This attribute has the global port number for the FRBC trunk port

**Attribute: num_mem**

**Fullname:** Number of FR SVCs associated with this FRBC.

**Attribute Description** This attribute gives the number of the FR SVCs associated with a given FRBC.

**Attribute: mport[*]**

**Fullname:** Port name for each FR SVC.

**Attribute Description** This attribute gives the port name for each FR SVC.

**Defines:** "db/DMport.h",
"db/DMcircuit.h",
"db/DMunitno.h"

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# FTSCCPNI

## 1. Description

Country codes to which FTS NRA calls must be routed over a private network.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| access type | DBACC_LIN |

## 3. Field Layout

```
FTSCCPNI    relid = 2050  DBSTATIC   DBACC_LIN   DBPRAM    FG      NULL

     cc          DMCHAR3      (array [ 3 ] of char )     <--- key
     spare       DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout   FTSCCPNI
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                 |               |
  0 |                       cc                        |     spare     |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLftsccpni

**Relation Description** Federal telecommunications system country codes to route over the private network interface (PNI).

This relation contains those country codes for which federal telecommunications system network remote access (FTS NRA) calls must be routed over the private network interface (PNI).

The maximum number of tuples is 20.

**Attribute: cc**

**Fullname:** Country Code.

**Attribute Description** Country code to which FTS NRA calls must be routed over the PNI.

**Attribute: spare**

**Fullname:** Spare.

**Attribute Description** Spare field.

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# FTSNANP

## 1. Description

NPAs or NPANXXs for which FTS NRA calls must be routed over the public network even if private network routing is indicated.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| access type | DBACC_HASH |

## 3. Field Layout

```
FTSNANP     relid = 2051  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL

     bnpanxx     DMBNPANXX    (ulong: 20)     <--- key
     spare       DMULONG      (ulong)
         User, Compacted and Stored Tuple Layout    FTSNA
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |                |
  0 |                 bnpanxx                       |****************|
    |---------------+---------------+---------------+---------------|
    |                                                                |
  4 |                              spare                             |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLftsnanp

**Relation Description** Federal Telecommunications System NPA-NXXs.

This relation contains those destination NPA-NXXs to which a federal telecommunications system network remote access (FTS NRA) call must be routed over the public network even if private network routing is indicated.

**Attribute: bnpanxx**

**Fullname:** Binary NPA-NXX.

**Attribute Description** NPA-0 (for all NXXs in the NPA) or NPA-NXX stored in binary.

**Attribute: spare**

**Fullname:** Spare.

**Attribute Description** Spare field.

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# FTSNXX

## 1. Description

NXXs dialed 700-NXX for FTS NRA.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8 |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| access type | DBACC_LIN |

## 3. Field Layout

```
FTSNXX      relid = 2052  DBSTATIC   DBACC_LIN   DBPRAM    FG      NULL

     nxx          DMNXX         (array [ 3 ] of char )     <--- key
     spare        DMUNS8        (ushort: 8)
         User, Compacted and Stored Tuple Layout FTSNXX
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                      nxx                      |     spare     |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLftsnxx

**Relation Description** Federal Telecommunications System NXXs.

This relation contains those NXX codes which indicate that a call dialed 700-NXX is a potential federal telecommunications system network remote access (FTS NRA) call.

The maximum number of tuples is 8.

**Attribute: nxx**

**Fullname:** NXX.

**Attribute Description** Office code.

**Attribute: spare**

**Fullname:** Spare.

**Attribute Description** Spare field.

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# FTSRTE

## 1. Description

Routing numbers for FTS NRA.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 5 |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| access type | DBACC_LIN |

## 3. Field Layout

```
FTSRTE      relid = 2053  DBSTATIC   DBACC_LIN   DBPRAM    FG      NULL

     routenum    DMDN10_BCD   (struct)     <--- key
         dn0         DMBCD        (ushort: 4)
         dn1         DMBCD        (ushort: 4)
         dn2         DMBCD        (ushort: 4)
         dn3         DMBCD        (ushort: 4)
         dn4         DMBCD        (ushort: 4)
         dn5         DMBCD        (ushort: 4)
         dn6         DMBCD        (ushort: 4)
         dn7         DMBCD        (ushort: 4)
         dn8         DMBCD        (ushort: 4)
         dn9         DMBCD        (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
     spare2      DMUNL24      (ulong: 24)
     spare1      DMUNS7       (ushort: 7)
 (a) attendant   DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout FTSRTE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+==========  routenum ==========+===============|
    |       |       |       |       |       |       |       |       |
  0 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |                                       |
  4 |  dn8  |  dn9  | digcnt|***************************************|
    |===============+===============+===============+===============|
    |                                               |             | |
  8 |                     spare2                    |    spare1   |a|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLftsrte

**Relation Description** Federal Telecommunications System routing numbers.

This relation contains routing numbers for federal telecommunications system network remote access (FTS NRA) calls.

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The maximum number of tuples is 5.

**Attribute: routenum**
**Fullname:** Routing Number.

**Attribute Description** Routing number for FTS NRA calls.

**Attribute: routenum.dn0**
**Fullname:** Digit number 0

**Attribute Description** This is the first digit of the route number.

**Attribute: routenum.dn1**
**Fullname:** Digit number 1

**Attribute Description** This is the second digit of the route number.

**Attribute: routenum.dn2**
**Fullname:** Digit number 2

**Attribute Description** This is the third digit of the route number.

**Attribute: routenum.dn3**
**Fullname:** Digit number 3

**Attribute Description** This is the fourth digit of the route number.

**Attribute: routenum.dn4**
**Fullname:** Digit number 4

**Attribute Description** This is the fifth digit of the route number.

**Attribute: routenum.dn5**
**Fullname:** Digit number 5

**Attribute Description** This is the sixth digit of the route number.

**Attribute: routenum.dn6**
**Fullname:** Digit number 6

**Attribute Description** This is the seventh digit of the route number.

**Attribute: routenum.dn7**
**Fullname:** Digit number 7

**Attribute Description** This is the eighth digit of the route number.

**Attribute: routenum.dn8**
**Fullname:** Digit number 8

**Attribute Description** This is the ninth digit of the route number.

**Attribute: routenum.dn9**
**Fullname:** Digit number 9

**Attribute Description** This is the tenth digit of the route number.

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**Attribute: routenum.digcnt**

**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the route number.

**Attribute: attendant**

**Fullname:** Attendant number.

**Attribute Description** Indicates when this routing number is for an attendant number.

**Attribute: spare1**

**Fullname:** First spare.

**Attribute Description** Spare field.

**Attribute: spare2**

**Fullname:** Second spare.

**Attribute Description** Spare field.

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# FTTH_SIG

## 1. Description

Contains fiber to the home resistor signatures for use by metallic testing.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 37000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | TLWS |
| relation type | DBSTATIC |
| head table size | 1024 |
| data page size | 1024 |
| page level | 0 |
| permutation type | unperm |
| foldtype | DBDEFAULT |

## 3. Field Layout

```
FTTH_SIG    relid = 1735  DBSTATIC   DBACC_HASH  DBPRAM    LP      TLWS

     module      DMMODULE     (ushort: 8)     <--- key
     rtname      DMCIRCUIT    (ushort)     <--- key
     phs1_dt     DMFTTH_G
         r1_min      DMFTTH_RES   (ushort)
         r1_max      DMFTTH_RES   (ushort)
         r2_min      DMFTTH_RES   (ushort)
         r2_max      DMFTTH_RES   (ushort)
         r3_min      DMFTTH_RES   (ushort)
         r3_max      DMFTTH_RES   (ushort)
     ndtm        DMFTTH_G
         r1_min      DMFTTH_RES   (ushort)
         r1_max      DMFTTH_RES   (ushort)
         r2_min      DMFTTH_RES   (ushort)
         r2_max      DMFTTH_RES   (ushort)
         r3_min      DMFTTH_RES   (ushort)
         r3_max      DMFTTH_RES   (ushort)
     drop_ok     DMFTTH_G
         r1_min      DMFTTH_RES   (ushort)
         r1_max      DMFTTH_RES   (ushort)
         r2_min      DMFTTH_RES   (ushort)
         r2_max      DMFTTH_RES   (ushort)
         r3_min      DMFTTH_RES   (ushort)
         r3_max      DMFTTH_RES   (ushort)
     no_ringr    DMFTTH_G
         r1_min      DMFTTH_RES   (ushort)
         r1_max      DMFTTH_RES   (ushort)
         r2_min      DMFTTH_RES   (ushort)
         r2_max      DMFTTH_RES   (ushort)
         r3_min      DMFTTH_RES   (ushort)
         r3_max      DMFTTH_RES   (ushort)
     dt_femf     DMFTTH_G
         r1_min      DMFTTH_RES   (ushort)
```

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```
        r1_max      DMFTTH_RES   (ushort)
        r2_min      DMFTTH_RES   (ushort)
        r2_max      DMFTTH_RES   (ushort)
        r3_min      DMFTTH_RES   (ushort)
        r3_max      DMFTTH_RES   (ushort)
    off_hook    DMFTTH_G
        r1_min      DMFTTH_RES   (ushort)
        r1_max      DMFTTH_RES   (ushort)
        r2_min      DMFTTH_RES   (ushort)
        r2_max      DMFTTH_RES   (ushort)
        r3_min      DMFTTH_RES   (ushort)
        r3_max      DMFTTH_RES   (ushort)
    haz_volt    DMFTTH_G
        r1_min      DMFTTH_RES   (ushort)
        r1_max      DMFTTH_RES   (ushort)
        r2_min      DMFTTH_RES   (ushort)
        r2_max      DMFTTH_RES   (ushort)
        r3_min      DMFTTH_RES   (ushort)
        r3_max      DMFTTH_RES   (ushort)
    phs1_rt     DMFTTH_G
        r1_min      DMFTTH_RES   (ushort)
        r1_max      DMFTTH_RES   (ushort)
        r2_min      DMFTTH_RES   (ushort)
        r2_max      DMFTTH_RES   (ushort)
        r3_min      DMFTTH_RES   (ushort)
        r3_max      DMFTTH_RES   (ushort)
    fbr_oof     DMFTTH_G
        r1_min      DMFTTH_RES   (ushort)
        r1_max      DMFTTH_RES   (ushort)
        r2_min      DMFTTH_RES   (ushort)
        r2_max      DMFTTH_RES   (ushort)
        r3_min      DMFTTH_RES   (ushort)
        r3_max      DMFTTH_RES   (ushort)
        User, Compacted and Stored Tuple Layout   FTTH_SIG
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |               |                               |
 0 |     module    |***************|             rtname             |
   |===============+=========== phs1_dt ===========+===============|
   |                               |                               |
 4 |             r1_min            |             r1_max            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |             r2_min            |             r2_max            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |             r3_min            |             r3_max            |
   |===============+============  ndtm ============+===============|
   |                               |                               |
16 |             r1_min            |             r1_max            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |             r2_min            |             r2_max            |
```

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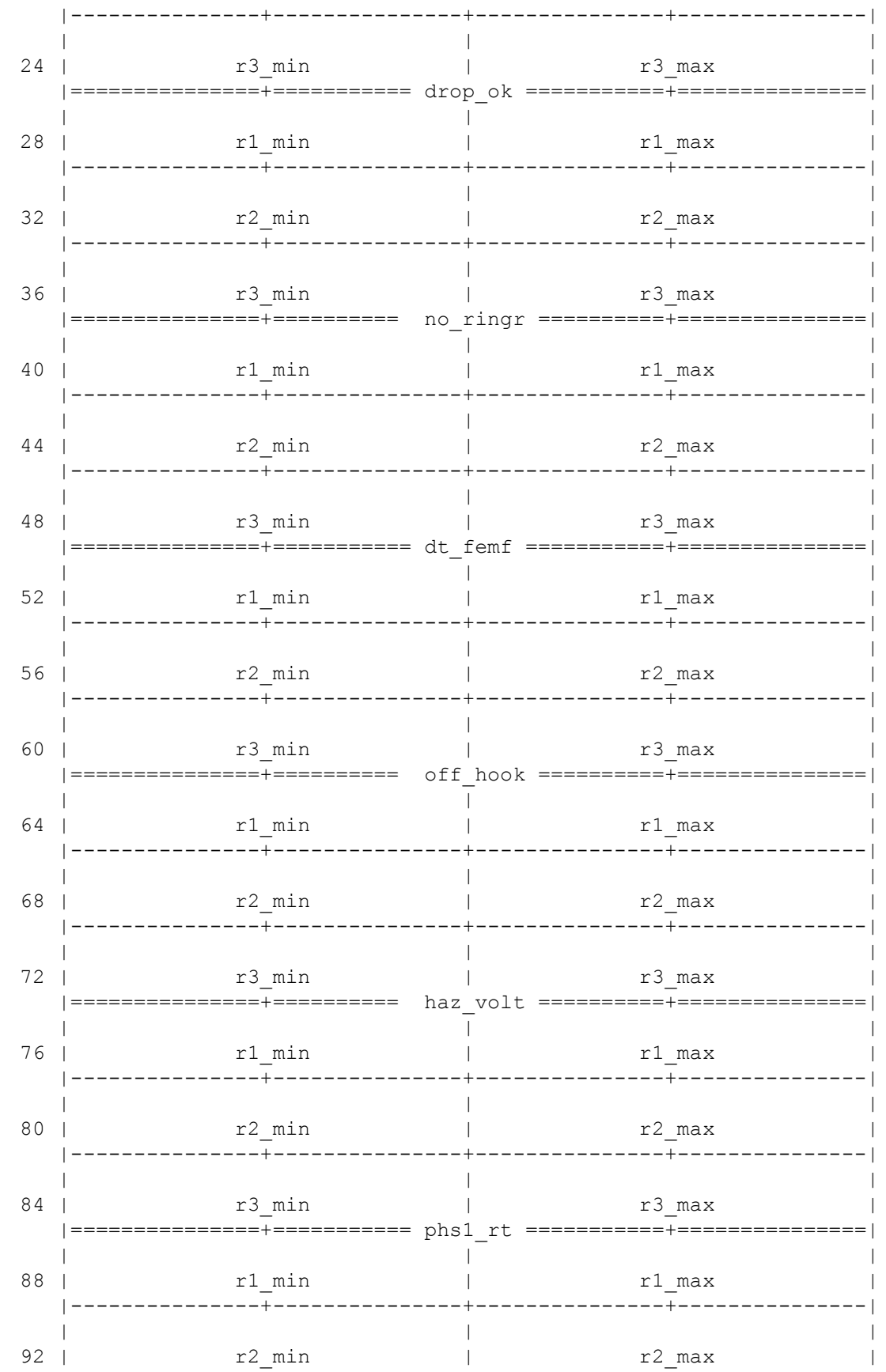


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```
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 96 |             r3_min            |             r3_max            |
    |===============+=========== fbr_oof ===========+===============|
    |                               |                               |
100 |             r1_min            |             r1_max            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
104 |             r2_min            |             r2_max            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
108 |             r3_min            |             r3_max            |
    |===============+===============+===============+===============|
      ( 112 bytes )
domain alFTTH_SIG   struct  (3 sub-attributes)
         module      .1.fake      (ushort)
         rtname      unsigned short (ushort)
         sigs        .2.fake      (array [ 9 ] of .0fake )
             r1_min      unsigned short (ushort)
             r1_max      unsigned short (ushort)
             r2_min      unsigned short (ushort)
             r2_max      unsigned short (ushort)
             r3_min      unsigned short (ushort)
             r3_max      unsigned short (ushort)
         Structure Layout      alFTTH_SIG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |     module    |***************|             rtname             |
    |===============+=========== sigs[0] ===========+===============|
    |                               |                               |
  4 |             r1_min            |             r1_max            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |             r2_min            |             r2_max            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |             r3_min            |             r3_max            |
    |===============+=========== sigs[1] ===========+===============|
    |                               |                               |
 16 |             r1_min            |             r1_max            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 20 |             r2_min            |             r2_max            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 24 |             r3_min            |             r3_max            |
    |===============+=========== sigs[2] ===========+===============|
    |                               |                               |
 28 |             r1_min            |             r1_max            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 32 |             r2_min            |             r2_max            |
```

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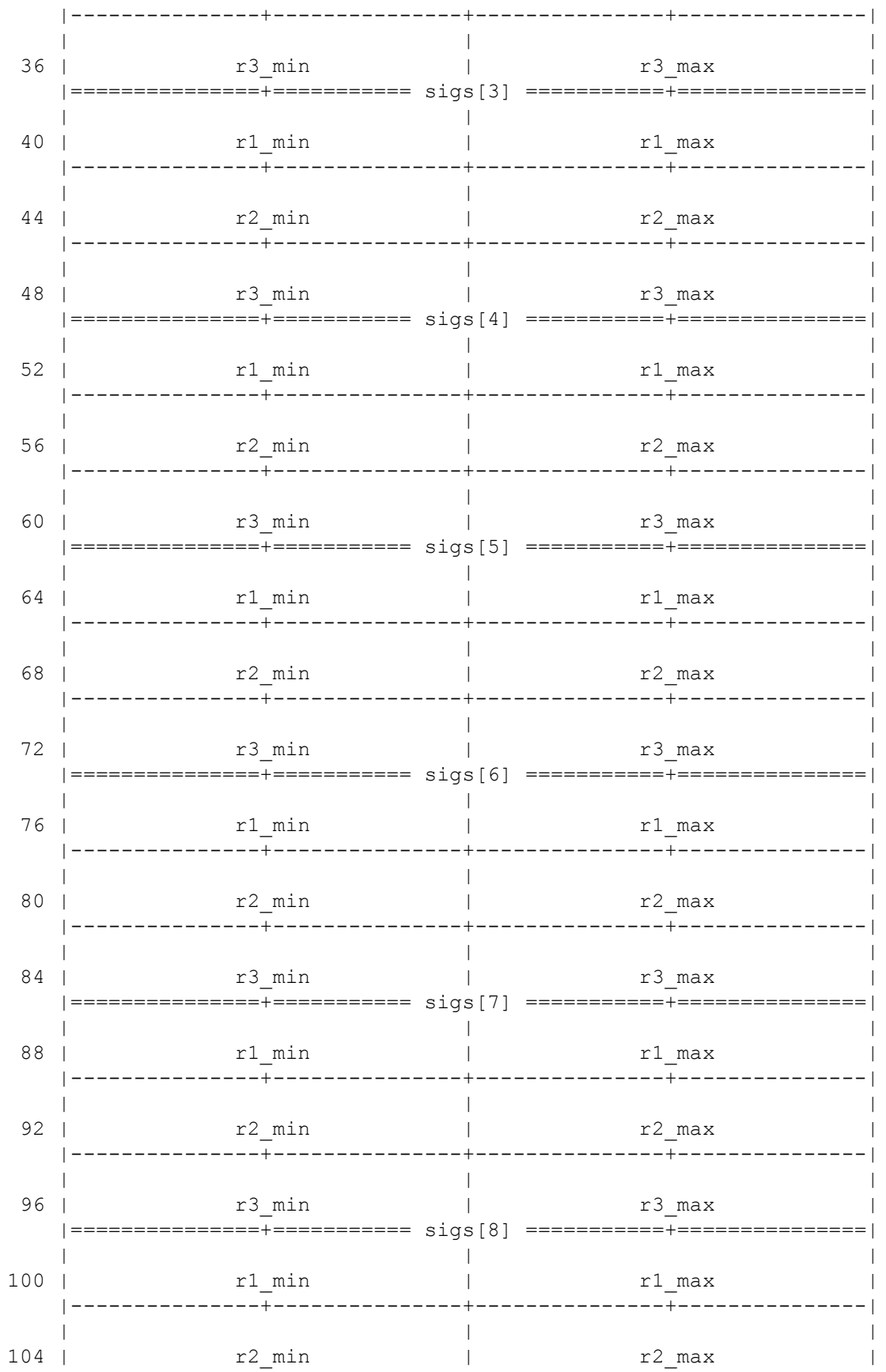


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```
    |---------------+---------------+---------------+---------------|
    |                               |                               |
108 |             r3_min            |             r3_max            |
    |===============+===============+===============+===============|
       ( 112 bytes )
```

## 4. Population Rules for RLftth_sig

**Relation Description** This relation maps the TR8 remote terminal (RT) circuit name to the fiber to the home resistor signatures for the RT.

Resistor signatures for a particular RT must be supplied by the RT vendor.

**Attribute: module**

**Fullname:** Module Number

**Attribute Description** The module number is needed to determine which RT this tuple corresponds to.

**Attribute: rtname**

**Fullname:** RT Circuit Name

**Attribute Description** This is the internal circuit name for a TR8 RT.

**Attribute: phs1_dt**

**Fullname:** Phase 1 Distant Terminal Fiber Good

**Attribute Description** This is a structure containing six resistor values (tip-ring min, tip-ring max, tip-ground min, tip-ground max, ring-ground min, and ring-ground max) for phase 1 distant terminal fiber good.

**Attribute: phs1_dt.r1_min**

**Fullname:** Tip-Ring Min

**Attribute Description** This is the tip-ring minimum resistor value in K-Ohms.

**Attribute: phs1_dt.r1_max**

**Fullname:** Tip-Ring Max

**Attribute Description** This is the tip-ring maximum resistor value in K-Ohms.

**Attribute: phs1_dt.r2_min**

**Fullname:** Tip-Ground Min

**Attribute Description** This is the tip-ground minimum resistor value in K-Ohms.

**Attribute: phs1_dt.r2_max**

**Fullname:** Tip-Ground Max

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**Attribute Description** This is the tip-ground maximum resistor value in K-Ohms.

**Attribute: phs1_dt.r3_min**
**Fullname:** Ring-Ground Min

**Attribute Description** This is the ring-ground minimum resistor value in K-Ohms.

**Attribute: phs1_dt.r3_max**
**Fullname:** Ring-Ground Max

**Attribute Description** This is the ring-ground maximum resistor value in K-Ohms.

**Attribute: ndtm**
**Fullname:** RT-distant terminal fiber good and bad/no drop test module (DTM)

**Attribute Description** This is a structure containing six resistor values (tip-ring min, tip-ring max, tip-ground min, tip-ground max, ring-ground min, and ring-ground max) for RT-distant terminal fiber good and bad/no DTM.

**Attribute: ndtm.r1_min**
**Fullname:** Tip-Ring Min

**Attribute Description** This is the tip-ring minimum resistor value in K-Ohms.

**Attribute: ndtm.r1_max**
**Fullname:** Tip-Ring Max

**Attribute Description** This is the tip-ring maximum resistor value in K-Ohms.

**Attribute: ndtm.r2_min**
**Fullname:** Tip-Ground Min

**Attribute Description** This is the tip-ground minimum resistor value in K-Ohms.

**Attribute: ndtm.r2_max**
**Fullname:** Tip-Ground Max

**Attribute Description** This is the tip-ground maximum resistor value in K-Ohms.

**Attribute: ndtm.r3_min**
**Fullname:** Ring-Ground Min

**Attribute Description** This is the ring-ground minimum resistor value in K-Ohms.

**Attribute: ndtm.r3_max**
**Fullname:** Ring-Ground Max

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**Attribute Description** This is the ring-ground maximum resistor value in K-Ohms.

**Attribute: drop_ok**
**Fullname:** RT-Distant Terminal Fiber Good and Drop Test OK

**Attribute Description** This is a structure containing six resistor values (tip-ring min, tip-ring max, tip-ground min, tip-ground max, ring-ground min, and ring-ground max) for RT-distant terminal fiber good and drop test OK.

**Attribute: drop_ok.r1_min**
**Fullname:** Tip-Ring Min

**Attribute Description** This is the tip-ring minimum resistor value in K-Ohms.

**Attribute: drop_ok.r1_max**
**Fullname:** Tip-Ring Max

**Attribute Description** This is the tip-ring maximum resistor value in K-Ohms.

**Attribute: drop_ok.r2_min**
**Fullname:** Tip-Ground Min

**Attribute Description** This is the tip-ground minimum resistor value in K-Ohms.

**Attribute: drop_ok.r2_max**
**Fullname:** Tip-Ground Max

**Attribute Description** This is the tip-ground maximum resistor value in K-Ohms.

**Attribute: drop_ok.r3_min**
**Fullname:** Ring-Ground Min

**Attribute Description** This is the ring-ground minimum resistor value in K-Ohms.

**Attribute: drop_ok.r3_max**
**Fullname:** Ring-Ground Max

**Attribute Description** This is the ring-ground maximum resistor value in K-Ohms.

**Attribute: no_ringr**
**Fullname:** RT-Distant Terminal Fiber Good and No Ringer

**Attribute Description** This is a structure containing six resistor values (tip-ring min, tip-ring max, tip-ground min, tip-ground max, ring-ground min, and ring-ground max) for RT-distant terminal fiber good and no ringer.

**Attribute: no_ringr.r1_min**
**Fullname:** Tip-Ring Min

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**Attribute Description** This is the tip-ring minimum resistor value in K-Ohms.

**Attribute: no_ringr.r1_max**
**Fullname:** Tip-Ring Max

**Attribute Description** This is the tip-ring maximum resistor value in K-Ohms.

**Attribute: no_ringr.r2_min**
**Fullname:** Tip-Ground Min

**Attribute Description** This is the tip-ground minimum resistor value in K-Ohms.

**Attribute: no_ringr.r2_max**
**Fullname:** Tip-Ground Max

**Attribute Description** This is the tip-ground maximum resistor value in K-Ohms.

**Attribute: no_ringr.r3_min**
**Fullname:** Ring-Ground Min

**Attribute Description** This is the ring-ground minimum resistor value in K-Ohms.

**Attribute: no_ringr.r3_max**
**Fullname:** Ring-Ground Max

**Attribute Description** This is the ring-ground maximum resistor value in K-Ohms.

**Attribute: dt_femf**
**Fullname:** RT-Distant Terminal Fiber Good and Distant Terminal Fails FEMF/Leakage.

**Attribute Description** This is a structure containing six resistor values (tip-ring min, tip-ring max, tip-ground min, tip-ground max, ring-ground min, and ring-ground max) for RT-distant terminal fiber good and distant terminal fails FEMF/leakage.

**Attribute: dt_femf.r1_min**
**Fullname:** Tip-Ring Min

**Attribute Description** This is the tip-ring minimum resistor value in K-Ohms.

**Attribute: dt_femf.r1_max**
**Fullname:** Tip-Ring Max

**Attribute Description** This is the tip-ring maximum resistor value in K-Ohms.

**Attribute: dt_femf.r2_min**
**Fullname:** Tip-Ground Min

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**Attribute Description** This is the tip-ground minimum resistor value in K-Ohms.

**Attribute: dt_femf.r2_max**
**Fullname:** Tip-Ground Max

**Attribute Description** This is the tip-ground maximum resistor value in K-Ohms.

**Attribute: dt_femf.r3_min**
**Fullname:** Ring-Ground Min

**Attribute Description** This is the ring-ground minimum resistor value in K-Ohms.

**Attribute: dt_femf.r3_max**
**Fullname:** Ring-Ground Max

**Attribute Description** This is the ring-ground maximum resistor value in K-Ohms.

**Attribute: off_hook**
**Fullname:** RT-Distant Terminal Fiber Good and Receiver Off Hook

**Attribute Description** This is a structure containing six resistor values (tip-ring min, tip-ring max, tip-ground min, tip-ground max, ring-ground min, and ring-ground max) for RT-distant terminal fiber good and receiver off hook.

**Attribute: off_hook.r1_min**
**Fullname:** Tip-Ring Min

**Attribute Description** This is the tip-ring minimum resistor value in K-Ohms.

**Attribute: off_hook.r1_max**
**Fullname:** Tip-Ring Max

**Attribute Description** This is the tip-ring maximum resistor value in K-Ohms.

**Attribute: off_hook.r2_min**
**Fullname:** Tip-Ground Min

**Attribute Description** This is the tip-ground minimum resistor value in K-Ohms.

**Attribute: off_hook.r2_max**
**Fullname:** Tip-Ground Max

**Attribute Description** This is the tip-ground maximum resistor value in K-Ohms.

**Attribute: off_hook.r3_min**
**Fullname:** Ring-Ground Min

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**Attribute Description** This is the ring-ground minimum resistor value in K-Ohms.

**Attribute: off_hook.r3_max**
**Fullname:** Ring-Ground Max

**Attribute Description** This is the ring-ground maximum resistor value in K-Ohms.

**Attribute: haz_volt**
**Fullname:** RT-Distant Terminal Fiber Good and Hazardous Voltage Detected at Distant Terminal

**Attribute Description** This is a structure containing six resistor values (tip-ring min, tip-ring max, tip-ground min, tip-ground max, ring-ground min, and ring-ground max) for RT-distant terminal fiber good and hazardous voltage detected at distant terminal.

**Attribute: haz_volt.r1_min**
**Fullname:** Tip-Ring Min

**Attribute Description** This is the tip-ring minimum resistor value in K-Ohms.

**Attribute: haz_volt.r1_max**
**Fullname:** Tip-Ring Max

**Attribute Description** This is the tip-ring maximum resistor value in K-Ohms.

**Attribute: haz_volt.r2_min**
**Fullname:** Tip-Ground Min

**Attribute Description** This is the tip-ground minimum resistor value in K-Ohms.

**Attribute: haz_volt.r2_max**
**Fullname:** Tip-Ground Max

**Attribute Description** This is the tip-ground maximum resistor value in K-Ohms.

**Attribute: haz_volt.r3_min**
**Fullname:** Ring-Ground Min

**Attribute Description** This is the ring-ground minimum resistor value in K-Ohms.

**Attribute: haz_volt.r3_max**
**Fullname:** Ring-Ground Max

**Attribute Description** This is the ring-ground maximum resistor value in K-Ohms.

**Attribute: phs1_rt**
**Fullname:** RT-Distant Terminal Fiber Good, Phase 1.0 RT

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**Attribute Description** This is a structure containing six resistor values (tip-ring min, tip-ring max, tip-ground min, tip-ground max, ring-ground min, and ring-ground max) for RT-distant terminal fiber good, phase 1.0 RT.

**Attribute: phs1_rt.r1_min**
**Fullname:** Tip-Ring Min

**Attribute Description** This is the tip-ring minimum resistor value in K-Ohms.

**Attribute: phs1_rt.r1_max**
**Fullname:** Tip-Ring Max

**Attribute Description** This is the tip-ring maximum resistor value in K-Ohms.

**Attribute: phs1_rt.r2_min**
**Fullname:** Tip-Ground Min

**Attribute Description** This is the tip-ground minimum resistor value in K-Ohms.

**Attribute: phs1_rt.r2_max**
**Fullname:** Tip-Ground Max

**Attribute Description** This is the tip-ground maximum resistor value in K-Ohms.

**Attribute: phs1_rt.r3_min**
**Fullname:** Ring-Ground Min

**Attribute Description** This is the ring-ground minimum resistor value in K-Ohms.

**Attribute: phs1_rt.r3_max**
**Fullname:** Ring-Ground Max

**Attribute Description** This is the ring-ground maximum resistor value in K-Ohms.

**Attribute: fbr_oof**
**Fullname:** RT-Distant Terminal Fiber Out Of Frame

**Attribute Description** This is a structure containing six resistor values (tip-ring min, tip-ring max, tip-ground min, tip-ground max, ring-ground min, and ring-ground max) for RT-distant terminal fiber out of frame.

**Attribute: fbr_oof.r1_min**
**Fullname:** Tip-Ring Min

**Attribute Description** This is the tip-ring minimum resistor value in K-Ohms.

**Attribute: fbr_oof.r1_max**

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**Fullname:** Tip-Ring Max

**Attribute Description** This is the tip-ring maximum resistor value in K-Ohms.

**Attribute: fbr_oof.r2_min**
**Fullname:** Tip-Ground Min

**Attribute Description** This is the tip-ground minimum resistor value in K-Ohms.

**Attribute: fbr_oof.r2_max**
**Fullname:** Tip-Ground Max

**Attribute Description** This is the tip-ground maximum resistor value in K-Ohms.

**Attribute: fbr_oof.r3_min**
**Fullname:** Ring-Ground Min

**Attribute Description** This is the ring-ground minimum resistor value in K-Ohms.

**Attribute: fbr_oof.r3_max**
**Fullname:** Ring-Ground Max

**Attribute Description** This is the ring-ground maximum resistor value in K-Ohms.

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# FUNCTS

## 1. Description

CCS7 SCCP Global Title Translations on function number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
FUNCTS      relid = 2400  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL

     func_num    DMSHORT      (short)     <--- key
     tn_indx     DMUNS5       (ushort: 5)
         User, Compacted and Stored Tuple Layout FUNCTS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |         |                     |
  0 |             func_num          | tn_indx |*********************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLfuncts

**Relation Description** North American CCS7 (CCSNA7) Signaling Connection Control Part (SCCP) Global Title Translation on function number
This relation provides the CCSNA7 SCCP Global Title Translation number index for a particular function number.

**Attribute: func_num**

**Fullname:** Function number

**Attribute Description** The function number that is to be translated. The function number is a CCIS6 network address that identifies a point code in the network. The function number is buried in the Destination CCIS6 (DCIS6) message and is extracted by DCIS6 so SCCP can do global title translation on it to determine the Destination Point Code (DPC) and Subsystem Number (SSN) of the destination for the message.

**Attribute: tn_indx**

**Fullname:** Translation number index

**Attribute Description** A translation number index identifying the Destination Point Code (DPC) and Subsystem Number (SSN) associated with this function number.

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## 2.8 RELATIONS: G

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# GCKTI

## 1. Description

Global Service circuit Allocation Initialization

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| expected tuples in relation | 10 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | GCKT |
| relation type | DBSTATIC |
| trigger function | PCcpcdtr |
| density | 29 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
GCKTI       relid = 264   DBSTATIC   DBACC_HASH  DBPRAM    LP      GCKT
     sgn          DMUCHAR      (uchar)
     im           DMMODULE     (ushort: 8)  <--- key
     index        DMUNS8       (ushort: 8)
     unittype     DMUNITTYPE   (enum: 7)  <--- key
 (a) rsm          DMBOOL       (enum: 1)
     dsu          DMUNITNO     (ushort: 7)  <--- key
 (b) sg           DMUNS1       (ushort: 1)  <--- key
     board00      DMGCBRD      (struct)
         typ          DMGCBTYP     (enum: 3)
         nckts        DMUNS6       (ushort: 6)
     board01      DMGCBRD      (struct)
         typ          DMGCBTYP     (enum: 3)
         nckts        DMUNS6       (ushort: 6)
     board02      DMGCBRD      (struct)
         typ          DMGCBTYP     (enum: 3)
         nckts        DMUNS6       (ushort: 6)
     board03      DMGCBRD      (struct)
         typ          DMGCBTYP     (enum: 3)
         nckts        DMUNS6       (ushort: 6)
     board04      DMGCBRD      (struct)
         typ          DMGCBTYP     (enum: 3)
         nckts        DMUNS6       (ushort: 6)
     board05      DMGCBRD      (struct)
         typ          DMGCBTYP     (enum: 3)
         nckts        DMUNS6       (ushort: 6)
     board06      DMGCBRD      (struct)
         typ          DMGCBTYP     (enum: 3)
         nckts        DMUNS6       (ushort: 6)
     board07      DMGCBRD      (struct)
         typ          DMGCBTYP     (enum: 3)
         nckts        DMUNS6       (ushort: 6)
         User, Compacted and Stored Tuple Layout  GCKTI
```

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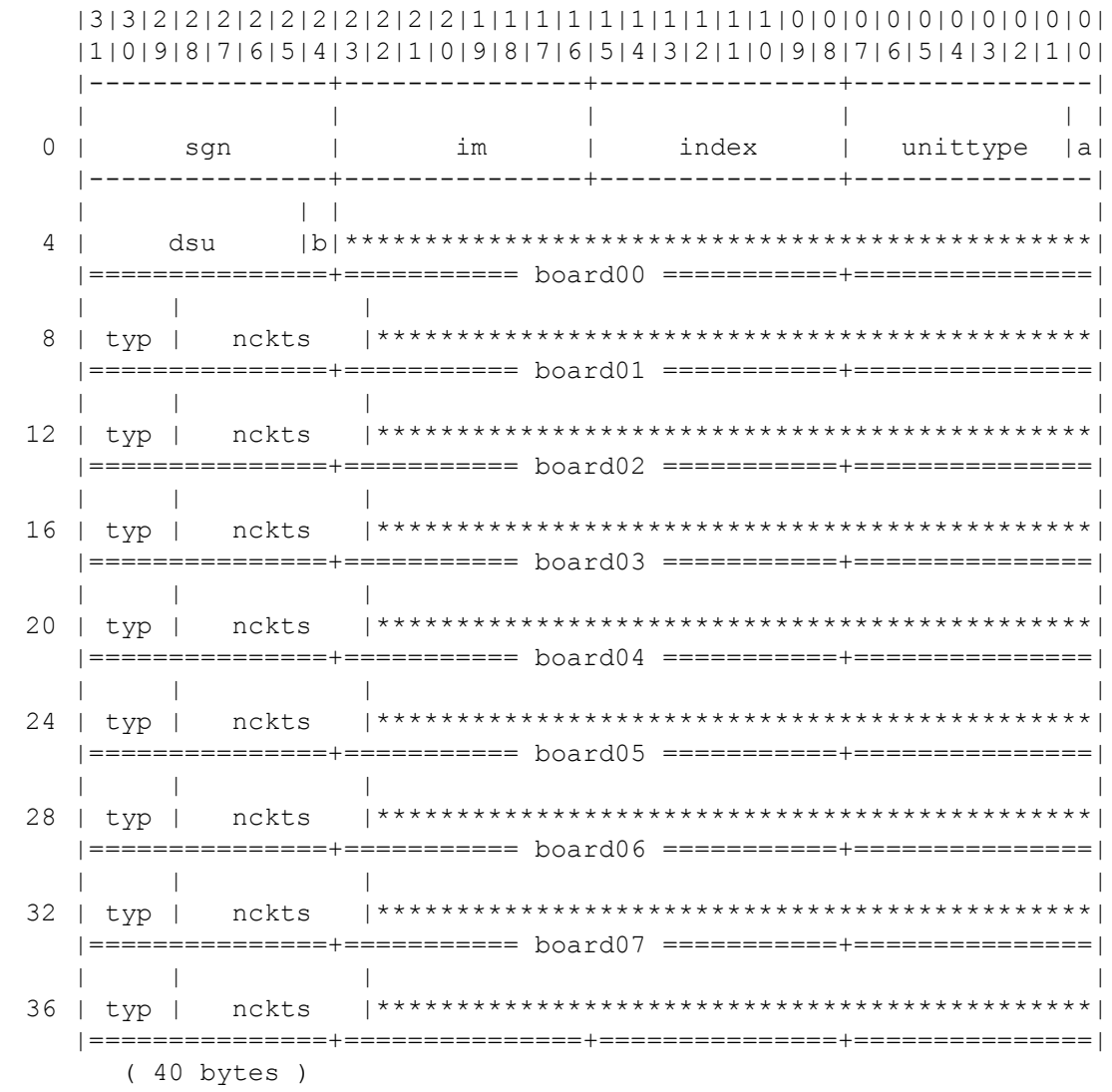


( 40 bytes )

## 4. Population Rules for RLgckti

**Relation Description**
Global Service circuit Allocation Initialization.

**Attribute: im**

**Fullname:** switching module number

**Attribute Description** identifies the switching module number of the GDSU

**Attribute: unittype**

**Fullname:** Digital Service Unit Type

**Attribute Description** Identifies the Digital Service Unit Type;

**Attribute: dsu**

**Fullname:** digital services unit number

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**Attribute Description** to identify the digital services unit number

**Attribute: sg**

**Fullname:** service group

**Attribute Description** Identifies the service group of the GDSU/GDSF. For GDSF, the service groups are the PICB number module by 2;

**Attribute: index**

**Fullname:** index

**Attribute Description**

```
index to RLCCATBL  (key ccadx)
*           Each tuple in this relation should have a different
*           index. Service groups 0 should start with an index
*           of 0 and continue 1, 2, ..., up to 127 (max).  Service
*           group  1 should start with an index of 255 and continue
*           254,253, ...,  down to 128(min).  Mix the GDSF
*           units with the existing GDSU service  groups.
*           Each GDSF unit exists in either service group
*            depends upon the associated PICB number, which
*           will balance  the conference circuits on GDSF to
*           both service group 0 and 1.   For example:
```

| TUPLE | SM | UNITTYPE | DSU | SG | INDEX |
|---|---|---|---|---|---|
| 1 | x | SMDSU | 1 | 0 | 0 |
| 3 | x | SMDSU | 2 | 0 | 1 |
| 5 | x | SMDSU | 3 | 0 | 2 |
| 7 | x | SMGDSF | 0 | 0 | 3 |
| 9 | y | SMDSU | 1 | 0 | 4 |
| 11 | y | SMDSU | 2 | 0 | 5 |
| 13 | y | SMGDSF | 0 | 0 | 6 |
| 15 | z | SMDSU | 1 | 0 | 7 |
| . | . | . | . | . | . |
| . | . | . | . | . | . |
| . | . | . | . | . | . |
| 16 | z | SMDSU | 1 | 1 | 248 |
| 14 | y | SMGDSF | 1 | 1 | 249 |
| 12 | y | SMDSU | 2 | 1 | 250 |
| 10 | y | SMDSU | 2 | 1 | 251 |
| 8 | x | SMGDSF | 1 | 1 | 252 |
| 6 | x | SMDSU | 3 | 1 | 253 |
| 4 | x | SMDSU | 2 | 1 | 254 |
| 2 | x | SMDSU | 1 | 1 | 255 |

**Attribute: rsm**

**Fullname:** remote switching module

**Attribute Description** DBYES if the switching module is an RSM; DBNO otherwise.

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**Attribute: sgn**

**Fullname:** service group number

**Attribute Description** service group number = PICB + 1 (service group number of internal circuit name)

**Attribute: board[*]**

**Fullname:** GDSU circuit board identifier

**Attribute Description** Each board has two (sub) attributes. The sub-attributes are used to show what hardware exists in this board slot.

**Attribute: board[*].typ**

**Fullname:** GDSU/GDSF circuit type

**Attribute Description** For GDSU: PCGC3CONF if slot contains a 3-port conference circuit (TN234 or TN841); PCGC6CONF if slot contains a 6-port conference circuit (TN1032); PCGCNULL if slot is empty (unequipped).
For GDSF; PCGC3CONF if unit contains a 3-port conference circuits. PCGC6CONF if unit contains a 6-port conference circuits. PCGC10CONF if unit contains a 10-port conference circuits. PCGCNULL if slot is not used.

**Attribute: board[*].nckts**

**Fullname:** number of circuits

**Attribute Description** FOR GDSU: 2 if slot contains a TN234 board; 5 if slot contains a TN841 board; 2 if slot contains a TN1032 board; 0 if slot is empty (unequipped).
For GDSF: The total number of 3-port conference leading circuits on this unit, it is populated with PCGC3CONF board type. The total number of 6-port conference leading circuits on this unit, it is populated with PCGC6CONF board type. The total number of 10-port conference leading circuits on this unit, it is populated with PCGC10CONF board type. 0 if it is populated with PCGCNULL board type.

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# GDSF_CNT

## 1. Description

Count of GDSF tone generator, tone transceiver and guard-data-guard tone transceiver resources available on a per SM basis.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 192 |
| expected tuples in relation | 5 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
GDSF_CNT    relid = 2164  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCDATA
     sm          DMMODULE     (ushort: 8)  <--- key
     tgen_cnt    DMUCHAR      (uchar)
     txcvr_cnt   DMUCHAR      (uchar)
     gtxcvr_cnt  DMUCHAR      (uchar)
         User, Compacted and Stored Tuple Layout   GDSF_CNT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  0 |       sm      |    tgen_cnt   |   txcvr_cnt   |   gtxcvr_cnt  |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
domain alGDSF_CNT   struct  (2 sub-attributes)
         sm          .1.fake      (ushort)
         cnt         .2.fake      (array [ 3 ] of unsigned char )
         Structure Layout      alGDSF_CNT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |       sm      |                     cnt                       |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLgdsf_cnt

**Relation Description**
Global Digital Service Function Counts relation.

This relation provides the number of resources available of GDSF tone generator, tone transceiver and guard-data-guard tone transceiver on a per SM basis.

**Attribute: sm**

**Fullname:** Switching Module

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**Attribute Description** This attribute is the key into the relation. Thus the data populated in this relation is on a per SM basis.

**Attribute: tgen_cnt**

**Fullname:** GDSF Tone Generator count

**Attribute Description** Value of this attribute provides the number of GDSF tone generator available on a per SM basis.

**Attribute: txcvr_cnt**

**Fullname:** GDSF Tone Transceiver count

**Attribute Description** The value of this attribute provides the number of GDSF tone transceiver available on a per SM basis.

**Attribute: gtxcvr_cnt**

**Fullname:** GDSF Guard-Data-Guard Tone Transceiver count

**Attribute Description** The value of this attribute provides the number of GDSF guard-data-guard tone transceiver available on a per SM basis.

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# GENSCA

## 1. Description

Individual line SCA screen list for general available.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected tuples in relation | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 100 |
| l1 length of subkey1 | 4 |
| p1 position of subkey1 | 0 |
| l2 length of subkey2 | 1 |
| p2 position of subkey2 | 16 |
| l3 length of subkey3 | 8 |
| p3 position of subkey3 | 4 |
| l4 length of subkey4 | 2 |
| p4 position of subkey4 | 17 |
| l5 length of subkey5 | 4 |
| p5 position of subkey5 | 12 |
| l6 length of subkey6 | 1 |
| p6 position of subkey6 | 19 |
| ks key store | DBNO |
| corcable | DBYES |
| permutation type | unperm |

## 3. Field Layout

```
GENSCA      relid = 1292  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     sca_idx     DMSEQIDX     (ushort: 16)  <--- key, not stored
     range       DMLSFRNG     (ushort: 4)  <--- key, not stored
     dn_cnt      DMUNS6       (ushort: 6)
     scrn_cnt    DMUNS6       (ushort: 6)
     priv_cnt    DMUNS6       (ushort: 6)
     dn1         DMBCD_BDN    (array [ 6 ] of char )
     dn2         DMBCD_BDN    (array [ 6 ] of char )
     dn3         DMBCD_BDN    (array [ 6 ] of char )
     dn4         DMBCD_BDN    (array [ 6 ] of char )
     dn5         DMBCD_BDN    (array [ 6 ] of char )
     dn6         DMBCD_BDN    (array [ 6 ] of char )
     ext_dn1     DMEXT_DN     (enum: 4)
     ext_dn2     DMEXT_DN     (enum: 4)
     ext_dn3     DMEXT_DN     (enum: 4)
     ext_dn4     DMEXT_DN     (enum: 4)
     ext_dn5     DMEXT_DN     (enum: 4)
     ext_dn6     DMEXT_DN     (enum: 4)
         User and Compacted Tuple Layout     GENSCA
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |       |                       |
  0 |            sca_idx             | range |***********************|
    |---------------+---------------+---------------+---------------|
    |           |           |       |           |   |               |
```

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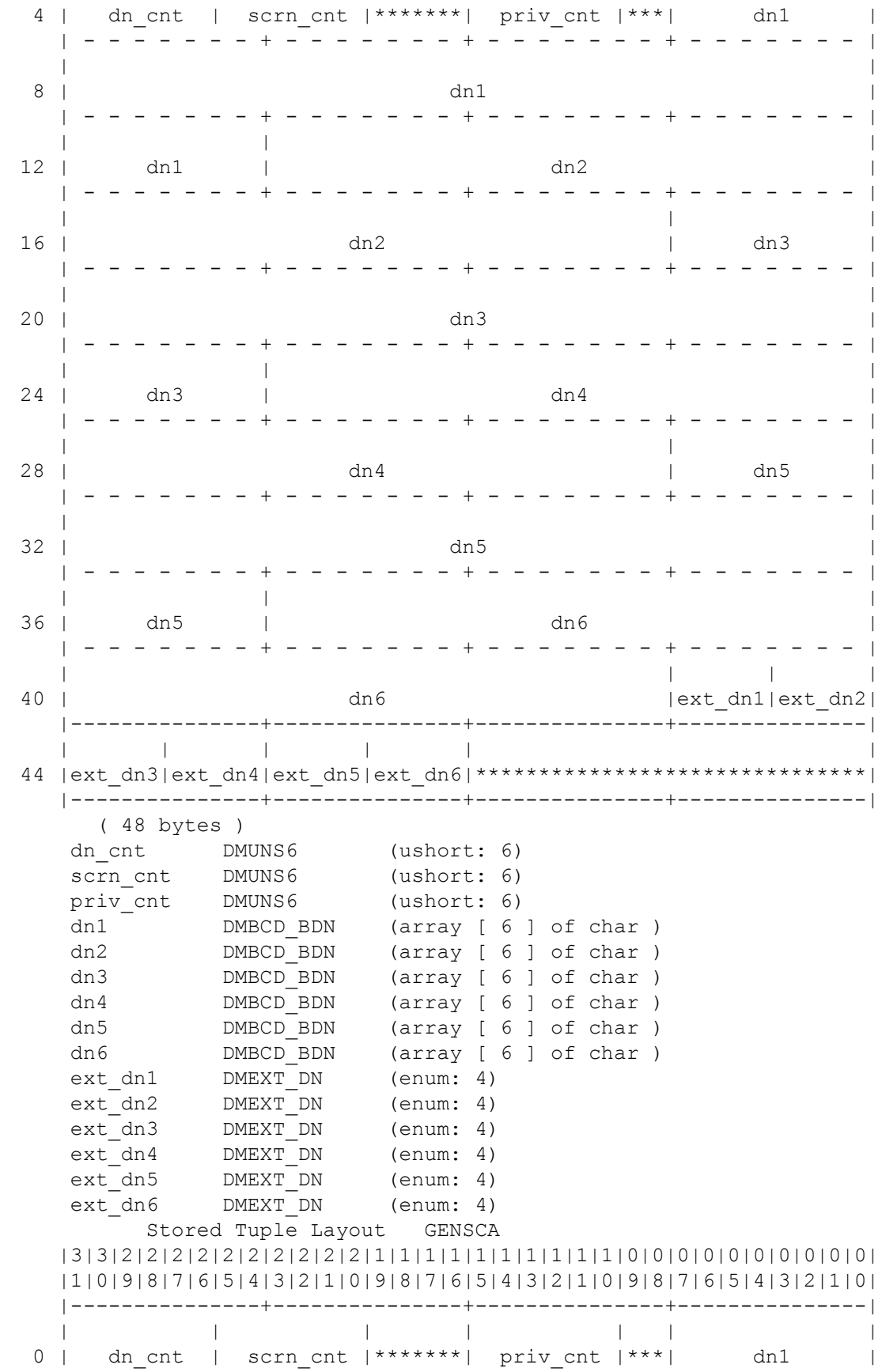


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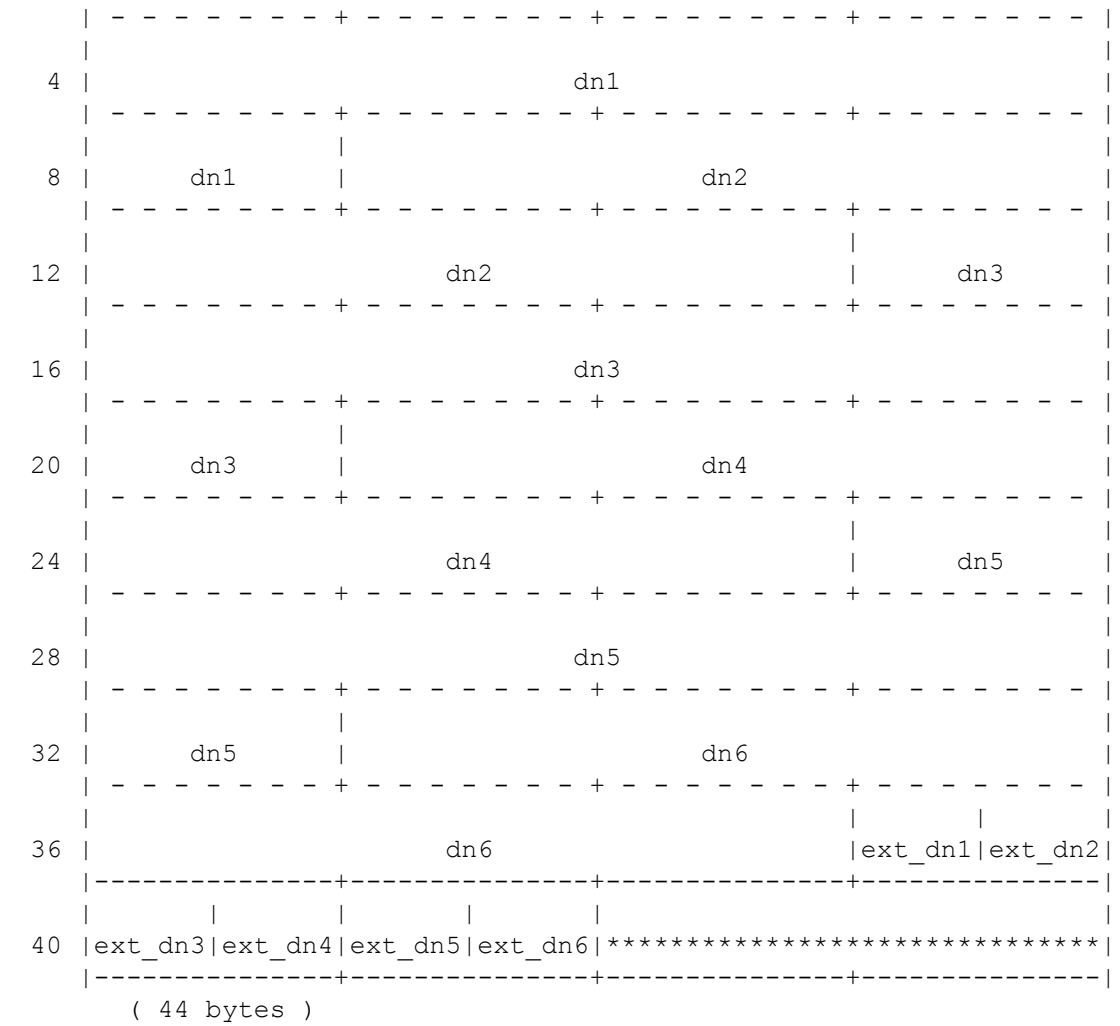


## 4. Population Rules for RLgensca

**Relation Description**
LASS selective call acceptance screen list for generally available.

GENSCA is a SCA screening list for general available users tuples of this relation will be allocated/deallocated mainly through SLE session. But RC/V can also access this relation to review, or update the list.

The maximum number of DNs in a screening list a user can have for a particular feature is defined as office parameters. (such as Glscamx for SCA and Glcarmx for CAR).

A user is not allowed to add DNs beyond the office limits. However, a special care must be given when the office reduces the maximum. This is because there might be users who have DNs more than the new maximum number.

There is no immediate action required for this reduction of the office maximum. But here are subsequent actions SLE and RC/V should take.

SLE and RC/V should not allow those users to add new entries unless they remove enough DNs so that the total number of DNs in the list is below the new maximum.

Any mechanisms of surveying the largest list in an office will not be available in the 5E6 generic.

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**Attribute: sca_idx**

**Fullname:** Selective Call Acceptance Index

**Attribute Description** This is a logical key. Since the RLsca_ltm relation serves as a head cell of the SCA screening list tuples, RLgensca, there must be a corresponding RLsca_ltm with a matching sca_idx.
RLsca_ltm.gen_avail must be DBYES.

**Attribute: range**

**Fullname:** Range

**Attribute Description** This field is used to read subsequent SCA screen lists tuples. The range of the first tuple is equal to 0.

**Attribute: dn_cnt**

**Fullname:** DN count including the extensions

**Attribute Description** If an extension is requested to be entered (through SLE session only), the corresponding DN and the extension are stored in two consecutive dn-slots for voice-back purpose. (Note: These two numbers can be stored in two tuples: DN in the last dn-slot in a tuple and extension in the first dn_slot of the following tuple.)

The dn_cnt of the first tuple (whose range is 0), is equal to the total number of occupied slots in the screening list. (The actual number of DNs is scrn_cnt.) For the subsequent tuples (whose ranges are from 1 to 10), this field is should be set to 0.

**Attribute: scrn_cnt**

**Fullname:** Number of actual DNs for screening

**Attribute Description** For the first tuple (whose range is 0), this field indicates the total number of DNs stored for the screening excluding the number of extensions. For the subsequent tuples, this field should be set to zero.

**Attribute: priv_cnt**

**Fullname:** Number of private DNs for screening

**Attribute Description** For the first tuple (whose range is 0), this field indicates the total number of private DNs stored for the screening excluding the number of extensions. For the subsequent tuples, this field should be set to zero.

**Attribute: dn1**

**Fullname:** First DN stored

**Attribute Description** Each element of this array consists of two BCD digits of the first DN. Digit count is stored in the last byte. Example: A DN, 312-979-1234 is stored as

```
dn1[0] = 0x31
dn1[1] = 0x29
dn1[2] = 0x79
dn1[3] = 0x12
dn1[4] = 0x34
```

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```
   dn1[5] = 0x0a (digit count)
```

The first tuple (range = 0) can not have an extension in the first dn slot.

**Attribute: dn2**

**Fullname:** The second DN stored

**Attribute Description** See dn1.

**Attribute: dn3**

**Fullname:** The third DN stored

**Attribute Description** See dn1.

**Attribute: dn4**

**Fullname:** The fourth DN stored

**Attribute Description** See dn1.

**Attribute: dn5**

**Fullname:** The fifth DN stored

**Attribute Description** See dn1.

**Attribute: dn6**

**Fullname:** The sixth DN stored

**Attribute Description** See dn1.

**Attribute: ext_dn1**

**Fullname:** dn1 status flag

**Attribute Description** This field is used to indicate one of the following cases:

```
DN_NULL,  for a Null entry
DN_SEVEN, for a DN entered as a 7-digit DN by user
DN_TEN,   for a DN entered as a 10-digit DN by user
DN_PRIV,  for a private DN
DN_EXT,   Currently is not used by SLE.
DN_NUNXT, for a DN, converted from an extension entered by user.
NUEXT,    for an extension entered by the user. The corresponding DN
          is stored in the previous dn field marked as DN_NUNXT. The
          extension is stored for voice-back purpose during the SLE
          session.
```

Note: ext_dn = NUEXT is not allowed for the first dn (dn1[]) of the first tuple (range = 0)

**Attribute: ext_dn2**

**Fullname:** dn2 status flag

**Attribute Description** See the description of ext_dn1.

**Attribute: ext_dn3**

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**Fullname:** dn3 status flag

**Attribute Description** See the description of ext_dn1.

**Attribute: ext_dn4**

**Fullname:** dn4 status flag

**Attribute Description** See the description of ext_dn1.

**Attribute: ext_dn5**

**Fullname:** dn5 status flag

**Attribute Description** See the description of ext_dn1.

**Attribute: ext_dn6**

**Fullname:** dn6 status flag

**Attribute Description** See the description of ext_dn1.

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# GENSCF

## 1. Description

Individual line SCF screen list for general available.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected tuples in relation | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 100 |
| l1 length of subkey1 | 4 |
| p1 position of subkey1 | 0 |
| l2 length of subkey2 | 1 |
| p2 position of subkey2 | 16 |
| l3 length of subkey3 | 8 |
| p3 position of subkey3 | 4 |
| l4 length of subkey4 | 2 |
| p4 position of subkey4 | 17 |
| l5 length of subkey5 | 4 |
| p5 position of subkey5 | 12 |
| l6 length of subkey6 | 1 |
| p6 position of subkey6 | 19 |
| ks key store | DBNO |
| corcable | DBYES |
| permutation type | unperm |

## 3. Field Layout

```
GENSCF      relid = 1293  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     scf_idx     DMSEQIDX     (ushort: 16)  <--- key, not stored
     range       DMLSFRNG     (ushort: 4)  <--- key, not stored
     dn_cnt      DMUNS6       (ushort: 6)
     scrn_cnt    DMUNS6       (ushort: 6)
     priv_cnt    DMUNS6       (ushort: 6)
     dn1         DMBCD_BDN    (array [ 6 ] of char )
     dn2         DMBCD_BDN    (array [ 6 ] of char )
     dn3         DMBCD_BDN    (array [ 6 ] of char )
     dn4         DMBCD_BDN    (array [ 6 ] of char )
     dn5         DMBCD_BDN    (array [ 6 ] of char )
     dn6         DMBCD_BDN    (array [ 6 ] of char )
     ext_dn1     DMEXT_DN     (enum: 4)
     ext_dn2     DMEXT_DN     (enum: 4)
     ext_dn3     DMEXT_DN     (enum: 4)
     ext_dn4     DMEXT_DN     (enum: 4)
     ext_dn5     DMEXT_DN     (enum: 4)
     ext_dn6     DMEXT_DN     (enum: 4)
         User and Compacted Tuple Layout     GENSCF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |       |                       |
  0 |            scf_idx             | range |***********************|
    |---------------+---------------+---------------+---------------|
    |           |           |       |           |   |               |
```

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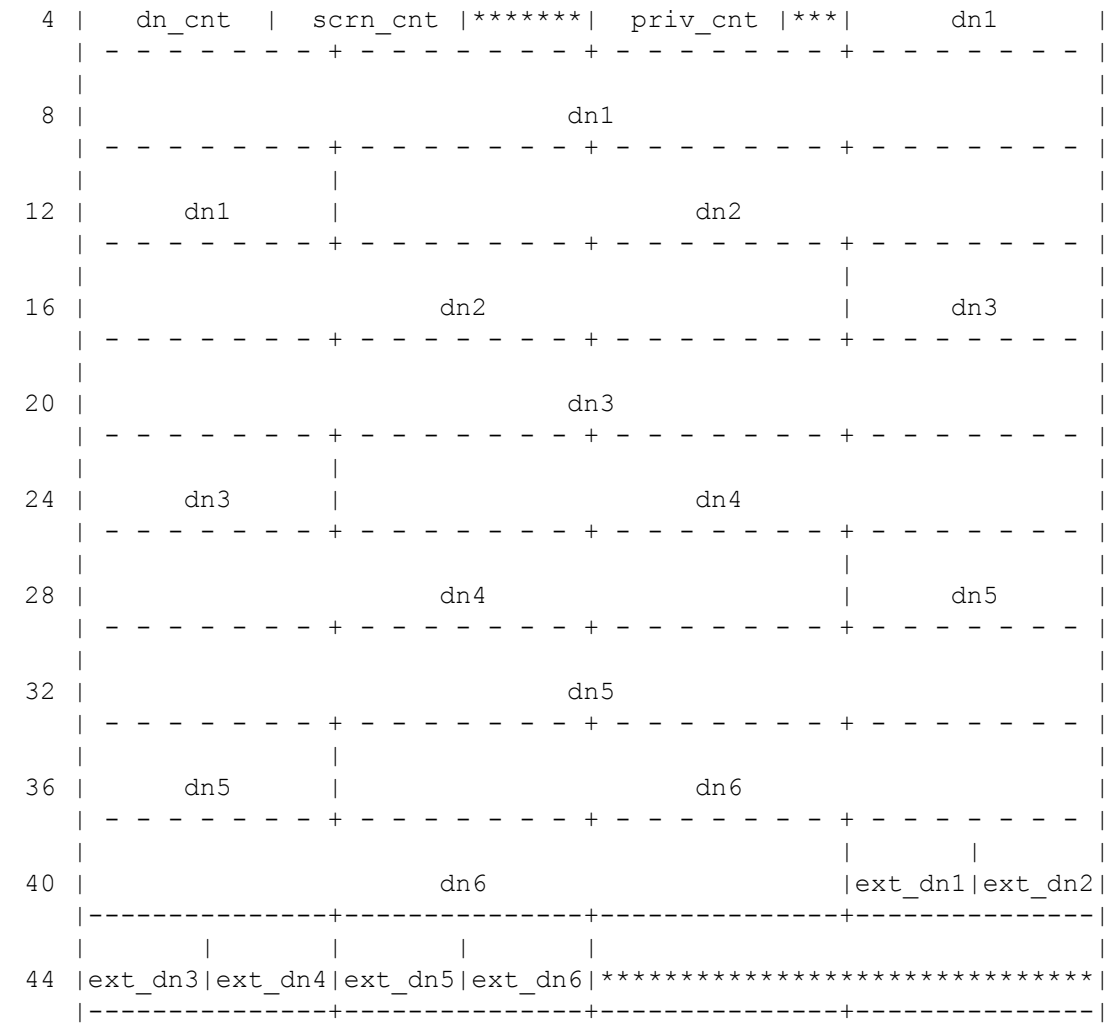
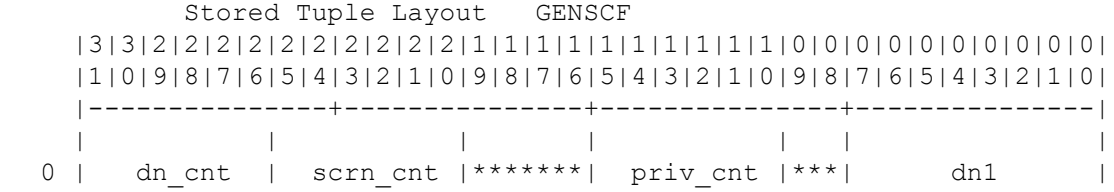



( 48 bytes )

| | | |
|---|---|---|
| dn_cnt | DMUNS6 | (ushort: 6) |
| scrn_cnt | DMUNS6 | (ushort: 6) |
| priv_cnt | DMUNS6 | (ushort: 6) |
| dn1 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn2 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn3 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn4 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn5 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn6 | DMBCD_BDN | (array [ 6 ] of char ) |
| ext_dn1 | DMEXT_DN | (enum: 4) |
| ext_dn2 | DMEXT_DN | (enum: 4) |
| ext_dn3 | DMEXT_DN | (enum: 4) |
| ext_dn4 | DMEXT_DN | (enum: 4) |
| ext_dn5 | DMEXT_DN | (enum: 4) |
| ext_dn6 | DMEXT_DN | (enum: 4) |

Stored Tuple Layout GENSCF

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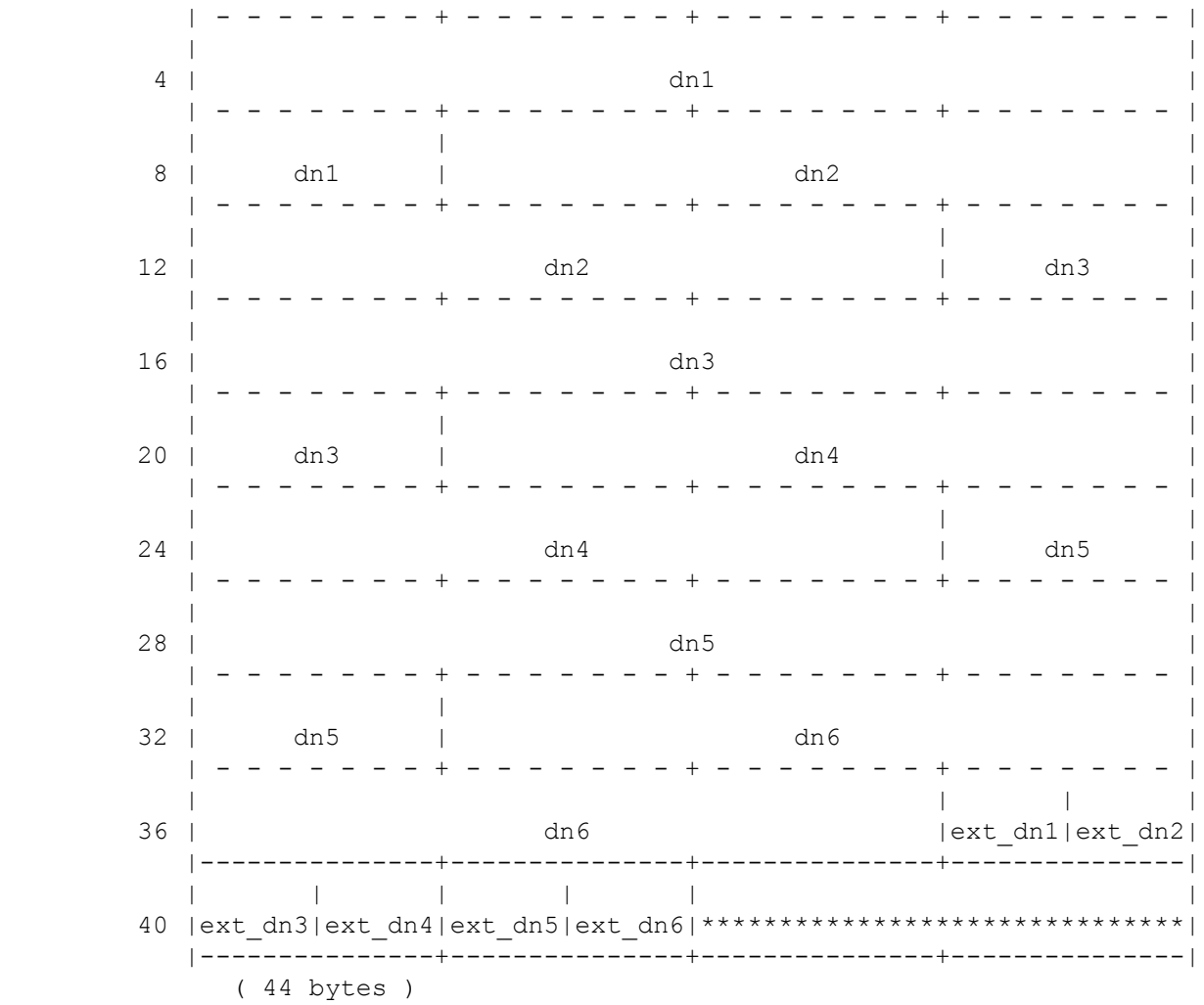


## 4. Population Rules for RLgenscf

**Relation Description**
LASS selective call forwarding (SCF) screen

List general available users. GENSCF is a SCF screening list for general available users Tuples of this relation will be allocated/deallocated mainly through SLE session. But RC/V can also access this relation to review, or update the list.

The maximum number of DNs in a screening list a user can have for a particular feature is defined as office parameters. (such as Glscfmx)

A user is not allowed to add DNs beyond the office limits. However, a special care must be given when the office reduces the maximum. This is because there might be users who have DNs more than the new maximum number.

There is no immediate action required for this reduction of the office maximum. But here are subsequent actions SLE and RC/V should take.

SLE and RC/V should not allow those users to add new entries unless they remove enough DNs so that the total number of DNs in the list is below the new maximum.

Any mechanisms of surveying the largest list in an office will not be available in the 5E6 generic.

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**Attribute: scf_idx**

**Fullname:** Selective Call Forwarding Index

**Attribute Description** This is a logical key. Since the RLscf_ltm relation serves as a head cell of the SCF screening list tuples, RLgenscf, there must be a corresponding RLscf_ltm with a matching scf_idx. RLscf_ltm.gen_avail must be DBYES.

**Attribute: range**

**Fullname:** Range

**Attribute Description** This field is used to read subsequent SCF screen lists tuples. The range of the first tuple is equal to 0.

**Attribute: dn_cnt**

**Fullname:** DN count including the extensions

**Attribute Description** If an extension is requested to be entered (through SLE session only), the corresponding DN and the extension are stored in two consecutive dn-slots for voice-back purpose. (Note: These two numbers can be stored in two tuples: DN in the last dn-slot in a tuple and extension in the first dn_slot of the following tuple.)
The dn_cnt of the first tuple (whose range is 0), is equal to the total number of occupied slots in the screening list. (The actual number of DNs is scrn_cnt.) For the subsequent tuples (whose ranges are from 1 to 10), this field should be set to zero.

**Attribute: scrn_cnt**

**Fullname:** Number of actual DNs for screening

**Attribute Description** For the first tuple (whose range is 0), this field indicates the total number of DNs stored for the screening excluding the number of extensions. For the subsequent tuples, this field should be set to zero.

**Attribute: priv_cnt**

**Fullname:** Number of private DNs for screening

**Attribute Description** For the first tuple (whose range is 0), this field indicates the total number of private DNs stored for the screening excluding the number of extensions. For the subsequent tuples, this field should be set to zero.

**Attribute: dn1**

**Fullname:** First DN stored

**Attribute Description** Each element of this array consists of two BCD digits of the first DN. Digit count is stored in the last byte. Example: A DN, 312-979-1234 is stored as

```
dn1[0] = 0x31
dn1[1] = 0x29
dn1[2] = 0x79
dn1[3] = 0x12
dn1[4] = 0x34
dn1[5] = 0x0a (digit count)
```

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The first tuple (range = 0) can not have an extension in the first dn slot.

**Attribute: dn2**

**Fullname:** The second DN stored

**Attribute Description** See dn1.

**Attribute: dn3**

**Fullname:** The third DN stored

**Attribute Description** See dn1.

**Attribute: dn4**

**Fullname:** The fourth DN stored

**Attribute Description** See dn1.

**Attribute: dn5**

**Fullname:** The fifth DN stored

**Attribute Description** See dn1.

**Attribute: dn6**

**Fullname:** The sixth DN stored

**Attribute Description** See dn1.

**Attribute: ext_dn1**

**Fullname:** dn1 status flag

**Attribute Description** This field is used to indicate one of the following cases:

```
DN_NULL,  for a Null entry
DN_SEVEN, for a DN entered as a 7-digit DN by user
DN_TEN,   for a DN entered as a 10-digit DN by user
DN_PRIV,  for a private DN
DN_EXT,   currently is not used by SLE
DN_NUNXT, for a DN, converted from an extension entered by user.
NUEXT,    for an extension entered by the user. The corresponding
          DN is stored in the previous dn field marked as DN_NUNXT.
          The extension is stored for voice-back purpose during the
          SLE session.
Note: ext_dn = NUEXT is not allowed for the first dn
      (dn1[]) of the first tuple (range = 0)
```

**Attribute: ext_dn2**

**Fullname:** dn2 status flag

**Attribute Description** See the description of ext_dn1.

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**Attribute: ext_dn3**

**Fullname:** dn3 status flag

**Attribute Description** See the description of ext_dn1.

**Attribute: ext_dn4**

**Fullname:** dn4 status flag

**Attribute Description** See the description of ext_dn1.

**Attribute: ext_dn5**

**Fullname:** dn5 status flag

**Attribute Description** See the description of ext_dn1.

**Attribute: ext_dn6**

**Fullname:** dn6 status flag

**Attribute Description** See the description of ext_dn1.

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# GENSCR

## 1. Description

Individual line SCR screen list for general available.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected tuples in relation | 3 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 100 |
| l1 length of subkey1 | 4 |
| p1 position of subkey1 | 0 |
| l2 length of subkey2 | 1 |
| p2 position of subkey2 | 16 |
| l3 length of subkey3 | 8 |
| p3 position of subkey3 | 4 |
| l4 length of subkey4 | 2 |
| p4 position of subkey4 | 17 |
| l5 length of subkey5 | 4 |
| p5 position of subkey5 | 12 |
| l6 length of subkey6 | 1 |
| p6 position of subkey6 | 19 |
| ks key store | DBNO |
| corcable | DBYES |
| permutation type | unperm |

## 3. Field Layout

```
GENSCR      relid = 1294  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     scr_idx     DMSEQIDX     (ushort: 16)  <--- key, not stored
     range       DMLSFRNG     (ushort: 4)  <--- key, not stored
     dn_cnt      DMUNS6       (ushort: 6)
     scrn_cnt    DMUNS6       (ushort: 6)
     priv_cnt    DMUNS6       (ushort: 6)
     dn1         DMBCD_BDN    (array [ 6 ] of char )
     dn2         DMBCD_BDN    (array [ 6 ] of char )
     dn3         DMBCD_BDN    (array [ 6 ] of char )
     dn4         DMBCD_BDN    (array [ 6 ] of char )
     dn5         DMBCD_BDN    (array [ 6 ] of char )
     dn6         DMBCD_BDN    (array [ 6 ] of char )
     ext_dn1     DMEXT_DN     (enum: 4)
     ext_dn2     DMEXT_DN     (enum: 4)
     ext_dn3     DMEXT_DN     (enum: 4)
     ext_dn4     DMEXT_DN     (enum: 4)
     ext_dn5     DMEXT_DN     (enum: 4)
     ext_dn6     DMEXT_DN     (enum: 4)
         User and Compacted Tuple Layout     GENSCR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |       |                       |
  0 |            scr_idx            | range |***********************|
    |---------------+---------------+---------------+---------------|
    |           |           |       |           |   |               |
```

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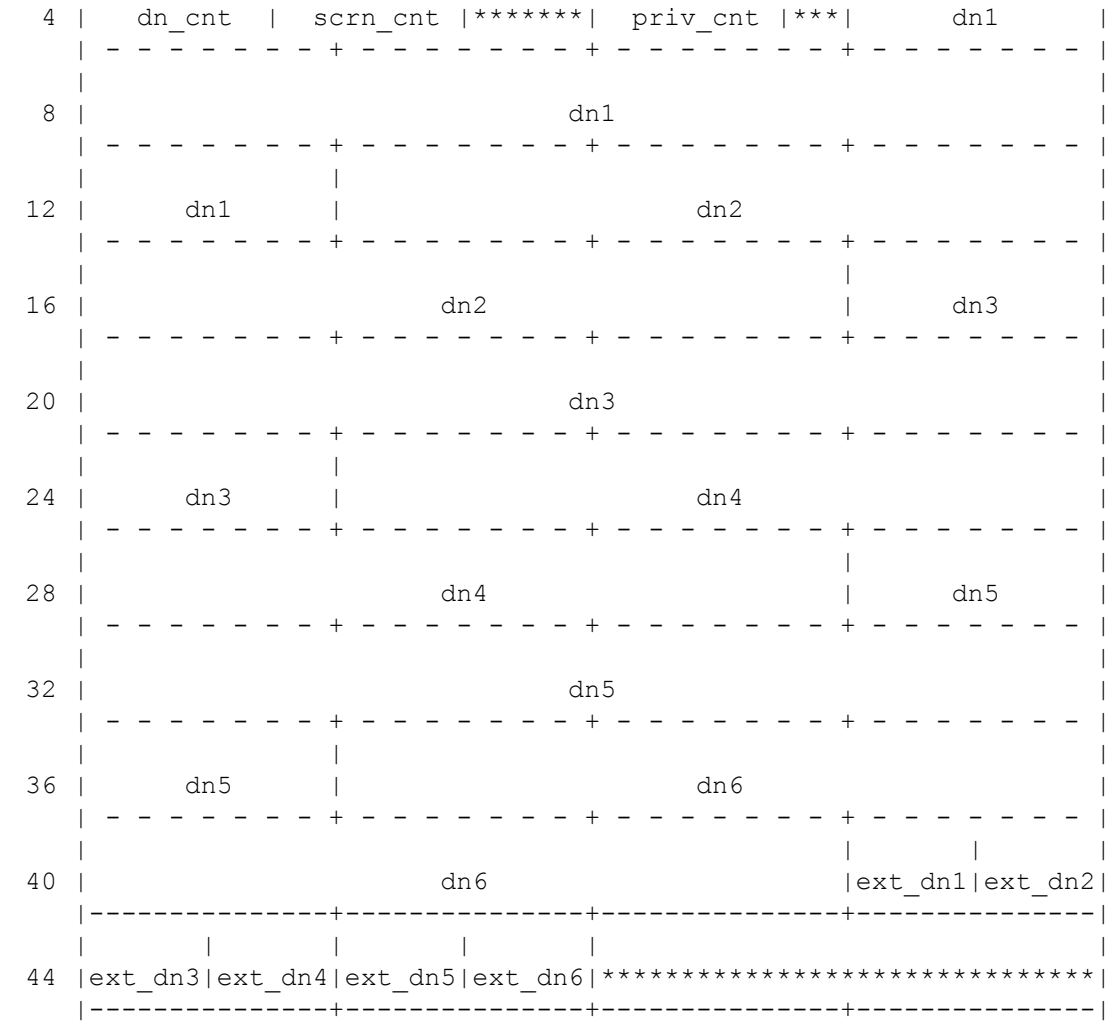
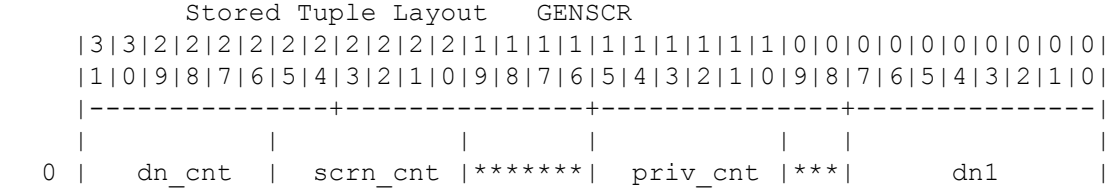



( 48 bytes )

| | | |
|---|---|---|
| dn_cnt | DMUNS6 | (ushort: 6) |
| scrn_cnt | DMUNS6 | (ushort: 6) |
| priv_cnt | DMUNS6 | (ushort: 6) |
| dn1 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn2 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn3 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn4 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn5 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn6 | DMBCD_BDN | (array [ 6 ] of char ) |
| ext_dn1 | DMEXT_DN | (enum: 4) |
| ext_dn2 | DMEXT_DN | (enum: 4) |
| ext_dn3 | DMEXT_DN | (enum: 4) |
| ext_dn4 | DMEXT_DN | (enum: 4) |
| ext_dn5 | DMEXT_DN | (enum: 4) |
| ext_dn6 | DMEXT_DN | (enum: 4) |

Stored Tuple Layout GENSCR

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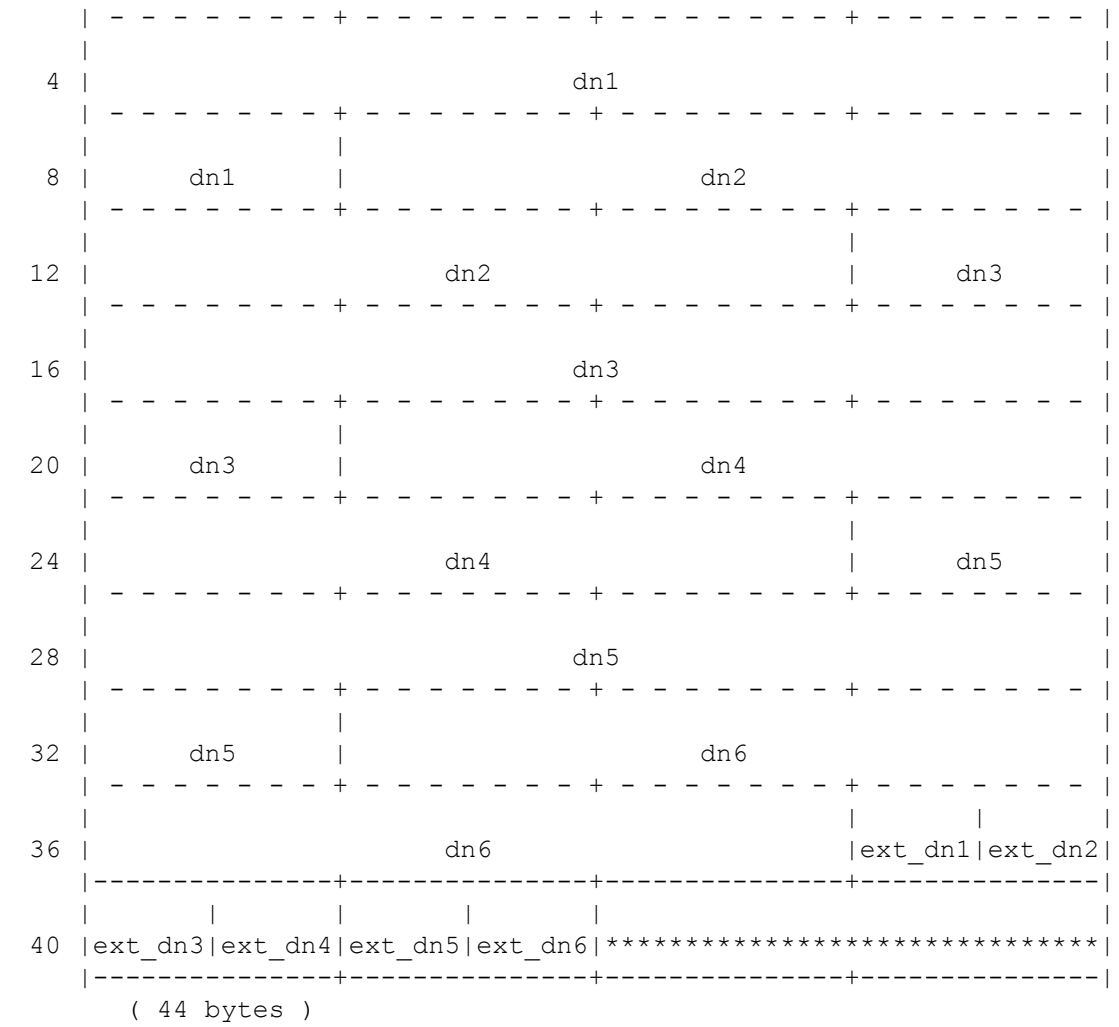


## 4. Population Rules for RLgenscr

**Relation Description**
LASS selective call rejection (SCR) screen list general available users.

GENSCR is a SCR screening list for general available users. Tuples of this relation will be allocated/deallocated mainly through SLE session. But RC/V can also access this relation to review, or update the list.

The maximum number of DNs in a screening list a user can have for a particular feature is defined as office parameters. (such as Glscrmx)

A user is not allowed to add DNs beyond the office limits. However, a special care must be given when the office reduces the maximum. This is because there might be users who have DNs more than the new maximum number.

There is no immediate action required for this reduction of the office maximum. But here are subsequent actions SLE and RC/V should take.

SLE and RC/V should not allow those users to add new entries unless they remove enough DNs so that the total number of DNs in the list is below the new maximum.

Any mechanisms of surveying the largest list in an office will not be available in the 5E6 generic.

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**Attribute: scr_idx**

**Fullname:** Selective Call Rejection Index

**Attribute Description** This is a logical key. Since the RLscr_ltm relation serves as a head cell of the SCR screening list tuples, RLgenscr, there must be a corresponding RLscr_ltm with a matching scr_idx. RLscr_ltm.gen_avail must be DBYES.

**Attribute: range**

**Fullname:** Range

**Attribute Description** This field is used to read subsequent SCR screen lists tuples. The range of the first tuple is equal to 0.

**Attribute: dn_cnt**

**Fullname:** DN count including the extensions

**Attribute Description** If an extension is requested to be entered (through SLE session only), the corresponding DN and the extension are stored in two consecutive dn-slots for voice-back purpose. (Note: These two numbers can be stored in two tuples: DN in the last dn-slot in a tuple and extension in the first dn_slot of the following tuple.)
The dn_cnt of the first tuple (whose range is 0), is equal to the total number of occupied slots in the screening list. (The actual number of DNs is scrn_cnt.) For the subsequent tuples (whose ranges are from 1 to 10), this field should be set to zero.

**Attribute: scrn_cnt**

**Fullname:** Number of actual DNs for screening

**Attribute Description** For the first tuple (whose range is 0), this field indicates the total number of DNs stored for the screening excluding the number of extensions. For the subsequent tuples, this field should be set to zero.

**Attribute: priv_cnt**

**Fullname:** Number of private DNs for screening

**Attribute Description** For the first tuple (whose range is 0), this field indicates the total number of private DNs stored for the screening excluding the number of extensions. For the subsequent tuples, this field should be set to zero.

**Attribute: dn1**

**Fullname:** First DN stored

**Attribute Description** Each element of this array consists of two BCD digits of the first DN. Digit count is stored in the last byte. Example: A DN, 312-979-1234 is stored as

```
dn1[0] = 0x31
dn1[1] = 0x29
dn1[2] = 0x79
dn1[3] = 0x12
dn1[4] = 0x34
dn1[5] = 0x0a (digit count)
```

The first tuple (range = 0) can not have an extension in the first dn slot.

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**Attribute: dn2**

**Fullname:** The second DN stored

**Attribute Description** See dn1.

**Attribute: dn3**

**Fullname:** The third DN stored

**Attribute Description** See dn1.

**Attribute: dn4**

**Fullname:** The fourth DN stored

**Attribute Description** See dn1.

**Attribute: dn5**

**Fullname:** The fifth DN stored

**Attribute Description** See dn1.

**Attribute: dn6**

**Fullname:** The sixth DN stored

**Attribute Description** See dn1.

**Attribute: ext_dn1**

**Fullname:** dn1 status flag

**Attribute Description** This field is used to indicate one of the following cases:

```
DN_NULL,  for a Null entry
DN_SEVEN, for a DN entered as a 7-digit DN by user
DN_TEN,   for a DN entered as a 10-digit DN by user
DN_PRIV,  for a private DN
DN_EXT,   currently is not used by SLE
DN_NUNXT, for a DN, converted from an extension entered by user.
NUEXT,    for an extension entered by the user. The corresponding
          DN is stored in the previous dn field marked as DN_NUNXT.
          The extension is stored for voice-back purpose during the
          SLE session.
Note: ext_dn = NUEXT is not allowed for the first dn
      (dn1[]) of the first tuple (range = 0)
```

**Attribute: ext_dn2**

**Fullname:** dn2 status flag

**Attribute Description** See the description of ext_dn1.

**Attribute: ext_dn3**

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**Fullname:** dn3 status flag

**Attribute Description** See the description of ext_dn1.

**Attribute: ext_dn4**

**Fullname:** dn4 status flag

**Attribute Description** See the description of ext_dn1.

**Attribute: ext_dn5**

**Fullname:** dn5 status flag

**Attribute Description** See the description of ext_dn1.

**Attribute: ext_dn6**

**Fullname:** dn6 status flag

**Attribute Description** See the description of ext_dn1.

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# GENSDA

## 1. Description

Individual line SDA screen list for general available.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected tuples in relation | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 100 |
| l1 length of subkey1 | 4 |
| p1 position of subkey1 | 0 |
| l2 length of subkey2 | 1 |
| p2 position of subkey2 | 16 |
| l3 length of subkey3 | 8 |
| p3 position of subkey3 | 4 |
| l4 length of subkey4 | 2 |
| p4 position of subkey4 | 17 |
| l5 length of subkey5 | 4 |
| p5 position of subkey5 | 12 |
| l6 length of subkey6 | 1 |
| p6 position of subkey6 | 19 |
| ks key store | DBNO |
| corcable | DBYES |
| permutation type | unperm |

## 3. Field Layout

```
GENSDA      relid = 1295  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     sda_idx     DMSEQIDX     (ushort: 16)  <--- key, not stored
     range       DMLSFRNG     (ushort: 4)  <--- key, not stored
     dn_cnt      DMUNS6       (ushort: 6)
     scrn_cnt    DMUNS6       (ushort: 6)
     priv_cnt    DMUNS6       (ushort: 6)
     dn1         DMBCD_BDN    (array [ 6 ] of char )
     dn2         DMBCD_BDN    (array [ 6 ] of char )
     dn3         DMBCD_BDN    (array [ 6 ] of char )
     dn4         DMBCD_BDN    (array [ 6 ] of char )
     dn5         DMBCD_BDN    (array [ 6 ] of char )
     dn6         DMBCD_BDN    (array [ 6 ] of char )
     ext_dn1     DMEXT_DN     (enum: 4)
     ext_dn2     DMEXT_DN     (enum: 4)
     ext_dn3     DMEXT_DN     (enum: 4)
     ext_dn4     DMEXT_DN     (enum: 4)
     ext_dn5     DMEXT_DN     (enum: 4)
     ext_dn6     DMEXT_DN     (enum: 4)
         User and Compacted Tuple Layout     GENSDA
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |       |                       |
  0 |            sda_idx             | range |***********************|
    |---------------+---------------+---------------+---------------|
    |           |           |       |           |   |               |
```

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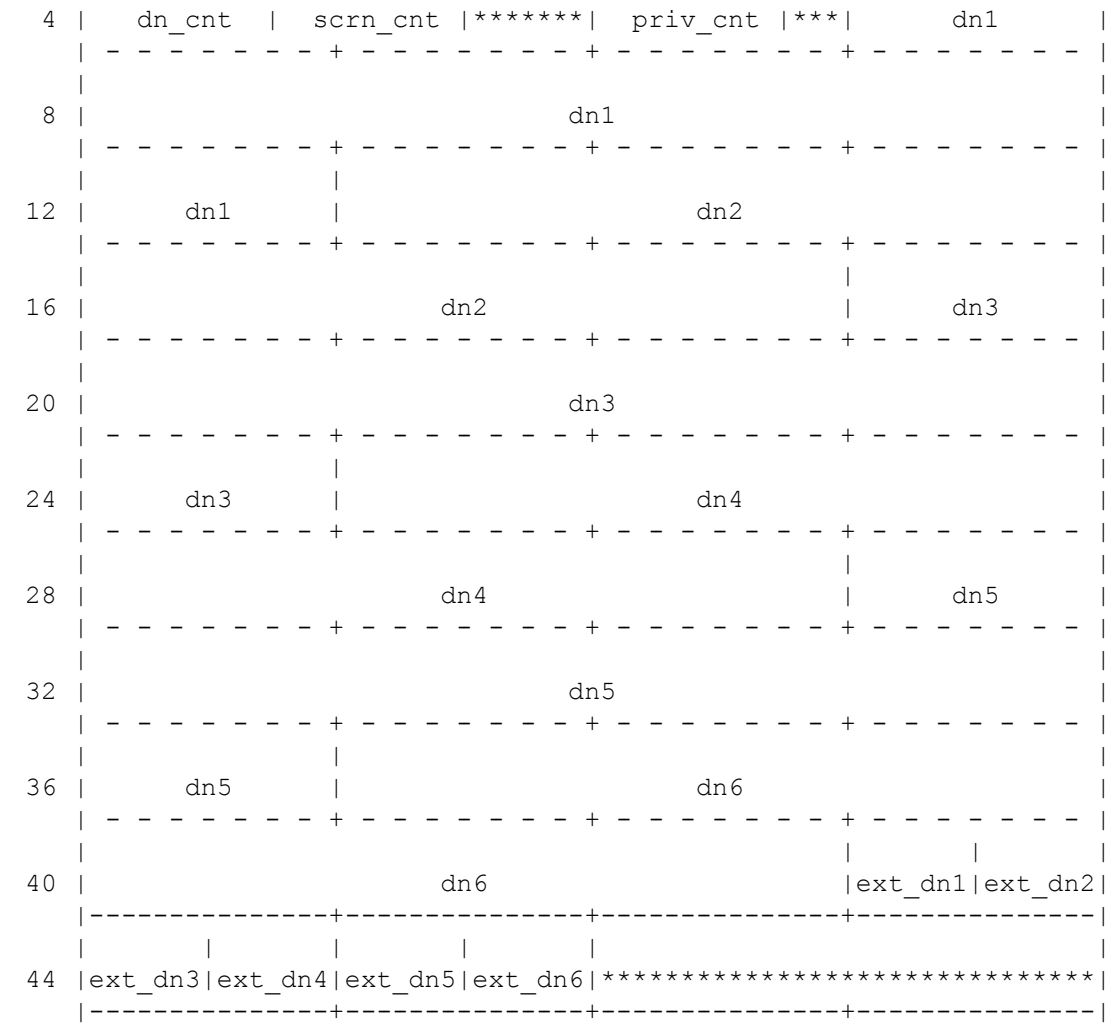
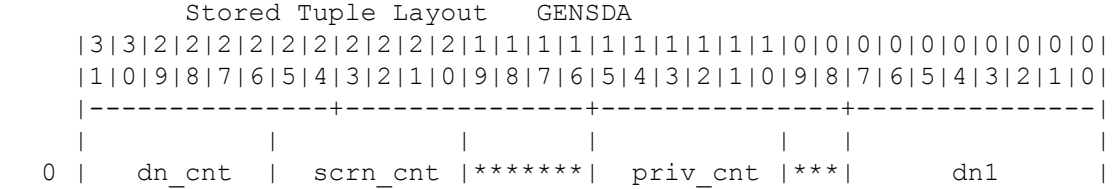



( 48 bytes )

| | | |
|---|---|---|
| dn_cnt | DMUNS6 | (ushort: 6) |
| scrn_cnt | DMUNS6 | (ushort: 6) |
| priv_cnt | DMUNS6 | (ushort: 6) |
| dn1 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn2 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn3 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn4 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn5 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn6 | DMBCD_BDN | (array [ 6 ] of char ) |
| ext_dn1 | DMEXT_DN | (enum: 4) |
| ext_dn2 | DMEXT_DN | (enum: 4) |
| ext_dn3 | DMEXT_DN | (enum: 4) |
| ext_dn4 | DMEXT_DN | (enum: 4) |
| ext_dn5 | DMEXT_DN | (enum: 4) |
| ext_dn6 | DMEXT_DN | (enum: 4) |

Stored Tuple Layout GENSDA

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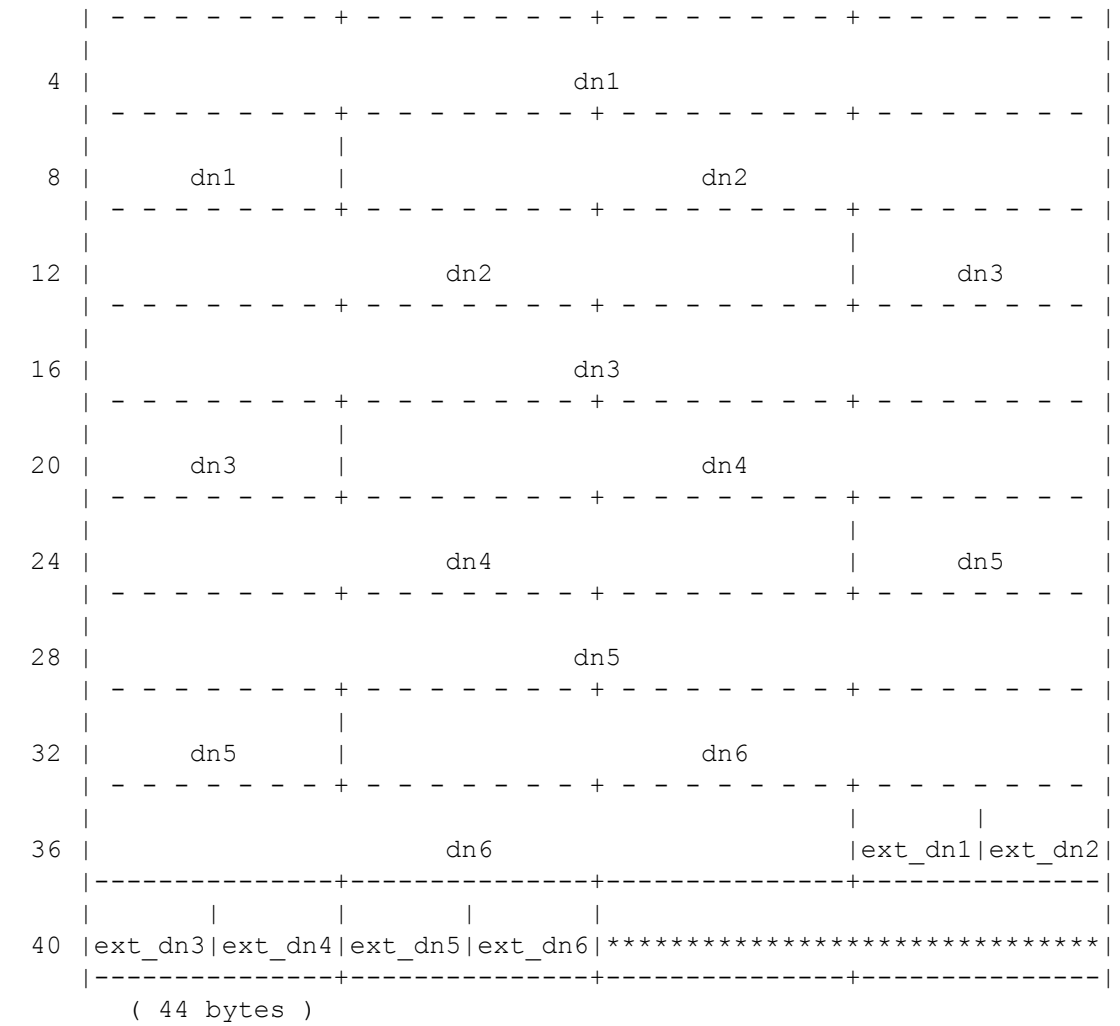


## 4. Population Rules for RLgensda

**Relation Description**
LASS selective distinctive alert (SDA) screen list general available users.

GENSDA is a SDA screening list for general available users Tuples of this relation will be allocated/deallocated mainly through SLE session. But RC/V can also access this relation to review, or update the list.

The maximum number of DNs in a screening list a user can have for a particular feature is defined as office parameters. (such as Glsdamx)

A user is not allowed to add DNs beyond the office limits. However, a special care must be given when the office reduces the maximum. This is because there might be users who have DNs more than the new maximum number.

There is no immediate action required for this reduction of the office maximum. But here are subsequent actions SLE and RC/V should take.

SLE and RC/V should not allow those users to add new entries unless they remove enough DNs so that the total number of DNs in the list is below the new maximum.

Any mechanisms of surveying the largest list in an office will not be available in the 5E6 generic.

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**Attribute: sda_idx**

**Fullname:** Selective Distinctive Alert Index

**Attribute Description** This is a logical key. Since the RLsda_ltm relation serves as a head cell of the SDA screening list tuples, RLgensda, there must be a corresponding RLsda_ltm with a matching sda_idx. RLsda_ltm.gen_avail must be DBYES.

**Attribute: range**

**Fullname:** Range

**Attribute Description** This field is used to read subsequent SDA screen lists tuples. The range of the first tuple is equal to 0.

**Attribute: dn_cnt**

**Fullname:** DN count including the extensions

**Attribute Description** If an extension is requested to be entered (through SLE session only), the corresponding DN and the extension are stored in two consecutive dn-slots for voice-back purpose. (Note: These two numbers can be stored in two tuples: DN in the last dn-slot in a tuple and extension in the first dn_slot of the following tuple.)
The dn_cnt of the first tuple (whose range is 0), is equal to the total number of occupied slots in the screening list. (The actual number of DNs is scrn_cnt.) For the subsequent tuples (whose ranges are from 1 to 10), this field should be set to zero

**Attribute: scrn_cnt**

**Fullname:** Number of actual DNs for screening

**Attribute Description** For the first tuple (whose range is 0), this field indicates the total number of DNs stored for the screening excluding the number of extensions. For the subsequent tuples, this field should be set to zero.

**Attribute: priv_cnt**

**Fullname:** Number of private DNs for screening

**Attribute Description** For the first tuple (whose range is 0), this field indicates the total number of private DNs stored for the screening excluding the number of extensions. For the subsequent tuples, this field should be set to zero.

**Attribute: dn1**

**Fullname:** First DN stored

**Attribute Description** Each element of this array consists of two BCD digits of the first DN. Digit count is stored in the last byte. Example: A DN, 312-979-1234 is stored as

```
dn1[0] = 0x31
dn1[1] = 0x29
dn1[2] = 0x79
dn1[3] = 0x12
dn1[4] = 0x34
dn1[5] = 0x0a (digit count)
```

The first tuple (range = 0) can not have an extension in the first dn slot.

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**Attribute: dn2**

**Fullname:** The second DN stored

**Attribute Description** See dn1.

**Attribute: dn3**

**Fullname:** The third DN stored

**Attribute Description** See dn1.

**Attribute: dn4**

**Fullname:** The fourth DN stored

**Attribute Description** See dn1.

**Attribute: dn5**

**Fullname:** The fifth DN stored

**Attribute Description** See dn1.

**Attribute: dn6**

**Fullname:** The sixth DN stored

**Attribute Description** See dn1.

**Attribute: ext_dn1**

**Fullname:** dn1 status flag**Attribute Description** This field is used to indicate one of the following cases:

```
DN_NULL,  for a Null entry
DN_SEVEN, for a DN entered as a 7-digit DN by user
DN_TEN,   for a DN entered as a 10-digit DN by user
DN_PRIV,  for a private DN
DN_EXT,   currently is not used by SLE
DN_NUNXT, for a DN, converted from an extension entered by user.
NUEXT,    for an extension entered by the user. The corresponding
          DN is stored in the previous dn field marked as DN_NUNXT.
          The extension is stored for voice-back purpose during the
          SLE session.
Note: ext_dn = NUEXT is not allowed for the first dn
      (dn1[]) of the first tuple (range = 0)
```

**Attribute: ext_dn2**

**Fullname:** dn2 status flag

**Attribute Description** See the description of ext_dn1.

**Attribute: ext_dn3**

**Fullname:** dn3 status flag

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**Attribute Description** See the description of ext_dn1.

**Attribute: ext_dn4**

**Fullname:** dn4 status flag

**Attribute Description** See the description of ext_dn1.

**Attribute: ext_dn5**

**Fullname:** dn5 status flag

**Attribute Description** See the description of ext_dn1.

**Attribute: ext_dn6**

**Fullname:** dn6 status flag

**Attribute Description** See the description of ext_dn1.

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# GETCHT

## 1. Description

Get charge table name.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 384 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| foldtype | DBGC31 |

## 3. Field Layout

```
GETCHT      relid = 148   DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     time_b      DMSHORT      (short)  <--- key
     d_o_week    DMCHR        (char)  <--- key
 (a) table_name  DMCHGRATE    (enum: 2)
         User, Compacted and Stored Tuple Layout GETCHT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |   |           |
  0 |             time_b            |    d_o_week   | a |***********|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLgetcht

**Relation Description**
Get charge table name. Based on day and time of day, get the appropriate rate for charging call: day, evening, or night.

**Attribute: d_o_week**

**Fullname:** Day of the week

**Attribute Description** Use numbers 0 through 7, where 0 equals Sunday and 7 equals a holiday.

**Attribute: time_b**

**Fullname:** Time block

**Attribute Description** Indicates half-hour time block intervals. The range is 0 through 47, where 0 equals midnight (24:00) and 47 equals 11:30.

**Attribute: table_name**

**Fullname:** Charge Table name

**Attribute Description** For day rate charges, this attribute is set to FC_DAY. For evening charges,

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it is set to FC_EVE. For night charges, it is set to FCNIGHT.

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# GPDB

## 1. Description

Grid priorities data block.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 24 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
GPDB        relid = 92    DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     gridno      DMCOUNT      (ushort)  <--- key
     grpprio     DMUCHAR      (uchar)
         User, Compacted and Stored Tuple Layout   GPDB
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |             gridno            |    grpprio    |***************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLgpdb

There are no population rules for this relation.

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# GPID_NET

## 1. Description

This relation maps an internal ARS Group ID into an external leased network ARSID to be sent to a LN Via office in a CCS7 ISUP IAM. This relation is related to the relation RLnet_gpid.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LRFR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
GPID_NET    relid = 1344  DBSTATIC   DBACC_HASH  DBPRAM    LRFR    NULL
     argp        DMMCC_FID    (ushort)  <--- key
     net_arsid   DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout   GPID_NET
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |              argp             |   net_arsid   |***************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLgpid_net

**Relation Description**
ARS Group ID to leased network ARSID.

This relation maps an internal automatic route selection (ARS) Group ID into an external leased network ARSID to be sent to a LN Via office in a CCS7 ISUP IAM.

This relation is the inverse of RLnet_gpid. There can be one or two tuples in this relation for each tuple in RLnet_gpid. If the ardtgpid attribute in RLnet_gpid is populated (non-zero), there will be two tuples in this relation, one keyed by RLnet_gpid.ars_gpid and one keyed by RLnet_gpid.ardtgpid. If RLnet_gpid.ardtgpid is not populated (set to zero) there will be one tuple in this relation keyed by RLnet_gpid.ars_gpid.

**Attribute: argp**

**Fullname:** Automatic Route Selection Group ID

**Attribute Description** Internal ARS group ID assigned to the associated ARS group name. This is the same as RLnet_gpid.ars_gpid for voice groups and RLnet_gpid.ardtgpid for data groups.

**Attribute: net_arsid**

**Fullname:** Leased Network ARSID

**Attribute Description** Leased Network ARSID received by the LN ACP from the LN NCP, or

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received by a LN Via office in a CCS7 ISUP IAM.

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# GPRT_R

## 1. Description

This relation contains the group and member number to port. This is a physical relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65531 |
| expected number of tuples | 273 |
| density | 24 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | GCRTG |
| relation type | DBSTORAGE |

## 3. Field Layout

```
GPRT_R      relid = 1668  DBSTORAGE  DBACC_DHSH  DBPRAM    LPFPFG  GCRTG


    member      DMMEMBER     (ushort)  <--- key
    qkey        DMUNS16      (ushort)
    lport       DMLPORT      (ushort: 16)
    ltm_idx     DMLTM_IDX    (ulong: 16)
    grpnum      DMGRUPNM     (ushort: 13)      <--- key
(a) lpt_type    DMLPT_TYPE   (enum: 2)
(b) grptype     DMPTYPE      (enum: 1) <--- key
    fac_mod     DMMODULE     (ushort: 8)
    psu_mod     DMMODULE     (ushort: 8)
    tsi_link    DMLINKNO     (ushort: 6)
    vpidb       DMVPIDB      (ushort: 6)
    party       DMPARTY      (ushort: 4)
(c) ltm_type    DMLTM_TYPE   (enum: 1)
(d) lifo        DMBOOL       (enum: 1)
    port        DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
        User, Compacted and Stored Tuple Layout GPRT_R
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             member            |              qkey             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |             lport             |            ltm_idx            |
   |---------------+---------------+---------------+---------------|
   |                           |   | |               |               |
 8 |          grpnum           | a |b|    fac_mod    |    psu_mod    |
   |---------------+---------------+---------------+---------------|
   |           |           |       | | |                           |
12 |  tsi_link |   vpidb   | party |c|d|***************************|
   |===============+============  port ============+===============|
   |                               |               |               |
```

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```
 16 |             member            |***************|     module    |
    |===============+===============+===============+===============|
       ( 20 bytes )
```

## 4. Population rules for RLgprt_r

**Relation Description**

There are no population rules for this relation.

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# GROUP_PORT

## 1. Description

This relation contains the group and member number to port.

This is a virtual relation. The tree diagram Figure 1 depicts the stored structure of virtual relation GROUP_PORT.

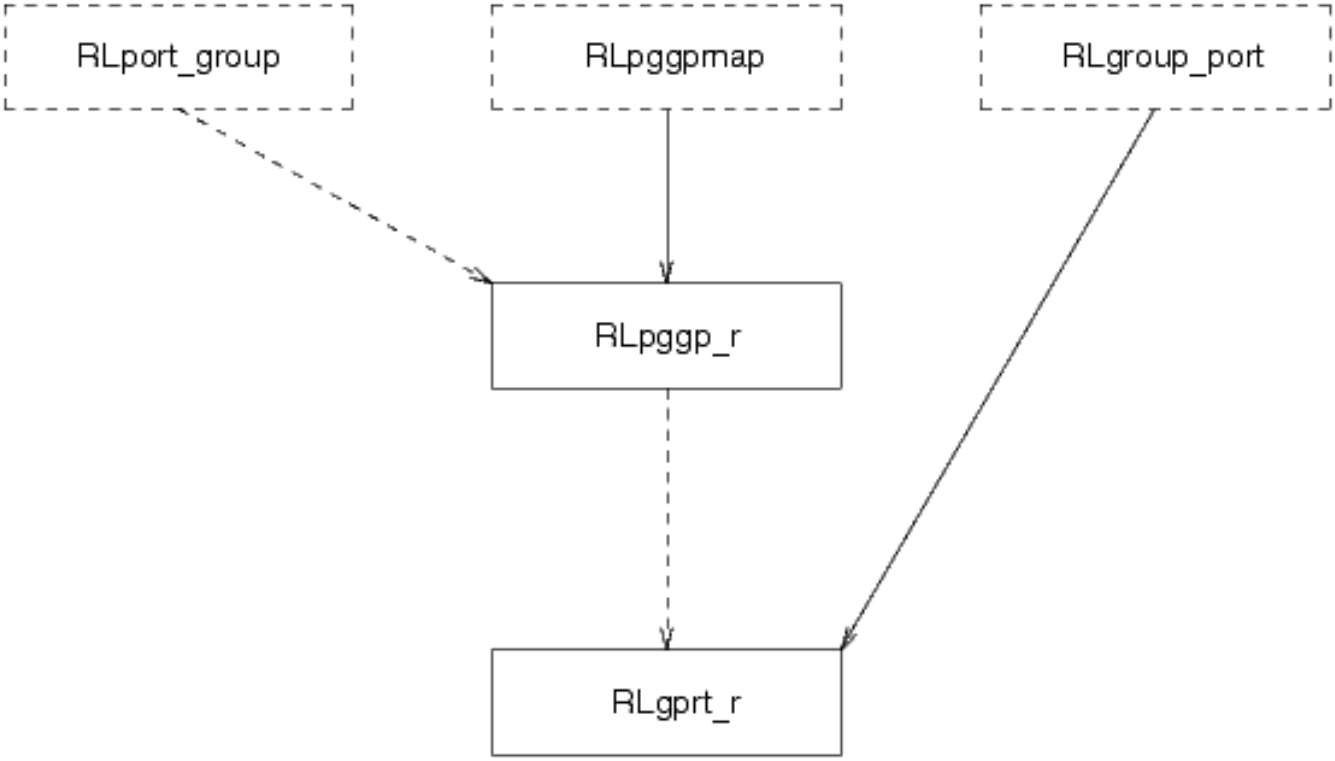


**Figure 1 Virtual Relation GROUP_PORT**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LPFPFG |
| application | GCRTG |
| relation type | DBSTATIC |
| trigger function | DBgroup_port |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | unperm |
| identical to | rlPGGPMAP |

## 3. Field Layout

```
GROUP_PORT  relid = 37    DBSTATIC   DBACC_OPV   DBNOTODD  LPFPFG  GCRTG


    portgrp     DMPORTGRP    (struct)  <--- key, compacted
        grpnum      DMGRPNUM     (ushort)
(a)     grptype     DMPTYPE      (enum: 1)
    member      DMMEMBER     (ushort)  <--- key
```

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```
    port        DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    party       DMPARTY      (ushort: 4)
    tsi_link    DMLINKNO     (ushort: 6)
    vpidb       DMVPIDB      (ushort: 6)
    qkey        DMUNS16      (ushort)
    lport       DMLPORT      (ushort: 16)
(b) lpt_type    DMLPT_TYPE   (enum: 2)
(c) ltm_type    DMLTM_TYPE   (enum: 1)
(d) lifo        DMBOOL       (enum: 1)
    ltm_idx     DMLTM_IDX    (ulong: 16)
    fac_mod     DMMODULE     (ushort: 8)
    psu_mod     DMMODULE     (ushort: 8)
           User Tuple Layout    GROUP_PORT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+=========== portgrp ===========+===============|
   |                               |             | |               |
 0 |             grpnum            |*************|a|***************|
   |===============+===============+===============+===============|
   |                               |                               |
 4 |             member            |*******************************|
   |===============+============  port ============+===============|
   |                               |               |               |
 8 |             member            |***************|     module    |
   |===============+===============+===============+===============|
   |       |           |           |                               |
12 | party |  tsi_link |   vpidb   |              qkey             |
   |---------------+---------------+---------------+---------------|
   |                               |   | | |                       |
16 |             lport             | b |c|d|***********************|
   |---------------+---------------+---------------+---------------|
   |                               |               |               |
20 |            ltm_idx            |    fac_mod    |    psu_mod    |
   |---------------+---------------+---------------+---------------|
      ( 24 bytes )


    portgrp     DMCPRTGP     (struct)  <--- key, compacted
(a)     zerobits    DMUNS3       (ushort: 3)
        grpnum      DMGRUPNM     (ushort: 13)
(b)     grptype     DMPTYPE      (enum: 1)
    member      DMMEMBER     (ushort)  <--- key
    port        DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    party       DMPARTY      (ushort: 4)
    tsi_link    DMLINKNO     (ushort: 6)
    vpidb       DMVPIDB      (ushort: 6)
    qkey        DMUNS16      (ushort)
    lport       DMLPORT      (ushort: 16)
(c) lpt_type    DMLPT_TYPE   (enum: 2)
(d) ltm_type    DMLTM_TYPE   (enum: 1)
```

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```
(e) lifo        DMBOOL       (enum: 1)
    ltm_idx     DMLTM_IDX    (ulong: 16)
    fac_mod     DMMODULE     (ushort: 8)
    psu_mod     DMMODULE     (ushort: 8)
       Compacted and Stored Tuple Layout    GROUP_PORT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+========== portgrp ==========+===============|
   |     |                          |             | |               |
 0 |  a  |          grpnum          |*************|b|***************|
   |===============+===============+===============+===============|
   |                                |                               |
 4 |             member             |*******************************|
   |===============+============  port ============+===============|
   |                                |               |               |
 8 |             member             |***************|     module    |
   |===============+===============+===============+===============|
   |       |           |            |                               |
12 | party |  tsi_link |   vpidb    |              qkey             |
   |---------------+---------------+---------------+---------------|
   |                                |   | | |                       |
16 |             lport              | c |d|e|***********************|
   |---------------+---------------+---------------+---------------|
   |                                |               |               |
20 |            ltm_idx            |    fac_mod    |    psu_mod    |
   |---------------+---------------+---------------+---------------|
      ( 24 bytes )
```

## 4. Population rules for RLgroup_port

### Relation Description

group to port.

Group and member number to port.

"Specific application section ****************************************

RLgroup_port (DCTU trunk groups and members)

DESCRIPTION:

Population rules regarding DCTU trunk groups and the corresponding DCTU trunk group members are presented.

NOTE:

(1) For each separate DCTU trunk group number (portgrp.grpnum) the DCTU trunk group MUST be defined in the relations RLRT_TRKG and RLRCTGRPRK. See the population rules for RLrt_trkg and RLrctgrprk.

(2) For each DCTU trunk group number, there MUST be a minimum of

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four (4) members. The maximum number can only be determined from the number of DCTUs that are part of any DCTU trunk group. The number of members in any DCTU trunk group should always be divisible by four.

(3) A DCTU trunk group CAN have members from any number of DCTUs in a HOST 5ESS(R)-2000 Switch processing entity. For each HOST DCTU trunk group member within a HOST DCTU trunk group, there MUST be a corresponding entry in RLFC_PORTTYP in the particular SM where the physical DCTUPORT circuit is defined. See the population rules for RLfc_porttyp and RLcktdata.

(4) For each RSM DCTU trunk group member within a RSM DCTU trunk group, there MUST be a corresponding entry in RLFC_PORTTYP in the SAME RSM where the physical DCTUPORT circuit is defined. See the population rules for RLcktdata and RLfc_porttyp.

(5) For each DCTU trunk group member, there MUST be a corresponding entry in RLQKEYPORT. A singular value for 'qkey' is required for each DCTU trunk group member since they are FIFO hunted. This rule includes DCTUs in both the HOST 5ESS(R)-2000 switch processing entity and RSMs. See the population rules for RLqkeyport.

(6) For each DCTU trunk group member, there MUST be a corresponding entry in RLpggpmap. This rule includes DCTUs in both the HOST 5ESS(R)-2000 switch processing entity and RSMs. See the population rules for RLpggpmap.

(7) For each DCTU trunk group member, there MUST be a corresponding entry in RLRC_TRK. This rule includes DCTUs in both the HOST 5ESS(R)-2000 switch processing entity and RSMs. See the population rules for RLrc_trk.

(8) There can be one fully equipped DCTU per SM that contains 12 DCTUPORTs. There is one DCTUPORT LTP defined for each DCTUPORT. There is one DCTU trunk group member per DCTUPORT LTP. There can be 192 DCTUs in an office. Therefore, the theoretical maximum number of tuples in this relation owing to DCTU trunk group members is:

( 1 DCTU/SM) x ( 192 SMs/office) x ( 12 DCTUPORTs/DCTU) x

( 1 (DCTUPORT LTP)/DCTUPORT ) x ( 1 member/(DCTUPORT LTP) )

= 2,304 members/office owing to the DCTU

(9) The same restrictions that apply to RSM also apply to ORM/TRM.

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QUANTITY OF TUPLES:

One tuple for each DCTU trunk group member defined in an office

TUPLE SEMANTICS:

```
portgrp.grpnum (KEY)  - DCTU trunk group number
                        Must be entry in RLrt_trkg and RLrctgrprk
portgrp.grptype (KEY) - TM_TRK
member (KEY)          - DCTU trunk group member number
port.member           - DCTUPORT logical test port name
port.module           - SM where DCTUPORT LTP is defined
                        entry MUST be defined in RLFC_PORTTYP
party                 - 0
qkey                  - same as entry in RLQKEYPORT
                        required since DCTU trunk group members
                        are FIFO hunted.
lport                 - 0
lpt_type              - LPT_OTHER
ltm_type              - LTM_OTHER
ltm_idx               - a valid value is assigned but is not
                        referenced or used.
```

**********

RLgroup_port (ISTF trunk groups and members)

DESCRIPTION:

Integrated Services Test Function (ISTF) trunk group members are real
ly
Logical Test Ports (LTP) and do not have actual hardware dedicated to them. These members are instead associated with the channels serving the ISTF. The trunk group itself has 1 group per LTP type (servclass=TM_ISTFLB, servclass=TM_ISTFXMIT). RLISTF contains an attribute for each service which indicates the number of members that board is contributing to the group. As an example, the number of loopback members is given by RListf.lb_cnt. All these members are part of the trunk group for loopback services for the system.

There is also a RLpggpmap relation which contains the exact same data. The data is just accessed with a different key.

QUANTITY OF TUPLES:

One tuple for each ISTF trunk group member defined in an office

TUPLE SEMANTICS:

```
portgrp.grpnum (KEY)  - ISTF trunk group number.  There is only
                        one group number per LTP type.  Must be
                        an entry in RLrt_trkg and RLrctgrprk.
```

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```
portgrp.grptype (KEY) - TM_TRK
member (KEY)          - ISTF trunk group member number.  The
                        RListf relation has a count field for
                        each LTP type.  These fields identify
                        how many members exist per ISTF board.
port.member           - ISTF logical test port name
port.module           - SM where ISTF LTP is defined
                        entry must be defined in RLFC_PORTTYP
party                 - 0
qkey                  - same as entry in RLQKEYPORT
                        required since ISTF trunk group members
lport                 - 0
lpt_type              - LPT_OTHER
ltm_type              - LTM_OTHER
ltm_idx               - a valid value is assigned but is not
                        referenced or used.
                        are FIFO hunted.
```

**********

RLgroup_port (for DSU2-RAF/SAS Port Groups and members)

DESCRIPTION:

This relation must be populated to define the mapping between DSU2-RAF/SAS Port Groups and their members. Each Port Group can contain member ports from one or more DSU2-RAFs/SASs spanning one or more SMs.

NOTE:

(1) For every RAF/SAS Port Group specified in this relation, a corresponding tuple must exist in RT_TRKG, RCTGRPRK and RC_TRK.

(2) For every port specified in this relation, a corresponding tuple must be populated in the port_group, QKEYPORT, FC_PORTTYP and RC_TRK, relations.

(3) In addition, for every RAF/SAS port specified here, population must exist in the relation RLcktdata for each port circuit.

(4) Any port defined to belong to a RAF/SAS Port Group as defined here CANNOT under any circumstances belong to any other RAF/SAS Port Group.

(5) A maximum of eight (8) DSU2-RAFs, or eight (8) SASs, or any combination of DSU2-RAFs and SASs totaling no more than eight (8) can reside on any one SM.
This implies an upper limit of 8 x 32 or 256 RAF/SAS ports on any one SM (across all Port Groups) (5E3).
For DSU2-RAFs having the Dial-Through Announcement (DTA) capability, this implies an upper limit of 8 x 20 or 160

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```
                RAF ports on any one SM (across all Port Groups).
                 DSU2-RAF-COIN:
                  For DSU2-RAFS having the coin capability, this implies an
                  upper limit of 8 x 20 or 160 RAF ports on any one SM
                  (across all Port Groups).
               SASs providing DTA or COIN functionality are not limited
               to 20 ports each like DSU2-RAFs, but support the full
               32 ports; therefore, the upper limit of SAS ports on
               any one SM is always the full 8 x 32 or 256.

         QUANTITY OF TUPLES:

               One tuple per RAF/SAS Port Group member

         TUPLE SEMANTICS:

               portgrp.grpnum  - RAF/SAS Port Group number (from RT_TRKG)
               portgrp.grptype - TM_TRK
               member          - RAF/SAS Port Group member number
                                 (assigned by office)
               port.module     - SM on which RAF/SAS port resides
               port.member     - RAF/SAS Port as previously defined
               party           - 0
               qkey            - same as entry in QKEYPORT
               lport           - 0
               lpt_type        - LPT_OTHER
               ltm_type        - LTM_OTHER
               ltm_idx         - same as entry in RLfc_trunk.ltm_idx

        ************************************************************************

                        RLgroup_port (ISDN MLHG groups and members)

                        NOTE: Also this relation must be populated if this is the lea
d
                              port for a secondary only MLHG member.

              portgrp.grpnum (KEY)  - ISDN MLHG group number.
                                      Must be an entry in RLrt_mhg.
              portgrp.grptype (KEY) - TM_LINE
              member (KEY)          - ISDN MLHG group member number
              port.member           - D-channel of the ISDN port or analog
                                      port if RLfc_porttyp(port).sh_analog = DBYES.
              port.module   - SM where the port member is defined
                              entry must be defined in RLfc_porttyp.
              party          - User number on this physical port.  For
                               users on a multipoint DSL, this value may range
                               from 0-7.
               qkey          - 0
               lport         - logical port.  Will have an entry in RLfc_line
                               keyed with RLgroup_port.port and RLgroup_port.party.
                               Range: 1 - max (See RLfc_line poprules)
                               Default: none
```

```
lpt_type      - LPT_ISDN

ltm_type      - indicates which type of ltm_idxs to use.
                If LTM_ISDN, there will be a RLis_line tuple with
                key ltm_idx.  See rules for ltm_idx.
                Range: LTM_OTHER, LTM_ISDN
                Default: LTM_OTHER
ltm_idx       - A RC/ODA assigned ltm_idx value.  The
                port.module and ltm_idx values are used as key values
                lead_module and ltm_idx, respectively to access
                relations such as RLis_line, RLdnfeats, RLshterm,
                etc. See RLrc_qidx for rules for assigning
                the value.  RLis_line requires a tuple keyed by
                port.module  and ltm_idx.

If this is the lead port for a secondary only MLHG member the
ltm_idx is mapped from RLis_line instead of RLfc_line. Note
that all other attributes in this section should be populated
the same as specified, regardless if the MLHG member is secondary
or not.
```

**Attribute:**
portgrp
**Fullname:**
port group id.
**Attribute Description:**
Trunk group or multiline hunt group.

**Attribute:**
portgrp.grpnum
**Fullname:**
Group number.
**Attribute Description:**
group number for trunk or multiline hunt group.

**Attribute:**
portgrp.grptype
**Fullname:**
group type.
**Attribute Description:**
Group type.

TM_LINE for MLHG
TM_TRK for trunk

**Attribute:**
member
**Fullname:**
member.

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**Attribute Description:**
Trunk group member or MLHG member number.

The following population rules apply to OUTDIAL MLHG members:
Multiline Hunt Group members can now exist in the extended range of 3001-3999. This range is reserved for outdial members of a MLHG. A member one must still exist before any outdial members can exist.
These members are not hunted like other members in the multiline hunt group. They may or may not have a directory number. If not, then it is not possible to terminate to that member.
OUTDIAL members are not allowed to hunt groups with HTYPE = RTH_MUPH in rlRT_MHG.

**Attribute:**
port
**Fullname:**
Global port name.
**Attribute Description:**
Global port name.

**Attribute:**
port.member
**Fullname:**
Port member
**Attribute Description:**
Port member.

**Attribute:**
port.module
**Fullname:**
port module.
**Attribute Description:**
SM where member is defined.

**Attribute:**
party
**Fullname:**
Party value
**Attribute Description:**
User number on this physical port. For users on a multipoint DSL, this value may range from 0-7. If this tuple has LPT_TYPE equal to LPT_ISDN, and it is not for Shared analog lines in an analog MLHG, then the tuple in RLlpt_pt (keyed by RLgroup_port.lport and RLgroup_port.lpt_type) must have either csd_hunt or csv_hunt set to DBYES.

The DMparty domain has a range of 0-7 for ISDN users. The

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value represents the user on a DSL. The DMparty domain has a range of 0-9 for analog users. In addition, for analog, the class of service (in RLfc_porttyp) and the MFRI bit (in RLfc_line) are used to determine the type of ringing.

The following chart shows how RC and ODA map the old party enumerations to the new party values and MFRI bit. Any combinations not listed here map to a party value of zero.

With a service class of INDIV, the value of party is dependent on the MFRI bit.

| Service Class | Party | Party Enum | MFRI bit |
|---|---|---|---|
| INDIV | 0 | FCP_INDI | N |
| INDIV | 1 | FCMFR_R1 | Y |
| INDIV | 2 | FCMFR_R2 | Y |
| INDIV | 3 | FCMFR_R3 | Y |
| INDIV | 4 | FCMFR_R4 | Y |
| INDIV | 5 | FCMFR_R5 | Y |
| INDIV | 6 | FCMFR_T1 | Y |
| INDIV | 7 | FCMFR_T2 | Y |
| INDIV | 8 | FCMFR_T3 | Y |
| INDIV | 9 | FCMFR_T4 | Y |
| INDIV | 0 | FCMFR_T5 | Y |

The service classes of FC_PBX and PBXHOTMOT can also be assigned to MLHG Members which have MFRI ringing assigned. Thus, the party and MFRI information in the previous chart for INDIV also applies to these 2 service classes. This means that each instance of INDIV in the previous chart can be replaced by either FC_PBX or PBHOTMOT and the resulting statement will still be true.

**Attribute:**

tsi_link

**Fullname:**

Time Slot Interchanger (TSI) link associated with the port

**Attribute Description:**

This attribute is the TSI link associated with this trunk. It is used to support fast port inhibit.
This attribute is only used for trunks assigned to the following trunk units:

SMDNU_S
SMDLTU2
SMDLTU

**Attribute:**

vpidb

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**Fullname:**
Virtual Peripheral Interface Data Bus
**Attribute Description:**
This attribute identifies the channel on a Peripheral Control and Timing (PCT) link associated with the trunk.

This attribute identifies the PIDB on a DX. The PIDB is associated with a Digital Line Trunk Unit-2 (DLTU2) facility.

This attribute is only used for facilities assigned to the following trunk units:
SMDNU_S
SMDLTU2
SMDLTU

**Attribute:**
qkey
**Fullname:**
Arbitrary key.
**Attribute Description:**
Arbitrary key used by RC & RTA to represent certain hunt types.

The following rules apply to the qkey attribute in relations RLqkeyport, RLgroup_port:
If portgrp.grptype in relations RLgroup_port and RLpggpmap is TM_LINE, qkey in RLgroup_port is 0.
If portgrp.grptype in relations RLgroup_port and RLpggpmap is TM_TRK, then if trunk hunt type (htype in RLrt_trkg keyed by portgrp.grpnum) is RTH_FIFO, RTH_ROTATE, RTH_PRFIFO, or RTH_PLFIFO, then qkey value is allocated from base address in RLrc_idx. For other trunk hunt types, qkey is 0. If qkey is non-zero, then a tuple keyed by this qkey must exist in RLqkeyport, with gport = RLpggpmap.port.

If RLrt_trkg.htype = RTH_PSUCD, a different qkey is generated for RLqkeyport, RLpsgp_prt, and RLpsprt_gp such that
1. RLqkeyport.qkey = RLpsgp_prt.qkey = RLpsprt_gp.qkey
2. RLrt_trkg.portgrp.grpnum = RLpsgp_prt.grpnum
   RLpsprt_gp.grpnum
3. RLpsgp_prt.ph_number = RLpsprt_gp.ph_number
   RLqkeyport.ph_number
4. RLpsgp_prt.ph_cn = RLpsprt_gp.ph_cn
   RLqkeyport.ph_cn

**Attribute:**
lport
**Fullname:**
Logical port.
**Attribute Description:**

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Logical port of the MLHG member or trunk group member. A
sequential number administered per SM.
If portgrp.grptype = TM_LINE (if a line) then
lport = RLfc_line(RLpggpmap.port,RLpggpmap.party).lport
AND
lpt_type = RLfc_line(RLpggpmap.port,RLpggpmap.party).lpt_type
If portgrp.grptype = TM_TRK (if a trunk) then
lport = RLfc_trunk(RLpggpmap.port).lport
AND
lpt_type = LPT_OTHER.

**Attribute:**
lpt_type
**Fullname:**
Logical port type.
**Attribute Description:**
The logical port type of the user.
LPT_ISDN (for ISDN MLHG member);
LPT_OTHER (for analog BRCS MLHG member and trunk member).

**Attribute:**
ltm_type
**Fullname:**
logical termination index type.
**Attribute Description:**
Logical termination index type.
Indicates which type of ltm_idxs to use.
LTM_ISDN - if:
1) RLis_term.cpetyp is IS_TYPEA, IS_TYPEB, IS_TYPEC,
IS_TYPED, IS_TYPEE, or IS_TYPATT, or
2) RLfc_porttyp.sh_analog = DBYES,
Indicates that this is an ISDN BRCS MLHG member.
Otherwise LTM_OTHER.
Indicates whether this is an analog MLHG member or trunk member.
If LTM_ISDN, there will be a RLis_line tuple with key ltm_idx.

**Attribute:**
ltm_idx
**Fullname:**
Logical termination index.
**Attribute Description:**
Logical termination index.
Indicates which type of ltm_idxs to use.
LTM_ISDN - if:
1) RLis_term.cpetyp is IS_TYPEA, IS_TYPEB, IS_TYPEC,
IS_TYPED, IS_TYPEE, or IS_TYPATT, or
2) RLfc_porttyp.sh_analog = DBYES,
Indicates that this is an ISDN BRCS MLHG member.
Otherwise LTM_OTHER.
Indicates whether this is an analog MLHG member or trunk member.

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If LTM_ISDN, there will be a RLis_line tuple with key ltm_idx.

**Attribute:**
lifo
**Fullname:**
Last In First Out indicator.
**Attribute Description:**
Indicates that the hunt sequence is either least idle or most idle if the hunt is RTH_MIDL_LIDL.

**Attribute:**
psu_mod
**Fullname:**
module number of the GSM used for SS7 PSU trunk signaling
**Attribute Description:**
This attribute is set to the GSM number when the trunk group uses that GSM for SS7 trunk signaling. Otherwise the psu_mod is set to 0.

**Defines:**
"db/DMvpidb.h",
"db/DMlinkno.h",
"db/DMparty.h"

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# GRP_MPM

## 1. Description

Modem Pool group & member to member information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 768 |
| expected number of tuples | 7 |
| memory type | DBPRAM |
| distribution | LP |
| application | MPTM |
| relation type | DBSTATIC |
| access type | DBACC_HASH |

## 3. Field Layout

```
GRP_MPM     relid = 820   DBSTATIC   DBACC_HASH  DBPRAM    LP      MPTM
     member       DMMEM         (ushort: 12)     <--- key
     party        DMPARTY       (ushort: 4)
     grpnum       DMGRUPNM      (ushort: 11)     <--- key
     module       DMMODULE      (ushort: 8)
     ph_number    DMPHNBR       (uchar: 7)
     ph_cn        DMPHCN        (uchar: 7)
     dslport      DMGPORT       (struct)
         member       DMPORT        (ushort)
         module       DMMODULE      (ushort: 8)
     alocdn       DMLOCDN       (struct)     <--- compacted
         noc          DMNOC         (ushort: 8)
         digits       DMLOCDIG      (array [ 4 ] of char )
            User Tuple Layout   GRP_MPM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |       |                       |       |
  0 |          member         | party |         grpnum        |*******|
    |---------------+---------------+---------------+---------------|
    |               |             | |             |                 |
  4 |     module    |  ph_number  |*|    ph_cn    |*****************|
    |===============+=========== dslport ===========+===============|
    |                             |                 |               |
  8 |              member         |***************|     module    |
    |===============+===========  alocdn ===========+===============|
    |               |               |                               |
 12 |***************|      noc      |             digits            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 16 |              digits           |*******************************|
    |===============+===============+===============+===============|
       ( 20 bytes )
     member       DMMEM         (ushort: 12)     <--- key
     party        DMPARTY       (ushort: 4)
     grpnum       DMGRUPNM      (ushort: 11)     <--- key
     module       DMMODULE      (ushort: 8)
```

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```
    ph_number   DMPHNBR      (uchar: 7)
    ph_cn       DMPHCN       (uchar: 7)
    dslport     DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    alocdn      DMCLOCDN     (struct)     <--- compacted
        noc         DMNOC        (ushort: 8)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
         Compacted Tuple Layout    GRP_MPM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                       |       |                       |       |
 0 |         member        | party |        grpnum         |*******|
   |---------------+---------------+---------------+---------------|
   |               |             | |             |                 |
 4 |     module    |  ph_number  |*|    ph_cn    |*****************|
   |===============+=========== dslport ===========+===============|
   |                             |                 |               |
 8 |             member          |***************|     module    |
   |===============+===========  alocdn ===========+===============|
   |               |             |       |       |       |       |
12 |***************|      noc    |  dig3 |  dig1 |  dig4 |  dig2 |
   |===============+===============+===============+===============|
   |                                                               |
16 |***************************************************************|
   |---------------+---------------+---------------+---------------|
     ( 20 bytes )
    member      DMMEM        (ushort: 12)     <--- key
    party       DMPARTY      (ushort: 4)
    grpnum      DMGRUPNM     (ushort: 11)     <--- key
    module      DMMODULE     (ushort: 8)
    ph_number   DMPHNBR      (uchar: 7)
    ph_cn       DMPHCN       (uchar: 7)
    dslport     DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    alocdn      DMCLOCDN     (struct)     <--- compacted
        noc         DMNOC        (ushort: 8)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
          Stored Tuple Layout      GRP_MPM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                       |       |                       |       |
 0 |         member        | party |        grpnum         |*******|
   |---------------+---------------+---------------+---------------|
   |               |             | |             |                 |
```

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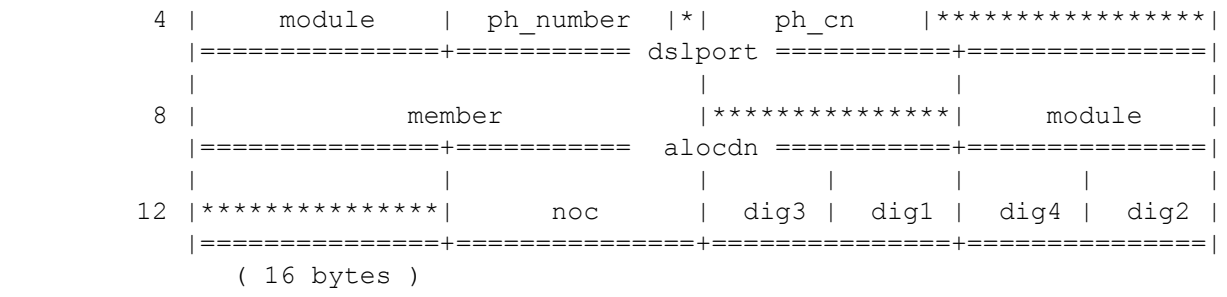


## 4. Population Rules for RLgrp_mpm

**Relation Description**
Modem pool group & member to member information.

A Modem Pool Group, which is a type of Multi-Line Hunt Group, consists of Modem Pool Members. Each Modem Pool Member consists of a modem and a terminal adaptor. The modem connects to the *5ESS*®-2000 switch by an analog line. The terminal adaptor connects to the *5ESS*®-2000 switch by a digital subscriber line. The analog line has a non-hunting DN; the digital subscriber line has no DN. All normal Multi-Line Hunt Group tuples are populated along with this tuple.

This tuple is populated when a new Modem Pool Member is added to the Modem Pool Group. The group and member number are associated with the analog side. The dslport, ph_number, and ph_cn, party are associated with the digital subscriber line.

One tuple for each Modem Pool Group member defined in the office.

As of 5E9, Modem Pooling will not be supported on the PH2 Access Image; it will only be supported on PH3's. In 5e10, it will be supported on both PH3's and PH4's.

**Attribute: grpnum**

**Fullname:** multiline hunt group number

**Attribute Description** This group number must have a tuple in RLrt_mhg and RLrt_mpg (1st Key value)

**Attribute: member**

**Fullname:** member number within group

**Attribute Description** member number of member within grpnum group (2nd Key value)

**Attribute: module**

**Fullname:** SM module number the MPM resides

**Attribute Description** The terminal adaptor and the modem (forming a single modem pool number) must be on the same SM.

**Attribute: dslport**

**Fullname:** the port name of the DSL for this MPM

**Attribute Description** This port must be previously populated in relation RLfc_porttype with a servclass of FC_ISDN.

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**Attribute: dslport.member**

**Fullname:** member

**Attribute Description** member number of the DSL for this MPM

**Attribute: dslport.module**

**Fullname:** module

**Attribute Description** module number of the DSL for this MPM

**Attribute: ph_number**

**Fullname:** the PH number serving the DSL for this MPM

**Attribute Description** Verify existence of tuple in RLpsprt_gp with key value:

```
key   RLpsprt_gp.module = RLgrp_mpm.module
key   RLpsprt_gp.ph_number = RLgrp_mpm.ph_number
key   RLpsprt_gp.ph_cn = RLgrp_mpm.ph_cn
```

As of 5E9, Modem Pooling will not be supported on the PH2 Access Image; it will only be supported on PH3's. In 5e10, it will be supported on both PH3's and PH4's.

**Attribute: ph_cn**

**Fullname:** the PH channel number serving the DSL for this MPM

**Attribute Description** For a given ph_number and a ph_cn there must be a tuple in psx25ln, dslequip, equipdsl, and psprt_gp relations.

**Attribute: party**

**Fullname:** the user party on the DSL for this MPM

**Attribute Description** Specific user within an ISDN DSL D-channel.

**Attribute: alocdn**

**Fullname:** the modem pool member analog LOC directory number

**Attribute Description** Every MPM has a non-hunt directory number that is used by terminal maintenance (TM) to connect two MPMs together for testing. The DN corresponds to the analog line of the MPM. This analog DN must have a tuple in RLrt_dntran with termclass set to RTTC_INDIV and ucd_muph set to DBNO. The other attributes for this analog DN in RLrt_dntran must be set to the same values as they would be for a member of a regular Multi-Line Hunt Group. This non-hunt DN must not be given to external customers.

**Attribute: alocdn.noc**

**Fullname:** normalized office code

**Attribute Description** normalized office code for the modem pool member analog LOC DN

**Attribute: alocdn.digits**

**Fullname:** digits

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**Attribute Description** local digits for the modem pool member analog LOC DN

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# GRP2CKT

## 1. Description

grpname to circuit
Mapping of logical GSDB group name, and unit type to a physical unit, circuit number, and line group number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65535 |
| expected tuples in relation | 4680 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| cluster | 4 |
| density | 100 |

## 3. Field Layout

```
GRP2CKT     relid = 2734  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     gsdb_grp    DMUNS16      (ushort)     <--- key
     ckt_no      DMCKTNUM     (ushort)
     grp_num     DMUNS16      (ushort)
     unit        DMUNITNO     (ushort: 8)
     utype       DMUNITTYPE   (enum: 7)     <--- key
         User, Compacted and Stored Tuple Layout    GRP2CKT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            gsdb_grp           |             ckt_no            |
    |---------------+---------------+---------------+---------------|
    |                               |               |             | |
  4 |            grp_num            |      unit     |    utype    |*|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLgrp2ckt

**Relation Description**
Mapping of logical GSDB group name, and unit type to a physical unit, circuit number, and line group number

This relation represents the translation from a GSDB logical group number to a circuit name. This relation is the inverse of RLckt2grp, so the only check made here is to be sure every tuple in this relation exist in RLckt2grp.

Relation RLgrp2ckt is accessed by the logical GSDB group number and is used to audit GSDBs.

**Attribute: unit**

**Fullname:** Unit number

**Attribute Description** This is the unit number on the SM.

**Attribute: utype**

**Fullname:** Unit type

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**Attribute Description** This is the unit type.

**Attribute: ckt_no**

**Fullname:** Circuit numbers

**Attribute Description** The circuit numbers

**Attribute: grp_num**

**Fullname:** Line Group Number

**Attribute Description** The line group number is derived by dividing the RT line number by eight (8). The RT line number can be obtained from the port index. If The RT line is a TR8 the line number is located in bits 0-6 of the port index. If the RT line is a TR303 then the line number is located in bits 2-13 of the port index.

**Attribute: gsdb_grp**

**Fullname:** GSDB group name

**Attribute Description** The GSDB group name. The group name is selected from the next available sequential value from a pool of group names in relation RLrc_qidx.

```
      The bit layout of the gsdb_grp for IDCU follows:
-----------------------------------------------------------------
|           |                                                   |
| 1   1   0 |             LOGICAL  GSDB                         |
|           |                                                   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
15  14  13  12  11  10   9   8   7   6   5   4   3   2   1   0

LOGICAL GSDB (bits 0-12)  - number 1 through 8191 (0x1FFF)
                            (Unique for each IDCU GSDB/SM)
                            Zero (0) is illegal.
      The bit layout of the gsdb_grp for DNU-S follows:
-----------------------------------------------------------------
|                                                               |
|                         LOGICAL  GSDB                         |
|                                                               |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
15  14  13  12  11  10   9   8   7   6   5   4   3   2   1   0

LOGICAL GSDB (bits 0-15)  - number 0x0001 through 0xFFFC
                            (Unique for each DNU-S GSDB/SM)
                            Zero (0) is illegal.
```

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# GRP2RPCU

## 1. Description

This WCTX relation contains the group ID to the RPCU to data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution type | FR |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
GRP2RPCU    relid = 2219  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     rpcu_grpid  DMRPCU_GRP   (ushort: 8)     <--- key
     rpcuid1     DMRPCUID     (ushort)
     rpcuid2     DMRPCUID     (ushort)
     rpcuid3     DMRPCUID     (ushort)
     rpcuid4     DMRPCUID     (ushort)
     rpcuid5     DMRPCUID     (ushort)
     rpcuid6     DMRPCUID     (ushort)
     rpcuid7     DMRPCUID     (ushort)
     rpcuid8     DMRPCUID     (ushort)
     rpcuid9     DMRPCUID     (ushort)
     rpcuid10    DMRPCUID     (ushort)
     rpcuid11    DMRPCUID     (ushort)
     rpcuid12    DMRPCUID     (ushort)
     rpcuid13    DMRPCUID     (ushort)
     rpcuid14    DMRPCUID     (ushort)
     rpcuid15    DMRPCUID     (ushort)
     rpcuid16    DMRPCUID     (ushort)
         User, Compacted and Stored Tuple Layout   GRP2RPCU
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |   rpcu_grpid  |***************|            rpcuid1            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            rpcuid2            |            rpcuid3            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            rpcuid4            |            rpcuid5            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |            rpcuid6            |            rpcuid7            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 16 |            rpcuid8            |            rpcuid9            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
```

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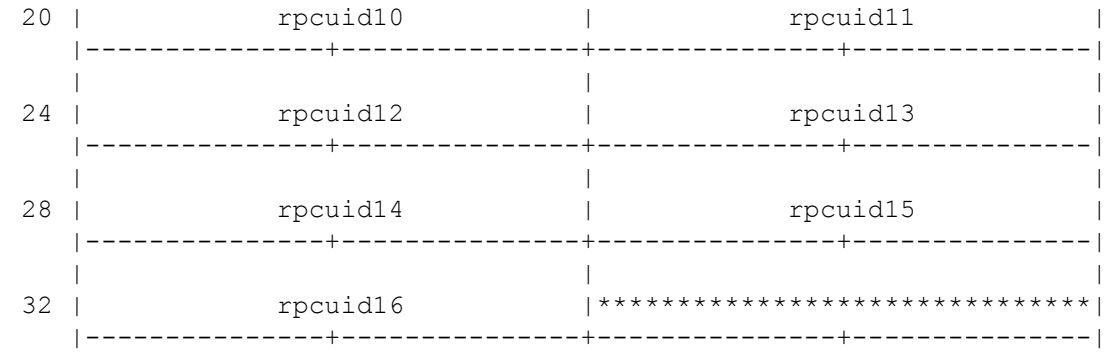
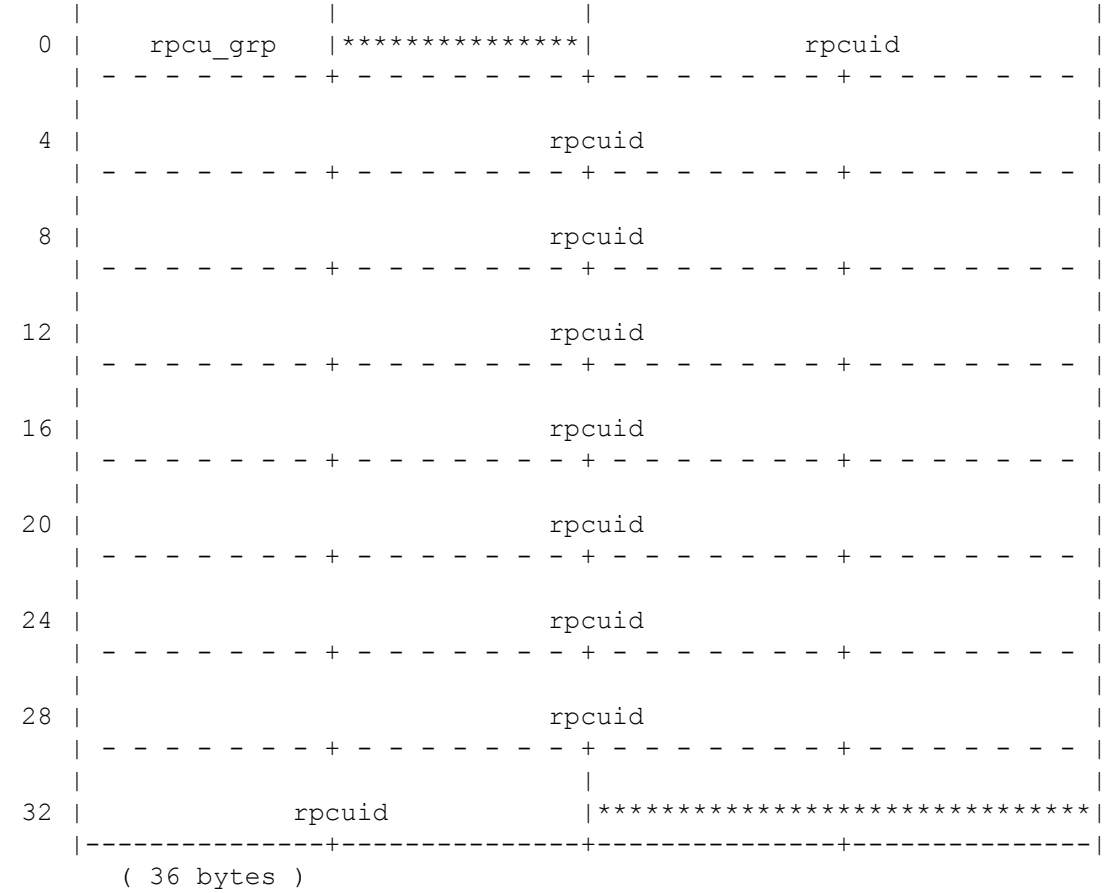



```
domain alGRP2RPCU struct  (2 sub-attributes)
         rpcu_grpid  .1.fake      (ushort)
         rpcuid      .2.fake      (array [ 16 ] of unsigned short )
         Structure Layout      alGRP2RPCU
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```




## 4. Population Rules for RLgrp2rpcu

**Relation Description**
This WIRELESS Centrex (WCTX) relation contains the Group ID to RPCU data.

This relation assigns the group ID to the RPCUs in a registration area.

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**Attribute: rpcu_grpid**

**Fullname:** RPCU Group Identifier

**Attribute Description** Identifies a group of RPCUs.

**Attribute: rpcuid[*]**

**Fullname:** RPCU Identifier.

**Attribute Description** Identifies the radio equipment.

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# GSM_NET

## 1. Description

This relation provides for SCCP information about networks known by this switch. It also serves to define information about as what state SCCP is functioning.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 16 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| relation type | DBSTATIC |
| distribution | LPFR |
| application | CCS |
| trigger function | CCglsm_net |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
GSM_NET     relid = 2401  DBSTATIC   DBACC_HASH  DBPRAM    LPFR    CCS


    gsm         DMMODULE     (ushort: 8)       <--- key
    net_num     DMUNS5       (ushort: 5)
(a) sig_type    DMSIG_TYPE   (enum: 2)
(b) sccp_acc    DMBOOL       (enum: 1)
    reasmbtmr   DMUNS5       (ushort: 5)
    hop_cnt     DMUNS4       (ushort: 4)
(c) sccp_type   DMSCCP_TYP   (enum: 2)
(d) sccp_init   DMSCCP_INT   (enum: 2)
(e) sccp_prc    DMSCCP_PRC   (enum: 2)
(f) actv_scr    DMBOOL       (enum: 1)
(g) scp_version  DMSCPVSN     (enum: 2)
(h) monitor     DMBOOL       (enum: 1)
(i) rmtsccpmgmnt  DMBOOL       (enum: 1)
(j) lclinit_ssna  DMBOOL       (enum: 1)
(k) lclinit_spec  DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout    GSM_NET
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |         |   | |         |       |   |   |   | |
 0 |      gsm      | net_num | a |b|reasmbtmr|hop_cnt| c | d | e |f|
   |---------------+---------------+---------------+---------------|
   |   | | | | |                                                   |
 4 | g |h|i|j|k|***************************************************|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population rules for RLgsm_net

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**Relation Description**

SCCP Global SM Network Definition Relation

This relation is used by SCCP as a definition of all GSM's and networks in the SCCP network served by this switch.

**Attribute:**
gsm
**Fullname:**
Global SM Number
**Attribute Description:**
This attribute specifies Global SM's part of the SCCP network. These SM's can be Standardization Sector (SS7) (formerly CCITT7) International or National.

**Attribute:**
sig_type
**Fullname:**
Message Transfer Part (MTP) Signaling Type
**Attribute Description:**
This attribute specifies the MTP signaling type under which SCCP is running.

**Attribute:**
net_num
**Fullname:**
SCCP Network Number
**Attribute Description:**
This attribute provides a mapping from SCCP Global SM's to SCCP network number.

**Attribute:**
sccp_type
**Fullname:**
Signaling Connection Control Part Type
**Attribute Description:**
This attribute specifies the Network Number of a SCCP Global SM.

**Attribute:**
sccp_init
**Fullname:**
SCCP Initializations Allowed
**Attribute Description:**
This attribute specifies whether SCCP is allowed to initialize. If this attribute is CCSCP_OPER, then SCCP is allowed. If this attribute is CCSCP_GROW, then SCCP is not allowed to initialize but SCCP RC/V screens can be used.

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**Attribute:**
sccp_prc
**Fullname:**
SCCP Processing Allowed
**Attribute Description:**
This attribute specifies whether SCCP message processing is allowed in the PH.

**Attribute:**
actv_scr
**Fullname:**
Activation and deactivation of SCCP screening
**Attribute Description:**
This attribute specifies whether screening of the SCCP messages feature activated or not.

**Attribute:**
sccp_acc
**Fullname:**
SCCP Accounting
**Attribute Description:**
The sccp_acc attribute will be set if the GSM (key) is performing SCCP Accounting. DBYES indicates the GSM is performing SCCP Accounting. DBNO indicates the GSM is NOT performing SCCP Accounting.

**Attribute:**
scp_version
**Fullname:**
SCCP Version
**Attribute Description:**
This attribute will be used to indicate the version of SCCP being used for this network and GSM.

**Attribute:**
hop_cnt
**Fullname:**
SCCP Hop Count
**Attribute Description:**
This attribute will contain the number of hops an SCCP XUDT or XUDTS message is allowed to take in the network.

**Attribute:**
reasmbtmr
**Fullname:**
SCCP Re-assembly Timer

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**Attribute Description:**
Re-assembly timer for SCCP XUDT or XUDTS message.

**Attribute:**
monitor
**Fullname:**
SCCP Display Monitor
**Attribute Description:**
SCCP Display Monitor - displays the performance data collected to the rop, in response to the output report SCCP Origination and Re-assembly Performance Report.

**Attribute:**
rmtsccpmgmnt
**Fullname:**
Remote SCCP Management
**Attribute Description:**
When this attribute has the value DBYES the Remote SCCP Management is performed. If value is DBNO the Remote SCCP Management is not performed.

**Attribute:**
lclinit_ssna
**Fullname:**
Local Initialization SSN Allowed
**Attribute Description:**
After Local Initialization, the states of the SSNs are initialized as Allowed, if the value of this parameter is DBYES and the lclinit_spec is of value DBYES. If the value of lclinit_ssna is DBNO and lclinit_spec is DBYES then the states are initialized as Prohibited. This parameter is not effective if lclinit_spec is DBNO.

**Attribute:**
lclinit_spec
**Fullname:**
Local Initialization Specific
**Attribute Description:**
The method of establishing the SSN status after an initialization is specific per GSM if its value is DBYES; else the SSN status is decided based upon sccp_type, attribute of this relation.

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# GSM_OPC

## 1. Description

This relation provides the basic mapping of a Standardization Sector (SS7) (formerly CCITT7) global SM to OPC and network. It was implemented as part of the change to the multiple global SM software architecture.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 16 |
| expected number of tuples | 5 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| relation type | DBSTATIC |
| distribution | LRFR |
| application | CCS |
| trigger function | CCegsm_opc |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
GSM_OPC     relid = 2386  DBSTATIC   DBACC_HASH  DBPRAM    LRFR    CCS


    gsm          DMMODULE     (ushort: 8)       <--- key
    opc          DMDPC        (ulong: 24)
    gsmi         DMGSMI       (ushort: 4)
(a) cic_length   DMCIC_LEN    (uchar: 4)
    pc_length    DMPC_LEN     (uchar: 5)
    n7var        DMN7VAR      (enum: 3)
    pc_fld1      DMPC_FLDS    (uchar: 5)
    ni           DMUNS2       (ushort: 2)
(b) network      DMNETWORK    (enum: 1)
    pc_fld2      DMPC_FLDS    (uchar: 5)
(c) congtype     DMCONGTYPE   (enum: 2)
(d) active       DMBOOL       (enum: 1)
    pc_fld3      DMPC_FLDS    (uchar: 5)
(e) off_type     DMDPCTYPE    (enum: 2)
(f) mtp_acc      DMBOOL       (enum: 1)
    alias_pc     DMDPC        (ulong: 24)
    clu_bitmask  DMHEX24       (ulong: 24)
    clu_bitshift  DMHEX8        (ushort: 8)
    net_bitmask  DMHEX24       (ulong: 24)
    net_bitshift  DMHEX8        (ushort: 8)
    alias_opc1   DMULONG       (ulong)
    alias_opc2   DMULONG       (ulong)
    alias_opc3   DMULONG       (ulong)
    alias_opc4   DMULONG       (ulong)
    alias_opc5   DMULONG       (ulong)
    alias_opc6   DMULONG       (ulong)
    alias_opc7   DMULONG       (ulong)
    alias_opc8   DMULONG       (ulong)
    alias_opc9   DMULONG       (ulong)
    alias_opc10  DMULONG        (ulong)
```

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```
     alias_opc11  DMULONG      (ulong)
     alias_opc12  DMULONG      (ulong)
     alias_opc13  DMULONG      (ulong)
     alias_opc14  DMULONG      (ulong)
     alias_opc15  DMULONG      (ulong)
 (g) sls_expansion  DMBOOL       (enum: 1)
 (h) restart_opt  DMRESTOPT    (enum: 2)
     sufflnkprt  DMUNS7       (ushort: 7)
     suffrteprt  DMUNS7       (ushort: 7)
 (i) gsmtype     DMGSMTYPE    (enum: 2)
         User, Compacted and Stored Tuple Layout    GSM_OPC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |      gsm      |                      opc                      |
    |---------------+---------------+---------------+---------------|
    |       |       |         |     |         |   | |         |   | |
  4 |  gsmi |   a   |pc_length|n7var| pc_fld1 | ni|b| pc_fld2 | c |d|
    |---------------+---------------+---------------+---------------|
    |         |   | |                                             |
  8 | pc_fld3 | e |f|                   alias_pc                  |
    |---------------+---------------+---------------+---------------|
    |                                               |               |
 12 |                 clu_bitmask                   |  clu_bitshift |
    |---------------+---------------+---------------+---------------|
    |                                               |               |
 16 |                 net_bitmask                   |  net_bitshift |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                          alias_opc1                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 24 |                          alias_opc2                           |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                                                               |
 72 |                         alias_opc14                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 76 |                         alias_opc15                           |
    |---------------+---------------+---------------+---------------|
    | |   |             |           |             | |   |           |
 80 |g| h |  sufflnkprt |***********|  suffrteprt |*| i |***********|
    |---------------+---------------+---------------+---------------|
       ( 84 bytes )


domain alGSM_OPC  struct  (26 sub-attributes)
         gsm         .16.fake     (ushort)
         opc         .17.fake     (ulong)
```

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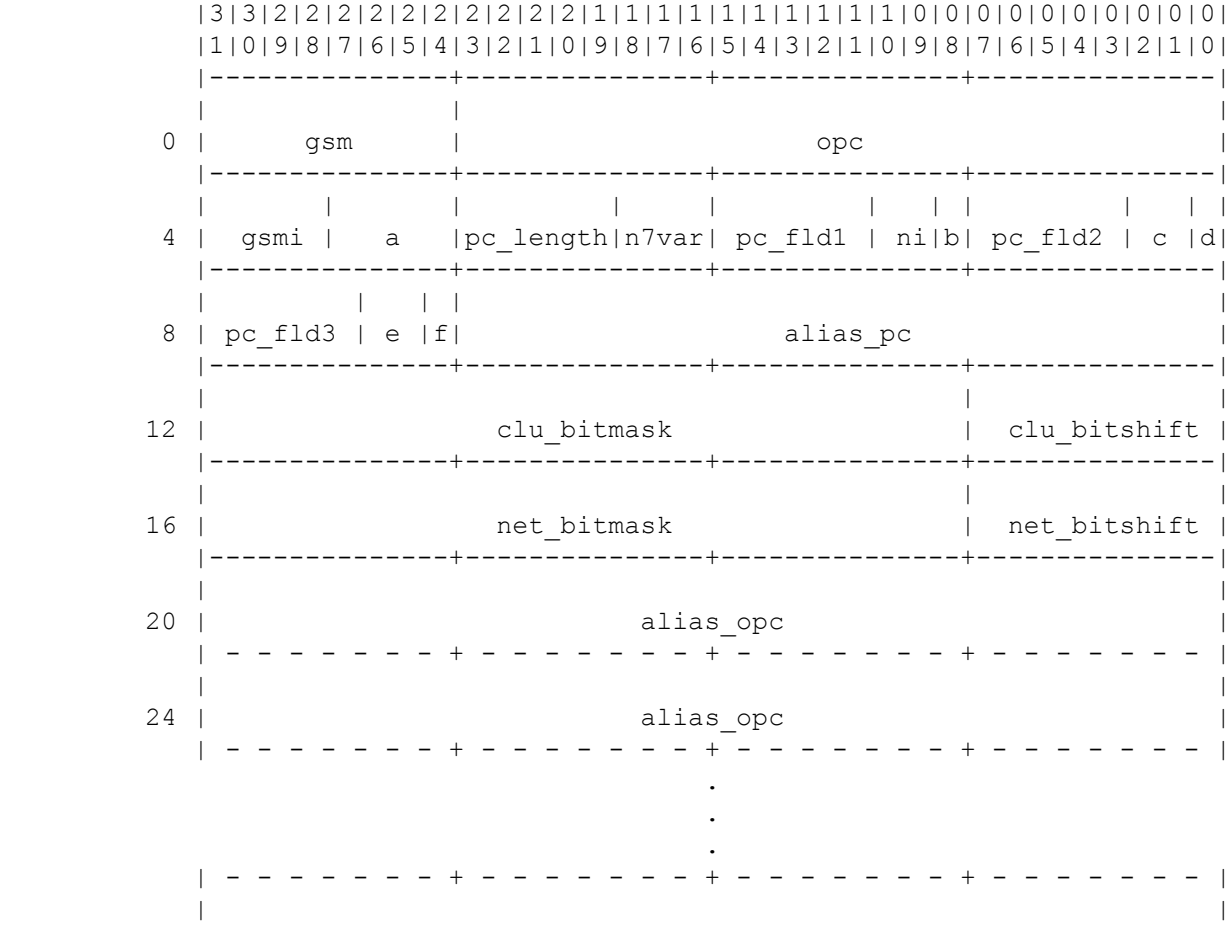
```
        gsmi         .18.fake     (ushort: 4)
(a)     cic_length   .19.fake     (uchar: 4)
        pc_length    .20.fake     (uchar: 5)
        n7var        .3fake       (enum)
        pc_fld1      .21.fake     (uchar: 5)
        ni           .22.fake     (ushort: 2)
(b)     network      .4fake       (enum)
        pc_fld2      .23.fake     (uchar: 5)
(c)     congtype     .1fake       (enum)
(d)     active       .0fake       (enum)
        pc_fld3      .24.fake     (uchar: 5)
(e)     off_type     .2fake       (enum)
(f)     mtp_acc      .0fake       (enum)
        alias_pc     .25.fake     (ulong)
        clu_bitmask  .26.fake      (ulong)
        clu_bitshift  .27.fake      (ushort)
        net_bitmask  .28.fake      (ulong)
        net_bitshift  .29.fake      (ushort)
        alias_opc    .30.fake     (array [ 15 ] of unsigned long )
(g)     sls_expansion  .0fake        (enum)
(h)     restart_opt  .6fake        (enum)
        sufflnkprt   .31.fake     (ushort: 7)
        suffrteprt   .32.fake     (ushort: 7)
(i)     gsmtype      .5fake       (enum)
```

Structure Layout  alGSM_OPC

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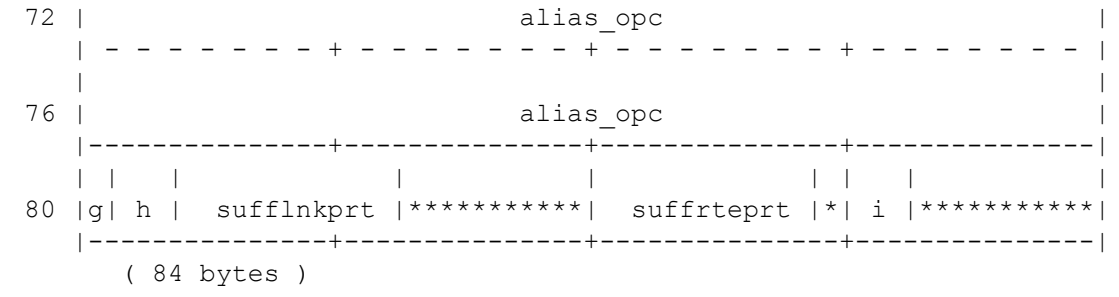


## 4. Population rules for RLgsm_opc

### Relation Description

GSM to OPC/Network Translation

This relation provides the basic mapping of global SM to OPC and network. It was implemented as part of the change to the multiple global SM soft-ware architecture. Each global SM that supports SS7 signaling, both national and international, is represented by a tuple in this relation.

**Attribute:**
gsm
**Fullname:**
Global SM Number
**Attribute Description:**
The number that specifies a global SM which supports national or international SS7 signaling.

**Attribute:**
gsmi
**Fullname:**
Global SM Index
**Attribute Description:**
This attribute is used as an abbreviated form of the global SM number.

**Attribute:**
network
**Fullname:**
SS7 Network
**Attribute Description:**
This attribute defines the SS7 network, national or international, supported by this global SM.

**Attribute:**
opc
**Fullname:**

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Origination Point Code

**Attribute Description:**

The value of this attribute is the point code assigned to this SS7 global SM.

**Attribute:**

active

**Fullname:**

Active/Standby Indicator

**Attribute Description:**

This attribute indicates whether the global SM is in active or standby mode. A value of DBYES indicates active. A value of DBNO indicates standby.

**Attribute:**

pc_length

**Fullname:**

Point Code Length

**Attribute Description:**

This attribute will hold the length of the Point Code in bits.

**Attribute:**

pc_fld1

**Fullname:**

Field 1 Point Code Size

**Attribute Description:**

This attribute will hold the number of bits in the highest ordered field of the Point Code.

**Attribute:**

pc_fld2

**Fullname:**

Field 2 Point Code Size

**Attribute Description:**

This attribute will hold the number of bits in the second highest ordered field of the Point Code.

**Attribute:**

pc_fld3

**Fullname:**

Field 3 Point Code Size

**Attribute Description:**

This attribute will hold the number of bits in the lowest ordered field of the Point Code.

**Attribute:**

congtype

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**Fullname:**
Type of Congestion
**Attribute Description:**
This attribute will hold the type of Congestion used by the GSM in this tuple.

**Attribute:**
n7var
**Fullname:**
SS7 National Variation Type
**Attribute Description:**
This attribute will hold the SS7 National Variation type for this GSM.

**Attribute:**
cic_length
**Fullname:**
Length of the Circuit Identification Code
**Attribute Description:**
This attribute will hold the length of the Circuit Identification Code.

**Attribute:**
ni
**Fullname:**
Network Indicator
**Attribute Description:**
This attribute will hold the Network Indicator Value.

**Attribute:**
off_type
**Fullname:**
Office Type
**Attribute Description:**
This attribute will hold the Office type Enumeration. The attribute could contain the enums CCSSEP, CCSSTP, or CCSSTEP.

**Attribute:**
alias_pc
**Fullname:**
Alias Point Code
**Attribute Description:**
The Alias Point Code will hold the optional alternative OPC of this GSM, which may be used by SCCP for routing. This attribute is meaningful only when the National Variation (n7var) is equal to CCANSI7V.

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**Attribute:**
mtp_acc
**Fullname:**
MTP Accounting
**Attribute Description:**
The mtp_acc attribute will be set if the GSM (key) is performing MTP Accounting. DBYES indicates the GSM is performing MTP Accounting. DBNO indicates the GSM is NOT performing MTP Accounting.

**Attribute:**
clu_bitmask
**Fullname:**
Cluster bitmask
**Attribute Description:**
A bit mask which zeroes out the member field of a DPC, leaving only the network+cluster fields intact.

**Attribute:**
net_bitmask
**Fullname:**
Network bitmask
**Attribute Description:**
A bit mask which zeroes out the cluster and member fields of a DPC, leaving only the network field intact.

**Attribute:**
clu_bitshift
**Fullname:**
Cluster bitshift
**Attribute Description:**
The number of bits to shift right the result of (pointcode & clu_bitmask) to get the network+cluster value.

**Attribute:**
net_bitshift
**Fullname:**
Network bitshift
**Attribute Description:**
The number of bits to shift right the result of (pointcode & net_bitmask) to get the network value.

/* Same for alias_opc2 thru alias_opc15 */

**Attribute:**
alias_opc1
**Fullname:**

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Alias Point code

**Attribute Description:**

Alias Point Code 1; can be partial key to RLlab7_pci (with dpc + network) and to RLlab7prt (with dpc + network + cic).

**Attribute:**

sls_expansion

**Fullname:**

SLS expansion

**Attribute Description:**

This attribute will indicate whether or not SLS expansion is enabled. If set to DBYES, SLS expansion is enabled, requiring 8-bit SLS code. If set to DBNO (the default), SLS expansion is disabled, requiring usage of existing 5-bit SLS code.

**Attribute:**

sufflnkprt

**Fullname:**

Sufficient links percentage.

**Attribute Description:**

Contains the value for the percentage of signaling links that must be made accessible before phase one of the MTP restart can be considered completed.

**Attribute:**

suffrteprt

**Fullname:**

Sufficient routes percentage.

**Attribute Description:**

Contains the value for the percentage of signaling routes (received TRAs) that must be made accessible before phase one of the MTP restart can be considered completed.

**Attribute:**

restart_opt

**Fullname:**

Restart option.

**Attribute Description:**

Indicates which restart method is to be employed during a local restart condition (ie: full GSM initialization, PSU duplex recovery).

**Attribute:**

gsmtype

**Fullname:**

global switching module type

**Attribute Description:**

Indicates the type of SM in terms of the type of CCS messaging

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supported on the SM. The value of this attribute is one of the following:

1. CCISLANDGSM - The SM is a GSM that supports CCS messaging for trunks and TCAP services on the SM but support of such messaging for trunks and TCAP services on other non-global SM's is not provisioned on the SM.
2. CCHOSTGSM - The SM is a GSM which supports sending and receiving of CCS messages for non-global SM's.

**Defines:**

"db/DMdpc.h",
"db/DMaliasopc.h"

# GTT_0DPC

## 1. Description

This relation provides for SCCP a mapping from a translation group and address digits to its corresponding psn_index. The psn_index points to a dpc, ssn, and network number.

This relation contains translation group and address digit combinations for translation groups that range from 0 to 31. See RLgtt_1dpc.G for translations groups 32 to 63.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 251000 |
| expected number of tuples | 40 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCgtt_dpc |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| foldtype | DBGC31 |
| linear | DBYES |

## 3. Field Layout

```
GTT_0DPC    relid = 2404  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     psn_index   DMUNS12      (ushort: 12)
     dig1        DMUNS4HEX    (ushort: 4)     <--- key
     fds_ind     DMUNS7       (ushort: 7)     <--- key
     tran_gp     DMUNS5       (ushort: 5)     <--- key
     dig2        DMUNS4HEX    (ushort: 4)     <--- key
     dig3        DMUNS4HEX    (ushort: 4)     <--- key
     dig4        DMUNS4HEX    (ushort: 4)     <--- key
     dig5        DMUNS4HEX    (ushort: 4)     <--- key
     dig6        DMUNS4HEX    (ushort: 4)     <--- key
     dig7        DMUNS4HEX    (ushort: 4)     <--- key
     dig8        DMUNS4HEX    (ushort: 4)     <--- key
     dig9        DMUNS4HEX    (ushort: 4)     <--- key
     dig10       DMUNS4HEX    (ushort: 4)     <--- key
         User, Compacted and Stored Tuple Layout   GTT_0DPC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                         |       |             |         |       |
  0 |       psn_index         |  dig1 |   fds_ind   | tran_gp |  dig2 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
  4 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |  dig8 |  dig9 | dig10 |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLgtt_0dpc

### Relation Description

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Signaling Connection Control Part (SCCP) Global Title Translation Function mapping to a DPC / SSN / Network Number

This relation is used by SCCP Global Title Translation to map an address string from the incoming message to an end destination stored as a PSN_INDEX. This relation contains the digit strings for the SCCP Translation Groups that are within the range 0 thru 31.

**Attribute: tran_gp**

**Fullname:** SCCP Translation Group

**Attribute Description** This attribute is a way to map from an incoming message requesting a service to that particular translation group. This relation maps translation groups that are in the range 0 thru 31.

**Attribute: fds_ind**

**Fullname:** SCCP Fixed Digit String Index

**Attribute Description** This attribute maps an index to a fixed digit string that is the first part of the address string.

**Attribute: dig1**

**Fullname:** First Address Digit

**Attribute Description** This attribute specifies the first digit in the string to be used while doing global title translation.

**Attribute: dig2**

**Fullname:** Second Address Digit

**Attribute Description** This attribute specifies the second digit in the string to be used while doing global title translation.

**Attribute: dig3**

**Fullname:** Third Address Digit

**Attribute Description** This attribute specifies the third digit in the string to be used while doing global title translation.

**Attribute: dig4**

**Fullname:** Fourth Address Digit

**Attribute Description** This attribute specifies the fourth digit in the string to be used while doing global title translation.

**Attribute: dig5**

**Fullname:** Fifth Address Digit

**Attribute Description** This attribute specifies the fifth digit in the string to be used while doing global title translation.

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**Attribute: dig6**

**Fullname:** Sixth Address Digit

**Attribute Description** This attribute specifies the sixth digit in the string to be used while doing global title translation.

**Attribute: dig7**

**Fullname:** Seventh Address Digit

**Attribute Description** This attribute specifies the seventh digit in the string to be used while doing global title translation.

**Attribute: dig8**

**Fullname:** Eigth Address Digit

**Attribute Description** This attribute specifies the eigth digit in the string to be used while doing global title translation.

**Attribute: dig9**

**Fullname:** Ninth Address Digit

**Attribute Description** This attribute specifies the ninth digit in the string to be used while doing global title translation.

**Attribute: dig10**

**Fullname:** Tenth Address Digit

**Attribute Description** This attribute specifies the tenth digit in the string to be used while doing global title translation.

**Attribute: psn_index**

**Fullname:** Point Code / Subsystem Number / Network Number Index

**Attribute Description** This attribute is a mapping from an index to a point code / subystem number / network number.

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# GTT_1DPC

## 1. Description

This relation provides for SCCP a mapping from a translation group and address digits to its corresponding psn_index. The psn_index points to a dpc, ssn, and network number.

This relation contains translation group and address digit combinations for translation groups that range from 32 to 63. See RLgtt_0dpc.G for translations groups 0 to 31.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 251000 |
| expected number of tuples | 40 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCgtt_dpc |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| foldtype | DBGC31 |
| linear | DBYES |

## 3. Field Layout

```
GTT_1DPC    relid = 2405  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     psn_index   DMUNS12      (ushort: 12)
     dig1        DMUNS4HEX    (ushort: 4)     <--- key
     fds_ind     DMUNS7       (ushort: 7)     <--- key
     tran_gp     DMUNS5       (ushort: 5)     <--- key
     dig2        DMUNS4HEX    (ushort: 4)     <--- key
     dig3        DMUNS4HEX    (ushort: 4)     <--- key
     dig4        DMUNS4HEX    (ushort: 4)     <--- key
     dig5        DMUNS4HEX    (ushort: 4)     <--- key
     dig6        DMUNS4HEX    (ushort: 4)     <--- key
     dig7        DMUNS4HEX    (ushort: 4)     <--- key
     dig8        DMUNS4HEX    (ushort: 4)     <--- key
     dig9        DMUNS4HEX    (ushort: 4)     <--- key
     dig10       DMUNS4HEX    (ushort: 4)     <--- key
         User, Compacted and Stored Tuple Layout   GTT_1DPC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                         |       |             |         |       |
  0 |       psn_index         |  dig1 |   fds_ind   | tran_gp |  dig2 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
  4 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |  dig8 |  dig9 | dig10 |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLgtt_1dpc

### Relation Description

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Signaling Connection Control Part (SCCP) Global Title Translation Function mapping to a DPC / SSN / Network Number

This relation is used by SCCP Global Title Translation to map an address string from the incoming message to an end destination stored as a PSN_INDEX. This relation contains the digit strings for the SCCP Translation Groups that are within the range 32 thru 63.

**Attribute: tran_gp**

**Fullname:** SCCP Translation Group

**Attribute Description** This attribute is a way to map from an incoming message requesting a service to that particular translation group. This is a relative mapping. For this relation, RLgtt_1dpc, the value of tran_gp must be adjusted by 32 to obtain the true value for the translation group.

**Attribute: fds_ind**

**Fullname:** SCCP Fixed Digit String Index

**Attribute Description** This attribute maps an index to a fixed digit string that is the first part of the address string.

**Attribute: dig1**

**Fullname:** First Address Digit

**Attribute Description** This attribute specifies the first digit in the string to be used while doing global title translation.

**Attribute: dig2**

**Fullname:** Second Address Digit

**Attribute Description** This attribute specifies the second digit in the string to be used while doing global title translation.

**Attribute: dig3**

**Fullname:** Third Address Digit

**Attribute Description** This attribute specifies the third digit in the string to be used while doing global title translation.

**Attribute: dig4**

**Fullname:** Fourth Address Digit

**Attribute Description** This attribute specifies the fourth digit in the string to be used while doing global title translation.

**Attribute: dig5**

**Fullname:** Fifth Address Digit

**Attribute Description** This attribute specifies the fifth digit in the string to be used while doing global title translation.

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**Attribute: dig6**

**Fullname:** Sixth Address Digit

**Attribute Description** This attribute specifies the sixth digit in the string to be used while doing global title translation.

**Attribute: dig7**

**Fullname:** Seventh Address Digit

**Attribute Description** This attribute specifies the seventh digit in the string to be used while doing global title translation.

**Attribute: dig8**

**Fullname:** Eigth Address Digit

**Attribute Description** This attribute specifies the eigth digit in the string to be used while doing global title translation.

**Attribute: dig9**

**Fullname:** Ninth Address Digit

**Attribute Description** This attribute specifies the ninth digit in the string to be used while doing global title translation.

**Attribute: dig10**

**Fullname:** Tenth Address Digit

**Attribute Description** This attribute specifies the tenth digit in the string to be used while doing global title translation.

**Attribute: psn_index**

**Fullname:** Point Code / Subsystem Number / Network Number Index

**Attribute Description** This attribute is a mapping from an index to a point code / subystem number / network number.

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# GTT_MASK

## 1. Description

This relation provides for SCCP information about the GTT Address Digits.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 64 |
| expected number of tuples | 4 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCgtt_mask |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
GTT_MASK    relid = 2406  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     num_fds     DMUNS7       (ushort: 7)
     tran_gp     DMUNS6       (ushort: 6)     <--- key
 (a) num_fix     DMUNS3       (ushort: 3)
     num_req     DMUNS4       (ushort: 4)
     num_opt     DMUNS4       (ushort: 4)
 (b) str_mtch    DMSTR_MTCH   (enum: 2)
         User, Compacted and Stored Tuple Layout   GTT_MASK
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |           |     |       |       |   |           |
  0 |   num_fds     |  tran_gp  |  a  |num_req|num_opt| b |***********|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLgtt_mask

**Relation Description**
SCCP Global Title Address Digits Mask

This relation specifies the format expected of the address digits received in the incoming SCCP message.

**Attribute: tran_gp**

**Fullname:** SCCP Global Title Translation Group

**Attribute Description** This attribute specifies the translation group for a particular service.

**Attribute: num_fix**

**Fullname:** Number of Fixed Address Digits

**Attribute Description** This attribute specifies the part of minimal number of digits in the incoming SCCP message on which Global Title Translation will be performed.

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**Attribute: num_req**

**Fullname:** Number of Required (Primary) Address Digits

**Attribute Description** This attribute specifies the number of required (primary) digits. This count will be used if more address digits are received than the total number of address digits that was expected.

**Attribute: num_opt**

**Fullname:** Number of Optional (Secondary) Address Digits

**Attribute Description** This attribute specifies the number of optional (secondary) digits that could be in the incoming SCCP message.

**Attribute: num_fds**

**Fullname:** Number of Fixed Digits Strings

**Attribute Description** This attribute specifies the number of currently populated fixed digit strings in this translation group.

**Attribute: str_mtch**

**Fullname:** How to Translate GTT digit strings

**Attribute Description** This attribute indicates how the GTT Digit strings should be initially matched using: Full String, Partial String or Variable string compares.

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# GTT

## 1. Description

North American CCS7 (CCSNA7) Signaling Connection Control Part (SCCP) Global Title Translations on dialed digits. This relation is used by the SCCP layer in the Signaling System #7 protocol for direct signaling messages.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 5000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
GTT          relid = 2403  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     digits       DMUNL27       (ulong: 27)      <--- key
     tn_indx      DMUNS5        (ushort: 5)
         User, Compacted and Stored Tuple Layout    GTT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                 |         |
  0 |                        digits                   | tn_indx |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLgtt

**Relation Description**
North American CCS7 (CCSNA7) Signaling Connection Control Part (SCCP) Global Title Translations on dialed digits

This relation is used by SCCP layer in the Signaling System #7 protocol for direct signaling messages.

**Attribute: digits**

**Fullname:** Dialed digits to be translated

**Attribute Description** This attribute will be populated with the specified digits (up to 7) on which the global title translation is to be done, followed by the number of digits. For example, for the digits 800777, the number that is populated in this attribute is 8007776. For the digits, 22222, the attribute is populated with 222225. For the digits 0222, the attribute should be populated with 02224. The range of the input is 0 - 9999999 while the range of the stored attribute is 01 - 99999997.

The number of digits were made variable (up to 7) to allow various countries to use SCCP. Each country may require that the global title translation be done on a different number of digits.

For the UK, the number of digits that the translation must be done on is 6. Other countries in the

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future may require a different number of digits for their global title translations.

For Spain, the number of digits that the translation must be done on is 6. Even though the flexibility is given for a variable number up to 7, only UK and Spain use this attribute currently. It is fixed at 6 for both of these.

**Attribute: tn_indx**

**Fullname:** Translation number index for dialed digits

**Attribute Description** This attribute is the translation number index identifying the Destination Point Code (DPC) and the SCCP subsystem number (SSN) that are the result of a SCCP global title translation on the dialed digits. This index will be one of the indices in the RLtn_ssn relation.

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## 2.9 RELATIONS: H

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# HCN_RTS

## 1. Description

Translation table from HIM DFI channel circuit name to RSM NCT TS.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 460 |
| expected tuples in relation | 174 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | AUTO |
| density | 37 |

## 3. Field Layout

```
HCN_RTS     relid = 431   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     nctts       DMSHORT      (short)
         User and Compacted Tuple Layout    HCN_RTS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |           himcktname          |*******************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             nctts             |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     nctts       DMSHORT      (short)
           Stored Tuple Layout      HCN_RTS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             nctts             |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLhcn_rts

**Relation Description**
Translation table from HIM DFI channel circuit name to RSM NCT time slot number.

This relation is the inverse of the RLrts_hcn relation. Whenever the data in RLrts_hcn or RLhcn_rts is modified, the data in the other relation must also be modified. The population rules for RLhcn_rts are identical to those for RLrts_hcn.

**Attribute: himcktname**

**Fullname:** HIM DFI channel circuit name

**Attribute Description** The himcktname attribute indicates the associated HIM DFI channel circuit

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name. Only the tuples for equipped T1 time slots should be in the relation.

**Attribute: nctts**

**Fullname:** RDM NCT time slot number

**Attribute Description** The nctts attribute corresponds to an NCT time slot in the RSM which is associated with a T1 transmission line.

**Defines:** "db/DMcircuit.h"

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# HDFI_CON

## 1. Description

Relation that gives the connection of DFI's between a HSM and its associated RSM. There is one tuple for every link connecting an HSM and an RSM in the *5ESS*®-2000 switch complex.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 120 |
| expected tuples | 9 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
HDFI_CON    relid = 587   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     hdltu       DMUNITNO     (ushort: 7)     <--- key, not stored
     hdfi        DMUNS5       (ushort: 5)     <--- key, not stored
 (a) hfac        DMUNS1       (ushort: 1)     <--- key, not stored
     rsm         DMMODULE     (ushort: 8)
     rdltu       DMUNITNO     (ushort: 7)
 (b) rfac        DMUNS1       (ushort: 1)
     rdfi        DMUNS5       (ushort: 5)
         User and Compacted Tuple Layout   HDFI_CON
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |             | |         | |                   |
  0 |      hsm      |    hdltu    |*|   hdfi  |a|*******************|
    |---------------+---------------+---------------+---------------|
    |               |             | |         |                     |
  4 |      rsm      |    rdltu    |b|   rdfi  |*********************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     rsm         DMMODULE     (ushort: 8)
     rdltu       DMUNITNO     (ushort: 7)
 (a) rfac        DMUNS1       (ushort: 1)
     rdfi        DMUNS5       (ushort: 5)
           Stored Tuple Layout     HDFI_CON
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |             | |         |                     |
  0 |      rsm      |    rdltu    |a|   rdfi  |*********************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLhdfi_con

**Relation Description**
Host digital facility interface connections.

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Relation that gives the connection of DFI's between a HSM and its associated RSM. There is one tuple for every link connecting an HSM and an RSM in the *5ESS*®-2000 switch complex.

This relation directly reflects the office-engineered connection between host and remote DFIs. Only tuples for equipped RDFI/RDFI2s and HDFI/HDFI2s should be in the relation. The relation RLHDFI_CON and the relation RLRDFI_CON contain similar data: RLHDFI_CON keys from the HSM and RLRDFI_CON keys from the RSM. A change in one of these relations requires the corresponding change in the other relation.

**Attribute: hsm**

**Fullname:** Host Switching Module

**Attribute Description** SM number of HSM (1-192).

**Attribute: hdltu**

**Fullname:** Host Digital Line & Trunk Unit

**Attribute Description** DLTU and DLTU2 number at HSM end (0-5).

**Attribute: hdfi**

**Fullname:** Host Digital Facility Interface

**Attribute Description** HDFI/HDFI2 number at HSM end (1-10 for DLTU/.DLTU2, stored as 0-9).

**Attribute: hfac**

**Fullname:** Host Facility

**Attribute Description** Relative facility number on a host SM end host DFI (0) or HDFI2 (0-1).

**Attribute: rsm**

**Fullname:** Remote Switching Module

**Attribute Description** SM number of RSM (1-192).

**Attribute: rdltu**

**Fullname:** Remote Digital Line and Trunk Unit

**Attribute Description** DLTU, DLUT2

**Attribute: rdfi**

**Fullname:** Remote Digital Facility Interface

**Attribute Description** RDFI/RDFI2 number at RSM end (1-10 for DLTU/DLTU2, stored as 0-9).

**Attribute: rfac**

**Fullname:** Remote Facility

**Attribute Description** Relative facility number on a RSM end RDFI (0) or RDFI2 (0-1).

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# HI_CF

## 1. Description

Home intercom feature constructed feature options - used in SM. These constructed features can only be assigned to analog terminals.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |
| l1 length of subkey 1 | 3 |
| p1 position of key 1 | 6 |
| l2 length of subkey 2 | 1 |
| p2 position of key 2 | 10 |
| l3 length of subkey 3 | 1 |
| p3 position of key 3 | 9 |
| l4 length of subkey 4 | 5 |
| p4 position of key 4 | 11 |
| ks key store | DBNO |
| ignore key bits | 0-5 |

## 3. Field Layout

```
HI_CF       relid = 1346  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     actvn       DMMC_ACTYP   (enum: 3)
  (a) dctvn       DMMC_DCTYP   (enum: 2)
  (b) int_cd_dial  DMBOOL       (enum: 1)
  (c) sel_int_dial  DMBOOL       (enum: 1)
  (d) sel_call_xfer  DMBOOL       (enum: 1)
  (e) priv_conf   DMBOOL       (enum: 1)
  (f) dial_hold   DMBOOL       (enum: 1)
  (g) remind_ring  DMBOOL       (enum: 1)
  (h) cw_enable   DMBOOL       (enum: 1)
  (i) cf_1a       DMBOOL       (enum: 1)
  (j) mdnl_ring1a  DMBOOL       (enum: 1)
         User and Compacted Tuple Layout  HI_CF
     |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
     |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
     |---------------+---------------+---------------+---------------|
     |                               |                               |
   0 |            feat_id            |*******************************|
     |---------------+---------------+---------------+---------------|
     |     |   | | | | | | | | |                                       |
   4 |actvn| a |b|c|d|e|f|g|h|i|j|***********************************|
     |---------------+---------------+---------------+---------------|
        ( 8 bytes )
     actvn       DMMC_ACTYP   (enum: 3)
  (a) dctvn       DMMC_DCTYP   (enum: 2)
  (b) int_cd_dial  DMBOOL       (enum: 1)
  (c) sel_int_dial  DMBOOL       (enum: 1)
  (d) sel_call_xfer  DMBOOL       (enum: 1)
```

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```
(e) priv_conf   DMBOOL       (enum: 1)
(f) dial_hold   DMBOOL       (enum: 1)
(g) remind_ring  DMBOOL       (enum: 1)
(h) cw_enable   DMBOOL       (enum: 1)
(i) cf_1a       DMBOOL       (enum: 1)
(j) mdnl_ring1a  DMBOOL       (enum: 1)
          Stored Tuple Layout    HI_CF
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |     |   | | | | | | | | |                                     |
 0 |actvn| a |b|c|d|e|f|g|h|i|j|*************************************|
   |---------------+---------------+---------------+---------------|
      ( 2 bytes )
```

## 4. Population Rules for RLhi_cf

**Relation Description**
This relation provides the home intercom/single line variety package constructed feature information used in the SM.

The constructed feature can be assigned only to ANALOG lines with class of service FC_INDIV. This relation provides the home intercom/single line variety package constructed feature information used in the SM. The constructed feature can be assigned only to unshared ANALOG lines with class of service FC_INDIV.

**Attribute: feat_id**

**Fullname:** feature identification

**Attribute Description** A BRCS constructed feature ID consists of a modular feature type and a unique identifier. The key to this relation is just a unique identifier. The modular feature type is always MFHI, an enumeration of type DMftype, and thus is not needed as part of the key to this relation. For the home intercom/single line variety package constructed feature, the modular feature type is MFHI, which is an enumeration of type DMftype. The feature ID must have a class of FACBRCS and a subclass of SCL_FEAT.

**Attribute: actvn**

**Fullname:** activation

**Attribute Description** Method of feature activation. This is an enumeration of type DMmc_actyp. This feature is not able to be activated (customer cannot activate using a feature button or dialed code) so that actvn always has the value ACTNONE. Future generics may allow this feature to be activated via dialed codes or feature buttons.

**Attribute: dctvn**

**Fullname:** deactivation

**Attribute Description** Method of feature deactivation. This is an enumeration of type DMmc_dctyp. This feature is not able to be deactivated (customer cannot deactivate using a dialed code or feature button) so that dctvn always has the value DCTNONE. Future generics may allow this feature to be activated via dialed codes or feature buttons.

**Attribute: int_cd_dial**

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**Fullname:** intercom code dialing option

**Attribute Description** Indicates if intercom code dialing is allowed. This is an enumeration of type DMbool. If the value of int_cd_dial is DBYES, the subscriber will be allowed to invoke ringing pattern B by use of a dialed code. If the value is DBNO, the subscriber must dial his/her own DN to invoke ringing pattern B.

**Attribute: sel_int_dial**

**Fullname:** selective intercom dialing option

**Attribute Description** Indicates if selective intercom dialing is allowed: This is an enumeration of type DMbool. If the value of sel_int_dial is DBYES, the subscriber may invoke any one of four ringing patterns (A, B, C, or G) by dialing an appropriate dial code. If the value is DBNO, the subscriber can only invoke ringing pattern B for a HI/SVP call, either by using the intercom code dialing option (if it is selected), or by dialing his/her own DN.

**Attribute: sel_call_xfer**

**Fullname:** selective call transfer option

**Attribute Description** Indicates if selective call transfer is allowed. This is an enumeration of type DMbool. If the value of sel_call_xfer is DBYES, the subscriber may place an outside call on hold by flashing, then invoke any one of four ringing patterns (A, B, C, or G) by dialing an appropriate dial code. The subscriber can have sel_call_xfer with or without the private consult. Private consult gives subscribers the ability to talk privately before one user retrieves the outside. If the subscribers have sel_call_xfer with private consult the subscriber must flash to retrieve the call. If the subscribers do not have private consult the subscriber will automatically be connected to outside call.
This option allows the subscriber to flash: flash privilege is also allowed if dial_hold is DBYES and if no other flash feature is on the line.
If the value of sel_call_xfer is DBNO, and the value of dial_hold is DBYES, the subscriber may flash, but the dial codes for the ringing patterns are invalid.
If the value of sel_call_xfer is DBNO, and the value of dial_hold is DBNO, the subscriber may not flash.

**Attribute: priv_conf**

**Fullname:** private conference option

**Attribute Description** Indicates if private conference is allowed when selective call transfer is invoked. This is an enumeration of type DMbool. This option applies only when the selective call transfer option is invoked, and controls the way in which an outside party is picked up to resume talking after being put on hold, and after the terminals on the Hi/SVP line have been rung.
If the value of priv_conf is DBLYES, the subscriber must flash to pick the outside party which is on hold.
If the value of priv_conf is DBNO, the outside party is automatically picked up when the first HI/AVP terminal goes off-hook during the HI/SVP call.

**Attribute: dial_hold**

**Fullname:** dialable hold option

**Attribute Description** Indicates if dialable hold is allowed. This is a DMbool enumeration. If the value of dial_hold is DBYES, the subscriber may flash to put an outside call on hold, hang up, then

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resume talking to the outside party from another terminal on the same line.
This option allows the subscriber to flash: flash privilege is also allowed if sel_call_xfer is DBYES and if there is no other flash feature on the line.
If the value of sel_call_xfer is DBNO, and the value of dial_hold is DBNO, the subscriber may not flash.

**Attribute: remind_ring**

**Fullname:** reminder ring for dialable hold option

**Attribute Description** Indicates if a reminder ring will be provided for the dialable hold option. This is an enumeration of type DMbool. This option applies only when the dialable hold option is invoked. If the value of remind_ring is DBYES, a reminder ring will be applied to the subscriber's line once every minute until the subscriber goes off-hook, after putting an outside call on hold.

The value of remind_ring must always be DBNO to comply with the FSD. This attribute is being included to facilitate future development.

**Attribute: cw_enable**

**Fullname:** enable call waiting during home intercom calls

**Attribute Description** Indicates if a call waiting tone will be heard during a home intercom call that does not involve an outside party (pure home intercom call). This is a DMbool enumeration. This option does not provide the call waiting feature itself, it only allows the call waiting tone to be heard during the HI/SVP call.

If the value of cw_enable is DBYES, the subscriber will hear the call waiting tones during the HI/SVP call, and may flash to pick up the call which is waiting.

If the value is DBNO, call waiting will be disabled during the HI/SVP call, the subscriber will not hear the call waiting tone, and the outside caller will receive busy treatment.

The value of cw_enable must always be DBNO to comply with the FSD. This attribute is being included to facilitate future development.

**Attribute: cf_1a**

**Fullname:** enable call forwarding during home intercom calls

**Attribute Description** If the value of cf_1a is DBYES and call forwarding is activated and the home intercom subscriber dials own DN, call will be forwarded to the forward_to DN. If the value is DBNO the call will not be forwarded. This option is added to allow customer to remain 1A transparent during call forwarding active.

**Attribute: mdnl_ring1a**

**Fullname:** mdnl_ring1a

**Attribute Description** Indicates whether the 1AESS ringing pattern for the Master DN in an MDNL call will be used are the *5ESS*®-2000 switch version of the ringing pattern.
If the attribute mdnl_ring1a is set to DBYES HI/SVP calls to the master DN should ring with pattern B and calls to dependent DNs will ringing with the MDNL dependent DN pattern. If mdnl_ring1a is DBNO then HI/SVP calls to the Master and dependent DNs should ring with the MDNL pattern associated with the dialed DN.

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# HMRSMCL

## 1. Description

This relation provides RSM communication link information for every host facility connected to a DLTU/2 or DNU-S. For control links, the information is duplicated for tuples keyed by host facility name or control circuit name.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 120 |
| expected tuples | 9 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
HMRSMCL     relid = 432   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     ckt_id       DMCIRCUIT     (ushort)      <--- key
     type         DMCKTTYPE     (enum)
     chdb_num     DMTSITS       (ushort)
     mchdb_num    DMTSITS       (ushort)
     mckt_id      DMCIRCUIT     (ushort)
     tsdb_num     DMCTS9        (ushort: 9)
     offset       DMRSMNO       (ushort: 5)
 (a) comm_link    DMBOOL        (enum: 1)
     rsm_num      DMMODULE      (ushort: 8)
         User, Compacted and Stored Tuple Layout    HMRSMCL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              ckt_id           |               type            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             chdb_num          |            mchdb_num          |
    |---------------+---------------+---------------+---------------|
    |                               |                   |         | | |
  8 |             mckt_id           |     tsdb_num      |  offset |a|*|
    |---------------+---------------+---------------+---------------|
    |                 |                                             |
 12 |     rsm_num     |*********************************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population rules for RLhmrsmcl

**Relation Description**

HIM and RSM communication link
Provides RSM communication link information for every Host Transport.

**Attribute:**

ckt_id

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**Fullname:**
circuit name of a Host Transport circuit or CTS circuit.
**Attribute Description:**
It is equal to the internal circuit name of a Host Transport circuit or it child CTS circuit for umbilicals carrying clnks.

**Attribute:**
type
**Fullname:**
circuit type of the Host Transport circuit
**Attribute Description:**
It is equal to the circuit type as defined in RLCKTDATA of the circuit represented by the attribute ckt_id. With the introduction of the RSM on DNU-S feature the control circuits on the Host Facility are also populated in this relation. The tuples will be populated with the identical data of the parent host transport with the exception of mckt_id which will contain the mate control circuit. The rationale for doing this is quicker access time to this data during clink management.

**Attribute:**
comm_link
**Fullname:**
RSM communication link Host Transport indication.
**Attribute Description:**
This field is of type DMBOOL and will take values of DBYES if the keyed Host Transport may carry an RSM control time slot. Otherwise it will be DBNO.
For DLTU host transports on SM-2000's,
the first two CTS must not be on the same DLTU2 fuse group.
HDFIs are assigned to fuse groups on the DLTU2 as follows:

| HDFI Number: | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| Fuse Group: | A | B | D | C | A | B | D | C | A | B |

where the Fuse Groups are designated A, B, C and D.
For DNU Hosted CTS links. The CTS pairs (1<->2 and 3<->4) must not be on the same STS. Also, CTS mates (1<->3 and 2<->4) must not be on the same STS. A 4-CTS rsm can be equipped using 2 STS's if they are assigned as follows:

| STS X | STS Y |
|---|---|
| CTS 1 | CTS 2 |
| CTS 4 | CTS 3 |

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**Attribute:**
offset
**Fullname:**
offset in phase protected memory for manual isolation of RSM
**Attribute Description:**
This attribute will contain the offset of the rsm_num as indicated by the phase protected memory bits. The range of possible values depends on the type of HSM present.
If this is a HSM, the values are 1 thru 5.
If this is a HSM-2000, the values are 1 thru 30.
This value represents the bit offset for an RSM's isolation state in phase protected memory.
Gaps are allowed in this numbering spectrum.
For example, the first RSM to be populated could have an offset of 1, the next one an offset of 2, and so on up to the maximum (5 or 30). Now suppose you degrow the 2nd RSM (the one with the offset of 2), leaving populated offsets of 1, 3, 4, etc. If you were to grow another RSM again, offset 2 would be available for it.
Once the offset has been established for an RSM, then any addition of more umbilicals to that RSM will have the same established offset. Finally, this attribute matches the attribute offset in the AM relation db/RLmodatt.G.

**Attribute:**
chdb_num
**Fullname:**
channel data block number
**Attribute Description:**
This field takes a value from 0 to 31 for HSMs, and PIDB-determined values for HSM-2000s.
HFACs with comm_link equal to DBNO will have chdb_num equal to 0. Those HFACs with comm_link equal to DBYES the choice of value is made as follows:

For HSMs:
If the HFAC has a PIDB greater than or equal to 16 (the PIDB field in RLCKTDATA) and its stuff code (the DBCHAN field in RLCKTDATA) is not zero, then the channel number must be one of the following values {2,4,6,8,10,12,14}. If the HFAC has a PIDB less than 16 and its stuff code is not equal to zero, then the channel number must be one of the following values {1,3,5,7,9,11,13,15}. If the HFAC has a pidb greater than or equal to 16 and its stuff code is zero, then the channel must be one of the following values {16,18,20,22,24,26,28,30}.
Finally, if the HFAC has a PIDB less than 16 and its stuff code is zero, then the channel must be one of the following values {17,19,21,23,25,27,29,31}.
In addition, the channel selected should not be associated with any other PCHFAC in the relation. The channel allocated to these PCHFACs will be permanently unavailable to any other

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unit in the office.
If the PCHFAC interfaces to ITU-TS/CEPT 30 channel facilities:
For RSMs remoted on this type of facility, the PCHFAC does not employ any stuff code. The time slot mapping, therefore, is little more straightforward. If the PCHFAC has a PIDB greater than or equal to 16, then the channel must be one of the following values {16,18,20,22,24,26,28,30}. If the PCHFAC has a PIDB less than 16, then the channel must be one of the following values {17,19,21,23,25,27,29,31}. These numbers imply that 'dbchan' is always equal to 0. The channel should not be associated with any other PCHFAC in the relation.
For HSM-2000s (DLTU/2 only):

The channel depends solely on the HFAC's PIDB, which includes the TSI slice, link, and relative PIDB termination on the DX. This attribute should be populated with the TSI time-slot that maps to time-slot 1 on this PIDB (PIDB time-slot 0 is skipped due to hard-coded SM-2000 stuffing pattern of 0).
For both HSM and HSM-2000 (DLTU/2):
the channel selected should not be associated with any other HFAC in the relation. The channel allocated to these HFACs will be permanently unavailable to any other unit in the office.

For HSM-2000's (DNU-S only):
The channel depends solely on the PCT link number and DS1SFAC's vpidb. This channel should not be associated with any other DS1SFAC in this relation.

**Attribute:**
mchdb_num
**Fullname:**
mate channel data block number
**Attribute Description:**
DLTU/2 only:
This field takes a value from 0 to 31 for SMs, and PIDB-determined values for HSM-2000.
This field takes a value from 0 to 31 for SMs, and PIDB-determined values for HSM-2000. For a 2 CTS link RSM this field is 0. For a 4CTS link this field is the same as the field chdb_num of the mate PCHFAC.
PCHFAC mates are defined by their links to PCT1FACs in the RSM. By definition, T1FAC1 and T1FAC3 are assigned as mates because they share a common CTS. Similarly, T1FAC2 and T1FAC4 are mates. The mate of an HFAC, then, is found by determining the HFAC-T1FAC links: HFAC mates are linked to T1FAC mates. This implies that HFACs are equipped in pairs. In fact they are equipped in sets of four, one set for each equipped RSM on that HSM.
DNU-S only:

This is the same as the field chdb. It represents the chdb for the mate DS1SFAC. A mate is similar to the description seen here for HFACs

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**Attribute:**
tsdb_num
**Fullname:**
HSM TSI Network Time-Slot number
**Attribute Description:**
This field contains the HSM TSI network time-slot number carrying the RSM control time-slot which travels on this Host Transport.

**Attribute:**
mckt_id
**Fullname:**
Mate Host Transport circuit name or mate control circuit.
**Attribute Description:**
This field contains the circuit name of the host transport or control circuit which connects to the mate channel contained in the mchdb_num attribute if it exists.

**Attribute:**
rsm_num
**Fullname:**
RSM number
**Attribute Description:**
This field contains the number of the RSM whose control time slot travels on this Host Transport.

**Defines:**
"db/DMcircuit.h"

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# HOMECALL

## 1. Description

Contains country-direct 800 numbers callers should call when they are not allowed to make home country calls by the issuer of their ICCV card.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
HOMECALL    relid = 2083  DBSTATIC   DBACC_LIN   DBPRAM    FG      NULL
     oaff1       DMUNS8       (ushort: 8)
     ctry_num    DMDN10_BCD   (struct)
         dn0         DMBCD        (ushort: 4)
         dn1         DMBCD        (ushort: 4)
         dn2         DMBCD        (ushort: 4)
         dn3         DMBCD        (ushort: 4)
         dn4         DMBCD        (ushort: 4)
         dn5         DMBCD        (ushort: 4)
         dn6         DMBCD        (ushort: 4)
         dn7         DMBCD        (ushort: 4)
         dn8         DMBCD        (ushort: 4)
         dn9         DMBCD        (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
         User, Compacted and Stored Tuple Layout   HOMECALL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                            issiddgt                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                   |           |
  4 |                    issiddgt                       |    oaff1  |
    |===============+==========  ctry_num ==========+===============|
    |       |       |       |       |       |       |       |       |
  8 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |                                       |
 12 |  dn8  |  dn9  | digcnt|***************************************|
    |===============+===============+===============+===============|
       ( 16 bytes )
```

## 4. Population Rules for RLhomecall

**Relation Description**
Home country calling numbers.

This relation holds the number to be called when an international credit card validation (ICCV) card is denied the

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ability to make home country calls.

**Attribute: issiddgt**

**Fullname:** Card Issuer Identification Number

**Attribute Description** Identifies the first 2-7 digits entered in the card issuer identification field.

**Attribute: ctry_num**

**Fullname:** Country Number

**Attribute Description** This is the number to call when home country calls are denied by this ICCV card issuer.

**Attribute: oaff1**

**Fullname:** Spare field 1

**Attribute Description** Spare for future development.

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# HS_CKT

## 1. Description

High level service circuit names.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 270 |
| expected tuples in relation | 16 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
HS_CKT      relid = 180   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     lunum       DMUNITNO     (ushort: 7)
         User, Compacted and Stored Tuple Layout HS_CKT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |                 |
  0 |            circuit            |    lunum      |*****************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLhs_ckt

**Relation Description**
High level service circuit names.

**Attribute: circuit**

**Fullname:** Circuit name.

**Attribute Description** List all high level service circuits from relation CKTDATA with attribute 'types' of PCHLSC, PCLCHLSC, and PCISHLSC.

**Attribute: lunum**

**Fullname:** line unit number.

**Attribute Description** List associated line unit (LU) and/or ISLU number.

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# HSMRSM

## 1. Description

List of RSMs remoted from this HSM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 96 |
| expected tuple | 17 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTATIC |
| trigger function for TM,SM & SI | SMhsmrsmtrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
HSMRSM      relid = 2008  DBSTATIC   DBACC_CIND  DBPRAM    LR      NULL
     rsmnum00    DMMODULE     (ushort: 8)
     rsmnum01    DMMODULE     (ushort: 8)
     rsmnum02    DMMODULE     (ushort: 8)
     rsmnum03    DMMODULE     (ushort: 8)
     rsmnum04    DMMODULE     (ushort: 8)
     rsmnum05    DMMODULE     (ushort: 8)
     rsmnum06    DMMODULE     (ushort: 8)
     rsmnum07    DMMODULE     (ushort: 8)
     rsmnum08    DMMODULE     (ushort: 8)
     rsmnum09    DMMODULE     (ushort: 8)
     rsmnum10    DMMODULE     (ushort: 8)
     rsmnum11    DMMODULE     (ushort: 8)
     rsmnum12    DMMODULE     (ushort: 8)
     rsmnum13    DMMODULE     (ushort: 8)
     rsmnum14    DMMODULE     (ushort: 8)
     rsmnum15    DMMODULE     (ushort: 8)
     rsmnum16    DMMODULE     (ushort: 8)
     rsmnum17    DMMODULE     (ushort: 8)
     rsmnum18    DMMODULE     (ushort: 8)
     rsmnum19    DMMODULE     (ushort: 8)
     rsmnum20    DMMODULE     (ushort: 8)
     rsmnum21    DMMODULE     (ushort: 8)
     rsmnum22    DMMODULE     (ushort: 8)
     rsmnum23    DMMODULE     (ushort: 8)
     rsmnum24    DMMODULE     (ushort: 8)
     rsmnum25    DMMODULE     (ushort: 8)
     rsmnum26    DMMODULE     (ushort: 8)
     rsmnum27    DMMODULE     (ushort: 8)
     rsmnum28    DMMODULE     (ushort: 8)
     rsmnum29    DMMODULE     (ushort: 8)
     rsmnum30    DMMODULE     (ushort: 8)
     cts_ev00    DMCTS8       (ushort: 8)
     cts_ev01    DMCTS8       (ushort: 8)
```

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```
cts_ev02    DMCTS8       (ushort: 8)
cts_ev03    DMCTS8       (ushort: 8)
cts_ev04    DMCTS8       (ushort: 8)
cts_ev05    DMCTS8       (ushort: 8)
cts_ev06    DMCTS8       (ushort: 8)
cts_ev07    DMCTS8       (ushort: 8)
cts_ev08    DMCTS8       (ushort: 8)
cts_ev09    DMCTS8       (ushort: 8)
cts_ev10    DMCTS8       (ushort: 8)
cts_ev11    DMCTS8       (ushort: 8)
cts_ev12    DMCTS8       (ushort: 8)
cts_ev13    DMCTS8       (ushort: 8)
cts_ev14    DMCTS8       (ushort: 8)
cts_ev15    DMCTS8       (ushort: 8)
cts_ev16    DMCTS8       (ushort: 8)
cts_ev17    DMCTS8       (ushort: 8)
cts_ev18    DMCTS8       (ushort: 8)
cts_ev19    DMCTS8       (ushort: 8)
cts_ev20    DMCTS8       (ushort: 8)
cts_ev21    DMCTS8       (ushort: 8)
cts_ev22    DMCTS8       (ushort: 8)
cts_ev23    DMCTS8       (ushort: 8)
cts_ev24    DMCTS8       (ushort: 8)
cts_ev25    DMCTS8       (ushort: 8)
cts_ev26    DMCTS8       (ushort: 8)
cts_ev27    DMCTS8       (ushort: 8)
cts_ev28    DMCTS8       (ushort: 8)
cts_ev29    DMCTS8       (ushort: 8)
cts_ev30    DMCTS8       (ushort: 8)
cts_od00    DMCTS8       (ushort: 8)
cts_od01    DMCTS8       (ushort: 8)
cts_od02    DMCTS8       (ushort: 8)
cts_od03    DMCTS8       (ushort: 8)
cts_od04    DMCTS8       (ushort: 8)
cts_od05    DMCTS8       (ushort: 8)
cts_od06    DMCTS8       (ushort: 8)
cts_od07    DMCTS8       (ushort: 8)
cts_od08    DMCTS8       (ushort: 8)
cts_od09    DMCTS8       (ushort: 8)
cts_od10    DMCTS8       (ushort: 8)
cts_od11    DMCTS8       (ushort: 8)
cts_od12    DMCTS8       (ushort: 8)
cts_od13    DMCTS8       (ushort: 8)
cts_od14    DMCTS8       (ushort: 8)
cts_od15    DMCTS8       (ushort: 8)
cts_od16    DMCTS8       (ushort: 8)
cts_od17    DMCTS8       (ushort: 8)
cts_od18    DMCTS8       (ushort: 8)
cts_od19    DMCTS8       (ushort: 8)
cts_od20    DMCTS8       (ushort: 8)
cts_od21    DMCTS8       (ushort: 8)
cts_od22    DMCTS8       (ushort: 8)
cts_od23    DMCTS8       (ushort: 8)
cts_od24    DMCTS8       (ushort: 8)
```

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```
    cts_od25    DMCTS8       (ushort: 8)
    cts_od26    DMCTS8       (ushort: 8)
    cts_od27    DMCTS8       (ushort: 8)
    cts_od28    DMCTS8       (ushort: 8)
    cts_od29    DMCTS8       (ushort: 8)
    cts_od30    DMCTS8       (ushort: 8)
        User, Compacted and Stored Tuple Layout HSMRSM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 0 |     hsmnum    |    rsmnum00   |    rsmnum01   |    rsmnum02   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 4 |    rsmnum03   |    rsmnum04   |    rsmnum05   |    rsmnum06   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 8 |    rsmnum07   |    rsmnum08   |    rsmnum09   |    rsmnum10   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
12 |    rsmnum11   |    rsmnum12   |    rsmnum13   |    rsmnum14   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
16 |    rsmnum15   |    rsmnum16   |    rsmnum17   |    rsmnum18   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
20 |    rsmnum19   |    rsmnum20   |    rsmnum21   |    rsmnum22   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
24 |    rsmnum23   |    rsmnum24   |    rsmnum25   |    rsmnum26   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
28 |    rsmnum27   |    rsmnum28   |    rsmnum29   |    rsmnum30   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
32 |    cts_ev00   |    cts_ev01   |    cts_ev02   |    cts_ev03   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
36 |    cts_ev04   |    cts_ev05   |    cts_ev06   |    cts_ev07   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
40 |    cts_ev08   |    cts_ev09   |    cts_ev10   |    cts_ev11   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
44 |    cts_ev12   |    cts_ev13   |    cts_ev14   |    cts_ev15   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
48 |    cts_ev16   |    cts_ev17   |    cts_ev18   |    cts_ev19   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
52 |    cts_ev20   |    cts_ev21   |    cts_ev22   |    cts_ev23   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
56 |    cts_ev24   |    cts_ev25   |    cts_ev26   |    cts_ev27   |
```

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```
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 60 |    cts_ev28   |    cts_ev29   |    cts_ev30   |    cts_od00   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 64 |    cts_od01   |    cts_od02   |    cts_od03   |    cts_od04   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 68 |    cts_od05   |    cts_od06   |    cts_od07   |    cts_od08   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 72 |    cts_od09   |    cts_od10   |    cts_od11   |    cts_od12   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 76 |    cts_od13   |    cts_od14   |    cts_od15   |    cts_od16   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 80 |    cts_od17   |    cts_od18   |    cts_od19   |    cts_od20   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 84 |    cts_od21   |    cts_od22   |    cts_od23   |    cts_od24   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 88 |    cts_od25   |    cts_od26   |    cts_od27   |    cts_od28   |
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
 92 |    cts_od29   |    cts_od30   |*******************************|
    |---------------+---------------+---------------+---------------|
      ( 96 bytes )
domain alHSMRSM   struct  (4 sub-attributes)
        hsmnum      .94.fake     (ushort)
        rsmnum      .95.fake     (array [ 31 ] of unsigned char )
        cts_ev      .96.fake     (array [ 31 ] of unsigned char )
        cts_od      .97.fake     (array [ 31 ] of unsigned char )

        Structure Layout      alHSMRSM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |     hsmnum    |                     rsmnum                    |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                             rsmnum                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             rsmnum                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                             rsmnum                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                             rsmnum                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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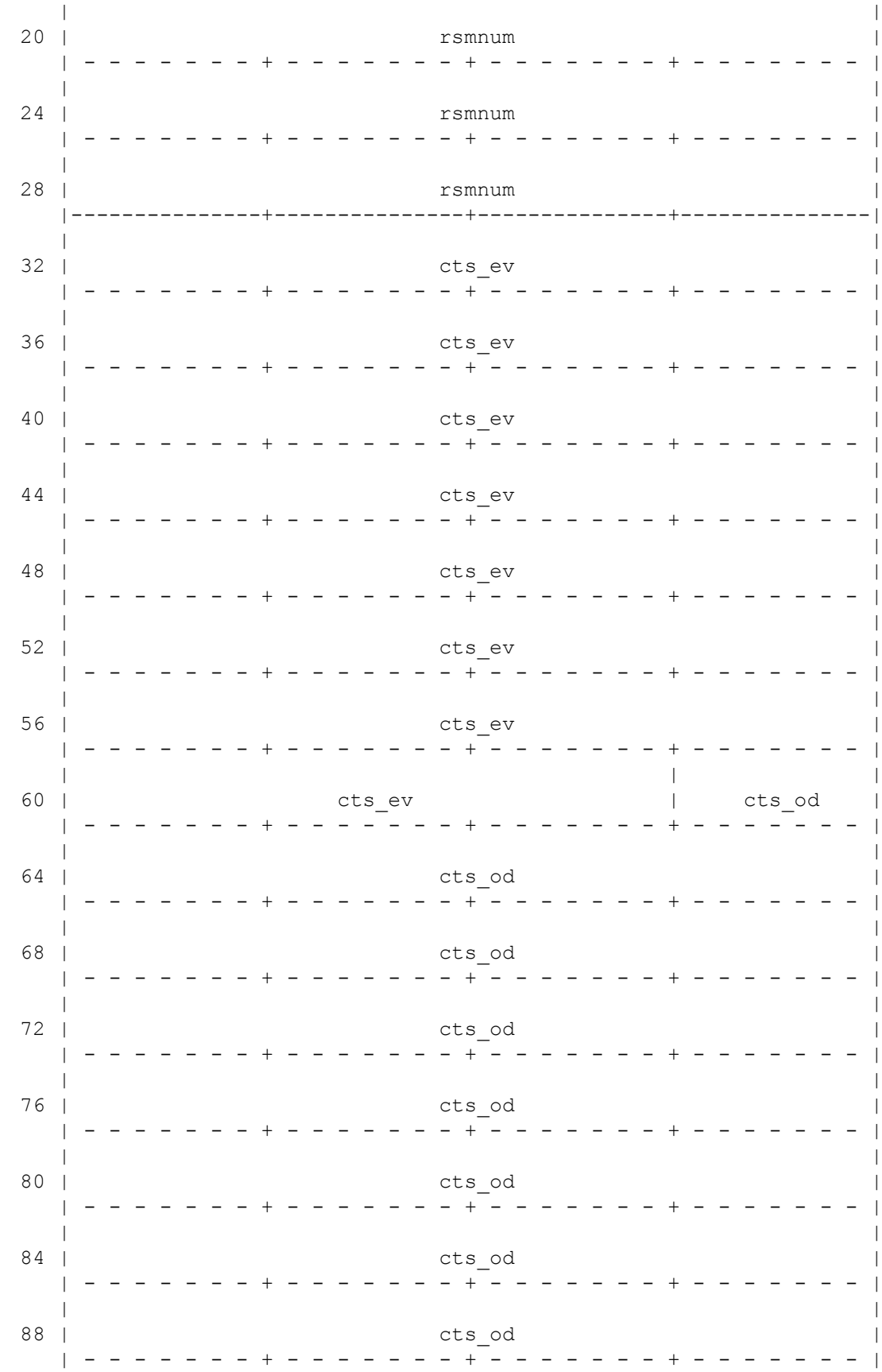


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```
    |                                |                                |
 92 |             cts_od             |********************************|
    |----------------+---------------+---------------+----------------|
       ( 96 bytes )
```

## 4. Population Rules for RLhsmrsm

**Relation Description**
Host Switching Module Remote SMs.

This relation defines all the RSMs under a given Host SM. There will be 1 tuple for each HSM. A maximum of 5 RSMs are allowed per HSM, and a maximum of 30 RSMs are allowed per HSM-2000.

**Attribute: hsmnum**

**Fullname:** Host SM number.

**Attribute Description** The SM number of the Host SM. When a RLmodatt tuple is added and the RLmodatt.imtype is SM5HIM, then RLmodatt.module is also used as the key to this relation. The valid range for this attribute is 1-192.

**Attribute: rsmnum[*]**

**Fullname:** RSM number from 0 to $SMMAXHRSM.

**Attribute Description** Each of these attributes can contain a unique RSM module number whose host is this HOSTNUM. Valid assigned values are 1-192, corresponding to a valid RSM number which is the key to a RLmodatt tuple with imtype = SM5RSM. No two rsmnumXX attributes can contain the same value, except the default value of 0. RSM number 0 is not used.

**Attribute: cts_ev[*]**

**Fullname:** Even Control Time Slots for RSMs.

**Attribute Description** Each element of this array contains the Even CTS for the corresponding RSM in the rsmnum[*] array.

**Attribute: cts_od[*]**

**Fullname:** Odd Control Time Slots for RSMs.

**Attribute Description** Each element of this array contains the Odd CTS for the corresponding RSM in the rsmnum[*] array.

**Defines:** "db/DMmodule.h"

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# HSSASGN

## 1. Description

100 second scan (HSS) customer feature assignment.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 50 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| trigger function | MSasgn_trig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
HSSASGN     relid = 572   DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     apid        DMAPSITE     (ushort: 8)     <--- key
 (a) hssactive   DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout    HSSASGN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               | |             |
  0 |              bcid             |      apid     |a|*************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLhssasgn

**Relation Description**
100 second scan customer feature assignment relation.

This relation contains a tuple for each customer in the *5ESS*®-2000 switch that has trunk groups with the HSS feature assigned to them. The hssactive attribute indicates whether or not the feature has been turned on for that customer. This relation is mainly used by the as subsystem.

**Attribute: bcid**

**Fullname:** Business customer ID

**Attribute Description** Used when sending a message to an AP. It uniquely identifies the customer.

**Attribute: apid**

**Fullname:** Applications Processor (AP) Identification

**Attribute Description** Uniquely defines a set of data links that go to a particular AP.

**Attribute: hssactive**

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**Fullname:** HSS active indicator

**Attribute Description** Indicates whether the EPSCS HSS feature has been activated for this customer.

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# HTU2RSM

## 1. Description

This relation maps the Host Transport Unit (HTU) of the HSM to the RSM number. It is the inverse of RLrsm2htu.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 30 |
| expected tuples in relation | 5 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
HTU2RSM     relid = 2936  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     htu_num     DMUNITNO     (ushort: 8) <--- key
     rsm_num     DMMODULE     (ushort: 8)

         User and Compacted Tuple Layout    HTU2RSM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |    htu_num    |    rsm_num    |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )

     htu_num     DMUNITNO     (ushort: 8) <--- key
     rsm_num     DMMODULE     (ushort: 8)
           Stored Tuple Layout      HTU2RSM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |    htu_num    |    rsm_num    |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population rules for RLhtu2rsm

**Relation Description**

```
        Maps Host Transport Unit to the RSM module it is connected to.
        Maps Host Transport Unit to the RSM module it is connected to.
        This relation is the inverse of RLrsm2htu.


Attribute:
        htu_num
Fullname:
        Host Transport unit number.
Attribute Description:
        This is the unit number of the Host Transport UNIT (HTU).  An
```

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HTU is an "abstract" unit defined to host all the umbilicals going to a RSM. The value will be identical to the RSM offset defined in MODATT for an RSM.

**Attribute:**
rsm_num
**Fullname:**
Remote Switching Module number.
**Attribute Description:**
This is the module number of a Remote Switching Module (RSM).

**Defines:**
/* NONE */

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# HUNTKEYS

## 1. Description

This relation contains information on various hunt control keys.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 1024 |
| page level | 0 |
| trigger function | RTrchtky |
| insert trigger | DBNO |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| optimize | DBYES |

## 3. Field Layout

```
HUNTKEYS    relid = 39    DBSTATIC   DBACC_HASH  DBPRAM    LPFG    GCRTG
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     scndindex   DMSHORT      (short)
 (a) huntkey_type  DMHKEY_TYP   (enum: 3)
     portgrp     DMPORTGRP    (struct)
         grpnum      DMGRPNUM     (ushort)
 (b)     grptype     DMPTYPE      (enum: 1)
     mkbusy_port  DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout   HUNTKEYS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============  port ============+===============|
    |                                |                |                |
  0 |              member            |****************|     module     |
    |===============+===============+================+================|
    |                                |     |                           |
  4 |            scndindex           |  a  |*************************|
    |===============+=========== portgrp ===========+================|
    |                                |              | |                  |
  8 |              grpnum            |**************|b|****************|
    |===============+========= mkbusy_port =========+================|
    |                                |                |                |
 12 |              member            |****************|     module     |
    |===============+===============+================+================|
       ( 16 bytes )
```

## 4. Population Rules for RLhuntkeys

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**Relation Description**
hunt control keyshas information on various hunt control keys

POPULATION RULES FOR 5E2_2 AND BEYOND:

```
When RLhuntkeys.portgrp.grptype == TM_TRK OR
     RLhuntkeys.portgrp.grptype == TM_LINE AND
     RLhuntkeys.huntkey_type == FCIDVLMKBUSY
```

For the multimodule RSM development, the population of the relation is being modified again. This time it will be GRP_PART, with a grp_type of GPDAM_SM_PART. This means:

1. If port.module is not an RSM, the tuple will be populated on the SM indicated by port.module and on the AM.

2. If port.module is a module of a multimodule RSM, the tuple must be populated on the AM, and on every module within the multimodule RSM.

```
When RLhuntkeys.portgrp.grptype == TM_LINE and
        RLhuntkeys.huntkey_type == FCPOSMKBUSY or
        FCMEMMKBUSY or
        FCSTOPHUNT or
        FCGRPMKBUSY
        FCRMKBUSY
```

The distribution type of this relation when the portgrp.grptype is TM_LINE will be GPDSM_PART. This means:

1. If port.module is not an RSM, the tuple will be populated on the SM indicated by port.module, and the SM indicated in RLrt_mhg.module. Where the key to RLrt_mhg is RLhuntkeys.portgrp.grpnum.

2. If port.module is a module of a multimodule RSM, the tuple must be populated on the SM indicated by port.module, and the SM indicated in RLrt_mhg.module, and every module within the multimodule RSM.

***NOTE:*** When a line is assigned to a *SLC*® 96 equipment number, the default is that no individual mkbusy key is assigned. If required by local operating company practices, assignment of an individual mkbusy key is allowed.

**Attribute: port**

**Fullname:** port

**Attribute Description** see General Information

**Attribute: port.member**

**Fullname:** port number

**Attribute Description** port number of scan point

**Attribute: port.module**

**Fullname:** SM number

**Attribute Description** see General Information

**Attribute: huntkey_type**

**Fullname:** hunt key type

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**Attribute Description** Type of hunt key assigned.

FCGRPMKBSY: - Make Multi-Line Hunt Group Busy. This is not used for packet switching.

FCTRKGPMKBY: - trunk group make busy key of selected customer control of feature (SCCOF).

FCPOSMKBUSY: - Make attendant console position busy in multi-position hunt (MUPH) group.

FCSFGMKBUSY: - Make simulated facility group busy.

```
Dependency for enumeration values of -
FCPOSMKBUSY:
        ( portgrp.grpnum  =  valid group number > 0,
        portgrp.grptype = TM_LINE,
        1 <= scndindex <= 16,
        mkbusy_port = 0,
FCTRKGPMKBY:
        ( portgrp.grpnum  =  valid group number > 0,
        portgrp.grptype = TM_TRK,
        scndindex   = 0,
        mkbusy_port = 0,p
        Verify tuple in rlGROUP_PORT with this grpnum
        and member = 0 as key).
FCSFGMKBUSY:
        ( portgrp.grpnum  =  valid group number > 0,
        portgrp.grptype = Don't Care,
        scndindex = 0,
        mkbusy_port = 0,
        Verify tuple in rlRT_SFG with portgrp.grpnum
        as key ).
```

**Attribute: portgrp**

**Fullname:** port group

**Attribute Description** see General Information

**Attribute: portgrp.grpnum**

**Fullname:** group number

**Attribute Description** Group number of multiline hunt group using scan points. Individual make busy keys are used for individual lines and therefore have no group number.

The huntkey_types have a valid group number range as follows:

| huntkey_type | group number |
|---|---|
| FCPOSMKBUSY FCMEMMKBUSY FCSTOPHUNT | AVMLHGRPS() |
| FCGRPMKBUSY FCRMKBUSYFCTRKGPMKBY | AVTRKGRPS() |
| FCSFGMKBUSY | AVSFGRPS() |
| FCIDVLMKBUSY | 0 |

**Attribute: portgrp.grptype**

**Fullname:** group type

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**Attribute Description** see RLhuntkeys.portgrp.grpnum and General Information

**Attribute: scndindex**

**Fullname:** second index

**Attribute Description**Indicates the console position number in MUPH

```
if huntkey_type = FCPOSMKBUSY. (1-16)
        Indicates the console position number in MUPH
if huntkey_type = FCMEMMKBUSY.
        Key to a RLTMBLIST tuple
if huntkey_type = FCSTOPHUNT.
        member number in hunt group
All others: don`t care field, default to 0.
Range: If huntkey_type = FCPOSMKBUSY: 1 - 16.
 If huntkey_type = FCTRKGPMKBY: 0.
 If huntkey_type = FCSFGMKBUSY: 0.
 If huntkey_type = FCIDVLMKBUSY: 0.
 If huntkey_type = FCMEMMKBUSY: allocated sequentially starting with 1.
 If huntkey_type = FCRMKBUSY: allocated sequentially starting with 1,
 If huntkey_type = FCSTOPHUNT: 1 - 2047.
```

**Attribute: mkbusy_port**

**Fullname:** make busy port

**Attribute Description** make bust port for individual make busy

**Attribute: mkbusy_port.member**

**Fullname:** make busy port number

**Attribute Description** make busy port number assigned to individual make busy hunt key

**Attribute: mkbusy_port.module**

**Fullname:** SM number

**Attribute Description** N/A

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# HWCHKS

## 1. Description

This is a dummy relation to be use by the On-switch Hardware audit to hold TARGET release prl checks.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | LPFR |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| permutation type | perm |

## 3. Field Layout

```
HWCHKS      relid = 2203  DBSTATIC   DBACC_LIN   DBPRAM    LPFR    RCMAP
 (b) dumattr     DMBOOL       (enum: 1)
         User and Compacted Tuple Layout     HWCHKS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | | |                                                           |
  0 |a|b|***********************************************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
 (a) dumkey      DMBOOL       (enum: 1)     <--- key
 (b) dumattr     DMBOOL       (enum: 1)
           Stored Tuple Layout   HWCHKS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | | |                                                           |
  0 |a|b|***********************************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLhwchks

**Relation Description**

This relation is a placeholder relation for *5ESS*®-2000 switch specific information.

It is also used in conjunction with the On-Switch Hardware capability of the SODD audit. The checks performed in the 'checks:' section are related exclusively to the SODD on-switch HW check capability. This relation contains the Target release checks that are SU'ed to the previous release to ensure that REQUIRED Hardware data is grown in properly prior to retrofit to the Target release.

**Attribute: dumkey**

**Fullname:** Dummy Key: DBYES,DBNO

**Attribute Description** Dummy key needed to access the relation

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**Attribute: dumattr**

**Fullname:** Dummy Attribute

**Attribute Description** Dummy attribute to satisfy a legal relation.

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## 2.10 RELATIONS: I

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# IAMSAC

## 1. Description

This relation contains information about service access codes and the required IAM message parameters. This is a spare relation; there is no feature requiring it yet.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |

## 3. Field Layout

```
IAMSAC      relid = 2027  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     sh_spare    DMUSHORT     (ushort)
     access_code  DMCHAR3      (array [ 3 ] of char )  <--- key
     thrd_type   DMUNS8       (ushort: 8)
     spare8      DMUNS8       (ushort: 8)
     bncc_tod    DMUNS5       (ushort: 5)
 (a) ccn_send    DMBOOL       (enum: 1)
 (b) sabn_send   DMBOOL       (enum: 1)
 (c) bk_thrd_trn  DMBOOL       (enum: 1)
     bnpin_tod   DMUNS5       (ushort: 5)
     cac_tod     DMUNS5       (ushort: 5)
     sab_tod     DMUNS5       (ushort: 5)
 (d) ccs7sig     DMBOOL       (enum: 1)
 (e) bool1       DMBOOL       (enum: 1)
 (f) bool2       DMBOOL       (enum: 1)
 (g) bool3       DMBOOL       (enum: 1)
 (h) bool4       DMBOOL       (enum: 1)
 (i) bool5       DMBOOL       (enum: 1)
 (j) bool6       DMBOOL       (enum: 1)
 (k) bool7       DMBOOL       (enum: 1)
 (l) bool8       DMBOOL       (enum: 1)
     lg_spare    DMULONG      (ulong)
         User, Compacted and Stored Tuple Layout IAMSAC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            sh_spare           |          access_code          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |               |               |               |         | | | |
  4 |  access_code  |   thrd_type   |     spare8    | bncc_tod|a|b|c|
    |---------------+---------------+---------------+---------------|
    |         |         |         | | | | | | | | |               |
  8 |bnpin_tod| cac_tod | sab_tod |d|e|f|g|h|i|j|k|l|***************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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```
 12 |                            lg_spare                           |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLiamsac

**Relation Description**
IAM message/service access code.

This relation contains the information about IAM message parameters and service access codes.

**Attribute: access_code**

**Fullname:** Access Code

**Attribute Description** Service access code.

**Attribute: ccn_send**

**Fullname:** Send the calling card number

**Attribute Description** The send card number field indicates whether or not to send the credit card number.

**Attribute: sabn_send**

**Fullname:** Send the subaccount billing number

**Attribute Description** The send subaccount billing number field indicates whether or not to send the subaccount billing number.

**Attribute: bk_thrd_trn**

**Fullname:** Transfer the bill to a back third number.

**Attribute Description** The Back Third Transfer field indicates whether the customer may transfer the bill to a back third number.

**Attribute: ccs7sig**

**Fullname:** CCS7 signaling

**Attribute Description** The ccs7sig field will indicate whether CCS7 signaling.

**Attribute: bncc_tod**

**Fullname:** billing number credit card type of digits

**Attribute Description** This field is the decimal form of the binary value to be placed into an initial address message (IAM). This field will represent the billing number credit card type of digits used in the IAM.

**Attribute: bnpin_tod**

**Fullname:** billing number PIN type of digits used in an initial address message (IAM).

**Attribute Description** This field is the decimal form of the binary value to be placed into an IAM.

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This field will represent the billing number PIN type of digits used in an IAM.

**Attribute: cac_tod**

**Fullname:** CCC Authorization Code type of digits used in Initial Address Message.

**Attribute Description** This field is the decimal form of the binary value to be placed into an IAM. This field will represent the commercial credit card (CCC) authorization code type of digits used in an IAM.

**Attribute: sab_tod**

**Fullname:** subaccount billing number type of digits used in IAM.

**Attribute Description** This field is the decimal form of the binary value to be placed into an IAM. This field will represent the subaccount billing number type of digits used in an IAM.

**Attribute: thrd_type**

**Fullname:** third number type used in Initial Address Message.

**Attribute Description** This field is the decimal form of the binary value to be placed into an Initial Address Message message. This field will represent the third number type of digits used in an IAM.

**Attribute: lg_spare**

**Fullname:** Long Spare

**Attribute Description** Spare field for fast features.

**Attribute: sh_spare**

**Fullname:** Short Spare

**Attribute Description** Spare field for fast features.

**Attribute: spare8**

**Fullname:** Spare 8

**Attribute Description** Spare field for fast features.

**Attribute: bool1**

**Fullname:** Boolean 1

**Attribute Description** Spare field for fast features.

**Attribute: bool2**

**Fullname:** Boolean 2

**Attribute Description** Spare field for fast features.

**Attribute: bool3**

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**Fullname:** Boolean 3

**Attribute Description** Spare field for fast features.

**Attribute: bool4**

**Fullname:** Boolean 4

**Attribute Description** Spare field for fast features.

**Attribute: bool5**

**Fullname:** Boolean 5

**Attribute Description** Spare field for fast features.

**Attribute: bool6**

**Fullname:** Boolean 6

**Attribute Description** Spare field for fast features.

**Attribute: bool7**

**Fullname:** Boolean 7

**Attribute Description** Spare field for fast features.

**Attribute: bool8**

**Fullname:** Boolean 8

**Attribute Description** Spare field for fast features.

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# IBMTGN

## 1. Description

OSPS port to *IBM*® position ID mapping.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| access type | DBACC_LIN |
| head table size | 256 |
| data page size | 256 |

## 3. Field Layout

```
IBMTGN      relid = 1465  DBSTATIC   DBACC_LIN   DBPRAM    LP      RCMAP
     tgn1         DMGRUPNM     (ushort: 13)
     tgn2         DMGRUPNM     (ushort: 13)
     tgn3         DMGRUPNM     (ushort: 13)
     tgn4         DMGRUPNM     (ushort: 13)
 (a) glbl_indx    DMUNS4       (ushort: 4)     <--- key
         User, Compacted and Stored Tuple Layout IBMTGN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           |     |                           |     |
  0 |            tgn1           |*****|            tgn2           |*****|
    |---------------+---------------+---------------+---------------|
    |                           |     |                           |     |
  4 |            tgn3           |*****|            tgn4           |*****|
    |---------------+---------------+---------------+---------------|
    |        |                                                        |
  8 |   a    |********************************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLibmtgn

**Relation Description**
IBM Trunk Group.

This relation allows the OSPS owner to obtain *IBM*® Position ID's for each of the ARU trunk group ports (members) associated with the *IBM*® Directory Assistance System(s) (DAS). This relation is needed by ODA and RC/V to support the globals (Gltg[0-7]rn) for *IBM*® ports. On the ODA and RC forms, the customer associates a TGN with a particular global. Using this information, the corresponding *IBM*® port is calculated and displayed for the customer. Without this relation, ODA could not do any reverse mapping during retrofit, since the TGN to global relationship would be lost. On the other hand, without this relation, RC would be unable to enforce any poprules, since it would not know what TGN to global relationships already existed, except for the one instance being entered on the RC view. The user could enter any TGN, and RC would be unable to tell if the TGN conflicted with other TGNs already entered by the customer. Without this relation, RC could generate incorrect *IBM*® positions, which the customer would then use to fill out their *IBM*® forms. The tuple size of RLibmtgn is 8 bytes. The

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maximum number of tuples is 8; the expected number of tuples is 4.

**Attribute: glbl_indx**

**Fullname:** global parameter index

**Attribute Description** This number determines which global parameter (Gltg[0-7]rn) this tuple is associated with, and what trunk group numbers (TGN) are allowed in the tuple. Any TGN in this tuple must follow the following rule: The remainder of the TGN when divided by eight must equal glbl_indx (remainder of TGN/8 must equal glbl_indx).

**Attribute: tgn1**

**Fullname:** Trunk Group Number for *IBM*® DAS 1.

**Attribute Description** Trunk Group Number (TGN) of trunk group connected to *IBM*® DAS system 1. This TGN is associated with global parameter GltgXrn, where X equals the value of glbl_indx. If glbl_indx equals 2, then this TGN is associated with Gltg2rn and the remainder of TGN/8 must equal 2 (such as, TGN = 10, 18, 482, etc).
The trunk group can be either an internal OSPS DSU2-RAF, or an external ARU trunk group connected to an *IBM*® DAS ARU.

Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: tgn2**

**Fullname:** Trunk Group Number for *IBM*® DAS 2.

**Attribute Description** Trunk Group Number (TGN) of trunk group connected to *IBM*® DAS system 2. This TGN is associated with global parameter GltgXrn, where X equals the value of glbl_indx. If glbl_indx equals 2, then this TGN is associated with Gltg2rn and the remainder of TGN/8 must equal 2 (such as, TGN = 10, 18, 482, etc).
The trunk group can be either an internal OSPS DSU2-RAF, or an external ARU trunk group connected to an *IBM*® DAS ARU.

Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: tgn3**

**Fullname:** Trunk Group Number for *IBM*® DAS 3.

**Attribute Description** Trunk Group Number (TGN) of trunk group connected to *IBM*® DAS system 3. This TGN is associated with global parameter GltgXrn, where X equals the value of glbl_indx. If glbl_indx equals 2, then this TGN is associated with Gltg2rn and the remainder of TGN/8 must equal 2 (such as, TGN = 10, 18, 482, etc).
The trunk group can be either an internal OSPS DSU2-RAF, or an external ARU trunk group connected to an *IBM*® DAS ARU.

Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: tgn4**

**Fullname:** Trunk Group Number for *IBM*® DAS 4.

**Attribute Description** Trunk Group Number (TGN) of trunk group connected to *IBM*® DAS

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system 4. This TGN is associated with global parameter GltgXrn, where X equals the value of glbl_indx. If glbl_indx equals 2, then this TGN is associated with Gltg2rn and the remainder of TGN/8 must equal 2 (such as, TGN = 10, 18, 482, etc).
The trunk group can be either an internal OSPS DSU2-RAF, or an external ARU trunk group connected to an *IBM*® DAS ARU.

Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

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# IBNS_CB

## 1. Description

This relation for IBNS Call Blocking exclusion list. This relation will have a distribution of FG (Fixed Group), with grp_type of GPD_OSPS, and a grpi_d of 4.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 5000 |
| expected number of tuples | 5000 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| spare | 16s*2:8c*2 |

## 3. Field Layout

```
IBNS_CB     relid = 2939  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     npa          DMUSHORT     (ushort)    <--- key
     nxx          DMUSHORT     (ushort)    <--- key
     line         DMUSHORT     (ushort)    <--- key
        User, Compacted and Stored Tuple Layout    IBNS_CB
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |               npa             |              nxx              |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |               line            |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |***************************************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population rules for RLibns_cb

### Relation Description

RLibns_cb is used for International Billed Number Screening (IBNS) Call Blocking feature.
This relation will store the directory numbers excluded from IBNS treatment.

**Attribute:**

npa

**Fullname:**

Numbering Plan Area (first key)

**Attribute Description:**

Stores directory number npa (area code).

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**Attribute:**
nxx
**Fullname:**
Office Exchange (second key)
**Attribute Description:**
Stores directory number nxx (exchange office code).

**Attribute:**
line
**Fullname:**
Local directory number minus office code (third key)
**Attribute Description:**
Stores local dn minus office code.

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# IC_LTH

## 1. Description

Relation that stores the iclid index holes for individual calling line identification calling number delivery billing counts.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 24600 |
| access type | DBACC_HASH |
| memory type | DBDISK |
| distribution | DO |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 2048 |

## 3. Field Layout

```
IC_LTH      relid = 1108  DBSTATIC   DBACC_HASH  DBDISK    DO      DDBM
     ic_idx      DMIC_IDX     (ushort: 16)  <--- key
     pred        DMIC_IDX     (ushort: 16)
     succ        DMIC_IDX     (ushort: 16)
     module      DMMODULE     (ushort: 8)  <--- key
     qid         DMQID        (ushort: 2)  <--- key
         User, Compacted and Stored Tuple Layout IC_LTH
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |             ic_idx             |              pred             |
    |---------------+---------------+---------------+---------------|
    |                                |                 |   |         |
  4 |              succ             |     module      |qid|**********|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLic_lth

**Relation Description**
Individual calling line identification (ICLID) last ic_idx hole.

This relation is used to store the ICLID 'ic_idx' index holes for ICLID calling number delivery billing counts in a dual-link list.

The 'ic_idx' index holes are distributed between four queues. This strategy supports concurrency of four users by allowing up to four users to retrieve indices simultaneously. Each index is stored in the appropriate queue defined by the queue identifier attribute value. The appropriate queue is determined by dividing the index value by four. The remainder of this division represents the appropriate queue identifier value.

For a new office, four tuples will be initialized. Each tuple will contain the highest used index value corresponding to a queue. A tuple will be initialized for each queue, queue zero, one, two, and three. The 'succ' and 'pred' attribute values are zero when there are no index holes in the given queue.

**Attribute: module**

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**Fullname:** Lead SM

**Attribute Description** RC keeps separate ic_idx link lists for each SM. The head cell for each link list is the module number and 'ic_idx' equal to zero. RC adds a member to a link list when it is no longer needed. This may be due to a customer no longer subscribing to the CND feature. When an 'ic_idx' is required to be assigned to an 'ltm_idx' on an SM, RC uses the members from the link list.

**Attribute: ic_idx**

**Fullname:** ICLID index

**Attribute Description** This is a sequentially assigned index used by ICLID to keep track of CND counts for billing. It will be used to index into the dynamic relation RLcnddata which will contain the CND counts.

**Attribute: qid**

**Fullname:** Queue identifier

**Attribute Description** Queue identifier references one of the four index queues.

**Attribute: pred**

**Fullname:** Predecessor

**Attribute Description** The predecessor 'ic_idx' that is the key to the next less significant member of the link list or zero to indicate no or last member of the list.

**Attribute: succ**

**Fullname:** Successor

**Attribute Description** The successor 'ic_idx' that is the key to the more significant member of the link list or zero to indicate no or last member of the list.

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# ICCVDB

## 1. Description

This layout is used to provide query success ratio percentage and minimum number of queries for software alarms on a card issuer basis. It includes a label which will be printed on the measurement and software alarm reports.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | LP |
| application | AMA |
| relation type | DBSTATIC |

## 3. Field Layout

```
ICCVDB      relid = 1903  DBSTATIC   DBACC_LIN   DBPRAM    LP      AMA
     dblabel     DMCHAR5      (array [ 5 ] of char )
     qratio      DMUNS7       (ushort: 7)
 (a) oaff1       DMBOOL       (enum: 1)
     minquery    DMUNS7       (ushort: 7)
     iccvdbn     DMUNS5       (ushort: 5)  <--- key
     oaff2       DMUNS4       (ushort: 4)
         User, Compacted and Stored Tuple Layout ICCVDB
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                            dblabel                            |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |               |             | |             |         |       |
  4 |    dblabel    |    qratio   |a|   minquery  | iccvdbn | oaff2 |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLiccvdb

**Relation Description**
International credit card validation (ICCV) database.

This layout is used to provide query success ratio percentage and minimum number of queries for software alarms on a card issuer basis. It includes a label which will be printed on the measurement and software alarm reports. Each entry is linked to the card issuer by the iccvdbn attribute in RLtccid.

Each entry in this layout contains information about an ICCV card issuer.

**Attribute: iccvdbn**

**Fullname:** ICCV database number

**Attribute Description** Key to this relation; used on office data administration (ODA) form TCCID or recent change (RC) view 27.55 to link the rest of the attributes to an ICCV card issuer.

**Attribute: dblabel**

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**Fullname:** Database label

**Attribute Description** Used on software alarm and measurement reports to identify card issuer(s).

**Attribute: qratio**

**Fullname:** Query success ratio percentage

**Attribute Description** Query success ratio percentage applied to software query alarms.

**Attribute: minquery**

**Fullname:** Minimum query attempts

**Attribute Description** Minimum number of query attempts required before the query success ratio is applied.

**Attribute: oaff1**

**Fullname:** Spare field 1

**Attribute Description** Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

**Attribute: oaff2**

**Fullname:** Spare field 2

**Attribute Description** Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

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# ICL_MSK

## 1. Description

This relation containing special "time slot availability" masks used in selection of RSM network side time slots for intra-RM calls, ICL carried calls, and host umbilical carried calls.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| expected tuples in relation | 4 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 33 |
| ks key store option | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
ICL_MSK     relid = 578   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     mod          DMMODULE     (ushort: 8)  <--- key, not stored
     msk01        DMMASK       (long)
     msk02        DMMASK       (long)
     msk03        DMMASK       (long)
     msk04        DMMASK       (long)
     msk05        DMMASK       (long)
     msk06        DMMASK       (long)
     msk07        DMMASK       (long)
     msk08        DMMASK       (long)
     msk09        DMMASK       (long)
     msk10        DMMASK       (long)
     msk11        DMMASK       (long)
     msk12        DMMASK       (long)
     msk13        DMMASK       (long)
     msk14        DMMASK       (long)
     msk15        DMMASK       (long)
     msk16        DMMASK       (long)
         User and Compacted Tuple Layout    ICL_MSK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                |                                               |
  0 |      mod       |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                                                                |
  4 |                              msk01                             |
    |---------------+---------------+---------------+---------------|
    |                                                                |
  8 |                              msk02                             |
    |---------------+---------------+---------------+---------------|
    |                                                                |
 12 |                              msk03                             |
    |---------------+---------------+---------------+---------------|
    |                                                                |
```

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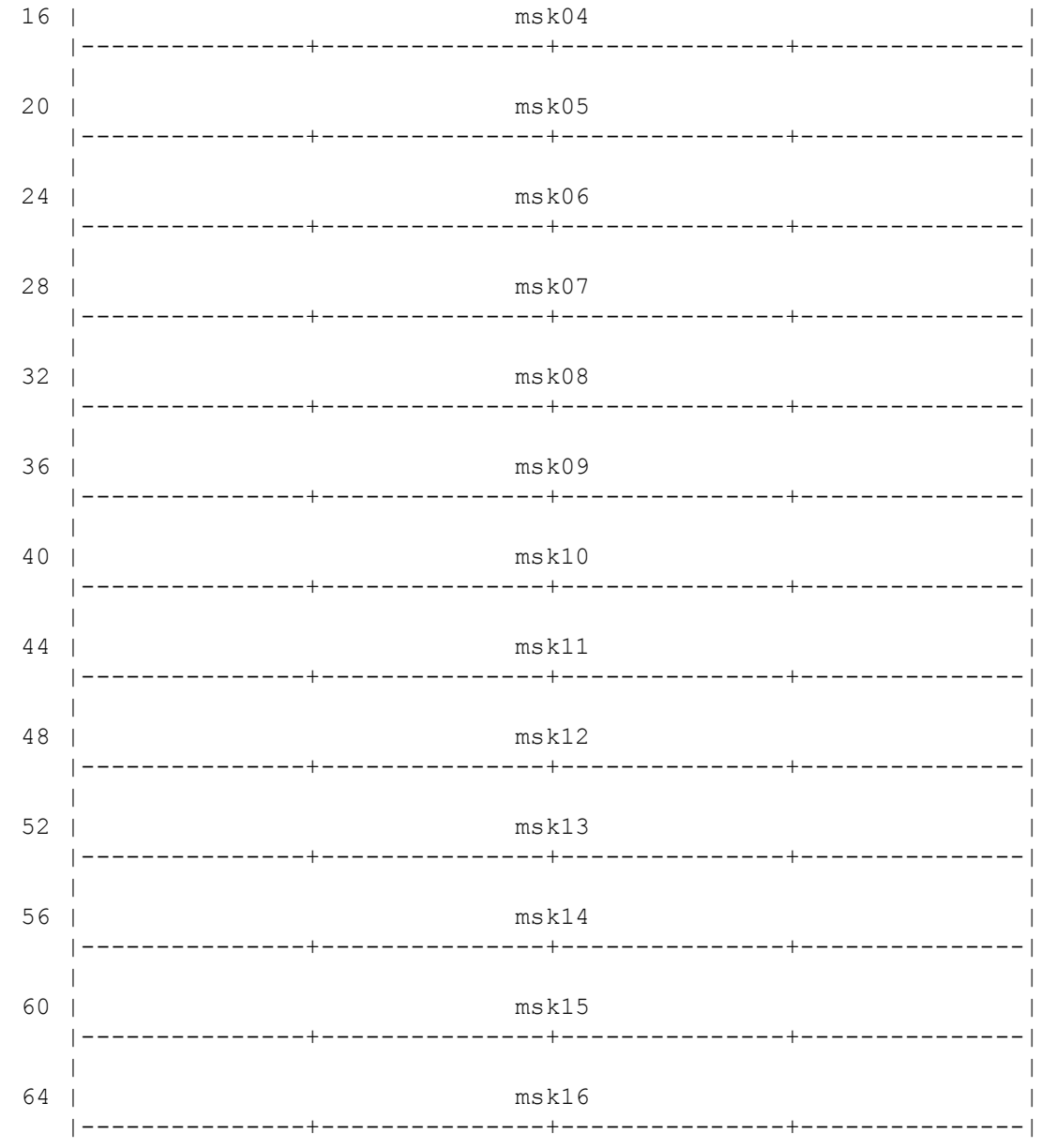


( 68 bytes )

| | | |
|---|---|---|
| msk01 | DMMASK | (long) |
| msk02 | DMMASK | (long) |
| msk03 | DMMASK | (long) |
| msk04 | DMMASK | (long) |
| msk05 | DMMASK | (long) |
| msk06 | DMMASK | (long) |
| msk07 | DMMASK | (long) |
| msk08 | DMMASK | (long) |
| msk09 | DMMASK | (long) |
| msk10 | DMMASK | (long) |
| msk11 | DMMASK | (long) |
| msk12 | DMMASK | (long) |
| msk13 | DMMASK | (long) |
| msk14 | DMMASK | (long) |
| msk15 | DMMASK | (long) |

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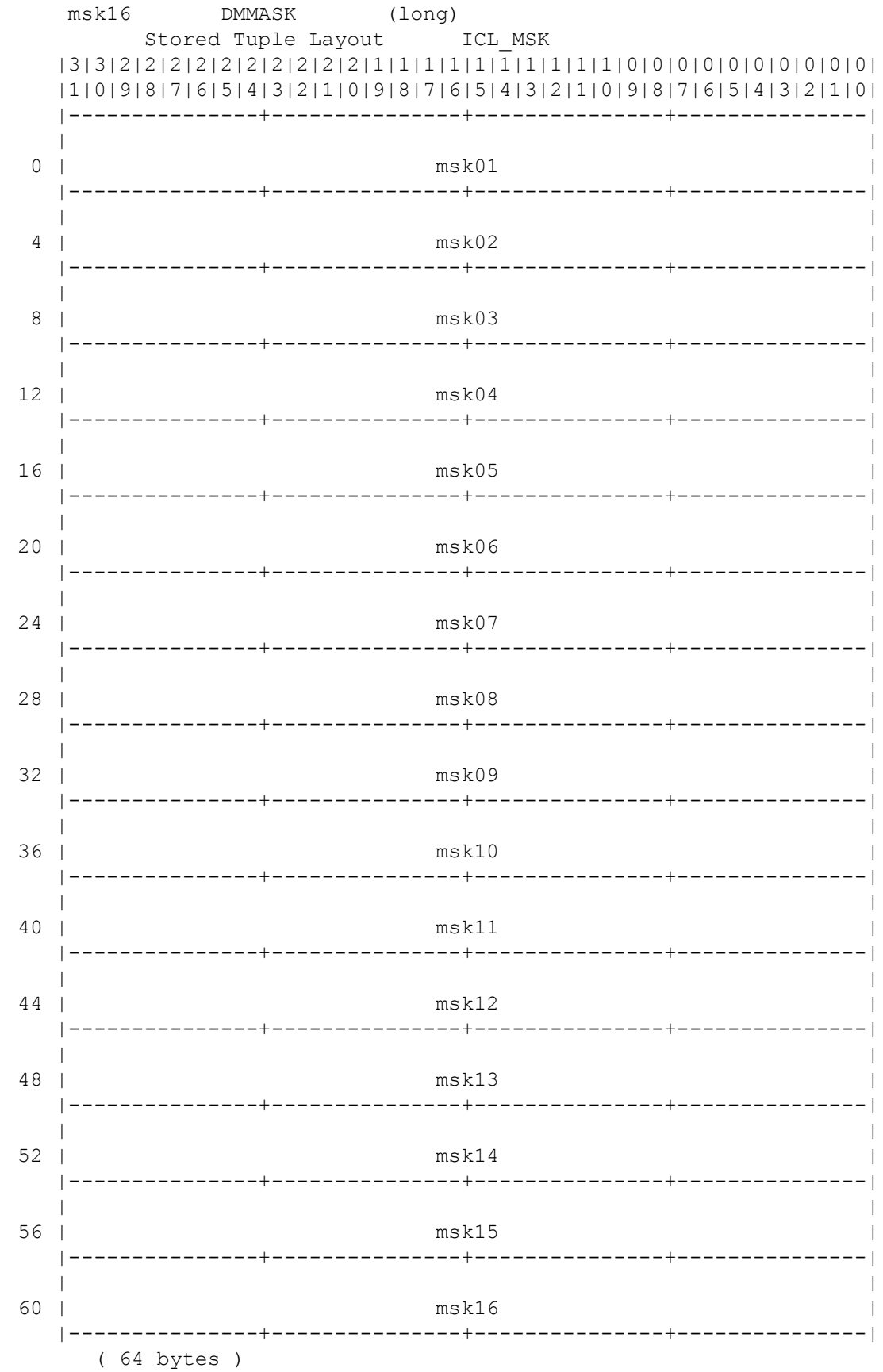


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## 4. Population Rules for RLicl_msk

**Relation Description**
ICL mask.

Relation containing special 'time slot availability' masks used in selection of RSM network side time slots for intra-RSM calls, ICL carried calls, and host umbilical carried calls.

**CAUTION:** The following data structure contains machine dependencies and may be hazardous to your portability. This relation is meant to be used with DMicl_msk which forms the union with rlICL_MSK and a similarly defined domain containing an array of DMUNLONGs replacing msk01 - msk16 (see db/DMicl_msk.h). Note that the array is dimensioned msk[2][8] and the first element is msk[0][0]. Due to a domain subrange limit, msk01 - msk16 have been defined as HEX signed longs (DMMASK) in this relation.

**Attribute: mod**

**Fullname:** module number

**Attribute Description** This attribute contains the module number of one of the modules which are connected to 'Glpcrid' or it contains 'Glpcrid' itself. There must be a tuple for each different value of 'mod.' This means that there are always at least two tuples for any given RSM. One of these tuples would have 'mod' equal to 'Glpcrid.' Subsequently this tuple will be referred to as the 'Intra' tuple. The second tuple, which should always be present, is the one in which 'mod' is equal to the module number of the Host SM for 'Glpcrid.' This will be called the 'Umbilical' tuple.

As a convenience, a third tuple will be available for each RSM. This tuple gives the time slots that are not owned by the module, or time slots that are control time slots. To access this tuple, the key 'mod' is set to 0.

In addition, RSM 'clusters' having more than a single RSM (Multimodule RSMs) will have tuples for each of the other modules in the RSM 'cluster.' These will be called 'ICL' tuples and will have 'mod' equal to the module number of particular 'cluster mate.'

**Attribute: msk[*]**

**Fullname:** a segment of a 512 bit mask

**Attribute Description** These attributes contains a total of 512 bits that correspond to the 512 network side time slots on an RSM. The 512 bits are partitioned into 16 segments of 32 bits each. These 16 segments are stored in the low order 32 bits of the 16 attributes. NOTE: that this depends upon length of a 'long' data type being at least 32 bits.

The time slots are assigned to the bits as follows:

```
000-062 (even numbers) --> msk01
064-126 (even numbers) --> msk02
                       .
                       .
448-510 (even numbers) --> msk08
001-063 ( odd numbers) --> msk09
065-127 ( odd numbers) --> msk10
                       .
                       .
449-511 ( odd numbers) --> msk16
```

Within each msk, the highest numbered time slot is assigned to the least significant bit position

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and remaining time slots are assigned in sequence from there.

The population of these time slot masks is rather complicated and follows the following rules stated.

MASK POPULATION GUIDELINES

The population rules for the time slot masks fall into five distinct cases. Each of these five cases has its own set of rules.

The five cases are the Intra case, the HiICL case, the LoICL case, the Umbilical case, and the NO_OWN case.

These five cases are defined as follows:

Intra - These are the rules for populating 'Intra' type tuples. (See the previous.) That is, tuples in which 'mod' equals 'Glpcrid'.

Umbilical - These are the rules for populating the 'Umbilical' type tuples. (that is, 'mod' equals the Host SM of 'Glpcrid'.)

HiICL - These are the rules for populating 'ICL' type tuples for which 'Glpcrid' is greater than 'mod'.

LoICL - These are the rules for populating 'ICL' type tuples which have 'Glpcrid' less than 'mod'.

NO_OWN - These are the rules for populating tuples representing time slots that are either control time slots or 'ICL' time slots that are not controlled by the module in which the relation resides.

Before specifying the population rules for these five cases, we should define one more thing.

The network side of a remote switching module (RSM) has a current capacity for terminating 20 T1 carriers. Each of these 20 carriers is associated with a FIDB. Each of these carriers has 23 channels that carry data (the 24th carries multiplexed signaling information) and that are associated with 23 network side time slots. The correspondence between a particular FIDB and the 23 network side time slots it handles is a relationship fixed in hardware. Therefore, if you know which FIDB a carrier connects to, you also know which 23 network side time slots it carries.

In the following population rules, when we speak about the 'time slots connected to mod' we mean 'all the network side time slots associated with FIDBs which terminate carriers to mod.' (We will not use this terminology when discussing Intra-tuples.)

The population rules for the masks are:

Umbilical - All the time slots that connect to the Host SM and are not control time slots are set to '1'. All the rest are set to '0'.

HiICL - All the time slots which connect to 'mod' and which are greater than 255 are set to '1'. All the rest are set to '0'.

LoICL - All the time slots which connect to 'mod' and which are less than 256 are set to '1'. All the rest are set to '0'.

Intra - All TSI network side time slots which do not terminate either T1 Umbilicals or

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ICLs on this (GI_pcrid) module should be set to '1' in this tuple. All other network side time slots with equipped T1 facilities will be set to '0.'

NO_OWN - For the key 'mod' of 0, the time slots that are control time slots are set to 1, as well as the time slots that are 'ICL' and not controlled (owned) by the module in which the relation resides. To obtain this, for each time slot set a 1 if the corresponding time slot is not set to 1 in any other mask for mod not equal to 0; set 0 otherwise.

NOTE:

(1) Control time slots never appear in any tuples except NO_OWN.

(2) For any given module, a given time slot should be marked as '1' in AT MOST one tuple. (ICL time slots which will be allocated by the far end module will not appear in any of the tuples on this processor except NO_OWN.)

(3) Growing/Degrowing an Umbilical T1 link will affect exactly 23 time slots in the Umbilical tuple AND 23 time slots in the Intra tuple.

(4) Growing/Degrowing an ICL to another module will affect either 11 time slots in the HiICL or 12 time slots in the LoICL tuples (11 if using FIDB 01 or 11) for this module as well as all 23 time slots (22 if using FIDB 01 or 11) in the Intra tuple. It will also affect the NO_own tuple. (There will be a comparable change in the tuples for the module at the other end of the ICL. However, different time slots may be affected since a different FIDB may be used. Also, if a HiICL tuple is affected here, then a LoICL tuple will be affected there - and vice versa.) Note that whenever a FIDB choice of 01 or 11 is made for the CDFI in either module, the corresponding ICL will be constrained to have only 22 time slots, not 23.

(5) The rules for ICL tuples are constructed so that the two network side time slots tied together by a given T1 channel will never be marked the same in both modules. If it is '1' in one module, it will be '0' in the other.

DESCRIPTION OF TIME SLOTS TO FIDBs

The connection between time slots and facility interface bus (FIDB) number is fixed by the hardware. The following layout indicates which time slot is present in which FIDB; the layout can be used to construct the masks. The first column of each row gives the binary representation (word) of the 32 bit long representing a mask if only this FIDB were connected (and the previous population rules allowed a non-zero value for this set of time slots). The complete mask is obtained by 'OR'ing all these words together for the complete set of FIDBs that are equipped.

Each bit in each word represents one time slot; the time-slot numbers increase from left to right in the word. The first 8 words of the array represent even time slots; the second 8 words represent odd. For example, the first word gives the available even time slots between 0 and 62. The first word of the second set of eight words gives the available odd time slots between 1 and 63.

Because of the hardware connections between the TSI of an RSM and the facility interface data bus (FIDB) that is associated with each of the possible 20 T1 links, FIDBs numbered 00-09 hexadecimal (hex) connect to even time slots, and FIDBs numbered 10-19 hex connect to odd time slots. The following layout displays the first 8 words assuming only one T1 link (for FIDBs numbered 00-09) is connected to an RSM. For these FIDBs, the remaining 8 words are 0.

The masks associated with having only a single T1 link for FIDBs numbered between 10-19 have

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the first 8 words 0. The second eight words are identical to those in the layout with the following label changes: add 0x10 to the FIDB number, and add 1 to the time-slot number.

The control time slots are time slots 0, 1, 2 and 3. The Time slot number is the lnkslot number 2 for even time slots, and (lnkslot number 2) + 1 for odd time slots.

TABLE

| -ndash;ndash;--------FIDB Number 00--------- | Lnkslot | Time slot |
|---|---|---|
| 10000000100000001000000000000000 | 0- 31 | 0- 62 |
| 10000000100000001000000000000000 | 32- 63 | 64-126 |
| 10000000100000001000000000000000 | 64- 95 | 128-190 |
| 10000000100000001000000000000000 | 96-127 | 192-254 |
| 10000000100000001000000000000000 | 128-159 | 256-318 |
| 10000000100000001000000000000000 | 160-191 | 320-382 |
| 10000000100000001000000000000000 | 192-223 | 384-446 |
| 10000000100000000000000000000000 | 224-255 | 448-510 |

| -ndash;ndash;--------FIDB Number 01--------- | Lnkslot | Time slot |
|---|---|---|
| 01000000010000000000000010000000 | 0- 31 | 0- 62 |
| 01000000010000000000000010000000 | 32- 63 | 64-126 |
| 01000000010000000000000010000000 | 64- 95 | 128-190 |
| 01000000010000000000000010000000 | 96-127 | 192-254 |
| 01000000010000000000000010000000 | 128-159 | 256-318 |
| 01000000010000000000000010000000 | 160-191 | 320-382 |
| 01000000010000000000000010000000 | 192-223 | 384-446 |
| 01000000010000000000000000000000 | 224-255 | 448-510 |

| -ndash;ndash;--------FIDB Number 02--------- | Lnkslot | Time slot |
|---|---|---|
| 00100000000000000100000001000000 | 0- 31 | 0- 62 |
| 00100000000000000100000001000000 | 32- 63 | 64-126 |
| 00100000000000000100000001000000 | 64- 95 | 128-190 |
| 00100000000000000100000001000000 | 96-127 | 192-254 |
| 00100000000000000100000001000000 | 128-159 | 256-318 |
| 00100000000000000100000001000000 | 160-191 | 320-382 |
| 00100000000000000100000001000000 | 192-223 | 384-446 |
| 00100000000000000100000000000000 | 224-255 | 448-510 |

| -ndash;ndash;--------FIDB Number 03--------- | Lnkslot | Time slot |
|---|---|---|
| 00000000001000000010000000100000 | 0- 31 | 0- 62 |
| 00000000001000000010000000100000 | 32- 63 | 64-126 |
| 00000000001000000010000000100000 | 64- 95 | 128-190 |
| 00000000001000000010000000100000 | 96-127 | 192-254 |
| 00000000001000000010000000100000 | 128-159 | 256-318 |
| 00000000001000000010000000100000 | 160-191 | 320-382 |
| 00000000001000000010000000100000 | 192-223 | 384-446 |
| 00000000001000000010000000000000 | 224-255 | 448-510 |

| -ndash;ndash;--------FIDB Number 04--------- | Lnkslot | Time slot |
|---|---|---|
| 00010000000100000001000000000000 | 0- 31 | 0- 62 |
| 00010000000100000001000000000000 | 32- 63 | 64-126 |
| 00010000000100000001000000000000 | 64- 95 | 128-190 |
| 00010000000100000001000000000000 | 96-127 | 192-254 |
| 00010000000100000001000000000000 | 128-159 | 256-318 |

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```
00010000000100000001000000000000     160-191     320-382
00010000000100000001000000000000     192-223     384-446
00010000000100000000000000000000     224-255     448-510

-ndash;ndash;--------FIDB Number 05---------     Lnkslot   Time slot
00001000000010000000000000010000       0- 31       0- 62
00001000000010000000000000010000      32- 63      64-126
00001000000010000000000000010000      64- 95     128-190
00001000000010000000000000010000      96-127     192-254
00001000000010000000000000010000     128-159     256-318
00001000000010000000000000010000     160-191     320-382
00001000000010000000000000010000     192-223     384-446
00001000000010000000000000000000     224-255     448-510

-ndash;ndash;--------FIDB Number 06---------     Lnkslot   Time slot
00000100000000000000100000001000       0- 31       0- 62
00000100000000000000100000001000      32- 63      64-126
00000100000000000000100000001000      64- 95     128-190
00000100000000000000100000001000      96-127     192-254
00000100000000000000100000001000     128-159     256-318
00000100000000000000100000001000     160-191     320-382
00000100000000000000100000001000     192-223     384-446
00000100000000000000100000000000     224-255     448-510

-ndash;ndash;--------FIDB Number 07---------     Lnkslot   Time slot
00000000000001000000010000000100       0- 31       0- 62
00000000000001000000010000000100      32- 63      64-126
00000000000001000000010000000100      64- 95     128-190
00000000000001000000010000000100      96-127     192-254
00000000000001000000010000000100     128-159     256-318
00000000000001000000010000000100     160-191     320-382
00000000000001000000010000000100     192-223     384-446
00000000000001000000010000000000     224-255     448-510

-ndash;ndash;--------FIDB Number 08---------     Lnkslot   Time slot
00000010000000100000001000000000       0- 31       0- 62
00000010000000100000001000000000      32- 63      64-126
00000010000000100000001000000000      64- 95     128-190
00000010000000100000001000000000      96-127     192-254
00000010000000100000001000000000     128-159     256-318
00000010000000100000001000000000     160-191     320-382
00000010000000100000001000000000     192-223     384-446
00000010000000100000000000000000     224-255     448-510

-ndash;ndash;--------FIDB Number 09---------     Lnkslot   Time slot
00000001000000010000000000000001       0- 31       0- 62
00000001000000010000000000000001      32- 63      64-126
00000001000000010000000000000001      64- 95     128-190
00000001000000010000000000000001      96-127     192-254
00000001000000010000000000000001     128-159     256-318
00000001000000010000000000000001     160-191     320-382
00000001000000010000000000000001     192-223     384-446
00000001000000010000000000000000     224-255     448-510
```

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# ICLIDIDX

## 1. Description

This relation is used to index into the Individual Calling Line Identification relation that keeps track of billing for Calling Number and Calling Name Delivery.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 28800 |
| expected number of tuples | 45 |
| density | 4 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| l1 length of subkey 1 | 1 |
| p1 position of subkey 1 | 16 |
| l2 length of subkey 2 | 16 |
| p2 position of subkey 2 | 0 |
| ks key store | AUTO |
| trigger function | RTrc_iclid |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
ICLIDIDX    relid = 1109  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     ltm_idx     DMLTM_IDX    (ulong: 16)     <--- key
 (a) ltm_type    DMLTM_TYPE   (enum: 1)     <--- key
     lead_module  DMMODULE     (ushort: 8)
 (b) ffcf5       DMUNS2       (ushort: 2)
 (c) ffcf6       DMUNS2       (ushort: 2)
 (d) ama_rec     DMBOOL       (enum: 1)
 (e) cnama_rec   DMBOOL       (enum: 1)
 (f) ffcf1       DMBOOL       (enum: 1)
     ic_idx      DMIC_IDX     (ushort: 16)
 (g) ffcf2       DMBOOL       (enum: 1)
 (h) ffcf3       DMBOOL       (enum: 1)
 (i) ffcf4       DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout   ICLIDIDX
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               | |               |   |   | | | |
  0 |            ltm_idx            |a|  lead_module  | b | c |d|e|f|
    |---------------+---------------+---------------+---------------|
    |                               | | | |                         |
  4 |             ic_idx            |g|h|i|*************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLiclididx

**Relation Description:** ICLID index

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This relation is used to index into the Individual Calling Line Identification relation that keeps track of billing for Calling Number Delivery and Analog Calling Name Delivery.

**Attribute: ltm_idx**

**Fullname:** logical termination index

**Attribute Description** This is a RC/ODA assigned value. See RLrc_qidx for rules for assigning the value. This index is a sequential number assigned to correspond to a DN. As discussed in RLrc_qidx, the existence of an index implies the value 1 or greater. If no index is defined, RLrc_qidx would contain an ltm_idx value of 0 and no tuple would exist in this relation. Therefore, ltm_idx must be greater than 0 in this relation.

**Attribute: ltm_type**

**Fullname:** logical termination index type

**Attribute Description** this is a logical termination index type.

**Attribute: ic_idx**

**Fullname:** ICLID index

**Attribute Description** This is an index used by ICLID to keep track of Calling Number and Calling Name Delivery counts for billing. It will be used to index into the dynamic relation RLcnddata which will contain the CND counts and the dynamic relation RLcnamdata which will contain the CNAM counts.

**Attribute: ama_rec**

**Fullname:** billing type

**Attribute Description** Type of billing to be performed. This billing can be done on a flat rate or usage sensitive basis according to how the subscribing user prefers to be billed. If ama_rec is set to DBYES, the billing will be done on a usage sensitive basis. If it is set to DBNO, the billing will be done on a flat rate basis.

**Attribute: cnama_rec**

**Fullname:** Analog Calling Name Delivery billing type

**Attribute Description** Type of billing to be performed for the Analog Calling Name Delivery Special feature (SFID 40). This billing can be done on a flat rate or usage sensitive basis according to how the subscribing user prefers to be billed. If cnama_rec is set to DBYES, the billing will be done on a usage sensitive basis. If it is set to DBNO, the billing will be done on a flat rate basis.

**Attribute: lead_module**

**Fullname:** lead switching module

**Attribute Description** Identifies the lead module where the CND group resides

**Attribute: ffcf1**

**Fullname:** Boolean reserved for future filed feature.

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**Attribute Description** See fullname description.

**Attribute: ffcf2**

**Fullname:** Boolean reserved for future field feature.

**Attribute Description** See fullname description.

**Attribute: ffcf3**

**Fullname:** Boolean reserved for future field feature.

**Attribute Description** See fullname description.

**Attribute: ffcf4**

**Fullname:** Boolean reserved for future field feature.

**Attribute Description** See fullname description.

**Attribute: ffcf5**

**Fullname:** unsigned 2 reserved for future special feature use

**Attribute Description** Not assigned yet

**Attribute: ffcf6**

**Fullname:** unsigned 2 reserved for future special feature use

**Attribute Description** Not assigned yet

**Defines:**"db/DMparty.h"

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# ICM_1LST

## 1. Description

This relation provides in groups of ten the Directory Numbers (DNs), stored in LOCDN associated with a one digit ISDN Intercom group or a two digits ISDN Intercom group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 40950 |
| expected tuples in relation | 1500 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
ICM_1LST    relid = 884   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP
     range        DMDIGT       (uchar: 4)     <--- key
     icmgrp       DMICMGRP     (ushort: 12)     <--- key
     pad0         DMDIGCNT     (uchar: 4)
     digcnt0      DMDIGCNT     (uchar: 4)
     pad1         DMDIGCNT     (uchar: 4)
     digcnt1      DMDIGCNT     (uchar: 4)
     pad2         DMDIGCNT     (uchar: 4)
     digcnt2      DMDIGCNT     (uchar: 4)
     pad3         DMDIGCNT     (uchar: 4)
     digcnt3      DMDIGCNT     (uchar: 4)
     pad4         DMDIGCNT     (uchar: 4)
     digcnt4      DMDIGCNT     (uchar: 4)
     pad5         DMDIGCNT     (uchar: 4)
     digcnt5      DMDIGCNT     (uchar: 4)
     pad6         DMDIGCNT     (uchar: 4)
     digcnt6      DMDIGCNT     (uchar: 4)
     pad7         DMDIGCNT     (uchar: 4)
     digcnt7      DMDIGCNT     (uchar: 4)
     pad8         DMDIGCNT     (uchar: 4)
     digcnt8      DMDIGCNT     (uchar: 4)
     pad9         DMDIGCNT     (uchar: 4)
     digcnt9      DMDIGCNT     (uchar: 4)
     dn0          DMLOCDN      (struct)     <--- compacted
         noc          DMNOC        (ushort: 14)
         digits       DMLOCDIG     (array [ 4 ] of char )
     dn1          DMLOCDN      (struct)     <--- compacted
         noc          DMNOC        (ushort: 14)
         digits       DMLOCDIG     (array [ 4 ] of char )
     dn2          DMLOCDN      (struct)     <--- compacted
         noc          DMNOC        (ushort: 14)
         digits       DMLOCDIG     (array [ 4 ] of char )
     dn3          DMLOCDN      (struct)     <--- compacted
         noc          DMNOC        (ushort: 14)
         digits       DMLOCDIG     (array [ 4 ] of char )
```

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```
    dn4         DMLOCDN      (struct)     <--- compacted
        noc         DMNOC        (ushort: 14)
        digits      DMLOCDIG     (array [ 4 ] of char )
    dn5         DMLOCDN      (struct)     <--- compacted
        noc         DMNOC        (ushort: 14)
        digits      DMLOCDIG     (array [ 4 ] of char )
    dn6         DMLOCDN      (struct)     <--- compacted
        noc         DMNOC        (ushort: 14)
        digits      DMLOCDIG     (array [ 4 ] of char )
    dn7         DMLOCDN      (struct)     <--- compacted
        noc         DMNOC        (ushort: 14)
        digits      DMLOCDIG     (array [ 4 ] of char )
    dn8         DMLOCDN      (struct)     <--- compacted
        noc         DMNOC        (ushort: 14)
        digits      DMLOCDIG     (array [ 4 ] of char )
    dn9         DMLOCDN      (struct)     <--- compacted
        noc         DMNOC        (ushort: 14)
        digits      DMLOCDIG     (array [ 4 ] of char )
           User Tuple Layout      ICM_1LST
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |       |                       |       |       |       |       |
 0 | range |         icmgrp        |  pad0 |digcnt0|  pad1 |digcnt1|
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 4 |  pad2 |digcnt2|  pad3 |digcnt3|  pad4 |digcnt4|  pad5 |digcnt5|
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 8 |  pad6 |digcnt6|  pad7 |digcnt7|  pad8 |digcnt8|  pad9 |digcnt9|
   |===============+============= dn0 =============+===============|
   |   |                           |                               |
12 |***|            noc            |             digits            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
16 |             digits            |*******************************|
   |===============+============= dn1 =============+===============|
   |   |                           |                               |
20 |***|            noc            |             digits            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
24 |             digits            |*******************************|
   |===============+============= dn2 =============+===============|
   |   |                           |                               |
28 |***|            noc            |             digits            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
32 |             digits            |*******************************|
   |===============+============= dn3 =============+===============|
   |   |                           |                               |
36 |***|            noc            |             digits            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
40 |             digits            |*******************************|
```

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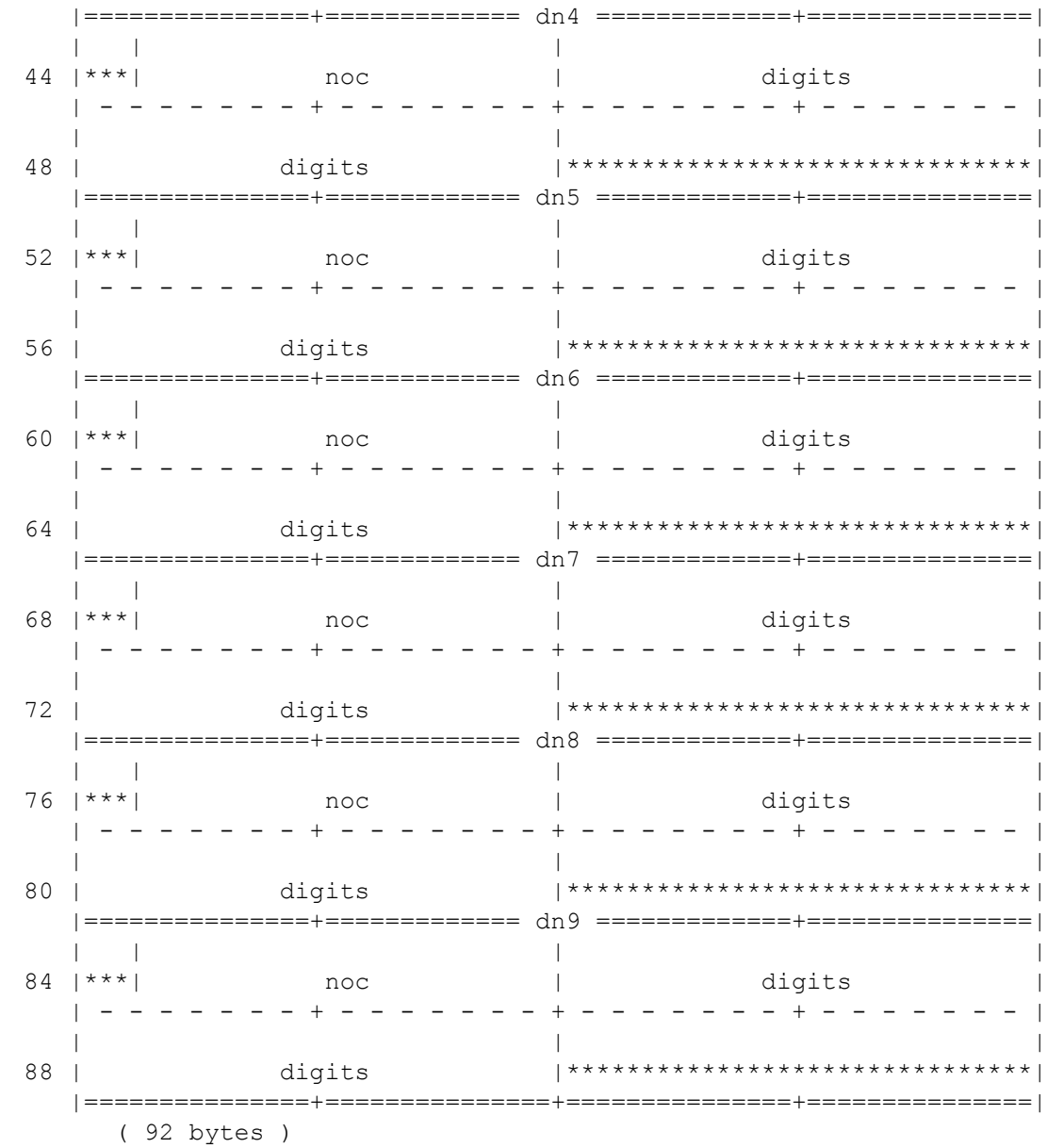


( 92 bytes )

| | | | |
|---|---|---|---|
| range | DMDIGT | (uchar: 4) | <--- key |
| icmgrp | DMICMGRP | (ushort: 12) | <--- key |
| pad0 | DMDIGCNT | (uchar: 4) | |
| digcnt0 | DMDIGCNT | (uchar: 4) | |
| pad1 | DMDIGCNT | (uchar: 4) | |
| digcnt1 | DMDIGCNT | (uchar: 4) | |
| pad2 | DMDIGCNT | (uchar: 4) | |
| digcnt2 | DMDIGCNT | (uchar: 4) | |
| pad3 | DMDIGCNT | (uchar: 4) | |
| digcnt3 | DMDIGCNT | (uchar: 4) | |
| pad4 | DMDIGCNT | (uchar: 4) | |
| digcnt4 | DMDIGCNT | (uchar: 4) | |
| pad5 | DMDIGCNT | (uchar: 4) | |
| digcnt5 | DMDIGCNT | (uchar: 4) | |
| pad6 | DMDIGCNT | (uchar: 4) | |
| digcnt6 | DMDIGCNT | (uchar: 4) | |

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```
pad7        DMDIGCNT     (uchar: 4)
digcnt7     DMDIGCNT     (uchar: 4)
pad8        DMDIGCNT     (uchar: 4)
digcnt8     DMDIGCNT     (uchar: 4)
pad9        DMDIGCNT     (uchar: 4)
digcnt9     DMDIGCNT     (uchar: 4)
dn0         DMCLOCDN     (struct)     <--- compacted
    noc         DMNOC        (ushort: 14)
    dig3        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
dn1         DMCLOCDN     (struct)     <--- compacted
    noc         DMNOC        (ushort: 14)
    dig3        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
dn2         DMCLOCDN     (struct)     <--- compacted
    noc         DMNOC        (ushort: 14)
    dig3        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
dn3         DMCLOCDN     (struct)     <--- compacted
    noc         DMNOC        (ushort: 14)
    dig3        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
dn4         DMCLOCDN     (struct)     <--- compacted
    noc         DMNOC        (ushort: 14)
    dig3        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
dn5         DMCLOCDN     (struct)     <--- compacted
    noc         DMNOC        (ushort: 14)
    dig3        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
dn6         DMCLOCDN     (struct)     <--- compacted
    noc         DMNOC        (ushort: 14)
    dig3        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
dn7         DMCLOCDN     (struct)     <--- compacted
    noc         DMNOC        (ushort: 14)
    dig3        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
```

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```
    dn8          DMCLOCDN      (struct)      <--- compacted
        noc          DMNOC         (ushort: 14)
        dig3         DMUNS4        (ushort: 4)
        dig1         DMUNS4        (ushort: 4)
        dig4         DMUNS4        (ushort: 4)
        dig2         DMUNS4        (ushort: 4)
    dn9          DMCLOCDN      (struct)      <--- compacted
        noc          DMNOC         (ushort: 14)
        dig3         DMUNS4        (ushort: 4)
        dig1         DMUNS4        (ushort: 4)
        dig4         DMUNS4        (ushort: 4)
        dig2         DMUNS4        (ushort: 4)
         Compacted Tuple Layout   ICM_1LST
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |       |                       |       |       |       |       |
 0 | range |         icmgrp        |  pad0 |digcnt0|  pad1 |digcnt1|
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 4 |  pad2 |digcnt2|  pad3 |digcnt3|  pad4 |digcnt4|  pad5 |digcnt5|
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 8 |  pad6 |digcnt6|  pad7 |digcnt7|  pad8 |digcnt8|  pad9 |digcnt9|
   |===============+============= dn0 =============+===============|
   |   |                           |       |       |       |       |
12 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
   |===============+============= dn1 =============+===============|
   |   |                           |       |       |       |       |
16 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
   |===============+============= dn2 =============+===============|
   |   |                           |       |       |       |       |
20 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
   |===============+============= dn3 =============+===============|
   |   |                           |       |       |       |       |
24 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
   |===============+============= dn4 =============+===============|
   |   |                           |       |       |       |       |
28 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
   |===============+============= dn5 =============+===============|
   |   |                           |       |       |       |       |
32 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
   |===============+============= dn6 =============+===============|
   |   |                           |       |       |       |       |
36 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
   |===============+============= dn7 =============+===============|
   |   |                           |       |       |       |       |
40 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
   |===============+============= dn8 =============+===============|
   |   |                           |       |       |       |       |
44 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
   |===============+============= dn9 =============+===============|
   |   |                           |       |       |       |       |
48 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
```

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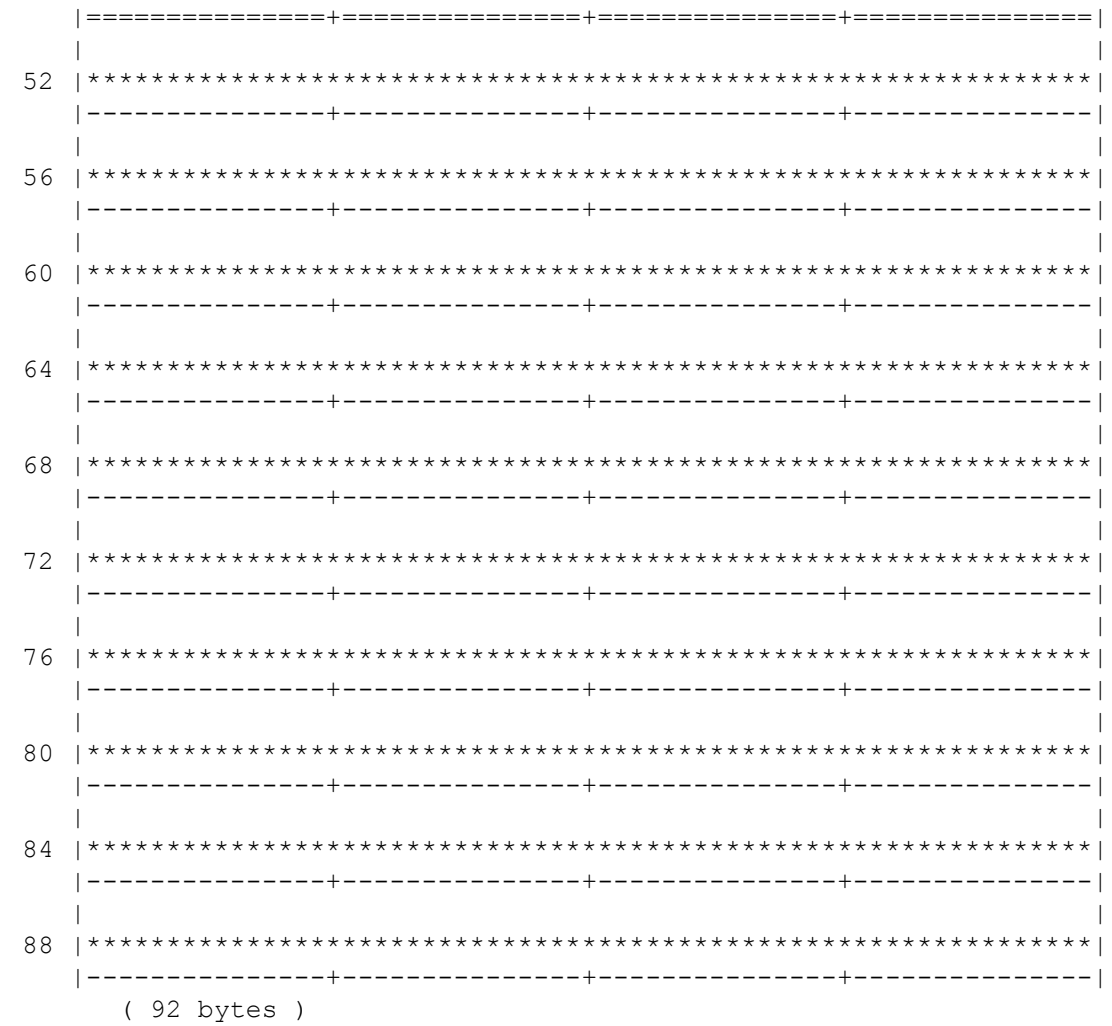

```
   ( 92 bytes )
range       DMDIGT       (uchar: 4)     <--- key
icmgrp      DMICMGRP     (ushort: 12)     <--- key
pad0        DMDIGCNT     (uchar: 4)
digcnt0     DMDIGCNT     (uchar: 4)
pad1        DMDIGCNT     (uchar: 4)
digcnt1     DMDIGCNT     (uchar: 4)
pad2        DMDIGCNT     (uchar: 4)
digcnt2     DMDIGCNT     (uchar: 4)
pad3        DMDIGCNT     (uchar: 4)
digcnt3     DMDIGCNT     (uchar: 4)
pad4        DMDIGCNT     (uchar: 4)
digcnt4     DMDIGCNT     (uchar: 4)
pad5        DMDIGCNT     (uchar: 4)
digcnt5     DMDIGCNT     (uchar: 4)
pad6        DMDIGCNT     (uchar: 4)
digcnt6     DMDIGCNT     (uchar: 4)
pad7        DMDIGCNT     (uchar: 4)
digcnt7     DMDIGCNT     (uchar: 4)
pad8        DMDIGCNT     (uchar: 4)
digcnt8     DMDIGCNT     (uchar: 4)
pad9        DMDIGCNT     (uchar: 4)
digcnt9     DMDIGCNT     (uchar: 4)
```

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```
dn0          DMCLOCDN     (struct)     <--- compacted
    noc          DMNOC        (ushort: 14)
    dig3         DMUNS4       (ushort: 4)
    dig1         DMUNS4       (ushort: 4)
    dig4         DMUNS4       (ushort: 4)
    dig2         DMUNS4       (ushort: 4)
dn1          DMCLOCDN     (struct)     <--- compacted
    noc          DMNOC        (ushort: 14)
    dig3         DMUNS4       (ushort: 4)
    dig1         DMUNS4       (ushort: 4)
    dig4         DMUNS4       (ushort: 4)
    dig2         DMUNS4       (ushort: 4)
dn2          DMCLOCDN     (struct)     <--- compacted
    noc          DMNOC        (ushort: 14)
    dig3         DMUNS4       (ushort: 4)
    dig1         DMUNS4       (ushort: 4)
    dig4         DMUNS4       (ushort: 4)
    dig2         DMUNS4       (ushort: 4)
dn3          DMCLOCDN     (struct)     <--- compacted
    noc          DMNOC        (ushort: 14)
    dig3         DMUNS4       (ushort: 4)
    dig1         DMUNS4       (ushort: 4)
    dig4         DMUNS4       (ushort: 4)
    dig2         DMUNS4       (ushort: 4)
dn4          DMCLOCDN     (struct)     <--- compacted
    noc          DMNOC        (ushort: 14)
    dig3         DMUNS4       (ushort: 4)
    dig1         DMUNS4       (ushort: 4)
    dig4         DMUNS4       (ushort: 4)
    dig2         DMUNS4       (ushort: 4)
dn5          DMCLOCDN     (struct)     <--- compacted
    noc          DMNOC        (ushort: 14)
    dig3         DMUNS4       (ushort: 4)
    dig1         DMUNS4       (ushort: 4)
    dig4         DMUNS4       (ushort: 4)
    dig2         DMUNS4       (ushort: 4)
dn6          DMCLOCDN     (struct)     <--- compacted
    noc          DMNOC        (ushort: 14)
    dig3         DMUNS4       (ushort: 4)
    dig1         DMUNS4       (ushort: 4)
    dig4         DMUNS4       (ushort: 4)
    dig2         DMUNS4       (ushort: 4)
dn7          DMCLOCDN     (struct)     <--- compacted
    noc          DMNOC        (ushort: 14)
    dig3         DMUNS4       (ushort: 4)
    dig1         DMUNS4       (ushort: 4)
    dig4         DMUNS4       (ushort: 4)
    dig2         DMUNS4       (ushort: 4)
dn8          DMCLOCDN     (struct)     <--- compacted
    noc          DMNOC        (ushort: 14)
    dig3         DMUNS4       (ushort: 4)
    dig1         DMUNS4       (ushort: 4)
    dig4         DMUNS4       (ushort: 4)
    dig2         DMUNS4       (ushort: 4)
```

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```
     dn9          DMCLOCDN      (struct)     <--- compacted
         noc          DMNOC         (ushort: 14)
         dig3         DMUNS4        (ushort: 4)
         dig1         DMUNS4        (ushort: 4)
         dig4         DMUNS4        (ushort: 4)
         dig2         DMUNS4        (ushort: 4)
           Stored Tuple Layout      ICM_1LST
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |       |                       |       |       |       |       |
  0 | range |         icmgrp        |  pad0 |digcnt0|  pad1 |digcnt1|
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
  4 |  pad2 |digcnt2|  pad3 |digcnt3|  pad4 |digcnt4|  pad5 |digcnt5|
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
  8 |  pad6 |digcnt6|  pad7 |digcnt7|  pad8 |digcnt8|  pad9 |digcnt9|
    |===============+============= dn0 =============+===============|
    |   |                           |       |       |       |       |
 12 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
    |===============+============= dn1 =============+===============|
    |   |                           |       |       |       |       |
 16 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
    |===============+============= dn2 =============+===============|
    |   |                           |       |       |       |       |
 20 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
    |===============+============= dn3 =============+===============|
    |   |                           |       |       |       |       |
 24 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
    |===============+============= dn4 =============+===============|
    |   |                           |       |       |       |       |
 28 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
    |===============+============= dn5 =============+===============|
    |   |                           |       |       |       |       |
 32 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
    |===============+============= dn6 =============+===============|
    |   |                           |       |       |       |       |
 36 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
    |===============+============= dn7 =============+===============|
    |   |                           |       |       |       |       |
 40 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
    |===============+============= dn8 =============+===============|
    |   |                           |       |       |       |       |
 44 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
    |===============+============= dn9 =============+===============|
    |   |                           |       |       |       |       |
 48 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
    |===============+===============+===============+===============|
       ( 52 bytes )
domain alICM_1LST struct  (4 sub-attributes)
        range       .29.fake     (uchar: 4)
        icmgrp      .30.fake     (ushort: 12)
        digcnt      .31.fake     (array [ 10 ] of unsigned char )
```

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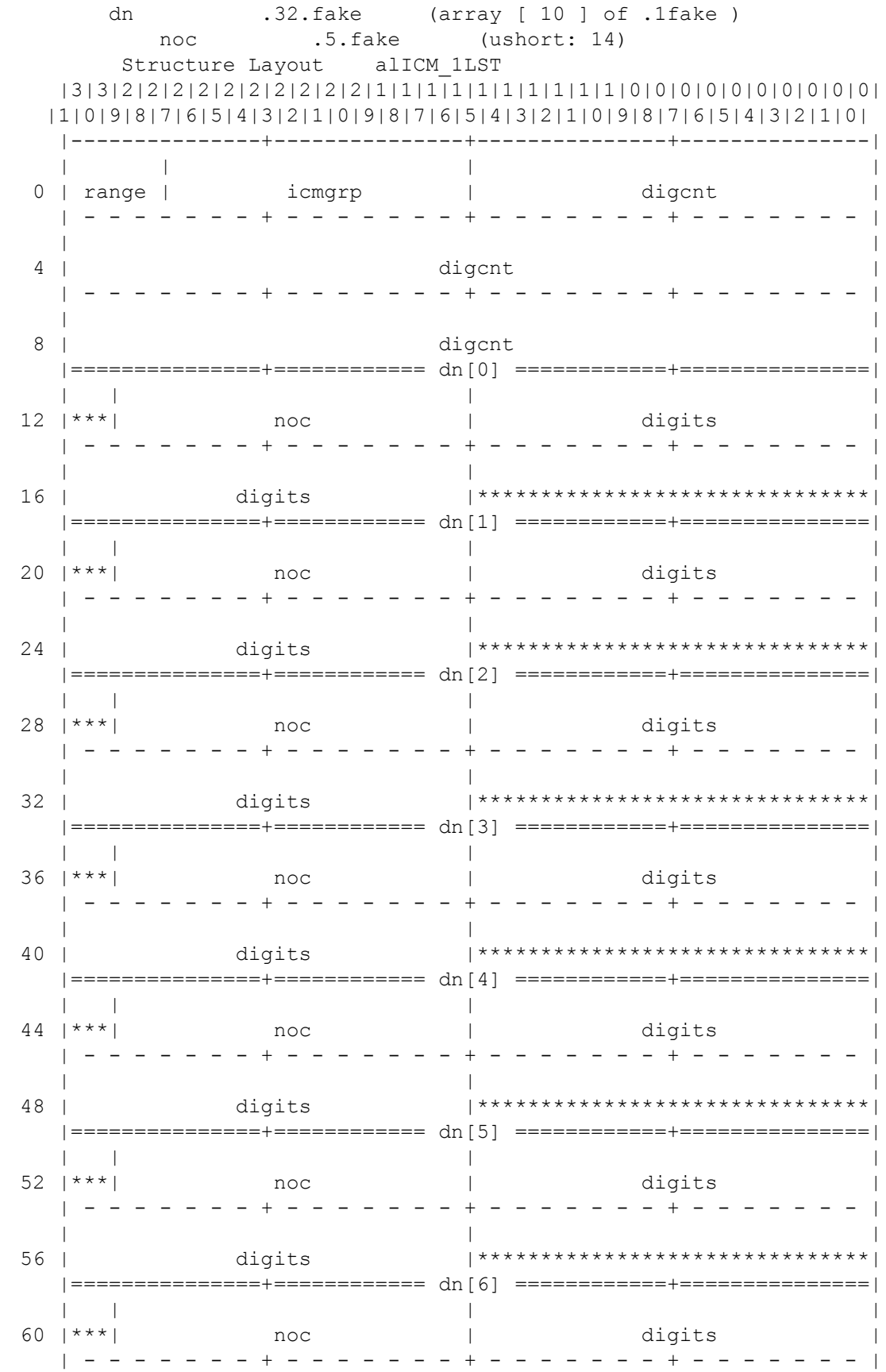
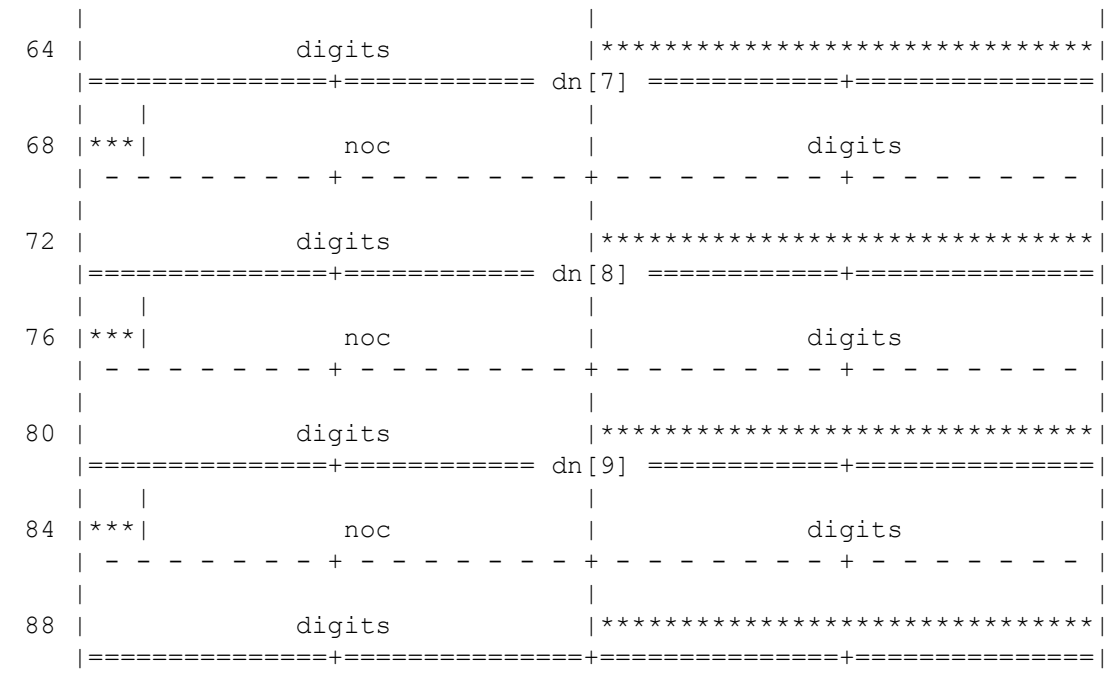

dn .32.fake (array [ 10 ] of .1fake )
noc .5.fake (ushort: 14)
Structure Layout alICM_1LST
range
icmgrp
digcnt
digcnt
digcnt
dn[0]
noc
digits
digits
dn[1]
noc
digits
digits
dn[2]
noc
digits
digits
dn[3]
noc
digits
digits
dn[4]
noc
digits
digits
dn[5]
noc
digits
digits
dn[6]
noc
digits




## 4. Population Rules for RLicm_1lst

**Relation Description:** Intercom list.

This relation provides in groups of ten the Directory numbers(DNs), associated with an ISDN Intercom group.

**Attribute: range**

**Fullname:** range.

**Attribute Description** Index to choose tens block (indicated by tens dialing digit) to access.

**Attribute: icmgrp**

**Fullname:** ISDN Intercom groups.

**Attribute Description** To define the maximum number of ISDN Intercom groups.

**Attribute: dn0**

**Fullname:** Directory Number

**Attribute Description** Ten Directory Numbers are stored in DMLOCDN format (noc and 4 digits). These DNs are associated with an Intercom group. dn(X) identifies the dn associated with dialed code X. digit DN. ([1-9][0-9]*6)

***NOTE:*** DNs beginning with a 1 (that is, 107-XXXX) are currently being used by a customer who has a modified dialing plan. The poprules should allow these valid DNs to be inserted into ICOM groups.

Customers who follow the standard North America dialing plan should not insert DNs beginning with a 1, assuming they had DNs beginning with a 1 which is highly unlikely,

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into ICOM groups because digit analysis will time out when analyzing the DN.

Each dn must be primary on an ISDN terminal with class of service = FC_ISDN . ( A DN is primary when the tuple in RLis_line keyed by the lead_module and ltm_idxi of this dn has the primary attribute set to DBYES.) The terminal on which this DN is primary must have an ISDN Intercom feature (fid= 0x7000 - 0x73ff) assigned in the RLtrmfeats relation only for Feature Button ICOM (FB-ICOM). For Call Appearance ICOM (CA-ICOM), no such entry is required in RLtrmfeats relation. The terminal also must be associated with this icmgrp via terminal (line) parameters, that is, this icmgrp must be assigned in the RLicm_term tuple keyed by is_line.lead_lport. Only for FB-ICOM, this dn also must be assigned in RLdn_feats to the tgid (terminal group) associated with this ISDN Intercom group in the RLicm_grp relation. The dn must exist in this office, that is, FB-ICOM is an intraoffice, intraterminal group feature. For CA-ICOM there will not exist a RLdn_feats tuple. The TGSR restriction does not apply to CA-ICOM. A dn should be entered in this field only if the slot field of the line parameters (RLicm_term) contain a number correspond to this dn, and this range (RLicm_term.grpdataX.slot/10).

***NOTE:*** NOTE: Each primary TN should be unique per ICM group. That rule is not implemented in PRL.

**Attribute: dn0.noc**

**Fullname:** normalized office code

**Attribute Description** This sub-attribute is the normalized office code for first of ten DNs (dn0-dn9).

**Attribute: dn0.digits**

**Fullname:** last 4 digits of DN

**Attribute Description** This sub-attribute contains the last 4 digits of the first of ten DNs (dn0-dn9).

**Attribute: dn[*]**

**Fullname:** Directory Number

**Attribute Description** See the previous usage for dn0.

**Attribute: dn[*].noc**

**Fullname:** normalized office code of nth DN.

**Attribute Description** This sub-attribute contains the normalized office code for the nth DN.

**Attribute: dn[*].digits**

**Fullname:** last 4 digits of nth DN

**Attribute Description** This sub-attribute contains the last 4 digits of the nth DN.

**Attribute: digcnt0**

**Fullname:** unused attribute

**Attribute Description** unused attribute - default to zero

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**Attribute: digcnt[*]**

**Fullname:** unused attribute

**Attribute Description** unused attribute - default to zero

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# ICM_CFDF

## 1. Description

This relation is used to populate the default values for the ICOM feature when feature assignment invokes the line parameter mapping code.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| expected number of tuples | 2 |
| density | 29 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | DBNO |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
ICM_CFDF    relid = 889   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     fid          DMFID         (ushort: 10)  <--- key, not stored
 (a) amac         DMBOOL        (enum: 1)
     grpdata1     DMGRPDATA     (struct)
         icmgrp       DMFACID       (ushort)
         ones         DMDIGT        (uchar: 4)
         tens         DMDIGT        (uchar: 4)
 (b)     icmtype      DMICMTYPE     (enum: 2)
 (c)     insrc        DMINSRC       (enum: 2)
         slot         DMUNS7        (ushort: 7)
         ltmidxi      DMLTM_IDX     (ulong: 16)
     grpdata2     DMGRPDATA     (struct)
         icmgrp       DMFACID       (ushort)
         ones         DMDIGT        (uchar: 4)
         tens         DMDIGT        (uchar: 4)
 (d)     icmtype      DMICMTYPE     (enum: 2)
 (e)     insrc        DMINSRC       (enum: 2)
         slot         DMUNS7        (ushort: 7)
         ltmidxi      DMLTM_IDX     (ulong: 16)
     grpdata3     DMGRPDATA     (struct)
         icmgrp       DMFACID       (ushort)
         ones         DMDIGT        (uchar: 4)
         tens         DMDIGT        (uchar: 4)
 (f)     icmtype      DMICMTYPE     (enum: 2)
 (g)     insrc        DMINSRC       (enum: 2)
         slot         DMUNS7        (ushort: 7)
         ltmidxi      DMLTM_IDX     (ulong: 16)
     grpdata4     DMGRPDATA     (struct)
         icmgrp       DMFACID       (ushort)
         ones         DMDIGT        (uchar: 4)
         tens         DMDIGT        (uchar: 4)
 (h)     icmtype      DMICMTYPE     (enum: 2)
 (i)     insrc        DMINSRC       (enum: 2)
```

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```
        slot        DMUNS7       (ushort: 7)
        ltmidxi     DMLTM_IDX    (ulong: 16)
        User and Compacted Tuple Layout   ICM_CFDF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
 0  |         fid       |*******************************************|
    |---------------+---------------+---------------+---------------|
    | |                                                             |
 4  |a|*************************************************************|
    |===============+==========  grpdata1 ==========+===============|
    |                               |       |       |   |   |       |
 8  |             icmgrp            |  ones |  tens | b | c |*******|
    |---------------+---------------+---------------+---------------|
    |             |                                 |               |
12  |     slot    |            ltmidxi              |***************|
    |===============+==========  grpdata2 ==========+===============|
    |                               |       |       |   |   |       |
16  |             icmgrp            |  ones |  tens | d | e |*******|
    |---------------+---------------+---------------+---------------|
    |             |                                 |               |
20  |     slot    |            ltmidxi              |***************|
    |===============+==========  grpdata3 ==========+===============|
    |                               |       |       |   |   |       |
24  |             icmgrp            |  ones |  tens | f | g |*******|
    |---------------+---------------+---------------+---------------|
    |             |                                 |               |
28  |     slot    |            ltmidxi              |***************|
    |===============+==========  grpdata4 ==========+===============|
    |                               |       |       |   |   |       |
32  |             icmgrp            |  ones |  tens | h | i |*******|
    |---------------+---------------+---------------+---------------|
    |             |                                 |               |
36  |     slot    |            ltmidxi              |***************|
    |===============+===============+===============+===============|
      ( 40 bytes )
(a) amac         DMBOOL       (enum: 1)
    grpdata1     DMGRPDATA    (struct)
        icmgrp       DMFACID      (ushort)
        ones         DMDIGT       (uchar: 4)
        tens         DMDIGT       (uchar: 4)
(b)     icmtype      DMICMTYPE    (enum: 2)
(c)     insrc        DMINSRC      (enum: 2)
        slot         DMUNS7       (ushort: 7)
        ltmidxi      DMLTM_IDX    (ulong: 16)
    grpdata2     DMGRPDATA    (struct)
        icmgrp       DMFACID      (ushort)
        ones         DMDIGT       (uchar: 4)
        tens         DMDIGT       (uchar: 4)
(d)     icmtype      DMICMTYPE    (enum: 2)
(e)     insrc        DMINSRC      (enum: 2)
        slot         DMUNS7       (ushort: 7)
        ltmidxi      DMLTM_IDX    (ulong: 16)
```

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```
     grpdata3    DMGRPDATA    (struct)
         icmgrp      DMFACID      (ushort)
         ones        DMDIGT       (uchar: 4)
         tens        DMDIGT       (uchar: 4)
 (f)     icmtype     DMICMTYPE    (enum: 2)
 (g)     insrc       DMINSRC      (enum: 2)
         slot        DMUNS7       (ushort: 7)
         ltmidxi     DMLTM_IDX    (ulong: 16)
     grpdata4    DMGRPDATA    (struct)
         icmgrp      DMFACID      (ushort)
         ones        DMDIGT       (uchar: 4)
         tens        DMDIGT       (uchar: 4)
 (h)     icmtype     DMICMTYPE    (enum: 2)
 (i)     insrc       DMINSRC      (enum: 2)
         slot        DMUNS7       (ushort: 7)
         ltmidxi     DMLTM_IDX    (ulong: 16)
           Stored Tuple Layout     ICM_CFDF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | |                                                             |
  0 |a|*************************************************************|
    |===============+==========  grpdata1 ==========+===============|
    |                               |       |       |   |   |       |
  4 |              icmgrp           |  ones |  tens | b | c |*******|
    |---------------+---------------+---------------+---------------|
    |               |                               |               |
  8 |     slot      |            ltmidxi            |***************|
    |===============+==========  grpdata2 ==========+===============|
    |                               |       |       |   |   |       |
 12 |              icmgrp           |  ones |  tens | d | e |*******|
    |---------------+---------------+---------------+---------------|
    |               |                               |               |
 16 |     slot      |            ltmidxi            |***************|
    |===============+==========  grpdata3 ==========+===============|
    |                               |       |       |   |   |       |
 20 |              icmgrp           |  ones |  tens | f | g |*******|
    |---------------+---------------+---------------+---------------|
    |               |                               |               |
 24 |     slot      |            ltmidxi            |***************|
    |===============+==========  grpdata4 ==========+===============|
    |                               |       |       |   |   |       |
 28 |              icmgrp           |  ones |  tens | h | i |*******|
    |---------------+---------------+---------------+---------------|
    |               |                               |               |
 32 |     slot      |            ltmidxi            |***************|
    |===============+===============+===============+===============|
       ( 36 bytes )
domain alICM_CFDF   struct  (3 sub-attributes)
         fid         .5.fake      (ushort: 10)
 (a)     amac        .0fake       (enum)
         grpdata     .6.fake      (array [ 4 ] of .3fake )
             icmgrp      unsigned short (ushort)
             ones        .0.fake      (uchar: 4)
```

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```
            tens        .1.fake      (uchar: 4)
 (b)        icmtype     .2fake       (enum)
 (c)        insrc       .1fake       (enum)
            slot        .2.fake      (ushort: 7)
            ltmidxi     .3.fake      (ulong)
        Structure Layout      alICM_CFDF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                   |                                           |
 0 |        fid        |*******************************************|
   |---------------+---------------+---------------+---------------|
   | |                                                             |
 4 |a|*************************************************************|
   |===============+=========  grpdata[0] =========+===============|
   |                                 |       |       |   |   |       |
 8 |             icmgrp              |  ones |  tens | b | c |*******|
   |---------------+---------------+---------------+---------------|
   |             |                                   |               |
12 |     slot    |             ltmidxi               |***************|
   |===============+=========  grpdata[1] =========+===============|
   |                                 |       |       |   |   |       |
16 |             icmgrp              |  ones |  tens | b | c |*******|
   |---------------+---------------+---------------+---------------|
   |             |                                   |               |
20 |     slot    |             ltmidxi               |***************|
   |===============+=========  grpdata[2] =========+===============|
   |                                 |       |       |   |   |       |
24 |             icmgrp              |  ones |  tens | b | c |*******|
   |---------------+---------------+---------------+---------------|
   |             |                                   |               |
28 |     slot    |             ltmidxi               |***************|
   |===============+=========  grpdata[3] =========+===============|
   |                                 |       |       |   |   |       |
32 |             icmgrp              |  ones |  tens | b | c |*******|
   |---------------+---------------+---------------+---------------|
   |             |                                   |               |
36 |     slot    |             ltmidxi               |***************|
   |===============+===============+===============+===============|
      ( 40 bytes )
```

## 4. Population Rules for RLicm_cfdf

**Relation Description:** ISDN Intercom Constructed Feature Definition.

This relation provides the default line (terminal) parameters which are used to populate RLicm_term when feature assignment assigns an ISDN Intercom feature to a terminal.

PRECONSTRUCTED FEATURE

```
ISDN Intercom has two preconstructed features, /ICM and /IC*.
/ICM feature has null default parameters, that is,
icm_cfdf.grpdata[0-3]].icmgrp = 0.
/IC* feature is identical to /ICM, but has a  value of
0x7001 and is used in configuration group
```

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```
population.  It is the icom wild card feature.
icm_cfdf.fid = 1
icm_cfdf.amac = DBYES
rest of relation defaults
icm_cfdf.grpdata[1-4].icmgrp = 0
icm_cfdf.grpdata[1-4].ones = 10
icm_cfdf.grpdata[1-4].tens = 10
icm_cfdf.grpdata[1-4].icmtype = NULL_DIG
icm_cfdf.grpdata[1-4].insrc = IS_INULL
icm_cfdf.grpdata[1-4].slot = 100

Attributes Dependencies Chart
============================
icmgrp  icmtype    insrc        tens    ones    slot    ltm_idx
======  =======    =====        ====    ====    ====    =======
  0     NULL_DIG   IS_NULL       10       10     100        0
 >0     ONE_DIG    IS_STORED      0      0-9     100        0
 >0     ONE_DIG    IS_DIALED     10       10     100        0
 >0     TWO_DIG    IS_STORED    0-9      0-9     100        0
 >0     TWO_DIG    IS_DIALED     10       10     100        0
```

**Attribute: fid**

**Fullname:** Feature Identification

**Attribute Description** A BRCS constructed feature ID consists of two parts when class = FACBRCS and subclass = SCL_FEAT: a modular feature type (top 6 bits: bits 10 - 15) and an unique identifier (bottom 10 bits: bits 0 - 9). The unique identifier ranges from 0x1 to 0x3ff).

```
Only the unique identifier is stored here since
the MFTYPE must equal MFICM.
Range: 0x1 to 0x3ff
Default Value: none
Dependencies:
     For an ICM constructed feature id, the
     modular feature type must equal MFICM (28
     = 0x1C), which is an enumeration of type DMMFTYPE.
     Verify that RLfid2name has a tuple such that:
        RLfid2name.facid = 0x7000 + fid
           (that is, top six bits = MFICM and bottom
            10 bits = fid)
        RLfid2name.class = FACBRCS
        RLfid2name.subclass = SCL_FEAT
      Verify that RLfacname has a tuple such that:
        RLfacname.facname = RLfid2name( with keys as
        described previously).name RLfacname.class = FACBRCS
```

**Attribute: amac**

**Fullname:** AMA Charging

**Attribute Description** Boolean value indicating whether flat rate AMA charging is applicable. This value is locked to DBYES

```
Range of values:
         DBYES - flat rate billing applies
```

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```
DBNO  - flat rate billing does not apply
```

**Attribute: grpdata[*]**

**Fullname:** Structure group data - repeated four times

**Attribute Description** Structure used for icmgrp, ones, tens, icmtype, inscr and slot.

**Attribute: grpdata[*].icmgrp**

**Fullname:** Intercom group associated with this terminal

**Attribute Description** Identifies the Intercom group associated with this terminal. Range: 0-1023 Default: 0 which implies no group assigned to this ICM feature.

```
Dependencies: Verify that RLfacname has a tuple such that:
      RLfacname.facid = icmgrp
      RLfacname.class = FACICM1
      RLfacname.subclass = SCL_NULL
```

**Attribute: grpdata[*].ones**

**Fullname:** Index to access RLicm_1lst

**Attribute Description** Index to choose which slot in tens block to access. Dependencies: If insrc is IS_DIALED or IS_NULL then ones must be 10. Else value must be 0-9.

**Attribute: grpdata[*].tens**

**Fullname:** Index to access RLicm_1lst

**Attribute Description** Index (0-9) to choose which tens block to access.

**Attribute: grpdata[*].icmtype**

**Fullname:** Type of ISDN Intercom Group

**Attribute Description** To identify the type of ISDN Intercom (one digit/two digit).

**Attribute: grpdata[*].insrc**

**Fullname:** Source of digits for an ISDN Intercom Call

**Attribute Description** Source of digits for an ISDN Intercom Call

**Attribute: grpdata[*].slot**

**Fullname:** Slot number

**Attribute Description** Location of directory number in group list

**Attribute: grpdata[*].ltmidxi**

**Fullname:** Logical Termination Index

**Attribute Description** For FB-ICOM this field will always have a zero value, ltmidxi is not used for CA-ICOM. This was added here due to change needed in DMgrpdata domain for RLicm_term relation.

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# ICM_GRP

## 1. Description

This relation is used to associate an ISDN intercom group with business group, and a terminal group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4095 |
| expected tuples | 200 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |
| corcable | DBNO |

## 3. Field Layout

```
ICM_GRP     relid = 886   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     icmgrp      DMICMGRP     (ushort: 12)  <--- key, not stored
     tgid        DMUNS16      (ushort)
     icmbitmap   DMUNS10      (ushort: 10)
 (a) grptype     DMICMTYPE    (enum: 2)
         User and Compacted Tuple Layout    ICM_GRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                         |                                     |
  0 |          icmgrp         |*************************************|
    |---------------+---------------+---------------+---------------|
    |                                 |                     |   |       |
  4 |               tgid              |     icmbitmap       | a |*******|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     tgid        DMUNS16      (ushort)
     icmbitmap   DMUNS10      (ushort: 10)
 (a) grptype     DMICMTYPE    (enum: 2)
           Stored Tuple Layout      ICM_GRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                     |   |       |
  0 |               tgid              |     icmbitmap       | a |*******|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLicm_grp

**Relation Description**
There exists a tuple in this relation for each ISDN intercom group.

The group parameters are stored here while the dialing plans are stored in separate relations.

There exists a tuple in this relation for each ISDN intercom group. The group parameters are stored here while the

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dialing plans are in separate relations.

**Attribute: icmgrp**

**Fullname:** ISDN Intercom group identifier

**Attribute Description** Group range of values 1-4095.

**Attribute: grptype**

**Fullname:** ICOM group type

**Attribute Description** This attribute is to indicate the group type of the ISDN Intercom group.

**Attribute: icmbitmap**

**Fullname:** ICOM bit map

**Attribute Description** The corresponding bit position is set in this attribute to indicate which tens block (represented by tens dialing digits) in 2-digit Intercom group has been defined. The value of the key attribute (range) in RLicm_1lst can be obtained from icmbitmap.

```
For example: icm_grp.grptype = TWO_DIG
             icm_grp.icmbitmap = 16 (0000010000)
             icm_1lst.range = 4
```

**Attribute: tgid**

**Fullname:** Terminal group identifier

**Attribute Description** Indicates the terminal group identifier associated with the ISDN Intercom group.

```
     For each non-zero DN in the RLicm_1lst
     tuple keyed by icmgrp, there must exist,
     for feature button ICOM, a
     dnfeats(rt_dntran(dn).portname.module,
               rt_dntran(dn).ltm_type,
               rt_dntran(dn).ltm_idx, 0) tuple
     with dnfeats.tgid equal to icmgrp.tgid.
     For call appearance ICOM (CA-ICOM)
     this field can be set to any value,
     it is considered a do not care field.
```

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# ICM_TERM

## 1. Description

This relation associates a terminal with up to four ISDN Intercom groups.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8191 |
| expected number of tuples | 135 |
| density | 65 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | FCicm_term |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ks key store | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
ICM_TERM    relid = 887   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
 (a) termno      DMTERMNO     (uchar: 1)  <--- key, not stored
     lport       DMLPORT      (ushort: 16)  <--- key, not stored
     grpdata1    DMGRPDATA    (struct)
         icmgrp      DMFACID      (ushort)
         ones        DMDIGT       (uchar: 4)
         tens        DMDIGT       (uchar: 4)
 (b)     icmtype     DMICMTYPE    (enum: 2)
 (c)     insrc       DMINSRC      (enum: 2)
         slot        DMUNS7       (ushort: 7)
         ltmidxi     DMLTM_IDX    (ulong: 16)
     grpdata2    DMGRPDATA    (struct)
         icmgrp      DMFACID      (ushort)
         ones        DMDIGT       (uchar: 4)
         tens        DMDIGT       (uchar: 4)
 (d)     icmtype     DMICMTYPE    (enum: 2)
 (e)     insrc       DMINSRC      (enum: 2)
         slot        DMUNS7       (ushort: 7)
         ltmidxi     DMLTM_IDX    (ulong: 16)
     grpdata3    DMGRPDATA    (struct)
         icmgrp      DMFACID      (ushort)
         ones        DMDIGT       (uchar: 4)
         tens        DMDIGT       (uchar: 4)
 (f)     icmtype     DMICMTYPE    (enum: 2)
 (g)     insrc       DMINSRC      (enum: 2)
         slot        DMUNS7       (ushort: 7)
         ltmidxi     DMLTM_IDX    (ulong: 16)
     grpdata4    DMGRPDATA    (struct)
         icmgrp      DMFACID      (ushort)
         ones        DMDIGT       (uchar: 4)
         tens        DMDIGT       (uchar: 4)
 (h)     icmtype     DMICMTYPE    (enum: 2)
```

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```
(i)     insrc       DMINSRC      (enum: 2)
        slot        DMUNS7       (ushort: 7)
        ltmidxi     DMLTM_IDX    (ulong: 16)
        User and Compacted Tuple Layout   ICM_TERM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   | |                               |                               |
 0 |a|*****************************|             lport             |
   |===============+==========  grpdata1 ==========+===============|
   |                                 |       |       |   |   |       |
 4 |              icmgrp             |  ones |  tens | b | c |*******|
   |---------------+---------------+---------------+---------------|
   |               |                               |               |
 8 |     slot      |             ltmidxi           |*****************|
   |===============+==========  grpdata2 ==========+===============|
   |                                 |       |       |   |   |       |
12 |              icmgrp             |  ones |  tens | d | e |*******|
   |---------------+---------------+---------------+---------------|
   |               |                               |               |
16 |     slot      |             ltmidxi           |*****************|
   |===============+==========  grpdata3 ==========+===============|
   |                                 |       |       |   |   |       |
20 |              icmgrp             |  ones |  tens | f | g |*******|
   |---------------+---------------+---------------+---------------|
   |               |                               |               |
24 |     slot      |             ltmidxi           |*****************|
   |===============+==========  grpdata4 ==========+===============|
   |                                 |       |       |   |   |       |
28 |              icmgrp             |  ones |  tens | h | i |*******|
   |---------------+---------------+---------------+---------------|
   |               |                               |               |
32 |     slot      |             ltmidxi           |*****************|
   |===============+===============+===============+===============|
     ( 36 bytes )
    grpdata1    DMGRPDATA    (struct)
        icmgrp      DMFACID      (ushort)
        ones        DMDIGT       (uchar: 4)
        tens        DMDIGT       (uchar: 4)
(a)     icmtype     DMICMTYPE    (enum: 2)
(b)     insrc       DMINSRC      (enum: 2)
        slot        DMUNS7       (ushort: 7)
        ltmidxi     DMLTM_IDX    (ulong: 16)
    grpdata2    DMGRPDATA    (struct)
        icmgrp      DMFACID      (ushort)
        ones        DMDIGT       (uchar: 4)
        tens        DMDIGT       (uchar: 4)
(c)     icmtype     DMICMTYPE    (enum: 2)
(d)     insrc       DMINSRC      (enum: 2)
        slot        DMUNS7       (ushort: 7)
        ltmidxi     DMLTM_IDX    (ulong: 16)
    grpdata3    DMGRPDATA    (struct)
        icmgrp      DMFACID      (ushort)
        ones        DMDIGT       (uchar: 4)
```

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```
         tens        DMDIGT       (uchar: 4)
 (e)     icmtype     DMICMTYPE    (enum: 2)
 (f)     insrc       DMINSRC      (enum: 2)
         slot        DMUNS7       (ushort: 7)
         ltmidxi     DMLTM_IDX    (ulong: 16)
     grpdata4    DMGRPDATA    (struct)
         icmgrp      DMFACID      (ushort)
         ones        DMDIGT       (uchar: 4)
         tens        DMDIGT       (uchar: 4)
 (g)     icmtype     DMICMTYPE    (enum: 2)
 (h)     insrc       DMINSRC      (enum: 2)
         slot        DMUNS7       (ushort: 7)
         ltmidxi     DMLTM_IDX    (ulong: 16)
           Stored Tuple Layout     ICM_TERM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+==========  grpdata1 ==========+===============|
    |                                |       |       |   |   |       |
  0 |             icmgrp             |  ones |  tens | a | b |*******|
    |---------------+---------------+---------------+---------------|
    |               |                                |               |
  4 |     slot      |            ltmidxi             |***************|
    |===============+==========  grpdata2 ==========+===============|
    |                                |       |       |   |   |       |
  8 |             icmgrp             |  ones |  tens | c | d |*******|
    |---------------+---------------+---------------+---------------|
    |               |                                |               |
 12 |     slot      |            ltmidxi             |***************|
    |===============+==========  grpdata3 ==========+===============|
    |                                |       |       |   |   |       |
 16 |             icmgrp             |  ones |  tens | e | f |*******|
    |---------------+---------------+---------------+---------------|
    |               |                                |               |
 20 |     slot      |            ltmidxi             |***************|
    |===============+==========  grpdata4 ==========+===============|
    |                                |       |       |   |   |       |
 24 |             icmgrp             |  ones |  tens | g | h |*******|
    |---------------+---------------+---------------+---------------|
    |               |                                |               |
 28 |     slot      |            ltmidxi             |***************|
    |===============+===============+===============+===============|
       ( 32 bytes )
domain alICM_TERM   struct  (3 sub-attributes)
 (a)     termno      .5.fake      (uchar: 1)
         lport       unsigned short (ushort)
         grpdata     .6.fake      (array [ 4 ] of .2fake )
             icmgrp      unsigned short (ushort)
             ones        .0.fake      (uchar: 4)
             tens        .1.fake      (uchar: 4)
 (b)         icmtype     .1fake       (enum)
 (c)         insrc       .0fake       (enum)
             slot        .2.fake      (ushort: 7)
             ltmidxi     .3.fake      (ulong)
         Structure Layout      alICM_TERM
```

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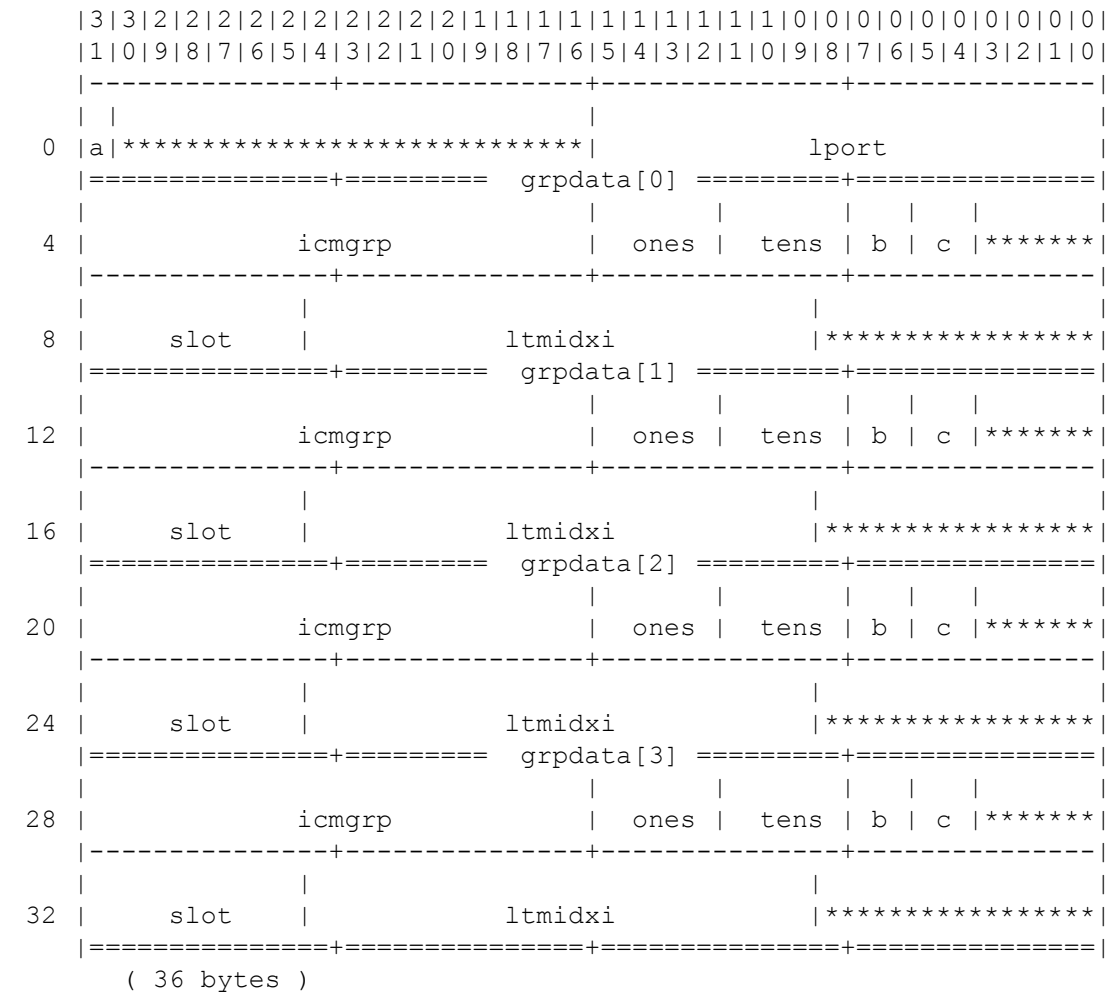


## 4. Population Rules for RLicm_term

**Relation Description**
Integrated Services digital network (ISDN) intercom terminals.

This relation associates a terminal with up to four ISDN intercom (ICOM) groups. The particular group a ISDN intercom button depression maps to depends on the action associated with the button. For business and residential customer service (BRCS) feature group (BFG) purposes, intercom call (ICM) feature parameter type is LINE. Therefore, BFG pseudo port tuples will not be created for the port assigned to a BFG. Only individual port tuples are created for BFG assigned ports.

**Attribute: termno**

**Fullname:** Terminal number

**Attribute Description** Terminal number.

**Attribute: lport**

**Fullname:** Logical port

**Attribute Description** Logical sequential number of the ISDN BRCS digital subscriber line (DSL) or shared analog port.

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**Attribute: grpdata[*]**

**Fullname:** Group data 1

**Attribute Description** Group data. The following structure named grpdata[i] is repeated four times. Actions are associated with the group data by the following:

| action | data |
|---|---|
| ACN_I1ICOM | grpdata[0] |
| ACN_I2ICOM | grpdata[1] |
| ACN_I3ICOM | grpdata[2] |
| ACN_I4ICOM | grpdata[3] |

Attributes Dependencies Chart

| icmgrp | icmtype | insrc | tens | ones | slot | ltmidxi |
|---|---|---|---|---|---|---|
| 0 | NULL_DIG | IS_NULL | 10 | 10 | 100 | 0 |
| >0 | ONE_DIG | IS_STORED | 0 | 0-9 | 0-9 | 0-8191 |
| >0 | ONE_DIG | IS_DIALED | 10 | 10 | 0-9 | 0-8191 |
| >0 | TWO_DIG | IS_STORED | 0-9 | 0-9 | 0-99 | 0-8191 |
| >0 | TWO_DIG | IS_DIALED | 10 | 10 | 0-99 | 0-8191 |

When icmgrp is less than zero, the slot value of 100 is allowed but not recommended. The telephone number (TN) cannot be reached by the feature button corresponding to the icmgrp, if slot equals 100.

**Attribute: grpdata[*].icmgrp**

**Fullname:** ISDN intercom group

**Attribute Description** Identifies the ISDN intercom group associated with this terminal. Zero implies this is not a valid group. If non-zero, look for a RLfid2name tuple.

**Attribute: grpdata[*].ones**

**Fullname:** Ones

**Attribute Description** Index to choose which slot in associated tens block access.

**Attribute: grpdata[*].tens**

**Fullname:** Tens

**Attribute Description** Index to choose which tens block to access.

**Attribute: grpdata[*].icmtype**

**Fullname:** Intercom type

**Attribute Description** Type of ISDN intercom group.

**Attribute: grpdata[*].insrc**

**Fullname:** Source of digits

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**Attribute Description** Source of digits for an ISDN intercom call.

**Attribute: grpdata[*].slot**

**Fullname:** Slot

**Attribute Description** Location of directory number in group list. If this is populated with the position (0-99) of the DN in the ICOM group, then the DN must be added to the RLicm_1lst relation keyed by this icmgrp and this tens (tens = RLicm_1lst.range). If the DN has not been assigned a position in the ICOM group, then the value should be 100.

**Attribute: grpdata[*].ltmidxi**

**Fullname:** Logical termination index

**Attribute Description** This is a recent change (RC)/office data administration (ODA) assigned value. For CA-ICOM this value needs to be non-zero and there needs to be a corresponding tuple in RLis_line keyed by this ltm_idxi and the lead module in this case Gl_pcrid. See RLis_line poprules for ltm_idxi.

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# ICNB_CAS

## 1. Description

This relation indicates whether an contract exists for a AT&T call to be charged to an LEC card. This is based on NPA-NXX of the LEC calling card number. This check is known as inverse contract check.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 160 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 512 |
| data page size | 512 |
| page level | 2 |
| ks key store | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
ICNB_CAS    relid = 1185  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     npa          DMUNS10      (ushort: 10) <--- key, not stored
     oamap00      DMOAH32      (ulong)
     oamap01      DMOAH32      (ulong)
     oamap02      DMOAH32      (ulong)
     oamap03      DMOAH32      (ulong)
     oamap04      DMOAH32      (ulong)
     oamap05      DMOAH32      (ulong)
     oamap06      DMOAH32      (ulong)
     oamap07      DMOAH32      (ulong)
     oamap08      DMOAH32      (ulong)
     oamap09      DMOAH32      (ulong)
     oamap10      DMOAH32      (ulong)
     oamap11      DMOAH32      (ulong)
     oamap12      DMOAH32      (ulong)
     oamap13      DMOAH32      (ulong)
     oamap14      DMOAH32      (ulong)
     oamap15      DMOAH32      (ulong)
     oamap16      DMOAH32      (ulong)
     oamap17      DMOAH32      (ulong)
     oamap18      DMOAH32      (ulong)
     oamap19      DMOAH32      (ulong)
     oamap20      DMOAH32      (ulong)
     oamap21      DMOAH32      (ulong)
     oamap22      DMOAH32      (ulong)
     oamap23      DMOAH32      (ulong)
     oamap24      DMOAH32      (ulong)
         User and Compacted Tuple Layout   ICNB_CAS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                     |                                         |
  0 |         npa         |*****************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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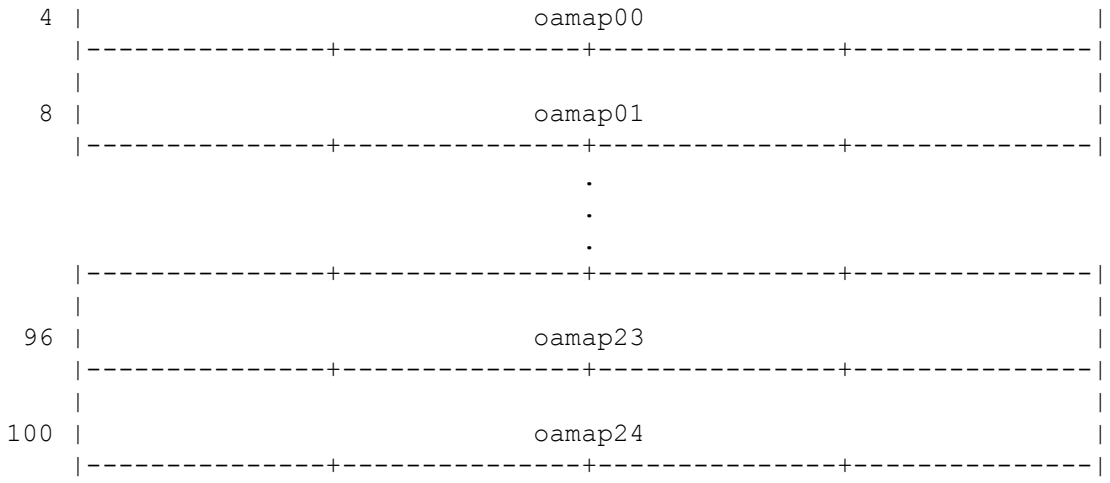
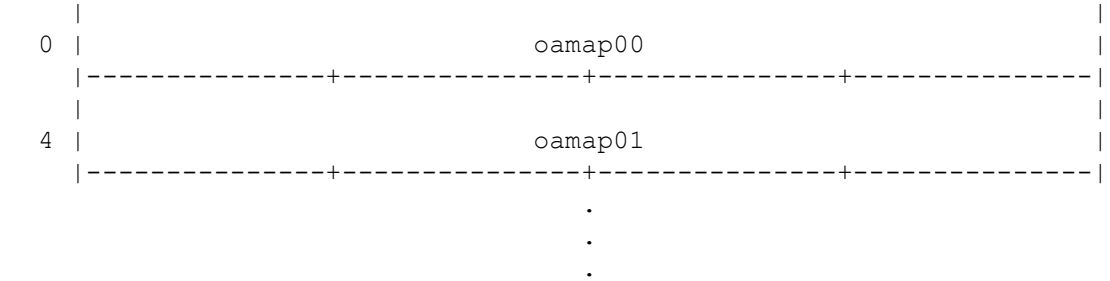



( 104 bytes )

```
oamap00     DMOAH32      (ulong)
oamap01     DMOAH32      (ulong)
oamap02     DMOAH32      (ulong)
oamap03     DMOAH32      (ulong)
oamap04     DMOAH32      (ulong)
oamap05     DMOAH32      (ulong)
oamap06     DMOAH32      (ulong)
oamap07     DMOAH32      (ulong)
oamap08     DMOAH32      (ulong)
oamap09     DMOAH32      (ulong)
oamap10     DMOAH32      (ulong)
oamap11     DMOAH32      (ulong)
oamap12     DMOAH32      (ulong)
oamap13     DMOAH32      (ulong)
oamap14     DMOAH32      (ulong)
oamap15     DMOAH32      (ulong)
oamap16     DMOAH32      (ulong)
oamap17     DMOAH32      (ulong)
oamap18     DMOAH32      (ulong)
oamap19     DMOAH32      (ulong)
oamap20     DMOAH32      (ulong)
oamap21     DMOAH32      (ulong)
oamap22     DMOAH32      (ulong)
oamap23     DMOAH32      (ulong)
oamap24     DMOAH32      (ulong)
```

Stored Tuple Layout ICNB_CAS

```
|3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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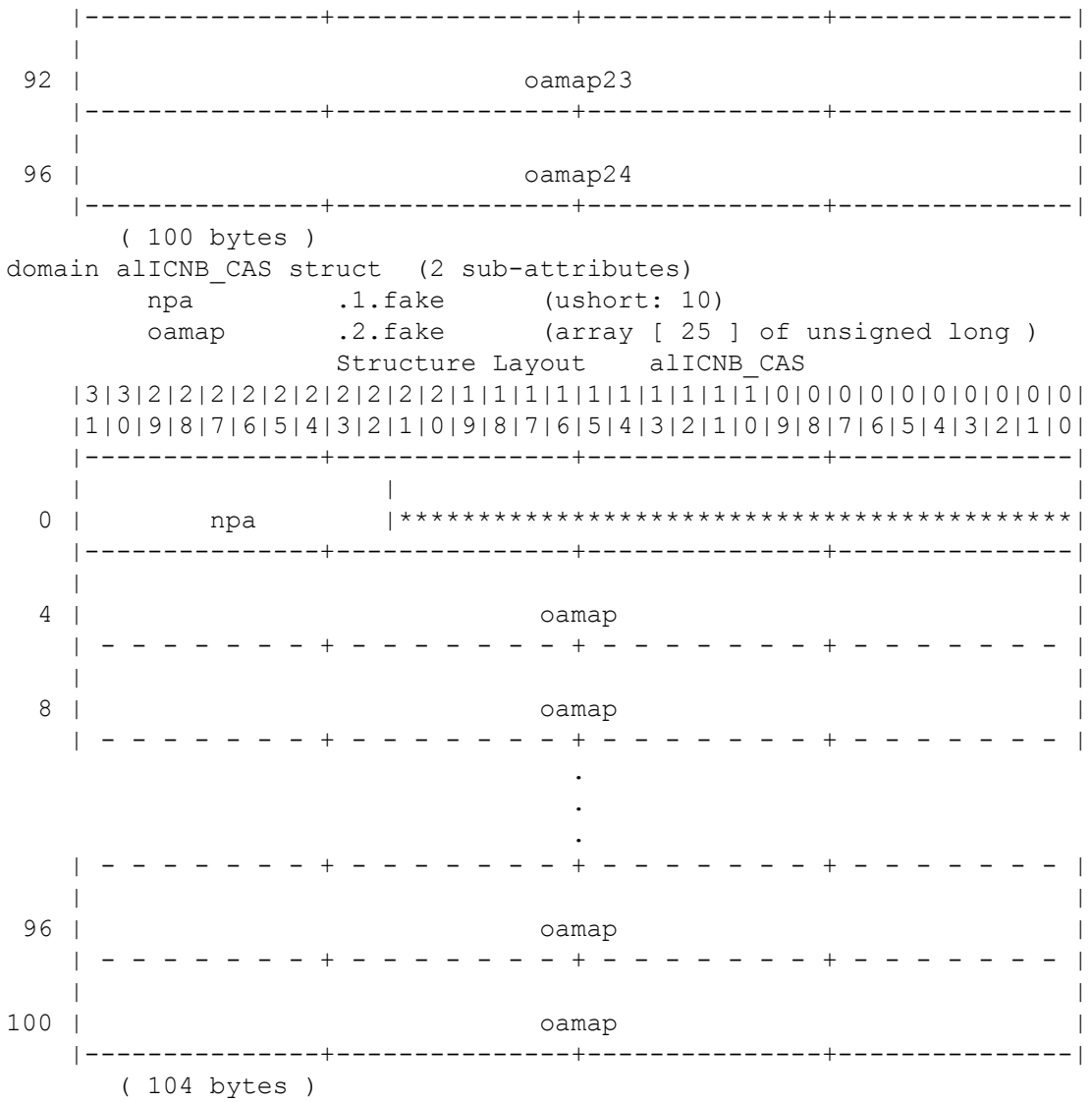


## 4. Population rules for RLicnb_cas

**Relation Description:**

```
Customer Account Services Inverse Contract NPA based Body Table
CAS inverse contract NPA base body table -
 This relation indicates whether a contract
 exists for a switch-owner call to be charged to a LEC card.
 This is based on NPA-NXX of the LEC card.
/*
 *      This relation is populated for domestic generics only.
 */
```

**Attribute:**

npa

**Fullname:**

Numbering Plan Area

**Attribute Description:**

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This is an NPA for which only some NXXs have inverse contract as indicated in the head table RLicnh_cas.

**Attribute:**
oamap00
**Fullname:**
OA map word 00
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap01
**Fullname:**
OA map word 01
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap02
**Fullname:**
OA map word 02
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap03
**Fullname:**
OA map word 03
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap04
**Fullname:**
OA map word 04
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap05
**Fullname:**
OA map word 05
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**

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oamap06
**Fullname:**
OA map word 06
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap07
**Fullname:**
OA map word 07
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap08
**Fullname:**
OA map word 08
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap09
**Fullname:**
OA map word 09
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap10
**Fullname:**
OA map word 10
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap11
**Fullname:**
OA map word 11
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap12
**Fullname:**
OA map word 12
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

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**Attribute:**
oamap13
**Fullname:**
OA map word 13
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap14
**Fullname:**
OA map word 14
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap15
**Fullname:**
OA map word 15
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap16
**Fullname:**
OA map word 16
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap17
**Fullname:**
OA map word 17
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap18
**Fullname:**
OA map word 18
**Attribute Description:**
Each OA map word xx gives allow state for 32 NXXs

**Attribute:**
oamap19
**Fullname:**

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OA map word 19

**Attribute Description:**

Each OA map word xx gives allow state for 32 NXXs

**Attribute:**

oamap20

**Fullname:**

OA map word 20

**Attribute Description:**

Each OA map word xx gives allow state for 32 NXXs

**Attribute:**

oamap21

**Fullname:**

OA map word 21

**Attribute Description:**

Each OA map word xx gives allow state for 32 NXXs

**Attribute:**

oamap22

**Fullname:**

OA map word 22

**Attribute Description:**

Each OA map word xx gives allow state for 32 NXXs

**Attribute:**

oamap23

**Fullname:**

OA map word 23

**Attribute Description:**

Each OA map word xx gives allow state for 32 NXXs

**Attribute:**

oamap24

**Fullname:**

OA map word 24

**Attribute Description:**

Each OA map word xx gives allow state for 32 NXXs

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# ICNH_CAS

## 1. Description

This relation indicates whether an contract exists for a AT&T call to be charged to an LEC card. This is based on NPA or NPA-NXX of the LEC calling card number. This check is known as inverse contract check.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
ICNH_CAS    relid = 1188  DBSTATIC   DBACC_LIN   DBPRAM    FG      NULL
     casdummy    DMUCHAR      (uchar)  <--- key
     oaff1       DMUNS8       (ushort: 8)
     oaff2       DMUSHORT     (ushort)
     oamap00     DMOAH32      (ulong)
     oamap01     DMOAH32      (ulong)
     oamap02     DMOAH32      (ulong)
     oamap03     DMOAH32      (ulong)
     oamap04     DMOAH32      (ulong)
     oamap05     DMOAH32      (ulong)
     oamap06     DMOAH32      (ulong)
     oamap07     DMOAH32      (ulong)
     oamap08     DMOAH32      (ulong)
     oamap09     DMOAH32      (ulong)
     oamap10     DMOAH32      (ulong)
     oamap11     DMOAH32      (ulong)
     oamap12     DMOAH32      (ulong)
     oamap13     DMOAH32      (ulong)
     oamap14     DMOAH32      (ulong)
     oamap15     DMOAH32      (ulong)
     oamap16     DMOAH32      (ulong)
     oamap17     DMOAH32      (ulong)
     oamap18     DMOAH32      (ulong)
     oamap19     DMOAH32      (ulong)
     oamap20     DMOAH32      (ulong)
     oamap21     DMOAH32      (ulong)
     oamap22     DMOAH32      (ulong)
     oamap23     DMOAH32      (ulong)
     oamap24     DMOAH32      (ulong)
     oamap25     DMOAH32      (ulong)
     oamap26     DMOAH32      (ulong)
     oamap27     DMOAH32      (ulong)
     oamap28     DMOAH32      (ulong)
     oamap29     DMOAH32      (ulong)
     oamap30     DMOAH32      (ulong)
     oamap31     DMOAH32      (ulong)
     oamap32     DMOAH32      (ulong)
```

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```
     oamap33     DMOAH32      (ulong)
     oamap34     DMOAH32      (ulong)
     oamap35     DMOAH32      (ulong)
     oamap36     DMOAH32      (ulong)
     oamap37     DMOAH32      (ulong)
     oamap38     DMOAH32      (ulong)
     oamap39     DMOAH32      (ulong)
     oamap40     DMOAH32      (ulong)
     oamap41     DMOAH32      (ulong)
     oamap42     DMOAH32      (ulong)
     oamap43     DMOAH32      (ulong)
     oamap44     DMOAH32      (ulong)
     oamap45     DMOAH32      (ulong)
     oamap46     DMOAH32      (ulong)
     oamap47     DMOAH32      (ulong)
     oamap48     DMOAH32      (ulong)
     oamap49     DMOAH32      (ulong)
         User, Compacted and Stored Tuple Layout   ICNH_CAS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |    casdummy   |     oaff1     |             oaff2             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            oamap00                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                            oamap01                            |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                                                               |
196 |                            oamap48                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
200 |                            oamap49                            |
    |---------------+---------------+---------------+---------------|
       ( 204 bytes )
domain alICNH_CAS   struct  (4 sub-attributes)
         casdummy    unsigned char (uchar)
         oaff1       .1.fake      (ushort)
         oaff2       unsigned short (ushort)
         oamap       .2.fake      (array [ 50 ] of unsigned long )
         Structure Layout      alICNH_CAS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |    casdummy   |     oaff1     |             oaff2             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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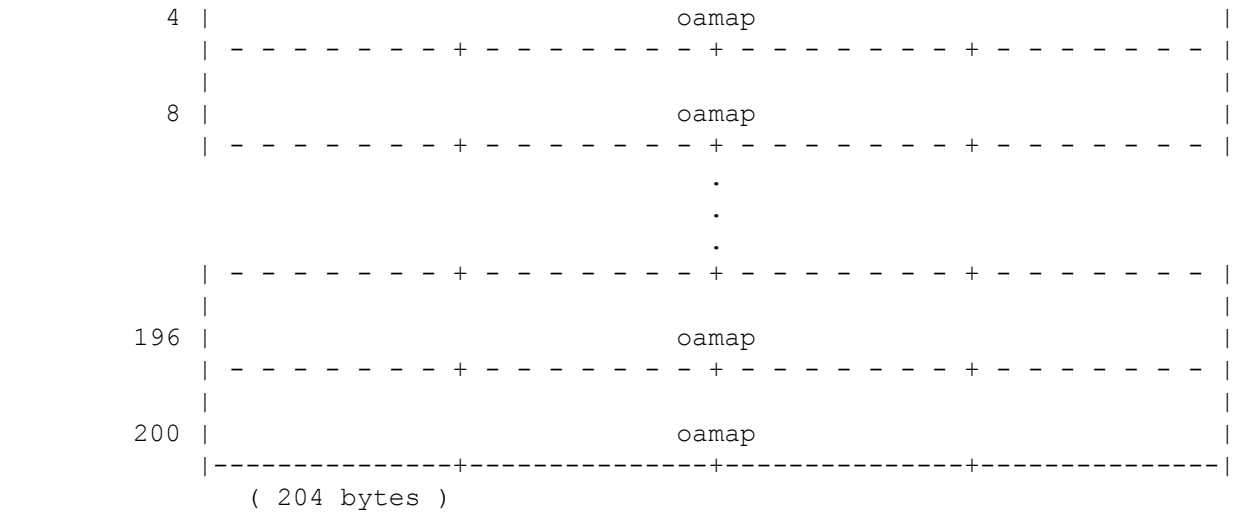


## 4. Population Rules for RLicnh_cas

**Relation Description**
Customer account services inverse contract NPA based head table.

CAS inverse contract NPA based head table - This relation indicates whether a contract exists for an AT&T call to be charged to a LEC card. This is based on NPA or NPA-NXX of the LEC card.

This check is known as inverse contract check.

This relation is populated for domestic generics only.

**Attribute: casdummy**

**Fullname:** CAS dummy key

**Attribute Description** This is a dummy key set to 1.

**Attribute: oaff1**

**Fullname:** Spare field 1

**Attribute Description** Spare field for fast features.

**Attribute: oaff2**

**Fullname:** Spare field 2

**Attribute Description** Spare field for fast features.

**Attribute: oamap00 through oamap49**

**Fullname:** OA map word 00 through 49

**Attribute Description** Each OA map word xx gives inverse contract state for 16 NPAs.

```
The allowed values for xx are:
     OACASALW  = 00
     OACASDENY = 01
     OACASPALW = 10(see domain DMCASSTAT for details)
```

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# ICNPAMAP

## 1. Description

This relation converts NPA-NXX to a value from 0-12799 which is combined with the line (XXXX) portion of the dn and used to retrieve screening information from the SM indicated by module. The keys are constructed by taking the NPA portion, converting it to binary, and using it as the first key; then taking the NXX portion, converting the result to binary, and using it as the second key. The keys are not stored.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 12800 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| ks store key option | DBNO |

## 3. Field Layout

```
ICNPAMAP    relid = 2586  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     bnpa        DMUNS10      (ushort: 10)     <--- key, not stored
     bnxx        DMUNS10      (ushort: 10)     <--- key, not stored
     spare5      DMUSHORT     (ushort)
     lnoc        DMLNOC       (ushort: 14)
 (a) spare1      DMBOOL       (enum: 1)
 (b) spare2      DMBOOL       (enum: 1)
     module      DMMODULE     (ushort: 8)
 (c) spare3      DMBOOL       (enum: 1)
 (d) spare4      DMBOOL       (enum: 1)
     spare6      DMULONG      (ulong)
         User and Compacted Tuple Layout   ICNPAMAP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |           |                   |           |
  0 |        bnpa       |***********|        bnxx       |***********|
    |---------------+---------------+---------------+---------------|
    |                               |                           | | |
  4 |             spare5            |            lnoc           |a|b|
    |---------------+---------------+---------------+---------------|
    |               | | |                                         |
  8 |     module    |c|d|*****************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                            spare6                             |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
     spare5      DMUSHORT     (ushort)
     lnoc        DMLNOC       (ushort: 14)
 (a) spare1      DMBOOL       (enum: 1)
 (b) spare2      DMBOOL       (enum: 1)
     module      DMMODULE     (ushort: 8)
 (c) spare3      DMBOOL       (enum: 1)
 (d) spare4      DMBOOL       (enum: 1)
```

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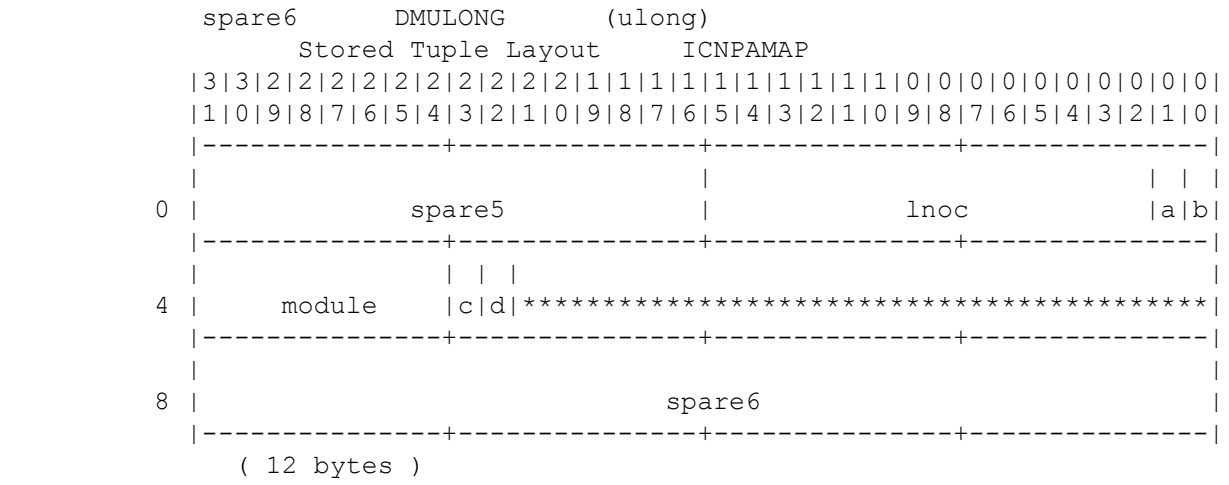


## 4. Population Rules for RLicnpamap

**Relation Description:** NPA map

Used to map an NPA-NXX to a large normalize office code (LNOC) value. Converts NPA-NXX to a value from 0-12799 which is combined with the line (XXXX) portion of the dn and used to retrieve screening information and/or true billing information for hotels from the SM indicated by module. The keys are constructed by taking the NPA portion, converting it to binary, and using it as the first key: then taking the NXX portion, converting it to binary, and using it as the second key. The average number of tuples for this relation is 1000. The much larger maximum is provided for those OSPS offices with a broad geographic coverage. Whenever an SM is removed from eligibility, any OSPS screening data *MUST* be redistributed among the remaining eligible SMs. Each eligible SM should be indicated no more than the number of times given by MAXMOD = ((number of RLicnpamap tuples) / (number of eligible SMs)) + 1. The purpose of this restriction is to distribute the screening data across all eligible SMs and divide the load on each SM. If possible, it would be most efficient to assign screening data for an NPA-NXX to an SM on which calls from that NPA-NXX may terminate. This would eliminate the SM to SM messages necessary to retrieve the screening data for the call.

**Attribute: bnpa**

**Fullname:** binary NPA

**Attribute Description** This is the NPA for the line converted to binary.

**Attribute: bnxx**

**Fullname:** binary NXX

**Attribute Description** This is the NXX for the line converted to binary. WARNING: NXXs under 200 do not conform to Bellcore Network Standards and may cause routing errors.

**Attribute: lnoc**

**Fullname:** large normalized office code

**Attribute Description** These should be assigned sequentially, beginning at zero as each NPA-NXX is populated. Value 12799 is reserved as the value for terminating exception area entries (see rules for the eai attribute).

**Attribute: module**

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**Fullname:** module

**Attribute Description** This is the module number of the SM containing the screening data and/or true billing information for hotels for each NPA-NXX. An eligible SM is defined as an SM which is not an RSM and which is an operational SM, that is, an SM for which there is a type PCMP tuple in RLcktdata which has eqstat set to SMOPER or, alternatively, an SM whose entry in RLmodatt has eqstat = SMOPER and imtype != RSM. OSPS PSMs are considered eligible SMs. Only eligible SMs may be indicated by this attribute. The purpose for the restriction on RSMs is conservation of real-time. The distribution type indicates that eligible SMs should also be SMs which carry OSPS operator traffic, or are PSMs. Zero is not allowed on the RC/ODA form and is to be mapped to unknown.

**Attribute: spare1**

**Fullname:** Spare bit 1

**Attribute Description** Spare field for fast features.

**Attribute: spare2**

**Fullname:** Spare bit 2

**Attribute Description** Spare field for fast features.

**Attribute: spare3**

**Fullname:** Spare bit 3

**Attribute Description** Spare field for fast features.

**Attribute: spare4**

**Fullname:** Spare bit 4

**Attribute Description** Spare field for fast features.

**Attribute: spare5**

**Fullname:** Spare field 5

**Attribute Description** Spare field for fast features.

**Attribute: spare6**

**Fullname:** Spare field 6

**Attribute Description** Spare field for fast features.

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# ICR

## 1. Description

This relation defines Intercom Call Restriction (ICR) Simulated Facilities Group (SFG).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected number of tuples | 4 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| trigger function | RTicrtrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
ICR          relid = 1050  DBSTATIC   DBACC_HASH  DBPRAM    FG       NULL
     port         DMPORT       (ushort)
     config       DMCONFIG     (ulong: 12)
 (a) cpe_comp     DMCPECOMP    (uchar: 3)
 (b) icr_act      DMBOOL       (enum: 1)
     sfg_num      DMGRUPNM     (ushort: 11)  <--- key
 (c) bl_type      DMICRBL      (enum: 2)
 (d) ama_stat     DMBOOL       (enum: 1)
 (e) bil_ovfl     DMBOOL       (enum: 1)
     size         DMUNS11      (ushort: 11)
     action       DMMCACTN     (enum: 9)
     button       DMBUTTON     (uchar: 8)
     track_sm     DMMODULE     (ushort: 8)
     sm           DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout    ICR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                       |     | |
  0 |              port              |         config        |  a  |b|
    |---------------+---------------+---------------+---------------|
    |                     |   | | | |                       |       |
  4 |       sfg_num       | c |d|e|*|         size          |*******|
    |---------------+---------------+---------------+---------------|
    |                 |             |               |               |
  8 |      action     |*************|     button    |    track_sm   |
    |---------------+---------------+---------------+---------------|
    |                |                                               |
 12 |       sm       |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLicr

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**Relation Description:** Intercom call restriction (ICR).

This relation defines intercom call restriction (ICR) simulated facilities group (SFG).

**Attribute: sfg_num**

**Fullname:** sfg group number

**Attribute Description** If RLicr.size is less than 97 then sfg_num must be greater than 0 and less than 1024. If RLicr.size is equal to or greater than 97 then sfg_num must be greater than 0 and less than 501. The grpnum used can not be repeated in the relation RLrt_sfg. that is, the relation keys can not be duplicated.

**Attribute: icr_act**

**Fullname:** icr service is activated or deactivated

**Attribute Description** Indicates if icr feature is activated or deactivated for this sfg.

**Attribute: size**

**Fullname:** the maximum number of simultaneous calls available to the customer for this sfg

**Attribute Description** Indicates the maximum number of simultaneous calls available to the customer for this sfg.

**Attribute: track_sm**

**Fullname:** the sm number where this sfg is tracked

**Attribute Description** Switching module on which this sfg group is tracked of busy counts etc.

If a module is not input, a SM will be chosen based on the following criteria:
IF RLicr.ama_stat is set equal to DBYES : select track_sm based on the smallest sfg_load found in AM relation RLicrsm AND RLicrsm.amasfgcnt is less than 50.
IF RLicr.ama_stat is set equal to DBNO : select track_sm based on the smallest sfg_load found in AM relation RLicrsm
Dependency: If RSM (not ORM or TRM) is input, it will be accepted, but default value will not be RSM.

**Attribute: ama_stat**

**Fullname:** AMA billing is tracking this sfg or not

**Attribute Description** Indicates whether an AMA hourly report is to be generated on this icr sfg.

**Attribute: bl_type**

**Fullname:** indicates if an icr busy lamp is associated with this sfg, if so, whether analog or ISDN attendant console

**Attribute Description** Indicates the type of icr sfg busy lamp associated with this sfg.
If bl_type = ANALOGBL then: Verify existence of tuple in RLrc_sfg such that key
`rlRC_SFG.grpnum = rlICR.sfg_num,`
and verify that a tuple does NOT exist in RLrt_tgbl such that key
`rlRT_TGBL.grpnum = rlICR.sfg_num`

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If bl_type = ISDNBL then: Verify existence of tuple in RLrc_icrtn such that key
```
rlICR.sfg_num = rlRC_ICRTN.sfg_acn[0] or
rlICR.sfg_num = rlRC_ICRTN.sfg_acn[1] or
rlICR.sfg_num = rlRC_ICRTN.sfg_acn[2] or
rlICR.sfg_num = rlRC_ICRTN.sfg_acn[3] or
rlICR.sfg_num = rlRC_ICRTN.sfg_acn[4] or
rlICR.sfg_num = rlRC_ICRTN.sfg_acn[5]
```

**Attribute: config**

**Fullname:** configuration ID of ISDN attendant console

**Attribute Description** Indicates configuration ID of attendant console. If bl_type in this relation is ISDNBL: Verify existence of tuple in RLrc_icrtn such that key
```
rlRC_ICRTN.config = rlICR.config
rlRC_ICRTN.dport = rlICR.port
rlRC_ICRTN.sm = rlICR.sm
```
config ID is calculated by converting dport to lport using lport to read RLis_term If bl_type in this relation is ANALOGBL or NOICRBL: this attribute must be 0.

**Attribute: port**

**Fullname:** port on which attendant console is connected to

**Attribute Description** Indicates port to which attendant console is connected. If bl_type in this relation is ISDNBL: port and sm together must be a valid attendant DN, with service class of FC_ISATND. Cpetype field in the relation RLis_term has to be set to IS_TYPATT. Verify existence of tuple in RLrc_icrtn such that:
```
key rlRC_ICRTN.dport = rlICR.port
key rlRC_ICRTN.sm = rlICR.sm
```
If bl_type in this relation is ANALOGBL: port and sm together must be valid metallic service unit busy lamp port. Verify existence of tuple in RLfc_porttyp such that key
```
rlFC_PORTTYP.port  = tgbl_port
rlFC_PORTTYP.servclass = FC_PFLAMP
the port and sm cannot exist in RLrt_tgbl.tgbl_port
```
If bl_type in this relation is NOICRBL: this attribute must be 0

**Attribute: sm**

**Fullname:** switching module on which attendant console is connected to

**Attribute Description** Switching module on which attendant console is connected to. If bl_type in this relation is ISDNBL: port and sm together must be a valid attendant DN, with service class of FC_ISATND. Verify existence of tuple in RLrc_icrtn such that key
```
rlRC_ICRTN.dport = rlICR.port
rlRC_ICRTN.sm = rlICR.sm
```
If bl_type in this relation is ANALOGBL: port and sm together must be valid metallic service unit tgbl port. Verify existence of tuple in RLfc_porttyp such that key
```
rlFC_PORTTYP.port  = tgbl_port
rlFC_PORTTYP.servclass = FC_PFLAMP
the port and sm cannot exist in RLrt_tgbl.tgbl_port
```
If bl_type in this relation is NOICRBL: this attribute must be 0

**Attribute: action**

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**Fullname:** action associated with busy lamp on ISDN attendant console

**Attribute Description** Action which will light busy lamp on ISDN attendant console. If bl_type in this relation is ISDNBL: A tuple must exist in RLrc_icrtn such that

```
 RLrc_icrtn.sfg_acnX = RLicr.sfg_num
  Where: RLrc_icrtn.sfg_acnX is one of the following tuples:
  sfg_acn[0],
  sfg_acn[1],
  sfg_acn[2],
  sfg_acn[3],
  sfg_acn[4] or
  sfg_acn[5]
  depending upon the value of the action attribute in this relation
Example: If this attribute is ACN_ICR4 then
  a tuple must exist in RLrc_icrtn such
  that rlRC_ICRTN.sfg_acn[3] = rlICR.sfg_num
  If bl_type in this relation is ANALOGBL or NOICRBL:
  this attribute must be ACN_NONE.
```

**Attribute: button**

**Fullname:** button number on ISDN attendant console

**Attribute Description** Indicates lamp number on ISDN attendant console associates with sfg. If bl_type in this relation is ISDNBL: This attribute cannot be 0. For a given config id, one button can not be duplicated for different sfg's (key) If bl_type in this relation is ANALOGBL or NOICRBL: this attribute must be 1

**Attribute: cpe_comp**

**Fullname:** CPE component

**Attribute Description** CPE component (module) to which this busy lamp resides If RLicr.bl_type is ISDNBL: This attribute is set to the component on which the busy lamp resides If RLicr.bl_type is ANALOGBL or NOICRBL: This attribute must be 0.

**Attribute: bil_ovfl**

**Fullname:** request to bill overflowed calls

**Attribute Description** Indicates that overflow billing is requested

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# ICRH_CAS

## 1. Description

This relation indicates whether a contract exists for an AT&T call to be charged to an LEC card. This is based on RAO of the LEC calling card number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
ICRH_CAS    relid = 1178  DBSTATIC   DBACC_LIN   DBPRAM    FG      NULL
     casdummy    DMUCHAR      (uchar)  <--- key
     oaff1       DMUNS8       (ushort: 8)
     oaff2       DMUSHORT     (ushort)
     oamap00     DMOAH32      (ulong)
     oamap01     DMOAH32      (ulong)
     oamap02     DMOAH32      (ulong)
     oamap03     DMOAH32      (ulong)
     oamap04     DMOAH32      (ulong)
     oamap05     DMOAH32      (ulong)
     oamap06     DMOAH32      (ulong)
     oamap07     DMOAH32      (ulong)
     oamap08     DMOAH32      (ulong)
     oamap09     DMOAH32      (ulong)
     oamap10     DMOAH32      (ulong)
     oamap11     DMOAH32      (ulong)
     oamap12     DMOAH32      (ulong)
     oamap13     DMOAH32      (ulong)
     oamap14     DMOAH32      (ulong)
     oamap15     DMOAH32      (ulong)
     oamap16     DMOAH32      (ulong)
     oamap17     DMOAH32      (ulong)
     oamap18     DMOAH32      (ulong)
     oamap19     DMOAH32      (ulong)
     oamap20     DMOAH32      (ulong)
     oamap21     DMOAH32      (ulong)
     oamap22     DMOAH32      (ulong)
     oamap23     DMOAH32      (ulong)
     oamap24     DMOAH32      (ulong)
     oamap25     DMOAH32      (ulong)
     oamap26     DMOAH32      (ulong)
     oamap27     DMOAH32      (ulong)
     oamap28     DMOAH32      (ulong)
     oamap29     DMOAH32      (ulong)
     oamap30     DMOAH32      (ulong)
     oamap31     DMOAH32      (ulong)
     oamap32     DMOAH32      (ulong)
```

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```
     oamap33     DMOAH32      (ulong)
     oamap34     DMOAH32      (ulong)
     oamap35     DMOAH32      (ulong)
     oamap36     DMOAH32      (ulong)
     oamap37     DMOAH32      (ulong)
     oamap38     DMOAH32      (ulong)
     oamap39     DMOAH32      (ulong)
     oamap40     DMOAH32      (ulong)
     oamap41     DMOAH32      (ulong)
     oamap42     DMOAH32      (ulong)
     oamap43     DMOAH32      (ulong)
     oamap44     DMOAH32      (ulong)
     oamap45     DMOAH32      (ulong)
     oamap46     DMOAH32      (ulong)
     oamap47     DMOAH32      (ulong)
     oamap48     DMOAH32      (ulong)
     oamap49     DMOAH32      (ulong)
         User, Compacted and Stored Tuple Layout   ICRH_CAS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |    casdummy   |     oaff1     |             oaff2             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            oamap00                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                            oamap01                            |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                                                               |
196 |                            oamap48                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
200 |                            oamap49                            |
    |---------------+---------------+---------------+---------------|
       ( 204 bytes )
domain alICRH_CAS   struct  (4 sub-attributes)
         casdummy    unsigned char (uchar)
         oaff1       .1.fake      (ushort)
         oaff2       unsigned short (ushort)
         oamap       .2.fake      (array [ 50 ] of unsigned long )
         Structure Layout      alICRH_CAS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |    casdummy   |     oaff1     |             oaff2             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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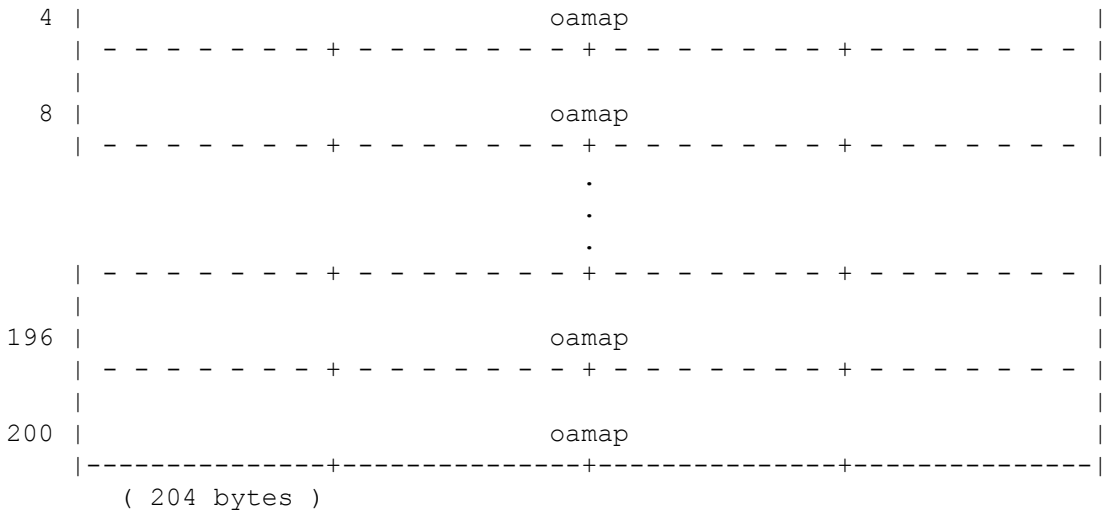


## 4. Population Rules for RLicrh_cas

**Relation Description**
Customer account services inverse contract RAO based head table.

CAS inverse contract RAO based head table - This relation indicates whether an contract exists for an AT&T call to be charged to a LEC card. This is based on RAO of the LEC card.

Since this table is based on the RAO of the LEC card, no body table is required with this relation. The restrictions are made on a RAO basis, and all [0/1]XX of that RAO are inclusive in the restriction.

This relation is populated for domestic generics only.

**Attribute: casdummy**

**Fullname:** CAS dummy key

**Attribute Description** This is a dummy key set to 1.

**Attribute: oaff1**

**Fullname:** Spare field 1

**Attribute Description** Spare field for fast features.

**Attribute: oaff2**

**Fullname:** Spare field 2

**Attribute Description** Spare field for fast features.

**Attribute: oamap[*]**

**Fullname:** OA map word xx

**Attribute Description** Each OA map word xx gives contract state for 16 RAOs. The allowed values for xx are:
OACASALW = 00
OACASDENY = 01 (see domain DMCASSTAT for details)

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# ICRSM

## 1. Description

Intercom Calling Restriction (ICR) tracking sm load.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 192 |
| expected number of tuples | 35 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |

## 3. Field Layout

```
ICRSM       relid = 1038  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     sfg_load    DMUSHORT     (ushort)
     track_sm    DMMODULE     (ushort: 8)  <--- key
     amasfgcnt   DMUNS6       (ushort: 6)
 (a) rsm         DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout  ICRSM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |           | | |
  0 |            sfg_load           |    track_sm   | amasfgcnt |a|*|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLicrsm

**Relation Description:** Intercom calling restriction (ICR) tracking SM load.

This relation is used to track the load for each ICR tracking SM. There should be one tuple in this relation for each operational SM in the office.

**Attribute: track_sm**

**Fullname:** tracking switching module for ICR SFG

**Attribute Description** Switching module (SM) on which the members of ICR SFG groups are tracked for busy/idle status and busy count.

**Attribute: sfg_load**

**Fullname:** SFG load for this tracking SM

**Attribute Description** Indicates the total of the sizes of SFGs to be tracked by this SM.

**Attribute: rsm**

**Fullname:** indicates whether this tracking SM is an RSM

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**Attribute Description** Indicates if this is an RSM connected to an HSM. The ORM and TRM are not considered as RSMs here.

**Attribute: amasfgcnt**

**Fullname:** ICR SFG AMA report count

**Attribute Description** Indicates total number of hourly ICR SFG AMA reports to be generated for this tracking SM.

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# ICSCRLNE

## 1. Description

This relation holds the screen code and spares; indexed by large noc (NPA-NXX translation) + line number (XXXX). Key is not stored.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 250000 |
| expected number of tuples | 690 |
| density | 83 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| foldtype | DBGC31 |

## 3. Field Layout

```
ICSCRLNE    relid = 2587  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     spare6      DMUSHORT     (ushort)
     lnoc        DMLNOC       (ushort: 14)     <--- key
 (a) spare1      DMBOOL       (enum: 1)
 (b) spare2      DMBOOL       (enum: 1)
     lnnum       DMLINENO     (ushort: 14)     <--- key
 (c) spare3      DMBOOL       (enum: 1)
 (d) spare4      DMBOOL       (enum: 1)
     scrncode    DMSCRCDE     (ushort: 10)
     spare5      DMUNS6       (ushort: 6)
         User, Compacted and Stored Tuple Layout   ICSCRLNE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                           | | |
  0 |              spare6            |             lnoc            |a|b|
    |---------------+---------------+---------------+---------------|
    |                            | | |                   |           |
  4 |            lnnum           |c|d|      scrncode     |   spare5  |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLicscrlne

**Relation Description**
IC Screen Line number

This relation holds the screen code, associated with a directory number: indexed by large noc (NPA-NXX translation) + line number (XXXX). Key is not stored.

**Attribute: lnoc**

**Fullname:** lnoc

**Attribute Description** This consists of the lnoc translation for the NPA-NXX for the screened line.

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**Attribute: lnnum**

**Fullname:** line number

**Attribute Description** This is the line number, a number from 0000-9999. (Lnoc + lnnum are referred to as lnocdn here.)

**Attribute: scrncode**

**Fullname:** Screen Code

**Attribute Description** Any value from 0-999, zero is reserved to mean not screened; Screen code 999 is reserved for testing.

**Attribute: spare1**

**Fullname:** spare bit 1

**Attribute Description** This attribute is to be used for fast/special features.

**Attribute: spare2**

**Fullname:** spare bit 2

**Attribute Description** This attribute is to be used for fast/special features.

**Attribute: spare3**

**Fullname:** spare bit 3

**Attribute Description** This attribute is to be used for fast/special features.

**Attribute: spare4**

**Fullname:** spare bit 4

**Attribute Description** This attribute is to be used for fast/special features.

**Attribute: spare5**

**Fullname:** spare field 5

**Attribute Description** Spare field for fast features.

**Attribute: spare6**

**Fullname:** spare field 6

**Attribute Description** Spare field for fast features.

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# ICSCRN

## 1. Description

Table text to be displayed for screen codes.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
ICSCRN      relid = 2588  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     cic1         DMBCARID     (ushort: 14)
 (a) spare1       DMBOOL       (enum: 1)
 (b) spare2       DMBOOL       (enum: 1)
     cic2         DMBCARID     (ushort: 14)
 (c) spare3       DMBOOL       (enum: 1)
     cic3         DMBCARID     (ushort: 14)
     cic4         DMBCARID     (ushort: 14)
     cic5         DMBCARID     (ushort: 14)
     scrncode     DMSCRCDE     (ushort: 10)     <--- key
         User, Compacted and Stored Tuple Layout ICSCRN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                             | | |                             | | |
  0 |             cic1            |a|b|             cic2            |c|*|
    |---------------+---------------+---------------+---------------|
    |                             |   |                             |   |
  4 |             cic3            |***|             cic4            |***|
    |---------------+---------------+---------------+---------------|
    |                             |   |                     |           |
  8 |             cic5            |***|      scrncode       |***********|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLicscrn

**Relation Description:** Billing Number Screen Code Table

This relation is used by Billing Number Screening to associate screening text with a screen code value. The distribution class for RLICSCRN is Group Partitioned. Each PSM contains a complete copy of the relation (a PSM is an SM with OSPS operator positions attached). RLICSCRN is not populated in the AM or any SM without attached OSPS operator positions. This means that in RLDB_GPDUS the grp_type should be set to GPD_OSPS and the grp_id should be set to 1. This relation is heavily interdependent with the RLICSCRLNE and RLICSCRRNG relation. As each screened dn is entered in RLICSCRLNE or RLICSCRRNG, this relation must be checked to verify that the screen code is populated.

**Attribute: scrncode**

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**Fullname:** Screen code

**Attribute Description** 0 for this key means not screened. 999 is reserved for testing.

**Attribute: spare1**

**Fullname:** Spare bit 1.

**Attribute Description** To be used for fast features.

**Attribute: spare2**

**Fullname:** Spare bit 2.

**Attribute Description** To be used for fast features

**Attribute: spare3**

**Fullname:** Spare bit 3.

**Attribute Description** To be used for fast features.

**Attribute: cic1**

**Fullname:** CIC 1.

**Attribute Description** ID of carrier that uses this screen code.

**Attribute: cic2**

**Fullname:** CIC 2.

**Attribute Description** ID of carrier that uses this screen code.

**Attribute: cic3**

**Fullname:** CIC 3.

**Attribute Description** ID of carrier that uses this screen code.

**Attribute: cic4**

**Fullname:** CIC 4.

**Attribute Description** ID of carrier that uses this screen code.

**Attribute: cic5**

**Fullname:** CIC 5.

**Attribute Description** ID of carrier that uses this screen code.

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# ICSCRRNG

## 1. Description

This relation holds the screen code and spares associated with a range of directory numbers; indexed by large noc (NPA-NXX translation).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 5120 |
| expected number of tuples | 27 |
| density | 61 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
ICSCRRNG    relid = 2589  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     tupnum      DMUNS7       (ushort: 7)     <--- key
     lnoc        DMLNOC       (ushort: 14)     <--- key
     entries     DMUNS10      (ushort: 10)
     range00     DMICLNRNG    (struct)
         begln       DMLINENO     (ushort: 14)
 (a)     spare1      DMBOOL       (enum: 1)
 (b)     spare2      DMBOOL       (enum: 1)
         endln       DMLINENO     (ushort: 14)
 (c)     spare3      DMBOOL       (enum: 1)
 (d)     spare4      DMBOOL       (enum: 1)
         scrncode    DMSCRCDE     (ushort: 10)
         spare5      DMUNS6       (ushort: 6)
         spare6      DMUSHORT     (ushort)
     range01     DMICLNRNG    (struct)
         begln       DMLINENO     (ushort: 14)
 (e)     spare1      DMBOOL       (enum: 1)
 (f)     spare2      DMBOOL       (enum: 1)
         endln       DMLINENO     (ushort: 14)
 (g)     spare3      DMBOOL       (enum: 1)
 (h)     spare4      DMBOOL       (enum: 1)
         scrncode    DMSCRCDE     (ushort: 10)
         spare5      DMUNS6       (ushort: 6)
         spare6      DMUSHORT     (ushort)
     range02     DMICLNRNG    (struct)
         begln       DMLINENO     (ushort: 14)
 (i)     spare1      DMBOOL       (enum: 1)
 (j)     spare2      DMBOOL       (enum: 1)
         endln       DMLINENO     (ushort: 14)
 (k)     spare3      DMBOOL       (enum: 1)
 (l)     spare4      DMBOOL       (enum: 1)
         scrncode    DMSCRCDE     (ushort: 10)
         spare5      DMUNS6       (ushort: 6)
         spare6      DMUSHORT     (ushort)
     range03     DMICLNRNG    (struct)
         begln       DMLINENO     (ushort: 14)
```

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```
(m)     spare1      DMBOOL       (enum: 1)
(n)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(o)     spare3      DMBOOL       (enum: 1)
(p)     spare4      DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
        spare5      DMUNS6       (ushort: 6)
        spare6      DMUSHORT     (ushort)
    range04     DMICLNRNG    (struct)
        begln       DMLINENO     (ushort: 14)
(q)     spare1      DMBOOL       (enum: 1)
(r)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(s)     spare3      DMBOOL       (enum: 1)
(t)     spare4      DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
        spare5      DMUNS6       (ushort: 6)
        spare6      DMUSHORT     (ushort)
    range05     DMICLNRNG    (struct)
        begln       DMLINENO     (ushort: 14)
(u)     spare1      DMBOOL       (enum: 1)
(v)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(w)     spare3      DMBOOL       (enum: 1)
(x)     spare4      DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
        spare5      DMUNS6       (ushort: 6)
        spare6      DMUSHORT     (ushort)
    range06     DMICLNRNG    (struct)
        begln       DMLINENO     (ushort: 14)
(y)     spare1      DMBOOL       (enum: 1)
(z)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(A)     spare3      DMBOOL       (enum: 1)
(B)     spare4      DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
        spare5      DMUNS6       (ushort: 6)
        spare6      DMUSHORT     (ushort)
    range07     DMICLNRNG    (struct)
        begln       DMLINENO     (ushort: 14)
(C)     spare1      DMBOOL       (enum: 1)
(D)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(E)     spare3      DMBOOL       (enum: 1)
(F)     spare4      DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
        spare5      DMUNS6       (ushort: 6)
        spare6      DMUSHORT     (ushort)
    range08     DMICLNRNG    (struct)
        begln       DMLINENO     (ushort: 14)
(G)     spare1      DMBOOL       (enum: 1)
(H)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(I)     spare3      DMBOOL       (enum: 1)
```

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```
(J)     spare4      DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
        spare5      DMUNS6       (ushort: 6)
        spare6      DMUSHORT     (ushort)
    range09     DMICLNRNG    (struct)
        begln       DMLINENO     (ushort: 14)
(K)     spare1      DMBOOL       (enum: 1)
(L)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(M)     spare3      DMBOOL       (enum: 1)
(N)     spare4      DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
        spare5      DMUNS6       (ushort: 6)
        spare6      DMUSHORT     (ushort)
    range10     DMICLNRNG    (struct)
        begln       DMLINENO     (ushort: 14)
(O)     spare1      DMBOOL       (enum: 1)
(P)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(Q)     spare3      DMBOOL       (enum: 1)
(R)     spare4      DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
        spare5      DMUNS6       (ushort: 6)
        spare6      DMUSHORT     (ushort)
    range11     DMICLNRNG    (struct)
        begln       DMLINENO     (ushort: 14)
(S)     spare1      DMBOOL       (enum: 1)
(T)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(U)     spare3      DMBOOL       (enum: 1)
(V)     spare4      DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
        spare5      DMUNS6       (ushort: 6)
        spare6      DMUSHORT     (ushort)
    range12     DMICLNRNG    (struct)
        begln       DMLINENO     (ushort: 14)
(W)     spare1      DMBOOL       (enum: 1)
(X)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(Y)     spare3      DMBOOL       (enum: 1)
(Z)     spare4      DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
        spare5      DMUNS6       (ushort: 6)
        spare6      DMUSHORT     (ushort)
    range13     DMICLNRNG    (struct)
        begln       DMLINENO     (ushort: 14)
(a)     spare1      DMBOOL       (enum: 1)
(b)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(c)     spare3      DMBOOL       (enum: 1)
(d)     spare4      DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
        spare5      DMUNS6       (ushort: 6)
        spare6      DMUSHORT     (ushort)
```

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```
    range14     DMICLNRNG    (struct)
        begln       DMLINENO     (ushort: 14)
(e)     spare1      DMBOOL       (enum: 1)
(f)     spare2      DMBOOL       (enum: 1)
        endln       DMLINENO     (ushort: 14)
(g)     spare3      DMBOOL       (enum: 1)
(h)     spare4      DMBOOL       (enum: 1)
        scrncode    DMSCRCDE     (ushort: 10)
        spare5      DMUNS6       (ushort: 6)
        spare6      DMUSHORT     (ushort)
        User, Compacted and Stored Tuple Layout   ICSCRRNG
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |               |                               |   |
 0 |    tupnum     |*****************|             lnoc              |***|
   |---------------+---------------+---------------+---------------|
   |                       |                                       |
 4 |      entries          |***************************************|
   |===============+=========== range00 ===========+===============|
   |                           | | |                               | | |
 8 |           begln           |a|b|           endln           |c|d|
   |---------------+---------------+---------------+---------------|
   |                       |           |                           |
12 |      scrncode         |   spare5  |             spare6            |
   |===============+=========== range01 ===========+===============|
   |                           | | |                               | | |
16 |           begln           |e|f|           endln           |g|h|
   |---------------+---------------+---------------+---------------|
   |                       |           |                           |
20 |      scrncode         |   spare5  |             spare6            |
   |===============+=========== range02 ===========+===============|
   |                           | | |                               | | |
24 |           begln           |i|j|           endln           |k|l|
   |---------------+---------------+---------------+---------------|
   |                       |           |                           |
28 |      scrncode         |   spare5  |             spare6            |
   |===============+=========== range03 ===========+===============|
   |                           | | |                               | | |
32 |           begln           |m|n|           endln           |o|p|
   |---------------+---------------+---------------+---------------|
   |                       |           |                           |
36 |      scrncode         |   spare5  |             spare6            |
   |===============+=========== range04 ===========+===============|
   |                           | | |                               | | |
40 |           begln           |q|r|           endln           |s|t|
   |---------------+---------------+---------------+---------------|
   |                       |           |                           |
44 |      scrncode         |   spare5  |             spare6            |
   |===============+=========== range05 ===========+===============|
   |                           | | |                               | | |
48 |           begln           |u|v|           endln           |w|x|
   |---------------+---------------+---------------+---------------|
   |                       |           |                           |
```

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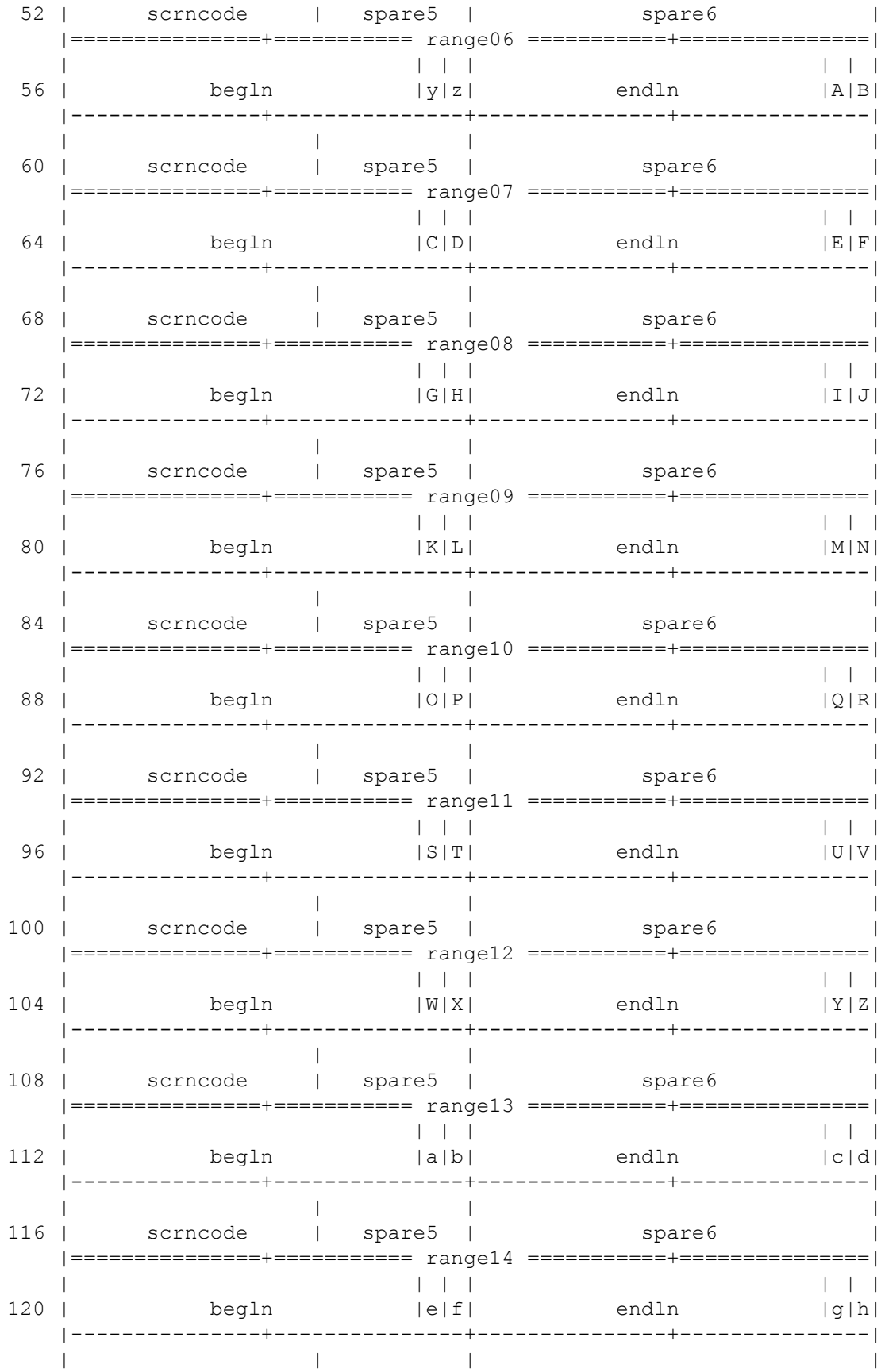


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```
124 |      scrncode     |   spare5  |             spare6            |
    |===============+===============+===============+==============|
       ( 128 bytes )
domain alICSCRRNG   struct  (4 sub-attributes)
         tupnum      .7.fake      (ushort: 7)
         lnoc        .8.fake      (ushort: 14)
         entries     .9.fake      (ushort: 10)
         rangexx     .10.fake     (array [ 15 ] of .1fake )
             begln       .0.fake      (ushort: 14)
 (a)         spare1      .0fake       (enum)
 (b)         spare2      .0fake       (enum)
             endln       .1.fake      (ushort: 14)
 (c)         spare3      .0fake       (enum)
 (d)         spare4      .0fake       (enum)
             scrncode    .2.fake      (ushort: 10)
             spare5      .3.fake      (ushort: 6)
             spare6      unsigned short (ushort)
         Structure Layout      alICSCRRNG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                           |   |
  0 |    tupnum     |*****************|            lnoc           |***|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
  4 |      entries          |***************************************|
    |===============+=========  rangexx[0] =========+===============|
    |                         | | |                           | | |
  8 |           begln         |a|b|           endln           |c|d|
    |---------------+---------------+---------------+---------------|
    |                       |               |                       |
 12 |      scrncode     |   spare5  |             spare6            |
    |===============+=========  rangexx[1] =========+===============|
    |                         | | |                           | | |
 16 |           begln         |a|b|           endln           |c|d|
    |---------------+---------------+---------------+---------------|
    |                       |               |                       |
 20 |      scrncode     |   spare5  |             spare6            |
    |===============+=========  rangexx[2] =========+===============|
    |                         | | |                           | | |
 24 |           begln         |a|b|           endln           |c|d|
    |---------------+---------------+---------------+---------------|
    |                       |               |                       |
 28 |      scrncode     |   spare5  |             spare6            |
    |===============+=========  rangexx[3] =========+===============|
    |                         | | |                           | | |
 32 |           begln         |a|b|           endln           |c|d|
    |---------------+---------------+---------------+---------------|
    |                       |               |                       |
 36 |      scrncode     |   spare5  |             spare6            |
    |===============+=========  rangexx[4] =========+===============|
    |                         | | |                           | | |
 40 |           begln         |a|b|           endln           |c|d|
    |---------------+---------------+---------------+---------------|
```

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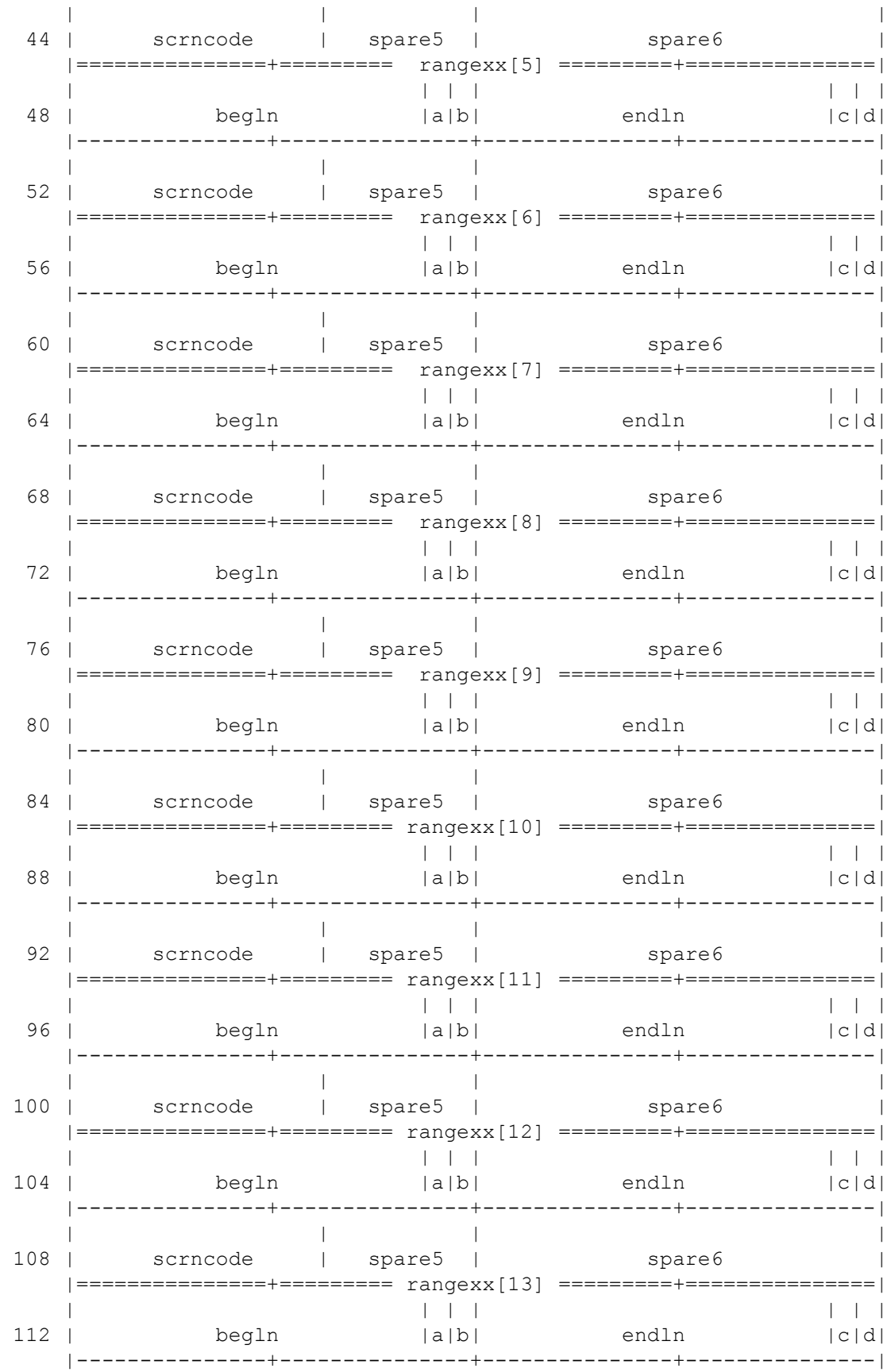


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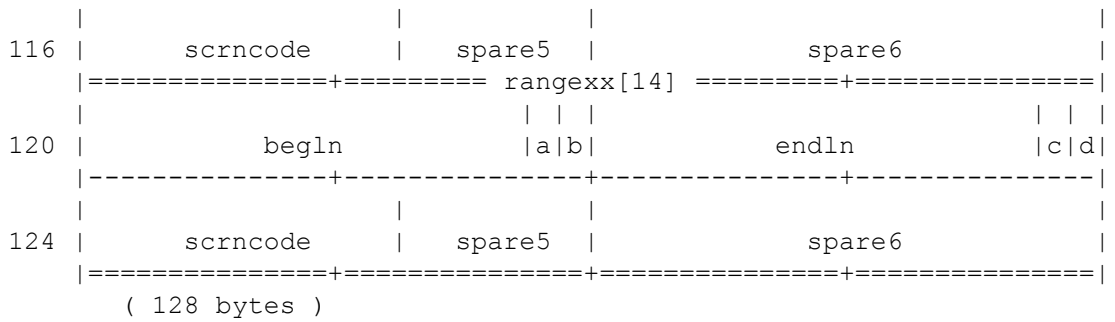


## 4. Population Rules for RLicscrrng

**Relation Description:** IC Screened Range

This relation holds the screen code associated with a range of directory numbers: indexed by large noc (NPA-NXX translation).

**Attribute: tupnum**

**Fullname:** tuple number

**Attribute Description** A number indicating which tuple of ranges for an lnoc this one is.

**Attribute: lnoc**

**Fullname:** Large noc

**Attribute Description** Large noc. Each lnoc has an entry in RLicnpamap.

**Attribute: entries**

**Fullname:** entries

**Attribute Description** The number of entries in the arrays of ranges. This counts all of the entries filled in all of the tuples with the same lnoc as part of the key.

**Attribute: range[*]**

**Fullname:** range

**Attribute Description** Each attribute contains the beginning and ending line numbers (XXXX) plus the screening information for that group of lines. Since these attributes represent ranges of screened lines, not all will be used in some tuples.

**Attribute: range[*].begln**

**Fullname:** begin line

**Attribute Description** the first line number (XXXX, 0000-9999) of the range of screened lines.

**Attribute: range[*].Pare1**

**Fullname:** spare bit 1

**Attribute Description** This attribute is for fast/special features.

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**Attribute: range[*].Pare2**

**Fullname:** spare bit 2

**Attribute Description** This attribute is for fast/special features.

**Attribute: range[*].endln**

**Fullname:** endline

**Attribute Description** the last line number (XXXX, 0000-9999) of the range of screened lines.

**Attribute: range[*].Pare3**

**Fullname:** spare bit 3

**Attribute Description** This attribute is for fast/special features.

**Attribute: range[*].Pare4**

**Fullname:** spare bit 4

**Attribute Description** This attribute is for fast/special features.

**Attribute: range[*].scrncode**

**Fullname:** screen code

**Attribute Description** Any value from 0-999, zero is reserved to mean not screened; Each scrncode, except zero, must also have an entry in RLicscrcde. Screen code 999 is reserved for testing.

**Attribute: range[*].Pare5**

**Fullname:** spare field 5

**Attribute Description** This attribute is for fast/special features.

**Attribute: range[*].Pare6**

**Fullname:** spare field 6

**Attribute Description** This attribute is for fast/special features.

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# ICX_ICI

## 1. Description

This relation associates ISAT group and ici index with real ICI.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 63 |
| expected number of tuples | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFR |
| application | GCRTG |
| relation type | DBSTATIC |
| ks key store | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
ICX_ICI     relid = 899   DBSTATIC   DBACC_CIND  DBPRAM    LPFR    GCRTG
     isat_idx    DMISATGRP    (ushort: 6)  <--- key, not stored
     grpnum      DMGRUPNM     (ushort: 11)
     ici1        DMICI        (enum: 8)
     ici2        DMICI        (enum: 8)
     ici3        DMICI        (enum: 8)
     ici4        DMICI        (enum: 8)
     ici5        DMICI        (enum: 8)
     ici6        DMICI        (enum: 8)
     ici7        DMICI        (enum: 8)
     ici8        DMICI        (enum: 8)
     ici9        DMICI        (enum: 8)
     ici10       DMICI        (enum: 8)
     ici11       DMICI        (enum: 8)
     ici12       DMICI        (enum: 8)
     ici13       DMICI        (enum: 8)
     ici14       DMICI        (enum: 8)
     ici15       DMICI        (enum: 8)
     ici16       DMICI        (enum: 8)
         User and Compacted Tuple Layout    ICX_ICI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |           |                                                   |
  0 |  isat_idx |***************************************************|
    |---------------+---------------+---------------+---------------|
    |                       |         |               |               |
  4 |        grpnum         |*********|      ici1     |      ici2     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  8 |      ici3     |      ici4     |      ici5     |      ici6     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 12 |      ici7     |      ici8     |      ici9     |     ici10     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
```

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```
 16 |     ici11     |     ici12     |     ici13     |     ici14     |
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
 20 |     ici15     |     ici16     |*******************************|
    |---------------+---------------+---------------+---------------|
      ( 24 bytes )
     grpnum      DMGRUPNM     (ushort: 11)
     ici1        DMICI        (enum: 8)
     ici2        DMICI        (enum: 8)
     ici3        DMICI        (enum: 8)
     ici4        DMICI        (enum: 8)
     ici5        DMICI        (enum: 8)
     ici6        DMICI        (enum: 8)
     ici7        DMICI        (enum: 8)
     ici8        DMICI        (enum: 8)
     ici9        DMICI        (enum: 8)
     ici10       DMICI        (enum: 8)
     ici11       DMICI        (enum: 8)
     ici12       DMICI        (enum: 8)
     ici13       DMICI        (enum: 8)
     ici14       DMICI        (enum: 8)
     ici15       DMICI        (enum: 8)
     ici16       DMICI        (enum: 8)
           Stored Tuple Layout      ICX_ICI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |         |               |               |
  0 |        grpnum         |*********|      ici1     |      ici2     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |      ici3     |      ici4     |      ici5     |      ici6     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  8 |      ici7     |      ici8     |      ici9     |     ici10     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 12 |     ici11     |     ici12     |     ici13     |     ici14     |
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
 16 |     ici15     |     ici16     |*******************************|
    |---------------+---------------+---------------+---------------|
      ( 20 bytes )
domain alICX_ICI   struct  (3 sub-attributes)
        isat_idx    .18.fake     (ushort: 6)
        grpnum      .19.fake     (ushort: 11)
        ici         .20.fake     (array [ 16 ] of unsigned char )
        Structure Layout      alICX_ICI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |           |                                                   |
  0 |  isat_idx |***************************************************|
    |---------------+---------------+---------------+---------------|
```

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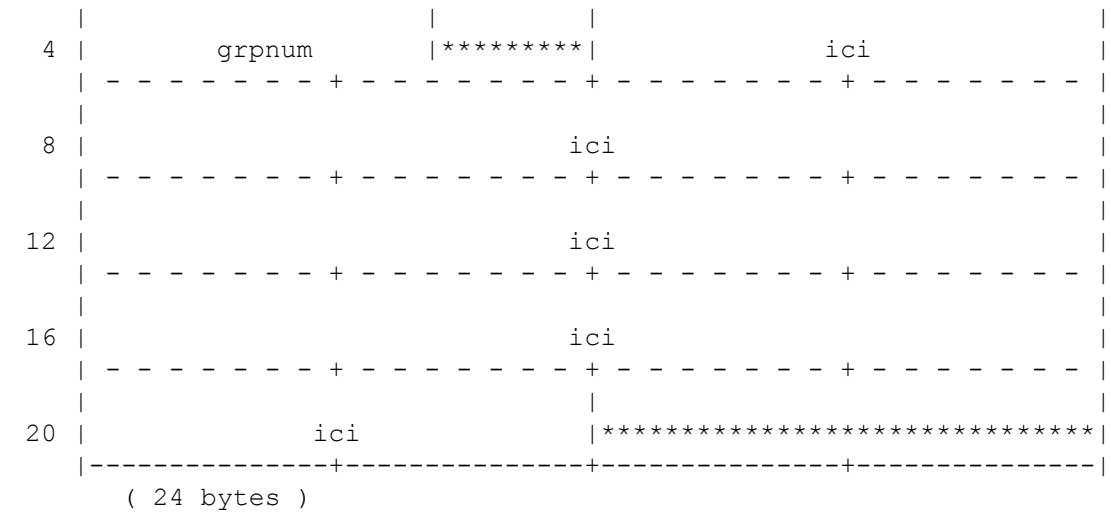


## 4. Population Rules for RLicx_ici

**Relation Description**
Associates with ISAT group and ICI index with real ICI. See general information.

**Attribute: isat_idx**

**Fullname:** ISAT index

**Attribute Description** ISAT index for ISAT multi-line hunt group number.

**Attribute: grpnum**

**Fullname:** multi-line hunt group number

**Attribute Description** This value of grpnum corresponds to the value of isat_idx, the key to this tuple. This correspondence is shown in the RLrt_mhg relation where both RLicx_ici.isat_idx and RLicx_ici.grpnum appear as attributes with the same names as in RLicx_ici. See population rules for RLrt_mhg.grpnum and RLrt_mhg.isat_idx for more details.

**Attribute: ici[*]**

**Fullname:** ISDN Call Identifier

**Attribute Description** A positional list of ici values that are subscribed to by a hunt group. ici1 - ici16: A real ici value is represented by this ici index (array index) for this group. ICI Values are assigned to calls based on digits dialed, events happening to the call, etc. ICI values are used for:
display (ICLID and OCLID)
hunting ISAT terminals
queuing for ISAT terminals
A maximum of 16 ici's are allowed for a particular group. Only values of ici for ICI_FX1-8, ICI_TIE1-8 and ICI_CNET have a corresponding tuple in RLrticitk. When a group subscribes to ICI_EMER, the group is treated as special with respect to the members in the group. If ICI_EMER is assigned to the ISAT group, then all members must subscribe to ICI_EMER. See RLisatmbr.ici_subr[63]. If ICI_QUE is assigned to the ISAT group, then all members must subscribe to ICI_QUE and RLrt_mhg.qihtns (keyed by grpnum) must be DBYES. Values - enumerated from DMICI, but only those notated in domain as valid for hunting should be used. See values the following. Every multi-line hunt group must subscribe to at least 1 of ICI_LDN1-8,

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ICI_WAT1-5. There must be a corresponding tuple in RLrtdn_mhg with RLrtdn_mhg.isat_hunt = DBYES. Also, if ONE of ICI_LDN1 thru ICI_LDN8 is used for a group, then there must be ONE corresponding tuple in RLrtdn_mhg such that RLrtdn_mhg.subgrp = 0. If TWO of ICI_LDN1 thru ICI_LDN8 are used for a group, then there must be TWO corresponding tuples in RLrtdn_mhg such that RLrtdn_mhg.subgrp = 0 for one tuple and RLrtdn_mhg.subgrp = 1 for the other tuple. If THREE of ICI_LDN1 thru ICI_LDN8 are used for a group, then there must be THREE corresponding tuples in RLrtdn_mhg such that RLrtdn_mhg.subgrp = 0 for one tuple, RLrtdn_mhg.subgrp = 1 for the another tuple, and RLrtdn_mhg.subgrp = 2 for the third tuple. If EIGHT of ICI_LDN1 thru ICI_LDN8 are used for a group, then there must be EIGHT corresponding tuples in RLrtdn_mhg such that RLrtdn_mhg.subgrp = 0 for one tuple, RLrtdn_mhg.subgrp = 1 for the another tuple, RLrtdn_mhg.subgrp = 2 for another tuple, etc. up to RLrtdn_mhg.subgrp = 7 for the eighth tuple. Similarly rules apply for WAT1 thru WAT5. That is, if the maximum of WAT1, WAT2, WAT3, WAT4, and WAT5 are used by a group, then there must be 5 corresponding tuples in RLrtdn_mhg with RLrtdn_mhg.subgrp ranging from 0 thru 4. The following listed ici's are precedence ici's.

`ICI_PPFOVR, ICI_PPFLSH, ICI_PPIMMD, ICI_PPPRIO`
`ICI_PPEXEC, ICI_PPROUT`

If any of these are subscribed to then you must have selected at least 1 of ICI_LDN1-8 or at least 1 of ICI_WAT1-5 but not both. In this case no other ICI's are valid except for ICI_EMER or ICI_QUE. Default: A value of ICI_NULL means that the array element is not defined. Dependencies: there should be a tuple in RLrticitk or RLrtisatmp which uses the corresponding i ci_idx value. In the case of RLrtisatmp, the ici should be the same. Each ISAT group must have at least one ici in the positional list. A user is not allowed to update all ici's to NULL.

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# ID_CF

## 1. Description

Individualized dialing plan constructed feature definition.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 500 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| l1 length of subkey1 | 10 |
| p1 position of subkey1 | 6 |
| ks key store | DBNO |
| ignore key bits | 0-5 |

## 3. Field Layout

```
ID_CF       relid = 1254  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     feat_id     DMMCC_FID    (ushort)  <--- key, not stored
     actvn       DMMC_ACTYP   (enum: 3)
 (a) dctvn       DMMC_DCTYP   (enum: 2)
 (b) stop_chrg   DMIDP_STCH   (enum: 2)
 (c) ch_act      DMBOOL       (enum: 1)
 (d) ch_gp_car   DMBOOL       (enum: 1)
 (e) ch_pic2     DMBOOL       (enum: 1)
 (f) ch_pic3     DMBOOL       (enum: 1)
 (g) ch_pic4     DMBOOL       (enum: 1)
 (h) ffcf1       DMBOOL       (enum: 1)
 (i) ffcf2       DMBOOL       (enum: 1)
        User and Compacted Tuple Layout  ID_CF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            feat_id            |*******************************|
   |---------------+---------------+---------------+---------------|
   |     |   |   | | | | | | | |                                   |
 4 |actvn| a | b |c|d|e|f|g|h|i|***********************************|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
     actvn       DMMC_ACTYP   (enum: 3)
 (a) dctvn       DMMC_DCTYP   (enum: 2)
 (b) stop_chrg   DMIDP_STCH   (enum: 2)
 (c) ch_act      DMBOOL       (enum: 1)
 (d) ch_gp_car   DMBOOL       (enum: 1)
 (e) ch_pic2     DMBOOL       (enum: 1)
 (f) ch_pic3     DMBOOL       (enum: 1)
 (g) ch_pic4     DMBOOL       (enum: 1)
 (h) ffcf1       DMBOOL       (enum: 1)
 (i) ffcf2       DMBOOL       (enum: 1)
          Stored Tuple Layout    ID_CF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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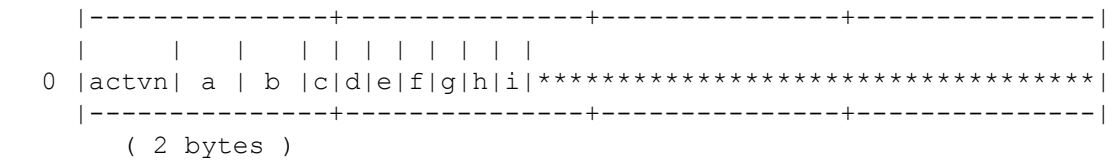


## 4. Population Rules for RLid_cf

**Relation Description**
Construct the individualized dialing plan feature. Set the basic definition of the feature.

**Attribute: feat_id**

**Fullname:** Feature Identification

**Attribute Description** Identifies the constructed feature ID.

**Attribute: actvn**

**Fullname:** Activation Method

**Attribute Description** Indicates the method of activating BRCS features. The two attributes (actions), activation and deactivation together determine the customer options for the feature.

**Attribute: dctvn**

**Fullname:** Deactivation Method

**Attribute Description** Indicates the method of deactivating BRCS features. The two attributes (actions), activation and deactivation together determine the customer options for the feature.

**Attribute: ch_act**

**Fullname:** Change Alternate Code Treatment

**Attribute Description** Allowed to change alternate code treatment (ACT). If DBYES, then 2 tuples should exist in RLidp_dtre or RLidp_cnfl with action set to ACN_ACT_ON and ACN_ACT_OFF for the respective dial codes. (This rule is not presently enforced in all tuples, but it should be followed when appropriate.)

**Attribute: ch_gp_car**

**Fullname:** Change group carrier.

**Attribute Description** Allowed to change group carrier. If DBYES, then must a tuple should exist in RLidp_dtre or RLidp_cnfl with action set to ACT_GRPCARARCH for the dial code to change group carrier.

**Attribute: ch_pic2**

**Fullname:** Change primary intra-LATA-toll group carrier ID.

**Attribute Description** Is user allowed to change intra-LATA-toll group carrier? If DBYES, a tuple may exist in RLidp_dtre or Rlidp_cnfl with action set to ACN_PIC2CH for the dial code to change group carrier.

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**Attribute: ch_pic3**

**Fullname:** Change Primary International Group Carrier ID.

**Attribute Description** Is user allowed to change international group carrier? If DBYES, a tuple may exist in RLidp_dtre or Rlidp_cnfl with action set to ACN_PIC3CH for the dial code to change group carrier.

**Attribute: ch_pic4**

**Fullname:** Change Primary Intra-LATA-Local Group Carrier ID.

**Attribute Description** Is user allowed to change intra-LATA-local group carrier? If DBYES, a tuple may exist in RLidp_dtre or Rlidp_cnfl with action set to ACN_PIC4CH for the dial code to change group carrier.

**Attribute: stop_chrg**

**Fullname:** Stop Charge

**Attribute Description** Identify the type of calls which are not to be charged.

**Attribute: ffcf1**

**Fullname:** bit reserved for future field feature use

**Attribute Description** Not assigned yet.

**Attribute: ffcf2**

**Fullname:** bit reserved for future field feature use

**Attribute Description** Not assigned yet.

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# ID_IFLOW

## 1. Description

Static relation that maps pattern ID to interflow reconfiguration data. The interflow data is a mapping the defines the next interflow state per serving team and the mapping of serving teams to interflow destinations. This data is used by auto-reconfiguration to set up serving team data for a scheduled interflow activation/deactivation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 84 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | ACDQ |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 1024 |
| page level | 2 |
| permutation indicator | un_perm |

## 3. Field Layout

```
ID_IFLOW    relid = 1149  DBSTATIC   DBACC_CIND  DBPRAM    LP      ACDQ
     pat_id      DMUNS8       (ushort: 8)  <--- key
     idest1      DMUNS8       (ushort: 8)
     idest2      DMUNS8       (ushort: 8)
     idest3      DMUNS8       (ushort: 8)
     idest4      DMUNS8       (ushort: 8)
     idest5      DMUNS8       (ushort: 8)
     idest6      DMUNS8       (ushort: 8)
     idest7      DMUNS8       (ushort: 8)
     idest8      DMUNS8       (ushort: 8)
     idest9      DMUNS8       (ushort: 8)
     idest10     DMUNS8       (ushort: 8)
     idest11     DMUNS8       (ushort: 8)
     idest12     DMUNS8       (ushort: 8)
     idest13     DMUNS8       (ushort: 8)
     idest14     DMUNS8       (ushort: 8)
     idest15     DMUNS8       (ushort: 8)
     idest16     DMUNS8       (ushort: 8)
     idest17     DMUNS8       (ushort: 8)
     idest18     DMUNS8       (ushort: 8)
     idest19     DMUNS8       (ushort: 8)
     idest20     DMUNS8       (ushort: 8)
     idest21     DMUNS8       (ushort: 8)
     idest22     DMUNS8       (ushort: 8)
     idest23     DMUNS8       (ushort: 8)
     idest24     DMUNS8       (ushort: 8)
     idest25     DMUNS8       (ushort: 8)
     idest26     DMUNS8       (ushort: 8)
     idest27     DMUNS8       (ushort: 8)
     idest28     DMUNS8       (ushort: 8)
     idest29     DMUNS8       (ushort: 8)
     idest30     DMUNS8       (ushort: 8)
     idest31     DMUNS8       (ushort: 8)
```

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```
idest32     DMUNS8       (ushort: 8)
idest33     DMUNS8       (ushort: 8)
idest34     DMUNS8       (ushort: 8)
idest35     DMUNS8       (ushort: 8)
idest36     DMUNS8       (ushort: 8)
idest37     DMUNS8       (ushort: 8)
idest38     DMUNS8       (ushort: 8)
idest39     DMUNS8       (ushort: 8)
idest40     DMUNS8       (ushort: 8)
idest41     DMUNS8       (ushort: 8)
idest42     DMUNS8       (ushort: 8)
idest43     DMUNS8       (ushort: 8)
idest44     DMUNS8       (ushort: 8)
idest45     DMUNS8       (ushort: 8)
idest46     DMUNS8       (ushort: 8)
idest47     DMUNS8       (ushort: 8)
idest48     DMUNS8       (ushort: 8)
idest49     DMUNS8       (ushort: 8)
idest50     DMUNS8       (ushort: 8)
idest51     DMUNS8       (ushort: 8)
idest52     DMUNS8       (ushort: 8)
idest53     DMUNS8       (ushort: 8)
idest54     DMUNS8       (ushort: 8)
idest55     DMUNS8       (ushort: 8)
idest56     DMUNS8       (ushort: 8)
idest57     DMUNS8       (ushort: 8)
idest58     DMUNS8       (ushort: 8)
idest59     DMUNS8       (ushort: 8)
idest60     DMUNS8       (ushort: 8)
idest61     DMUNS8       (ushort: 8)
idest62     DMUNS8       (ushort: 8)
idest63     DMUNS8       (ushort: 8)
idest64     DMUNS8       (ushort: 8)
idest65     DMUNS8       (ushort: 8)
idest66     DMUNS8       (ushort: 8)
idest67     DMUNS8       (ushort: 8)
idest68     DMUNS8       (ushort: 8)
idest69     DMUNS8       (ushort: 8)
idest70     DMUNS8       (ushort: 8)
idest71     DMUNS8       (ushort: 8)
idest72     DMUNS8       (ushort: 8)
idest73     DMUNS8       (ushort: 8)
idest74     DMUNS8       (ushort: 8)
idest75     DMUNS8       (ushort: 8)
idest76     DMUNS8       (ushort: 8)
idest77     DMUNS8       (ushort: 8)
idest78     DMUNS8       (ushort: 8)
idest79     DMUNS8       (ushort: 8)
idest80     DMUNS8       (ushort: 8)
idest81     DMUNS8       (ushort: 8)
idest82     DMUNS8       (ushort: 8)
idest83     DMUNS8       (ushort: 8)
idest84     DMUNS8       (ushort: 8)
idest85     DMUNS8       (ushort: 8)
```

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```
idest86     DMUNS8       (ushort: 8)
idest87     DMUNS8       (ushort: 8)
idest88     DMUNS8       (ushort: 8)
idest89     DMUNS8       (ushort: 8)
idest90     DMUNS8       (ushort: 8)
idest91     DMUNS8       (ushort: 8)
idest92     DMUNS8       (ushort: 8)
idest93     DMUNS8       (ushort: 8)
idest94     DMUNS8       (ushort: 8)
idest95     DMUNS8       (ushort: 8)
idest96     DMUNS8       (ushort: 8)
idest97     DMUNS8       (ushort: 8)
idest98     DMUNS8       (ushort: 8)
idest99     DMUNS8       (ushort: 8)
idest100    DMUNS8       (ushort: 8)
idest101    DMUNS8       (ushort: 8)
idest102    DMUNS8       (ushort: 8)
idest103    DMUNS8       (ushort: 8)
idest104    DMUNS8       (ushort: 8)
idest105    DMUNS8       (ushort: 8)
idest106    DMUNS8       (ushort: 8)
idest107    DMUNS8       (ushort: 8)
idest108    DMUNS8       (ushort: 8)
idest109    DMUNS8       (ushort: 8)
idest110    DMUNS8       (ushort: 8)
idest111    DMUNS8       (ushort: 8)
idest112    DMUNS8       (ushort: 8)
idest113    DMUNS8       (ushort: 8)
idest114    DMUNS8       (ushort: 8)
idest115    DMUNS8       (ushort: 8)
idest116    DMUNS8       (ushort: 8)
idest117    DMUNS8       (ushort: 8)
idest118    DMUNS8       (ushort: 8)
idest119    DMUNS8       (ushort: 8)
idest120    DMUNS8       (ushort: 8)
idest121    DMUNS8       (ushort: 8)
idest122    DMUNS8       (ushort: 8)
idest123    DMUNS8       (ushort: 8)
idest124    DMUNS8       (ushort: 8)
idest125    DMUNS8       (ushort: 8)
idest126    DMUNS8       (ushort: 8)
idest127    DMUNS8       (ushort: 8)
idest128    DMUNS8       (ushort: 8)
rdest1      DMUNS8       (ushort: 8)
rdest2      DMUNS8       (ushort: 8)
rdest3      DMUNS8       (ushort: 8)
rdest4      DMUNS8       (ushort: 8)
rdest5      DMUNS8       (ushort: 8)
rdest6      DMUNS8       (ushort: 8)
rdest7      DMUNS8       (ushort: 8)
rdest8      DMUNS8       (ushort: 8)
rdest9      DMUNS8       (ushort: 8)
rdest10     DMUNS8       (ushort: 8)
rdest11     DMUNS8       (ushort: 8)
```

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```
rdest12     DMUNS8       (ushort: 8)
rdest13     DMUNS8       (ushort: 8)
rdest14     DMUNS8       (ushort: 8)
rdest15     DMUNS8       (ushort: 8)
rdest16     DMUNS8       (ushort: 8)
rdest17     DMUNS8       (ushort: 8)
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rdest23     DMUNS8       (ushort: 8)
rdest24     DMUNS8       (ushort: 8)
rdest25     DMUNS8       (ushort: 8)
rdest26     DMUNS8       (ushort: 8)
rdest27     DMUNS8       (ushort: 8)
rdest28     DMUNS8       (ushort: 8)
rdest29     DMUNS8       (ushort: 8)
rdest30     DMUNS8       (ushort: 8)
rdest31     DMUNS8       (ushort: 8)
rdest32     DMUNS8       (ushort: 8)
rdest33     DMUNS8       (ushort: 8)
rdest34     DMUNS8       (ushort: 8)
rdest35     DMUNS8       (ushort: 8)
rdest36     DMUNS8       (ushort: 8)
rdest37     DMUNS8       (ushort: 8)
rdest38     DMUNS8       (ushort: 8)
rdest39     DMUNS8       (ushort: 8)
rdest40     DMUNS8       (ushort: 8)
rdest41     DMUNS8       (ushort: 8)
rdest42     DMUNS8       (ushort: 8)
rdest43     DMUNS8       (ushort: 8)
rdest44     DMUNS8       (ushort: 8)
rdest45     DMUNS8       (ushort: 8)
rdest46     DMUNS8       (ushort: 8)
rdest47     DMUNS8       (ushort: 8)
rdest48     DMUNS8       (ushort: 8)
rdest49     DMUNS8       (ushort: 8)
rdest50     DMUNS8       (ushort: 8)
rdest51     DMUNS8       (ushort: 8)
rdest52     DMUNS8       (ushort: 8)
rdest53     DMUNS8       (ushort: 8)
rdest54     DMUNS8       (ushort: 8)
rdest55     DMUNS8       (ushort: 8)
rdest56     DMUNS8       (ushort: 8)
rdest57     DMUNS8       (ushort: 8)
rdest58     DMUNS8       (ushort: 8)
rdest59     DMUNS8       (ushort: 8)
rdest60     DMUNS8       (ushort: 8)
rdest61     DMUNS8       (ushort: 8)
rdest62     DMUNS8       (ushort: 8)
rdest63     DMUNS8       (ushort: 8)
rdest64     DMUNS8       (ushort: 8)
rdest65     DMUNS8       (ushort: 8)
```

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```
rdest66     DMUNS8       (ushort: 8)
rdest67     DMUNS8       (ushort: 8)
rdest68     DMUNS8       (ushort: 8)
rdest69     DMUNS8       (ushort: 8)
rdest70     DMUNS8       (ushort: 8)
rdest71     DMUNS8       (ushort: 8)
rdest72     DMUNS8       (ushort: 8)
rdest73     DMUNS8       (ushort: 8)
rdest74     DMUNS8       (ushort: 8)
rdest75     DMUNS8       (ushort: 8)
rdest76     DMUNS8       (ushort: 8)
rdest77     DMUNS8       (ushort: 8)
rdest78     DMUNS8       (ushort: 8)
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rdest81     DMUNS8       (ushort: 8)
rdest82     DMUNS8       (ushort: 8)
rdest83     DMUNS8       (ushort: 8)
rdest84     DMUNS8       (ushort: 8)
rdest85     DMUNS8       (ushort: 8)
rdest86     DMUNS8       (ushort: 8)
rdest87     DMUNS8       (ushort: 8)
rdest88     DMUNS8       (ushort: 8)
rdest89     DMUNS8       (ushort: 8)
rdest90     DMUNS8       (ushort: 8)
rdest91     DMUNS8       (ushort: 8)
rdest92     DMUNS8       (ushort: 8)
rdest93     DMUNS8       (ushort: 8)
rdest94     DMUNS8       (ushort: 8)
rdest95     DMUNS8       (ushort: 8)
rdest96     DMUNS8       (ushort: 8)
rdest97     DMUNS8       (ushort: 8)
rdest98     DMUNS8       (ushort: 8)
rdest99     DMUNS8       (ushort: 8)
rdest100    DMUNS8       (ushort: 8)
rdest101    DMUNS8       (ushort: 8)
rdest102    DMUNS8       (ushort: 8)
rdest103    DMUNS8       (ushort: 8)
rdest104    DMUNS8       (ushort: 8)
rdest105    DMUNS8       (ushort: 8)
rdest106    DMUNS8       (ushort: 8)
rdest107    DMUNS8       (ushort: 8)
rdest108    DMUNS8       (ushort: 8)
rdest109    DMUNS8       (ushort: 8)
rdest110    DMUNS8       (ushort: 8)
rdest111    DMUNS8       (ushort: 8)
rdest112    DMUNS8       (ushort: 8)
rdest113    DMUNS8       (ushort: 8)
rdest114    DMUNS8       (ushort: 8)
rdest115    DMUNS8       (ushort: 8)
rdest116    DMUNS8       (ushort: 8)
rdest117    DMUNS8       (ushort: 8)
rdest118    DMUNS8       (ushort: 8)
rdest119    DMUNS8       (ushort: 8)
```

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```
    rdest120    DMUNS8       (ushort: 8)
    rdest121    DMUNS8       (ushort: 8)
    rdest122    DMUNS8       (ushort: 8)
    rdest123    DMUNS8       (ushort: 8)
    rdest124    DMUNS8       (ushort: 8)
    rdest125    DMUNS8       (ushort: 8)
    rdest126    DMUNS8       (ushort: 8)
    rdest127    DMUNS8       (ushort: 8)
    rdest128    DMUNS8       (ushort: 8)
    adbits0     DMHEX32      (ulong)
    adbits1     DMHEX32      (ulong)
    adbits2     DMHEX32      (ulong)
    adbits3     DMHEX32      (ulong)
    adbits4     DMHEX32      (ulong)
    adbits5     DMHEX32      (ulong)
    adbits6     DMHEX32      (ulong)
    adbits7     DMHEX32      (ulong)
        User, Compacted and Stored Tuple Layout   ID_IFLOW
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 0 |     pat_id    |     idest1    |     idest2    |     idest3    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 4 |     idest4    |     idest5    |     idest6    |     idest7    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 8 |     idest8    |     idest9    |    idest10    |    idest11    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
12 |    idest12    |    idest13    |    idest14    |    idest15    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
16 |    idest16    |    idest17    |    idest18    |    idest19    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
20 |    idest20    |    idest21    |    idest22    |    idest23    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
24 |    idest24    |    idest25    |    idest26    |    idest27    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
28 |    idest28    |    idest29    |    idest30    |    idest31    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
32 |    idest32    |    idest33    |    idest34    |    idest35    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
36 |    idest36    |    idest37    |    idest38    |    idest39    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
40 |    idest40    |    idest41    |    idest42    |    idest43    |
   |---------------+---------------+---------------+---------------|
```

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| | | | | |
|---|---|---|---|---|
| | | | | |
| 44 | idest44 | idest45 | idest46 | idest47 |
| | | | | |
| 48 | idest48 | idest49 | idest50 | idest51 |
| | | | | |
| 52 | idest52 | idest53 | idest54 | idest55 |
| | | | | |
| 56 | idest56 | idest57 | idest58 | idest59 |
| | | | | |
| 60 | idest60 | idest61 | idest62 | idest63 |
| | | | | |
| 64 | idest64 | idest65 | idest66 | idest67 |
| | | | | |
| 68 | idest68 | idest69 | idest70 | idest71 |
| | | | | |
| 72 | idest72 | idest73 | idest74 | idest75 |
| | | | | |
| 76 | idest76 | idest77 | idest78 | idest79 |
| | | | | |
| 80 | idest80 | idest81 | idest82 | idest83 |
| | | | | |
| 84 | idest84 | idest85 | idest86 | idest87 |
| | | | | |
| 88 | idest88 | idest89 | idest90 | idest91 |
| | | | | |
| 92 | idest92 | idest93 | idest94 | idest95 |
| | | | | |
| 96 | idest96 | idest97 | idest98 | idest99 |
| | | | | |
| 100 | idest100 | idest101 | idest102 | idest103 |
| | | | | |
| 104 | idest104 | idest105 | idest106 | idest107 |
| | | | | |
| 108 | idest108 | idest109 | idest110 | idest111 |
| | | | | |
| 112 | idest112 | idest113 | idest114 | idest115 |

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| | | | | |
|---|---|---|---|---|
| 116 | idest116 | idest117 | idest118 | idest119 |
| 120 | idest120 | idest121 | idest122 | idest123 |
| 124 | idest124 | idest125 | idest126 | idest127 |
| 128 | idest128 | rdest1 | rdest2 | rdest3 |
| 132 | rdest4 | rdest5 | rdest6 | rdest7 |
| 136 | rdest8 | rdest9 | rdest10 | rdest11 |
| 140 | rdest12 | rdest13 | rdest14 | rdest15 |
| 144 | rdest16 | rdest17 | rdest18 | rdest19 |
| 148 | rdest20 | rdest21 | rdest22 | rdest23 |
| 152 | rdest24 | rdest25 | rdest26 | rdest27 |
| 156 | rdest28 | rdest29 | rdest30 | rdest31 |
| 160 | rdest32 | rdest33 | rdest34 | rdest35 |
| 164 | rdest36 | rdest37 | rdest38 | rdest39 |
| 168 | rdest40 | rdest41 | rdest42 | rdest43 |
| 172 | rdest44 | rdest45 | rdest46 | rdest47 |
| 176 | rdest48 | rdest49 | rdest50 | rdest51 |
| 180 | rdest52 | rdest53 | rdest54 | rdest55 |
| 184 | rdest56 | rdest57 | rdest58 | rdest59 |

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| | | | | |
|---|---|---|---|---|
| 188 | rdest60 | rdest61 | rdest62 | rdest63 |
| 192 | rdest64 | rdest65 | rdest66 | rdest67 |
| 196 | rdest68 | rdest69 | rdest70 | rdest71 |
| 200 | rdest72 | rdest73 | rdest74 | rdest75 |
| 204 | rdest76 | rdest77 | rdest78 | rdest79 |
| 208 | rdest80 | rdest81 | rdest82 | rdest83 |
| 212 | rdest84 | rdest85 | rdest86 | rdest87 |
| 216 | rdest88 | rdest89 | rdest90 | rdest91 |
| 220 | rdest92 | rdest93 | rdest94 | rdest95 |
| 224 | rdest96 | rdest97 | rdest98 | rdest99 |
| 228 | rdest100 | rdest101 | rdest102 | rdest103 |
| 232 | rdest104 | rdest105 | rdest106 | rdest107 |
| 236 | rdest108 | rdest109 | rdest110 | rdest111 |
| 240 | rdest112 | rdest113 | rdest114 | rdest115 |
| 244 | rdest116 | rdest117 | rdest118 | rdest119 |
| 248 | rdest120 | rdest121 | rdest122 | rdest123 |
| 252 | rdest124 | rdest125 | rdest126 | rdest127 |
| 256 | rdest128 | ********** | ********** | ********** |

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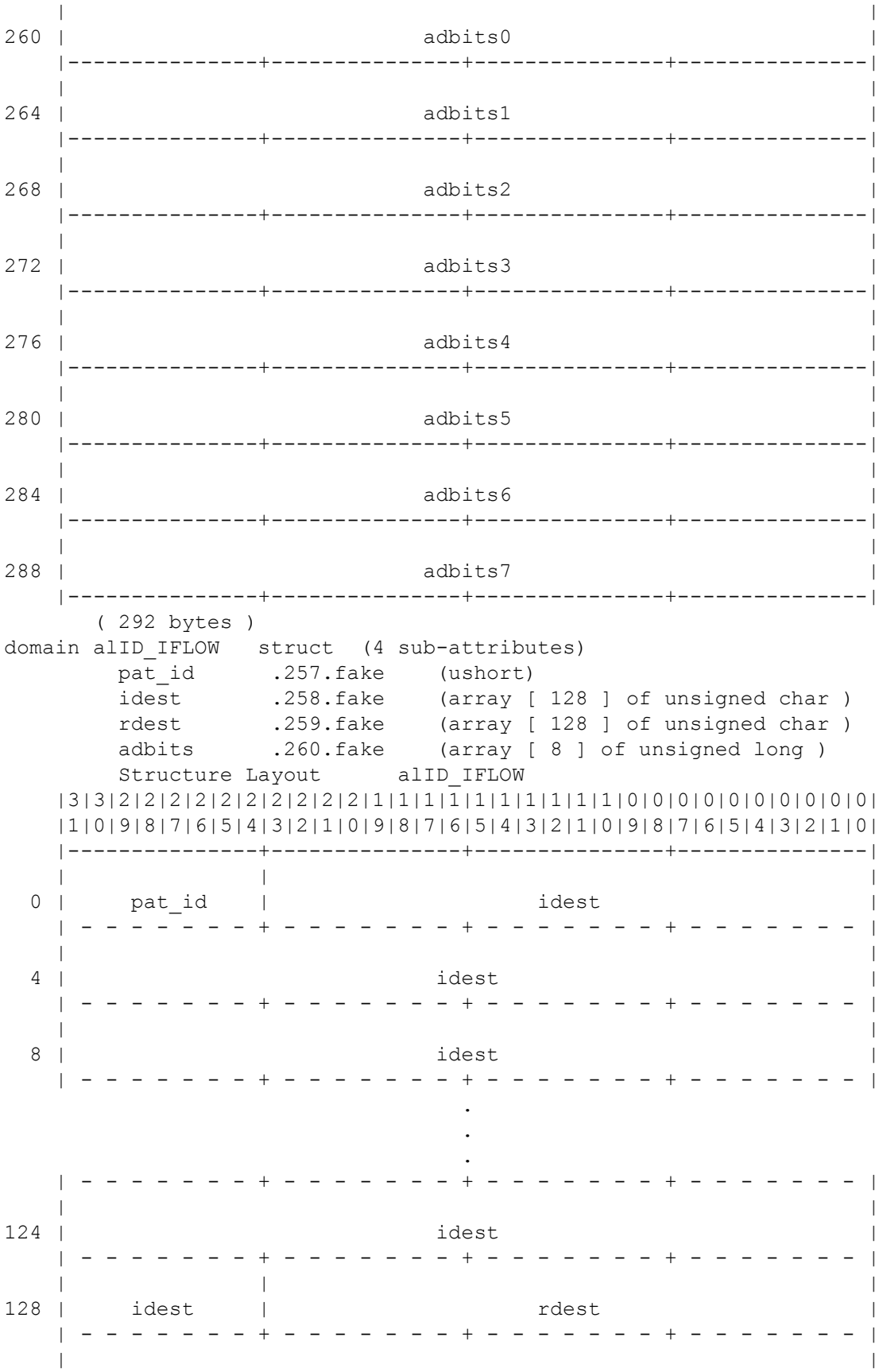


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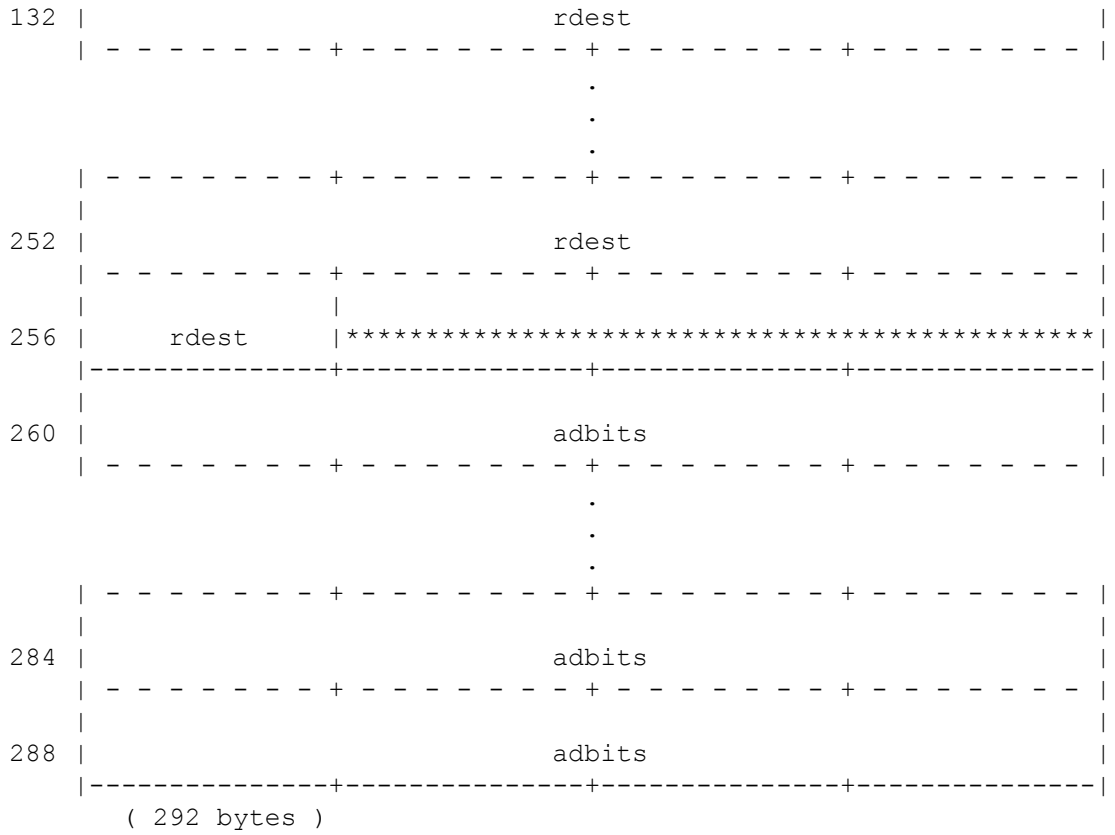


## 4. Population Rules for RLid_iflow

**Relation Description**
Interflow data for an auto-reconfiguration pattern.

Interflow Activation/Deactivation pattern data. This is a static relation used by the OSPS auto-reconfiguration process to set up serving team data for a scheduled interflow activation/deactivation. It contains a mapping between an auto-reconfiguration pattern ID in RLaut_rec and interflow activation/deactivation pattern data in this relation. A pattern is a tuple that has data that will be acted upon at some time in the future as specified by the time data in the pattern. Pattern tuples in this relation contain data on a serving team basis. The data consists of the next scheduled interflow status (on or off) of a serving team and the destination where calls for the serving team will be interflowed.

**Attribute: pat_id**

**Fullname:** Pattern ID

**Attribute Description** Maps pattern data in this tuple to pattern tuple in RLaut_rec. The pattern ID is the key of the pattern (tuple) that is defined in RLaut_rec in terms of the time of day that the pattern will be processed. Pattern ID is also the key of a pattern tuple in this relation. The pattern ID links pattern data in this relation to the pattern definition in RLaut_rec.

**Attribute: idest[*]**

**Fullname:** interflow destination 1 thru interflow destination 128

**Attribute Description** Interflow destination per serving team 1 thru 128. The destination is a number 129 thru 144 that is referred to as an interflow serving team number. This number maps to

a PRI that is used for interflowing calls to a specific destination.

**Attribute: rdest[*]**

**Fullname:** reroute destination 1 thru reroute destination 128

**Attribute Description** Reroute destination per serving team 1 thru 128. This is a number 1 - 16 referred to as an internal reroute number. It corresponds to a specific destination to which calls for the serving team are being interflowed via reroute.

**Attribute: adbits[*]**

**Fullname:** activation/deactivation bit map 0 thru 7

**Attribute Description** Activation/deactivation status per serving team 1 thru 128. This is a 256-bit bitmap stored in 8 32-bit words. Each 2 bits represents the next scheduled interflow state of the serving team it corresponds to. There are 16 serving teams represented per word.

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# ID_OPER

## 1. Description

Static relation defining mapping between aut_rec pattern ids and operator IDs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 84 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | ACDQ |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 1024 |
| page level | 2 |
| permutation indicator | un_perm |

## 3. Field Layout

```
ID_OPER     relid = 767   DBSTATIC   DBACC_CIND  DBPRAM    LP      ACDQ
     pat_id      DMUNS7       (ushort: 7)  <--- key
 (a) dummy       DMUNS1       (ushort: 1)
     oper1       DMOPID       (array [ 4 ] of char )
     oper2       DMOPID       (array [ 4 ] of char )
     oper3       DMOPID       (array [ 4 ] of char )
     oper4       DMOPID       (array [ 4 ] of char )
     oper5       DMOPID       (array [ 4 ] of char )
     oper6       DMOPID       (array [ 4 ] of char )
     oper7       DMOPID       (array [ 4 ] of char )
     oper8       DMOPID       (array [ 4 ] of char )
     oper9       DMOPID       (array [ 4 ] of char )
     oper10      DMOPID       (array [ 4 ] of char )
     oper11      DMOPID       (array [ 4 ] of char )
     oper12      DMOPID       (array [ 4 ] of char )
     oper13      DMOPID       (array [ 4 ] of char )
     oper14      DMOPID       (array [ 4 ] of char )
     oper15      DMOPID       (array [ 4 ] of char )
     oper16      DMOPID       (array [ 4 ] of char )
     oper17      DMOPID       (array [ 4 ] of char )
     oper18      DMOPID       (array [ 4 ] of char )
     oper19      DMOPID       (array [ 4 ] of char )
     oper20      DMOPID       (array [ 4 ] of char )
     oper21      DMOPID       (array [ 4 ] of char )
     oper22      DMOPID       (array [ 4 ] of char )
     oper23      DMOPID       (array [ 4 ] of char )
     oper24      DMOPID       (array [ 4 ] of char )
     oper25      DMOPID       (array [ 4 ] of char )
     oper26      DMOPID       (array [ 4 ] of char )
     oper27      DMOPID       (array [ 4 ] of char )
     oper28      DMOPID       (array [ 4 ] of char )
     oper29      DMOPID       (array [ 4 ] of char )
     oper30      DMOPID       (array [ 4 ] of char )
     oper31      DMOPID       (array [ 4 ] of char )
     oper32      DMOPID       (array [ 4 ] of char )
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oper33      DMOPID      (array [ 4 ] of char )
oper34      DMOPID      (array [ 4 ] of char )
oper35      DMOPID      (array [ 4 ] of char )
oper36      DMOPID      (array [ 4 ] of char )
oper37      DMOPID      (array [ 4 ] of char )
oper38      DMOPID      (array [ 4 ] of char )
oper39      DMOPID      (array [ 4 ] of char )
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oper83      DMOPID      (array [ 4 ] of char )
oper84      DMOPID      (array [ 4 ] of char )
oper85      DMOPID      (array [ 4 ] of char )
oper86      DMOPID      (array [ 4 ] of char )
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oper87      DMOPID       (array [ 4 ] of char )
oper88      DMOPID       (array [ 4 ] of char )
oper89      DMOPID       (array [ 4 ] of char )
oper90      DMOPID       (array [ 4 ] of char )
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oper138     DMOPID       (array [ 4 ] of char )
oper139     DMOPID       (array [ 4 ] of char )
oper140     DMOPID       (array [ 4 ] of char )
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oper141     DMOPID       (array [ 4 ] of char )
oper142     DMOPID       (array [ 4 ] of char )
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oper190     DMOPID       (array [ 4 ] of char )
oper191     DMOPID       (array [ 4 ] of char )
oper192     DMOPID       (array [ 4 ] of char )
oper193     DMOPID       (array [ 4 ] of char )
oper194     DMOPID       (array [ 4 ] of char )
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```
oper195     DMOPID       (array [ 4 ] of char )
oper196     DMOPID       (array [ 4 ] of char )
oper197     DMOPID       (array [ 4 ] of char )
oper198     DMOPID       (array [ 4 ] of char )
oper199     DMOPID       (array [ 4 ] of char )
oper200     DMOPID       (array [ 4 ] of char )
oper201     DMOPID       (array [ 4 ] of char )
oper202     DMOPID       (array [ 4 ] of char )
oper203     DMOPID       (array [ 4 ] of char )
oper204     DMOPID       (array [ 4 ] of char )
oper205     DMOPID       (array [ 4 ] of char )
oper206     DMOPID       (array [ 4 ] of char )
oper207     DMOPID       (array [ 4 ] of char )
oper208     DMOPID       (array [ 4 ] of char )
oper209     DMOPID       (array [ 4 ] of char )
oper210     DMOPID       (array [ 4 ] of char )
oper211     DMOPID       (array [ 4 ] of char )
oper212     DMOPID       (array [ 4 ] of char )
oper213     DMOPID       (array [ 4 ] of char )
oper214     DMOPID       (array [ 4 ] of char )
oper215     DMOPID       (array [ 4 ] of char )
oper216     DMOPID       (array [ 4 ] of char )
oper217     DMOPID       (array [ 4 ] of char )
oper218     DMOPID       (array [ 4 ] of char )
oper219     DMOPID       (array [ 4 ] of char )
oper220     DMOPID       (array [ 4 ] of char )
oper221     DMOPID       (array [ 4 ] of char )
oper222     DMOPID       (array [ 4 ] of char )
oper223     DMOPID       (array [ 4 ] of char )
oper224     DMOPID       (array [ 4 ] of char )
oper225     DMOPID       (array [ 4 ] of char )
oper226     DMOPID       (array [ 4 ] of char )
oper227     DMOPID       (array [ 4 ] of char )
oper228     DMOPID       (array [ 4 ] of char )
oper229     DMOPID       (array [ 4 ] of char )
oper230     DMOPID       (array [ 4 ] of char )
oper231     DMOPID       (array [ 4 ] of char )
oper232     DMOPID       (array [ 4 ] of char )
oper233     DMOPID       (array [ 4 ] of char )
oper234     DMOPID       (array [ 4 ] of char )
oper235     DMOPID       (array [ 4 ] of char )
oper236     DMOPID       (array [ 4 ] of char )
oper237     DMOPID       (array [ 4 ] of char )
oper238     DMOPID       (array [ 4 ] of char )
oper239     DMOPID       (array [ 4 ] of char )
oper240     DMOPID       (array [ 4 ] of char )
oper241     DMOPID       (array [ 4 ] of char )
oper242     DMOPID       (array [ 4 ] of char )
oper243     DMOPID       (array [ 4 ] of char )
oper244     DMOPID       (array [ 4 ] of char )
oper245     DMOPID       (array [ 4 ] of char )
oper246     DMOPID       (array [ 4 ] of char )
oper247     DMOPID       (array [ 4 ] of char )
oper248     DMOPID       (array [ 4 ] of char )
```

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```
     oper249     DMOPID       (array [ 4 ] of char )
     oper250     DMOPID       (array [ 4 ] of char )
         User, Compacted and Stored Tuple Layout    ID_OPER
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               | |                                             |
  0 |    pat_id     |a|                     oper1                   |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |               |                                               |
  4 |     oper1     |                     oper2                     |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |               |                                               |
  8 |     oper2     |                     oper3                     |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                    .
                                    .
                                    .
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |               |                                               |
992 |    oper248    |                    oper249                    |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |               |                                               |
996 |    oper249    |                    oper250                    |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |               |                                               |
1000 |    oper250    |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 1004 bytes )
domain alID_OPER   struct  (3 sub-attributes)
         pat_id      .252.fake    (ushort: 7)
 (a)     dummy       .253.fake    (ushort: 1)
         oper        .254.fake    (array [ 1000 ] of char )
         Structure Layout      alID_OPER
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               | |                                             |
  0 |    pat_id     |a|                      oper                   |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                               oper                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                               oper                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                    .
                                    .
                                    .
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
992 |                               oper                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
```

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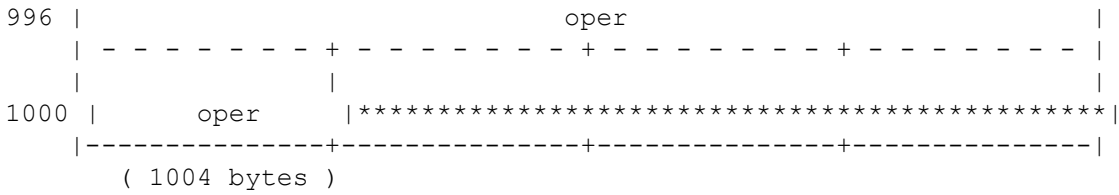


## 4. Population Rules for RLid_oper

**Relation Description**
ID operator.

Static relation defining mapping between aut_rec pattern IDs and operator IDs.

**Attribute: pat_id**

**Fullname:** Pattern ID

**Attribute Description** Integer pattern ID.

**Attribute: dummy**

**Fullname:** dummy

**Attribute Description** Dummy field used only for alignment of tuple.

**Attribute: oper[*]**

**Fullname:** Operator ID

**Attribute Description** The valid login IDs, which are four character strings, are composed only of alphanumeric characters 'A'-'Z', 'a'-'z', and '0'-'9' left-justified with trailing blanks. All ids must be padded to SZOPID chars

Note that login 0001 is different than login 1bbb, where b is a blank. The ids from 9000 to 9999 are NOT ALLOWED.

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# ID_OPTS

## 1. Description

Individualized dialing plan feature definition options and defaults.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 500 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| l1 length of subkey1 | 10 |
| p1 position of subkey1 | 6 |
| ks key store | DBNO |
| ignore key bits | 0-5 |

## 3. Field Layout

```
ID_OPTS     relid = 1255  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     feat_id     DMMCC_FID    (ushort)  <--- key, not stored
     icrsfg      DMGRUPNM     (ushort: 11)
     actvn       DMMC_ACTYP   (enum: 3)
 (a) dctvn       DMMC_DCTYP   (enum: 2)
     dpat_caty   DMIDDP_NO    (ushort: 6)
 (b) stop_chrg   DMIDP_STCH   (enum: 2)
 (c) ch_act      DMBOOL       (enum: 1)
 (d) ch_gp_car   DMBOOL       (enum: 1)
 (e) ch_pic2     DMBOOL       (enum: 1)
 (f) ch_pic3     DMBOOL       (enum: 1)
 (g) ch_pic4     DMBOOL       (enum: 1)
 (h) ffcf1       DMBOOL       (enum: 1)
 (i) ffcf2       DMBOOL       (enum: 1)
     idp_name    DMFACNAME    (array [ 8 ] of char )
         User and Compacted Tuple Layout    ID_OPTS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             feat_id           |*******************************|
    |---------------+---------------+---------------+---------------|
    |                       |     |   |           |   | | | | | | | |
  4 |         icrsfg        |actvn| a | dpat_caty | b |c|d|e|f|g|h|i|*|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             idp_name                          |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 12 |                             idp_name                          |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
     icrsfg      DMGRUPNM     (ushort: 11)
     actvn       DMMC_ACTYP   (enum: 3)
 (a) dctvn       DMMC_DCTYP   (enum: 2)
```

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```
    dpat_caty   DMIDDP_NO    (ushort: 6)
(b) stop_chrg   DMIDP_STCH   (enum: 2)
(c) ch_act      DMBOOL       (enum: 1)
(d) ch_gp_car   DMBOOL       (enum: 1)
(e) ch_pic2     DMBOOL       (enum: 1)
(f) ch_pic3     DMBOOL       (enum: 1)
(g) ch_pic4     DMBOOL       (enum: 1)
(h) ffcf1       DMBOOL       (enum: 1)
(i) ffcf2       DMBOOL       (enum: 1)
    idp_name    DMFACNAME    (array [ 8 ] of char )
          Stored Tuple Layout      ID_OPTS
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                       |     |   |           |   | | | | | | | | |
 0 |        icrsfg         |actvn| a | dpat_caty | b |c|d|e|f|g|h|i|*|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 4 |                             idp_name                          |
   | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 8 |                             idp_name                          |
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population Rules for RLid_opts

**Relation Description**
Individualized dialing plan feature options.

This relation is used to set the feature options for an individualized dialing plan (IDP) feature.

**Attribute: feat_id**

**Fullname:** Feature Identification

**Attribute Description** Identifies the feature constructed feature id.

**Attribute: actvn**

**Fullname:** Activation

**Attribute Description** Indicates the method of activating BRCS features. The two attributes (actions), activation and deactivation together determine the customer options for the feature.

**Attribute: dctvn**

**Fullname:** Deactivation

**Attribute Description** Indicates the method of deactivating the BRCS features. The two attributes (actions), activation and deactivation together determine the customer options for the feature.

**Attribute: ch_act**

**Fullname:** Change Alternate Code Treatment

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**Attribute Description** Change alternate code treatment. DBYES indicates changes will be allowed to the alternate code treatment. If ch_act = DBYES, then two tuples should exist in RLidp_dtre or RLidp_cnfl with action set to ACN_ACTON and ACN_ACTOFF for the respective dial codes. (This rule is not mandatory, but recommended.)

**Attribute: ch_gp_car**

**Fullname:** Change group carrier

**Attribute Description** Change group carrier. DBYES indicates the group carrier can be changed. If ch_gp_car = DBYES, then a tuple in RLidp_dtre or RLidp_cnfl should exist with action set to ACN_GRPCARCH for the dial code to change group carrier.

**Attribute: ch_pic2**

**Fullname:** Change Primary Intra-LATA-Toll Group Carrier ID.

**Attribute Description** Is user allowed to change Intra-LATA-Toll Group Carrier? If DBYES, a tuple may exist in RLidp_dtre or Rlidp_cnfl with action set to ACN_PIC2CH for the dial code to change group carrier.

**Attribute: ch_pic3**

**Fullname:** Change Primary International Group Carrier ID.

**Attribute Description** Is user allowed to change international group carrier? If DBYES, a tuple may exist in RLidp_dtre or Rlidp_cnfl with action set to ACN_PIC3CH for the dial code to change group carrier.

**Attribute: ch_pic4**

**Fullname:** Change primary intra-LATA-local group carrier ID.

**Attribute Description** Is user allowed to change intra-LATA-local group carrier? If DBYES, a tuple may exist in RLidp_dtre or Rlidp_cnfl with action set to ACN_PIC4CH for the dial code to change group carrier.

**Attribute: stop_chrg**

**Fullname:** Stop charges

**Attribute Description** Indicates the types of calls which are not to be charged.

**Attribute: idp_name**

**Fullname:** Default Name of Individualized Dialing Plan

**Attribute Description** Default individualized dialing plan group ID.

**Attribute: dpat_caty**

**Fullname:** Default dialing plan access treatment category.

**Attribute Description** Indicates the category of dialing plan access treatment assigned to the user. This is used along with the DPAT array in dial tree to determine a treatment.

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**Attribute: icrsfg**

**Fullname:** Intercom calling restriction simulate facility group number

**Attribute Description** Intercom calling restriction simulated facility group number assigned to the subscriber.

**Attribute: ffcf1**

**Fullname:** future field 1

**Attribute Description** future field feature use.

**Attribute: ffcf2**

**Fullname:** future field 2.

**Attribute Description** future field feature use.

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# ID_PORT

## 1. Description

Individualized dialing plan feature per-port data. This relation is common for lines and trunks.

(defined (PSM) && (AVSMLINES + AVSMTRUNKS) > 65531)
syntax - The number of UNITTYPs needed has exceeded the maximum engineered.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65531 |
| expected number of tuples | 128 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| density | 12 |
| l1 length of subkey 1 | 2 |
| p1 position of subkey 1 | 16 |
| l2 length of subkey 2 | 16 |
| p2 position of subkey 2 | 0 |
| ks key store | AUTO |

## 3. Field Layout

```
ID_PORT     relid = 1256  DBSTATIC   DBACC_CIND  DBPRAM    LPFPFG  RCMAP
     lport       DMLPORT      (ushort: 16)  <--- key
 (a) lpt_type    DMLPT_TYPE   (enum: 2)  <--- key
     icrsfg      DMGRUPNM     (ushort: 11)
 (b) ffcf1       DMBOOL       (enum: 1)
 (c) ffcf2       DMBOOL       (enum: 1)
     idp_gpid    DMIDP_GPID   (ushort)
     dpat_caty   DMIDDP_NO    (ushort: 6)
         User, Compacted and Stored Tuple Layout    ID_PORT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |   |                       | | | |
  0 |             lport              | a |        icrsfg         |b|c|*|
    |---------------+---------------+---------------+---------------|
    |                                |           |                   |
  4 |            idp_gpid            | dpat_caty |*******************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLid_port

**Relation Description**
Individualized Dialing Plan feature per-port data.

This relation is common for lines and trunks. In 5E6 and later generics, this information is found in RLid_port. Previously, the RLidp_port relation contained the information for individualized dialing plan and for speed calling. Speed Calling now has its own relation, RLsc_port.

**Attribute: lport**

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**Fullname:** Logical Port

**Attribute Description** Logical port of the user being assigned the BRCS features. For further clarification of dependencies, see the Checks Section.

**Attribute: lpt_type**

**Fullname:** Logical Port Type of User

**Attribute Description**

Logical port of the user being assigned the BRCS features. There are 4 allowed values for this attribute:

```
LPT_ISDN     for ISDN and shared analog users
LPT_BFG      for BFG tuples,
LPT_PKT      for ODB and PPD packet services,
LPT_OTHER    for unshared analog lines and BRCS and trunks.
```

For further clarification of dependencies, see Checks Section.

**Attribute: idp_gpid**

**Fullname:** Individualized Dialing Plan Group Identification

**Attribute Description** Indicates the individualized dialing plan group. A value of zero indicates that a group dialing plan is not assigned, otherwise the id number of the group dialing plan is assigned. Zero is used as a temporary value, until a dialing plan is assigned. A value of zero would be typical in a growth situation, but would not be expected under normal conditions.

**Attribute: dpat_caty**

**Fullname:** Dialing Plan Access Treatment Category

**Attribute Description** Category of Dialing Plan Access Treatment assigned to the subscriber. DPAT_CATY is used with the DPAT array in the dial tree to determine a treatment.

**Attribute: icrsfg**

**Fullname:** Intercom Calling Restriction Simulated Facility Group Number

**Attribute Description** Intercom Calling Restriction simulated facility group number assigned to the subscriber.

**Attribute: ffcf1**

**Fullname:** Future field 1

**Attribute Description** future field feature use.

**Attribute: ffcf2**

**Fullname:** Future field 2

**Attribute Description** future field feature use.

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# ID_ST

## 1. Description

Static relation defining the mapping of pattern IDs to serving teams for auto reconfig.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 84 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | ACDQ |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |
| permutation indicator | un_perm |

## 3. Field Layout

```
ID_ST       relid = 768   DBSTATIC   DBACC_CIND  DBPRAM    LP      ACDQ
     pat_id       DMUNS7       (ushort: 7)  <--- key
 (a) dummy        DMUNS1       (ushort: 1)
     srvtm1       DMUNS8       (ushort: 8)
     srvtm2       DMUNS8       (ushort: 8)
     srvtm3       DMUNS8       (ushort: 8)
     srvtm4       DMUNS8       (ushort: 8)
     srvtm5       DMUNS8       (ushort: 8)
     srvtm6       DMUNS8       (ushort: 8)
     srvtm7       DMUNS8       (ushort: 8)
     srvtm8       DMUNS8       (ushort: 8)
     srvtm9       DMUNS8       (ushort: 8)
     srvtm10      DMUNS8       (ushort: 8)
     srvtm11      DMUNS8       (ushort: 8)
     srvtm12      DMUNS8       (ushort: 8)
     srvtm13      DMUNS8       (ushort: 8)
     srvtm14      DMUNS8       (ushort: 8)
     srvtm15      DMUNS8       (ushort: 8)
     srvtm16      DMUNS8       (ushort: 8)
     srvtm17      DMUNS8       (ushort: 8)
     srvtm18      DMUNS8       (ushort: 8)
     srvtm19      DMUNS8       (ushort: 8)
     srvtm20      DMUNS8       (ushort: 8)
     srvtm21      DMUNS8       (ushort: 8)
     srvtm22      DMUNS8       (ushort: 8)
     srvtm23      DMUNS8       (ushort: 8)
     srvtm24      DMUNS8       (ushort: 8)
     srvtm25      DMUNS8       (ushort: 8)
     srvtm26      DMUNS8       (ushort: 8)
     srvtm27      DMUNS8       (ushort: 8)
     srvtm28      DMUNS8       (ushort: 8)
     srvtm29      DMUNS8       (ushort: 8)
     srvtm30      DMUNS8       (ushort: 8)
     srvtm31      DMUNS8       (ushort: 8)
     srvtm32      DMUNS8       (ushort: 8)
```

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```
srvtm33     DMUNS8       (ushort: 8)
srvtm34     DMUNS8       (ushort: 8)
srvtm35     DMUNS8       (ushort: 8)
srvtm36     DMUNS8       (ushort: 8)
srvtm37     DMUNS8       (ushort: 8)
srvtm38     DMUNS8       (ushort: 8)
srvtm39     DMUNS8       (ushort: 8)
srvtm40     DMUNS8       (ushort: 8)
srvtm41     DMUNS8       (ushort: 8)
srvtm42     DMUNS8       (ushort: 8)
srvtm43     DMUNS8       (ushort: 8)
srvtm44     DMUNS8       (ushort: 8)
srvtm45     DMUNS8       (ushort: 8)
srvtm46     DMUNS8       (ushort: 8)
srvtm47     DMUNS8       (ushort: 8)
srvtm48     DMUNS8       (ushort: 8)
srvtm49     DMUNS8       (ushort: 8)
srvtm50     DMUNS8       (ushort: 8)
srvtm51     DMUNS8       (ushort: 8)
srvtm52     DMUNS8       (ushort: 8)
srvtm53     DMUNS8       (ushort: 8)
srvtm54     DMUNS8       (ushort: 8)
srvtm55     DMUNS8       (ushort: 8)
srvtm56     DMUNS8       (ushort: 8)
srvtm57     DMUNS8       (ushort: 8)
srvtm58     DMUNS8       (ushort: 8)
srvtm59     DMUNS8       (ushort: 8)
srvtm60     DMUNS8       (ushort: 8)
srvtm61     DMUNS8       (ushort: 8)
srvtm62     DMUNS8       (ushort: 8)
srvtm63     DMUNS8       (ushort: 8)
srvtm64     DMUNS8       (ushort: 8)
srvtm65     DMUNS8       (ushort: 8)
srvtm66     DMUNS8       (ushort: 8)
srvtm67     DMUNS8       (ushort: 8)
srvtm68     DMUNS8       (ushort: 8)
srvtm69     DMUNS8       (ushort: 8)
srvtm70     DMUNS8       (ushort: 8)
srvtm71     DMUNS8       (ushort: 8)
srvtm72     DMUNS8       (ushort: 8)
srvtm73     DMUNS8       (ushort: 8)
srvtm74     DMUNS8       (ushort: 8)
srvtm75     DMUNS8       (ushort: 8)
srvtm76     DMUNS8       (ushort: 8)
srvtm77     DMUNS8       (ushort: 8)
srvtm78     DMUNS8       (ushort: 8)
srvtm79     DMUNS8       (ushort: 8)
srvtm80     DMUNS8       (ushort: 8)
srvtm81     DMUNS8       (ushort: 8)
srvtm82     DMUNS8       (ushort: 8)
srvtm83     DMUNS8       (ushort: 8)
srvtm84     DMUNS8       (ushort: 8)
srvtm85     DMUNS8       (ushort: 8)
srvtm86     DMUNS8       (ushort: 8)
```

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```
srvtm87     DMUNS8       (ushort: 8)
srvtm88     DMUNS8       (ushort: 8)
srvtm89     DMUNS8       (ushort: 8)
srvtm90     DMUNS8       (ushort: 8)
srvtm91     DMUNS8       (ushort: 8)
srvtm92     DMUNS8       (ushort: 8)
srvtm93     DMUNS8       (ushort: 8)
srvtm94     DMUNS8       (ushort: 8)
srvtm95     DMUNS8       (ushort: 8)
srvtm96     DMUNS8       (ushort: 8)
srvtm97     DMUNS8       (ushort: 8)
srvtm98     DMUNS8       (ushort: 8)
srvtm99     DMUNS8       (ushort: 8)
srvtm100    DMUNS8       (ushort: 8)
srvtm101    DMUNS8       (ushort: 8)
srvtm102    DMUNS8       (ushort: 8)
srvtm103    DMUNS8       (ushort: 8)
srvtm104    DMUNS8       (ushort: 8)
srvtm105    DMUNS8       (ushort: 8)
srvtm106    DMUNS8       (ushort: 8)
srvtm107    DMUNS8       (ushort: 8)
srvtm108    DMUNS8       (ushort: 8)
srvtm109    DMUNS8       (ushort: 8)
srvtm110    DMUNS8       (ushort: 8)
srvtm111    DMUNS8       (ushort: 8)
srvtm112    DMUNS8       (ushort: 8)
srvtm113    DMUNS8       (ushort: 8)
srvtm114    DMUNS8       (ushort: 8)
srvtm115    DMUNS8       (ushort: 8)
srvtm116    DMUNS8       (ushort: 8)
srvtm117    DMUNS8       (ushort: 8)
srvtm118    DMUNS8       (ushort: 8)
srvtm119    DMUNS8       (ushort: 8)
srvtm120    DMUNS8       (ushort: 8)
srvtm121    DMUNS8       (ushort: 8)
srvtm122    DMUNS8       (ushort: 8)
srvtm123    DMUNS8       (ushort: 8)
srvtm124    DMUNS8       (ushort: 8)
srvtm125    DMUNS8       (ushort: 8)
srvtm126    DMUNS8       (ushort: 8)
srvtm127    DMUNS8       (ushort: 8)
srvtm128    DMUNS8       (ushort: 8)
srvtm129    DMUNS8       (ushort: 8)
srvtm130    DMUNS8       (ushort: 8)
srvtm131    DMUNS8       (ushort: 8)
srvtm132    DMUNS8       (ushort: 8)
srvtm133    DMUNS8       (ushort: 8)
srvtm134    DMUNS8       (ushort: 8)
srvtm135    DMUNS8       (ushort: 8)
srvtm136    DMUNS8       (ushort: 8)
srvtm137    DMUNS8       (ushort: 8)
srvtm138    DMUNS8       (ushort: 8)
srvtm139    DMUNS8       (ushort: 8)
srvtm140    DMUNS8       (ushort: 8)
```

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```
srvtm141    DMUNS8       (ushort: 8)
srvtm142    DMUNS8       (ushort: 8)
srvtm143    DMUNS8       (ushort: 8)
srvtm144    DMUNS8       (ushort: 8)
srvtm145    DMUNS8       (ushort: 8)
srvtm146    DMUNS8       (ushort: 8)
srvtm147    DMUNS8       (ushort: 8)
srvtm148    DMUNS8       (ushort: 8)
srvtm149    DMUNS8       (ushort: 8)
srvtm150    DMUNS8       (ushort: 8)
srvtm151    DMUNS8       (ushort: 8)
srvtm152    DMUNS8       (ushort: 8)
srvtm153    DMUNS8       (ushort: 8)
srvtm154    DMUNS8       (ushort: 8)
srvtm155    DMUNS8       (ushort: 8)
srvtm156    DMUNS8       (ushort: 8)
srvtm157    DMUNS8       (ushort: 8)
srvtm158    DMUNS8       (ushort: 8)
srvtm159    DMUNS8       (ushort: 8)
srvtm160    DMUNS8       (ushort: 8)
srvtm161    DMUNS8       (ushort: 8)
srvtm162    DMUNS8       (ushort: 8)
srvtm163    DMUNS8       (ushort: 8)
srvtm164    DMUNS8       (ushort: 8)
srvtm165    DMUNS8       (ushort: 8)
srvtm166    DMUNS8       (ushort: 8)
srvtm167    DMUNS8       (ushort: 8)
srvtm168    DMUNS8       (ushort: 8)
srvtm169    DMUNS8       (ushort: 8)
srvtm170    DMUNS8       (ushort: 8)
srvtm171    DMUNS8       (ushort: 8)
srvtm172    DMUNS8       (ushort: 8)
srvtm173    DMUNS8       (ushort: 8)
srvtm174    DMUNS8       (ushort: 8)
srvtm175    DMUNS8       (ushort: 8)
srvtm176    DMUNS8       (ushort: 8)
srvtm177    DMUNS8       (ushort: 8)
srvtm178    DMUNS8       (ushort: 8)
srvtm179    DMUNS8       (ushort: 8)
srvtm180    DMUNS8       (ushort: 8)
srvtm181    DMUNS8       (ushort: 8)
srvtm182    DMUNS8       (ushort: 8)
srvtm183    DMUNS8       (ushort: 8)
srvtm184    DMUNS8       (ushort: 8)
srvtm185    DMUNS8       (ushort: 8)
srvtm186    DMUNS8       (ushort: 8)
srvtm187    DMUNS8       (ushort: 8)
srvtm188    DMUNS8       (ushort: 8)
srvtm189    DMUNS8       (ushort: 8)
srvtm190    DMUNS8       (ushort: 8)
srvtm191    DMUNS8       (ushort: 8)
srvtm192    DMUNS8       (ushort: 8)
srvtm193    DMUNS8       (ushort: 8)
srvtm194    DMUNS8       (ushort: 8)
```

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```
srvtm195    DMUNS8       (ushort: 8)
srvtm196    DMUNS8       (ushort: 8)
srvtm197    DMUNS8       (ushort: 8)
srvtm198    DMUNS8       (ushort: 8)
srvtm199    DMUNS8       (ushort: 8)
srvtm200    DMUNS8       (ushort: 8)
srvtm201    DMUNS8       (ushort: 8)
srvtm202    DMUNS8       (ushort: 8)
srvtm203    DMUNS8       (ushort: 8)
srvtm204    DMUNS8       (ushort: 8)
srvtm205    DMUNS8       (ushort: 8)
srvtm206    DMUNS8       (ushort: 8)
srvtm207    DMUNS8       (ushort: 8)
srvtm208    DMUNS8       (ushort: 8)
srvtm209    DMUNS8       (ushort: 8)
srvtm210    DMUNS8       (ushort: 8)
srvtm211    DMUNS8       (ushort: 8)
srvtm212    DMUNS8       (ushort: 8)
srvtm213    DMUNS8       (ushort: 8)
srvtm214    DMUNS8       (ushort: 8)
srvtm215    DMUNS8       (ushort: 8)
srvtm216    DMUNS8       (ushort: 8)
srvtm217    DMUNS8       (ushort: 8)
srvtm218    DMUNS8       (ushort: 8)
srvtm219    DMUNS8       (ushort: 8)
srvtm220    DMUNS8       (ushort: 8)
srvtm221    DMUNS8       (ushort: 8)
srvtm222    DMUNS8       (ushort: 8)
srvtm223    DMUNS8       (ushort: 8)
srvtm224    DMUNS8       (ushort: 8)
srvtm225    DMUNS8       (ushort: 8)
srvtm226    DMUNS8       (ushort: 8)
srvtm227    DMUNS8       (ushort: 8)
srvtm228    DMUNS8       (ushort: 8)
srvtm229    DMUNS8       (ushort: 8)
srvtm230    DMUNS8       (ushort: 8)
srvtm231    DMUNS8       (ushort: 8)
srvtm232    DMUNS8       (ushort: 8)
srvtm233    DMUNS8       (ushort: 8)
srvtm234    DMUNS8       (ushort: 8)
srvtm235    DMUNS8       (ushort: 8)
srvtm236    DMUNS8       (ushort: 8)
srvtm237    DMUNS8       (ushort: 8)
srvtm238    DMUNS8       (ushort: 8)
srvtm239    DMUNS8       (ushort: 8)
srvtm240    DMUNS8       (ushort: 8)
srvtm241    DMUNS8       (ushort: 8)
srvtm242    DMUNS8       (ushort: 8)
srvtm243    DMUNS8       (ushort: 8)
srvtm244    DMUNS8       (ushort: 8)
srvtm245    DMUNS8       (ushort: 8)
srvtm246    DMUNS8       (ushort: 8)
srvtm247    DMUNS8       (ushort: 8)
srvtm248    DMUNS8       (ushort: 8)
```

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```
    srvtm249    DMUNS8       (ushort: 8)
    srvtm250    DMUNS8       (ushort: 8)
        User, Compacted and Stored Tuple Layout  ID_ST
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               | |               |               |               |
 0 |    pat_id     |a|     srvtm1    |     srvtm2    |     srvtm3    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 4 |     srvtm4    |     srvtm5    |     srvtm6    |     srvtm7    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 8 |     srvtm8    |     srvtm9    |    srvtm10    |    srvtm11    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
12 |    srvtm12    |    srvtm13    |    srvtm14    |    srvtm15    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
16 |    srvtm16    |    srvtm17    |    srvtm18    |    srvtm19    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
20 |    srvtm20    |    srvtm21    |    srvtm22    |    srvtm23    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
24 |    srvtm24    |    srvtm25    |    srvtm26    |    srvtm27    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
28 |    srvtm28    |    srvtm29    |    srvtm30    |    srvtm31    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
32 |    srvtm32    |    srvtm33    |    srvtm34    |    srvtm35    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
36 |    srvtm36    |    srvtm37    |    srvtm38    |    srvtm39    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
40 |    srvtm40    |    srvtm41    |    srvtm42    |    srvtm43    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
44 |    srvtm44    |    srvtm45    |    srvtm46    |    srvtm47    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
48 |    srvtm48    |    srvtm49    |    srvtm50    |    srvtm51    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
52 |    srvtm52    |    srvtm53    |    srvtm54    |    srvtm55    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
56 |    srvtm56    |    srvtm57    |    srvtm58    |    srvtm59    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
60 |    srvtm60    |    srvtm61    |    srvtm62    |    srvtm63    |
   |---------------+---------------+---------------+---------------|
```

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| | | | | |
|---|---|---|---|---|
| 64 | srvtm64 | srvtm65 | srvtm66 | srvtm67 |
| 68 | srvtm68 | srvtm69 | srvtm70 | srvtm71 |
| 72 | srvtm72 | srvtm73 | srvtm74 | srvtm75 |
| 76 | srvtm76 | srvtm77 | srvtm78 | srvtm79 |
| 80 | srvtm80 | srvtm81 | srvtm82 | srvtm83 |
| 84 | srvtm84 | srvtm85 | srvtm86 | srvtm87 |
| 88 | srvtm88 | srvtm89 | srvtm90 | srvtm91 |
| 92 | srvtm92 | srvtm93 | srvtm94 | srvtm95 |
| 96 | srvtm96 | srvtm97 | srvtm98 | srvtm99 |
| 100 | srvtm100 | srvtm101 | srvtm102 | srvtm103 |
| 104 | srvtm104 | srvtm105 | srvtm106 | srvtm107 |
| 108 | srvtm108 | srvtm109 | srvtm110 | srvtm111 |
| 112 | srvtm112 | srvtm113 | srvtm114 | srvtm115 |
| 116 | srvtm116 | srvtm117 | srvtm118 | srvtm119 |
| 120 | srvtm120 | srvtm121 | srvtm122 | srvtm123 |
| 124 | srvtm124 | srvtm125 | srvtm126 | srvtm127 |
| 128 | srvtm128 | srvtm129 | srvtm130 | srvtm131 |
| 132 | srvtm132 | srvtm133 | srvtm134 | srvtm135 |

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| | | | | |
|---|---|---|---|---|
| | | | | |
| 136 | srvtm136 | srvtm137 | srvtm138 | srvtm139 |
| | | | | |
| 140 | srvtm140 | srvtm141 | srvtm142 | srvtm143 |
| | | | | |
| 144 | srvtm144 | srvtm145 | srvtm146 | srvtm147 |
| | | | | |
| 148 | srvtm148 | srvtm149 | srvtm150 | srvtm151 |
| | | | | |
| 152 | srvtm152 | srvtm153 | srvtm154 | srvtm155 |
| | | | | |
| 156 | srvtm156 | srvtm157 | srvtm158 | srvtm159 |
| | | | | |
| 160 | srvtm160 | srvtm161 | srvtm162 | srvtm163 |
| | | | | |
| 164 | srvtm164 | srvtm165 | srvtm166 | srvtm167 |
| | | | | |
| 168 | srvtm168 | srvtm169 | srvtm170 | srvtm171 |
| | | | | |
| 172 | srvtm172 | srvtm173 | srvtm174 | srvtm175 |
| | | | | |
| 176 | srvtm176 | srvtm177 | srvtm178 | srvtm179 |
| | | | | |
| 180 | srvtm180 | srvtm181 | srvtm182 | srvtm183 |
| | | | | |
| 184 | srvtm184 | srvtm185 | srvtm186 | srvtm187 |
| | | | | |
| 188 | srvtm188 | srvtm189 | srvtm190 | srvtm191 |
| | | | | |
| 192 | srvtm192 | srvtm193 | srvtm194 | srvtm195 |
| | | | | |
| 196 | srvtm196 | srvtm197 | srvtm198 | srvtm199 |
| | | | | |
| 200 | srvtm200 | srvtm201 | srvtm202 | srvtm203 |
| | | | | |
| 204 | srvtm204 | srvtm205 | srvtm206 | srvtm207 |

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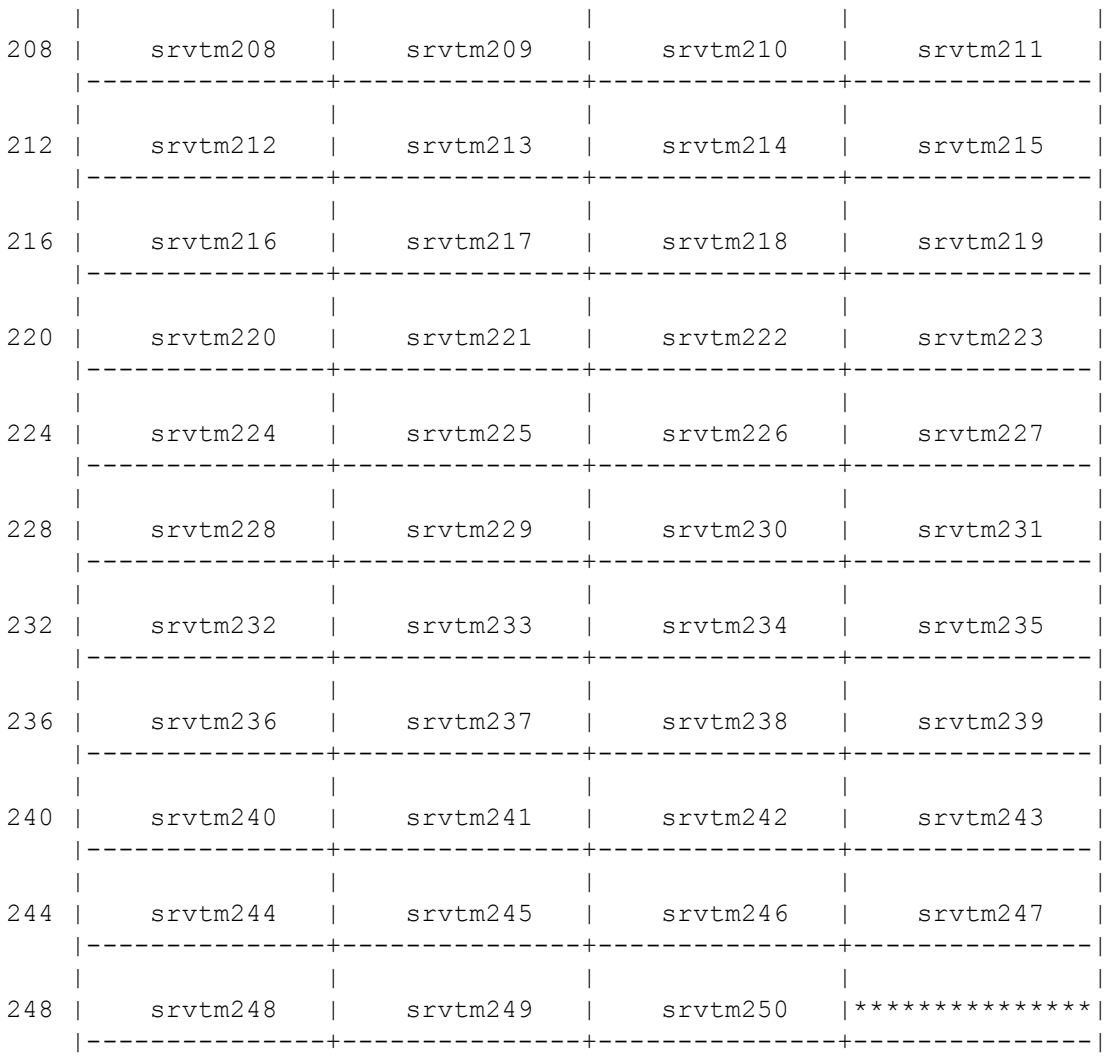
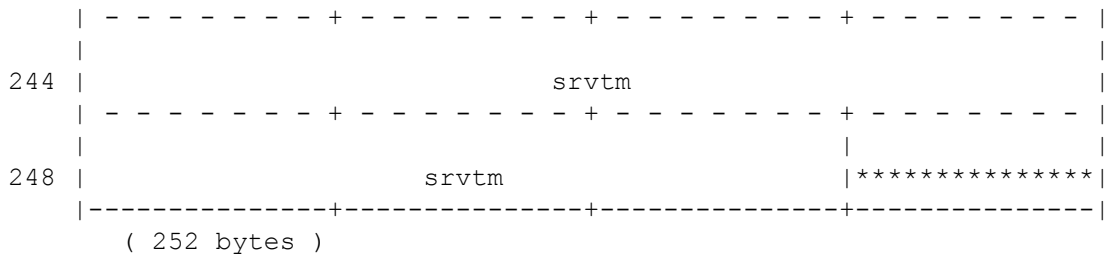

208 srvtm208 srvtm209 srvtm210 srvtm211
212 srvtm212 srvtm213 srvtm214 srvtm215
216 srvtm216 srvtm217 srvtm218 srvtm219
220 srvtm220 srvtm221 srvtm222 srvtm223
224 srvtm224 srvtm225 srvtm226 srvtm227
228 srvtm228 srvtm229 srvtm230 srvtm231
232 srvtm232 srvtm233 srvtm234 srvtm235
236 srvtm236 srvtm237 srvtm238 srvtm239
240 srvtm240 srvtm241 srvtm242 srvtm243
244 srvtm244 srvtm245 srvtm246 srvtm247
248 srvtm248 srvtm249 srvtm250
( 252 bytes )
domain alID_ST struct (3 sub-attributes)
pat_id .252.fake (ushort: 7)
(a) dummy .253.fake (ushort: 1)
srvtm .254.fake (array [ 250 ] of unsigned char )
Structure Layout alID_ST
3 3 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0
1 0 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0
0 pat_id a srvtm
4 srvtm
8 srvtm




## 4. Population Rules for RLid_st

**Relation Description**
ID serving teams.

Static relation defining the mapping of pattern IDs to serving teams for auto reconfig. Estimated average number of tuples: 16

**Attribute: pat_id**

**Fullname:** Integer Pattern ID

**Attribute Description** Integer pattern ID.

**Attribute: dummy**

**Fullname:** dummy

**Attribute Description** Dummy field used only for alignment of tuple.

**Attribute: srvtm[*]**

**Fullname:** Serving team ID

**Attribute Description** Serving team ID.

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# ID2NAME

## 1. Description

This reation maps from an internal id to an external feature name. This relation is the "inverse" of RLname2id.G.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3072 |
| expected tuples in relation | 300 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
ID2NAME     relid = 2748  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     id          DMFACID      (ushort)     <--- key
     class       DMFACLASS    (enum: 5)     <--- key
 (a) subclass    DMFACSUBCL   (enum: 4)     <--- key
     name        DMFNAME      (array [ 16 ] of char )
         User, Compacted and Stored Tuple Layout    ID2NAME
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |         |     |       |       |
  0 |               id              |  class  |*****|   a   |*******|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             name                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             name                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                             name                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                             name                              |
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population Rules for RLid2name

**Relation Description**
identification(id) to name translation

This relation translates a ID to the 16 character ASCII name as shown on the view screen. It is basically the inverse of the RLname2id relation. "There is a tuple in this relation for every tuple in RLname2id. Each change to RLname2id must result in a corresponding change to RLid2name, except for use counts in RLname2id. The inverse is also true. Each change to RLid2name must result in a change to RLname2id."

**Attribute: id**

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**Fullname:** assignment and construction identification

**Attribute Description** This is the internal identifier associated with the external name. This is a short with a range from 0 to 65535. For most names, this is treated as a simple number.

**Attribute: class**

**Fullname:** assignment and construction class

**Attribute Description** Externally known names are divided into a number of classes. This is an enumerated type identifying the class associated with the external name. This attribute allows each class to have its own unique name space.

**Attribute: subclass**

**Fullname:** assignment and construction subclass

**Attribute Description** Each class of names is divided into one or more subclasses. The subclasses of a given class all share the same name space, since subclass is not a key to RLid2name.

**Attribute: name**

**Fullname:** Name (in ASCII)

**Attribute Description** This is the externally known ASCII name. It can be from 1 to 16 characters long. If it is less than 16 characters long, the field is padded with binary zeros ('\0'). Names must be unique within a given class. Names from different classes need not be unique.

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# IDAM

## 1. Description

INSEP DESEP Addressing Matrix (IDAM).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
IDAM        relid = 235   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     insep       DMINSEP      (ushort: 8)  <--- key, not stored
     desep       DMDESEP      (ushort: 8)  <--- key, not stored
     cellgrp     DMCELLGRP    (ushort: 11)
         User and Compacted Tuple Layout   IDAM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |     insep     |     desep     |*******************************|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
  4 |       cellgrp         |***************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     cellgrp     DMCELLGRP    (ushort: 11)
           Stored Tuple Layout     IDAM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
  0 |       cellgrp         |***************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLidam

**Relation Description**
INSEP DESEP Addressing Matrix.

This relation will map INSEPs and DESEPs to specific cell groups for the Division of Revenue report.

**Attribute: insep**

**Fullname:** Incoming/originating separations class

**Attribute Description** Incoming/originating separations class used as an index into the cell grouping matrix.

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**Attribute: desep**

**Fullname:** Destination separations class

**Attribute Description** Destination separations class used as an index into the cell grouping matrix.

**Attribute: cellgrp**

**Fullname:** Cell grouping matrix

**Attribute Description** List of counters for the Division of Revenue report with each cell grouping containing a peg count and a usage count.

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# IDDD_R

## 1. Description

This relation contains the root storage relation for RC_IDDD.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 64000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTORAGE |
| foldtype | DBGC31 |

## 3. Field Layout

```
IDDD_R      relid = 1690  DBSTORAGE  DBACC_DHSH  DBPRAM    LP      RCDATA


    ldit        DMSHORT      (short)   <--- key
    remarks     DMGK16       (ulong: 16)
    prfix       DMDIG_BUFF   (array [ 3 ] of char )    <--- key
    rcdigs      DMDIG_BUFF   (array [ 3 ] of char )    <--- key
    city_digs   DMCTXT7      (array [ 7 ] of char )    <--- key, compacted
           User Tuple Layout    IDDD_R
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |              ldit             |            remarks            |
   |---------------+---------------+---------------+---------------|
   |                                                 |               |
 4 |                      prfix                      |     rcdigs    |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
 8 |             rcdigs            |           city_digs           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
12 |                           city_digs                           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |               |                                               |
16 |   city_digs   |***********************************************|
   |---------------+---------------+---------------+---------------|
      ( 20 bytes )


    ldit        DMSHORT      (short)   <--- key
    remarks     DMGK16       (ulong: 16)
    prfix       DMDIG_BUFF   (array [ 3 ] of char )    <--- key
    rcdigs      DMDIG_BUFF   (array [ 3 ] of char )    <--- key
    city_digs   DMKBCD7      (array [ 4 ] of char )    <--- key, compacted
         Compacted Tuple Layout     IDDD_R
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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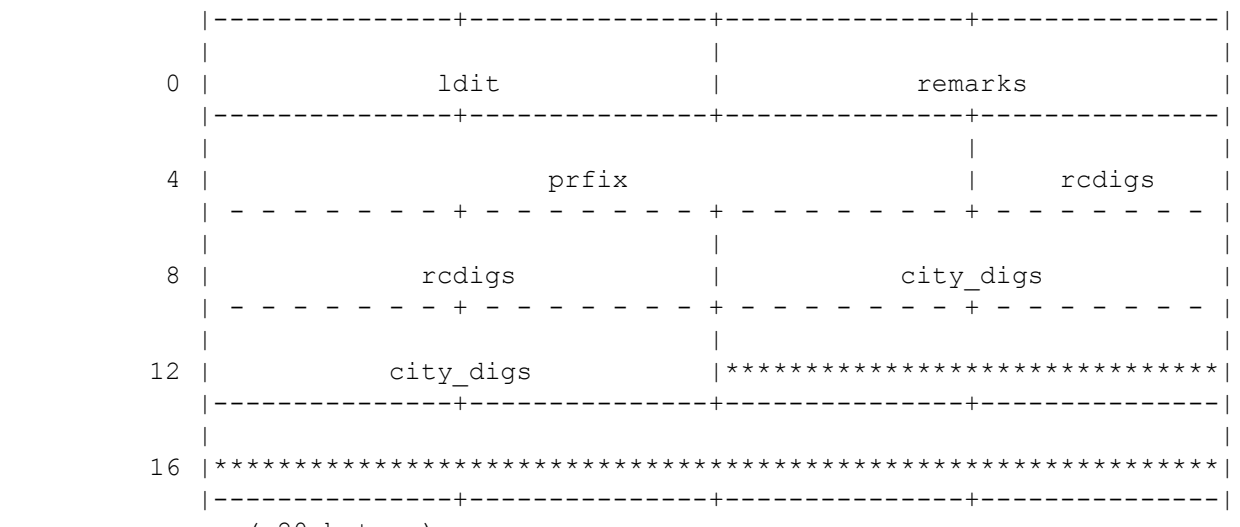


```
ldit        DMSHORT      (short)   <--- key
remarks     DMGK16       (ulong: 16)
prfix       DMDIG_BUFF   (array [ 3 ] of char )    <--- key
rcdigs      DMDIG_BUFF   (array [ 3 ] of char )    <--- key
city_digs   DMKBCD7      (array [ 4 ] of char )    <--- key, compacted
      Stored Tuple Layout   IDDD_R
|3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
|---------------+---------------+---------------+---------------|
|                               |                               |
 0 |              ldit             |            remarks            |
|---------------+---------------+---------------+---------------|
|                                               |               |
 4 |                     prfix                     |     rcdigs    |
| - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
|                               |                               |
 8 |             rcdigs            |           city_digs           |
| - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
|                               |                               |
12 |           city_digs           |*******************************|
|---------------+---------------+---------------+---------------|
|                                                               |
16 |***************************************************************|
|---------------+---------------+---------------+---------------|
   ( 16 bytes )
```

## 4. Population rules for RLiddd_r

**Relation Description**

There are no population rules for this relation.

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# IDP_ACT

## 1. Description

Individualized dialing plan alternate code treatment.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |
| corcable | DBYES |

## 3. Field Layout

```
IDP_ACT     relid = 454   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     idp_gpid    DMIDP_GPID   (ushort)  <--- key
     use_count   DMMCUSECNT   (ushort)
     ann         DMRTEIDX     (ushort: 12)
     ertrt       DMIDP_ERT    (enum: 3)
 (a) act_active  DMBOOL       (enum: 1)
     actsetnum   DMIDACTSET   (ushort: 6)  <--- key
         User, Compacted and Stored Tuple Layout    IDP_ACT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            idp_gpid           |           use_count           |
    |---------------+---------------+---------------+---------------|
    |                       |     | |           |                   |
  4 |          ann          |ertrt|a| actsetnum |*******************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLidp_act

**Relation Description**
Individualized dialing plan alternate code treatment.

**Attribute: idp_gpid**

**Fullname:** idp group Id.

**Attribute Description** Indicates the individualized dialing plan group this act set applies to. See rule for actsetnum attribute here.

**Attribute: actsetnum**

**Fullname:** alternate code treatment set number

**Attribute Description** Number assigned in the dialing plan for each valid individualized dialing

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code. Dependencies:
Existence of this tuple implies existence of a RLidp_gp tuple with a idp_gpid attribute value matching the value of idp_gpid in this tuple. Moreover, the act_alwd attribute of that RLidp_gp tuple must have the value DBYES.

**Attribute: use_count**

**Fullname:** Usage count.

**Attribute Description** Number of times this ACT is used by this idp group and this act set. that is, the number of RLidp_dtre and RLidp_cnfl tuples having the attribute actset_num the same value as actsetnum here. Value 0 indicates that tuple is eligible for removal. As noted just previously, value of use_count dependent on actsetnum attribute for all idp_dtre tuples for this same idp_gp.

**Attribute: ertrt**

**Fullname:** error treatment type

**Attribute Description** Indicates the type of error treatment to be given if alternate code treatment (act) error is encountered. Range of values: all enumerated values except IDESC_POTS

| Attribute Value | Dependency |
|---|---|
| IDANNOUNCE | RLidp_act.ann must be non-zero when treatment != IDANNOUNCE, ann = 0. |
| IDREROUTE | Insert tuple in RLidp_aert for this group indicating reroute to DN. |

**Attribute: ann**

**Fullname:** announcement number

**Attribute Description** MFC announcement route index. value must be non-zero when ertrt = IDANNOUNCE; otherwise, ann = 0. A non-zero value implies the existence of a tuple in RT_ROUTING keyed with the same value. NOTE: For generic 5e2(1) the previous is no longer true for the attribute ann. When the attribute ertrt = IDANNOUNCE, then ann must be 0.

**Attribute: act_active**

**Fullname:** act active / not active

**Attribute Description** Indicates if alternate code treatment is active (DBYES) or not active (DBNO).

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# IDP_AERT

## 1. Description

Individualized dialing plan alternate code treatment error treatment.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 4096 |
| intermediate page size | 512 |
| data page size | 256 |
| page level | 3 |
| ks key store | DBNO |

## 3. Field Layout

```
IDP_AERT    relid = 455   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP
     idp_gpid    DMIDP_GPID   (ushort)  <--- key, not stored
     actsetnum   DMIDACTSET   (ushort: 6)  <--- key, not stored
     dig         DMEDN32      (struct)  <--- compacted
         dcnt32      DMDCNT32     (ushort: 6)
         edn32       DMEDIGSTR    (array [ 32 ] of char )
            User Tuple Layout      IDP_AERT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |           |                 |
  0 |             idp_gpid            | actsetnum |*****************|
    |===============+============= dig =============+===============|
    |           |                                                   |
  4 |   dcnt32  |***************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                              edn32                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                              edn32                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                              edn32                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                              edn32                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 24 |                              edn32                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 28 |                              edn32                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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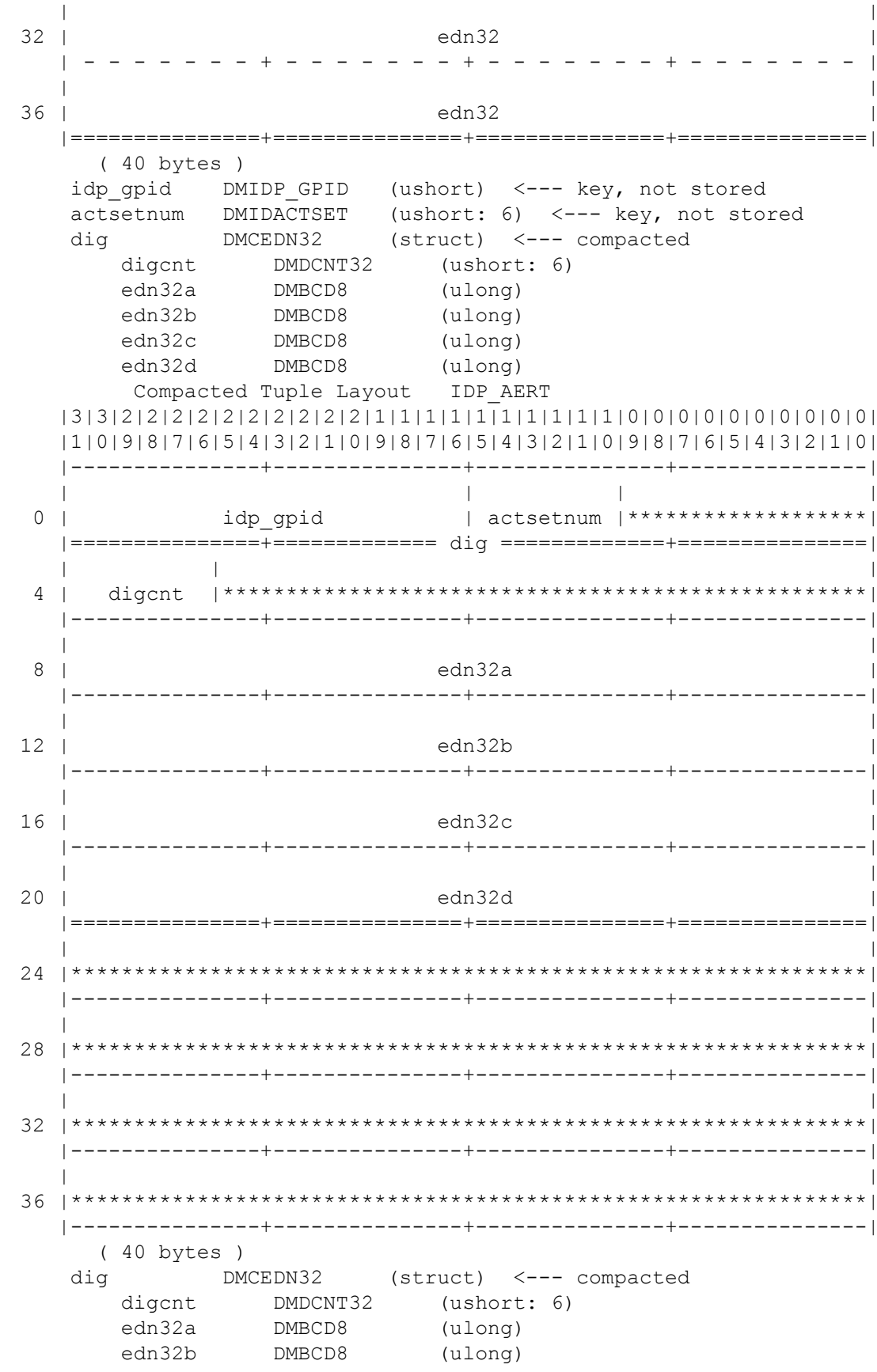


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```
        edn32c      DMBCD8       (ulong)
        edn32d      DMBCD8       (ulong)
          Stored Tuple Layout     IDP_AERT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============= dig =============+===============|
    |               |                                               |
  0 |   digcnt      |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                               edn32a                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                               edn32b                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                               edn32c                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                               edn32d                          |
    |===============+===============+===============+===============|
       ( 20 bytes )
```

## 4. Population Rules for RLidp_aert

**Relation Description**
Individualized dialing plan alternate code treatment error treatment.

See the attribute usage sections.

**Attribute: idp_gpid**

**Fullname:** individualized dialing plan group ID

**Attribute Description** Indicates the individualized dialing plan group.
Range of values: 1 - 65535.
Default value: None.
Dependencies: Verify existence of tuple in RLidp_gp for this key.

**Attribute: actsetnum**

**Fullname:** alternate code treatment set number

**Attribute Description** Indicates number assigned to dialing plan for each valid individualized dialing code.
Range 1 - 32.
Default value: None.
Dependencies: None.

**Attribute: dig**

**Fullname:** 32-digit string and digit count to reroute ACT errors

**Attribute Description** Indicates the number to which a call will be rerouted if an ACT error occurs and RLidp_act.ertrt = DREROUTE. This is a structure consisting of two members.

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**Attribute: dig.dcnt32**

**Fullname:** count of digits

**Attribute Description** The number of digits in RLidp_aert.dig.edn32.

**Attribute: dig.edn32**

**Fullname:** string of extended digits

**Attribute Description** 32-digit string.

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# IDP_CNFL

## 1. Description

IDP conflict table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
IDP_CNFL    relid = 251   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     idp_gpid    DMIDP_GPID   (ushort)  <--- key
     table_id    DMIDP_TBL    (ushort: 16)  <--- key
     feat_id     DMMCC_FID    (ushort)
     icom_ars    DMIDICRNG    (ushort: 10)
     actset_num  DMIDACTSET   (ushort: 6)
     action      DMMCACTN     (enum: 9)
     num_dig     DMDIGCNT     (uchar: 4)  <--- key
 (a) ffcf1       DMBOOL       (enum: 1)
 (b) ffcf2       DMBOOL       (enum: 1)
 (c) ffcf3       DMBOOL       (enum: 1)
     trignum     DMUNS8       (ushort: 8)
     dial_st     DMIDSTATE    (enum: 4)
 (d) ffcf4       DMBOOL       (enum: 1)
     dpat_array  DMIDDP_RY    (long)
         User, Compacted and Stored Tuple Layout   IDP_CNFL
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             idp_gpid          |             table_id          |
    |---------------+---------------+---------------+---------------|
    |                               |                   |           |
  4 |             feat_id           |      icom_ars     | actset_num|
    |---------------+---------------+---------------+---------------|
    |                 |       | | | |               |       | |     |
  8 |      action     |num_dig|a|b|c|    trignum    |dial_st|d|*****|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                           dpat_array                          |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLidp_cnfl

**Relation Description**
Individualized dialing plan (IDP) conflict table.

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**Attribute: idp_gpid**

**Fullname:** The individualized dialing plan group

**Attribute Description** Verify existence of tuple in RLidp_gp for this key.

**Attribute: table_id**

**Fullname:** Conflict analysis table ID

**Attribute Description** Indicates the individualized dialing plan digit analysis table ID (number) that should be accessed.
Dependencies: None.

**Attribute: num_dig**

**Fullname:** Number of digits dialed

**Attribute Description** Number of digits dialed. The meaning and value of this attribute depend upon the state of digit analysis.
Dependencies: None.

**Attribute: dial_st**

**Fullname:** Dial state

**Attribute Description** Indicates the dialing state as a result of the digits received so far.

| Attribute value | Dependency |
|---|---|
| IDCONT | All other attributes of this relation are "don't care" |
| IDAMBIG or IDFINISH | In this relation, set attributes feat_id, action, actset_num, icom_ars, dpat_array. |

**Attribute: feat_id**

**Fullname:** The MFC constructed feature ID

**Attribute Description** Dependencies: None.

**Attribute: icom_ars**

**Fullname:** The intercom range number or auto route selection ID for the latter feature use

**Attribute Description** Indicates the intercom range number if action == ACN_ICMUSE, ACN_POFO, ACN_POF, ACN_POP, ACN_POI, or ACN_PO. Not relevant for other action values. Zero indicates that the intercom component does not apply for the digits dialed. The plan is for this field to also hold the automatic route selection route pattern number when the action is ACN_ARUSE, in some future generic.

**Attribute: actset_num**

**Fullname:** The alternate code treatment (ACT) set number

**Attribute Description** Indicates the ACT set number for this dialed code. Zero indicates that no ACT applied for this dialed code.

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| Value | Dependency |
|---|---|
| 0 | RLidp_gp.act_alwd = DBNO, OR this code has no actset. |
| ! = 0 | RLidp_gp.act_alwd = DBYES. Verify existence of a tuple in RLidp_act for this actset_num value. |

**Attribute: action**

**Fullname:** The MFC feature action for this dialed digit sequence

**Attribute Description** Indicates the MFC feature action to be taken as a result of the dialed code.

The value ACN_NONE indicates no action applies for the digits dialed.

| Attribute value | Dependency |
|---|---|
| ACN_ICMUSE | Set icom_ars in this relation. Verify existence of a corresponding tuple in RLidp_icom. |
| ACN_POFO<br>ACN_POF<br>ACN_POI<br>ACN_POP<br>ACN_PO | Set icom_ars in this relation. Verify existence of a corresponding tuple in RLidp_icom with pots_accs set to DBYES. |
| Other | None |

**Attribute: dpat_array**

**Fullname:** Dial plan access treatment (DPAT) array

**Attribute Description** Each bit in dial plan access treatment array of 32 bits is set, read, interpreted, and modified individually. The DPAT categories 1 - 32 in RLidp_opts correspond to bits 0 - 31 in the dpat_array, 0 being the high-order bit. Each bit set to 1 allows access to a valid IDP code, and set to 0 denies access to that code.
Dependencies: None.

**Attribute: trignum**

**Fullname:** Trigger number

**Attribute Description** This field contains the network services trigger number which is the key to RLns_trig.

**Attribute: ffcf1**

**Fullname:** bit reserved for future field feature use

**Attribute Description** Not assigned yet.

**Attribute: ffcf2**

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**Fullname:** bit reserved for future field feature use

**Attribute Description** Not assigned yet.

**Attribute: ffcf3**

**Fullname:** bit reserved for future field feature use

**Attribute Description** Not assigned yet.

**Attribute: ffcf4**

**Fullname:** bit reserved for future field feature use

**Attribute Description** Not assigned yet.

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# IDP_DTRE

## 1. Description

This relation contains the individualized dialing plan digit analysis tree.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| foldtype | DBGC31 |

## 3. Field Layout

```
IDP_DTRE    relid = 252   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP


    idp_gpid    DMIDP_GPID   (ushort)  <--- key
    table_id    DMIDP_TBL    (ushort: 16)      <--- key
    feat_id     DMMCC_FID    (ushort)
    nxt_tbl     DMIDP_TBL    (ushort: 16)
    icom_ars    DMIDICRNG    (ushort: 10)
    actset_num  DMIDACTSET   (ushort: 6)
    action      DMMCACTN     (enum: 9)
    dial_st     DMIDSTATE    (enum: 4)
(a) ffcf1       DMBOOL       (enum: 1)
(b) ffcf2       DMBOOL       (enum: 1)
    digit       DMEDIGIT     (char)    <--- key
    trignum     DMUNS8       (ushort: 8)
    maxdig      DMDIGCNT     (uchar: 4)
    digcnt      DMDIGCNT     (uchar: 4)
    dpat_array  DMIDDP_RY    (long)
        User, Compacted and Stored Tuple Layout   IDP_DTRE
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            idp_gpid           |            table_id           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |            feat_id            |            nxt_tbl            |
   |---------------+---------------+---------------+---------------|
   |                   |           |                 |       | | | |
 8 |      icom_ars     | actset_num|      action     |dial_st|a|b|*|
   |---------------+---------------+---------------+---------------|
   |               |               |       |       |               |
12 |     digit     |    trignum    | maxdig| digcnt|***************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
16 |                          dpat_array                           |
   |---------------+---------------+---------------+---------------|
      ( 20 bytes )
```

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## 4. Population rules for RLidp_dtre

**Relation Description**

Individualized dialing plan (IDP) digit analysis tree

**Attribute:**
idp_gpid
**Fullname:**
Individualized dialing plan group ID
**Attribute Description:**
An idp_dtre tuple may exist only if an RLidp_gp with this same key
value for idp_gpid.

**Attribute:**
table_id
**Fullname:**
Digit analysis table ID
**Attribute Description:**
A idp_dtre tuple may exist only if an idp_gp with this same value for its da_tbl1 exists, or if an idp_dtre with this same value for its nxt_tbl attribute.

**Attribute:**
digit
**Fullname:**
Digit
**Attribute Description:**
Dialed digit.

**Attribute:**
dpat_array
**Fullname:**
Dialing plan access treatment (DPAT) array
**Attribute Description:**
Dial plan access treatment is an array of 32 bits. The domain for this attribute is based on a long integer. Each bit position in this long integer is manipulated as if it was an array element or a structure member. Each bit is set, read, inter-preted and modified individually. The DPAT categories 1 - 32 in RLidp_opts correspond to bits 0 - 31 in the dpat_array, 0 being the high-order bit. Each bit set to 1 allows access to a valid IDP code, and set to 0 denies access to that code.

**Attribute:**
feat_id
**Fullname:**
Feature ID (FID)

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**Attribute Description:**

A tuple must exist in RLfacname with this value in attribute facid. The /* (the null feature) can only be assigned to certain actions, such as ACN_AUCUSE. See RLbnfeat population rule for list of actions. Also, dependent upon dial_st, as seen previously.

This is to terminate the start of the previous comment. */

**Attribute:**

dial_st

**Fullname:**

Dial state

**Attribute Description:**

| | |
|---|---|
| IDCONT | set value of nxt_tbl: all other non-key fields should default. |
| IDREMAIN | set feat_id, digcnt, action, dpat_array: actset_num and icom_ars may be optionally set, see the following rules: next_tbl and max_dig should default. |
| IDFINISH | set feat_id, action, dpat_array: next_tbl and max_dig should default: actset_num and icom_ars may be optionally set, see the following rules. |
| IDAMBIG | set nxt_tbl, feat_id, action, dpat_array: max_dig should default: actset_num and icom_ars may be optionally set, see the following rules. |
| IDCNFLCT | set nxt_tbl, digcnt, and max_dig. Other non-key fields default. digcnt = 0: 2 < maxdig. Implies existence of at least 3 RLidp_cnfl tuples (with same value for key table_id): 1 with value for key num_dig same as digcnt, another with num_dig value same as maxdig, and others with all values between. |
| IDRANGE | Special case of IDCNFLCT handling to speed digit analysis (for the sake of critical digit timing and performance). Population same as for IDCNFLCT, except 1 < maxdig, and all the feat_id attributes of the associated RLidp_cnfl tuples are non-zero. |
| IDTWOCONF | Special case of IDCNFLCT handling to speed digit analysis (for the sake of critical digit timing and performance). Like population for IDCNFLCT except only 2 RLidp_cnfl |

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tuples exist, with num_dig values same as maxdig and digcnt, and 0 < maxdig.

IDPAUSE — This value is only valid for the PP feature in conjunction with the following action codes: ACN_DTONE, ACN_PPEO, ACN_PPFO, ACN_PPF, ACN_PPI, ACN_PPP, ACN_PPR, ACN_PAEO, ACN_PAFO, ACN_PAF, ACN_PAI, ACN_PAP, ACN_PAR, ACN_PRCD, ACN_PNTRC, ACN_PDTRC, ACN_ATHUSE, and ACN_ACCTUSE. Set feat_id, action, dpat_array: max_dig and icom_ars should default: actset_num and nxt_tbl may be optionally set, see the following rules:

**Attribute:**
maxdig
**Fullname:**
Maximum digits
**Attribute Description:**
Indicates the maximum number of digits expected after the digits received so far:

| | |
|---|---|
| 1-14 | When dial_st=IDTWOCONF. maxdig > digcnt. |
| 2-14 | When dial_st=IDRANGE. maxdig > digcnt. |
| 3-14 | When dial_st=IDCNFLCT. maxdig > digcnt. |
| 0 | All other values of dial_st. |

**Attribute:**
digcnt
**Fullname:**
Digit count
**Attribute Description:**
Indicates the minimum number of digits expected after the digits received so far:

| | |
|---|---|
| 1-14 | dial_st = IDREMAIN. |
| 0-13 | dial_st = IDTWOCONF. |
| 0-12 | dial_st = IDRANGE. |
| 0 | All other values of dial_st. |

**Attribute:**
nxt_tbl
**Fullname:**
Next table ID
**Attribute Description:**
!=0 — Only for dial_st=IDAMBIG or IDCONT (indicating next set of

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| | |
|---|---|
| | idp_dtre tuple) or dial_st= IDCNFLCT, IDTWOCONF, or IDRANGE (indicating set of idp_cnfl tuples). |
| !=0 or 0 | For dial_st = IDPAUSE. |

**Attribute:**
icom_ars
**Fullname:**
Intercom alternate route
**Attribute Description:**
Indicates the intercom range number. Valid only for certain dial_st values, (IDREMAIN, IDFINISH, IDAMBIG) Implies existence of RLidp_icom tuple with key idp_gpid value same as this feat_id and key icom_range same as icom_ars. Only allowed if action=ACN_ICMUSE, ACN_POFO, ACN_POF, ACN_POI, ACN_POP, ACN_PO, or ACN_EMER. RLidp_icom.dig_dlt must be less than or equal to the number of incoming digits + RLidp_dtre.maxdig.

**Attribute:**
actset_num
**Fullname:**
Alternate code treatment set number
**Attribute Description:**
RLidp_gp.act_alwd = DBYES. Also dependent on certain dial_st values (IDREMAIN, IDFINISH, IDAMBIG, IDPAUSE). RLidp_act must have a tuple for this actset_num value with key idp_gpid same as this feat_id and key actsetnum same as actset_num.

**Attribute:**
action
**Fullname:**
Action
**Attribute Description:**

| | |
|---|---|
| all | Dependent on dial_st, as seen previously. |
| except | Must also be a legal action for feature identified by feat_id: that is, there must be a RLfacftdsc tuple with key FID having the same value as feat_id and having |

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| | |
|---|---|
| | one of the actionXX attributes the same value as action. |
| ACN_ACFACT<br>ACN_ACFDCT | These actions are not valid for dialed code, and are internal to activation/deactivation software only. |
| ACN_ICMUSE | Also, set icom_ars (intercom range number). RLidp_icom must have a corresponding tuple, as seen previously. |
| ACN_POFO<br>ACN_POF<br>ACN_POI<br>ACN_POP<br>ACN_PO | Set icom_ars in this relation. Verify existence of a corresponding tuple in RLidp_icom with pots_accs set to DBYES. |
| ACN_DTONE | dial_st must be set to IDPAUSE. |
| ACN_PP1AREA,<br>ACN_PP2AREA,<br>ACN_PP3AREA,<br>ACN_PP4AREA,<br>ACN_PP5AREA | dial_st cannot be set to IDPAUSE for these enumerations. |
| N_NXTMSG,<br>N_NXTSEG,<br>N_NRMLUSE,<br>N_DQDUSE | These actions are not valid for dialed code but are invoked only with the user depressing a button (Q931 feature activation information element). |
| ACN_TODUSE,<br>ACN_AWTUSE,<br>ACN_QCUSE,<br>ACN_TCUSE,<br>ACN_TRKUSE, | These action codes are not valid for dialed codes, but may be used for feature buttons on ISDN terminals. |
| ACN_AUCUSE | This action code can only be allowed when feat_id is the null feature, /. |
| ACN_CA | This action code is not valid for dialed codes, but may be used to specify a call appearance button. |
| ACN_EMER | This action code assigns a value of ICI_EMER to the incoming call identification (ICI) associated with the call that dialed these digits. |

**Attribute:**

trignum

**Fullname:**

Trigger number

**Attribute Description:**

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This field contains the network services trigger number which is the key to RLns_trig.

**Attribute:**

ffcf[*]

**Fullname:**

future field.

**Attribute Description:**

Future field feature use.

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# IDP_ERT

## 1. Description

Individualized dialing plan error treatment.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 8192 |
| data page size | 1024 |
| page level | 2 |
| ks key store | DBNO |

## 3. Field Layout

```
IDP_ERT     relid = 456   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP
     idp_gpid    DMIDP_GPID   (ushort)  <--- key, not stored
     idp_dig     DMEDN32      (struct)  <--- compacted
         dcnt32      DMDCNT32     (ushort: 6)
         edn32       DMEDIGSTR    (array [ 32 ] of char )
     dpat_dig    DMEDN32      (struct)  <--- compacted
         dcnt32      DMDCNT32     (ushort: 6)
         edn32       DMEDIGSTR    (array [ 32 ] of char )
            User Tuple Layout   IDP_ERT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |                             |                             |
  0 |             idp_gpid        |*****************************|
    |==============+========== idp_dig ==========+==============|
    |           |                                               |
  4 |   dcnt32  |***********************************************|
    |--------------+--------------+--------------+--------------|
    |                                                           |
  8 |                             edn32                         |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                           |
 12 |                             edn32                         |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                           |
 16 |                             edn32                         |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                           |
 20 |                             edn32                         |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                           |
 24 |                             edn32                         |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                           |
 28 |                             edn32                         |
```

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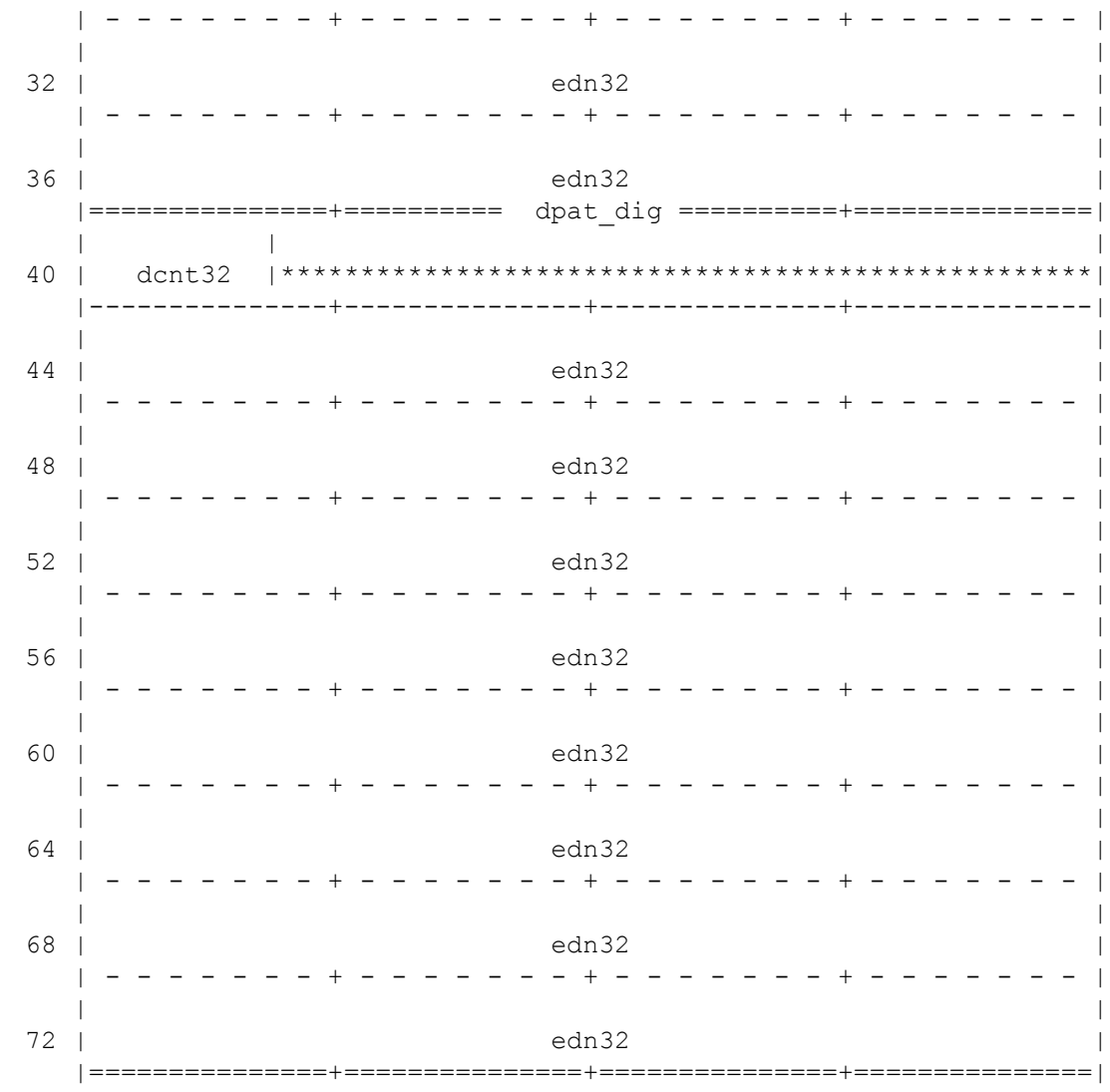
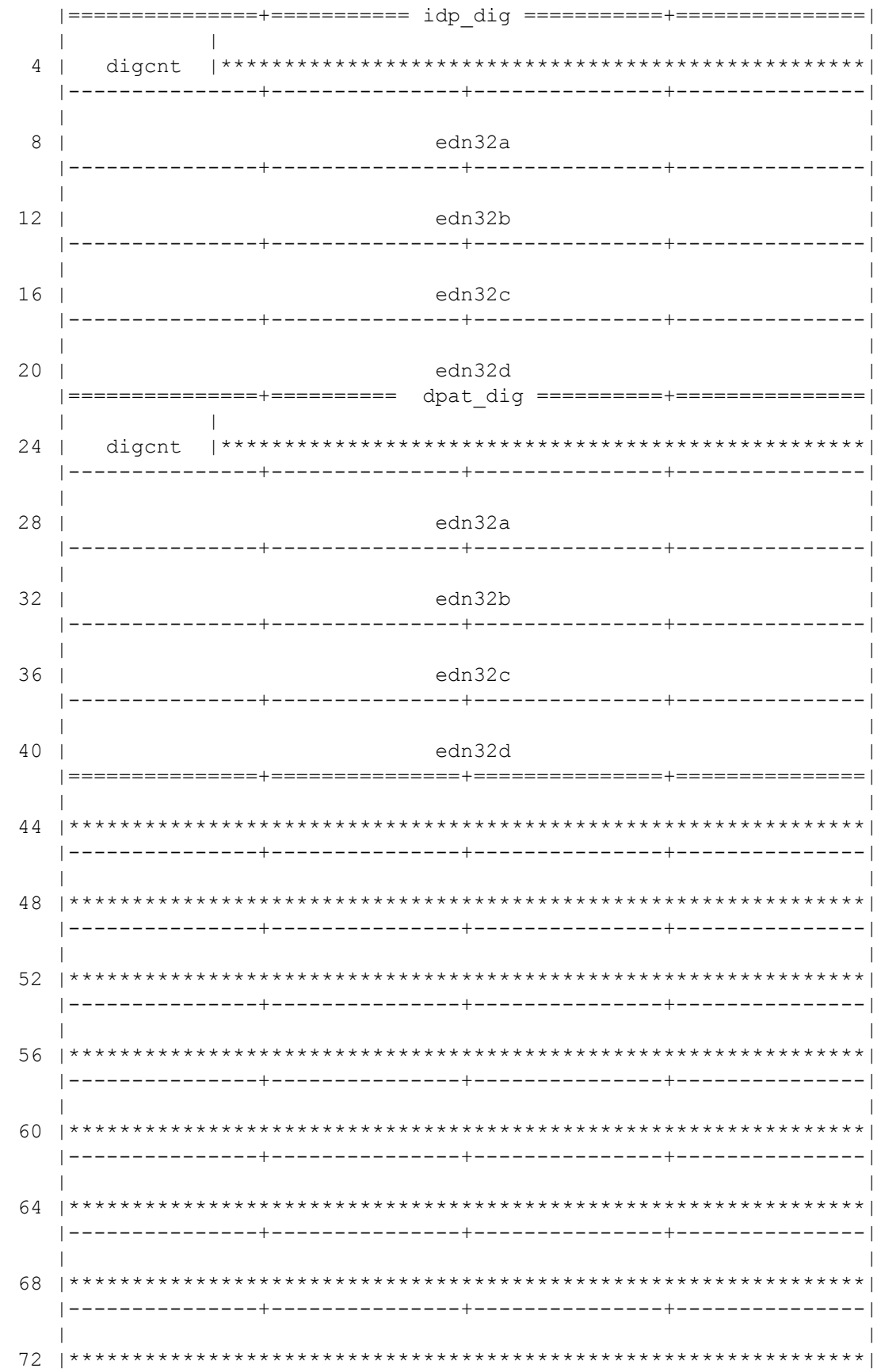



```
  ( 76 bytes )
idp_gpid    DMIDP_GPID   (ushort)  <--- key, not stored
idp_dig     DMCEDN32     (struct)  <--- compacted
    digcnt      DMDCNT32     (ushort: 6)
    edn32a      DMBCD8       (ulong)
    edn32b      DMBCD8       (ulong)
    edn32c      DMBCD8       (ulong)
    edn32d      DMBCD8       (ulong)
dpat_dig    DMCEDN32     (struct)  <--- compacted
    digcnt      DMDCNT32     (ushort: 6)
    edn32a      DMBCD8       (ulong)
    edn32b      DMBCD8       (ulong)
    edn32c      DMBCD8       (ulong)
    edn32d      DMBCD8       (ulong)
     Compacted Tuple Layout    IDP_ERT
|3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
|---------------+---------------+---------------+---------------|
|                               |                               |
 0 |            idp_gpid           |*******************************|
```

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```
|---------------+---------------+---------------+---------------|
   ( 76 bytes )
 idp_dig     DMCEDN32     (struct)  <--- compacted
     digcnt      DMDCNT32     (ushort: 6)
     edn32a      DMBCD8       (ulong)
     edn32b      DMBCD8       (ulong)
     edn32c      DMBCD8       (ulong)
     edn32d      DMBCD8       (ulong)
 dpat_dig    DMCEDN32     (struct)  <--- compacted
     digcnt      DMDCNT32     (ushort: 6)
     edn32a      DMBCD8       (ulong)
     edn32b      DMBCD8       (ulong)
     edn32c      DMBCD8       (ulong)
     edn32d      DMBCD8       (ulong)
       Stored Tuple Layout      IDP_ERT
|3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
|===============+=========== idp_dig ===========+===============|
|           |                                                     |
 0 |   digcnt  |*****************************************************|
|---------------+---------------+---------------+---------------|
|                                                                 |
 4 |                             edn32a                          |
|---------------+---------------+---------------+---------------|
|                                                                 |
 8 |                             edn32b                          |
|---------------+---------------+---------------+---------------|
|                                                                 |
12 |                             edn32c                          |
|---------------+---------------+---------------+---------------|
|                                                                 |
16 |                             edn32d                          |
|===============+==========  dpat_dig ==========+===============|
|           |                                                     |
20 |   digcnt  |*****************************************************|
|---------------+---------------+---------------+---------------|
|                                                                 |
24 |                             edn32a                          |
|---------------+---------------+---------------+---------------|
|                                                                 |
28 |                             edn32b                          |
|---------------+---------------+---------------+---------------|
|                                                                 |
32 |                             edn32c                          |
|---------------+---------------+---------------+---------------|
|                                                                 |
36 |                             edn32d                          |
|===============+===============+===============+===============|
   ( 40 bytes )
```

## 4. Population Rules for RLidp_ert

**Relation Description**
Individualized dialing plan error treatment.

See the idp_gpid, idp_dig, and dpat_dig usage sections.

**Attribute: idp_gpid**

**Fullname:** individualized dialing plan group

**Attribute Description** Indicates the individualized dialing plan group.
Range of values: 1 to 65535.
Default value: None
Dependencies: Verify existence of tuple in RLidp_gp for this key value.

**Attribute: idp_dig**

**Fullname:** 32-digit string and digit count to reroute idp errors

**Attribute Description** Reroute to DN. This is the number to which a call will be rerouted if an IDP error occurs and the error treatment is 'REROUTE'. This is a structure consisting of two elements.

**Attribute: idp_dig.dcnt32 Fullname:** count of digits - 32 max

**Attribute Description** The number of digits in RLidp_ert.idp_dig.edn32.

**Attribute: idp_dig.edn32**

**Fullname:** string of extended digits

**Attribute Description** 32-digit string; An array of up to 32 extended digits (0-9, #, *, Null ('') ).

**Attribute: dpat_dig**

**Fullname:** 32-digit string and digit count to reroute dpat errors

**Attribute Description** Reroute to DN. This is the number to which a call is rerouted if a DPAT error occurs and the error treatment is 'REROUTE'. This is a structure consisting of two elements.

**Attribute: dpat_dig.dcnt32**

**Fullname:** count of digits - 32 max

**Attribute Description** The number of digits in RLidp_ert.dpat_dig.edn32.

**Attribute: dpat_dig.edn32**

**Fullname:** string of extended digits

**Attribute Description** 32-digit string;
an array of up to 32 extended digits (0-9, #, *)

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# IDP_GP

## 1. Description

This relation contains the individualized dialing plan group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |
| corcable | DBYES |

## 3. Field Layout

```
IDP_GP      relid = 443   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     idp_gpid    DMIDP_GPID   (ushort) <--- key
     da_tbl1     DMIDP_TBL    (ushort: 16)
     rev_tbl1    DMIDP_TBL    (ushort: 16)
     gp_pic2     DMBCARID     (ushort: 14)
 (a) idp_active  DMBOOL       (enum: 1)
 (b) act_alwd    DMBOOL       (enum: 1)
     gp_plc      DMBCARID     (ushort: 14)
 (c) star_lb     DMSTAR_LB    (enum: 2)
     gp_pic4     DMBCARID     (ushort: 14)
 (d) dpat_alwd   DMBOOL       (enum: 1)
 (e) ffcf1       DMBOOL       (enum: 1)
     idp_ann     DMRTEIDX     (ushort: 14)
 (f) ffcf3       DMBOOL       (enum: 1)
 (g) ffcf4       DMBOOL       (enum: 1)
     dpat_ann    DMRTEIDX     (ushort: 14)
 (h) ftdn_iep    DMBOOL       (enum: 1)
 (i) esc_init_alw  DMBOOL       (enum: 1)
     idp_esc     DMIDP_ESC    (array [ 3 ] of char )
 (j) idp_ertrt   DMIDP_ERT    (enum: 3)
 (k) dpat_ertrt  DMIDP_ERT    (enum: 3)
 (l) unbundled   DMBOOL       (enum: 1)
     gp_carr_id  DMCARRID     (array [ 4 ] of char )
         User, Compacted and Stored Tuple Layout IDP_GP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            idp_gpid           |            da_tbl1            |
    |---------------+---------------+---------------+---------------|
    |                               |                           | | |
  4 |            rev_tbl1           |          gp_pic2          |a|b|
    |---------------+---------------+---------------+---------------|
    |                           |   |                           | | |
  8 |           gp_plc          | c |          gp_pic4          |d|e|
    |---------------+---------------+---------------+---------------|
```

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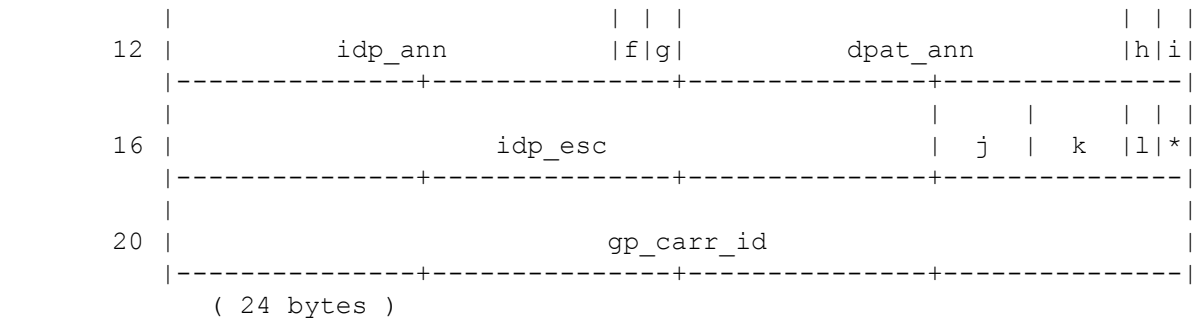


## 4. Population rules for RLidp_gp

**Relation Description**

Individualized dialing plan group.
Individualized dialing plan group.

**Attribute:**
idp_gpid
**Fullname:**
Individualized dialing plan group id.
**Attribute Description:**
Indicates the group number of this idp group.

**Attribute:**
gp_carr_id
**Fullname:**
group carrier id.
**Attribute Description:**
Identifies default carrier for this idp group.

**Attribute:**
gp_pic2
**Fullname:**
Group Primary Intra-LATA-Toll Carrier ID
**Attribute Description:**
Identifies carrier to use for Intra-LATA-Toll calls for this IDP. The gp_pic2 must be $NULL_BCARID if the ICLATA SF (SFID 149) is not activated.

**Attribute:**
gp_plc
**Fullname:**
Group presubscribed intra-LATA local carrier ID
**Attribute Description:**
This attribute contains the group presubscribed intra-LATA local carrier ID for an alternate LSP.

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**Attribute:**
gp_pic4
**Fullname:**
Group presubscribed international carrier ID
**Attribute Description:**
This attribute identifies the presubscribed international carrier ID.

**Attribute:**
idp_ertrt
**Fullname:**
idp error treatment.
**Attribute Description:**
Indicates the type of error treatment for idp errors.

**Attribute:**
dpat_ertrt
**Fullname:**
Dialing plan access treatment errors.
**Attribute Description:**
Indicates the type of error treatment for dial plan access treatment errors.

**Attribute:**
idp_ann
**Fullname:**
idp error treatment.
**Attribute Description:**
Indicates announcement route number if idp error treatment is DANNOUNCE. Currently always set to 0.

**Attribute:**
dpat_ann
**Fullname:**
dpat error treatment.
**Attribute Description:**
Indicates announcement route index for dpat error treatment. Currently always set to 0.

**Attribute:**
idp_active
**Fullname:**
idp active.
**Attribute Description:**
Indicates whether the idp feature is in active or deactive state.

**Attribute:**
act_alwd

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**Fullname:**
alternate code treatment allowed.
**Attribute Description:**
Indicates whether alternate code treatment (ACT) is allowed for thi
idp group.

**Attribute:**
dpat_alwd
**Fullname:**
dial plan access treatment allowed.
**Attribute Description:**
Indicates whether dial plan access treatment is allowed or not
for this idp group.

**Attribute:**
ffcf1
**Fullname:**
future field feature.
**Attribute Description:**
future feature entry.

**Attribute:**
ffcf3
**Fullname:**
future field feature.
**Attribute Description:**
future feature entry.

**Attribute:**
ffcf4
**Fullname:**
future field feature.
**Attribute Description:**
future feature entry.

**Attribute:**
da_tbl1
**Fullname:**
first digit analysis table id.
**Attribute Description:**
Indicates the first digit analysis table for this idp group.

**Attribute:**
rev_tbl1
**Fullname:**
first reverse digit analysis table id.
**Attribute Description:**

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Indicates the first reverse digigt analysis table id for thisidp_gpid.

**Attribute:**
star_lb
**Fullname:**
star(*) or pound(#).
**Attribute Description:**
This field indicates whether star(*) and/or pound (#) are used as idp digits
NO_STARLB: Neither * nor # are used as idp digits
STAR_ONLY: Only * isused as an idp digits
LB_ONLY: Only # isused as an idp digits
STARLB: Both * and # are used as idp digits

**Attribute:**
ftdn_iep
**Fullname:**
Forward To DN/IDP Escape to POTS
**Attribute Description:**
Indicates whether or not a dial tone is returned after dialing the escape to POTS code as part of the Call Forwarding remote DN on a per IDP basis.

**Attribute:**
esc_init_alw
**Fullname:**
Escape Code Initialization allowed
**Attribute Description:**
This attribute is set to DBYES for the construction of new IDP groups. When this attribute is equal to DBYES, idp_esc[] may be automatically populated with a DTPOTSA code, once idp_esc[] is populated, esc_init_alw is set to DBNO. This insures that idp_esc[] is only populated once.

**Attribute:**
idp_esc
**Fullname:**
Individualized dialing plan escape code
**Attribute Description:**
Contains the digits which comprise an escape to POTS code for this IDP. Although more than one may exist, the first one created is populated in this attribute.
Default: No escape code is stored, the digit count would be 0, and the digits would be set to null.
The IDP escape code is a set of 1 to 3 digits. The first digit may be 0-9, an '*' or a '#', which is stored as the values 10 or 11 in the attribute, respectively. If the number of digits stored is < 3, the null character

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```
(which in BCD is 0) is used to fill the remaining digits.
The digit count contains the number of digits
that are stored.
The digits are stored in BCD format, 4 bits per digit.
The domain is 3 bytes long, which allows the storage
of 3 digits, plus the digit count.  An entire byte is
required for the digit count by existing DBGEN code.
The digits are stored in the attribute starting with D1.
  byte 0  | byte 1  | byte 2  |
 -------------------------------
     |    |    |    | digit   |
  D1 | D2 | D3 | xxx| count   |
     |    |    |    |         |
 -------------------------------
high  low   high low
bits  bits  bits bits
Valid values of D1    - '#', '*', 0 - 9
Valid values of D2,D3 - 0 - 9
Valid values of digcnt- 0 - 3
```

**Attribute:**

unbundled

**Fullname:**

Network/LEC indicator, for calls to complete
to an alternate LSP platform.

**Attribute Description:**

When unbundled = DBYES, (None/1)+ 7/10 digit intra-LATA local calls route using presubscribed local carrier (PLC) information. If PLC routing information is not populated, route via the LEC. When unbundled = DBNO, (None/1)+ 7/10 digit intra-LATA local calls always route via the LEC.

**Defines:**

"db/DMcarr_val.h",
"db/DMcarrid.h"

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# IDP_ICOM

## 1. Description

Individualized dialing plan intercom data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 80 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |

## 3. Field Layout

```
IDP_ICOM    relid = 457   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     idp_gpid    DMIDP_GPID   (ushort)  <--- key
     use_count   DMMCUSECNT   (ushort)
     icom_range  DMIDICRNG    (ushort: 10)  <--- key
     dig_dlt     DMDCNT32     (ushort: 6)
 (a) pots_accs   DMBOOL       (enum: 1)
     dig_pfx     DMEDN32      (struct)  <--- compacted
         dcnt32      DMDCNT32     (ushort: 6)
         edn32       DMEDIGSTR    (array [ 32 ] of char )
            User Tuple Layout      IDP_ICOM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            idp_gpid           |           use_count           |
    |---------------+---------------+---------------+---------------|
    |                   |           | |                             |
  4 |     icom_range    |  dig_dlt  |a|*****************************|
    |===============+===========  dig_pfx  ===========+===============|
    |           |                                                   |
  8 |   dcnt32  |***************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                            edn32                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                            edn32                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                            edn32                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 24 |                            edn32                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 28 |                            edn32                              |
```

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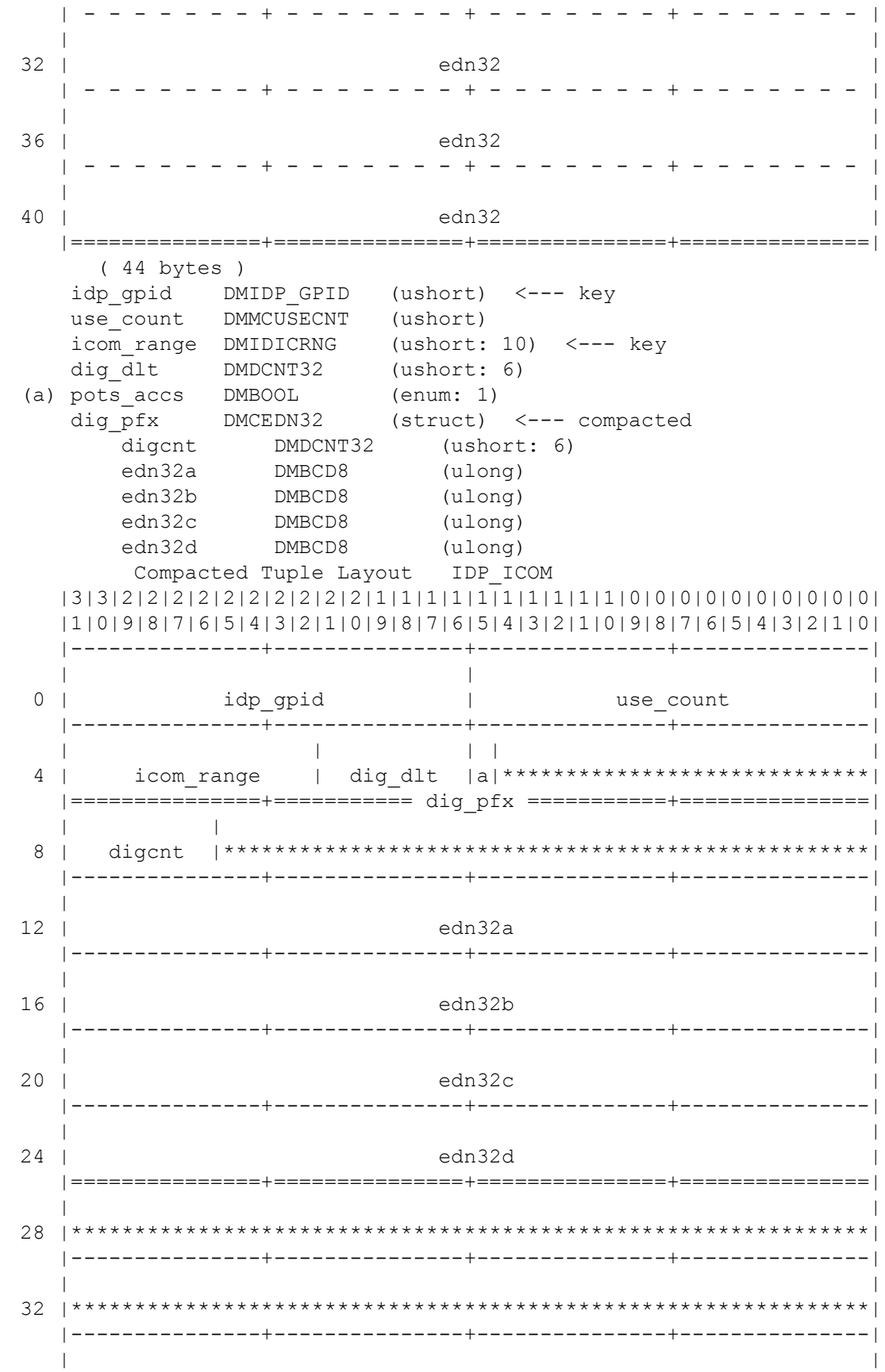
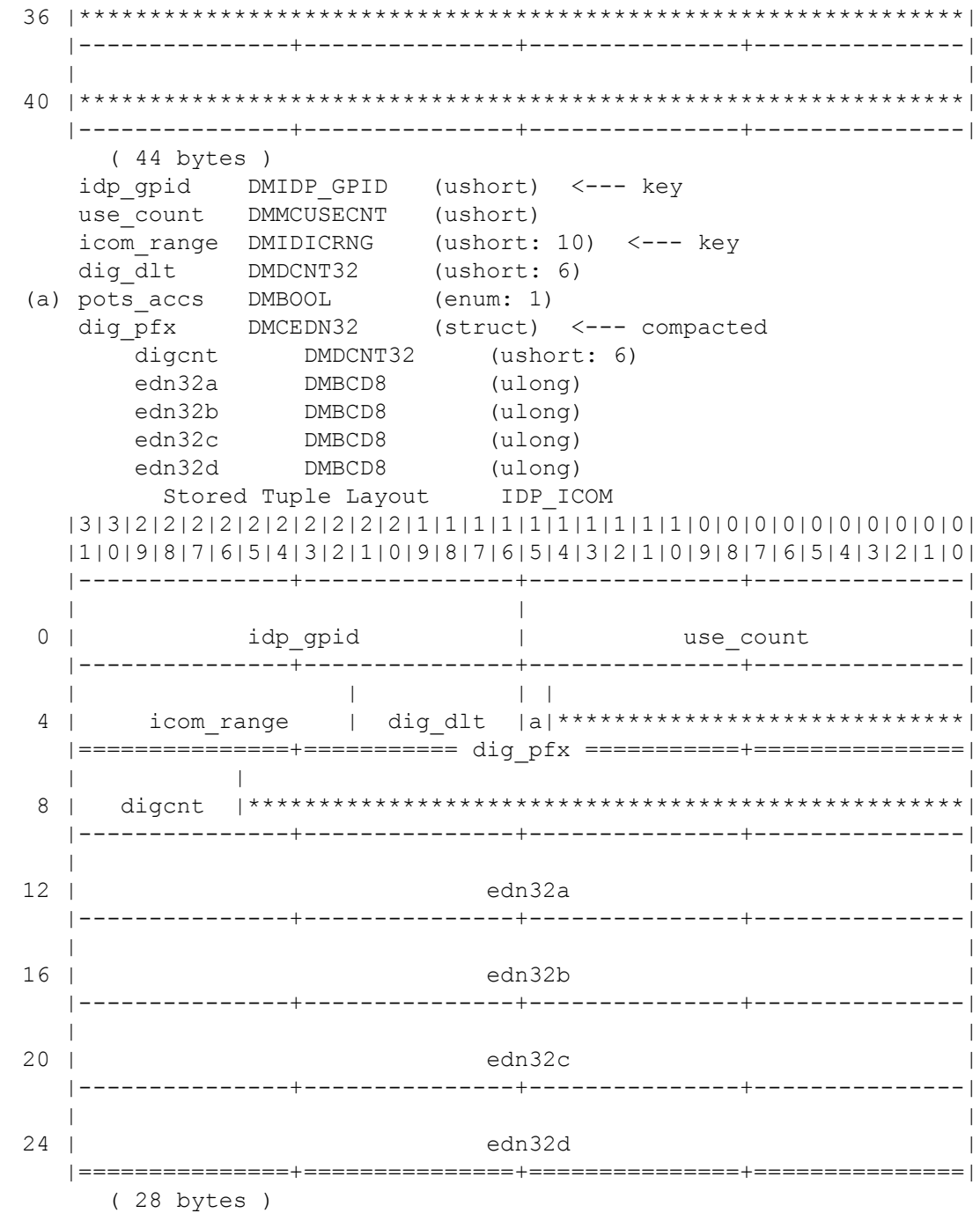

edn32
edn32
edn32
( 44 bytes )
idp_gpid DMIDP_GPID (ushort) <--- key
use_count DMMCUSECNT (ushort)
icom_range DMIDICRNG (ushort: 10) <--- key
dig_dlt DMDCNT32 (ushort: 6)
(a) pots_accs DMBOOL (enum: 1)
dig_pfx DMCEDN32 (struct) <--- compacted
digcnt DMDCNT32 (ushort: 6)
edn32a DMBCD8 (ulong)
edn32b DMBCD8 (ulong)
edn32c DMBCD8 (ulong)
edn32d DMBCD8 (ulong)
Compacted Tuple Layout IDP_ICOM
3 3 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
1 0 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0
idp_gpid
use_count
icom_range
dig_dlt
a
dig_pfx
digcnt
edn32a
edn32b
edn32c
edn32d
0
4
8
12
16
20
24
28
32




## 4. Population Rules for RLidp_icom

**Relation Description**
Individualized dialing plan intercom.

idp_icom - individualized dialing plan intercom data.

**Attribute: idp_gpid**

**Fullname:** IDP Group ID

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**Attribute Description** Indicates the individualized dialing plan group id.

**Attribute: icom_range**

**Fullname:** Intercom Range Number

**Attribute Description** Indicates the range number of this intercom range.

**Attribute: dig_pfx**

**Fullname:** String of Digits to Prefix

**Attribute Description** Indicates the string of digits and the number of digits to be prefixed to the digits dialed. This is a structure of two members: edn32 - an array of up to 32 extended digits; and digcnt - the number of digits dialed.

**Attribute: dig_pfx.dcnt32**

**Fullname:** Number of Digits Dialed

**Attribute Description** Indicates the number of digits dialed.

**Attribute: dig_pfx.edn32**

**Fullname:** 32 Extended Digits

**Attribute Description** This is member: edn32 - an array of up to 32 extended digits.

**Attribute: use_count**

**Fullname:** Number of IDP Group Using This Tuple

**Attribute Description** Indicates the range number of this intercom.

**Attribute: pots_accs**

**Fullname:** POTS Access Allowed

**Attribute Description** Indicates whether POTS access is allowed(DBYES) or not allowed (DBNO).

**Attribute: dig_dlt**

**Fullname:** Number of Digits to Delete

**Attribute Description** Number of digits to be deleted from the digits.

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# IDPRDTRE

## 1. Description

Individualized dialing plan reverse digit analysis tree.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 512 |
| data page size | 256 |
| page level | 0 |
| foldtype | DBDEFAULT |
| linear | DBNO |

## 3. Field Layout

```
IDPRDTRE    relid = 1162  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     idp_gpid    DMIDP_GPID   (ushort)  <--- key
     table_id    DMIDP_TBL    (ushort: 16)  <--- key
     nxt_tbl     DMIDP_TBL    (ushort: 16)
     ricom_rng   DMIDICRNG    (ushort: 10)
     digit       DMBCD        (ushort: 4)  <--- key
 (a) dial_st     DMIDPSTATE   (enum: 2)
         User, Compacted and Stored Tuple Layout   IDPRDTRE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            idp_gpid           |            table_id           |
    |---------------+---------------+---------------+---------------|
    |                               |                   |       |   |
  4 |            nxt_tbl            |     ricom_rng     | digit | a |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLidprdtre

**Relation Description**
Individualized dialing plan reverse digit analysis tree.

This relation is used in a reverse mapping that will derive a corresponding extension (if one exists) from a 10 digit public DN.

In addition to the LASS Auto Callback feature which already uses this relation, the 'Seven Digit Entry of Forward-to-DNs for IDP' transparency feature will use these relations to determine if an extension exists for a 7 or 10 digit public DN that is a forward-to-DN. This feature is available starting with general availability of 5E6 and including all offices which install the 5E5 BWM containing this feature.

It is suggested that if this relation is populated, the following other relations be populated likewise: RLIDPRICOM, and RLNMIMPDGTS. It is also important to populate the GLinpa global parameter.

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**Attribute: idp_gpid**

**Fullname:** Individualized Dialing Plan group id

**Attribute Description** Indicates the Individualized Dialing Plan group.

**Attribute: table_id**

**Fullname:** reverse digit analysis table id

**Attribute Description** Indicates the Individualized Dialing Plan digit analysis table id that should be accessed.

**Attribute: digit**

**Fullname:** dialed digit to be analyzed

**Attribute Description** Dialed digit to be analyzed. AUTOVON will not be supported so F, O, I and P will not be in the valid range of values for this attribute.

**Attribute: dial_st**

**Fullname:** dial state

**Attribute Description** Indicates the dialing state as a result of the digits received so far.

**Attribute: ricom_rng**

**Fullname:** intercom range number

**Attribute Description** Indicates the range number of this intercom range.

**Attribute: nxt_tbl**

**Fullname:** Next Table ID

**Attribute Description** Indicates the next individualized dialing plan reverse digit analysis table id that should be accessed.

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# IDPRICOM

## 1. Description

Individualized dialing plan reverse digit analysis prefix and delete intercom data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 80 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| foldtype | DBDEFAULT |

## 3. Field Layout

```
IDPRICOM    relid = 1163  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
    idp_gpid    DMIDP_GPID   (ushort)  <--- key
     use_count   DMMCUSECNT   (ushort)
     ricom_rng   DMIDICRNG    (ushort: 10)  <--- key
     dig_dlt     DMDIGCNT     (uchar: 4)
     dig_pfx     DMDC7        (struct)
         dig5        DMBCD        (ushort: 4)
         dig1        DMBCD        (ushort: 4)
         dig6        DMBCD        (ushort: 4)
         dig2        DMBCD        (ushort: 4)
         dig7        DMBCD        (ushort: 4)
         dig3        DMBCD        (ushort: 4)
 (a)     digcnt      DMUNS3       (ushort: 3)
         dig4        DMBCD        (ushort: 4)
         User, Compacted and Stored Tuple Layout   IDPRICOM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |            idp_gpid             |           use_count           |
    |---------------+---------------+---------------+---------------|
    |                   |       |                                   |
  4 |     ricom_rng     |dig_dlt|***********************************|
    |===============+========== dig_pfx ==========+===============|
    |       |       |       |       |       |       | |     |       |
  8 |  dig5 |  dig1 |  dig6 |  dig2 |  dig7 |  dig3 |*|  a  |  dig4 |
    |===============+===============+===============+===============|
       ( 12 bytes )
```

## 4. Population Rules for RLidpricom

**Relation Description**
Individualized dialing plan reverse digit analysis prefix and delete intercom data.

This relation contains individualized dialing Plan intercom data that will be used by reverse digit analysis to

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reconstruct an extension from a 10 digit public DN.

In addition to the LASS auto callback feature which already uses this relation, the 'seven digit entry of forward-to-DNs for IDP' transparency feature will use these relations to determine if an extension exists for a 7 or 10 digit public DN that is a forward-to-DN. This feature is available starting with general availability of 5E6 and including all offices which install the 5E5 BWM containing this feature.

It is suggested that if this relation is populated, the following other relations be populated likewise: RLIDPRDTRE, and RLNMIMPDGTS. It is also important to populate the GLinpa global parameter.

```
dom_name     domain description
--------     ------ -----------
dc7          Compact structure which stores up to 7 BCD
             digits and a digit count.

structure layout
--------- ------
```

This structure is used to store BCD digit strings of size less than or equal to 7 digits. The ASCII strings are of the form:

DMADC7 ==>

```
|----|----|----|----|----|----|----|------|
|dig1|dig2|dig3|dig4|dig5|dig6|dig7|digcnt|  8 bytes
|----|----|----|----|----|----|----|------|
```

After conversion to BCD, the structure will be of the form:

DMDC7 ==>

```
|------/--|------/--|------/--|------/--|
|     /   |     /   |     /   |dig- /   |
|dig5/dig1|dig6/dig2|dig7/dig3|cnt /dig4|    4 bytes
|   /     |   /     |   /     |   /     |
|--/------|--/------|--/------|--/------|
population rules
---------- -----
refer to uhdr/db/DMbcd.G for BCD population rules
macro support
----- -------
```

(1) refer to uhdr/rc/RCbcd_macs.G for ASCII to BCD digit conversion macros in the AM.

(2) refer to uhdr/fc/FCbcd_macs.G for ASCII to BCD digit conversion macros in the SM.

**Attribute: idp_gpid**

**Fullname:** Individualized Dialing Plan group id

**Attribute Description** Indicates the group number of this IDP group.

**Attribute: ricom_rng**

**Fullname:** Intercom Range Number

**Attribute Description** Indicates the range number of this intercom range.

**Attribute: dig_dlt**

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**Fullname:** Number of Digits to Delete

**Attribute Description** This is the number of digits, up to 10, to be deleted from the dialed digits.

**Attribute: dig_pfx**

**Fullname:** String of Digits to Prefix

**Attribute Description** Indicates the string of digits, up to 7, and the number of digits to be prefixed to the digits dialed.

**Attribute: dig_pfx.dig5**

**Fullname:** digit prefix for digit 5

**Attribute Description** This is digit 5 of up to 7.

**Attribute: dig_pfx.dig1**

**Fullname:** digit prefix for digit 1

**Attribute Description** This is digit 1 of up to 7.

**Attribute: dig_pfx.dig6**

**Fullname:** digit prefix for digit 6

**Attribute Description** This is digit 6 of up to 7.

**Attribute: dig_pfx.dig2**

**Fullname:** digit prefix for digit 2

**Attribute Description** This is digit 2 of up to 7.

**Attribute: dig_pfx.dig7**

**Fullname:** digit prefix for digit 7

**Attribute Description** This is digit 7 of up to 7.

**Attribute: dig_pfx.dig3**

**Fullname:** digit prefix for digit 3

**Attribute Description** This is digit 3 of up to 7.

**Attribute: dig_pfx.digcnt**

**Fullname:** digit count

**Attribute Description** Count number of digits.

**Attribute: dig_pfx.dig4**

**Fullname:** digit prefix for digit 4

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**Attribute Description** This is digit 4 of up to 7.

**Attribute: use_count**

**Fullname:** Intercom Range Use Count

**Attribute Description** Indicates how many intercom ranges in this idp group are using this tuple.

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# IDRMK_R

## 1. Description

This is the root storage relation for RC_IDRMK.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 12512 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTORAGE |
| head table size | 1024 |
| data page size | 256 |
| foldtype | DBGC31 |
| permutation type | perm |

## 3. Field Layout

```
IDRMK_R     relid = 1691  DBSTORAGE  DBACC_HASH  DBPRAM    LP      RCDATA
     indit       DMSHORT      (short)  <--- key
     remarks     DMGK16       (ulong: 16)
     rcdigs      DMDIGSTRING  (array [ 15 ] of char ) <--- key, compacted
            User Tuple Layout   IDRMK_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              indit            |            remarks            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             rcdigs                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             rcdigs                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                             rcdigs                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                 |             |
 16 |                     rcdigs                      |*************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
     indit       DMSHORT      (short)  <--- key
     remarks     DMGK16       (ulong: 16)
     rcdigs      DMKDIGSTR    (array [ 8 ] of char )  <--- key, compacted
          Compacted Tuple Layout    IDRMK_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              indit            |            remarks            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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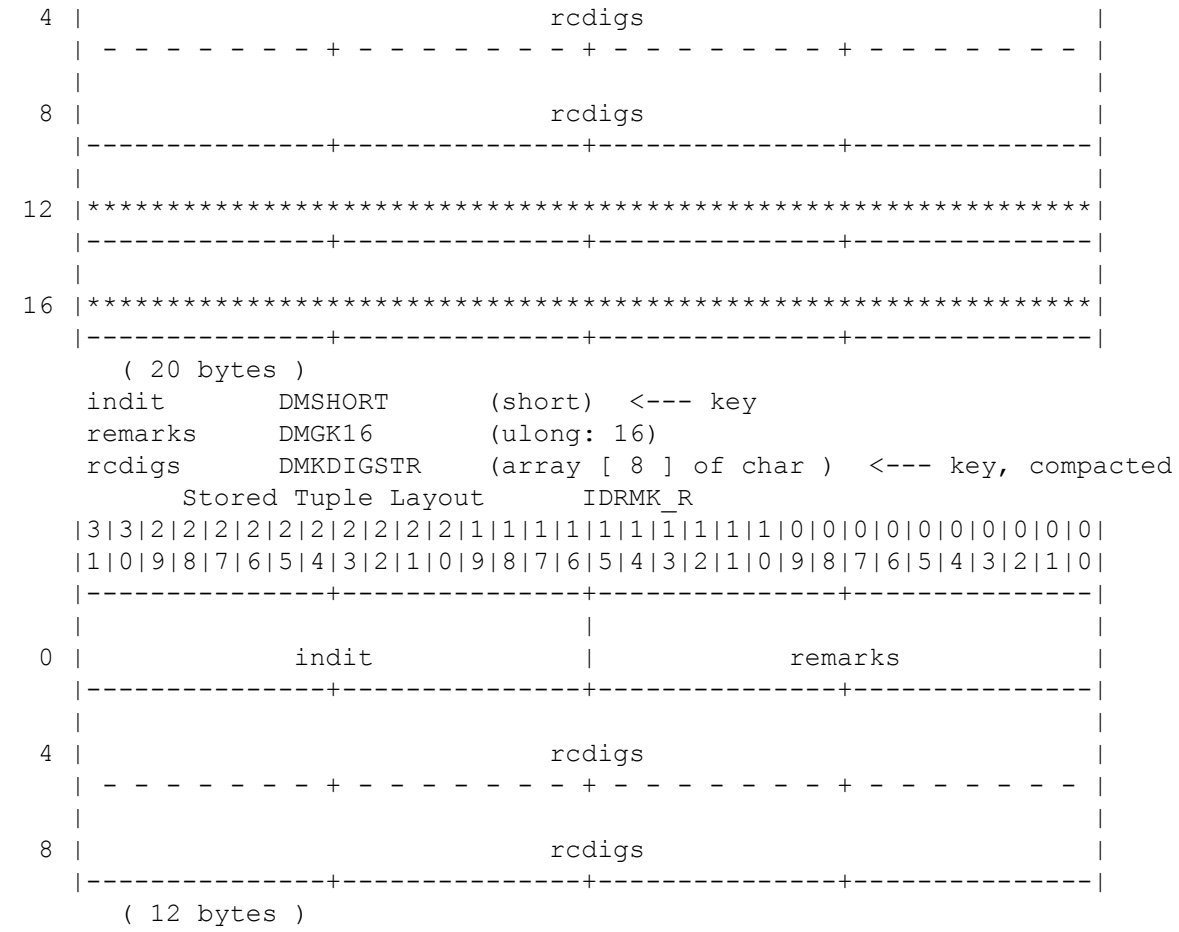


## 4. Population Rules for RLidrmk_r

There are no population rules for this relation.

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# IDX_DPCS

## 1. Description

This relation will contain the SCCP Accounting Point Code information. The relation will provide a means of reverse mapping from the Point code index to the Point Code.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 50 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ks key store | DBNO |

## 3. Field Layout

```
IDX_DPCS    relid = 2407  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     gtpcindx    DMUNS8       (ushort: 8)     <--- key, not stored
     opc         DMDPC        (ulong: 24)
     num_gtt     DMUNS8       (ushort: 8)
         User and Compacted Tuple Layout   IDX_DPCS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |    gtpcindx   |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  4 |                      opc                      |    num_gtt    |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     opc         DMDPC        (ulong: 24)
     num_gtt     DMUNS8       (ushort: 8)
           Stored Tuple Layout     IDX_DPCS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                      opc                      |    num_gtt    |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLidx_dpcs

**Relation Description**
SCCP Accounting Index to DPCs

The relation will be used to provide the reverse mapping needed for the SCCP Accounting Feature. The relation will be used to populate a dynamic table in the SMP.

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**Attribute: gtpcindx**

**Fullname:** SCCP Accounting Point Code Index

**Attribute Description** Index of the OPC being Accounted for under the SCCP OPC Accounting Feature.

**Attribute: num_gtt**

**Fullname:** Number of GTTs

**Attribute Description** Number of Global Title Translations using this OPC for the SCCP OPC Accounting Feature.

**Attribute: opc**

**Fullname:** Originating Point Code

**Attribute Description** Value of the Originating Point Code being accounted for by SCCP OPC Accounting.

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# IDX_GTT

## 1. Description

This relation will be used to reverse map the GTT index back to the GT Digit String. The relation will be used for the SCCP Accounting feature and contains the DPCs associated with the GTT Digit String and the Translation Group. The maximum number of GT DIgits is 8. There must be at least one primary digit and up to 7 fixed digits. The Translation group will be used to determine the exact number of fixed, primary and secondary digits involved.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 100 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
IDX_GTT     relid = 2408  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     gttindx     DMUNS8       (ushort: 8)     <--- key
     tran_gp     DMUNS6       (ushort: 6)
     digit1      DMUNS4HEX    (ushort: 4)
     digit2      DMUNS4HEX    (ushort: 4)
     digit3      DMUNS4HEX    (ushort: 4)
     digit4      DMUNS4HEX    (ushort: 4)
     digit5      DMUNS4HEX    (ushort: 4)
     digit6      DMUNS4HEX    (ushort: 4)
     digit7      DMUNS4HEX    (ushort: 4)
     digit8      DMUNS4HEX    (ushort: 4)
 (a) num_digit   DMUNS4       (ushort: 4)
     pdpc        DMDPCARRAY   (ulong)
     bdpc        DMDPCARRAY   (ulong)
         User, Compacted and Stored Tuple Layout    IDX_GTT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |           |   |       |       |       |       |
  0 |    gttindx    |  tran_gp  |***| digit1| digit2| digit3| digit4|
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |                       |
  4 | digit5| digit6| digit7| digit8|   a   |***********************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                              pdpc                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                              bdpc                             |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

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## 4. Population Rules for RLidx_gtt

**Relation Description:** SCCP Accounting Gt Index to GT Digit String

The relation RLidx_gtt will be used to reverse map the GTT Index back to the GTT Digit String. The relation will contain the DPC associated with the GTT Digit String as well as the translation group and number of digits involved. The maximum number of digits that can be used for an accounted GTT string is 8. There must be at least one primary digit defined. The number of fixed, primary and secondary digits will be contained in the definition of the Translation group.

**Attribute: gttindx**

**Fullname:** GT Digit String Index

**Attribute Description** This attribute will contain the index for an SCCP Accounted GTT Digit String.

**Attribute: bdpc**

**Fullname:** Backup DPC

**Attribute Description** The attribute will contain the backup Destination Point Code associated with the GTT Digit String

**Attribute: digit[*]**

**Fullname:** 1-8 Digits

**Attribute Description** These attributes contain the digits defining the Global Title Translation for SCCP Accounting.

**Attribute: num_digit**

**Fullname:** Number of Digits

**Attribute Description** This attribute will contain the number of digits defining the GT Digit String.

**Attribute: pdpc**

**Fullname:** Primary DPC

**Attribute Description** This attribute will contain the Primary Destination Point Code associated with this GTT Digit String.

**Attribute: tran_gp**

**Fullname:** Translation Group

**Attribute Description** The SCCP Translation Group used to define the digit string.

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# IDX_POL

## 1. Description

Maps policing indices and the policing type to the point code for all Policing features.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 510 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
IDX_POL     relid = 2409  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     pol_pc      DMDPC        (ulong: 24)
     index       DMUNS8       (ushort: 8)     <--- key
 (a) pol_type    DMPOLTYPE    (enum: 2)     <--- key
         User, Compacted and Stored Tuple Layout    IDX_POL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                     pol_pc                    |     index     |
    |---------------+---------------+---------------+---------------|
    |   |                                                           |
  4 | a |***********************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLidx_pol

**Relation Description:** Index to Policed Point Code Mapping Table

This relation provides the mapping from the policing indices, and policing type to the policed Point Code associated with the index (pol_pc). When a point code (RLdpc_dpci.dpc) is inserted and one of the policing indices is set to a non zero value, a tuple will be inseted into this relation to allow for a reverse mapping back to the policed point code. When a point code (RLdpc_dpci.dpc) is deleted and one or more of the policing indices is set to a non zero value, the tuple(s) associated with the policed point code must be removed.

**Attribute: index**

**Fullname:** Policing Index Value.

**Attribute Description** This attribute will be used to store the index value of the policing indices for either OPC/DPC Policing or ILS/DPC Policing.

**Attribute: pol_type**

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**Fullname:** Policing Type

**Attribute Description** This attribute is used to differentiate the different policing features indexes. Currently the pol_type enumerations are:

```
CCNULPOLTYPE - no policing
CCOPCDPC     - OPC/DPC policing
CCLSPCPOL    - Incoming Linkset/DPC Policing
```

**Attribute: pol_pc**

**Fullname:** Policed point code.

**Attribute Description** Used to indicate the Point Code that is associated with the Policing index.

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# IDX_SSN

## 1. Description

This relation will provide the information necessary for the reverse mapping of the SCCP Subsystem number index back to the subsystem number. The relation will be used to compact the SSN numbers for easier access and memory conservation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 10 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
IDX_SSN     relid = 2510  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     ssn_cnt     DMUSHORT     (ushort)
     ssn         DMUNS8       (ushort: 8)
     ssnindx     DMUNS4       (ushort: 4)     <--- key
         User, Compacted and Stored Tuple Layout    IDX_SSN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |       |       |
  0 |            ssn_cnt            |      ssn      |ssnindx|*******|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLidx_ssn

**Relation Description**
SCCP Accounting SSN Index to Subsystem number

The relation will provide the information necessary for the reverse mapping of an SCCP Subsystem number Index back to the Subsystem number. The relation will be used to compact the SSN Numbers for easier access and memory conservation.

**Attribute: ssnindx**

**Fullname:** Subsystem Number Index

**Attribute Description** Index for the Subsystem number used by the SCCP Accounting feature.

**Attribute: ssn**

**Fullname:** Subsystem Number

**Attribute Description** Subsystem number used by the SCCP Accounting feature.

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**Attribute: ssn_cnt**

**Fullname:** Count of PCs tuple using this SSN

**Attribute Description** This attribute will contain the number of SCCP Accounting tuples using this SSN Number.

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# IFTRANS

## 1. Description

Valid translation IDs for interflowed calls.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | LPFR |
| application | ACDQ |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
IFTRANS     relid = 1152  DBSTATIC   DBACC_LIN   DBPRAM    LPFR    ACDQ
     transid     DMUNS8       (ushort: 8)  <--- key
     remark      DMTEXT12     (array [ 12 ] of char )
         User, Compacted and Stored Tuple Layout    IFTRANS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |    transid    |                     remark                    |
    | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                             remark                            |
    | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             remark                            |
    | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
    |               |                                               |
 12 |     remark    |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLiftrans

**Relation Description**
Interflow translation identifiers for OSPS.

This relation will be used to define the valid translation identifiers for cooperating OSPSs. When any cooperating OSPS has a generic retrofit or update requiring translations at this OSPS, this relation will be updated with the new translation identifier. These translation identifiers are used to translate interflow messages that have changed to insure upward and downward compatibility of the differing software levels in an interflow complex. They also may be used to cause program flow to change depending on the software level.

**Attribute: transid**

**Fullname:** Translation identifier

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**Attribute Description** This attribute is a valid translation identifier for a cooperating OSPS. (values 051 - 255) The first two digits should be the generic and the last digit should be the level within the generic. For instance, the transid for the first issue of generic 5E5 will be 051. This convention will be administratively enforced but not checked by RC or ODA.

**Attribute: remark**

**Fullname:** A remark to label the translation identifier (such as the generic name)

**Attribute Description** This attribute is a remark to label the identifier (such as a generic number or point load number).

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# IIDIGITS

## 1. Description

This relation contains the II Digits Table Information digits table for use by the Long Distance Platform (LDP).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10000 |
| expected tuples | 4000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
IIDIGITS    relid = 2923  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL


    carrid      DMBCARID     (ushort: 14)
 (a) ffcf7      DMUNS2       (ushort: 2)
    trk_grp     DMGRUPNM     (ushort: 13)      <--- key
 (b) ffcf1      DMBOOL       (enum: 1)
 (c) ffcf2      DMBOOL       (enum: 1)
 (d) ffcf3      DMBOOL       (enum: 1)
    screen_x    DMSCRNIDX    (ushort: 12)
 (e) ffcf4      DMBOOL       (enum: 1)
    tnsc        DMTNSC       (ushort: 10)
    acclen      DMUNS5       (ushort: 5)
 (f) ncd        DMBOOL       (enum: 1)
    trignum     DMUNS8       (ushort: 8)
    ffcf5       DMUNS8       (ushort: 8)
    ii_digits   DMLDPIIDIG   (ushort: 7)       <--- key
    digtree     DMDA_TREE    (ushort: 7)
        User, Compacted and Stored Tuple Layout   IIDIGITS
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                           |   |                         | | | |
 0 |           carrid          | a |         trk_grp         |b|c|d|
   |---------------+---------------+---------------+---------------|
   |                       | |     |                   |         | |
 4 |        screen_x       |e|*****|        tnsc       |  acclen |f|
   |---------------+---------------+---------------+---------------|
   |               |               |             |             |   |
 8 |    trignum    |     ffcf5     |  ii_digits  |   digtree   |***|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population rules for RLiidigits

**Relation Description**

```
        Information (II) Digits Screening Table for Long Distance
```

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Platform (LDP) service

This relation contains the ANI (Automatic Number Identification) Table processing information for LDP calls when either of the relations RLldpindx, or RLtdxcartb indicate that information digit screening is to be performed.

This relation may have tuples with "wild card" key values. Tuples with wild card key values are not required, but may be used. If call processing software (CP) finds the ii_screen indicator is set in the ANI Table (RLldpindx) or LDP Carrier Table (RLtdxcartb), then (CP) will look for a match in this II Digits Table.

- First, CP looks for a tuple with the call's II digits and incoming trunk group.

- If not found, CP looks for a tuple with the call's II digits and a trunk group set to LDPANYTGRP, the "wild card" value for trunk groups.

- If still not found, CP looks for a tuple with II digits set to LDPANYIIDIG, the II digits wild card value, and a trunk group set to LDPANYTGRP.

- If still not found, CP uses the ANI feature information from the ANI Table or LDP Carrier Table, instead of from this II Digits Table.

**Attribute:**
ii_digits
**Fullname:**
information digits
**Attribute Description:**
This attribute is the information (II) digits associated with an LDP call. II digits indicate the type of call. They are received with the ANI in Equal Access Multi-Frequency (EAMF) signaling.

A value of LDPANYIIDIG is a "wild card" indicating that any II digits may be associated with the tuple.

**Attribute:**
trk_grp
**Fullname:**
trunk group number
**Attribute Description:**
This attribute is the trunk group associated with an LDP call. A value of LDPANYTGRP is a "wild card" indicating that any trunk group may be associated with the tuple.

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**Attribute:**
digtree
**Fullname:**
digit analysis selector (DAS)
**Attribute Description:**
DAS for LDP call. If digtree is not populated (that is, set to zero), then the DAS in the ANI Table or the LDP Carrier Table will be used. Otherwise, the value for digtree must be a valid line DAS.

**Attribute:**
ncd
**Fullname:**
network call denial
**Attribute Description:**
NCD for LDP call. A DBNO indicates the call is allowed; a DBYES indicates the call should be routed to final handling treatment.

**Attribute:**
acclen
**Fullname:**
account code length
**Attribute Description:**
ACCLEN for LDP call. This field indicates the number of account code digits to be entered by the caller. A value of zero indicates the caller has no account code feature assigned. A non-zero value up to 15 indicates the maximum number of digits that may be entered by the caller. The entered digits appear in the AMA record for the call, if one is generated. No validation is performed on the entered digits. The default value of this field is zero(0).

**Attribute:**
trignum
**Fullname:**
Service Control Point (SCP) trigger number
**Attribute Description:**
TRIGGER for LDP call. Contains Advanced Services Platform (ASP) trigger number value ranging from 0-255. If the field is 0, then no SCP query will be sent. If the field is 1-255, then the number will indicate the Advanced Intelligent Network (AIN) R0.1 Trigger Number to use for the SCP query.

**Attribute:**
carrid
**Fullname:**
Carrier id for fixed carrier routing

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**Attribute Description:**
Carrier id used for fixed carrier routing on FC_LATA_CONN trunks which are marked tdx_trk=Y on RC View 5.1 (RLrctgrprk). This field is optional. If the service provider does not want the call to be routed based on digit analysis then carrier id should be populated. The call will be routed via the carrier id's route index.

**Attribute:**
screen_x
**Fullname:**
screening index
**Attribute Description:**
Normally associated with a line or trunk, the screening index allows for different billing rates and routing. The default value for screen_x is zero (0), meaning not populated.

**Attribute:**
tnsc
**Fullname:**
Terminating Network Selection Code
**Attribute Description:**
Used to segregate traffic for Multifarious Intra-Network Trunks (MINT)

**Attribute:**
ffcf1
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

**Attribute:**
ffcf2
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

**Attribute:**
ffcf3
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

**Attribute:**

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ffcf4

**Fullname:**

Boolean reserved for future field feature

**Attribute Description:**

See fullname description

**Attribute:**

ffcf5

**Fullname:**

Unsigned short (8) reserved for future field feature

**Attribute Description:**

See fullname description
signaling

**Attribute:**

ffcf7

**Fullname:**

Unsigned short (2) reserved for future field feature

**Attribute Description:**

See fullname description

**Defines:**

"db/DMtnsc.h",
"db/DMcarr_val.h"

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# IIFLEXAN

## 1. Description

This relation is used for the Flexible ANI II feature (98-5E-4590). The OSPS examines this table. If the carrier ID and received ANI II digits match entries in this table, the received ANI II digits are replaced by other ANI II digits, before outpulsing.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
IIFLEXAN    relid = 3121  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL


     carrierid   DMUSHORT     (ushort)  <--- key
     rcvdaniiidigit  DMUSHORT     (ushort)      <--- key
     sentaniiidigit  DMUSHORT     (ushort)
     shortii_a   DMUSHORT     (ushort)
     shortii_b   DMUSHORT     (ushort)
     charii      DMUCHAR      (uchar)
 (a) boolii_a    DMBOOL       (enum: 1)
 (b) boolii_b    DMBOOL       (enum: 1)
 (c) boolii_c    DMBOOL       (enum: 1)
 (d) boolii_d    DMBOOL       (enum: 1)
     longii      DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   IIFLEXAN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |           carrierid           |         rcvdaniiidigit        |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |         sentaniiidigit        |           shortii_a           |
    |---------------+---------------+---------------+---------------|
    |                               |               | | | | |       |
  8 |           shortii_b           |     charii    |a|b|c|d|*******|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                            longii                             |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population rules for RLiiflexan

**Relation Description**

```
        RLiiflexan is designated for the OSPS Flex ANI II feature
        (98-5E-4690).
```

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RLiiflexan will be used for the OSPS Flex ANI II feature (98-5E-4690). The carrierid and rcvdaniiidigit are the 2 keys. The sentaniiidigit is an attribute.

The OSPS examines this table. If the carrier ID and received ANI II digits match entries in this table, the received ANI II digits are replaced by other ANI II digits, before outpulsing.

**Attribute:**
carrierid
**Fullname:**
Carrier Identification
**Attribute Description:**
This field is used to specify the Carrier Identification Code.

**Attribute:**
rcvdaniiidigit
**Fullname:**
Received ANI II Digits
**Attribute Description:**
This attribute is used to specify the ANI II information digits received by the OSPS in incoming signaling.

**Attribute:**
sentaniiidigit
**Fullname:**
Sent ANI II Digits
**Attribute Description:**
This attribute is used to specify the ANI information II digits that are sent in outgoing signaling from the OSPS on TRANS 0 SEND calls and on ISP calls not served at the OSPS.

**Attribute:**
longii
**Fullname:**
unsigned long attribute.
**Attribute Description:**
Unused.

**Attribute:**
shortii_a
**Fullname:**
first unsigned short attribute.
**Attribute Description:**

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Unused.

**Attribute:**
shortii_b
**Fullname:**
second unsigned short attribute.
**Attribute Description:**
Unused.

**Attribute:**
charii
**Fullname:**
unsigned char attribute.
**Attribute Description:**
Unused.

**Attribute:**
boolii_a
**Fullname:**
first boolean attribute.
**Attribute Description:**
Unused.

**Attribute:**
boolii_b
**Fullname:**
second boolean attribute.
**Attribute Description:**
Unused.

**Attribute:**
boolii_c
**Fullname:**
third boolean attribute.
**Attribute Description:**
Unused.

**Attribute:**
boolii_d
**Fullname:**
fourth boolean attribute.
**Attribute Description:**
Unused.

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# ILSD_POL

## 1. Description

This relation contains the Incoming Linkset/ Destination Point Code Policing matrix.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 256 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| delete trigger | DBYES |
| update trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
ILSD_POL    relid = 2511  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     lsnum       DMUNS8       (ushort: 8)     <--- key
     spare       DMUNS8       (ushort: 8)
     lspmp00     DMHEX16      (ushort)
     lspmp01     DMHEX16      (ushort)
     lspmp02     DMHEX16      (ushort)
     lspmp03     DMHEX16      (ushort)
     lspmp04     DMHEX16      (ushort)
     lspmp05     DMHEX16      (ushort)
     lspmp06     DMHEX16      (ushort)
     lspmp07     DMHEX16      (ushort)
     lspmp08     DMHEX16      (ushort)
     lspmp09     DMHEX16      (ushort)
     lspmp10     DMHEX16      (ushort)
     lspmp11     DMHEX16      (ushort)
     lspmp12     DMHEX16      (ushort)
     lspmp13     DMHEX16      (ushort)
     lspmp14     DMHEX16      (ushort)
     lspmp15     DMHEX16      (ushort)
         User, Compacted and Stored Tuple Layout   ILSD_POL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |     lsnum     |     spare     |            lspmp00            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            lspmp01            |            lspmp02            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            lspmp03            |            lspmp04            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |            lspmp05            |            lspmp06            |
```

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```
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 16 |            lspmp07            |            lspmp08            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 20 |            lspmp09            |            lspmp10            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 24 |            lspmp11            |            lspmp12            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 28 |            lspmp13            |            lspmp14            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 32 |            lspmp15            |*******************************|
    |---------------+---------------+---------------+---------------|
      ( 36 bytes )
domain alILSD_P   struct  (3 sub-attributes)
        lsnum       .2.fake      (ushort)
        spare       .3.fake      (ushort)
        Structure Layout      alILSD_POL
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |     lsnum     |     spare     |             lspmp             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                             lspmp                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             lspmp                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                             lspmp                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                             lspmp                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                             lspmp                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 24 |                             lspmp                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 28 |                             lspmp                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 32 |              lspmp            |*******************************|
    |---------------+---------------+---------------+---------------|
      ( 36 bytes )
```

## 4. Population Rules for RLilsd_pol

**Relation Description**
Incoming Linkset/Destination Point Code Policing Matrix

The relation RLilsd_pol will contain the linkset number which was marked as being ILS/DPC Policed (key into the relation), and a bitmap of all possible DPCs (indexed by the lspcindx attribute found in RLdpc_dpci). The relation is required for the i7866 ILS/DPC STP Policing Feature. RLilsd_pol will link an Incoming Linkset with all policed DPCs associated with the linkset.

**Attribute: lsnum**

**Fullname:** Incoming Linkset Number

**Attribute Description** This is used as key into the RLilsd_pol table and represents a Linkset that has been marked as a Policed Linkset in the ILS/DPC Policing Feature.

**Attribute: lspmp[*]**

**Fullname:** ILS/DPC Policed destination point codes.

**Attribute Description** This is a 16 element array containing a Hex 16 bit value. The attributes will hold the ILS/DPC Policing status bits for the policed ILS/DPC pairs. Each bit in this bitmap is used to represent the ILS/DPC status bits. The value of bit 0 in the attribute lspmp00, is not used for a status bit. A set bit in the attributes will represent the Allowed status for this particular point code. An unset bit will represent the Prohibited state.

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# IMCOSTAT

## 1. Description

Cutover status of IM's residing in IM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 255 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |

## 3. Field Layout

```
IMCOSTAT    relid = 259   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    GCRTG
     alt_rte     DMSYSID      (short)
     im          DMMODULE     (ushort: 8)  <--- key
 (a) precut      DMCOSTATE    (enum: 1)
 (b) postcut     DMCOSTATE    (enum: 1)
        User, Compacted and Stored Tuple Layout   IMCOSTAT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |               | | |           |
  0 |            alt_rte             |       im      |a|b|***********|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLimcostat

**Relation Description**
Cutover status of IM's residing in the office.

There are three types of office cutovers: flash cut, gradual cut, and large terminal growth cut. In a flash cut all lines in the office will be put into service at the same time. In a gradual cut lines will be put into service by, SM(s) (singularly or groups of SM's) or 1000-Line groups. Large terminal growth is a form of gradual cut. In either case there initially must be a tuple in this relation for each SM in the office.

An example population for a 'new' office for a gradual cut would be as follows: .in+.5i

| IM | PRECUT | POSTCUT | ALT_RTE |
|---|---|---|---|
| 3 | coinactive | coinactive | 10* |
| 5 | coinactive | coinactive | 144** |
| 7 | coinactive | coinactive | 146** |

* Where 10 is an RI resulting in reorder tone as treatment to a customer call.

** Where 144 and 146 are RI's resulting in routing the call back to the old office that serves the subscriber.

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Note: All tuples exist in the CMP but only one would exist in an SM (except for RSM's - see distribution rules.)

The data in this relation is only operative when the cutover program has been activated. For more information refer to ATT practice ATT 5D5-105-200 "Precutover and Cutover Procedures".

**Attribute: im**

**Fullname:** interface module number

**Attribute Description** The attribute im implies SM, LSM, HSM, RSM, ORM, TRM.

**Attribute: precut**

**Fullname:** active/inactive line status in precut office state

**Attribute Description** The coactive or coinactive line state on the IM when the IM is in the Precut office state. This should be populated as coinactive for a 'new' office for both flash and gradual office cutovers. For large terminal growth this should be populated as coactive for all SM's already in service and coinactive for all SM's not in service.

**Attribute: postcut**

**Fullname:** active/inactive line status in postcut office state

**Attribute Description** The coactive or coinactive line state on the IM when the IM is in the Postcut office state. This should be populated as coactive for a 'new' office for flash cut. This should be populated as coinactive for a 'new' office for gradual cut. For large terminal growth this should be populated as coactive for all SM's already in service and coinactive for all SM's not in service.

**Attribute: alt_rte**

**Fullname:** Alternate Route Index

**Attribute Description** This is an alternate RI used by RTA to route calls attempting to terminate to an inactive line (lines with a coinactive line state). This route index may be used to route to an announcement, reorder tone or outgoing trunk to the 'old' office.

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# IMESP

## 1. Description

Interface module essential service protection (IMESP) masks. This is a 2-byte tuple relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3600 |
| expected number of tuples | 17 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 9 |
| ks key store | AUTO |
| permutation type | perm |

## 3. Field Layout

```
IMESP       relid = 245   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     grpname     DMUNS16      (ushort)  <--- key, not stored
     espmask     DMUCHAR      (uchar)
         User and Compacted Tuple Layout  IMESP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            grpname            |*******************************|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  4 |    espmask    |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     espmask     DMUCHAR      (uchar)
           Stored Tuple Layout    IMESP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |    espmask    |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLimesp

**Relation Description**
Switching module (SM) essential service protection (ESP) masks.

```
Interface Module Essential Service Protection Masks
TUPLE SEMANTICS:
grpname (KEY)   - group name (see the following appropriate section)
espmask         - 8 bit mask (bits zero through seven)
                  bit = 1 turns ESP ON for corresponding line
                  bit = 0 turns ESP OFF for corresponding line
                        corresponding bit
```

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```
                        in espmask
                  esl   (see appropriate
                  value section here)
                  ----- -----------------
                  DBYES        1
                  DBNO         0
**********************************************************************
RLimesp (LU1 and LU4)
grpname The key for LU1 and LU4 is generated as follows:
----------------------------------------------------------------
|           |                        |               | G |       |
| 0   0   0 |       UNIT             |     GRID      | R | SW>>1 |
|           |                        |               | P |       |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
15  14  13  12  11  10   9   8   7   6   5   4   3   2   1   0

          UNIT - The unit number 0 through 42,
                 found in RLcktdata.unit
          GRID - Grid number in upper byte of the circuit
                 index subtracted by 3
                 (RLcktdata.ckt_indx{8:15} - 3)
          GRP  - Group number is located in port index
                 (RLfc_porttyp.port_indx{5})
          SW   - Upper two bits of the switch number in the
                 port index (RLfc_porttyp.port_indx{3:4})
espmask   The espmask attribute contains 8 one-bit

          masks, one for each line in the group.  Bit 0
          contains the mask for Line 0 of the group.... and
          bit 7 contains the mask for Line 7 of the group.
          Bit 0 is the low order bit.  The Line number
          within the group serves as an index to the mask
          bit for that Line.  The Line number is found in
          bit positions 0-2 of the LEN.
          To prevent ESP Lines from blocking each other, there
          should be only 2 ESP Lines per group.  Furthermore,
          there should be at most one ESP line in Lines 4-7
          of the group and on ESP Line in Lines 0-3 of the group.
Example:
      If we wished to construct the key for an LU1 on an "SM",
      which is unit # 4, on grid 6 (as determined by the previous
      formula, group 1 and switch 2 would be:
      0  0  0  0  0  0  1  0  0  0  1  1  0  1  1  0   Key
      ^  ^  ^  ^  ^  ^  ^  ^  ^  ^  ^  ^  ^  ^  ^  ^
      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
      15 14 13 12 11 10 9  8  7  6  5  4  3  2  1  0   Bit #
**********************************************************************
      RLimesp (LU2 and LU3)
grpname           The key for LU2 and LU3 is generated as follows:
----------------------------------------------------------------
|           |                        |               | G |       |
| 0   0   0 |       UNIT             |     GRID      | R | SW>>1 |
|           |                        |               | P |       |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
```

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```
15  14  13  12  11  10   9   8   7   6   5   4   3   2   1   0

          UNIT    - The unit number 0 through 42,
                    found RLcktdata.unit
          GRID    - Grid number in upper byte of the circuit
                    index subtracted by 3
                    (RLcktdata.ckt_indx{8:15} - 3)
          GRP     - The group number is populated different
                    from LU1. Group number is located in the
                    circuit index (RLcktdata.ckt_indx{5})
          SW      - Upper two bits of the switch number in the
                    port index (RLfc_porttyp.port_indx{3:4})

espmask   The espmask attribute contains 8 one-bit
          masks, one for each line in the group.  Bit 0
          contains the mask for Line 0 of the group.... and
          bit 7 contains the mask for Line 7 of the group.
          Bit 0 is the low order bit.  The Line number
          within the group serves as an index to the mask
          bit for that Line.  The Line number is found in
          bit positions 0-2 of the PORT.
          To prevent ESP Lines from blocking each other, there
          should be only 2 ESP Lines per group.  Furthermore,
          there should be at most one ESP line in Lines 4-7
          of the group and on ESP Line in Lines 0-3 of the group.
**********************************************************************
          RLimesp ((R)ISLU-Z, (R)ISLU-T, and (R)ISLU-U)
grpname   The key to RLimesp is grpname, which is
          generated as follows:
----------------------------------------------------------------
|           |                       |               |   |       |
| 0   1   0 |       UNIT            |     LGC       | 0 |CRD>>3 |
|           |                       |               |   |       |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
15  14  13  12  11  10   9   8   7   6   5   4   3   2   1   0

           UNIT - The unit number 0 through 7,
                  found RLcktdata.unit
           LGC  - Line grid card, located in the top byte of
                  the circuit index subtracted by 3
                  (RLcktdata.ckt_indx{8:15}-3)
           CRD  - Card number shifted right 3 bits.
                  (RLcktdata.ckt_indx{3:4})
espmask   The espmask attribute contains 8 one-bit
          masks, one for each card in the group.  Bit 0
          contains the mask for card 0 of the group.... and
          bit 7 contains the mask for card 7 of the group.
          Bit 0 is the low order bit.  In other words, the bit
           representing the port is bits 0-2 of the portname.
**********************************************************************
          RLimesp (ISLU2-T and ISLU2-U)
grpname   The key to RLimesp is grpname, which is
          generated as follows:
----------------------------------------------------------------
```

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```
|           |                       |              |           |
| 0   1   U |       UNIT            |       LGC    |   BOARD   |
|           |                       |              |           |
|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
15  14  13  12  11  10   9   8   7   6   5   4   3   2   1   0
          U      - Used for Z-16 line boards if implemented.
          UNIT   - The unit number 0 through 42,
                   found RLcktdata.unit
          LGC    - Line group number 0 through 15.
          BOARD  - Line board number 0 through 7.

espmask - The espmask attribute contains 8 one-bit
          masks, one for each circuit on the board.  Bit 0
          contains the mask for circuit 0 of the board.... and
          bit 7 contains the mask for circuit 7 of the board.
          Bit 0 is the low order bit.  In other words,
          the bit representing the port is bits 0-2 of the portname.
          Note that for ISLU2, the group size is equal to
          the number of circuits on a board.  This is not
          normally the case for this relation.
**********************************************************************
RLimesp (SLC 96 on DCLU0 only)
DESCRIPTION:
       Indicates the Essential Service Protection (ESP) status
       (that is, ON or OFF) for each SLC 96 line.
       There are no restrictions
       as to the number of SLC 96 lines with ESP ON or
       their positions in the SLC 96 RT. All ESP lines are treated
       equally even if they are adjacent (that is blocking will not occur
       due to the selection of SLC 96 ESP lines).
grpname
       The key to RLimesp is grpname, which is generated as follows:
-----------------------------------------------------------------
|                    SLC 96 ESP KEY (Mode 1)                    |
|---------------------------------------------------------------|
|           |                       | G |       | B |       | S |
| 1   0   0 |        UNIT  NO       | R |INT-RT | N | BYTE  | H |
|           |                       | P |  NO.  | K |       | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
15  14  13  12  11  10   9   8   7   6   5   4   3   2   1   0
-----------------------------------------------------------------
|                    SLC 96 ESP KEY (Mode 2)                    |
|---------------------------------------------------------------|
|           |                       | G |       | B |           |
| 1   0   0 |        UNIT           | R |INT-RT | N |   BYTE    |
|           |                       | P |  NO.  | K |           |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
15  14  13  12  11  10   9   8   7   6   5   4   3   2   1   0
-----------------------------------------------------------------
|                 SLC 96 ESP KEY (Mode 2 Special)               |
|---------------------------------------------------------------|
|           |                       | G |       | B |           |
| 1   0   0 |        UNIT           | R |INT-RT | N | 1   1   0 |
|           |                       | P |  NO.  | K |           |
```

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```
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
15  14  13  12  11  10   9   8   7   6   5   4   3   2   1   0
    UNIT    - The unit number 0 through 42, found in RLcktdata.unit
    GRP = (RT - 1) / 3
    INT-RT = (RT - 1) modulus 3
    For convenience, we introduce the following variable:
    LINEMINUS1 = LINE - 1
    BNK = LINEMINUS1 / 48
    (BNK = 0 for shelves A and B,  BNK = 1 for shelves C and D)
    BYTE is the index to line group containing the line - see the following

MODE 1 specifics:
        T1TS = [ (LINEMINUS1 modulus 12) * 2 ]
             + [ (LINEMINUS1 / 12) & 0x1 ]
        SHF = (LINEMINUS1 / 24) & 0x1
              (SHF = 0 for shelves A and C,  SHF = 1 for shelves B and D)
        BYTE = T1TS / 6

MODE 2 specifics:
        TAU = PORT_INDEX & 0x003F
        or, if PORT_INDEX is not available, TAU layout is as follows:
            -------------------------
            |       A       | B | C |
            |---|---|---|---|---|---|
              5   4   3   2   1   0
                where
                A = LINEMINUS1 modulus 12
                B = (LINEMINUS1 / 12) & 0x1
                C = (LINEMINUS1 / 24) & 0x1
        BYTE =  5 if TAU = 0
                5 if TAU = 1
                (TAU-2) / 8  if TAU = 2 to 47
        SPECIAL BYTE = 6
espmask
        espmask provides bits for 8 ports, but not all bits are used for
        mode 1.  Which bit is used for a port depends on the mode.
        MODE 1:
                BIT position in espmask = f(INDEX)
                    where:
                    INDEX = T1TS modulus 6
                    INDEX  BIT
                      0 ->  1
                      1 ->  2
                      2 ->  3
                      3 ->  5
                      4 ->  6
                      5 ->  7
        MODE 2:
                BIT position in espmask = 1 if TAU = 0
                                          0 if TAU = 1
                                          7 - ((TAU - 2) modulus 8)
                                                   if TAU = 2 to 47
                SPECIAL: BIT position = f(TAU)
                    TAU  BIT
```

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```
                    43 -> 0
                    42 -> 1
                    35 -> 2
                    34 -> 3
                    27 -> 4
                    26 -> 5
                    19 -> 6
                    18 -> 7
*************************************************************************
        RLimesp (TR8 and TR303 RTs on IDCU)
DESCRIPTION:
       Indicates the Essential Service Protection (ESP) status (that is ON
       or OFF) for each TR8 or TR303 RT line.
       There are no restrictions
       as to the number of RT lines with ESP ON or
       their positions in the RT. All ESP lines are treated
       equally even if they are adjacent (that is blocking will not occur
       due to the selection of RT ESP lines).
grpname
       The key to RLimesp is grpname, (0xC001 - 0xDFFF) which is
       generated as follows:
-----------------------------------------------------------------
|           |                                                   |
| 1   1   0 |             LOGICAL  GSDB                         |
|           |                                                   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
15  14  13  12  11  10   9   8   7   6   5   4   3   2   1   0

LOGICAL GSDB (bits 0-12) - number 1 through 8191 (0x1FFF)
                           (Unique for each IDCU GSDB/SM)
                           Zero (0) is illegal.
                           The grpname is located in
                           RLgrp2ckt.gsdb_grp.
         For each group of 8 ports on an RT terminated by IDCU,
         no RLimesp tuple will exist if none of those ports have
         ESP.
espmask
         If one or more of the ports in a group of 8 have
         ESP, a tuple will exist in RLimesp with one or more of
         the bits set in the espmask attribute.  Each bit set
         represents a port with ESP. Each bit cleared represents
         a port without ESP.
         For IDCU, the algorithm for setting a particular bit
         in the espmask attribute for a given port is:
            new_espmask = old_espmask | (1 << (port_indx & 0x7))
```

**Attribute: grpname**

**Fullname:** Port group name

**Attribute Description** The key to this relation is 'grpname', which is generated in different ways depending on the type of unit the line resides on. The following sections tell how the key is generated. The RLimesp key is defined the same way as the RLgsdb key.

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**Attribute: espmask**

**Fullname:** One byte per group ('on' means ESP is enabled for this port)

**Attribute Description** A tuple in the relation RLimesp only needs to exist if a line in the group has ESP. The espmask attribute indicates which lines have ESP. ESP lines receive priority originating treatment during severe peak traffic conditions if the user has enabled ESP. Each line in a group will have a different bit for it in 'espmask'. Which bit a line uses is dependent on its relative position in the group and also the type of unit the line resides on. Note: The attribute, espmask will logically be a projection of the RLrc_oeinfo 'esl' attribute for analog lines. ISDN lines with ESP do not have RLrc_oeinfo.esl set to DBYES.

**Defines:**"db/DMcircuit.h"

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# IMTGRPS

## 1. Description

Interface module trunk group numbers.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8191 |
| expected tuples in relation | 15 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 44 |
| trigger function | MSimdbtrig |
| insert trigger | DBYES |
| update trigger | DBNO |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
IMTGRPS     relid = 94    DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     tgroup      DMGRUPNM     (ushort: 13)     <--- key
 (a) featgrp     DMFEATGRP    (enum: 2)
 (b) free_ans    DMBOOL       (enum: 1)
 (c) inc_tndwnk  DMBOOL       (enum: 1)
     carrid      DMCIC4       (array [ 4 ] of char )
         User, Compacted and Stored Tuple Layout    IMTGRPS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           |   | | |             |               |
  0 |           tgroup          | a |b|c|*************|     carrid    |
    | - - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                   |               |
  4 |                       carrid                      |***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLimtgrps

**Relation Description:** SM trunk groups.

SM trunk group numbers. This relation exists in each SM and has a tuple for each unique feature group B (FGB) and feature group D (FGD) trunk group represented on the SM. RLimtgrps (for DCTU trunk groups) DESCRIPTION: The population rules for RLIMTGRPS regarding the directly connected test unit (DCTU) are defined for DCTU trunk groups. NOTE:

(1) The DCTU trunk group must be defined in relation RLRT_TRKG and RLRCTGPRK. See the population rules for RLrt_trkg and RLrctgprk.

(2) The DCTU trunk group is a group of logical test ports (LTPs) that have a one-to-one association with the test equipment DCTUPORTs that are part of the DCTU. This trunk group never leaves the office and there must never be a 'carrid associated with a DCTU trunk group. The null default value must be used.

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```
QUANTITY OF TUPLES:
One tuple representing a DCTU trunk group with at
least one member defined in the SM where the relation is populated.
TUPLE  SEMANTICS:
tgroup (KEY)    - DCTU trunk group number must be corresponding
                  entry in RLRT_TRKG, RLRCTGRPRK.
carrid          - NOT APPLICABLE, use null default.
featgrp         - NOT APPLICABLE, use null default.
free_ans        - Don't care for DCTU.
inc_tndwnk      - DBNO.
*********************************************************************
RLimtgrps (for DSU2-RAF/SAS Port Groups)
DESCRIPTION:
This relation must be populated for every digital service  unit model 2 (DSU2)-record
ed announcement facility (RAF) and/or service announcement  system (SAS) port group w
ith members on one or more SM.
 NOTE: The DSU2-RAF/SAS port group must be defined in relation RLRT_TRKG.
       See the population rules for RLrt_trkg.
QUANTITY OF TUPLES:
One tuple for each DSU2-RAF/SAS port group on each
SM where DSU2-RAF/SAS port group members in the given
DSU2-RAF/SAS port group  are defined.

TUPLE SEMANTICS:
tgroup (KEY)    - DSU2-RAF/SAS port group number.  Must be
                  corresponding entry in RLRT_TRKG.
carrid          - NOT APPLICABLE, use null default
featgrp         - NOT APPLICABLE, use null default
free_ans        - DBNO
inc_tndwnk      - DBNO
```

**Attribute: tgroup**

**Fullname:** Trunk group

**Attribute Description** Trunk group number, one tuple per trunk group.

**Attribute: carrid**

**Fullname:** Carrier identifier

**Attribute Description** Indicates the carrier identifier. It is a four character string, where each of the characters can be '0' through '9'. The carrid attribute must be specified when the trunk group is directly connected to a carrier, and only at that time. The default is a null string identified by \0.

**Attribute: featgrp**

**Fullname:** Feature group carrier type

**Attribute Description** Flags carrier ID as FGB_CARR if feature group B carrier or FGD_CARR if feature group D carrier.

**Attribute: free_ans**

**Fullname:** Free answer

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**Attribute Description** Indicates whether answer supervision will be returned on the trunk group for calls to a free line. It must be set to DBYES for trunk groups directly connected to a carrier, and for trunk groups which handle carrier traffic and serve offices with free line service.

**Attribute: inc_tndwnk**

**Fullname:** Incoming (INC) tandem wink

**Attribute Description** Indicates whether the first wink received from the INC carrier at an access tandem will be relayed to the end office. The default is DBNO.

**Attribute: pp_trkind**

**Fullname:** Packet Pipe Trunk Indicator

**Attribute Description** Indicates whether a trunk group is a packet pipe (PP) trunk group or not.

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# IMTRKS

## 1. Description

Defines each end of each inter-module trunk group member.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 24192 |
| expected tuples in relation | 74 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 75 |
| ks key store | AUTO |
| cluster | 24 |

## 3. Field Layout

```
IMTRKS      relid = 1087  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     grpnum      DMGRUPNM     (ushort: 11)  <--- key, not stored
     member      DMMEM        (ushort: 12)  <--- key, not stored
     term_mem    DMMEM        (ushort: 12)
     term_grp    DMGRUPNM     (ushort: 11)
     term_mod    DMMODULE     (ushort: 8)
         User and Compacted Tuple Layout     IMTRKS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |       |                       |       |
  0 |        grpnum         |*******|         member        |*******|
    |---------------+---------------+---------------+---------------|
    |                         |     |                       |       |
  4 |        term_mem         |*****|       term_grp        |*******|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  8 |    term_mod   |***********************************************|
    |---------------+---------------+---------------+---------------|
      ( 12 bytes )
     term_mem    DMMEM        (ushort: 12)
     term_grp    DMGRUPNM     (ushort: 11)
     term_mod    DMMODULE     (ushort: 8)
           Stored Tuple Layout   IMTRKS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |       |                       |       |
  0 |        term_mem       |*******|       term_grp        |*******|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  4 |    term_mod   |***********************************************|
    |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population Rules for RLimtrks

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**Relation Description**
Inter-module trunks

Defines each terminating end for inter-module trunk group members.

Consistency checks
---

For each inter-module trunk group member tuple inserted in a module office-dependent data (ODD), there must be a corresponding tuple inserted in the ODD of the module associated with the other end of this trunk group member (such as a tuple inserted into the ODD of module X with key RLimtrks.grpnum and RLimtrks.member should also result in a tuple being inserted into module RLimtrks.term_mod with key RLimtrks.term_grp and RLimtrks.term_mem). In other words, each tuple in module X corresponding to an inter-module trunk group member should have a mirror image tuple in the ODD of the module on the other end of the trunk pointing back to module X.

**Attribute: grpnum**

**Fullname:** Trunk group number

**Attribute Description** Trunk group number associated with the inter-module trunk.

**Attribute: member**

**Fullname:** Trunk group member

**Attribute Description** Trunk group member associated with an inter-module trunk.

**Attribute: term_mod**

**Fullname:** Terminating module number

**Attribute Description** Module number associated with the other end (that is, other trunk member) of the indicated trunk group and member number. Indicates where the other end of this inter-module trunk group member physically terminates.

**Attribute: term_grp**

**Fullname:** Terminating trunk group number

**Attribute Description** Trunk group number associated with the other end of this trunk group and member.

**Attribute: term_mem**

**Fullname:** Terminating trunk group member

**Attribute Description** Trunk group member associated with the other end of this trunk group and member.

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# IND_DPC

## 1. Description

This relation provides for SCCP a mapping from a Point Code/Subsystem Number/Network Number Index to the Point Code, Subsystem Number, and Network Number. It also provides the backup psn_index.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 4096 |
| expected number of tuples | 256 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCind_dpc |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ks key store or not | DBNO |

## 3. Field Layout

```
IND_DPC     relid = 2512  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     psn_index   DMUNS12      (ushort: 12)     <--- key, not stored
     dpc         DMPT_CODE    (ulong: 24)
     ssn         DMUNS8       (ushort: 8)
     bck_index   DMUNS12      (ushort: 12)
 (a) tcap_cv     DMBOOL       (enum: 1)
     net_num     DMUNS5       (ushort: 5)
         User and Compacted Tuple Layout    IND_DPC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
  0 |       psn_index       |***************************************|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  4 |                     dpc                       |      ssn      |
    |---------------+---------------+---------------+---------------|
    |                       | |     |         |                     |
  8 |       bck_index       |a|*****| net_num |*********************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
     dpc         DMPT_CODE    (ulong: 24)
     ssn         DMUNS8       (ushort: 8)
     bck_index   DMUNS12      (ushort: 12)
 (a) tcap_cv     DMBOOL       (enum: 1)
     net_num     DMUNS5       (ushort: 5)
           Stored Tuple Layout      IND_DPC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                     dpc                       |      ssn      |
    |---------------+---------------+---------------+---------------|
```

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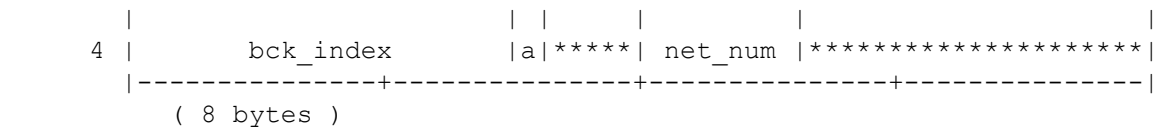


## 4. Population Rules for RLind_dpc

**Relation Description**
Point Code/Subsystem Number/Network Number Index to Destination Point Code Mapping

This relation maps from a point code/subsystem number/network number index to a destination point code, a subsystem number, and a network number along with a backup PSN_INDEX.

**Attribute: psn_index**

**Fullname:** Point Code/Subsystem Number/Network Number Index

**Attribute Description** This attribute specifies an index representing a point code, subsystem number, and network number tuple.

**Attribute: dpc**

**Fullname:** Destination Point Code

**Attribute Description** This attribute specifies a standardization sector (SS7) International or SS7 National destination point code.

**Attribute: ssn**

**Fullname:** Subsystem Number

**Attribute Description** This attribute specifies a subsystem number on a particular destination point code.

**Attribute: net_num**

**Fullname:** SCCP Network Number

**Attribute Description** This attribute is a mapping from Global SM number to an index called network number.

**Attribute: bck_index**

**Fullname:** Backup PSN Index

**Attribute Description** This attributes specifies a backup point code/subsystem number/network number to route messages to in the case this index is inaccessible.

**Attribute: tcap_cv**

**Fullname:** TCAP Conversion Flag

**Attribute Description** This attribute indicates when to perform TCAP Conversion.

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# INDX

## 1. Description

This is the index assignment relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 64 |
| expected number of tuples | 17 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCindx |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ks key store or not | AUTO |

## 3. Field Layout

```
INDX        relid = 2363  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


    idx_name    DMIDXSET     (enum: 6) <--- key, not stored
    max_idx     DMUNS16      (ushort)
        User and Compacted Tuple Layout   INDX
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |           |                                                   |
 0 |  idx_name |***************************************************|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |            max_idx            |*******************************|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )


    max_idx     DMUNS16      (ushort)
          Stored Tuple Layout     INDX
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            max_idx            |*******************************|
   |---------------+---------------+---------------+---------------|
      ( 2 bytes )
```

## 4. Population rules for RLindx

**Relation Description**

```
        Index assignment
```

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This relation is used strictly as an administrative relation to handle the assignment of indexes into various relations and tables for National Standardization Sector (SS7) (formerly CCITT7) and International SS7 Message Transfer Part (MTP). The exceptions are the CCS indices: CCACPCTOT, CCDPCINDX, CCDPCIMAX, CCAPCINDX, CCTRKINDX and CCTRKIMAX), where the assignment of indexes uses another method (See RLrc_qidx.R poprules). These values will be used to keet track of the number of CCS dpcs, apcs, trunks on the global SM and the maximum index used.

This relation is partitioned by global SM and must be populated independently in each Global SM. This relation resides in the National SS7 Global SM and the International SS7 Global SM. These Global SMs are designated by RLgsm_opc.

**Attribute:**
idx_name
**Fullname:**
Name of the index
**Attribute Description:**
The type of application that the index is used for.

**Attribute:**
max_idx
**Fullname:**
Maximum index value
**Attribute Description:**
This attribute holds the last used index for a particular idx_name.

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# INTCNF_R

## 1. Description

This is the root storage relation for RLipintcnf.G virtual update relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 836 |
| expected tuples | 8 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTORAGE |
| foldtype | DBGC31 |

## 3. Field Layout

```
INTCNF_R    relid = 3160  DBSTORAGE  DBACC_DHSH  DBPRAM    FP      NULL


    portnum     DMPORT       (ushort)  <--- key
    indx_name   DMUSHORT     (ushort)
    max_mtu     DMUSHORT     (ushort)
    ipaddrptr1  DMGK14       (ulong: 14)
(a) calea_in_use  DMBOOL       (enum: 1)
    ipaddrptr2  DMGK14       (ulong: 14)
    ipaddrptr3  DMGK14       (ulong: 14)
    ipaddrptr4  DMGK14       (ulong: 14)
    ipaddrptr5  DMGK14       (ulong: 14)
    snmptr1     DMGK14       (ulong: 14)
    snmptr2     DMGK14       (ulong: 14)
    snmptr3     DMGK14       (ulong: 14)
    snmptr4     DMGK14       (ulong: 14)
    snmptr5     DMGK14       (ulong: 14)
    mptr        DMGK14       (ulong: 14)
    lcn         DMPS_LCN     (uchar: 7)        <--- key
        User, Compacted and Stored Tuple Layout   INTCNF_R
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            portnum            |           indx_name           |
   |---------------+---------------+---------------+---------------|
   |                               |                           | | |
 4 |            max_mtu            |         ipaddrptr1        |a|*|
   |---------------+---------------+---------------+---------------|
   |                               |                           |   |
 8 |         ipaddrptr2            |         ipaddrptr3        |***|***|
   |---------------+---------------+---------------+---------------|
   |                               |                           |   |
12 |         ipaddrptr4            |         ipaddrptr5        |***|***|
   |---------------+---------------+---------------+---------------|
   |                               |                           |   |
16 |          snmptr1              |          snmptr2          |***|***|
   |---------------+---------------+---------------+---------------|
```

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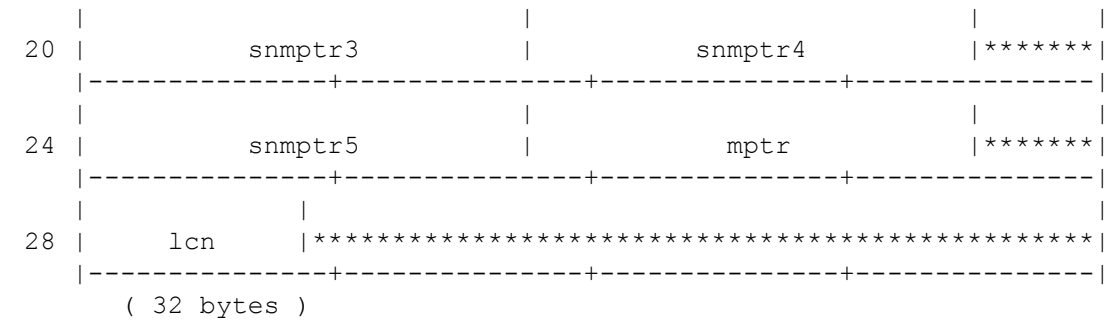


## 4. Population rules for RLintcnf_r

### Relation Description

There are no population rules for this relation.

# INTERFLW

## 1. Description

Interflow related information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFR |
| application | ACDQ |
| relation type | DBSTATIC |
| ks key store | DBNO |
| head table size | 512 |
| data page size | 512 |
| page level | 1 |
| trigger function | ACtinterflw |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction | DBNO |

## 3. Field Layout

```
INTERFLW    relid = 1147  DBSTATIC   DBACC_CIND  DBPRAM    LPFR    ACDQ
     i_srv_tms   DMUSHORT     (ushort)
     ospsff1     DMUSHORT     (ushort)
     serv_tm     DMUNS8       (ushort: 8)  <--- key
     iserv_tm    DMUNS8       (ushort: 8)
 (a) int_destid  DMUNS5       (ushort: 5)
     i_count     DMUNS5       (ushort: 5)
 (b) if_on       DMBOOL       (enum: 1)
 (c) rr_on       DMBOOL       (enum: 1)
 (d) ospsff2     DMBOOL       (enum: 1)
 (e) ospsff3     DMBOOL       (enum: 1)
 (f) ospsff4     DMBOOL       (enum: 1)
 (g) ospsff5     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   INTERFLW
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |           i_srv_tms           |            ospsff1            |
   |---------------+---------------+---------------+---------------|
   |               |               |         |         | | | | | | |
 4 |    serv_tm    |    iserv_tm   |    a    | i_count |b|c|d|e|f|g|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population Rules for RLinterflw

**Relation Description**
Interflow information for OSPS.

This relation will be used to determine if interflow is activated for a particular serving team. Provides mapping of serving teams to interflow serving teams and indicates the activation status. Also used for Non-T&A interflow

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(re-routing).

**Attribute: serv_tm**

**Fullname:** serving team

**Attribute Description** Indicates the OSPS serving team number.

**Attribute: iserv_tm**

**Fullname:** interflow serving team

**Attribute Description** Indicates the interflow serving team number.

**Attribute: if_on**

**Fullname:** Interflow on (activated) indicator.

**Attribute Description** Indicates if interflow is activated for the key serv_tm.

**Attribute: int_destid**

**Fullname:** Reroute internal destination ID.

**Attribute Description** Indicates the internal destination ID used for rerouting of DA and Non-ISP trunk calls to a VDT.

**Attribute: rr_on**

**Fullname:** Reroute on (activated) indicator.

**Attribute Description** Indicates that Non-T&A Interflow (reroute) is activated for the key serv_tm.

**Attribute: i_srv_tms**

**Fullname:** Interflow serving teams

**Attribute Description** Bit mapping of 16 interflow teams.

**Attribute: i_count**

**Fullname:** Interflow count

**Attribute Description** Count of interflow teams in i_srv_tms.

**Attribute: ospsff1**

**Fullname:** OSPS spare field 1

**Attribute Description** Spare for future development.

**Attribute: ospsff2**

**Fullname:** OSPS spare field 2

**Attribute Description** Spare for future development.

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**Attribute: ospsff3**

**Fullname:** OSPS spare field 3

**Attribute Description** Spare for future development.

**Attribute: ospsff4**

**Fullname:** OSPS spare field 4

**Attribute Description** Spare for future development.

**Attribute: ospsff5**

**Fullname:** OSPS spare field 5

**Attribute Description** Spare for future development.

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# INTFNAM

## 1. Description

This is the interface name relation. This relation contains all names of local external interfaces used for IP routing to external networks. It is used by RC/V to verify uniqueness and to assign an index to each interface name.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 836 |
| expected tuples in relation | 8 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
INTFNAM     relid = 3161  DBSTATIC   DBACC_DHSH  DBPRAM    LP      RCMAP


     intf_name   DMINT_NAME   (array [ 20 ] of char )   <--- key
     indx_name   DMUSHORT     (ushort)
     sm_name     DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout    INTFNAM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                           intf_name                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                           intf_name                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                           intf_name                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                           intf_name                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                           intf_name                           |
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
 20 |           indx_name           |    sm_name    |***************|
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population rules for RLintfnam

**Relation Description**

```
        Interface Protocol (IP) Interface Name Relation
```

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This relation converts an IP Interface index to an IP interface name, and also returns the SM number with which the interface is provisioned. This relation contains a list of all the IP interfaces on the switch, which must be distinct. The index is used instead of the name on the SMs to reduce memory usage.

**Attribute:**
intf_name
**Fullname:**
IP interface name
**Attribute Description:**
This attribute is the character name given to the IP interface on the switch.

**Attribute:**
sm_name
**Fullname:**
Switching module number
**Attribute Description:**
The number of the switching module associated with the IP interface.

**Attribute:**
indx_name
**Fullname:**
Index for interface name
**Attribute Description:**
Distinct index associated with the IP interface.

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# INTOPID

## 1. Description

List of reusable internal operator IDs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16383 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | ACDQ |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
INTOPID     relid = 688   DBSTATIC   DBACC_CIND  DBPRAM    LP      ACDQ
     intopid     DMINTOP      (ushort: 14)  <--- key, not stored
     dummy       DMDUMMY      (ushort: 8)
         User and Compacted Tuple Layout    INTOPID
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |           intopid             |*******************************|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  4 |     dummy     |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     dummy       DMDUMMY      (ushort: 8)
           Stored Tuple Layout      INTOPID
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |     dummy     |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLintopid

**Relation Description**
Internal operator ID.

When a new valid operator login is added to RLologinid this relation (RLintopid) should be checked first for a tuple. If there is a tuple, then it should be deleted and its corresponding intopid value used as the intopid attribute of the new tuple in the RLologinid relation. If there are no tuples in this relation and a new valid login is added, the global variable (GLintopcnt) should be incremented and the value of intopid in RLologinid should equal GLintopcnt. Whenever the RLologinid relation is empty (that is, there are no tuples), this relation should be cleared (delete all tuples) and Glintopcnt should be set to zero.

This relation is not to be populated for export applications. It should be populated in the domestic segment only in offices intended to serve OSPS. This relation is dependent on the relation RLologinid.G

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**Attribute: intopid**

**Fullname:** internal operator id

**Attribute Description** This is an internal operator id that is currently free for use. The largest value of intopid at any one time must be less than or equal to the global parameter Glintopcnt.

**Attribute: dummy**

**Fullname:** unused attribute

**Attribute Description** This attribute is unused and always set to 0.

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# INTTTF

## 1. Description

Relates TTF interrupt register bit position to circuit actually causing the interrupt. RLINTTTF replaces RLINT_TTF starting in 5E2(1). This relation appears only in SMs containing TTFs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation = 14 TTF * 16 INTBITS | 224 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
INTTTF      relid = 574   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     procname    DMCIRCUIT    (ushort)  <--- key
     cktname     DMCIRCUIT    (ushort)
     ckttype     DMCKTTYPE    (enum)
     ttf_bitnum  DMTTF_BITNUM (enum: 6)  <--- key
         User, Compacted and Stored Tuple Layout INTTTF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            procname           |            cktname            |
    |---------------+---------------+---------------+---------------|
    |                               |           |                   |
  4 |            ckttype            | ttf_bitnum|*******************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLintttf

**Relation Description:** Interrupt TTF.

Relates TTF interrupt register bit position to circuit actually causing the interrupt. RLINTTTF replaces RLINT_TTF starting in 5E2(1). This relation appears only in SMs containing TTFs.

**Attribute: procname**

**Fullname:** processor board circuit name from RLCKTDATA

**Attribute Description** For each TTF in a SM, there will be one tuple in RLintttf for each of the 16 interrupt bits in the TTF interrupt register. This key is the circuit name from RLCKTDATA.

**Attribute: ttf_bitnum**

**Fullname:** TTF interrupt register bit position

**Attribute Description** TTF interrupt register bit position. A tuple must be present for each of the 16 possible enumerations, whether the actual circuit is used and/or equipped. This field is also a

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key. The last four enumerations, even though not currently used, should be populated as shown in the example.

**Attribute: cktname**

**Fullname:** circuit name causing interrupt, from RLCKTDATA

**Attribute Description** The circuit name from RLCKTDATA of the circuit associated with the interrupt bit. For unused and/or unequipped circuits this attribute should be zero.

**Attribute: ckttype**

**Fullname:** PC circuit type, from RLCKTDATA

**Attribute Description** The circuit type from RLCKTDATA of the circuit associated with the interrupt bit. For unused and/or unequipped circuits this attribute should be PCNULLCKT.

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# INWNPAS

## 1. Description

Relation defining valid INWATS NPAs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 40 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
INWNPAS     relid = 2577  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     inwnpa       DMONPA        (ushort: 10)     <--- key
     oaff1        DMUNS6        (ushort: 6)
     oaff2        DMUNS8        (ushort: 8)
 (a) oaff3        DMMC_BOOL     (enum: 2)
 (b) oaff4        DMMC_BOOL     (enum: 2)
 (c) oaff5        DMMC_BOOL     (enum: 2)
 (d) oaff6        DMMC_BOOL     (enum: 2)
         User, Compacted and Stored Tuple Layout    INWNPAS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |           |               |   |   |   |   |
  0 |       inwnpa      |   oaff1   |     oaff2     | a | b | c | d |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLinwnpas

**Relation Description**
RLinwnpas

RLinwnpas defines which NPAs are to be considered to be inward wide area telecommunication service (INWATS) or toll-free NPAs.

**Attribute: inwnpa**

**Fullname:** INWATS NPA.

**Attribute Description** NPA (area code) to be toll-free.

**Attribute: oaff1**

**Fullname:** 6-bit spare.

**Attribute Description** Unused.

**Attribute: oaff2**

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**Fullname:** 8-bit spare.

**Attribute Description** Unused.

**Attribute: oaff3**

**Fullname:** tri-state boolean spare.

**Attribute Description** Unused.

**Attribute: oaff4**

**Fullname:** tri-state boolean spare.

**Attribute Description** Unused.

**Attribute: oaff5**

**Fullname:** tri-state boolean spare.

**Attribute Description** Unused.

**Attribute: oaff6**

**Fullname:** tri-state boolean spare.

**Attribute Description** Unused.

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# IPADDR_G

## 1. Description

This is the child storage relation for the RLipintcnf.G and RLpcrtoip.G virtual update relations.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3672 |
| expected tuples | 116 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTORAGE |
| ks key store | AUTO |
| foldtype | DBGC31 |
| gkidxrel reverse index | rlIPADDR_I |

## 3. Field Layout

```
IPADDR_G    relid = 3153  DBSTORAGE  DBACC_GK    DBPRAM    FR      NULL


     gkIPADDR_G  DMGK14       (ulong: 14)       <--- key, not stored
     indx_addr   DMUSHORT     (ushort)
         User and Compacted Tuple Layout   IPADDR_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|         gkIPADDR_G            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |           indx_addr           |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )


     indx_addr   DMUSHORT     (ushort)
           Stored Tuple Layout     IPADDR_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                         GK LINK FIELD                         |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |           indx_addr           |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLipaddr_g

### Relation Description

There are no population rules for this relation.

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# IPADDRMA

## 1. Description

Static IP address mapping to port number(s). This relation is used to determine the physical location (port number(s)) of a given destination IP address.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| expected tuples | 4 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFP |
| relation type | DBSTATIC |
| application | TCPIP |
| permutation type | un_perm |

## 3. Field Layout

```
IPADDRMA    relid = 33    DBSTATIC   DBACC_HASH  DBPRAM    LPFP    TCPIP
     dest_ipaddr  DMTCPADDR    (ulong)    <--- key
     orig_sm     DMMODULE     (ushort: 8)    <--- key
     subnet_mask  DMTCPADDR    (ulong)
     bcast_addr  DMTCPADDR    (ulong)
     ip_rte1     DMIPROUTE    (struct)
         port        DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         stat_weight  DMUNS8       (ushort: 8)
         time_to_live  DMUNS8       (ushort: 8)
         tos         DMUNS8       (ushort: 8)
     ip_rte2     DMIPROUTE    (struct)
         port        DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         stat_weight  DMUNS8       (ushort: 8)
         time_to_live  DMUNS8       (ushort: 8)
         tos         DMUNS8       (ushort: 8)
     ip_rte3     DMIPROUTE    (struct)
         port        DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         stat_weight  DMUNS8       (ushort: 8)
         time_to_live  DMUNS8       (ushort: 8)
         tos         DMUNS8       (ushort: 8)
     ip_rte4     DMIPROUTE    (struct)
         port        DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         stat_weight  DMUNS8       (ushort: 8)
         time_to_live  DMUNS8       (ushort: 8)
         tos         DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout   IPADDRMA
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                          dest_ipaddr                          |
    |---------------+---------------+---------------+---------------|
```

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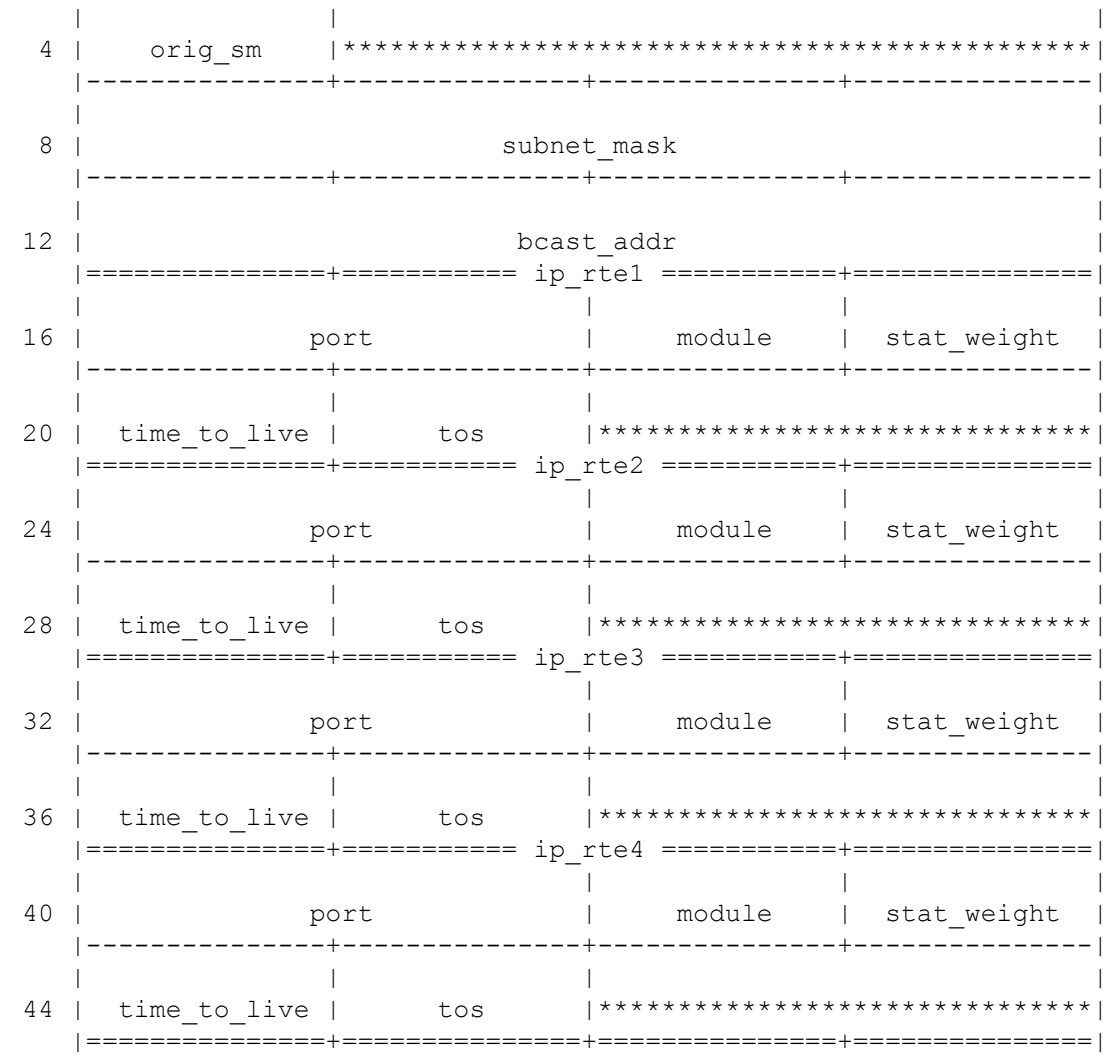
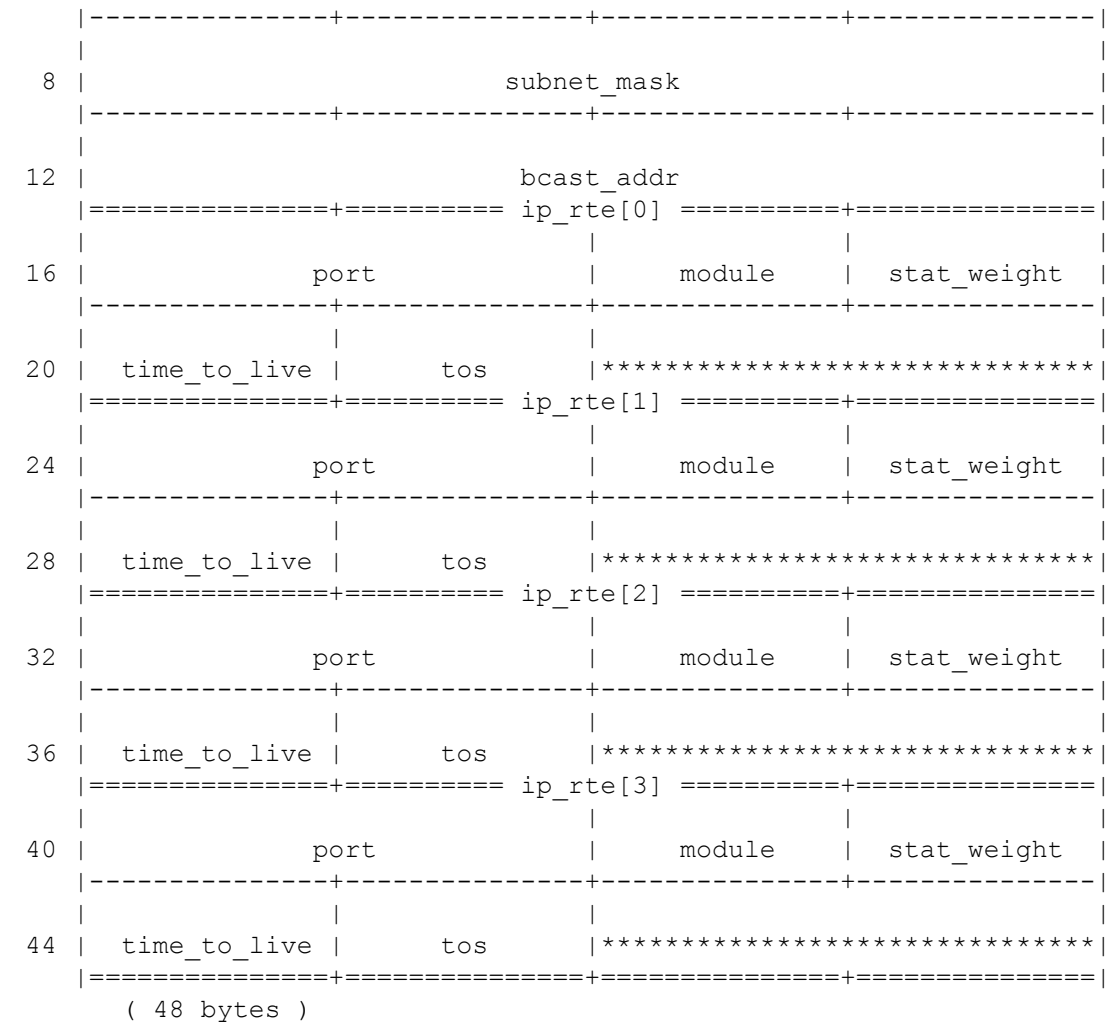

orig_sm
subnet_mask
bcast_addr
ip_rte1
port
module
stat_weight
time_to_live
tos
ip_rte2
ip_rte3
ip_rte4
( 48 bytes )
domain alIPADDRMA struct (5 sub-attributes)
dest_ipaddr unsigned long (ulong)
orig_sm .5.fake (ushort)
subnet_mask unsigned long (ulong)
bcast_addr unsigned long (ulong)
ip_rte .6.fake (array [ 4 ] of .0fake )
port unsigned short (ushort)
module .0.fake (ushort)
stat_weight .1.fake (ushort)
time_to_live .2.fake (ushort)
tos .3.fake (ushort)
Structure Layout alIPADDRMA
dest_ipaddr




## 4. Population rules for RLipaddrma

**Relation Description**

IP address mapping
Static IP address mapping to port number(s).
This relation is used to determine the physical location
(port number(s)) of a given destination IP address.

**Attribute:**
dest_ipaddr
**Fullname:**
Destination IP address
**Attribute Description:**
This attribute is the destination IP address.

**Attribute:**
orig_sm
**Fullname:**
Originating sm

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**Attribute Description:**
This attribute designates the dedicated sm that the TCPIP links are connected to. These links handle the TCP/IP message handling.

**Attribute:**
subnet_mask
**Fullname:**
Subnetwork MASK
**Attribute Description:**
A mask that will furhter divide the host portion of an IP address into several internal networks of varying size depending on the IP address class and the mask itself.

**Attribute:**
bcast_addr
**Fullname:**
Broadcast address
**Attribute Description:**
An IP address that will allow a single IP datagram to be directed and received by more than one host, through use of a special IP address.

**Attribute:**
ip_rte1
**Fullname:**
IP route
**Attribute Description:**
Structure used to route IP datagrams to a DSL port.

**Attribute:**
ip_rte2
**Fullname:**
IP route
**Attribute Description:**
Structure used to route IP datagrams to a DSL port.

**Attribute:**
ip_rte3
**Fullname:**
IP route
**Attribute Description:**
Structure used to route IP datagrams to a DSL port.

**Attribute:**
ip_rte4
**Fullname:**
IP route

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**Attribute Description:**

Structure used to route IP datagrams to a DSL port.

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# IPADRLOC

## 1. Description

This relation is the inverse relation of RLlocipadr.G It is used to translate an index into an associated IP address and IP version.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3927 |
| expected tuples | 121 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
IPADRLOC    relid = 3164  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL


     indx_addr   DMUSHORT     (ushort)  <--- key
     ip_vers     DMIPVERS     (enum: 4)
     ipaddr      DMIPADDR     (struct)
         ipaddr0     DMULONG      (ulong)
         ipaddr1     DMULONG      (ulong)
         ipaddr2     DMULONG      (ulong)
         ipaddr3     DMULONG      (ulong)
         User, Compacted and Stored Tuple Layout   IPADRLOC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |       |                     |
  0 |            indx_addr            |ip_vers|*********************|
    |===============+===========  ipaddr ===========+===============|
    |                                                               |
  4 |                             ipaddr0                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             ipaddr1                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                             ipaddr2                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                             ipaddr3                           |
    |===============+===============+===============+===============|
       ( 20 bytes )
```

## 4. Population rules for RLipadrloc

**Relation Description**

Local Interface Protocol (IP) address relation.

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This relation contains a list of all the IP addresses on the switch. It is keyed by a unique IP address index, and is used to reduce memory usage on the SMs.
It is the inverse relation of RLlocipadr.

**Attribute:**
indx_addr
**Fullname:**
IP address index
**Attribute Description:**
A unique index to represent the IP address. Used to save memory in the SMs.

**Attribute:**
ipaddr
**Fullname:**
IP address
**Attribute Description:**
This attribute is an IP address which has been assigned to either a processor (SM, PH, MH, etc) or an IP interface on this switch.

**Attribute:**
ip_vers
**Fullname:**
IP version.
**Attribute Description:**
This is the version (eg 4 or 6) of the IP address.

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# IPCS_PCI

## 1. Description

This relation maps OPC+DPC to PCI on a particular GSM. The OPC can be either the primary or an alias OPC of the GSM, and the DPC may be member-routed, cluster-routed, or network-routed. It takes the place of the "pci" attribute in RLdpc_dpci in 5e13 and earlier, which could only give the PCI corresponding to the primary OPC and a member-routed DPC.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 1024 |
| expected number of tuples | 28 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| relation type | DBSTATIC |
| distribution | FP |
| trigger function | CCipcs_pci |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
IPCS_PCI    relid = 3135  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL


    isup_opc    DMDPC        (ulong: 24)       <--- key
    isup_dpc    DMDPC        (ulong: 24)       <--- key
    pci         DMPCIDX      (ushort: 10)
        User, Compacted and Stored Tuple Layout   IPCS_PCI
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                               |               |
 0 |                    isup_opc                   |***************|
   |---------------+---------------+---------------+---------------|
   |                                               |               |
 4 |                    isup_dpc                   |***************|
   |---------------+---------------+---------------+---------------|
   |                   |                                           |
 8 |        pci        |*******************************************|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population rules for RLipcs_pci

### Relation Description

```
        OPC+DPC to PCI mapping relation

        This relation maps OPC+DPC to PCI on a particular GSM.  The
        OPC can be either the primary or an alias OPC of the GSM, and
        the DPC may be member-routed, cluster-routed, or
        network-routed.  It takes the place of the "pci" attribute
```

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in RLdpc_dpci in 5e13 and earlier, which could only give the PCI corresponding to the primary OPC and a member-routed DPC.

**Attribute:**
isup_opc
**Fullname:**
Origination Point Code
**Attribute Description:**
Primary or alias OPC (from RLgsm_opc), partial key to RLlab7_pci, RLlab7prt.

**Attribute:**
isup_dpc
**Fullname:**
Destination Point Code
**Attribute Description:**
Destination Point Code, partial key to RLlab7_pci, RLlab7prt, can be key to RLdpc_dpci (but does not have to be any more).

**Attribute:**
pci
**Fullname:**
Point Code Index
**Attribute Description:**
Point Code Index - key to RLpci7_lab.

**Defines:**
"db/DMaliasopc.h"

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# IPINTCNF

## 1. Description

This relation contains the IP address to interface assignment.

This Virtual Update relation is used to assign IP addresses to an X.25 interface. The Root storage relation is RLintcnf_r.G. The Child storage relations are RLipaddr_g.G, RLipintf_g.G and RLmasks_g.G. The tree diagram Figure 1 depicts the stored structure of virtual relation IPINTCNF.

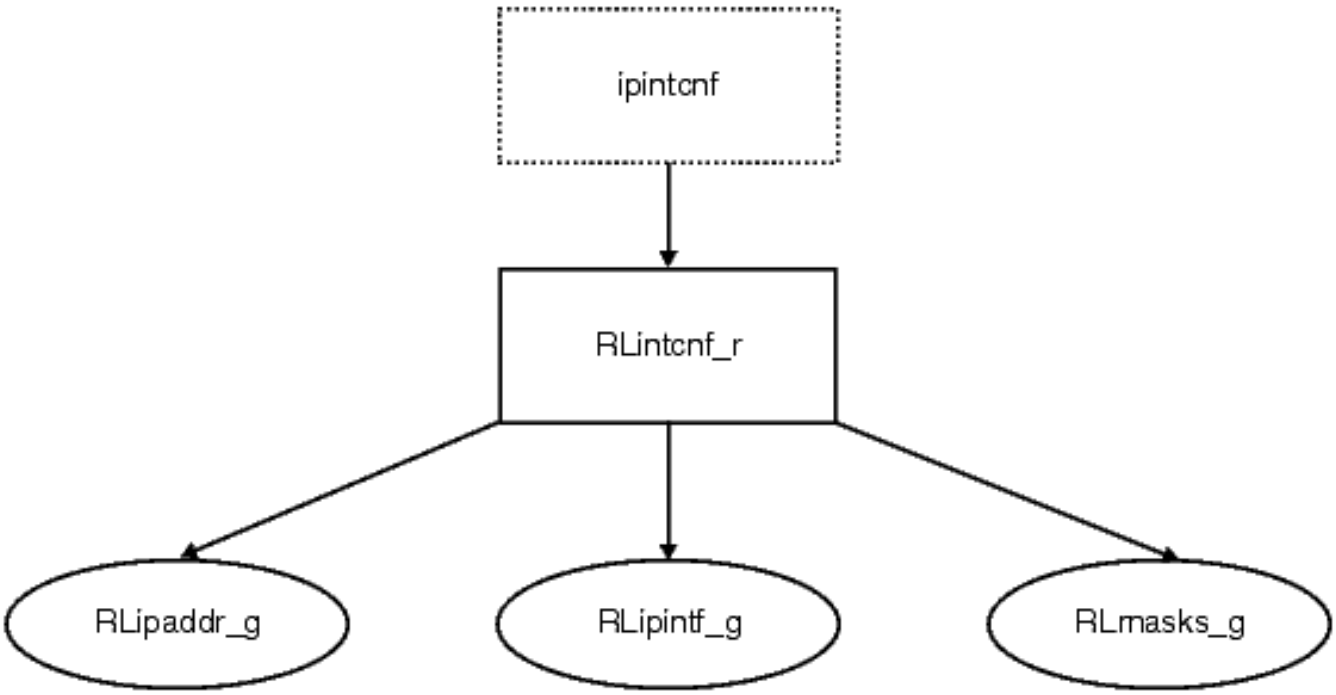


**Figure 1 Virtual Relation IPINTCNF**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | PSipintcnf |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
IPINTCNF    relid = 3159  DBSTATIC   DBACC_OPV   DBNOTODD  FP      NULL


     portnum     DMPORT       (ushort)  <--- key
     lcn         DMPS_LCN     (uchar: 7)        <--- key
     indx_name   DMUSHORT     (ushort)
     gw_indx_addr1  DMUSHORT     (ushort)
     gw_indx_addr2  DMUSHORT     (ushort)
     gw_indx_addr3  DMUSHORT     (ushort)
```

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```
    gw_indx_addr4  DMUSHORT     (ushort)
    gw_indx_addr5  DMUSHORT     (ushort)
    subnet_mask1  DMULONG      (ulong)
    subnet_mask2  DMULONG      (ulong)
    subnet_mask3  DMULONG      (ulong)
    subnet_mask4  DMULONG      (ulong)
    subnet_mask5  DMULONG      (ulong)
    ipmcast_addr  DMIPADDR     (struct)
        ipaddr0     DMULONG      (ulong)
        ipaddr1     DMULONG      (ulong)
        ipaddr2     DMULONG      (ulong)
        ipaddr3     DMULONG      (ulong)
    max_mtu     DMUSHORT     (ushort)
(a) calea_in_use  DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   IPINTCNF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |             |                 |
 0 |            portnum            |     lcn     |*****************|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |           indx_name           |         gw_indx_addr1         |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |         gw_indx_addr2         |         gw_indx_addr3         |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |         gw_indx_addr4         |         gw_indx_addr5         |
   |---------------+---------------+---------------+---------------|
   |                                                               |
16 |                          subnet_mask1                         |
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |                          subnet_mask2                         |
   |---------------+---------------+---------------+---------------|
   |                                                               |
24 |                          subnet_mask3                         |
   |---------------+---------------+---------------+---------------|
   |                                                               |
28 |                          subnet_mask4                         |
   |---------------+---------------+---------------+---------------|
   |                                                               |
32 |                          subnet_mask5                         |
   |===============+========  ipmcast_addr ========+===============|
   |                                                               |
36 |                            ipaddr0                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
40 |                            ipaddr1                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
44 |                            ipaddr2                            |
   |---------------+---------------+---------------+---------------|
```

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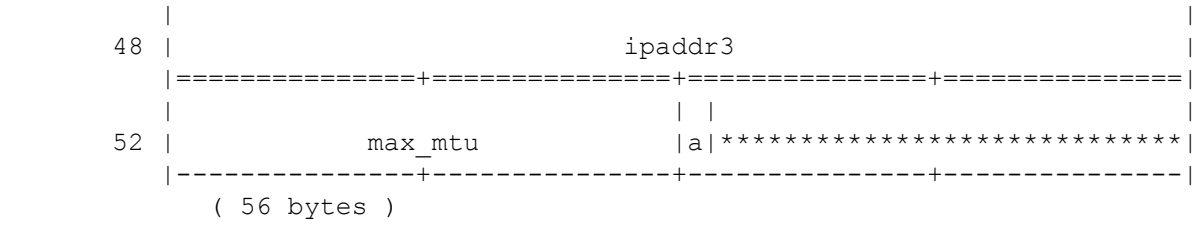
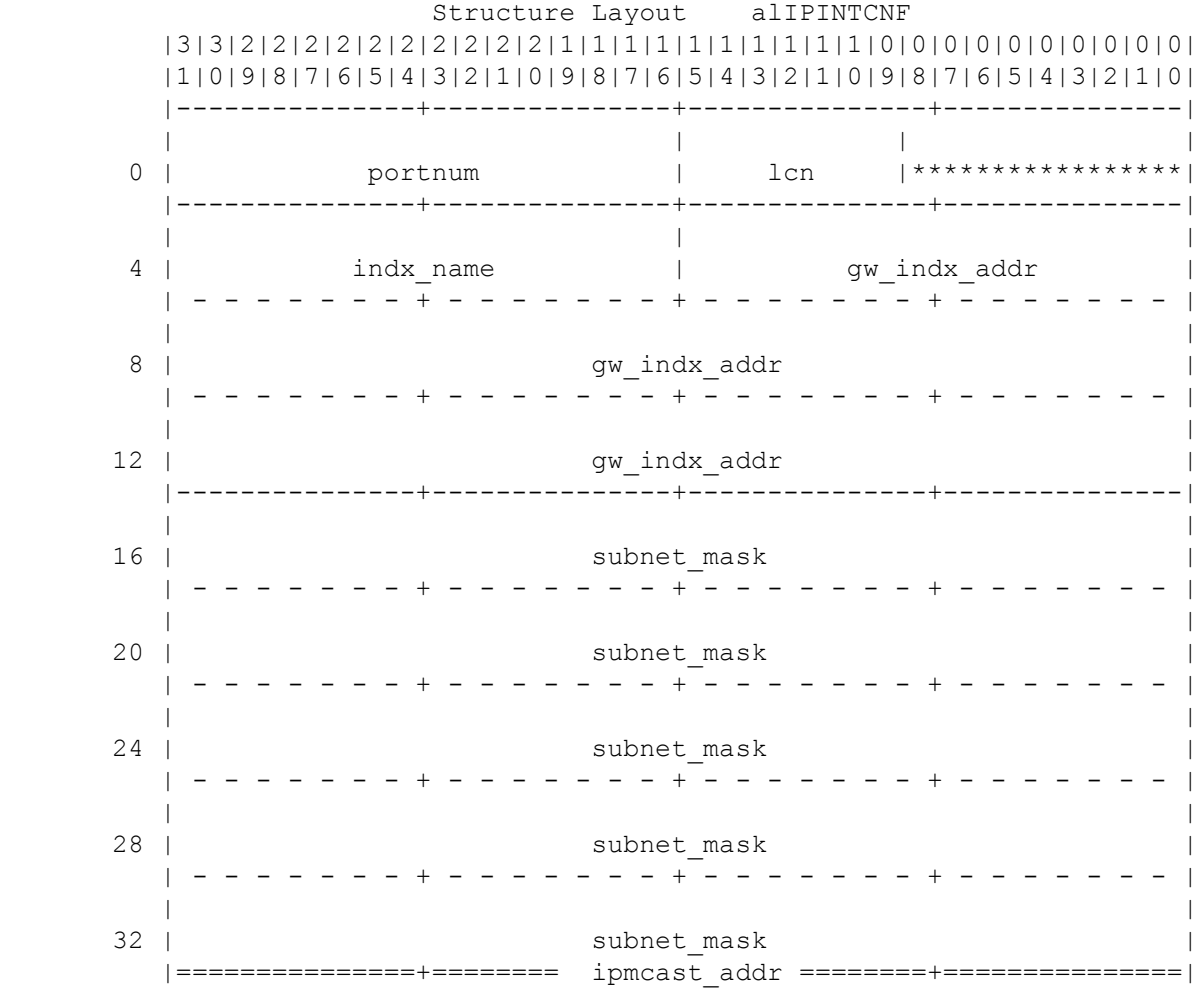



```
domain alIPINTCNF struct  (8 sub-attributes)
        portnum     unsigned short (ushort)
        lcn         .17.fake     (uchar: 7)
        indx_name   unsigned short (ushort)
        gw_indx_addr  .18.fake     (array [ 5 ] of unsigned short )
        subnet_mask  .19.fake     (array [ 5 ] of unsigned long )
        ipmcast_addr  .1fake       (struct)
            ipaddr0     unsigned long (ulong)
            ipaddr1     unsigned long (ulong)
            ipaddr2     unsigned long (ulong)
            ipaddr3     unsigned long (ulong)
        max_mtu       unsigned short (ushort)
    (a)  calea_in_use  .0fake       (enum)
```

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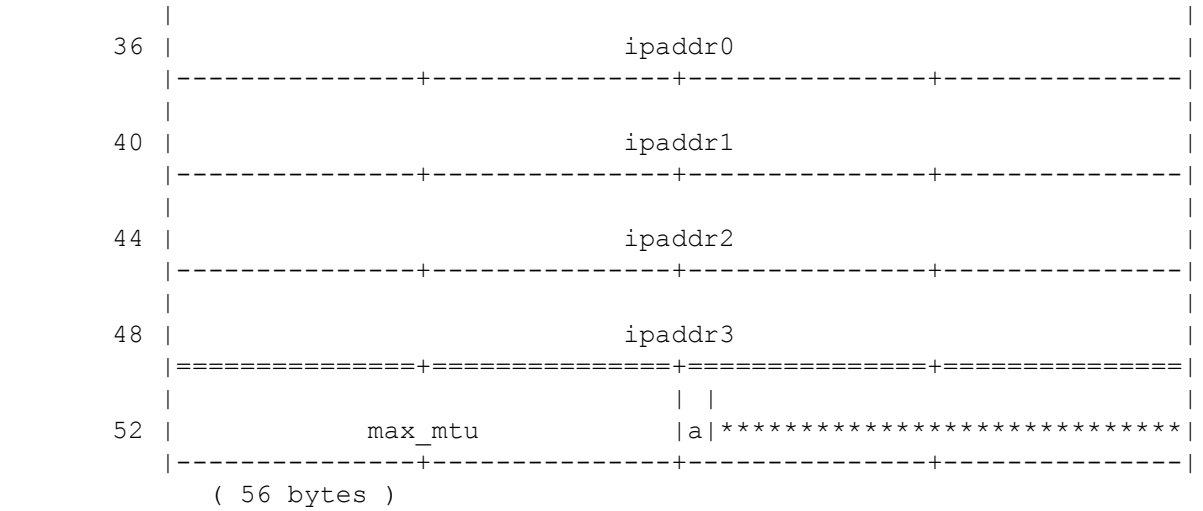


## 4. Population rules for RLipintcnf

### Relation Description

IP Address to Interface Configuration Assignment

This relation is used to assign IP addresses to an X.25 interface. The maximum tuple value is for a specific SM and is determined by the number of X.25 interfaces defined to be used by IP to connect to an external 5ESS(R)-2000 switch network

**Attribute:**
portnum
**Fullname:**
Portnum
**Attribute Description:**
The port number of the interface used. It is also identified by the PH channel group and member.

**Attribute:**
lcn
**Fullname:**
Logical channel number
**Attribute Description:**
The X.25 logical channel number used to identify the IP interface.

**Attribute:**
indx_name
**Fullname:**
Interface Name Index
**Attribute Description:**
Index for the name of the interface.

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**Attribute:**
gw_indx_addr[*]
**Fullname:**
Gateway IP Address Index
**Attribute Description:**
Index for the Gateway IP address1 assigned to the processor.

**Attribute:**
subnet_mask[*]
**Fullname:**
Subnetwork Mask
**Attribute Description:**
The subnetwork mask associated with the IP address[*].

**Attribute:**
ipmcast_addr
**Fullname:**
IP Multi-Cast Address
**Attribute Description:**
Multi-cast IP address for the interface.

**Attribute:**
max_mtu
**Fullname:**
Maximum Transmission Unit
**Attribute Description:**
This attribute states how large the IP datagrams can be in length.

**Attribute:**
calea_in_use
**Fullname:**
CALEA In Use
**Attribute Description:**
This attribute identifies if the IP interface is being used by the CALEA application.

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# IPINTF_G

## 1. Description

This is the child storage relation for RLipintcnf.G virtual update relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| expected tuples | 8 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution type | FP |
| relation type | DBSTORAGE |
| ks key store | AUTO |
| foldtype | DBGC31 |
| gkidxrel reverse index | rlIPINTF_I |

## 3. Field Layout

```
IPINTF_G    relid = 3167  DBSTORAGE  DBACC_GK    DBPRAM    FP      NULL


     gkIPINTF_G  DMGK14       (ulong: 14)       <--- key, not stored
     ipmcast_addr  DMIPADDR     (struct)
         ipaddr0     DMULONG      (ulong)
         ipaddr1     DMULONG      (ulong)
         ipaddr2     DMULONG      (ulong)
         ipaddr3     DMULONG      (ulong)
         User and Compacted Tuple Layout   IPINTF_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|         gkIPINTF_G            |
    |===============+========  ipmcast_addr ========+===============|
    |                                                                 |
  4 |                             ipaddr0                             |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  8 |                             ipaddr1                             |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 12 |                             ipaddr2                             |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 16 |                             ipaddr3                             |
    |===============+===============+===============+===============|
       ( 20 bytes )


     ipmcast_addr  DMIPADDR     (struct)
         ipaddr0     DMULONG      (ulong)
         ipaddr1     DMULONG      (ulong)
         ipaddr2     DMULONG      (ulong)
         ipaddr3     DMULONG      (ulong)
           Stored Tuple Layout     IPINTF_G
```

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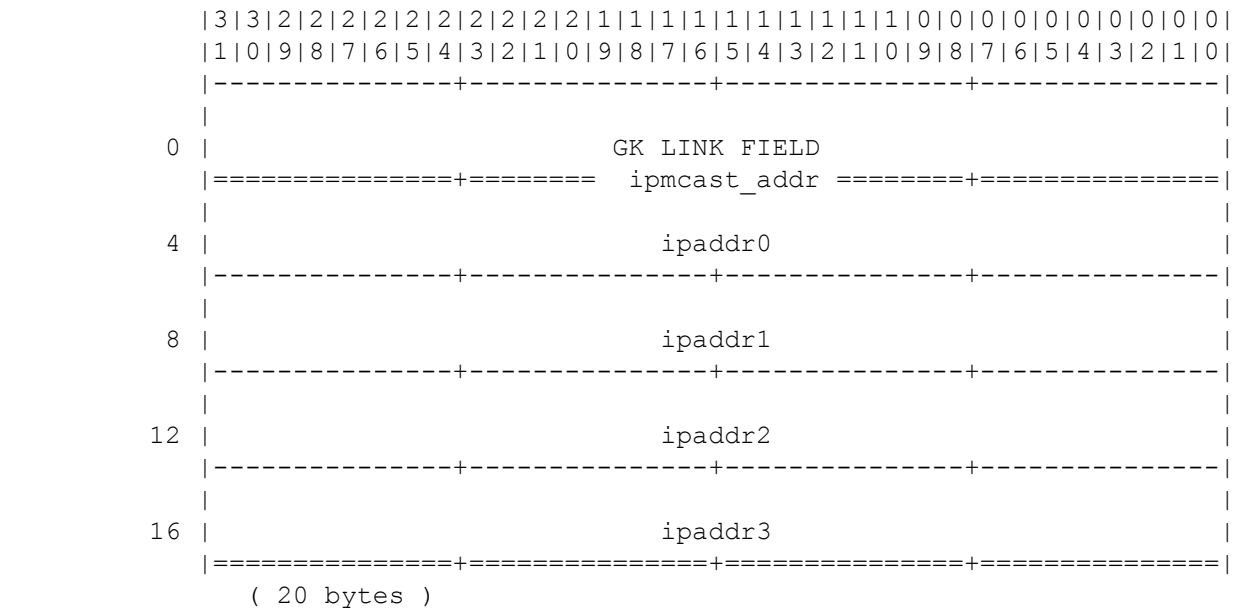


## 4. Population rules for RLipintf_g

**Relation Description**

There are no population rules for this relation.

# IPRTTAB

## 1. Description

This is the IP Routing Table relation. This relation contains static IP datagrams to an external network, subnetwork or host destination. It allows assignment of an IP destination address to an IP gateway address.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 836 |
| expected tuples | 8 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | PSiprttab |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
IPRTTAB     relid = 3165  DBSTATIC   DBACC_DHSH  DBPRAM    FP      NULL


     destip_addr  DMIPADDR     (struct) <--- key
         ipaddr0     DMULONG      (ulong)
         ipaddr1     DMULONG      (ulong)
         ipaddr2     DMULONG      (ulong)
         ipaddr3     DMULONG      (ulong)
     indx_name   DMUSHORT     (ushort)  <--- key
     gw_indx_addr  DMUSHORT     (ushort)
     iprt_metric  DMUNS8       (ushort: 8)
 (a) dest_ipvers  DMIPVERS     (enum: 4)        <--- key
 (b) is_net_addr  DMBOOL       (enum: 1)
     dest_sub_msk  DMIPMASK     (ulong)
         User, Compacted and Stored Tuple Layout    IPRTTAB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+========= destip_addr =========+===============|
    |                                                                |
  0 |                             ipaddr0                            |
    |---------------+---------------+---------------+---------------|
    |                                                                |
  4 |                             ipaddr1                            |
    |---------------+---------------+---------------+---------------|
    |                                                                |
  8 |                             ipaddr2                            |
    |---------------+---------------+---------------+---------------|
    |                                                                |
 12 |                             ipaddr3                            |
    |===============+===============+===============+===============|
    |                                 |                              |
 16 |           indx_name             |          gw_indx_addr        |
    |---------------+---------------+---------------+---------------|
    |               |       | |                                      |
```

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```
 20 |  iprt_metric  |   a   |b|************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 24 |                          dest_sub_msk                         |
    |---------------+---------------+---------------+---------------|
       ( 28 bytes )
```

## 4. Population rules for RLiprttab

### Relation Description

IP Routing Table Relation

This relation contains static IP datagrams to an external network, or host destination. This relation allows assigning a destination IP address to an external 5ESS(R)-2000 switch interface by interface name. For each interface assigned there may be one or more of these tuples.

**Attribute:**
destip_addr
**Fullname:**
Destination IP Address
**Attribute Description:**
The host or network IP address which can be reached via this route.

**Attribute:**
dest_ipvers
**Fullname:**
Destination IP Address Version
**Attribute Description:**
IP version associated with the destination IP address.

**Attribute:**
indx_name
**Fullname:**
Interface Name Index
**Attribute Description:**
This attribute is the index for the interface name.

**Attribute:**
dest_sub_msk
**Fullname:**
Destination Subnetworking Mask
**Attribute Description:**
The subnetwork mask associated with the destination IP address.

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**Attribute:**
gw_indx_addr
**Fullname:**
Gateway IP Address
**Attribute Description:**
Local gateway IP used to route IP datagrams to an external network.

**Attribute:**
is_net_addr
**Fullname:**
Is Network Address
**Attribute Description:**
This attribute determines if the IP address given is a network or host IP address.

**Attribute:**
iprt_metric
**Fullname:**
IP Routing Metric
**Attribute Description:**
This attribute is the route metric for the specific IP interface.

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# IPTOPCR

## 1. Description

This relation maps a local IP address to a specific *5ESS*®-2000 switch processor, which may be a physical or logical processor.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected tuples in relation | 100 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| trigger function | PSiptopcr |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
IPTOPCR     relid = 3166  DBSTATIC   DBACC_DHSH  DBPRAM    FR      NULL


    ip_addr     DMIPADDR     (struct)  <--- key
        ipaddr0     DMULONG      (ulong)
        ipaddr1     DMULONG      (ulong)
        ipaddr2     DMULONG      (ulong)
        ipaddr3     DMULONG      (ulong)
    ip_vers     DMIPVERS     (enum: 4) <--- key
    pcr_name    DMPCRNAME    (struct)
        pcr_id      DMUNS8       (ushort: 8)
        qualA       DMUNS8       (ushort: 8)
        qualB       DMUNS8       (ushort: 8)
        qualC       DMUNS8       (ushort: 8)
    subnet_mask  DMIPMASK     (ulong)
        User, Compacted and Stored Tuple Layout    IPTOPCR
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+========== ip_addr ==========+===============|
   |                                                               |
 0 |                            ipaddr0                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
 4 |                            ipaddr1                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
 8 |                            ipaddr2                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
12 |                            ipaddr3                            |
   |===============+===============+===============+===============|
   |       |                                                       |
16 |ip_vers|*******************************************************|
   |===============+==========  pcr_name ==========+===============|
```

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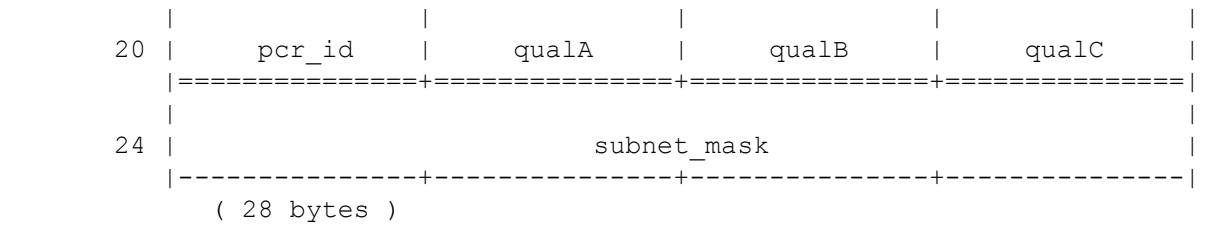


## 4. Population rules for RLiptopcr

### Relation Description

IP To Processor Assignment Relation

This relation maps a local IP address to a specific 5ESS(R)-2000 switch processor. The processor may be a physical or logical processor. All processors involved with IP datagram processing will have at least 1 local IP address.

**Attribute:**
ip_addr
**Fullname:**
IP Address
**Attribute Description:**
IP address assigned to the processor

**Attribute:**
ip_vers
**Fullname:**
IP version
**Attribute Description:**
IP version associated with IP address.

**Attribute:**
pcr_name
**Fullname:**
Processor Name
**Attribute Description:**
Processor identification number and its associated qualifiers based on processor ID.

**Attribute:**
subnet_mask
**Fullname:**
Subnetwork Mask
**Attribute Description:**
The subnetwork mask associated with the IP address.

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# IS_LINE

## 1. Description

This relation contains the ISDN Digital Subscriber Line Logical Termination Directory Number Feature Data.

This is a virtual update relation. The tree diagram Figure 1 depicts the stored structure of virtual relation IS_LINE.

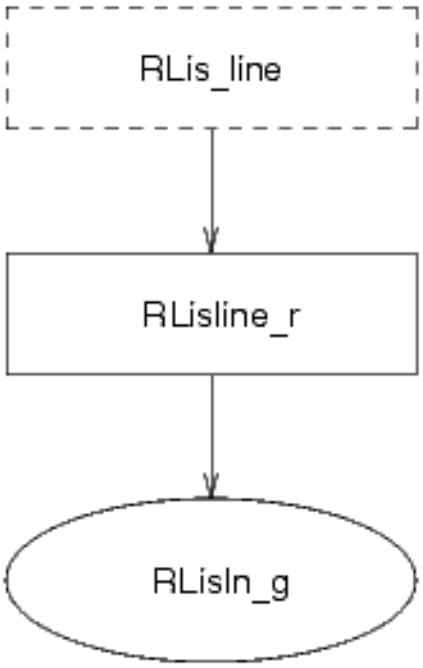


**Figure 1 Virtual Relation IS_LINE**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FG |
| relation type | DBSTATIC |
| corcable relation | DBYES |
| trigger function | DBtrisline |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| spare bits | 32l |

## 3. Field Layout

```
IS_LINE     relid = 860   DBSTATIC   DBACC_OPV   DBNOTODD  FG      NULL


    lead_lport  DMLPORT      (ushort: 16)
    mem_dn      DMMEMDN      (ushort: 14)
(a) o_reserv    DMBOOL       (enum: 1)
(b) t_reserv    DMBOOL       (enum: 1)
    grp_noc     DMGRPNOC     (ushort: 14)
(c) ctxid       DMCTXID      (enum: 2)
    noc         DMNOC        (ushort: 14)
```

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```
(d) lttype       DMLTTYPE     (enum: 2)
    bfgid        DMRCBFGID    (ushort: 12)
(e) nsa_reserv   DMSUBADDR    (uchar: 4)
    frst_ca      DMCALLAP     (uchar: 8)
    ffcf9        DMUNS8       (ushort: 8)
(f) csv_climit   DMCRV_BLIM   (uchar: 5)
(g) lead_termno   DMTERMNO     (uchar: 1)
(h) bill_flg     DMBOOL       (enum: 1)
(i) brc_dn       DMBOOL       (enum: 1)
(j) csd_climit   DMCRV_BLIM   (uchar: 5)
(k) csv_aco      DMACO_TYPE   (enum: 3)
(l) sa_orig_qty   DMCASACT     (uchar: 5)
(m) csd_aco      DMACO_TYPE   (enum: 3)
(n) sa_term_qty   DMCASACT     (uchar: 5)
(o) mdc_member   DMBOOL       (enum: 1)
(p) huntkeys     DMBOOL       (enum: 1)
(q) primary      DMBOOL       (enum: 1)
(r) csv_nblimit   DMNB_LIMIT   (ushort: 4)
(s) csd_nblimit   DMNB_LIMIT   (ushort: 4)
(t) dn_bfg       DMBOOL       (enum: 1)
(u) cfv_on       DMBOOL       (enum: 1)
(v) cfbl_on      DMBOOL       (enum: 1)
(w) cfda_on      DMBOOL       (enum: 1)
(x) disp_on      DMBOOL       (enum: 1)
(y) cnd_on       DMBOOL       (enum: 1)
(z) bfg_put      DMBOOL       (enum: 1)
(A) bfg_eds      DMBOOL       (enum: 1)
(B) ported       DMBOOL       (enum: 1)
(C) ffcf1        DMBOOL       (enum: 1)
(D) ffcf2        DMBOOL       (enum: 1)
(E) ffcf3        DMBOOL       (enum: 1)
(F) ffcf4        DMBOOL       (enum: 1)
(G) ffcf5        DMBOOL       (enum: 1)
(H) ffcf6        DMBOOL       (enum: 1)
(I) ffcf7        DMBOOL       (enum: 1)
(J) ffcf8        DMBOOL       (enum: 1)
(K) psap         DMBOOL       (enum: 1)
(L) mon_mode     DMBOOL       (enum: 1)
(M) pp_stat      DMBOOL       (enum: 1)
(N) intercept    DMBOOL       (enum: 1)
(O) scr_on       DMBOOL       (enum: 1)
(P) scf_on       DMBOOL       (enum: 1)
(Q) sca_on       DMBOOL       (enum: 1)
(R) sa_prio_qty   DMCASACT     (uchar: 5)
(S) shared       DMBOOL       (enum: 1)
(T) sh_analog    DMBOOL       (enum: 1)
(U) busymon      DMBOOL       (enum: 1)
(V) subaddr_cnt   DMSUBADDR    (uchar: 4)
(W) max_shca     DMSUBADDR    (uchar: 4)
(X) prior_map    DMPRI_MAP    (uchar: 4)
    sa_orig      DMSUBADDR    (uchar: 4)
    sa_term      DMSUBADDR    (uchar: 4)
    sa_prio      DMSUBADDR    (uchar: 4)
    lead_module   DMMODULE     (ushort: 8)      <--- key
```

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```
    ltm_idxi     DMLTM_IDX     (ulong: 16)       <--- key
    loc          DMLINENO      (ushort: 14)
(Y) sda_on       DMBOOL        (enum: 1)
(Z) sercomp      DMBOOL        (enum: 1)
(a) cpnbn_on     DMBOOL        (enum: 1)
(b) tgsr_on      DMBOOL        (enum: 1)
(c) cgps_alw     DMBOOL        (enum: 1)
(d) dcpn_bill    DMBILL_OPT    (enum: 1)
(e) bill_opt     DMBILL_OPT    (enum: 1)
(f) epo_on       DMBOOL        (enum: 1)
(g) tsmed        DMBOOL        (enum: 1)
(h) inhibit_del  DMBOOL        (enum: 1)
(i) freeterm     DMBOOL        (enum: 1)
    caseindex    DMCASEMAX     (ushort: 9)
        User, Compacted and Stored Tuple Layout    IS_LINE
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                             | | |
 0 |           lead_lport          |           mem_dn            |a|b|
   |---------------+---------------+---------------+---------------|
   |                           |   |                             |   |
 4 |          grp_noc          | c |            noc              | d |
   |---------------+---------------+---------------+---------------|
   |                       |       |               |               |
 8 |         bfgid         |   e   |    frst_ca    |     ffcf9     |
   |---------------+---------------+---------------+---------------|
   |         | | | |         |     |         |     |         | | | |
12 |    f    |g|h|i|    j    |  k  |    l    |  m  |    n    |o|p|q|
   |---------------+---------------+---------------+---------------|
   |       |       | | | | | | | | | | | | | | | | | | | | | | | | |
16 |   r   |   s   |t|u|v|w|x|y|z|A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|P|Q|
   |---------------+---------------+---------------+---------------|
   |         | | | |       |       |       |       |       |       |
20 |    R    |S|T|U|   V   |   W   |   X   |sa_orig|sa_term|sa_prio|
   |---------------+---------------+---------------+---------------|
   |               |                               |               |
24 |  lead_module  |            ltm_idxi           |***************|
   |---------------+---------------+---------------+---------------|
   |                           |   | | | | | | | | | | |   | |     |
28 |            loc            |***|Y|Z|a|b|c|d|e|f|g|h|***|i|*****|
   |---------------+---------------+---------------+---------------|
   |                 |                                             |
32 |    caseindex    |*********************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
36 |***************************************************************|
   |---------------+---------------+---------------+---------------|
     ( 40 bytes )
```

## 4. Population rules for RLis_line

### Relation Description

ISDN Digital Subscriber Line Logical Termination
Directory Number Data

This tuple is only populated to ltm_type = LTM_ISDN.

**Attribute:**
lead_module
**Fullname:**
the SM containing ltm_idx (SM of the lead port)
**Attribute Description:**
lead_module = RLrt_dntran.portname.module or
lead_module = RLgroup_port.port.module

**Attribute:**
ltm_idxi
**Fullname:**
logical termination index
**Attribute Description:**
ltm_idxi = RLrt_dntran.ltm_idx or ltm_idxi = RLgroup_port.ltm_idx.
See RLrt_dntran.P and RLgroup_port.P ltm_idxi and ltm_type
definitions for assignment rules.

Note ltm_type associated with this ltm_idxi is always LTM_ISDN
when used to create keys for relations such as RLdn_feats which
include both ltm_type and ltm_idx as part of the key.

For Call Appearance-Intercom(CA-ICOM) the ltm_idxi must have
an equivalent value in RLicm_term.grpdata for this lead_lport
& lead_termno.The grp_noc in the this is_line tuple is used
to index into grpdata field in the icm_term relation. The ltm index in
this grpdata field must be equal to the ltm index used to key this
is_line tuple. See checks for lttype.
ltm_idxi are generated the same way for CA-ICOM CAs as they are
for primary DN's. Only now there are more ltm indices for CA-ICOM.
A mention is made in RLdn_tran relation for CA-ICOM but the CA-ICOM CA
on the terminal does not have a DN directly associated with it.

For Secondary Only DNs the ltm_idxi will not match any
RLfc_line.ltm_idx. However if this is a Secondary Only MLHG then
there will be a tuple in RLgroup_port where
RLgroup_port(grp_noc,mem_dn).ltm_idx = ltm_idxi.
Also there can only be one such Secondary Only MLHG member for
a given terminal.

Note: Attribute ltm_idxi has a domain range of 0-65535.
In this relation, for SM-2000 ltm_idxi has a range of 1-65531,
for an SM ltm_idxi has a range of 1-8191. As discussed in
RLrc_qidx, the existence of an index implies the value 1 or
greater. If no index is defined, RLrc_qidx(LTM_IDXI) would
contain an index value of 1 and NO TUPLE WOULD EXIST IN THIS
RELATION. Therefore, ltm_idxi must be greater than 0 in this
relation.

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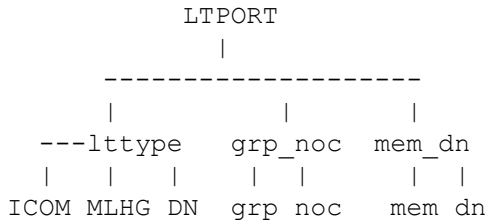
**Attribute:**
lead_lport
**Fullname:**
lead logical port for this ltport
**Attribute Description:**
Every ISDN BRCS DN has one designated lead terminal.
If shared = DBYES, lead_lport must be the same as
RLshterm(lead_module, ltm_idxi,0).shared1.lport.

Dependency:
This lead_lport must be the same as
RLrt_dntran((noc,locdn)).lport.
For lttype of IS_ICOM the lead_port is set to the
same value as that of the primary DN for this terminal.
If lttype is IS_MLHG, then it is also true that lead_lport
must equal RLgroup_port(grp_noc).lport.

**Attribute:**
lead_termno
**Fullname:**
lead terminal number for this ltport
**Attribute Description:**
The lead terminal for this telephone number
or multiline hunt line or for the CA-ICOM.

**Attribute:**
lttype
**Fullname:**
logical termination type
**Attribute Description:**
The 3 attributes lttype, grp_noc and mem_dn constitute a LT port.
For CA-ICOM the lttype is set to IS_ICOM.
Only lttype & grp_noc constitute a LT port
since mem_dn will be set to 0 in this case.
A LT port (Logical Termination port) is another way
to refer to a DN or MLHG member. Also see grp_noc and mem_dn
attributes.




NOTE: When a MLHG member is assigned a DN value, the LT port
value will reflect the MLHG member value not the DN.

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When a MLHG member is shared onto one or more Standard BRI Basic EKTS(TM) terminals, an individual DN value must be assigned.

**Attribute:**
grp_noc
**Fullname:**
group or noc according to lttype
**Attribute Description:**
If lttype = IS_MLHG then grp_noc = grpnum with range of 1-AVMLHGRPS().
RLis_line.grp_noc = RLgroup_port.portgrp.grpnum.

If lttype = IS_DN then grp_noc = noc with range of 1-AVNOCMAX().
RLis_line.grp_noc = RLrt_dntran.dn.noc.

If lttype = IS_ICOM then grp_noc has range of 1-4.
The grp_noc in this tuple represents the index to grpdata field in RLicm_term (that is, it is equal to the 'x' in grpdata_x). The ltm index for that grpdata field needs to be greater than zero and needs to be equal to the key for this is_line tuple. See check in lttype.

Also see lttype and mem_dn.

**Attribute:**
mem_dn
**Fullname:**
member or directory number according to lttype
**Attribute Description:**
If lttype = IS_MLHG then mem_dn = member with range of 1-2015, 3001-3999.
RLis_line.mem_dn = RLgroup_port.portgrp.member.

If lttype = IS_DN then mem_dn = dn with range of 0000-9999.
RLis_line.mem_dn = RLrt_dntran.dn.digits.

If lttype = IS_ICOM then mem_dn = 0.

Also see lttype and grp_noc.

**Attribute:**
bill_flg
**Fullname:**
billing flag indicator
**Attribute Description:**
Specifies if the LT port stored here for TNs

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is the billing DN

Dependencies:
If DBNO:
if lttype is IS_ICOM then noc & loc will
be 0, the billing DN wil be the corresponding primary
DN in RLfc_line.

RLis_line.noc and RLis_line.loc will be
used to construct the billing DN.
If DBYES:
RLisbilldn(lead_module,ltm_idxi).billdn
contains the billing DN. Refer to RLisbilldn for
conditions when value is DBYES.

**Attribute:**
brc_dn
**Fullname:**
dn_feats type features indicator
**Attribute Description:**
Specifies whether or not any DN assignable brcs features
are assigned to this LT port ( DN or MLHG member).

Ca-ICOM cannot be assigned any BRCS features.
See lttype also.

Dependencies:
If DBYES, a tuple will exist in RLdn_feats with key
RLdn_feats.lead_module and ltm_idxi,
ltm_type = LTM_ISDN, and range = 0.

If more than 6 DN features are assigned, additional
tuples using range 1 thru 4 in sequential order
will exist.

If primary = DBYES then brc_dn must equal RLfc_line.brc_dn.
The keys to RLfc_line tuple is
module = RLis_line.lead_module
port = RLlpt_pt(lport=RLis_line.lead_lport,
lpt_type=LPT_ISDN).port
party = RLlpt_pt(lport=RLis_line.lead_lport,
lpt_type=LPT_ISDN).party

**Attribute:**
mdc_member
**Fullname:**
member of message desk center
**Attribute Description:**
Message Desk Center member

For CA-ICOM this field will be DBNO.

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See lttype checks.
Dependency:
If primary = DBYES, the mdc_member value must equal
RLfc_line(RLlpt_pt(lead_lport,lpt_type=LPT_ISDN).port,party)
.mdc_member.
If primary = DBNO and
RLrt_mhg(RLpggpmap(port).portgrp.grpnum).mdc = DBYES,
then mdc_member value must equal DBYES.
DBYES is not allowed for Standard BRI or analog shared with
Standard BRI.

**Attribute:**
huntkeys
**Fullname:**
hunt keys indicator
**Attribute Description:**
Indicates that if the line is a member of a multiline hunt group, then:

1) this MLHG member has button(s) representing one or more of the following functions:
   - member-make-busy
   - stop-hunt
   - group-make-busy
   - position-make-busy
   - random-make-busy

   OR

2) this MLHG member is a Secondary Only and it belongs to a Member-Make-Busy or Random-Make-Busy Subgroup.

Dependencies:
If RLis_line.huntkeys equals DBYES:

1) RLis_line.lttype must be IS_MLHG.

2) There must be an RLbikypm tuple keyed by the grpnum and member represented by attributes grp_noc and mem_dn from this RLis_line tuple.

3) RLis_line.primary can be DBNO only when this is a secondary only member-make-busy or random-make-busy sub-group member.

For CA-ICOM this field needs to be DBNO, see lttype.

**Attribute:**
primary
**Fullname:**
indicates if this DN is the primary DN on some terminal
**Attribute Description:**
Indicates whether this DN is a primary DN on

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some terminal.

For CA-ICOM primary must be set to DBNO.
See lttype for checks.
Dependency:
RLis_line.primary is DBYES when an
RLfc_line((lead_module,RLlpt_pt(lport,lpt_type=LPT_ISDN)
port,party)) tuple exists.

If primary is DBNO, RLis_term(lport,0) on
the lead_module must have cpetype of
IS_TYPEC or IS_TYPED.

Note: Cannot have multiple DNs assignment when
primary = DBNO. This rule cannot be enforced in RLis_line PRL
since there is no RLfc_line tuple for the secondary DN.
See RLrc_multidn PRL.

**Attribute:**
subaddr_cnt
**Fullname:**
how many subaddresses are associated with the ltport
**Attribute Description:**
The total number of subaddresses minus 1 on any of the
terminals using this ltport. If shared analog
(RLfc_porttyp(RLlpt_pt(lead_lport,lpt_type=LPT_ISDN)
.port).sh_analog = DBYES), then subaddr_cnt = 0.

For DNs appearing on Standard BRIs:
subaddr_cnt is used only if Basic or CACH EKTS(TM) is subscribed on
the terminal on which the DN appears.
If lead_lport is a Basic EKTS(TM) terminal, then subaddr_cnt must equal
0 because a Basic EKTS(TM) terminal is allowed only one appearance of
each DN it uses. DNs on non-EKTS(TM) terminals must also have subaddr_cnt
equal to 0 since this field is not-used for STD non-EKTS(TM) DNs.

Note: a value of zero is ambiguous since 0 represents both 1
appearance (1 minus 1) and 0 appearances (field not used).

**Attribute:**
o_reserv
**Fullname:**
origination reservation
**Attribute Description:**
Indicates origination reservation.

The following discussion applies to four related attributes.
The four attributes o_resrv, t_reserv, nsa_reserv, and
prior_map provide as an option to the ISDN customer the
reservation of idle subaddresses for a particular DN.
This reservation will be one of three types. These

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types of reservation are mutually exclusive.

1. Termination only - Any attempt to originate on this subaddress will be denied. Calls attempting to terminate will terminate normally.

2. Origination only - Any attempt to terminate to the reserved subaddress will result in busy treatment. Originations will be handled normally.

3. Origination and priority terminations only - Originations will be handled normally. Terminations will receive busy treatment unless they qualify as priority terminations as specified in prior_map. If they qualify as priority terminations, they will terminate normally.

A definition of exactly what are priority calls is necessary when this type of subaddress reservation is chosen. The choice of priority calls is:

a. Originating call waiting features (CWO, DCW, IPC, OPC),

b. ISDN Intercom calls

c. Incoming calls (incoming to the terminal group),

d. PP precedence calls,

One or more of the previous types must be chosen.

Subbaddress reservation for a DN applies to its highest numbered subaddresses (SAs). For example, if a DN has a total of 4 subaddresses (subaddr_cnt = 3) with two subaddresses reserved for origination, (t_reserv=DBNO, o_reserv=DBYES, nsa_reserv=1) then SA2 and SA3 are reserved for origination.

Dependencies:
If RLfc_porttyp(RLlpt_pt(lport,lpt_type=LPT_ISDN))
sh_analog = DBYES or lttype = IS_MLHG or IS_ICOM
See lttype for checks for o_reserv, t_reserv,nsa_reserv & prior_map. RLis_term(lport,0).cpe_type is IS_TYPEE or IS_TYPEATT on lead_module, then:

o_reserv = DBNO
t_reserv = DBNO
nsa_reserv = 0
prior_map = 0

Dependencies Table

| o_reserv | t_reserv | feature |
|---|---|---|
| DBNO | DBNO | NORMAL |
| DBYES | DBNO | ORIG only |
| DBNO | DBYES | TERM only |

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```
        DBYES       DBYES       ORIG + Priority termination
```

**Attribute:**
t_reserv
**Fullname:**
termination reservation
**Attribute Description:**
Indicates termination reservation.
Also see attribute o_reserv.

**Attribute:**
nsa_reserv
**Fullname:**
number of subaddresses reserved
**Attribute Description:**
The number of subaddresses minus 1 reserved.
Default if o_reserv and t_reserv are DBNO.
The nsa_reserv value must be less than or equal to the subaddr_cnt value.
Also see attribute o_reserv.

NOTE: The size of a Call Pickup Group (RLpugpast.size) needs to be updated based on the number of subaddresses available for termination for the DNs within that group.
The following algorithm details this statement:

```
If brc_dn == DBYES &&
  RLdn_feats(with keys for this relation) has an entry such
  that the leftmost 6 bits of RLdn_feats.fid == MFPUT (8) &&
  RLput_cf(RLdn_feats.fid).fea_fun == CAL_PU
then if o_reserv == DBYES && t_reserv == DBNO
  Read RLpu_ltm( with the rightmost 10 bits of
  RLdn_feats.fid,lead_module,ltm_idx,ltm_type(LTM_ISDN)
  obtain t_pred_q then read RLpugpast(t_pred_q)
  NOW update the size based on any change in the
  number of subaddresses available for termination
  for this DN.

  For Custom and Standard EKTS(TM):

  before.size = subaddr_cnt - nsa_reserv
  after.size = subaddr_cnt - nsa_reserv
  change = before - after
  RLpugpast.size = RLpugpast.size + change
else before.size = subaddr_cnt + 1
  after.size = subaddr_cnt + 1
  change = before - after
  RLpugpast.size = RLpugpast.size + change

  For Standard Non-EKTS(TM):
```

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```
            before.size = csv_climit - nsa_reserv
            after.size = csv_climit - nsa_reserv
            change = before - after
            RLpugpast.size = RLpugpast.size + change
          else before.size = csv_climit + 1
            after.size = csv_climit + 1
            change = before - after
            RLpugpast.size = RLpugpast.size + change
```

**Attribute:**
prior_map
**Fullname:**
bit map for priorityp termination reservation
**Attribute Description:**
A four bit map indicating the four types of priority calls to include combination allowed for ORIG + Priority termination. This field is only valid for o_reserv = DBYES and t_reserv = DBYES: if not, all bits must be 0. Priority bit map for the four types of priorities:

bit0 = INCOM - Incoming to Terminal Grp
bit1 = ICOM - ISDN ICOM
bit2 = OCW - Originating Call Waiting
bit3 = PP - Priority and Preemption
Bit 0 is low order.

Dependency:
if o_reserv and t_reserv are both DBYES, prior_map must be non-zero, otherwise it must be zero.
Also see attribute o_reserv.

**Attribute:**
frst_ca
**Fullname:**
first call appearance
**Attribute Description:**
Specifies the first call appearance number on the lead terminal associated with the DN or MLHG Member or CA-ICOM CA. The call appearances on the lead terminal associated with the DN or Member are given by the call appearance number = frst_ca + offset, where offset = {0...subaddr_cnt}. This applies to RLis_term.cpetyp = { IS_TYPEB, IS_TYPEC and IS_TYPED, IS_TYPEATT }, except for Basic EKTS(TM) on Standard BRI which also has a cpetype of IS_TYPEC. frst_ca is not used (is set to 0) when the DN or MLHG member is primary on a Basic EKTS(TM) terminal.

For CA-ICOM the values must be from 1-254, same as RLtermkydn.
See checks under lttype = IS_ICOM

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NOTE: Call appearances on an ISDN station set
MUST be sequentially numbered within
a given DN. For example if DN 1 has 3 call
appearances, the ca values could be 1,2,3 or
23,24,25 or 46,47,48 (any 3 consecutive values).

Dependencies:
If Rlis_term(lead_lport,lead_termno).cpetype is in
{IS_TYPEB, IS_TYPEC, IS_TYPED, IS_TYPATT} then
frst_ca must be non-zero, except for Basic EKTS(TM)
(cpetype = IS_TYPEC and ekts = EKTS_BASIC) which requires
frst_ca be zero.

If cpetype is some value other than IS_TYPEB, IS_TYPEC, I
STYPE_D or ISTYPE_ATT then frst_ca must be 0.

The sum of frst_ca and subaddr_cnt must be less than or
equal to 254. For frst_ca not equal to zero, there must
exist tuples in RLtermkydn on the lead_module
with the keys as follows:

RLtermkydn.lport = lead_lport
RLtermkydn.termno = lead_termno
RLtermkydn.ca = all values from frst_ca to
(frst_ca + subaddr_cnt) inclusive

For DN/MLHG mbrs appearing on a Basic EKTS(TM) terminal RLtermkydn is
not used. RLcgpn_ltm is a relation similar to RLtermkydn.
RLcgpn_ltm is used only by Basic EKTS(TM) which identifies DN/Mbr
appearances by 'DN' instead of by 'call appearance number'.
This crosscheck with RLcgpn_ltm is placed here only because it is
logically related to the crosscheck with RLtermkydn. There
must exist exactly 1 tuple in RLcgpn_ltm with keys as follows:

lport = lead_lport
cgpn = 7 digit DN corresponding to 'noc' and 'loc'

**Attribute:**
shared
**Fullname:**
indicates if this is a shared ltport
**Attribute Description:**
Indicates whether this LT port(DN or Member or CA-ICOM CA) is
shared. If set to DBYES, then RLshterm(lead_module,
ltm_idxi, range) will contain the associated
terminals that share this DN. See RLshterm.P.
RLis_term for this lead_lport exists such
that RLis_term.cpetype = IS_TYPEC or IS_TYPED
and it is not an attendant.

A CA-ICOM CA cannot be shared, set shared to DBNO.
See checks under lttype is IS_ICOM.
When shared = DBYES, RLfc_line.multidn must be DBNO.

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When shared = DBYES, max_shca is populated with
an appropriate value. See max_shca.

Dependency:
If DBNO, then max_shca must be 0.

If RLfc_porttyp( RLlpt_pt(lead_lport,lpt_type=LPT_ISDN).port)
.sh_analog on the lead_module = DBYES, shared must be DBYES.

If shared is DBYES, RLshterm( lead_module,
ltm_idxi, 0).shared1 attributes of lport, frst_ca, and
subaddr_cnt must match those in RLis_line.

The value of RLis_line.shared impacts the value of the
RLspid.fip_req attribute. See the RLspid poprules for
further details.

**Attribute:**
sh_analog
**Fullname:**
Shared Analog terminal
**Attribute Description:**
Indicates whether this LT port (DN or Member) is
shared analog. If set to DBYES,
then this terminal is the analog lead of a Shared
DN group.
This will set to DBNO for CA-ICOM.
See checks under lttype is IS_ICOM.

If sh_analog = DBYES, shared must also equal DBYES.
If sh_analog = DBYES, the corresponding sh_analog flag
in RLfc_porttyp must also be DBYES. The sh_analog
flag in RLis_line is just a copy of the sh_analog flag
in RLfc_porttyp.

**Attribute:**
max_shca
**Fullname:**
the max number of shared call appearances
**Attribute Description:**
Specifies the number of shared call appearances minus one
for this DN on the terminal that has the most shared call
appearances for this DN.
For CA-ICOM set to 0.
See checks under lttype is IS_ICOM.

Dependencies:
If shared is DBYES, then max_shca is the largest of all
RLshterm(lead_module,ltm_idxi,0).shared[2-4].subaddr_cnt's and
RLshterm(lead_module,ltm_idxi,1).shared[1-4].subaddr_cnt's

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(if range 1 tuple exists).
If shared is DBNO, max_shca must be 0.

**Attribute:**
noc
**Fullname:**
normalized office code of DN
**Attribute Description:**
Specifies the normalized office code for the DN.
Must be the same as grp_noc/memdn(as appropriate
unless member of an MLHG. If member of an MLHG,
noc/loc = RLrt_dntran.dn.noc (key to tuple)
For CA-ICOM since there is no associated DN, noc
will be set to 0.
See checks under lttype is IS_ICOM.
If bill_flg is DBNO, noc and loc will be
used to construct the billing DN.

**Attribute:**
loc
**Fullname:**
locdn in binary
**Attribute Description:**
Specifies the last 4 digits in BINARY of the DN.
loc = RLrt_dntran.dn.digits (key to tuple)
For CA-ICOM since there is no associated DN, loc
will be set to 0.
See checks under lttype is IS_ICOM.

**Attribute:**
busymon
**Fullname:**
indicates if this DN is monitorable by an ISDN attendant
**Attribute Description:**
DBYES enables this port to be monitored by the ISDN
attendant consoles associated ISAT Group.
The following servclasses (as found in FC_PORTTYP)
that can be monitored by the BLF indicators. It should
be interpreted as the maximum set that can be expected.
FC_INDVDL
FC_ISDN

Set this to DBNO for CA-ICOM. See lttype.
Note:
If the DN of this port is a main DN of a multi-line
hunt group, then this attribute is DBNO.

If this attribute is set to DBYES, the DN of this
port must be reflected in the DN bit map of relations:
RLmoni_blf

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RLmask_blf
for that particular tuple having the same NOC and
hundreds group. Also this port must have a tuple in
the relation RLrc_oeinfo, or RLrc_mminf, or RLrc_dninfo
with the att_grp attribute having the value of the
isatgroup monitoring this DN.

Association for non-MLHG DNs is in RLrc_oeinfo (primary DN)
or in RLrc_dninfo (secondary-only DN).

For MLHG members, UCD-Listed TN and non-UCD member 1
(primary/secondary) is associated in RLrc_mminf, while
UCD member >= 1 and non-UCD member > 1 are associated in
RLrc_oeinfo (primary) or in RLrc_dninfo (secondary-only).

Note:
If RLis_line.subaddr_cnt = RLis_line.nsa_reserv
then RLis_line.busymon must be DBNO.

**Attribute:**
dn_bfg
**Fullname:**
indicates if DN type brcs features are assigned to a BFG
**Attribute Description:**
Indicates existence of RLdn_feats tuple with
RLdn_feats.ltm_idx = bfgid and RLdn_feats.lead_module
equal zero if DBYES.
For CA-ICOM set to DBNO, see lttype

**Attribute:**
bfgid
**Fullname:**
brcs feature group id
**Attribute Description:**
Identifier for the BRCS Feature Group. This value
identifies which BFG is assigned to this line - when
ever an entry is made to RLltm_bfg regarding this
line, the corresponding bfgid value needs to be
reflected for this attribute. (Note: ODA is
responsible for updating this attribute when
they are creating the initial BFG Transition List.)

For CA-ICOM set to 0, see lttype.
Dependancy:
If bfgid < 256 then dn_bfg = DBNO
If bfgid > 0 then there exists a tuple in RLltm_bfg
with bfgid = RLltm_bfg.bfgid

**Attribute:**
cfv_on

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**Fullname:**
call forwarding variable active indicator
**Attribute Description:**
Activation Status bit for CSV CFV or CSD CFV Feature (CFV feature is identified when RLcf_cf.fwd_cndtn has as its value CFN_BSYIDL, CFN_DBSYIDL, or CFN_PRCV.) If ltport assigned to a BFG with CSV CFV or CSD CFV feature, this bit is used by call processing to determine its activation status.
The use of DBNO signifies one of the following:
(1) if BFG has CFV and this feature is inactive, or
(2) if BFG does not have CFV feature (default case).
For CA-ICOM set to DBNO; see lttype

**Attribute:**
cfbl_on
**Fullname:**
call forwarding variable active indicator
**Attribute Description:**
Activation Status bit for CSV CFBL or CSD CFBL Feature (CFBL feature is identified when RLcf_cf.fwd_cndtn has as its value CFN_BUSY, CFN_DBUSY, CFN_PRCB, or CFN_PPBUSY.) If ltport assigned to a BFG with CSV CFBL or CSD CFBL feature, this bit is used by call processing to determine its activation status.
The use of DBYES signifies one of the following:
(1) if BFG has a corcable CFBL and this feature is active,
(2) if BFG has a noncorcable CFBL feature, or
(3) if BFG does not have a CFBL feature (default case).
For CA-ICOM set to DBNO; see lttype

**Attribute:**
cfda_on
**Fullname:**
call forwarding don't answer active indicator
**Attribute Description:**
Activation Status bit for CSV CFDA or CSD CFDA Feature (CFDA feature is identified when RLcf_cf.fwd_cndtn has as its value CFN_IDLE, CFN_DIDLE, CFN_PRCI, CFN_PPIDLE, or CFN_ACDQIDL). If ltport assigned to a BFG with CSV CFDA or CSD CFDA feature, this bit is used by call processing to determine its activation status.

The use of DBYES signifies one of the following:
(1) if BFG has a corcable CFDA and this feature is active,
(2) if BFG has a noncorcable CFDA feature,

Note: If a user has a call forwarding feature with a CFN_ACDQIDL forwarding condition in a BFG, cfda_on must always be DBYES.

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(3) if BFG does not have a CFDA feature (default case).
For CA-ICOM set to DBNO; see lttype

**Attribute:**
disp_on
**Fullname:**
display active indicator
**Attribute Description:**
Activation Status bit for LID (DN version of DISP) Feature
If ltport assigned to a BFG with LID feature, this bit is
used by call processing to determine its activation status
NOTE: This is not used (CORC'd) for 5E4(2).
Set to DBYES for CA-ICOM, see lttype.

**Attribute:**
cnd_on
**Fullname:**
calling number delivery active indicator
**Attribute Description:**
Activation Status bit for CND Feature. If ltport assigned
to a BFG with CND feature, this bit is used by call
processing to determine its activation status.
If this bit is set to DBYES, the CND feature is active.
See checks under lttype is IS_ICOM.

**Attribute:**
bfg_put
**Fullname:**
PUT BFG tuple indicator
**Attribute Description:**
Set to DBYES, if PUT tuple exist with key as bfgid
See checks under lttype is IS_ICOM.

**Attribute:**
bfg_eds
**Fullname:**
EDS BFG indicator
**Attribute Description:**
Set to DBYES, if EDS tuple exist with key as bfgid
See checks under lttype is IS_ICOM.

**Attribute:**
ffcf1
**Fullname:**
boolean reserved for future field feature
**Attribute Description:**
boolean reserved for future field feature
See checks under lttype is IS_ICOM.

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**Attribute:**
ffcf2
**Fullname:**
boolean reserved for future field feature
**Attribute Description:**
boolean reserved for future field feature
See checks under lttype is IS_ICOM.

**Attribute:**
ffcf3
**Fullname:**
boolean reserved for future field feature
**Attribute Description:**
boolean reserved for future field feature

**Attribute:**
ffcf4
**Fullname:**
Boolean reserved for future Field Feature use.
**Attribute Description:**
see fullname description.
See checks under lttype is IS_ICOM.

**Attribute:**
ffcf5
**Fullname:**
Boolean reserved for future Field Feature use.
**Attribute Description:**
see fullname description.

**Attribute:**
ffcf6
**Fullname:**
Boolean reserved for future Field Feature use.
**Attribute Description:**
see fullname description.

**Attribute:**
ffcf7
**Fullname:**
Boolean reserved for future Field Feature use.

**Attribute Description:**
see fullname description.
See checks under lttype is IS_ICOM.

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**Attribute:**
ffcf8
**Fullname:**
Boolean reserved for future Field Feature use.
**Attribute Description:**
see fullname description.
See checks under lttype is IS_ICOM.

**Attribute:**
ffcf9
**Fullname:**
unsigned 8 reserved for future Field Feature use.
**Attribute Description:**
see fullname description.
See checks under lttype is IS_ICOM.

**Attribute:**
psap
**Fullname:**
E911 Public Safety Answering Point indicator
**Attribute Description:**
This is a boolean used to indicate if the DN is an ISDN public safety answering point (PSAP).

**Attribute:**
mon_mode
**Fullname:**
monitor mode selection bit
**Attribute Description:**
This bit is reserved as a place holder for future ISDN Attendant Busy Lamp Field (BLF) development. This bit will be used to select the mode for monitoring the busy/idle status of this DN.
This bit will be set to DBNO for CA-ICOM, see lttype

**Attribute:**
pp_stat
**Fullname:**
PP feature indicator
**Attribute Description:**
Existence status bit for PP Feature assignment
Set to DBYES if PP feature is assigned either to the DN
(RLdn_feats(lead_module,ltm_type,ltm_idx,0-4)
or associated BFG
(RLdn_feats(0,LTM_ISDN,bfgid,0-4)
otherwise, set to DBNO.

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```
NOTE: This bit is set to DBYES if either of the two
following conditions are true:

1. A tuple exists in RLpp_ltm with the key

RLpp_ltm.lead_module = lead_module
RLpp_ltm.ltm_idx     = ltm_idxi
RLpp_ltm.ltm_type    = RLfc_line.ltm_type

2. If the bfgid of this tuple (in RLis_line) is >255:
then a tuple exists in RLpp_ltm with the following key
lead_module = zero
ltm_idxi    = bfgid
ltm_type    = LTM_ISDN (the default value of
ltm_type for BFG is
always LTM_ISDN, even
if the line is analog)

This bit is used by audits for the dynamic audit of
RLppsast. It is the basis for determining if the DN
is part of such audit.
Set to DBNO for CA-ICOM, see lttype.
```

## 5. IS_LINE Population rules continued.

**Attribute:**

intercept

**Fullname:**

indicates the DN associated with this tuple has been placed on intercept

**Attribute Description:**

```
This bit indicates that the DN associated with this tuple
has been placed on intercept.  Intercept basically denies
the DN origination and termination capabilities. It can
be determined from the termclass in RLrt_dntran (termclass
equals RTTC_AGING).

Range:
DBYES   DN is on intercept
DBNO    DN is not on intercept

Intercept set to DBNO, no associated DN for
CA-ICOM, see lttype.
Default: DBNO
derive based on RLrt_dntran and the following dependency
rules

Dependencies:
1) When intercept is assigned, the RLrt_dntran tuple must
   still be associated with its physical and logical data
   or a tuple won't exist here.
   When an MLHG member is placed on intercept,
   if the member's port is associated with a non-zero DN,
```

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```
   RLrt_dntran.termclass = RTTC_AGING.

   *** Assume a macro exists to convert binary format ***
   *** to ASCII format (BIN2ASCII)                    ***

   for all tuples in RLis_line
   where ( ( RLis_line.intercept equals DBYES ) and
   ( RLis_line.lttype equals IS_DN ) )
   when found
   find exactly 1 tuple in RLrt_dntran on CKT_ROUTING_SM
   where ( ( RLrt_dntran.dn.noc equals RLis_line.noc ) and
   ( RLrt_dntran.dn.digits[ 0..3 ] equals
   BIN2ASCII( RLis_line.loc ) ) )
   when found
   begin
   RLrt_dntran.port.module equals RLis_line.lead_module:
   RLrt_dntran.ltm_idx equals RLis_line.ltm_idxi:
   RLrt_dntran.ltm_type equals LTM_ISDN:
   RLrt_dntran.termclass equals RTTC_AGING:
   end:
```

2) If this is a primary DN, RLfc_line must be placed on intercept as well.

```
   for all tuples in RLis_line
   where ( ( RLis_line.intercept equals DBYES ) and
   ( RLis_line.primary equals DBYES ) )
   when found
   find exactly 1 tuple in RLlpt_pt
   on SM RLis_line.lead_module
   where ( ( RLlpt_pt.lport equals RLis_line.lead_lport ) and
   ( RLlpt_pt.lpt_type equals LPT_ISDN ) )
   when found
   find exactly 1 tuple in RLfc_line
   on SM RLis_line.lead_module
   where ( ( RLfc_line.port.module equals
   RLis_line.lead_module ) and
   ( RLfc_line.port.member equals
   RLlpt_pt.port ) and
   ( RLfc_line.party equals RLlpt_pt.party ) )
   when found
   RLfc_line.intercept equals DBYES:
```

3) Further, if the ISDN DN is part of a shared DN group then ALL RLis_line tuples in that shared DN group must be placed on intercept.

```
   short module:
   for all tuples in RLis_line
   if ( ( RLis_line.intercept equals DBYES ) and
   ( RLis_line.shared equals DBYES ) ) then
   find all tuples in RLshterm
   where ( ( RLshterm.lead_module equals
   RLis_line.lead_module ) and
```

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```
    ( RLshterm.ltm_idxi equals RLis_line.ltm_idxi ) and
    ( RLshterm.range is_in { 0..7 } ) )
    when found
    for module in RLshterm.shared[ 0..3 ].module
    find exactly 1 tuple in RLis_line on SM module
    where ( ( RLis_line.lead_module equals
    RLshterm.lead_module ) and
    ( RLis_line.ltm_idxi equals
    RLshterm.ltm_idxi ) )
    when found
    RLis_line.intercept equals DBYES:
```

4) Intercept CAN be assigned to an MLHG individual member DN or a member, including cases where the individual member DN is the same as the MLHG group DN (such as, member 1's DN for regular, circular or PPMHG hunt groups.)

When this occurs, the bit in RLrt_mem or RLrt_lgmem must be marked busy (0).
Note: RC/V must set the MLHG bit back to idle state if intercept is taken off this user.

```
int memnum:
int member:
for all tuples in RLis_line
where ( ( RLis_line.lttype equals IS_MLHG ) and
( RLis_line.intercept equals DBYES ) )
when found
find exactly 1 tuple in RLrt_mhg
where ( RLrt_mhg.grpnum equals RLis_line.grp_noc )
when found
select ( RLrt_mhg.htype )

when ( RTH_CIRCULAR ):
when ( RTH_ISAT ):
when ( RTH_PPSMHG ):
when ( RTH_REGULAR ):
when ( RTH_UCD ):

find exactly 1 tuple in RLrt_mem
on SM RLrt_mhg.module
where ( RLrt_mem.grpnum equals RLrt_mhg.grpnum )
when found
begin
memnum := RLis_line.mem_dn / 32:
member := RLis_line.mem_dn % 32:
RLrt_mem.memnum[memnum]:[member] := 0:
end:

when ( RTH_LGCIR ):
when ( RTH_LGREG ):
when ( RTH_LGUCD ):
when ( RTH_MUPH ):
```

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```
   when ( RTH_PPLMHG ):

   find exactly 1 tuple in RLrt_lgmem
   on SM RLrt_mhg.module
   where ( RLrt_lgmem.grpnum equals RLrt_mhg.grpnum )
   when found
   begin
   memnum := RLis_line.mem_dn / 32:
   member := RLis_line.mem_dn % 32:
   RLrt_lgmem.memnum[memnum]:[member] := 0:
   end:

   end:

5) Refer also to the population rules for:
   - RLfc_line.P    (ISDN primary DN information)
   - RLfc_porttyp.P (servclass attribute and retrofit)
   - RLrc_dninf.P   (does not exists when DN is associated
     with its port data)
   - RLrc_multidn.P (terminals with multiple DNs assigned)
   - RLrc_oeinfo.P  (exists where intercept equals DBYES
     and port data is intact)
   - RLrt_dntran.P  (termclass dependencies)
   - RLrt_lgmem.P   (large MLHG members)
   - RLrt_mem.P     (small MLHG members)

6) DNs placed on intercept are not allowed to series
   complete

   if(RLis_line.intercept equals DBYES) then
   RLis_line.sercomp must_equal DBNO:
```

**Attribute:**

scr_on

**Fullname:**

selective call rejection active

**Attribute Description:**

The following description applies to attributes scr_on, scf_on, sca_on, and sda_on.

This field indicates whether the feature is active (DBYES) for lines whose ltm_type is equal to LTM_ISDN. Redundant active field in FC_LINE will be ignored.

Through RC/V or CORC, the feature can be activated or deactivated by setting this field to either DBYES or DBNO respectively.

ODA must set this field to DBNO for new start offices.

General availability access to LASS Selective Features is denied for the secondary only DNs.

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Activation conditions:
---

A feature will not be activated unless
1) there is at least one DN stored in the screen list.
2) RTN (Remote Telephone Number or Forward-to-DN) is defined for SCF and SCA/CAR.
3) NAT (Non-Acceptance Termination Treatment) is defined for SCA/CAR. If NAT is defined as NAT_RCRD, RTN is not required to be populated.
4) For the subscription case, the master switch in DN_FEATS is on (DBYES).
   (Note: This does not apply to RC/V.)

For individual DNs (non-MLHG DNs) or no-hunt DNs of MLHG members, this is the only field to be updated in order to activate or de-activate the feature. The active field in DN_FEATS (for subscription case) will not be updated.

scr_on, scf_on, sca_on, sda_on are not allowed to be active (DBYES) for any ltm_idx on a Standard BRI. No cross checks are written for the scr_on, scf_on, sca_on, sda_on flags because access to these features is blocked elsewhere. Both subscription and general availability access is blocked.

For CA-ICOM set scr_on, scf_on, sca_on, sda_on to DBNO, see lttype.

Multi-line Hunt Group:
---

If this is the member one (lead member) of a multi_line hunt group, the feature status of the multi-line hunt group, scr_on (or scf_on or sca_on or sda_on) in MHG_CF relation should be updated when this field(s), and/or the master switch, mastsw in DN_FEATS is (are) changed.

The truth table is:

| IS_LINE | DN_FEATS | MHG_CF |
|---|---|---|
| scr_on | mastsw | scr_on |
| DBNO | DBNO | DBNO |
| DBYES | DBNO | DBNO |
| DBNO | DBYES | DBNO |
| DBYES | DBYES | DBYES |

| scf_on | mastsw | scf_on |
|---|---|---|
| DBNO | DBNO | DBNO |
| DBYES | DBNO | DBNO |
| DBNO | DBYES | DBNO |
| DBYES | DBYES | DBYES |

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| sca_on | mastsw | sca_on |
|---|---|---|
| DBNO | DBNO | DBNO |
| DBYES | DBNO | DBNO |
| DBNO | DBYES | DBNO |
| DBYES | DBYES | DBYES |

| sda_on | mastsw | sda_on |
|---|---|---|
| DBNO | DBNO | DBNO |
| DBYES | DBNO | DBNO |
| DBNO | DBYES | DBNO |
| DBYES | DBYES | DBYES |

**Attribute:**
scf_on
**Fullname:**
selective call forwarding active
**Attribute Description:**
See the scr_on attribute for detailed description.

**Attribute:**
sca_on
**Fullname:**
selective call acceptance active
**Attribute Description:**
See the scr_on attribute for detailed description.

**Attribute:**
sda_on
**Fullname:**
selective distinctive alerting active
**Attribute Description:**
See the scr_on attribute for detailed description.

**Attribute:**
sercomp
**Fullname:**
series completion activation bit
**Attribute Description:**
Indicates whether the series completion feature is assigned on this DN. See RLscm_nscm for a complete set of poprules for the series completion feature.
For CA-ICOM set to DBNO,see lttype.

**Attribute:**
cpnbn_on
**Fullname:**

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CPN/BN activated for BFG

**Attribute Description:**

Activation Status bit for CPN/BN feature.
If ltport assigned to a BFG with CPN/BN feature, this bit is used by call processing to determine its activation status.
This attribute must be set to DBYES when the CPN/BN feature is activated (on) for the directory number or multiline hunt group member. This attribute must be set to DBNO when the CPN/BN feature is deactivated (off). This attribute is also used when the directory number is a shared analog line.
The corresponding attribute, RLfc_line.cpnbn_on, must be set to the value of this attribute when a shared analog line is unshared.
When an analog line is shared, the value of RLfc_line.cpnbn_on must be copied into RLis_line.cpnbn_on.
For CA-ICOM set to DBNO,see lttype.

**Attribute:**

tgsr_on

**Fullname:**

terminal group station restriction active on BFG

**Attribute Description:**

Activation status bit for TGSR feature. If an ISDN user is assigned to a BFG with a TGSR feature, this bit is used by call processing to determine its activation status.
If this bit is set to DBYES, the TGSR feature is active for this user.
For CA-ICOM set to DBNO,see lttype.

**Attribute:**

csv_aco

**Fullname:**

Circuit Switched Voice Additional Call Offering

**Attribute Description:**

csv_aco defines the type of ACO feature assigned for this DN for voice calls. If ACO is not subscribed, csv_aco is set to ACO_NONE. ACO is only subscribeable by primary DNs appearing on Standard ISDN BRI interfaces and subject to the further restriction the (single) terminal on which the DN appears must not subscribe to EKTS(TM) service.
For CA-ICOM set this to ACO_NONE, see lttype

**Attribute:**

csd_aco

**Fullname:**

Circuit Switched Data Additional Call Offering

**Attribute Description:**

csd_aco defines the type of ACO feature assigned for this DN for CSD calls. If ACO is not subscribed, csd_aco is set to ACO_NONE. ACO is only subscribeable by primary DNs appearing on Standard ISDN BRI interfaces and subject to the further

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restriction that the (single) terminal on which the DN appears must not subscribe to EKTS(TM) service.
For CA-ICOM set this to ACO_NONE, see lttype

**Attribute:**
csv_climit
**Fullname:**
Voice Call Reference Busy Limit
**Attribute Description:**
csv_climit is used only when this LTPORT is on a non-EKTS(TM) terminal on a Standard BRI. Otherwise it must be set to 0.

It is the number of call reference values allowed to be active simultaneously on this ltm_idx for CSV (voice) calls. A value of zero implies no voice service on this ltm_idx, a value of 1 implies only 1 call reference value may be associated with voice calls on this ltm_idx, etc.
A non-zero value of csv_climit when CSV ACO is not subscribed allows multiple calls on a ltm_idx only through Hold (that is, user puts an existing call on hold and originates another call).
csv_climit must be greater than zero if CSV ACO is subscribed.
Set csv_limit to 0 for CA-ICOM see lttype.

**Attribute:**
csd_climit
**Fullname:**
CSD Call Reference Busy Limit
**Attribute Description:**
csd_climit is used only when this LTPORT is on a terminal on a Standard BRI. Otherwise it must be set to 0.

It is the number of call reference values allowed to be active simultaneously on this ltm_idx for CSD (data) calls. A value of zero implies no CSD service on this ltm_idx, a value of 1 implies only 1 call reference value may be associated with CSD calls on this ltm_idx, etc.
A non-zero value of csd_climit when CSD ACO is not subscribed allows multiple calls on a ltm_idx only through Hold (that is, user puts an existing call on hold and originates another call). csd_climit must be greater than zero if CSD ACO is subscribed.

csd_climit can be set to 0 through 16 when the LTPORT appears on a non-EKTS(TM) terminal on a Standard BRI.
When the LTPORT appears on an EKTS(TM) terminal, the LTPORT must be primary and csd_climit is restricted to either 0 or 1.
Set csd_limit to 0 for CA-ICOM see lttype.

**Attribute:**

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csv_nblimit

**Fullname:**

Circuit Switched Voice Notification Busy Limit

**Attribute Description:**

This attribute indicates the maximum number of call references the switch will allow to be used concurrently for called-user notification of waiting voice calls.

For information on how csv_nblimit is populated see rc-oda rules and retrofit-oda rules.

Set to 0 for CA-ICOM, see checks for lttype.

**Attribute:**

csd_nblimit

**Fullname:**

Circuit Switched Data Notification Busy Limit

**Attribute Description:**

This attribute indicates the maximum number of call references the switch will allow to be used concurrently for called-user notification of waiting data calls.

For information on how to populate csd_nblimit see rc-oda rules and retrofit-oda rules.

Set to 0 for CA-ICOM, see checks for lttype.

**Attribute:**

cgps_alw

**Fullname:**

Calling Party Subaddress Allowed

**Attribute Description:**

This attribute indicates whether CgPS (Calling Party Number Subaddress is allowed on the directory number or to the multiline hunt group member. CgPS is allowed for Standard BRIs only. This attribute is set to DBYES if both this is a Standard BRI and the MFCPI (CPN/BN) feature is subscribed by this DN/MLHG member. Otherwise it is set to DBNO. This attribute is used to populate the dynamic relation RLcpnbncnt and is used by the CPNBNCNT and IS_LINE audits.
For CA-ICOM set to DBNO; see lttype.

**Attribute:**

dcpn_bill

**Fullname:**

Data CPN/BN billing option

**Attribute Description:**

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This attribute indicates the billing option subscribed to for the CPN/BN feature. This attribute is set based on the billing option for the CPN/BN feature (MFCPI) and whether data (CSD) is assigned to the directory number or to the multiline hunt group member.

The CA-ICOM is billed a flat rate, so this attribute must be set to FLATRATE. See lttype.
This attribute is set to FLATRATE if flat rate billing is done. This attribute is set to USAGESENS if usage sensitive billing is done and CSD is assigned. If no CPN/BN feature is subscribed to, the attribute must be set to FLATRATE. This attribute is used to populate the dynamic relation RLcpnbncnt for keeping usage data billing counts and is used by the CPNBNCNT and IS_LINE audits.

**Attribute:**
bill_opt
**Fullname:**
CPN/BN billing option
**Attribute Description:**
This attribute indicates the billing option subscribed to for the CPN/BN feature. This attribute must be the same as the billing option for the CPN/BN feature (MFCPI) assigned to the directory number or to the multiline hunt group member except for ISDN primary DNs whose lead lports have no voice service. See dcpn_bill for CA-ICOM. Also see lttype.
This attribute is set to FLATRATE if flat rate billing is done and set to USAGESENS if usage sensitive billing is done. If no CPN/BN feature is subscribed to, the attribute must be set to FLATRATE. This attribute is used to populate the dynamic relation RLcpnbncnt for keeping usage billing counts and is used by the CPNBNCNT and IS_LINE audits

**Attribute:**
epo_on
**Fullname:**
enhanced professional office indicator
**Attribute Description:**
This attribute indicates that this DN or MLHG member is being tracked by the MIS as an Enhanced Professional Office (EPO) DN or member. The terminal that's assigned this DN must not be a standard ISDN terminal or an ACD/BRCS position.

**Attribute:**
freeterm
**Fullname:**
Free Termination
**Attribute Description:**

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RLis_line.freeterm is used in SHDN to provide the
associate terminals with the lead member's free terminating
service state. DBYES means the calling party to this port
is not billed. For all tuples in RLis_line which have
RLis_line.primary equal to DBYES, the value of RLis_line.freeterm
is set to the value of RLfc_line.freeterm for that primary DN.
For CA-ICOM freeterm needs to be set to DBNO, see lttype.
For CA-ICOM primary will be set to DBNO.
For secondary only, RLis_line.freeterm is set to DBNO.

**Attribute:**
sa_orig
**Fullname:**
Subaddress for originations
**Attribute Description:**
Used for National ISDN (standard), not custom.
The lowest call appearance subaddress which is reserved for originations only. This attribute is used as an offset to frst_ca when finding the first call appearance reserved for originations only.

A value of 0 could indicate either the first subaddress reserved for originations or no subaddresses reserved, depending on the value of sa_orig_qty.

**Attribute:**
sa_orig_qty
**Fullname:**
Quantity of subaddresses for originations
**Attribute Description:**
Used for National ISDN (standard), not custom.
The total number of consecutive call appearance subaddresses, beginning with the subaddress specified in sa_orig, which are reserved for originations only. A value of 0 indicates that no subaddresses are reserved for originations only.

**Attribute:**
sa_term
**Fullname:**
Subaddress for terminations
**Attribute Description:**
Used for National ISDN (standard), not custom.
The lowest call appearance subaddress which is reserved for terminations only. This attribute is used as an offset to frst_ca when finding the first call appearance reserved for terminations only.

A value of 0 could indicate either the first subaddress reserved for terminations or no subaddresses reserved, depending on the value of sa_term_qty.

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**Attribute:**
sa_term_qty
**Fullname:**
Quantity of subaddresses for terminations
**Attribute Description:**
Used for National ISDN (standard), not custom.
The total number of consecutive call appearance subaddresses, beginning with the subaddress specified in sa_term, which are reserved for terminations only. A value of 0 indicates that no subaddresses are reserved for terminations only.

**Attribute:**
sa_prio
**Fullname:**
Subaddress for originations and priority incoming terminations
**Attribute Description:**
Used for National ISDN (standard), not custom.
The lowest call appearance subaddress which is reserved for originations and priority incoming terminations only. This attribute is used as an offset to frst_ca when finding the first call appearance reserved for originations and priority incoming terminations only.

A value of 0 could indicate either the first subaddress reserved for originations and priority incoming termination or no subaddresses reserved, depending on the value of sa_prio_qty.

**Attribute:**
sa_prio_qty
**Fullname:**
Quantity of subaddresses for originations and priority incoming terminations
**Attribute Description:**
Used for National ISDN (standard), not custom.
The total number of consecutive call appearance subaddresses, beginning with the subaddress specified in sa_prio, which are reserved for originations and priority incoming terminations only. A value of 0 indicates that no subaddresses are reserved for originations and priority incoming terminations only.

**Attribute:**
ported
**Fullname:**
ported indicator
**Attribute Description:**
This attribute indicates if the line associated with this tuple is individually ported by the Number Portability feature. However, if the line is in either a Multiline Hunt Group (MLHG)

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or a Terminal Group (TG), then the group ported indicator takes precedence over the individual ported indicator. The indicator that will be used (either the individual or the group ported indicator) will be determined by call processing.

**Attribute:**
tsmed
**Fullname:**
Telephone Status Monitor and Select monitored terminal
**Attribute Description:**
Indicates if this terminal is being monitored by the TSM feature. It is needed for secondary only DNs but is populated for all ISDN DNs.

**Attribute:**
ctxid
**Fullname:**
Context Identifier
**Attribute Description:**
This attribute indicates if the line associated with this tuple is unbundled or resold. A line is unbundled if ctxid = CTXID_UNBNLD; it is resold if ctxid = CTXID_RESOLD.

**Attribute:**
inhibit_del
**Fullname:**
Inhibit Deletion
**Attribute Description:**
Inhibit deletion of DSL. If inhibit_del is DBYES, deletion through RC will be inhibited. See rc-oda-rules section.

**Attribute:**
caseindex
**Fullname:**
Case Index
**Attribute Description:**
Index into the RLcase_idx relation.

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# IS_TERM

## 1. Description

This relation contains the digital subscriber line terminal feature data.

QUANTITY OF TUPLES:
There is one (1) tuple for each digital subscriber line (RLfc_porttyp.servclass = FC_ISDN or FC_ISATND) that has flexible call offering (MCA).

This is a virtual update relation. The tree diagram Figure 1 depicts the stored structure of virtual relation IS_TERM.

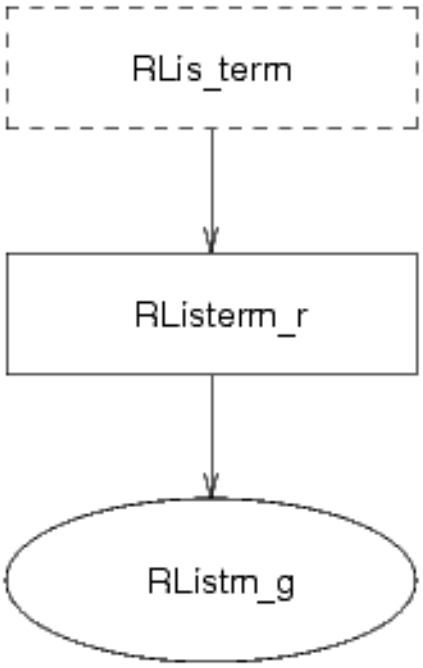


**Figure 1 Virtual Relation IS_TERM**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | FCtristerm |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| spare bits | 32I |

## 3. Field Layout

```
IS_TERM     relid = 862   DBSTATIC   DBACC_OPV   DBNOTODD  FP      NULL
 (a) termno      DMTERMNO     (uchar: 1)     <-- key
     lport       DMLPORT      (ushort: 16)    <--- key
     config      DMCONFIG     (ulong: 12)
 (b) cpetype     DMCPETYP     (enum: 3)
 (c) display     DMBOOL       (enum: 1)
```

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```
    acdgrp      DMACDGRP     (ushort: 10)
    latidx      DMLATIDX     (ushort: 5)
(d) time_mode   DMBOOL       (enum: 1)
    posnum      DMPNUM       (ushort: 14)
(e) ekts        DMEKTS       (enum: 2)
    eponum      DMEPONUM     (ushort: 14)
(f) privacy     DMPRIVACY    (enum: 2)
    ffcf7       DMUNS8       (ushort: 8)
(g) pasc        DMPASC_TYP   (enum: 2)
(h) cpepref     DMCPEPRF     (enum: 1)
(i) cpn_scrn    DMBOOL       (enum: 1)
(j) ffcf1       DMBOOL       (enum: 1)
(k) ffcf2       DMBOOL       (enum: 1)
(l) ffcf3       DMBOOL       (enum: 1)
(m) ffcf4       DMBOOL       (enum: 1)
(n) ffcf5       DMBOOL       (enum: 1)
(o) ffcf6       DMBOOL       (enum: 1)
(p) psap        DMBOOL       (enum: 1)
(q) alt         DMBOOL       (enum: 1)
(r) insp_ama    DMBOOL       (enum: 1)
(s) tsmed       DMBOOL       (enum: 1)
(t) tsming      DMBOOL       (enum: 1)
(u) auto_hold   DMBOOL       (enum: 1)
(v) one_touch   DMBOOL       (enum: 1)
    huntca      DMCALLAP     (uchar: 8)
    ltport_cnt  DMUNS6       (ushort: 6)
        User, Compacted and Stored Tuple Layout    IS_TERM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   | |                             |                               |
 0 |a|*****************************|             lport             |
   |---------------+---------------+---------------+---------------|
   |                         |     | |                   |         | |
 4 |          config         |  b  |c|       acdgrp      |  latidx |d|
   |---------------+---------------+---------------+---------------|
   |                             |   |                           |   |
 8 |            posnum           | e |            eponum        | f |
   |---------------+---------------+---------------+---------------|
   |               |   | | | | | | | | | | | | | |                 |
12 |     ffcf7     | g |h|i|j|k|l|m|n|o|p|q|r|s|t|*****************|
   |---------------+---------------+---------------+---------------|
   |                             | | |               |           |   |
16 |*****************************|u|v|     huntca    | ltport_cnt|***|
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |***************************************************************|
   |---------------+---------------+---------------+---------------|
      ( 24 bytes )
```

## 4. Population rules for RLis_term

### Relation Description

ISDN TERMINAL FEATURES

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Digital Subscriber Line Terminal Feature Data
QUANTITY OF TUPLES:
A RLis_term tuple is required for each terminal that has
a cpetype of IS_TYPEA, IS_TYPEB, IS_TYPEC, IS_TYPED,
IS_TYPEE, or IS_TYPATT."
This relation supports Simplified Custom ISDN Attendant - a TYPE D terminal with a servclass of FC_ISATND, providing attendant functionality for TYPE D terminals. This is a secured feature (SFID 292).

**Attribute:**
termno
**Fullname:**
ISDN Terminal Number
**Attribute Description:**
Terminal Number

**Attribute:**
lport
**Fullname:**
ISDN Terminal Logical Port
**Attribute Description:**
Logical port
Range: Always ISDN range.

**Attribute:**
config
**Fullname:**
ISDN Terminal Configuration Group Identifier
**Attribute Description:**
ISDN terminal configuration group identifier.
Must have RLfacname and RLfid2name
populated. (class = FACCONFIG, subclass =
SCL_NULL).
The value of RLis_term.config impacts the value of the RLspid.fip_req attribute. See the RLspid poprules for further details.

**Attribute:**
auto_hold
**Fullname:**
ISDN Terminal Auto Hold
**Attribute Description:**
Indicates if auto-hold or auto-drop applies to
a TMF type terminal (that is, cpetype = IS_TYPEB or IS_TYPED).
If DBYES then auto_hold.
If DBNO then auto_drop.
Either DBYES or DBNO is allowed for IS_TYPEB and
IS_TYPED terminals. Only DBNO is allowed for

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the other types of terminals. See cpetype attribute.

**Attribute:**
one_touch
**Fullname:**
ISDN Terminal One Touch
**Attribute Description:**
One touch operation indicator. Set to DBYES
if subscribed to this TMF feature.
Either DBYES or DBNO is allowed for IS_TYPEB and
IS_TYPED terminals. Only DBNO is allowed for
the other types of terminals. See cpetype attribute.

**Attribute:**
display
**Fullname:**
ISDN Terminal Display
**Attribute Description:**
Indicates whether there is a display module on the
station set.
For a standard BRI (RLdslequip.briclass == BRI_STD),
RLis_term.display is used to assign the Standard
Display feature. Standard Display feature allows
standard display information to appear on a standard
BRI CPE for outgoing and incoming calls. Information
is sent in the Q.931 Display Text Information Element.
The ISDN BRCS Individual Calling Line Identification
feature (such as, RLlid_cf.cnd_all) must be assigned
to allow the calling DN to be shown with the standard
display information. On a standard BRI, the ISDN BRCS
Outgoing Called Line Identification (OCLID) feature
is not used to provide displays for outgoing calls. A
standard BRI must have Standard Display feature assigned
(RLis_term.display == DBYES) and an ICLID feature
assigned to display information with the calling DN
for outgoing and incoming calls.
The Standard Display feature is a terminal feature
which means if RLis_term.display == DBYES, all call
appearances on the standard BRI CPE will receive
display information.

**Attribute:**
privacy
**Fullname:**
ISDN Terminal Privacy
**Attribute Description:**
Indicates whether the LT port (DN or Member)
associated with this terminal is
private. If privacy indicator is set to PRIVATE,
the LT port information will not be displayed at

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other terminals. If the privacy indicator is set to PUBLIC, the LT port information will be displayed at other terminals. If the privacy indicator is NOT_SET, the presentation status will depend on the setting of the acp_ind attribute in RLscridxpa or the office privacy parameter, Gldn_priv. Features such as the Incoming Calling Line ID (ICLID) feature and the inspect feature would check the privacy indicator before displaying any LT port information. If the Calling Party Number Presentation (CPNP) Special Feature is active (SFID50 is set), then the default value for the privacy attribute is NOT_SET, otherwise the default value is PUBLIC.

**Attribute:**
time_mode
**Fullname:**
ISDN Terminal Time Mode
**Attribute Description:**
Indicates whether the time should be displayed in 12-hour format (DBNO) or 24-hour (military time) format (DBYES). All features that display the time to the ISDN terminal will use this indicator.

**Attribute:**
cpepref
**Fullname:**
ISDN Terminal Call Appearance Preference
**Attribute Description:**
ISDN terminal call appearance preference indication. Either IS_IDLE or IS_RING is allowed for IS_TYPEB and IS_TYPED terminals. Only IS_IDLE is allowed for the other types of terminals. See cpetype attribute.

**Attribute:**
cpetype
**Fullname:**
ISDN Customer Premises Equipment Type
**Attribute Description:**
ISDN Customer Premises Equipment (terminal) type.
Range: IS_TYPEA, IS_TYPEB, IS_TYPEC
IS_TYPED, IS_TYPEE, IS_TYPATT.
The value of RLis_term.cpetype impacts the value of the RLspid.fip_req attribute. See the RLspid poprules for further details.
Beginning with 5E8, IS_TYPEA and IS_TYPEC are used for cpe on both custom (existing Lucent Technologies proprietary) and standard (Bellcore) cpe. The EKTS(TM) feature is the principal determinant controlling what other features may be assigned on a Standard terminal. The three EKTS(TM) cases are: no EKTS(TM), Basic EKTS(TM), and CACH

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EKTS(TM). 'no EKTS' on Std BRI is considered a TYPE A terminal.
Basic and CACH EKTS(TM) implies a TYPE C.

ISDN Terminal Descriptions - Part 1

| Terminal | Feature dial access | Feature button access | MCA | MDN + | SHDN$ | TMF | LT port* | SACOUNT pop.% |
|---|---|---|---|---|---|---|---|---|
| NON-ATT. TYPE A Cust BRI | Y | Y | Y | N | N | N | Y | Y |
| NON-ATT. TYPE A Std BRI | Y | Y | Y | N | N | N | Y | Y |
| NON-ATT. TYPE B | Y | Y | Y | N | N | Y | Y | Y |
| NON-ATT. TYPE C on Custom BRI or CACH on Std BRI | Y | Y | Y | Y | Y | N | Y | Y |
| NON-ATT. TYPE C BASIC Std BRI | Y | Y | Y | Y | Y | N | Y& | Y |
| NON-ATT. TYPE D | Y | Y | Y | Y | Y | Y | Y | Y |
| ATT. CONSOLE | Y | Y | Y | N | N | Y | Y | Y |
| NON-ATT. TYPE E | Y | Y | N?| N | N | N | Y | N |

ISDN Terminal Descriptions - Part 2

| Terminal | BUTTON TO LT port MAPPING# | CSV ACO | CSD ACO | ACD |
|---|---|---|---|---|
| NON-ATT. TYPE A Cust BRI | N | N | N | N |
| NON-ATT. TYPE A | N | Y | Y | N |

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| | | | | |
|---|---|---|---|---|
| Std BRI | | | | |
| NON-ATT. TYPE B | Y | N | N | Y |
| NON-ATT. TYPE C on Custom BRI or CACH on Std BRI | Y | N | N | N |
| NON-ATT. TYPE C BASIC Std BRI | N- | N | N | N |
| NON-ATT. TYPE D | Y | N | N | Y |
| ATT. CONSOLE | Y | N | N | N |
| NON-ATT. TYPE E | N | N | N | N |

ATT. - ATTENDANT
BASIC - EKTS(TM) service using Called/Calling DN
CACH - Call Appearance Call Handling EKTS(TM)
CA - Call Appearance
Custom - pre-5E8 Lucent Technologies ISDN interface
LT port - Logical Termination port
MCA - Multiple Call Appearance
MDN - Multiple Directory Numbers
SHDN - SHared Directory Numbers
Std - 5E8 Bellcore Standard ISDN interface
ACD - ACD/BRCS Position

* - LT port is a MLHG member/TN combined key. It is used as a key to ISDN BRCS relations.

& - MLHG members on Basic EKTS(TM) are required to have a DN.

$ - Primary MLHG member or Primary TN may be shared by Non-Attendant terminals types C or D. Non-Primary MLHG member or TN may also be shared by Non-Attendant terminal types C and D.

\+ - MDN in this ISDN context means having more than one DN assigned, each with its own appearance/set of appearances. This is distinguished from the multidn functionality which allows multiple DNs to be assigned on a single appearance/set of appearances, and for purposes of these rules is not considered MDN.

? - Multipile Call Appearances are not supported on this terminal type.

% - The subscriber subscribes to a number of subaddresses, up to 16. The subaddr_cnt attribute in rlIS_LINE is populated.

# - The following translation will exist.

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```
                    button number ==> LT port, SA
          Relations rlSHTERM, rlTERMKYDN are populated.
-   - Relations rlSHTERM, rlCGPN_LTM are populated
```

**Attribute:**
huntca
**Fullname:**
Highest ISDN call appearance.
**Attribute Description:**
Highest call appearance (RLtermkydn.ca value) that has ever been assigned to the isdn type c or d terminal ( for this is_term.lport ). It is used by RC/V view 23.21 Terminal Key System to speed up its processing. Whenever RC/V 23.21 is used in update mode, the huntca field is updated to the highest call appearance that is currently assigned to the terminal.
Basic EKTS(TM) terminals (which are marked as Type C) have huntca set to 0.
When RC/V view 23.20 is used to remove a list element, huntca is set to 0. When RC/V view 23.21 is used and huntca is 0, huntca is set to a value equal to the terminal's highest call appearance.

**Attribute:**
ltport_cnt
**Fullname:**
ISDN Terminal Logical Termination Port Count
**Attribute Description:**
Logical termination port count.
This represent the total number minus one of LT ports on this terminal.
Range: 0-63
Default: 0
Dependencies: If cpe_type is IS_TYPEA, IS_TYPEB, IS_TYPEE, IS_TYPATT, or IS_TYPED and an attendant, ltport_cnt must be 0.
For all termkydn tuples selected by
RLtermkydn.lport = RLis_term.lport and
RLtermkydn.termno = 0 and
RLtermkydn.ca in {1 thru 254} and
RLtermkydn.subaddr = 0
or in the special case of ekts = EKTS_BASIC,
for all RLcgpn_ltm tuples selected by
RLcgpn_ltm.lport = RLis_term.lport
the total number of tuples (either termkydn or cgpn_ltm as appropriate) must be the same as the ltport_cnt + 1 for cpe_type equal IS_TYPEC or IS_TYPED (not attendant).

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The value of RLis_term.ltport_cnt impacts the value of the RLspid.fip_req attribute. See the RLspid poprules or further details.

**Attribute:**
latidx
**Fullname:**
ISDN Terminal Logical Attendant Terminal Index
**Attribute Description:**
Logical ISDN attendant terminal index. Sequentially assigned number used to cause a dense packing of ISDN attendant keyed dynamic relations. The next available latidx is in the relation RLrc_lahol if there are unused latidx or in RLrc_qidx for the next available if there are no holes.

**Attribute:**
cpn_scrn
**Fullname:**
ISDN Terminal Calling Party Number Screening Indicator
**Attribute Description:**
This attribute is used to indicate if a user-provided calling party number (CPN) from an ISDN terminal should be screened by the switch on originations. If cpn_scrn is set to DBYES, the user-provided CPN will be matched against the primary directory number for the terminal. If the CPN does not match, it will be discarded and replaced with a switch provided CPN. This attribute should only be set to DBYES for those ISDN terminals that will supply a user-provided CPN. If cpn_scrn is set to DBNO, the switch will always provide the CPN even if the terminal sends a CPN. For terminals connected to a PBX, this attribute should always be set to DBNO since screening should not be done in a PBX.

**Attribute:**
posnum
**Fullname:**
position number
**Attribute Description:**
This attribute uniquely identifies an ACD/BRCS position. When this attribute has a value other than 0, this terminal is an ACD/BRCS position.
ACD/BRCS positions are required to have the following characteristics:
- circuit switch voice service
- service class of FC_ISDN
- DN features assigned
- terminal features assigned
- position DN which is primary

ACD/BRCS positions are not allowed to have the following

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characteristics or features:
- to be assigned to a Bellcore Standard BRI
- a shared primary (position) DN
- to be assigned series completion DNs
- a primary or secondary DN that is a MLHG member
- to be a circuit switch data MLHG member

For ACD/BRCS position DN feature requirements, see RLdn_feats.
For terminal feature requirements, see RLtrmfeats.
If posnum is not zero, there must be a tuple in RLACD_POS
for this posnum.

**Attribute:**
eponum
**Fullname:**
Enhanced Professional Office position number
**Attribute Description:**
This attribute uniquely identifies an Enhanced Professional Office (EPO) position. When this attribute has a value other than 0, this terminal is an EPO position.
EPO positions are required to have the following characteristics:
- circuit switch voice service
- originating service class of FC_ISDN
- terminal type B or D
- also supports Simplified ISAT which is service class FC_ISATND and terminal type D

EPO positions are not allowed to have the following characteristics or features:
- to be defined as an ACD/BRCS position
- to be assigned to a Bellcore Standard BRI
- both B channels configured for data only

If eponum is not zero, there must be a tuple in RLepo_pos
for this eponum.
The Enhanced Professional Office feature is a secured feature (SFID 179).

**Attribute:**
acdgrp
**Fullname:**
ACD/BRCS group number
**Attribute Description:**
This attribute uniquely identifies a "sub-terminal group" group to allow customers (or end-users) to divide their call centers into smaller groups. This will allow different groups to exist within the same ACD customer with the same level of security that exists between different ACD customers. When this attribute has a value of 1000, this ACD/BRCS group member will have unrestricted access to all "acdgrp" groups within the terminal group. RC and ODA does not currently support this "wild card" value.

**Attribute:**

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ffcf1
**Fullname:**
Boolean reserved for future field feature.
**Attribute Description:**
see fullname description.

**Attribute:**
ffcf2
**Fullname:**
Boolean reserved for future field feature.
**Attribute Description:**
see fullname description.

**Attribute:**
ffcf3
**Fullname:**
Boolean reserved for future field feature.
**Attribute Description:**
see fullname description.

**Attribute:**
ffcf4
**Fullname:**
Boolean reserved for future field feature.
**Attribute Description:**
see fullname description.

**Attribute:**
ffcf5
**Fullname:**
Boolean reserved for future field feature.
**Attribute Description:**
see fullname description.

**Attribute:**
ffcf6
**Fullname:**
bit reserved for future field feature use
**Attribute Description:**
Not assigned yet

**Attribute:**
ffcf7
**Fullname:**
unsigned 8 reserved for future field feature use
**Attribute Description:**
Not assigned yet

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**Attribute:**
psap
**Fullname:**
E911 ISDN Public Safety Answering Point Indicator
**Attribute Description:**
This is a boolean used to indicate if the primary DN of this terminal is an ISDN Public Safety Answering Point.

**Attribute:**
ekts
**Fullname:**
Electronic Key Telephone Service
**Attribute Description:**
Electronic Key Telephone Service is a service available only to terminals on Standard BRIs. All terminals on Custom BRIs must have ekts set to the null value (EKTS_NONE).
The ekts attribute defines the type of EKTS(TM) service assigned for this user. If a non-null (not EKTS_NONE) EKTS(TM) service is assigned, the user's terminal must support the variety of Q.931 EKTS(TM) protocol required for the version of EKTS(TM) service, that is, either Basic or CACH EKTS(TM).
Basic EKTS(TM) service (ekts=EKTS_BASIC) uses Calling/Called Party Number information elements to identify the calling/called DN in originating/terminating SETUP messages. The terminal may have only one appearance of each of its DNs.
CACH EKTS(TM) service (ekts=EKTS_CACH) uses the Call Appearance Information element to identify the calling/called DN in originating/terminating SETUP messages.
The terminal may have multiple appearances of each of its DNs.
If ekts is non-null, the cpetype must equal ISTYPE_C. If ekts is EKTS_NONE and the interface type on which the terminal resides is Standard, the cpetype must equal ISTYPE_A.
IMR 374393: The ISDN Intercom feature is not allowed on any standard BRIs except for EKTS_CACH standard BRIs.

**Attribute:**
pasc
**Fullname:**
Personal Communications Access Services on a C-Interface.
**Attribute Description:**
Personal Communications Access Services on a C-Interface.
A C-Interface is a BRI interface to a Radio Port Control Unit(RPCU) for wireless services to the end user.
For a given USOP if the value of this field is set to PASC_PCSI then the associated user to that USOP has PCS services on a ISDN interface on the 5ESS(R) for switching and routing PCS calls.

**Attribute:**

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alt

**Fullname:**

Personal Communications Services Automatic Link Transfer(ALT) feature allowed for this USOP.

**Attribute Description:**

Personal Communications Services Automatic Link Transfer(ALT) feature allowed for this USOP.
The ALT feature allows a PCS user to transfer an existing call from one RPCU to another.

**Attribute:**

insp_ama

**Fullname:**

Inspect ama usage-sensitive

**Attribute Description:**

The insp_ama field indicates the type of billing to be performed for the Inspect feature.
This is an enumeration of type DMBOOL.
The billing can be done on a flat rate or usage sensitive basis according to how the subscribing user prefers to be billed.
If insp_ama is set to DBYES, then the type of billing to be performed will be usage sensitive Inspect, whereas if it is set to DBNO, billing be done a flat rate basis. This usage sensitive Inspect billing is for National ISDN only.

**Attribute:**

tsmed

**Fullname:**

Telephone Status Monitor and Select (TSM) monitored terminal

**Attribute Description:**

Indicates if this terminal is being monitored by the TSM feature. It will be used primarily by the TM (Terminal Maintenance) subsytem. It is mapped to RLtedb.tsmed

**Attribute:**

tsming

**Fullname:**

Telephone Status Monitor and Select (TSM) monitoring terminal

**Attribute Description:**

Indicates if this terminal is using TSM to monitor another terminal. It can only be set for primary DNs and is mapped to the rlTEDB.tsming attribute.

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# ISACOF

## 1. Description

Maps an ACOF restriction to a button for each ISDN configuration group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8064 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
ISACOF      relid = 947   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     idp_gpid    DMIDP_GPID   (ushort)  <--- key
     config      DMCONFIG     (ulong: 12)  <--- key
 (a) cpe_comp    DMCPECOMP    (uchar: 3)
     button      DMBUTTON     (uchar: 8)
     actsetnum   DMIDACTSET   (ushort: 6)  <--- key
         User, Compacted and Stored Tuple Layout ISACOF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                       |     | |
  0 |            idp_gpid           |         config        |  a  |*|
    |---------------+---------------+---------------+---------------|
    |               |           |                                   |
  4 |     button    | actsetnum |***********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLisacof

**Relation Description:** ISDN ACOF

Maps an ACOF restriction to a button for each ISDN configuration group.

**Attribute: config**

**Fullname:** configuration group

**Attribute Description** ISDN configuration group This number must be created and put in RLfacname.facid and RLfid2name.facid before being assigned to RLis_term.config. Unassigned configurations exist only in the AM.

**Attribute: idp_gpid**

**Fullname:** individualized dialing plan group

**Attribute Description** Existence of this tuple implies existence of a RLidp_gp tuple with an idp_gpid attribute value matching the value of idp_gpid in this tuple. Moreover, the act_alwd

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attribute of that RLidp_gp tuple must have the value DBYES.

**Attribute: actsetnum**

**Fullname:** number assigned in the dialing plan for each valid individualized dialing code

**Attribute Description** The RLbnfeat.str_param, which has the same config as this relation (RLisacof) and RLbnfeat.action = ACN_IACOF, is the BCD version of this actsetnum. Existence of this tuple implies the existence of a Rlidp_act tuple keyed by RLisacof.idp_gpid and RLisacof.actsetnum.

**Attribute: cpe_comp**

**Fullname:** CPE component (module)

**Attribute Description** This cpe_comp must be the same as RLbnfeat.cpe_comp which has an action of ACN_IACOF and the same config as this relation.

**Attribute: button**

**Fullname:** ISDN station set button number

**Attribute Description** This button number must be the same as RLbnfeat.button which has an action of ACN_IACOF and the same config as this relation.

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# ISAFIDX

## 1. Description

This relation provides information associated with an ACOF button for a particular attendant configuration group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8064 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
ISAFIDX     relid = 1005  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     idp_gpid    DMIDP_GPID   (ushort)
     config      DMCONFIG     (ulong: 12)  <--- key
     mod         DMMODULE     (ushort: 8)
     actsetnum   DMIDACTSET   (ushort: 6)
     afidx       DMUNS5       (ushort: 5)  <--- key
         User, Compacted and Stored Tuple Layout    ISAFIDX
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                       |       |
  0 |            idp_gpid           |         config        |*******|
    |---------------+---------------+---------------+---------------|
    |               |           |   |         |                     |
  4 |      mod      | actsetnum |***|  afidx  |*********************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLisafidx

**Relation Description**
Information associated with ACOF button index.

Gives information associated with an attendant control of facilities (ACOF) button for a particular attendant configuration group.

**Attribute: config**

**Fullname:** ISDN configuration group

**Attribute Description** This number must be created and put in RLfacname.facid and RLfid2name.facid before being assigned to RLis_term.config. Unassigned configurations exist only in the AM.

**Attribute: afidx**

**Fullname:** ACOF button index

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**Attribute Description** This index is assigned in RLisatlmt in attribute afbitmap. See RLisatlmt.P for information on how the index is generated.

**Attribute: mod**

**Fullname:** Switching module on which control port resides

**Attribute Description** This mod is the same as in RLacoftran.lport_mod with the same config RLacoftran.config = RLisafidx.config.

**Attribute: idp_gpid**

**Fullname:** IDP group affected by this ACFO button

**Attribute Description** This idp_gpid is the same as in RLisacof.idp_gpid with the same config RLisacof.config = RLisafidx.config.

**Attribute: actsetnum**

**Fullname:** Alternate code treatment set number affected by this ACOF button

**Attribute Description** This idp_gpid is the same as in RLisacof.actsetnum with the same config RLisacof.config = RLisafidx.config

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# ISATGRP

## 1. Description

Associates isat hunt group number with ports of group members local to module.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 63 |
| expected tuples in relation | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
ISATGRP     relid = 900   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    GCRTG
     isat_idx     DMISATGRP     (ushort: 6)     <--- key
     config1      DMCONFIG      (ulong: 12)
     config2      DMCONFIG      (ulong: 12)
     config3      DMCONFIG      (ulong: 12)
     config4      DMCONFIG      (ulong: 12)
     cfwfid       DMMCC_FID     (ushort)
     map1         DMISATMAP     (uchar)
     map2         DMISATMAP     (uchar)
     map3         DMISATMAP     (uchar)
     map4         DMISATMAP     (uchar)
     map5         DMISATMAP     (uchar)
     map6         DMISATMAP     (uchar)
     map7         DMISATMAP     (uchar)
     map8         DMISATMAP     (uchar)
     map9         DMISATMAP     (uchar)
     map10        DMISATMAP     (uchar)
     map11        DMISATMAP     (uchar)
     map12        DMISATMAP     (uchar)
     map13        DMISATMAP     (uchar)
     map14        DMISATMAP     (uchar)
     map15        DMISATMAP     (uchar)
     map16        DMISATMAP     (uchar)
     mbrprt1      DMPORT        (ushort)
     mbrprt2      DMPORT        (ushort)
     mbrprt3      DMPORT        (ushort)
     mbrprt4      DMPORT        (ushort)
     mbrprt5      DMPORT        (ushort)
     mbrprt6      DMPORT        (ushort)
     mbrprt7      DMPORT        (ushort)
     mbrprt8      DMPORT        (ushort)
     mbrprt9      DMPORT        (ushort)
     mbrprt10     DMPORT        (ushort)
     mbrprt11     DMPORT        (ushort)
     mbrprt12     DMPORT        (ushort)
     mbrprt13     DMPORT        (ushort)
     mbrprt14     DMPORT        (ushort)
```

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```
mbrprt15    DMPORT      (ushort)
mbrprt16    DMPORT      (ushort)
mbrprt17    DMPORT      (ushort)
mbrprt18    DMPORT      (ushort)
mbrprt19    DMPORT      (ushort)
mbrprt20    DMPORT      (ushort)
mbrprt21    DMPORT      (ushort)
mbrprt22    DMPORT      (ushort)
mbrprt23    DMPORT      (ushort)
mbrprt24    DMPORT      (ushort)
mbrprt25    DMPORT      (ushort)
mbrprt26    DMPORT      (ushort)
mbrprt27    DMPORT      (ushort)
mbrprt28    DMPORT      (ushort)
mbrprt29    DMPORT      (ushort)
mbrprt30    DMPORT      (ushort)
mbrprt31    DMPORT      (ushort)
mbrprt32    DMPORT      (ushort)
mbrprt33    DMPORT      (ushort)
mbrprt34    DMPORT      (ushort)
mbrprt35    DMPORT      (ushort)
mbrprt36    DMPORT      (ushort)
mbrprt37    DMPORT      (ushort)
mbrprt38    DMPORT      (ushort)
mbrprt39    DMPORT      (ushort)
mbrprt40    DMPORT      (ushort)
mbrprt41    DMPORT      (ushort)
mbrprt42    DMPORT      (ushort)
mbrprt43    DMPORT      (ushort)
mbrprt44    DMPORT      (ushort)
mbrprt45    DMPORT      (ushort)
mbrprt46    DMPORT      (ushort)
mbrprt47    DMPORT      (ushort)
mbrprt48    DMPORT      (ushort)
mbrprt49    DMPORT      (ushort)
mbrprt50    DMPORT      (ushort)
mbrprt51    DMPORT      (ushort)
mbrprt52    DMPORT      (ushort)
mbrprt53    DMPORT      (ushort)
mbrprt54    DMPORT      (ushort)
mbrprt55    DMPORT      (ushort)
mbrprt56    DMPORT      (ushort)
mbrprt57    DMPORT      (ushort)
mbrprt58    DMPORT      (ushort)
mbrprt59    DMPORT      (ushort)
mbrprt60    DMPORT      (ushort)
mbrprt61    DMPORT      (ushort)
mbrprt62    DMPORT      (ushort)
mbrprt63    DMPORT      (ushort)
mbrmod1     DMMODULE    (ushort: 8)
mbrmod2     DMMODULE    (ushort: 8)
mbrmod3     DMMODULE    (ushort: 8)
mbrmod4     DMMODULE    (ushort: 8)
mbrmod5     DMMODULE    (ushort: 8)
```

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```
mbrmod6     DMMODULE     (ushort: 8)
mbrmod7     DMMODULE     (ushort: 8)
mbrmod8     DMMODULE     (ushort: 8)
mbrmod9     DMMODULE     (ushort: 8)
mbrmod10    DMMODULE     (ushort: 8)
mbrmod11    DMMODULE     (ushort: 8)
mbrmod12    DMMODULE     (ushort: 8)
mbrmod13    DMMODULE     (ushort: 8)
mbrmod14    DMMODULE     (ushort: 8)
mbrmod15    DMMODULE     (ushort: 8)
mbrmod16    DMMODULE     (ushort: 8)
mbrmod17    DMMODULE     (ushort: 8)
mbrmod18    DMMODULE     (ushort: 8)
mbrmod19    DMMODULE     (ushort: 8)
mbrmod20    DMMODULE     (ushort: 8)
mbrmod21    DMMODULE     (ushort: 8)
mbrmod22    DMMODULE     (ushort: 8)
mbrmod23    DMMODULE     (ushort: 8)
mbrmod24    DMMODULE     (ushort: 8)
mbrmod25    DMMODULE     (ushort: 8)
mbrmod26    DMMODULE     (ushort: 8)
mbrmod27    DMMODULE     (ushort: 8)
mbrmod28    DMMODULE     (ushort: 8)
mbrmod29    DMMODULE     (ushort: 8)
mbrmod30    DMMODULE     (ushort: 8)
mbrmod31    DMMODULE     (ushort: 8)
mbrmod32    DMMODULE     (ushort: 8)
mbrmod33    DMMODULE     (ushort: 8)
mbrmod34    DMMODULE     (ushort: 8)
mbrmod35    DMMODULE     (ushort: 8)
mbrmod36    DMMODULE     (ushort: 8)
mbrmod37    DMMODULE     (ushort: 8)
mbrmod38    DMMODULE     (ushort: 8)
mbrmod39    DMMODULE     (ushort: 8)
mbrmod40    DMMODULE     (ushort: 8)
mbrmod41    DMMODULE     (ushort: 8)
mbrmod42    DMMODULE     (ushort: 8)
mbrmod43    DMMODULE     (ushort: 8)
mbrmod44    DMMODULE     (ushort: 8)
mbrmod45    DMMODULE     (ushort: 8)
mbrmod46    DMMODULE     (ushort: 8)
mbrmod47    DMMODULE     (ushort: 8)
mbrmod48    DMMODULE     (ushort: 8)
mbrmod49    DMMODULE     (ushort: 8)
mbrmod50    DMMODULE     (ushort: 8)
mbrmod51    DMMODULE     (ushort: 8)
mbrmod52    DMMODULE     (ushort: 8)
mbrmod53    DMMODULE     (ushort: 8)
mbrmod54    DMMODULE     (ushort: 8)
mbrmod55    DMMODULE     (ushort: 8)
mbrmod56    DMMODULE     (ushort: 8)
mbrmod57    DMMODULE     (ushort: 8)
mbrmod58    DMMODULE     (ushort: 8)
mbrmod59    DMMODULE     (ushort: 8)
```

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```
    mbrmod60    DMMODULE     (ushort: 8)
    mbrmod61    DMMODULE     (ushort: 8)
    mbrmod62    DMMODULE     (ushort: 8)
    mbrmod63    DMMODULE     (ushort: 8)
    qbusy_dpn   DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
        User, Compacted and Stored Tuple Layout    ISATGRP
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |           |                       |                       |   |
 0 |  isat_idx |        config1        |        config2        |***|
   |---------------+---------------+---------------+---------------|
   |                       |                       |               |
 4 |        config3        |        config4        |***************|
   |---------------+---------------+---------------+---------------|
   |                               |               |               |
 8 |             cfwfid            |      map1     |      map2     |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
12 |      map3     |      map4     |      map5     |      map6     |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
16 |      map7     |      map8     |      map9     |     map10     |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
20 |     map11     |     map12     |     map13     |     map14     |
   |---------------+---------------+---------------+---------------|
   |               |               |                               |
24 |     map15     |     map16     |            mbrprt1            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
28 |            mbrprt2            |            mbrprt3            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
32 |            mbrprt4            |            mbrprt5            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
36 |            mbrprt6            |            mbrprt7            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
40 |            mbrprt8            |            mbrprt9            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
44 |            mbrprt10           |            mbrprt11           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
48 |            mbrprt12           |            mbrprt13           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
52 |            mbrprt14           |            mbrprt15           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
```

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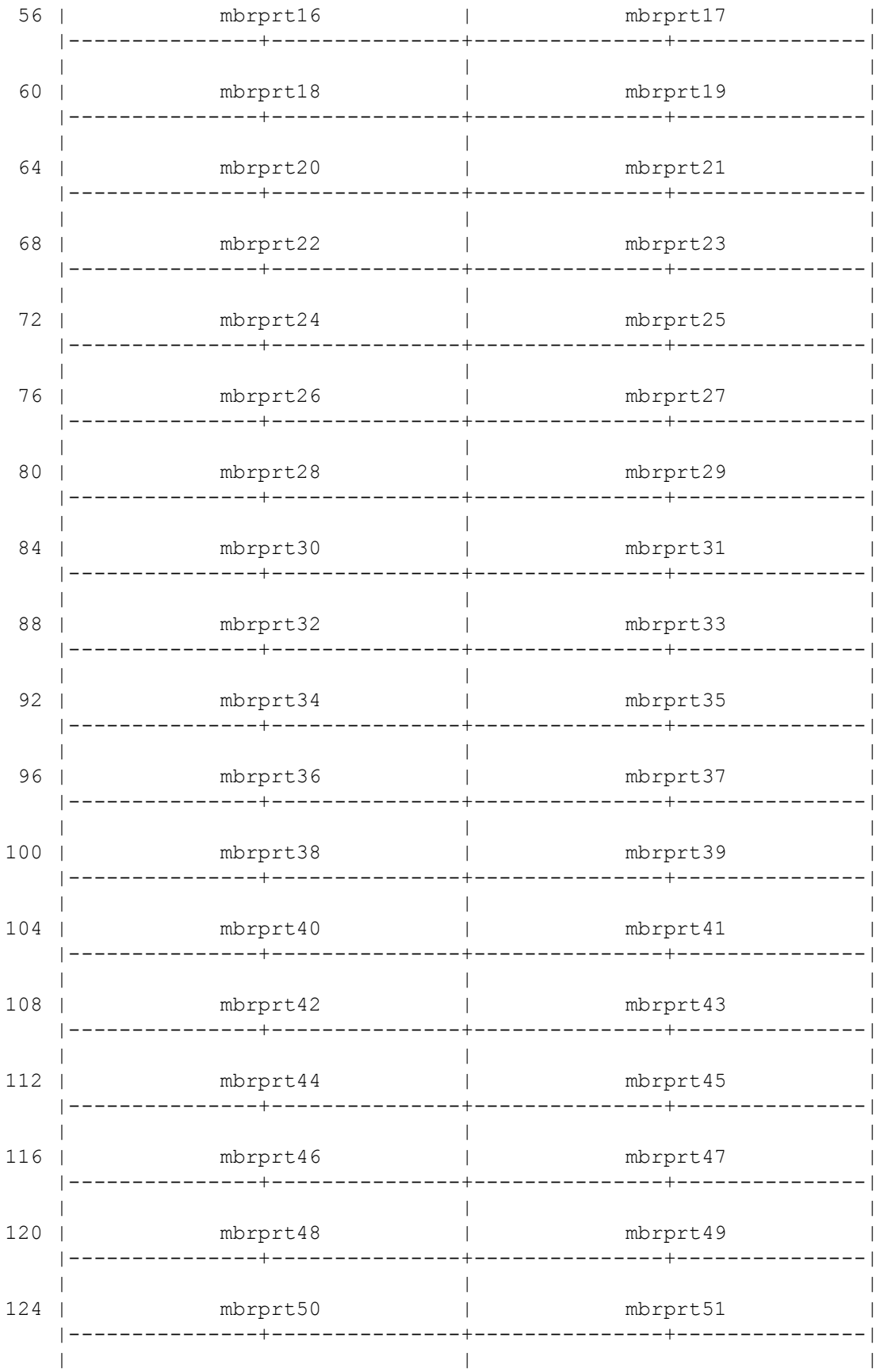


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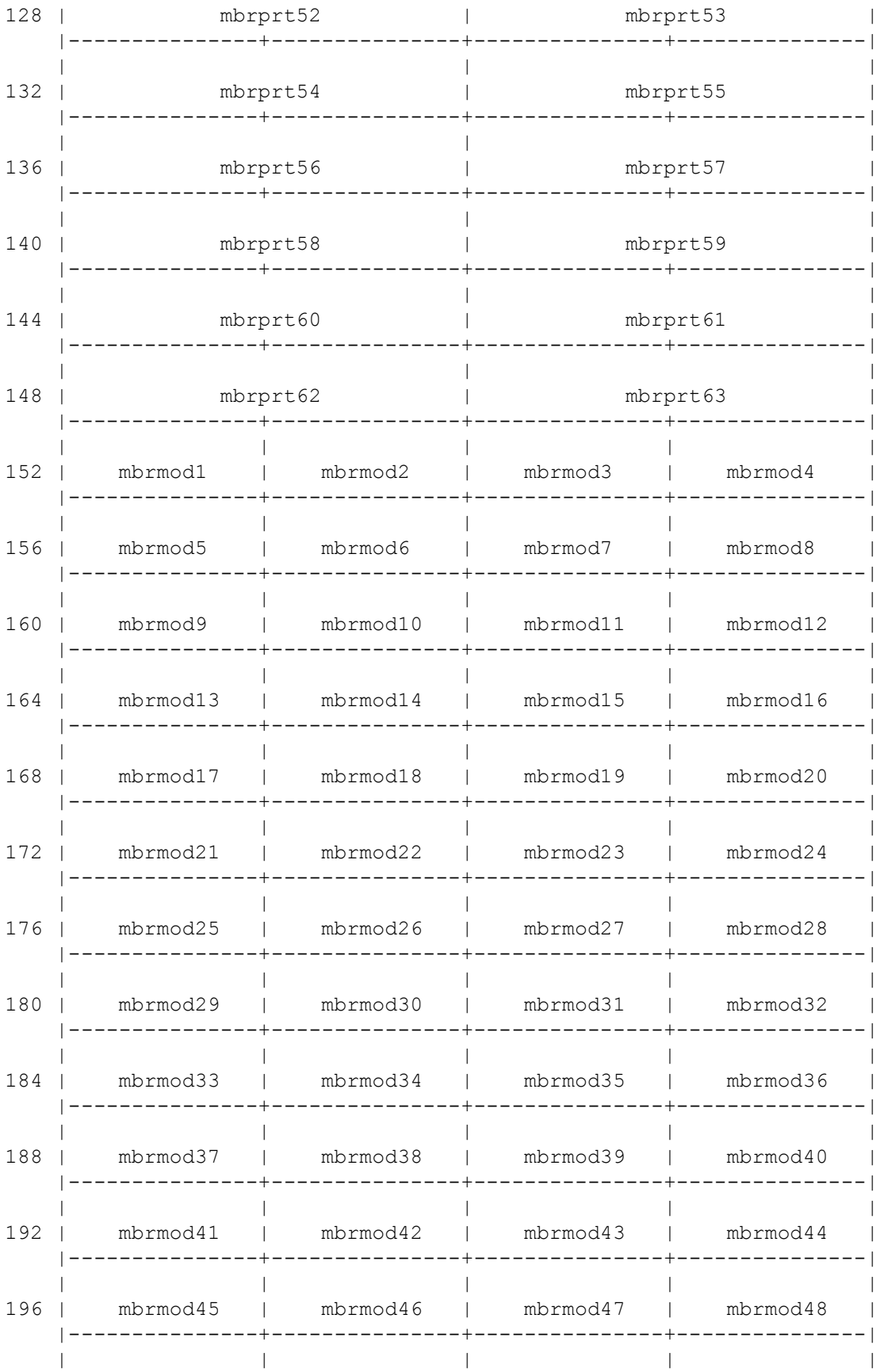


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```
200 |    mbrmod49   |    mbrmod50   |    mbrmod51   |    mbrmod52   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
204 |    mbrmod53   |    mbrmod54   |    mbrmod55   |    mbrmod56   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
208 |    mbrmod57   |    mbrmod58   |    mbrmod59   |    mbrmod60   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
212 |    mbrmod61   |    mbrmod62   |    mbrmod63   |***************|
    |===============+========== qbusy_dpn ==========+===============|
    |                               |               |               |
216 |             member            |***************|     module    |
    |===============+===============+===============+===============|
      ( 220 bytes )
domain alISATGRP   struct  (10 sub-attributes)
        isat_idx    .69.fake     (ushort: 6)
        config1     .70.fake     (ulong: 12)
        config2     .71.fake     (ulong: 12)
        config3     .72.fake     (ulong: 12)
        config4     .73.fake     (ulong: 12)
        cfwfid      unsigned short (ushort)
        mbrmap      .74.fake     (array [ 16 ] of unsigned char )
        mbr_port    .75.fake     (array [ 63 ] of unsigned short )
        mbr_mod     .76.fake     (array [ 63 ] of unsigned char )
        qbusy_dpn   .0fake       (struct)
            member      unsigned short (ushort)
            module      .0.fake      (ushort)
        Structure Layout      alISATGRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |           |                       |                       |   |
  0 |  isat_idx |        config1        |        config2        |***|
    |---------------+---------------+---------------+---------------|
    |                       |                       |               |
  4 |        config3        |        config4        |***************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |             cfwfid            |             mbrmap            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                             mbrmap                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                             mbrmap                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                             mbrmap                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 24 |             mbrmap            |            mbr_port           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
```

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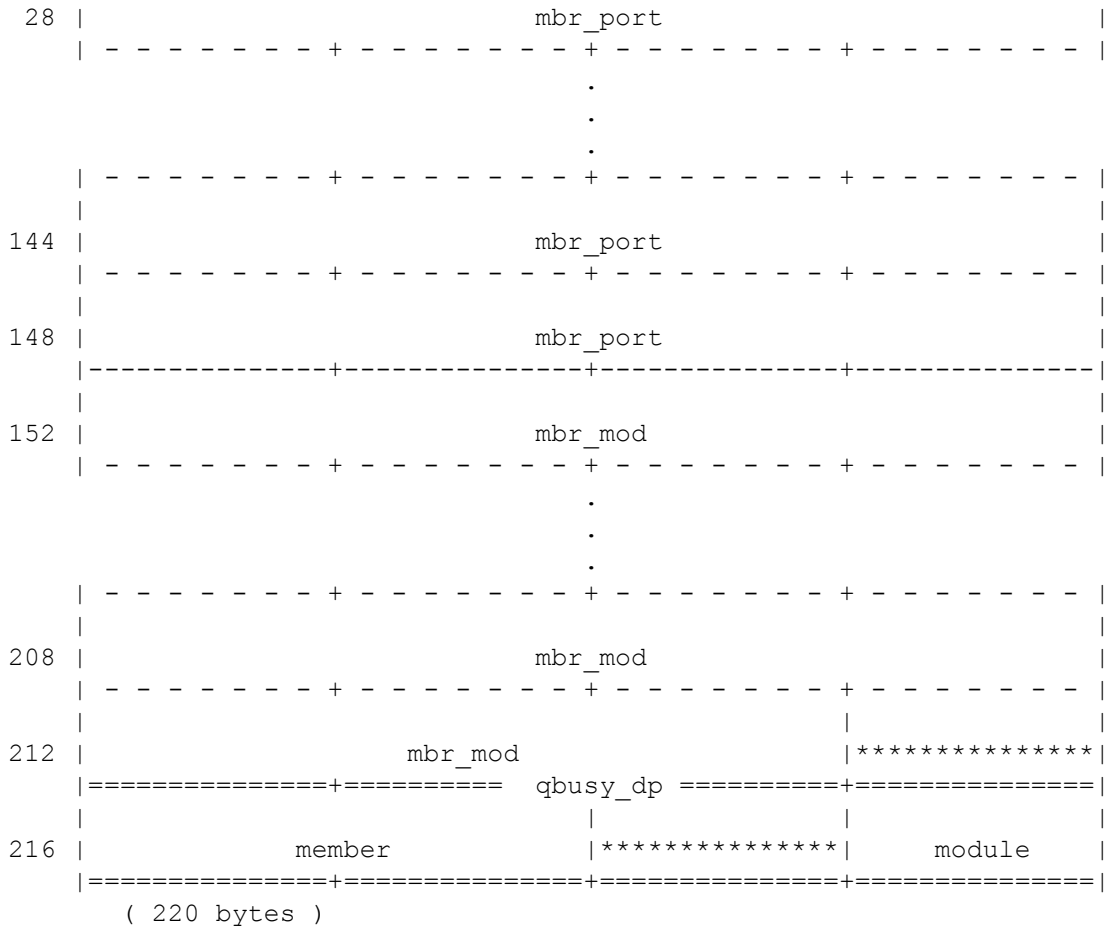


## 4. Population Rules for RLisatgrp

**Relation Description**
Associates isat hunt group number with ports of group members local to module.

For every RLisatgrp.config(i), { where (i) = 1, 2, 3, or 4 }, that is non-zero, a corresponding RLisatlmt tuple will exist keyed by RLisatgrp.config(i) = RLisatlmt.config. For every RLisatgrp.config(i), where (i) = 1, 2, 3, or 4, that is non-zero, this attribute cannot exist in any other tuple in this relation (RLisatgrp). The term ISAT refers to an ISDN Attendant Terminal. These terminals must be configured into hunt groups that are known as an ISAT multi-line hunt group.

**Attribute: isat_idx**

**Fullname:** isat index of ISAT hunt group
**Attribute Description** Index of ISdn attendant (ISAT) hunt group Dependency:
The tuple should exist on a given SM only if RLgroup_port.portgrp.grpnum = RLrt_mhg.grpnum and RLgroup_port.portgrp.grptype = TM_LINE.

**Attribute: config[*]**

**Fullname:** configuration group

**Attribute Description** Configuration group used by this group. Dependency:
For any member where mbrprt[i] is non zero and map indicates a 0 for config1 (1 for config2, 2 for config3, 3 for config4) at the i'th bit pair position, RLis_term keyed by lport(module and mbrprt)

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should have an equal RLis_term.config. If RLisatgrp.config[x] != 0, then a tuple will exist in RLisatlmt keyed by RLisatlmt.config = RLisatgrp.config[x].

**Attribute: cfwfid**

**Fullname:** call forwarding fid for the night service feature

**Attribute Description** Call forwarding fid for the night service feature. values: Most significant six bits = MFCFW from DMmftype. Least significant ten bits = any values except 0000000001.

Dependencies:
For member number 1 of this hunt group (obtain port and ltm_idx from RLgroup_port keyed by RLrt_mhg.grpnum and member=1), the RLdn_feats tuples keyed by this ltm_idx should contain this fid. Also, a tuple should exist in RLbnfeat on the module for member 1 keyed by the cpe component, button number and configuration which has RLbnfeat.fid = cfwfid and RLbnfeat.action = ACN_INIGHT. A tuple in RLfeatbn must also exist on the module for member 1 keyed by the magic fid for call forwarding (most significant six bits = MFCFW and least 10 significant 10 bits = 0000000001) and action = ACN_INIGHT.

**Attribute: map[*]**

**Fullname:** bit map of which members use which config groups

**Attribute Description** 128 bit wide map of which members use which config groups. Each attribute contains 8 bits which is the configuration data for 4 members of the hunt group.(2 bits for each member). The least significant 2 bits represents members 1,5,9 etc. The most significant 2 bits represents members 4,8,12 etc. The value in a particular 2 bit field shows which of the 4 configurations describes that member.

```
ms             ls
1    |- -|- -|- -|- -|
        4    3    2    1
2    |- -|- -|- -|- -|
        8    7    6    5
.
.
.
.
10   |- -|- -|- -|- -|
       40   39   38   37
11   |- -|- -|- -|- -|
       44   43   42   41
12   |- -|- -|- -|- -|
       48   47   46   45
13   |- -|- -|- -|- -|
       52   51   50   49
14   |- -|- -|- -|- -|
       56   55   54   53
15   |- -|- -|- -|- -|
       60   59   58   57
16     |- -|- -|- -|
          63   62   61
```

Only 4 configurations are allowed to be mixed in a given hunt group.

DEPENDENCIES:
If the i'th index in the mbrprt array is 0, the i'th bit pair position in map must be 0. If the mbrprt array

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field is nonzero, then if when the port in the mbrprt array field is translated to lport and for RLis_term.lport, the RLis_term.config group is config1, then the i'th position in the bit map must be 0, if it is config2, the bit should be 1, if it is config3, the bit map should be 2, if it is config4, the bit map should be 3:

```
config1       00
config2       01
config3       10
config4       11
```

**Attribute: mbrprt[*]**

**Fullname:** D-channel ports for members of this hunt group

**Attribute Description** Positional list of D-channel ports for members of this hunt group if on this module.

```
mbrprt1 = member # 1
   .
   .
mbrprtISATMAXMEM = member #ISATMAXMEM
```

Dependency:
If RLgroup_port.portgrp.grpnum = RLrt_mhg.grpnum (whose RLrt_mhg.isat_idx = this RLisatgrp.isat_idx), RLgroup_port.portgrp.grptype = TM_LINE, and RLgroup_port.member = member number (1-ISATMAXMEM) does not exist on the AM, then the value must be 0.

**Attribute: mbrmod[*]**

**Fullname:** module number

**Attribute Description** Positional list of modules numbers for members of this hunt group.

```
mbr_mod1 = module where member #1 resides.
mbr_mod2 = module where member #2 resides.
   ...
   ...
mbr_modISATMAXMEM = module where member #ISATMAXMEM resides.
```

Dependency:
If RLgroup_port.portgrp.grpnum = RLrt_mhg.grpnum (whose RLrt_mhg.isat_idx = this RLisatgrp.isat_idx), RLgroup_port.portgrp.grptype = TM_LINE, and RLgroup_port.member = member number (1-ISATMAXMEM) does not exist on the AM, then the value must be 0.

**Attribute: qbusy_dpn**

**Fullname:** Queue Busy Distribution Point

**Attribute Description** Used to alert when an ISAT MLHG queue is full. The distribution point closes to activate a lamp when the queue is full. Once the queue is no longer full, the distribution point opens to deactivate the lamp.

**Attribute: qbusy_dpn.member**

**Fullname:** Queue Busy Distribution Point Port

**Attribute Description** qbusy_dpn.member is the port that the distribution point is located on.

**Attribute: qbusy_dpn.module**

**Fullname:** Queue Busy Distribution Point Module

**Attribute Description** qbusy_dpn.module is the module that the distribution point is associated with.

**Defines:**"db/DMport.h"

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# ISATLMT

## 1. Description

Gives number of DTGS, ACOF, and hundreds group select buttons for a particular attendant configuration group.

```
Maximum number of tuples derived as follows:
252    63 Maximum ISAT MLHG (isat_idx)
     x  4 configs (limited in RLisatgrp
The expected tuple data was extracted from a study of field equipment.
(AVISATGRPS  * 4) > 252)
  syntax - The number of ISATLMTs needed has exceeded the maximum engineered
```

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 252 |
| expected number of tuples | 2 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
ISATLMT     relid = 1004  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     tgbitmap    DMUSHORT     (ushort)
     config      DMCONFIG     (ulong: 12)  <--- key
     afbitmap    DMULONG      (ulong)
         User, Compacted and Stored Tuple Layout    ISATLMT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                       |       |
  0 |            tgbitmap           |         config        |*******|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            afbitmap                           |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLisatlmt

**Relation Description**
Integrated services digital network (ISDN) attendant button limits.

Gives number of direct trunk group selection (DTGS), and attendant control of facilities (ACOF) buttons for a particular attendant configuration group. The following two bit-map attributes represent the presence of DTGS buttons, and ACOF buttons. The number of bits in each bit map represent the maximum number of a specific type of button which may be present on an attendant console. A bit set to '1' indicates a button is present and has been assigned the index corresponding to the location of the bit in the bit map (rightmost bit is bit 0). For example, if the tgbitmap looks like: 0000000010100101 then this configuration group has four DTGS buttons with indexes of 0, 2, 5, and 7. The index for a button is used to identify the button in other related relations. See the poprules for each bit map for the appropriate relations for each button type.

**Attribute: config**

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**Fullname:** ISDN configuration group

**Attribute Description** This number must be created and put in RLfacname.facid and RLfid2name.facid before being assigned to RLis_term.config. Unassigned configurations exist only in the AM.

**Attribute: tgbitmap**

**Fullname:** Bit map of DTGS buttons

**Attribute Description** DTGS buttons are assigned in RLbnfeat with action ACN_IDTGS. The relations which use the index assigned to each DTGS button are RListgidx and RLdtgstran.

Dependencies:

(1) The number of tuples in RLbnfeat for this config with action ACN_IDTGS must equal the number of '1's in this bit map.

(2) For every bit set to '1', there should be a tuple in RListgidx such that:
```
rlISTGIDX.config = rlISATLMT.config
rlISTGIDX.tgidx = position of this bit in the bit map
```

**Attribute: afbitmap**

**Fullname:** Bit maps of ACOF buttons

**Attribute Description** ACOF buttons are assigned in RLbnfeat with action ACN_IACOF. The relations which use the index assigned to each ACOF button are RLisafidx and RLacoftran.
Dependencies:

(1) The number of tuples in RLbnfeat for this config with action ACN_IACOF must equal the number of '1's in this bit map.

(2) For every bit set to '1', there should be a tuple in RLisafidx such that:
```
rlISAFIDX.config = rlISATLMT.config
rlISAFIDX.afidx = position of this bit in the bit map
```

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# ISATMBR

## 1. Description

Associates isat hunt group number with ICI subsets handled by each member, ICI subsets classed under each priority and the call waiting lamp threshold.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 63 |
| expected tuples in relation | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | RTqhdcr |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
ISATMBR     relid = 901   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     isat_idx    DMISATGRP    (ushort: 6)  <--- key
     cwthres     DMUNS8       (ushort: 8)
     icisbg1     DMHEX16      (ushort)
     icisbg2     DMHEX16      (ushort)
     icisbg3     DMHEX16      (ushort)
     icisbg4     DMHEX16      (ushort)
     icisbg5     DMHEX16      (ushort)
     icisbg6     DMHEX16      (ushort)
     icisbg7     DMHEX16      (ushort)
     icisbg8     DMHEX16      (ushort)
     icisbg9     DMHEX16      (ushort)
     icisbg10    DMHEX16      (ushort)
     icisbg11    DMHEX16      (ushort)
     icisbg12    DMHEX16      (ushort)
     icisbg13    DMHEX16      (ushort)
     icisbg14    DMHEX16      (ushort)
     icisbg15    DMHEX16      (ushort)
     icisbg16    DMHEX16      (ushort)
     icisbg17    DMHEX16      (ushort)
     icisbg18    DMHEX16      (ushort)
     icisbg19    DMHEX16      (ushort)
     icisbg20    DMHEX16      (ushort)
     icisbg21    DMHEX16      (ushort)
     icisbg22    DMHEX16      (ushort)
     icisbg23    DMHEX16      (ushort)
     icisbg24    DMHEX16      (ushort)
     icisbg25    DMHEX16      (ushort)
     icisbg26    DMHEX16      (ushort)
     icisbg27    DMHEX16      (ushort)
     icisbg28    DMHEX16      (ushort)
     icisbg29    DMHEX16      (ushort)
     icisbg30    DMHEX16      (ushort)
```

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```
    icisbg31    DMHEX16      (ushort)
    icisbg32    DMHEX16      (ushort)
    icisbg33    DMHEX16      (ushort)
    icisbg34    DMHEX16      (ushort)
    icisbg35    DMHEX16      (ushort)
    icisbg36    DMHEX16      (ushort)
    icisbg37    DMHEX16      (ushort)
    icisbg38    DMHEX16      (ushort)
    icisbg39    DMHEX16      (ushort)
    icisbg40    DMHEX16      (ushort)
    icisbg41    DMHEX16      (ushort)
    icisbg42    DMHEX16      (ushort)
    icisbg43    DMHEX16      (ushort)
    icisbg44    DMHEX16      (ushort)
    icisbg45    DMHEX16      (ushort)
    icisbg46    DMHEX16      (ushort)
    icisbg47    DMHEX16      (ushort)
    icisbg48    DMHEX16      (ushort)
    icisbg49    DMHEX16      (ushort)
    icisbg50    DMHEX16      (ushort)
    icisbg51    DMHEX16      (ushort)
    icisbg52    DMHEX16      (ushort)
    icisbg53    DMHEX16      (ushort)
    icisbg54    DMHEX16      (ushort)
    icisbg55    DMHEX16      (ushort)
    icisbg56    DMHEX16      (ushort)
    icisbg57    DMHEX16      (ushort)
    icisbg58    DMHEX16      (ushort)
    icisbg59    DMHEX16      (ushort)
    icisbg60    DMHEX16      (ushort)
    icisbg61    DMHEX16      (ushort)
    icisbg62    DMHEX16      (ushort)
    icisbg63    DMHEX16      (ushort)
    ici_pri1    DMHEX16      (ushort)
    ici_pri2    DMHEX16      (ushort)
    ici_pri3    DMHEX16      (ushort)
    ici_pri4    DMHEX16      (ushort)
    ici_pri5    DMHEX16      (ushort)
    ici_pri6    DMHEX16      (ushort)
    ici_pri7    DMHEX16      (ushort)
    ici_pri8    DMHEX16      (ushort)
    isat_thresh  DMUNS8       (ushort: 8)
        User, Compacted and Stored Tuple Layout    ISATMBR
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---+-------------------------------|
   |               |               |   |                               |
 0 |  isat_idx     |    cwthres    |***|            icisbg1            |
   |---------------+---------------+---+-------------------------------|
   |                               |                                   |
 4 |            icisbg2            |            icisbg3            |
   |---------------+---------------+---+-------------------------------|
   |                               |                                   |
 8 |            icisbg4            |            icisbg5            |
```

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| | | |
|---|---|---|
| 12 | icisbg6 | icisbg7 |
| 16 | icisbg8 | icisbg9 |
| 20 | icisbg10 | icisbg11 |
| 24 | icisbg12 | icisbg13 |
| 28 | icisbg14 | icisbg15 |
| 32 | icisbg16 | icisbg17 |
| 36 | icisbg18 | icisbg19 |
| 40 | icisbg20 | icisbg21 |
| 44 | icisbg22 | icisbg23 |
| 48 | icisbg24 | icisbg25 |
| 52 | icisbg26 | icisbg27 |
| 56 | icisbg28 | icisbg29 |
| 60 | icisbg30 | icisbg31 |
| 64 | icisbg32 | icisbg33 |
| 68 | icisbg34 | icisbg35 |
| 72 | icisbg36 | icisbg37 |
| 76 | icisbg38 | icisbg39 |
| 80 | icisbg40 | icisbg41 |

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```
    |--------------+--------------+--------------+--------------|
    |                             |                             |
 84 |            icisbg42         |            icisbg43         |
    |--------------+--------------+--------------+--------------|
    |                             |                             |
 88 |            icisbg44         |            icisbg45         |
    |--------------+--------------+--------------+--------------|
    |                             |                             |
 92 |            icisbg46         |            icisbg47         |
    |--------------+--------------+--------------+--------------|
    |                             |                             |
 96 |            icisbg48         |            icisbg49         |
    |--------------+--------------+--------------+--------------|
    |                             |                             |
100 |            icisbg50         |            icisbg51         |
    |--------------+--------------+--------------+--------------|
    |                             |                             |
104 |            icisbg52         |            icisbg53         |
    |--------------+--------------+--------------+--------------|
    |                             |                             |
108 |            icisbg54         |            icisbg55         |
    |--------------+--------------+--------------+--------------|
    |                             |                             |
112 |            icisbg56         |            icisbg57         |
    |--------------+--------------+--------------+--------------|
    |                             |                             |
116 |            icisbg58         |            icisbg59         |
    |--------------+--------------+--------------+--------------|
    |                             |                             |
120 |            icisbg60         |            icisbg61         |
    |--------------+--------------+--------------+--------------|
    |                             |                             |
124 |            icisbg62         |            icisbg63         |
    |--------------+--------------+--------------+--------------|
    |                             |                             |
128 |            ici_pri1         |            ici_pri2         |
    |--------------+--------------+--------------+--------------|
    |                             |                             |
132 |            ici_pri3         |            ici_pri4         |
    |--------------+--------------+--------------+--------------|
    |                             |                             |
136 |            ici_pri5         |            ici_pri6         |
    |--------------+--------------+--------------+--------------|
    |                             |                             |
140 |            ici_pri7         |            ici_pri8         |
    |--------------+--------------+--------------+--------------|
    |              |                                            |
144 |  isat_thresh |********************************************|
    |--------------+--------------+--------------+--------------|
      ( 148 bytes )
domain alISATMBR   struct  (5 sub-attributes)
        isat_idx    .3.fake      (ushort: 6)
        cwthres     .4.fake      (ushort)
        ici_subr    .5.fake      (array [ 63 ] of unsigned short )
```

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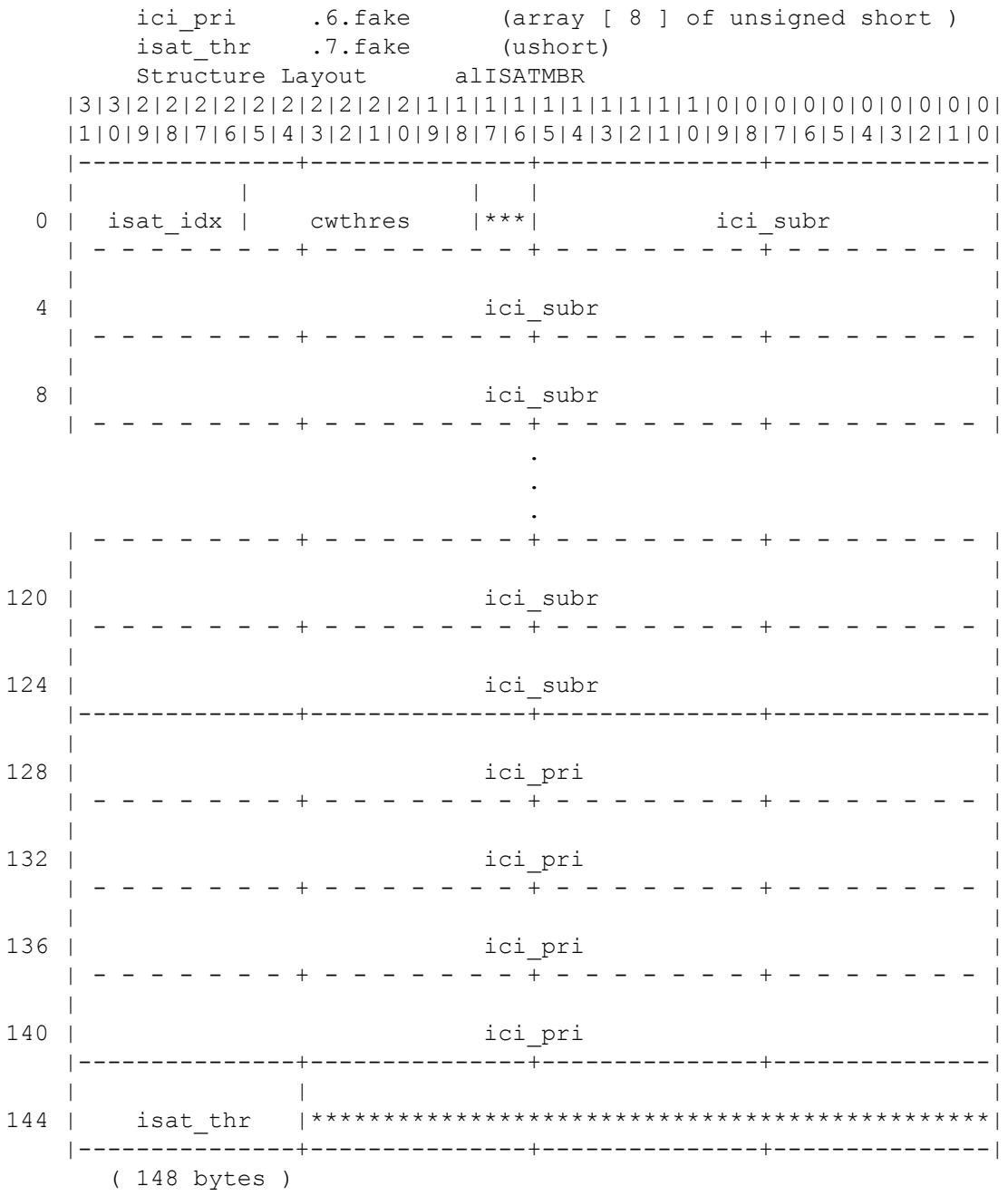


## 4. Population Rules for RLisatmbr

**Relation Description**
ISDN Attendant Member.

Associates isat hunt group number with ICI subsets handled by each member, ICI subsets class under each priority and the call waiting lamp threshold.

**Attribute: isat_idx**

**Fullname:** ISAT index of ISAT hunt group

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**Attribute Description** This is an abstract form of a multi-line hunt group number.
Value: 1-63

**Attribute: cwthres**

**Fullname:** Call waiting warning threshold

**Attribute Description** cwthres is used to turn on/off the call waiting warning lamp. This lamp is turned on when the number of calls in queue exceeds this value. The call waiting warning lamp remains lit when the calls in queue are equal to cwthres value. The call waiting warning lamp is turned off when the calls in the queue fall below the cwthres value. Values: 0-255. A value of 0 means that there is no call waiting warning lamp.
Default: 0

Dependency:
If the queuing feature, as specified by the tuple keyed by RLqu_cfdfl.feat_id, has RLqu_cfdfl.cwl = DBNO, to indicate no call waiting lamps assigned, then the cwthres should be 0 and will not be used. NOTE: ISAT groups can only have call waiting lamps that light based on number of calls. If cwthres is non-zero the RLqu_cfdfl.cwl must be DBYES and RLqu_cfdfl.threstyp must be IS_N.

**Attribute: icisbg[*]**

**Fullname:** ici bit maps for which ici's the member handles.

**Attribute Description** icisbg1 thru icisbg(ISATMAXMEM): Positional list of ISATMAXMEM 16 bit values representing ici's assigned to each hunt group member. Bits in each 16 bit quantity show the ici's that are subscribed to by that member. The least significant bit corresponds to ici_idx of 0. The most significant bit corresponds to ici_idx of 15. When a bit is set to 1 then that particular ici_idx can be served by this member. More than 1 ici can be served by a given member. ici_idx's shown here must be either identical to or a subset of those shown in RLicx_ici.ici1-16 for this isat_idx. If member does not exist, its indexed slot will be 0. If member does exist, the value must be non-zero. Values: 0-0xffff Dependency: If RLgroup_port in the AM keyed by RLrt_mhg.isat_idx and this index number does not exist on the AM, then value must be 0. Otherwise value must be non-zero. If the ISAT group subscribes to the emergency ici (ICI_EMER) then all members of that group must subscribe to ICI_EMER.

Note: The previous rules is being enforced in RLicx_ici.p
Default: 0

**Attribute: ici_pri[*]**

**Fullname:** ici bit maps for which ici's the priority includes.

**Attribute Description** ici_pri1 thru ici_pri8: Positional list of 8 16 bit quantities representing relative priorities of ici's that can be served by this hunt group. Every indicated ici_idx must have a priority value.
`ici_pri1 shows the ici's with the highest priority. (1)`
`ici_pri8 shows the ici's with the lowest priority. (8)`
The default priority for ICI_QUE is 1. The bit position with the 16 bit quantity shows which ici's have that given priority. The attribute ici_idx is used to compute this bit position.
`ici_idx = 0 refers to the least significant bit and`
`ici_idx = 15 refers to the most significant bit.`
More than 1 ici can be served with the same priority. If the priority is not used, its indexed slot will be 0. If priority is used, the value must be non-zero, and must indicate the ici(s) assigned that priority.

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Values: 0-0xffff
Dependency: If an ici's bit is set in one ici_pri attribute, it must not be set in any other. A given ici can have only one priority.
Default: 0

**Attribute: isat_thresh**

**Fullname:** ISAT threshold value for QWARN lamp

**Attribute Description** isat_thresh is used for ISAT MLHGs that have QWARN lamp. When the number of calls in the basic portion of the queue exceeds the isat_thresh value, the QWARN lamp is lit on all consoles that have the feature button assigned for the lamp. Once the number of calls falls below isat_thresh, the QWARN lamp is extinguished.

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# ISATMOD

## 1. Description

Associates isat hunt group number with modules of members.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples = max nmbr ISAT hunt grps | 63 |
| expected tuples in relation | 2 |
| density | 36 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFP |
| application | GCRTG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
ISATMOD     relid = 910   DBSTATIC   DBACC_CIND  DBPRAM    LPFP    GCRTG
     isat_idx    DMISATGRP    (ushort: 6)  <--- key
     mbrmod1     DMUCHR1      (uchar)
     mbrmod2     DMUCHR1      (uchar)
     mbrmod3     DMUCHR1      (uchar)
     mbrmod4     DMUCHR1      (uchar)
     mbrmod5     DMUCHR1      (uchar)
     mbrmod6     DMUCHR1      (uchar)
     mbrmod7     DMUCHR1      (uchar)
     mbrmod8     DMUCHR1      (uchar)
     mbrmod9     DMUCHR1      (uchar)
     mbrmod10    DMUCHR1      (uchar)
     mbrmod11    DMUCHR1      (uchar)
     mbrmod12    DMUCHR1      (uchar)
     mbrmod13    DMUCHR1      (uchar)
     mbrmod14    DMUCHR1      (uchar)
     mbrmod15    DMUCHR1      (uchar)
     mbrmod16    DMUCHR1      (uchar)
     mbrmod17    DMUCHR1      (uchar)
     mbrmod18    DMUCHR1      (uchar)
     mbrmod19    DMUCHR1      (uchar)
     mbrmod20    DMUCHR1      (uchar)
     mbrmod21    DMUCHR1      (uchar)
     mbrmod22    DMUCHR1      (uchar)
     mbrmod23    DMUCHR1      (uchar)
     mbrmod24    DMUCHR1      (uchar)
     mbrmod25    DMUCHR1      (uchar)
     mbrmod26    DMUCHR1      (uchar)
     mbrmod27    DMUCHR1      (uchar)
     mbrmod28    DMUCHR1      (uchar)
     mbrmod29    DMUCHR1      (uchar)
     mbrmod30    DMUCHR1      (uchar)
     mbrmod31    DMUCHR1      (uchar)
     mbrmod32    DMUCHR1      (uchar)
     mbrmod33    DMUCHR1      (uchar)
     mbrmod34    DMUCHR1      (uchar)
```

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```
    mbrmod35    DMUCHR1      (uchar)
    mbrmod36    DMUCHR1      (uchar)
    mbrmod37    DMUCHR1      (uchar)
    mbrmod38    DMUCHR1      (uchar)
    mbrmod39    DMUCHR1      (uchar)
    mbrmod40    DMUCHR1      (uchar)
    mbrmod41    DMUCHR1      (uchar)
    mbrmod42    DMUCHR1      (uchar)
    mbrmod43    DMUCHR1      (uchar)
    mbrmod44    DMUCHR1      (uchar)
    mbrmod45    DMUCHR1      (uchar)
    mbrmod46    DMUCHR1      (uchar)
    mbrmod47    DMUCHR1      (uchar)
    mbrmod48    DMUCHR1      (uchar)
    mbrmod49    DMUCHR1      (uchar)
    mbrmod50    DMUCHR1      (uchar)
    mbrmod51    DMUCHR1      (uchar)
    mbrmod52    DMUCHR1      (uchar)
    mbrmod53    DMUCHR1      (uchar)
    mbrmod54    DMUCHR1      (uchar)
    mbrmod55    DMUCHR1      (uchar)
    mbrmod56    DMUCHR1      (uchar)
    mbrmod57    DMUCHR1      (uchar)
    mbrmod58    DMUCHR1      (uchar)
    mbrmod59    DMUCHR1      (uchar)
    mbrmod60    DMUCHR1      (uchar)
    mbrmod61    DMUCHR1      (uchar)
    mbrmod62    DMUCHR1      (uchar)
    mbrmod63    DMUCHR1      (uchar)
        User, Compacted and Stored Tuple Layout    ISATMOD
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |   |           |               |               |
 0 |  isat_idx     |***|   mbrmod1     |    mbrmod2    |    mbrmod3    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 4 |    mbrmod4    |    mbrmod5    |    mbrmod6    |    mbrmod7    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 8 |    mbrmod8    |    mbrmod9    |    mbrmod10   |    mbrmod11   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
12 |    mbrmod12   |    mbrmod13   |    mbrmod14   |    mbrmod15   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
16 |    mbrmod16   |    mbrmod17   |    mbrmod18   |    mbrmod19   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
20 |    mbrmod20   |    mbrmod21   |    mbrmod22   |    mbrmod23   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
24 |    mbrmod24   |    mbrmod25   |    mbrmod26   |    mbrmod27   |
   |---------------+---------------+---------------+---------------|
```

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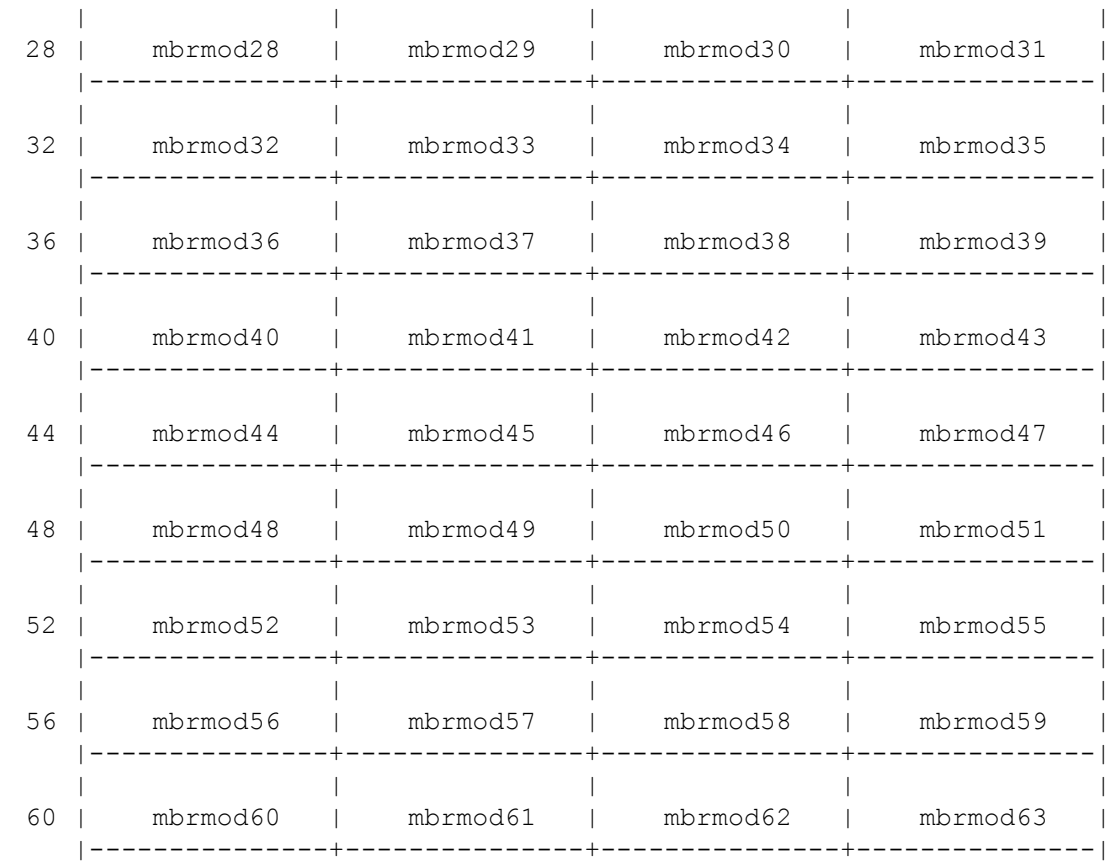
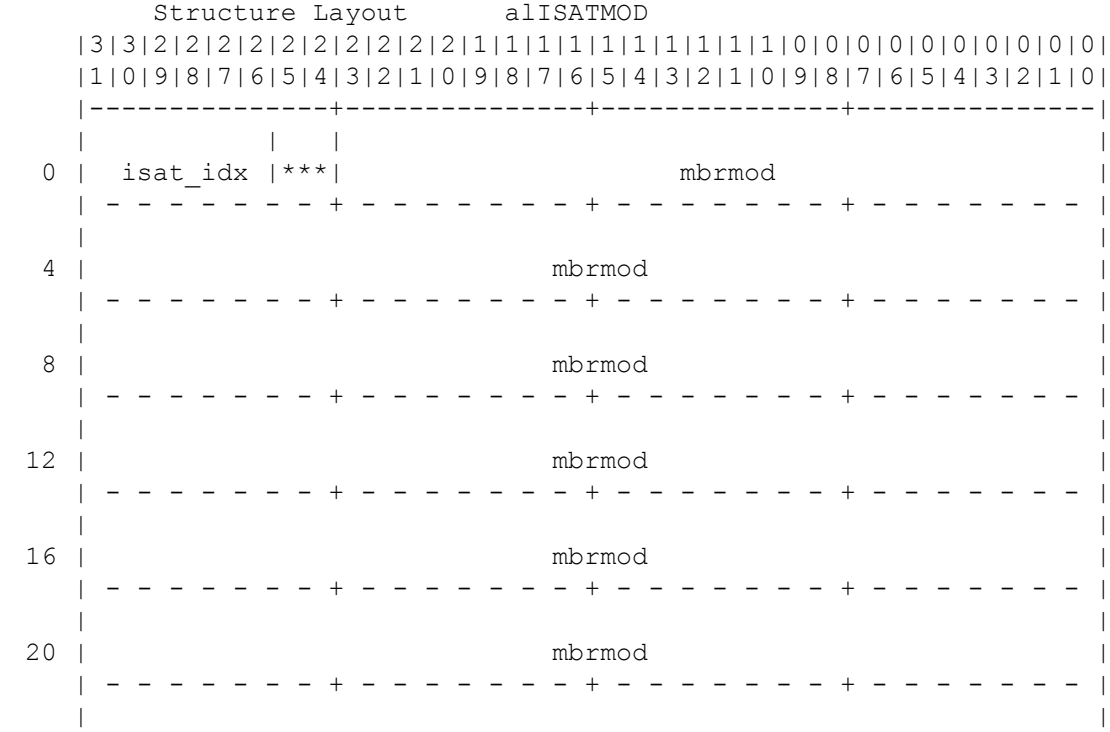



( 64 bytes )

```
domain alISATMOD   struct  (2 sub-attributes)
        isat_idx    .1.fake      (ushort: 6)
        mbrmod      .2.fake      (array [ 63 ] of unsigned char )
```

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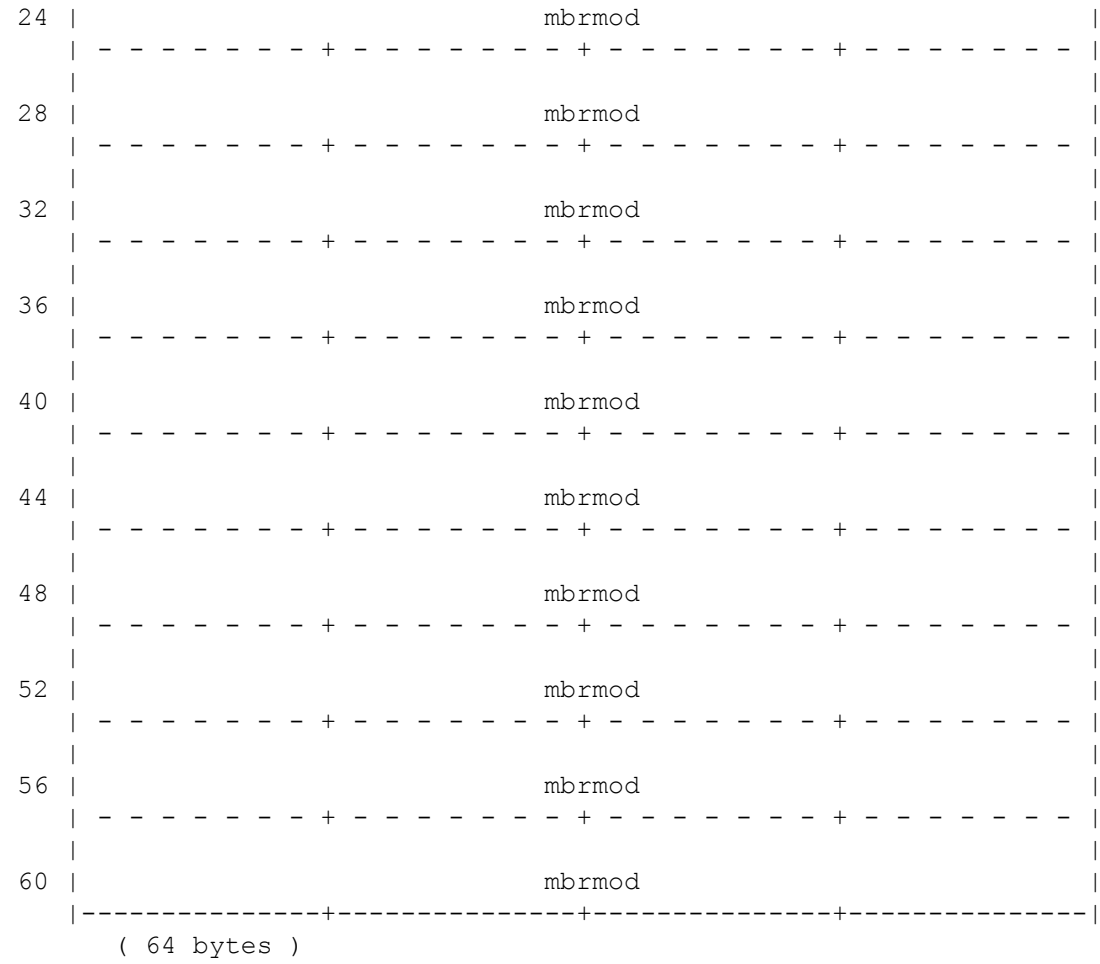


## 4. Population Rules for RLisatmod

**Relation Description**
ISDN attendant (ISAT) modules.

Associates an ISAT hunt group number with the modules of the members.

**Attribute: isat_idx**

**Fullname:** isat index of ISAT hunt group

**Attribute Description** This is an abstract representation of a multi-line hunt group number.

Dependencies:
A tuple in this relation is only needed when the hunt group corresponding to isat_idx has a tuple in RLrt_mhg where RLrt_mhg.isat_idx = RLisatmod.isat_idx and RLrt_mhg.htype = RTH_ISAT and the specified queuing module RLrt_mhg.qmodule is this SM.

**Attribute: mbrmod[*]**

**Fullname:** positional list of module numbers

**Attribute Description** Positional list of module numbers showing the processor number of each of the members of a multi-line hunt group. This attribute is used by the software to determine

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which processor to send a message to when a call is being dequeued at the queuing module. The 63 members (ISATMAXMEM) of a hunt group could each be on a different processor.

Dependencies:
If RLgroup_port.portgrp.grpnum = RLrt_mhg.grpnum (whose RLrt_mhg.isat_idx = this RLisatmod.isat_idx), RLgroup_port.portgrp.grptype = TM_LINE, and RLgroup_port.member = member number (1-ISATMAXMEM) does not exist on the AM, then the value must be 0.

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# ISBILLDN

## 1. Description

ISDN digital subscriber line billing DN for BRCS. This relation is only populated when the billing DN is a DN other then the DN contained in RLis_line.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 76 |
| density | 71 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
ISBILLDN    relid = 861   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     billdn      DMBCD_BDN    (array [ 6 ] of char )
     ltm_idxi    DMLTM_IDX    (ulong: 16)  <--- key
     lead_module  DMMODULE     (ushort: 8)  <--- key
         User, Compacted and Stored Tuple Layout   ISBILLDN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                             billdn                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                 |                             |
  4 |              billdn             |            ltm_idxi         |
    |---------------+---------------+---------------+---------------|
    |                 |                                             |
  8 |  lead_module    |*********************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLisbilldn

**Relation Description**
ISDN billing directory number.

ISDN digital subscriber line billing DN for BRCS This relation is only populated when the billing DN is a DN other then the DN contained in RLis_line.

In ISDN BRCS, the billing will be by DN not by port (terminal). Since a BRI may have multiple DNs, the billing DN will correspond to a specific DN on the BRI terminals.

IF RLis_line(lead_module, ltm_idxi).bill_flg = DBNO this tuple will not exist.

If RLis_line(lead_module, ltm_idxi).bill_flg = DBYES this relation is populated with the billing DN.

This relation may be populated when a IS_LINE typle exists for shared analog DNs, secondary only DNs and ISDN terminal types (TYPEA, TYPEB, TYPEC, TYPEE, TYPATT) In general, ISBILLDN must be populated when the billing TN cannot be derived (it differs from) from IS_LINE.noc and is_line.loc.

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Specifically populate when

(1) an optional billing DN is specified and differs from that derived from IS_LINE.noc, IS_LINE.loc.

(2) if a non-lead member of a regular or circular hunt group with IS_LINE, noc == 0 and IS_LINE, loc == 0 obtain the billing TN from member 1 of the MLHG.

(3) if member of UCD with IS_LINE.noc==0 and IS_LINE.loc==0 obtain the billing TN from the MLHG TN. (RLpgrprmk(grpnum).tn)

(4) if member of ISAT with IS_LINE.noc==0 and IS_LINE.loc==0 obtain the billing TN from subgroup TN 1 (an ISAT group must always have subgroup TN 1).

**Attribute: lead_module**

**Fullname:** Lead Module.

**Attribute Description** lead switching module
lead_module = RLis_line.lead_module

**Attribute: ltm_idxi**

**Fullname:** Logical Termination Index.

**Attribute Description** logical termination index
ltm_idxi = RLis_line.ltm_idxiNote:
ltm_type associated with this ltm_idxi is always LTM_ISDN when used to create keys for relations such as RLdn_feats which includes both ltm_type and ltm_idx as part of the key.

**Attribute: billdn**

**Fullname:** Billing Directory number.

**Attribute Description** Billing directory number. The billing dn is a 10 digit number that is, different than the DN in RLis_line(lead_module,ltm_idxi) tuple. This DN is assigned by the office. The billing number is a number of up to 10 digits ( no. digits = (1 <= no. digits <= 10)). Number of digits = 0 means no billing number is present. The digits are stored in BCD, two per character (byte). The domain used for bill_dn has five characters for the ten digits plus one character for the number of digits (number of digits character is required by the I/O type). If the number of digits is < 10, the null character (which becomes same as digit 0 in BCD) is used to fill the remaining digits. The number of digits character always contains the number of digits. The digits are stored in the attribute starting with D1.

Layout follows:

| byte 0 | byte 1 | byte 2 | byte 3 | byte 4 | byte 5 |
|---|---|---|---|---|---|
| D1 \| D2 | D3 \| D4 | D5 \| D6 | D7 \| D8 | D9 \| D10 | no. dig. |

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# ISDTGS

## 1. Description

Maps a private facility to a button for each configuration group.

```
Maximum number of tuples derived as follows:
4032    63 Maximum ISAT MLHG (isat_idx)
      x  4 configs (limited in RLisatgrp)
      x 16 private facilities per config
The expected tuple data was extracted from a study
of field equipment.
(AVISATGRPS * 4 * 16) > 4032)

syntax - The number of ISDTGSs needed has exceeded the maximum engineered
```

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4032 |
| expected number of tuples | 3 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
ISDTGS      relid = 948   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     config      DMCONFIG     (ulong: 12)  <--- key
 (a) cpe_comp    DMCPECOMP    (uchar: 3)
 (b) pftype      DMPFTYPE     (enum: 1)  <--- key
     grpnum      DMGRUPNM     (ushort: 11)  <--- key
     button      DMBUTTON     (uchar: 8)
         User, Compacted and Stored Tuple Layout ISDTGS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |     | |                       |       |
  0 |         config        |  a  |b|        grpnum         |*******|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  4 |     button    |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLisdtgs

**Relation Description**
Direct Trunk Group Selection.

Maps a private facility to a button for each configuration group.

**Attribute: config**

**Fullname:** configuration group

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**Attribute Description** ISDN configuration group This number must be created and put in RLfacname.facid and RLfid2name.facid before being assigned to RLis_term.config. Unassigned configurations exist only in the AM.

**Attribute: pftype**

**Fullname:** private facility type

**Attribute Description** Indicates if this facility is a simulated facility group (PFSFG) or a physical trunk group (PFPHYS).

**Attribute: grpnum**

**Fullname:** group number

**Attribute Description** Indicates group number of the sfg or physical trunk group assigned to a DTGS key.

**Attribute: cpe_comp**

**Fullname:** CPE component

**Attribute Description** CPE component (module). This cpe_comp must be the same as RLbnfeat.cpe_comp which has an action of ACN_IDTGS and the same config as this relation.

**Attribute: button**

**Fullname:** ISDN station set button number

**Attribute Description** ISDN station set button number. This button number must be the same as RLbnfeat.button which has an action of ACN_IDTGS and the same config as this relation.

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# ISLC_ALM

## 1. Description

Distribute and scan points for *SLC*® alarm types.

Maximum tuples based on the capacity of DMRT_ALMTP. The expected tuple data was extracted from a study of field equipment.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8 |
| expected number of tuples | 8 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | CIO |
| relation type | DBSTATIC |
| ks key store | AUTO |
| trigger function | SMislc_trig |
| insert trigger | DBYES |
| update trigger | DBNO |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
ISLC_ALM    relid = 1247  DBSTATIC   DBACC_CIND  DBPRAM    LP      CIO
 (a) alarm_type  DMRT_ALMTP   (enum: 3)     <--- key, not stored
     type_spdp   DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User and Compacted Tuple Layout   ISLC_ALM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |     |                                                         |
  0 |  a  |*********************************************************|
    |===============+========== type_spdp ==========+===============|
    |                              |                 |               |
  4 |             member           |***************|     module    |
    |===============+==============+===============+===============|
       ( 8 bytes )
     type_spdp   DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
           Stored Tuple Layout     ISLC_ALM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+========== type_spdp ==========+===============|
    |                              |                 |               |
  0 |             member           |***************|     module    |
    |===============+==============+===============+===============|
       ( 4 bytes )
```

## 4. Population Rules for RLislc_alm

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**Relation Description**
Integrated *SLC*® alarm types.

This relation is to map integrated *SLC*® alarm types to their associated distribute/scan points.

**Attribute: alarm_type**

**Fullname:** Integrated *SLC*® (ISLC) alarm types

**Attribute Description** Indicates the ISLC alarm types.

**Attribute: type_spdp**

**Fullname:** ISLC alarm types to scan/distribute points

**Attribute Description** Map ISLC alarm types to associated scan/distribute points.

**Attribute: type_spdp.member**

**Fullname:** Port number

**Attribute Description** Port number used in mapping to RLfc_porttype.port.module.

**Attribute: type_spdp.module**

**Fullname:** Module number

**Attribute Description** Module number used in mapping to RLfc_porttyp.port.module.

**Defines:**"db/DMport.h"

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# ISLINE_R

## 1. Description

This relation contains the ISDN Digital Subscriber Line Logical Termination Directory Number Feature Data. This is a root storage relation for RLis_line

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 104 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTORAGE |
| density | 57 |
| ks key store | AUTO |

## 3. Field Layout

```
ISLINE_R    relid = 1651  DBSTORAGE  DBACC_CIND  DBPRAM    FG      NULL


    lead_module  DMMODULE     (ushort: 8)      <--- key, not stored
    ltm_idxi     DMLTM_IDX    (ulong: 16)      <--- key, not stored
    lead_lport   DMLPORT      (ushort: 16)
    mem_dn       DMMEMDN      (ushort: 14)
(a) o_reserv     DMBOOL       (enum: 1)
(b) t_reserv     DMBOOL       (enum: 1)
    loc          DMLINENO     (ushort: 14)
    aline        DMGK14       (ulong: 14)
(c) freeterm     DMBOOL       (enum: 1)
    caseindex    DMCASEMAX    (ushort: 9)
        User and Compacted Tuple Layout   ISLINE_R
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |                               |               |
 0 |  lead_module  |            ltm_idxi           |***************|
   |---------------+---------------+---------------+---------------|
   |                               |                             | | |
 4 |           lead_lport          |           mem_dn            |a|b|
   |---------------+---------------+---------------+---------------|
   |                           |                             | |     |
 8 |            loc            |           aline             |c|*****|
   |---------------+---------------+---------------+---------------|
   |                |                                              |
12 |    caseindex   |**********************************************|
   |---------------+---------------+---------------+---------------|
      ( 16 bytes )


    lead_lport   DMLPORT      (ushort: 16)
    mem_dn       DMMEMDN      (ushort: 14)
(a) o_reserv     DMBOOL       (enum: 1)
(b) t_reserv     DMBOOL       (enum: 1)
```

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```
    loc         DMLINENO     (ushort: 14)
    aline       DMGK14       (ulong: 14)
(c) freeterm    DMBOOL       (enum: 1)
    caseindex   DMCASEMAX    (ushort: 9)
          Stored Tuple Layout     ISLINE_R
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                           | | |
 0 |           lead_lport          |           mem_dn          |a|b|
   |---------------+---------------+---------------+---------------|
   |                             |                           | |     |
 4 |            loc              |           aline           |c|*****|
   |---------------+---------------+---------------+---------------|
   |                 |                                             |
 8 |    caseindex    |*********************************************|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population rules for RLisline_r

### Relation Description

There are no population rules for this relation.

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# ISLN_G

## 1. Description

This relation contains the Storage table for ISDN Digital Subscriber Line Logical Termination Directory Number Feature Data. This is a child storage relation for RLis_line

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8191 |
| expected tuples | 100 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTORAGE |
| ks key store | DBNO |
| foldtype | DBGC31 |
| gkidxrel GK-index relation | rlISLN_I |
| spare bits | 32l |

## 3. Field Layout

```
ISLN_G      relid = 1652  DBSTORAGE  DBACC_GK    DBPRAM    FG      NULL


    gkISLN_G    DMGK14       (ulong: 14)       <--- key, not stored
    grp_noc     DMGRPNOC     (ushort: 14)
(a) ctxid       DMCTXID      (enum: 2)
    noc         DMNOC        (ushort: 14)
(b) lttype      DMLTTYPE     (enum: 2)
    bfgid       DMRCBFGID    (ushort: 12)
(c) nsa_reserv  DMSUBADDR    (uchar: 4)
    frst_ca     DMCALLAP     (uchar: 8)
    ffcf9       DMUNS8       (ushort: 8)
(d) csv_climit  DMCRV_BLIM   (uchar: 5)
(e) lead_termno  DMTERMNO     (uchar: 1)
(f) bill_flg    DMBOOL       (enum: 1)
(g) brc_dn      DMBOOL       (enum: 1)
(h) csd_climit  DMCRV_BLIM   (uchar: 5)
(i) csv_aco     DMACO_TYPE   (enum: 3)
(j) sa_orig_qty  DMCASACT     (uchar: 5)
(k) csd_aco     DMACO_TYPE   (enum: 3)
(l) sa_term_qty  DMCASACT     (uchar: 5)
(m) mdc_member  DMBOOL       (enum: 1)
(n) huntkeys    DMBOOL       (enum: 1)
(o) primary     DMBOOL       (enum: 1)
(p) sa_prio_qty  DMCASACT     (uchar: 5)
(q) shared      DMBOOL       (enum: 1)
(r) sh_analog   DMBOOL       (enum: 1)
(s) busymon     DMBOOL       (enum: 1)
(t) subaddr_cnt  DMSUBADDR    (uchar: 4)
(u) max_shca    DMSUBADDR    (uchar: 4)
(v) prior_map   DMPRI_MAP    (uchar: 4)
    sa_orig     DMSUBADDR    (uchar: 4)
    sa_term     DMSUBADDR    (uchar: 4)
    sa_prio     DMSUBADDR    (uchar: 4)
(w) csv_nblimit  DMNB_LIMIT   (ushort: 4)
```

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```
(x) csd_nblimit  DMNB_LIMIT   (ushort: 4)
(y) dn_bfg       DMBOOL       (enum: 1)
(z) cfv_on       DMBOOL       (enum: 1)
(A) cfbl_on      DMBOOL       (enum: 1)
(B) cfda_on      DMBOOL       (enum: 1)
(C) disp_on      DMBOOL       (enum: 1)
(D) cnd_on       DMBOOL       (enum: 1)
(E) bfg_put      DMBOOL       (enum: 1)
(F) bfg_eds      DMBOOL       (enum: 1)
(G) ported       DMBOOL       (enum: 1)
(H) ffcf1        DMBOOL       (enum: 1)
(I) ffcf2        DMBOOL       (enum: 1)
(J) ffcf3        DMBOOL       (enum: 1)
(K) ffcf4        DMBOOL       (enum: 1)
(L) ffcf5        DMBOOL       (enum: 1)
(M) ffcf6        DMBOOL       (enum: 1)
(N) ffcf7        DMBOOL       (enum: 1)
(O) ffcf8        DMBOOL       (enum: 1)
(P) psap         DMBOOL       (enum: 1)
(Q) mon_mode     DMBOOL       (enum: 1)
(R) pp_stat      DMBOOL       (enum: 1)
(S) intercept    DMBOOL       (enum: 1)
(T) scr_on       DMBOOL       (enum: 1)
(U) scf_on       DMBOOL       (enum: 1)
(V) sca_on       DMBOOL       (enum: 1)
(W) sda_on       DMBOOL       (enum: 1)
(X) sercomp      DMBOOL       (enum: 1)
(Y) cpnbn_on     DMBOOL       (enum: 1)
(Z) tgsr_on      DMBOOL       (enum: 1)
(a) cgps_alw     DMBOOL       (enum: 1)
(b) dcpn_bill    DMBILL_OPT   (enum: 1)
(c) bill_opt     DMBILL_OPT   (enum: 1)
(d) epo_on       DMBOOL       (enum: 1)
(e) tsmed        DMBOOL       (enum: 1)
(f) inhibit_del  DMBOOL       (enum: 1)
        User and Compacted Tuple Layout     ISLN_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 0 |*********************************|          gkISLN_G             |
   |---------------+---------------+---------------+---------------|
   |                           |   |                           |   |
 4 |          grp_noc          | a |            noc            | b |
   |---------------+---------------+---------------+---------------|
   |                       |       |               |               |
 8 |         bfgid         |   c   |    frst_ca    |     ffcf9     |
   |---------------+---------------+---------------+---------------|
   |         | | | |         |     |         |     |         | | | |
12 |    d    |e|f|g|    h    |  i  |    j    |  k  |    l    |m|n|o|
   |---------------+---------------+---------------+---------------|
   |         | | | |       |       |       |       |       |       |
16 |    p    |q|r|s|   t   |   u   |   v   |sa_orig|sa_term|sa_prio|
   |---------------+---------------+---------------+---------------|
```

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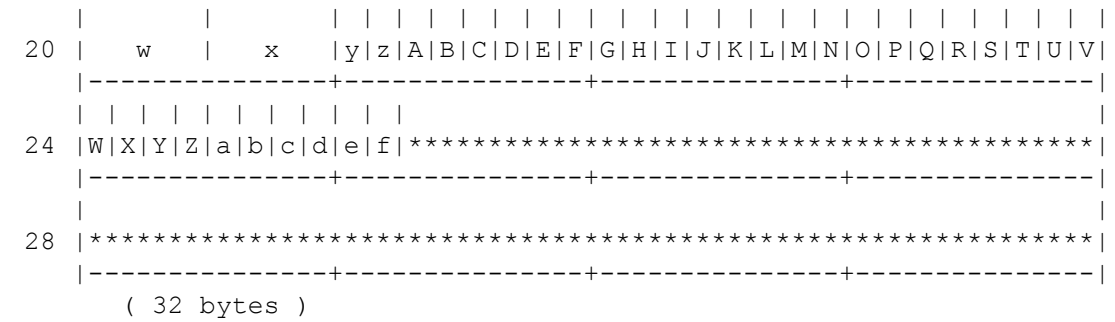


```
    grp_noc     DMGRPNOC     (ushort: 14)
(a) ctxid       DMCTXID      (enum: 2)
    noc         DMNOC        (ushort: 14)
(b) lttype      DMLTTYPE     (enum: 2)
    bfgid       DMRCBFGID    (ushort: 12)
(c) nsa_reserv  DMSUBADDR    (uchar: 4)
    frst_ca     DMCALLAP     (uchar: 8)
    ffcf9       DMUNS8       (ushort: 8)
(d) csv_climit  DMCRV_BLIM   (uchar: 5)
(e) lead_termno  DMTERMNO     (uchar: 1)
(f) bill_flg    DMBOOL       (enum: 1)
(g) brc_dn      DMBOOL       (enum: 1)
(h) csd_climit  DMCRV_BLIM   (uchar: 5)
(i) csv_aco     DMACO_TYPE   (enum: 3)
(j) sa_orig_qty  DMCASACT     (uchar: 5)
(k) csd_aco     DMACO_TYPE   (enum: 3)
(l) sa_term_qty  DMCASACT     (uchar: 5)
(m) mdc_member  DMBOOL       (enum: 1)
(n) huntkeys    DMBOOL       (enum: 1)
(o) primary     DMBOOL       (enum: 1)
(p) sa_prio_qty  DMCASACT     (uchar: 5)
(q) shared      DMBOOL       (enum: 1)
(r) sh_analog   DMBOOL       (enum: 1)
(s) busymon     DMBOOL       (enum: 1)
(t) subaddr_cnt  DMSUBADDR    (uchar: 4)
(u) max_shca    DMSUBADDR    (uchar: 4)
(v) prior_map   DMPRI_MAP    (uchar: 4)
    sa_orig     DMSUBADDR    (uchar: 4)
    sa_term     DMSUBADDR    (uchar: 4)
    sa_prio     DMSUBADDR    (uchar: 4)
(w) csv_nblimit  DMNB_LIMIT   (ushort: 4)
(x) csd_nblimit  DMNB_LIMIT   (ushort: 4)
(y) dn_bfg      DMBOOL       (enum: 1)
(z) cfv_on      DMBOOL       (enum: 1)
(A) cfbl_on     DMBOOL       (enum: 1)
(B) cfda_on     DMBOOL       (enum: 1)
(C) disp_on     DMBOOL       (enum: 1)
(D) cnd_on      DMBOOL       (enum: 1)
(E) bfg_put     DMBOOL       (enum: 1)
(F) bfg_eds     DMBOOL       (enum: 1)
(G) ported      DMBOOL       (enum: 1)
(H) ffcf1       DMBOOL       (enum: 1)
```

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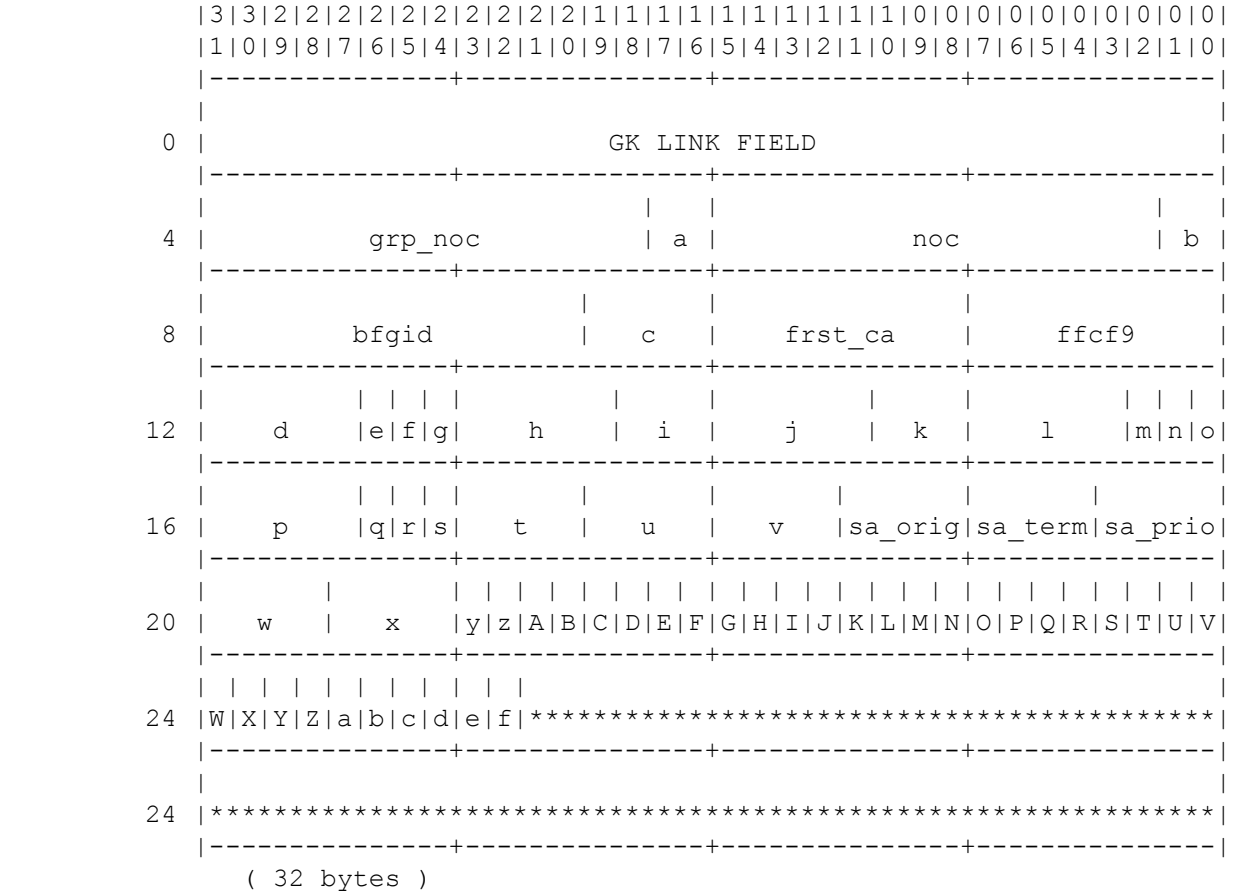
```
(I) ffcf2        DMBOOL        (enum: 1)
(J) ffcf3        DMBOOL        (enum: 1)
(K) ffcf4        DMBOOL        (enum: 1)
(L) ffcf5        DMBOOL        (enum: 1)
(M) ffcf6        DMBOOL        (enum: 1)
(N) ffcf7        DMBOOL        (enum: 1)
(O) ffcf8        DMBOOL        (enum: 1)
(P) psap         DMBOOL        (enum: 1)
(Q) mon_mode     DMBOOL        (enum: 1)
(R) pp_stat      DMBOOL        (enum: 1)
(S) intercept    DMBOOL        (enum: 1)
(T) scr_on       DMBOOL        (enum: 1)
(U) scf_on       DMBOOL        (enum: 1)
(V) sca_on       DMBOOL        (enum: 1)
(W) sda_on       DMBOOL        (enum: 1)
(X) sercomp      DMBOOL        (enum: 1)
(Y) cpnbn_on     DMBOOL        (enum: 1)
(Z) tgsr_on      DMBOOL        (enum: 1)
(a) cgps_alw     DMBOOL        (enum: 1)
(b) dcpn_bill    DMBILL_OPT    (enum: 1)
(c) bill_opt     DMBILL_OPT    (enum: 1)
(d) epo_on       DMBOOL        (enum: 1)
(e) tsmed        DMBOOL        (enum: 1)
(f) inhibit_del  DMBOOL        (enum: 1)
```

Stored Tuple Layout ISLN_G

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## 4. Population rules for RLisIn_g

**Relation Description**

There are no population rules for this relation.

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# ISLP_TKG

## 1. Description

This relation contains the Inter-System Link Protocol (ISLP) Autoplex(R) trunks on a SM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 192 |
| expected number of tuples | 90 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application type | CGA |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
ISLP_TKG    relid = 3187  DBSTATIC   DBACC_HASH  DBPRAM    LP      CGA


    sm          DMMODULE     (ushort: 8)       <--- key
    range       DMUNS7       (ushort: 7)       <--- key
    cnt         DMUNS11      (ushort: 11)
    tgnmem1     DMTKGRP      (struct)
        tgrpid      DMGRPNUM     (ushort)
        member      DMMEMBER     (ushort)
    tgnmem2     DMTKGRP      (struct)
        tgrpid      DMGRPNUM     (ushort)
        member      DMMEMBER     (ushort)
    tgnmem3     DMTKGRP      (struct)
        tgrpid      DMGRPNUM     (ushort)
        member      DMMEMBER     (ushort)
    tgnmem4     DMTKGRP      (struct)
        tgrpid      DMGRPNUM     (ushort)
        member      DMMEMBER     (ushort)
    tgnmem5     DMTKGRP      (struct)
        tgrpid      DMGRPNUM     (ushort)
        member      DMMEMBER     (ushort)
    tgnmem6     DMTKGRP      (struct)
        tgrpid      DMGRPNUM     (ushort)
        member      DMMEMBER     (ushort)
    tgnmem7     DMTKGRP      (struct)
        tgrpid      DMGRPNUM     (ushort)
        member      DMMEMBER     (ushort)
    tgnmem8     DMTKGRP      (struct)
        tgrpid      DMGRPNUM     (ushort)
        member      DMMEMBER     (ushort)
    tgnmem9     DMTKGRP      (struct)
        tgrpid      DMGRPNUM     (ushort)
        member      DMMEMBER     (ushort)
    tgnmem10    DMTKGRP      (struct)
        tgrpid      DMGRPNUM     (ushort)
        member      DMMEMBER     (ushort)
    tgnmem11    DMTKGRP      (struct)
```

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```
        tgrpid      DMGRPNUM     (ushort)
        member      DMMEMBER     (ushort)
    tgnmem12    DMTKGRP      (struct)
        tgrpid      DMGRPNUM     (ushort)
        member      DMMEMBER     (ushort)
    tgnmem13    DMTKGRP      (struct)
        tgrpid      DMGRPNUM     (ushort)
        member      DMMEMBER     (ushort)
    tgnmem14    DMTKGRP      (struct)
        tgrpid      DMGRPNUM     (ushort)
        member      DMMEMBER     (ushort)
    tgnmem15    DMTKGRP      (struct)
        tgrpid      DMGRPNUM     (ushort)
        member      DMMEMBER     (ushort)
        User, Compacted and Stored Tuple Layout   ISLP_TKG
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |             | |                       |       |
 0 |       sm      |    range    |*|         cnt           |*******|
   |===============+=========== tgnmem1 ===========+===============|
   |                               |                               |
 4 |             tgrpid            |             member            |
   |===============+=========== tgnmem2 ===========+===============|
   |                               |                               |
 8 |             tgrpid            |             member            |
   |===============+=========== tgnmem3 ===========+===============|
   |                               |                               |
12 |             tgrpid            |             member            |
   |===============+=========== tgnmem4 ===========+===============|
   |                               |                               |
16 |             tgrpid            |             member            |
   |===============+=========== tgnmem5 ===========+===============|
   |                               |                               |
20 |             tgrpid            |             member            |
   |===============+=========== tgnmem6 ===========+===============|
   |                               |                               |
24 |             tgrpid            |             member            |
   |===============+=========== tgnmem7 ===========+===============|
   |                               |                               |
28 |             tgrpid            |             member            |
   |===============+=========== tgnmem8 ===========+===============|
   |                               |                               |
32 |             tgrpid            |             member            |
   |===============+=========== tgnmem9 ===========+===============|
   |                               |                               |
36 |             tgrpid            |             member            |
   |===============+==========  tgnmem10 ==========+===============|
   |                               |                               |
40 |             tgrpid            |             member            |
   |===============+==========  tgnmem11 ==========+===============|
   |                               |                               |
44 |             tgrpid            |             member            |
   |===============+==========  tgnmem12 ==========+===============|
```

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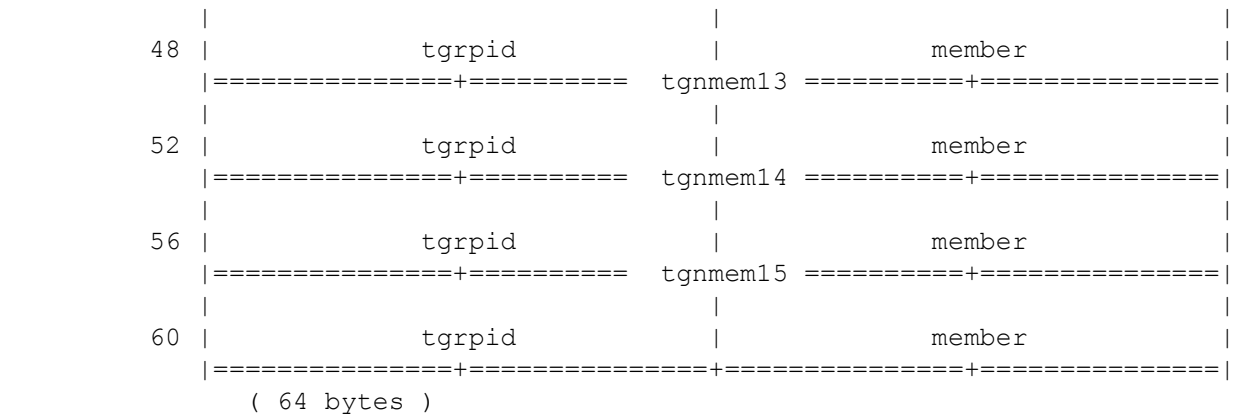


## 4. Population rules for RLislp_tkg

### Relation Description

Autoplex(R) Inter-System Link Protocol (ISLP) trunk group and member to Switching Module (SM)

List of ISLP Autoplex(R) trunk group and member numbers whose port terminates on a particular SM.

A tuple is keyed by the SM and range and consists of up to 15 entries. Each entry contains a single trunk group number and member number combination.

**Attribute:**
sm
**Fullname:**
Switching module
**Attribute Description:**
Primary key to the relation.

**Attribute:**
range
**Fullname:**
Range
**Attribute Description:**
The range indicates which tuple (set of 15 trunk group/members) to be accessed. Range is a primary key to the relation.

**Attribute:**
cnt
**Fullname:**
Count
**Attribute Description:**
Indicates the number of trunk group and member combinations that exist for this SM. The count is kept in the range zero

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tuple.

**Attribute:**
tgnmem[*].tgrpid
**Fullname:**
Trunk group identification number
**Attribute Description:**
Indicates the trunk group number that the member is assigned to.

The '*' in tgnmem[*] has the range of 1 to 15;

**Attribute:**
tgnmem[*].member
**Fullname:**
Trunk member number
**Attribute Description:**
The trunk member number assigned to the trunk.

The '*' in tgnmem[*] has the range of 1 to 15;

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# ISLU2LG

## 1. Description

This relation describes all the Line Boards in a Line Group on a (R)ISLU2.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 448 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | PCi2_lgmsk |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBNO |
| end of transaction trigger | DBYES |
| padding indicator | unpadded |
| permutation type | un_perm |

## 3. Field Layout

```
ISLU2LG     relid = 2171  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     lg          DMCIRCUIT    (ushort)     <--- key
     board0      DMLBTYPE     (enum: 8)
     board1      DMLBTYPE     (enum: 8)
     board2      DMLBTYPE     (enum: 8)
     board3      DMLBTYPE     (enum: 8)
     board4      DMLBTYPE     (enum: 8)
     board5      DMLBTYPE     (enum: 8)
     board6      DMLBTYPE     (enum: 8)
     board7      DMLBTYPE     (enum: 8)
 (a) remote      DMBOOL       (enum: 1)
 (b) duplex      DMBOOL       (enum: 1)
 (c) lgtype      DMLGTYPE     (enum: 2)
 (d) cable_series  DMCABLE      (enum: 2)
     h_cable_len  DMUNS10      (ushort: 10)
     dpidb_mask  DMHEX32      (ulong)
     r_cable_len  DMUNS10      (ushort: 10)
         User, Compacted and Stored Tuple Layout    ISLU2LG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |               lg              |     board0    |     board1    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |     board2    |     board3    |     board4    |     board5    |
    |---------------+---------------+---------------+---------------|
    |               |               | | |   |   |                   |
  8 |     board6    |     board7    |a|b| c | d |    h_cable_len    |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                          dpidb_mask                           |
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
```

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```
 16 |    r_cable_len    |****************************************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
domain alISLU2LG   struct  (9 sub-attributes)
         lg          unsigned short (ushort)
         board       .10.fake     (array [ 8 ] of .1fake )
 (a)     remote      .2fake       (enum)
 (b)     duplex      .2fake       (enum)
 (c)     lgtype      .3fake       (enum)
 (d)     cable_series  .0fake       (enum)
         h_cable_len  .11.fake     (ushort: 10)
         dpidb_mask  unsigned long (ulong)
         r_cable_len  .12.fake     (ushort: 10)
         Structure Layout      alISLU2LG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |               lg              |             board             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  4 |                            board                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               | | |   |   |                   |
  8 |             board             |a|b| c | d |      h_cable_     |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |                           dpidb_ma                            |
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
 16 |      r_cable_     |****************************************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population Rules for RLislu2lg

**Relation Description**
ISLU2 Line Group Information

U.S. utilizes local line groups, therefore remote line groups are not applicable for U.S. in this relation. This relation is used for information related to ISLU2 line groups. ISLU2 line groups are pseudo-entities, provided as an administrative convenience. Unlike ISLUs, the ISLU2 does not have a line group controller. When the first line board is grown into a line group of an ISLU2, a tuple is created in this relation. When the last board is degrown, the tuple is deleted.

**Attribute: lg**

**Fullname:** Line Group circuit name

**Attribute Description** This is the line group of an ISLU2 with at least one board present

**Attribute: board[*]**

**Fullname:** Board in position N

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**Attribute Description** For the 8 possible positions for the line board, this attribute holds the line board type if the board does not have an eqstat of SMUNEQ in RLcktdata. For U line boards, this value should be PCUBRD if the eqstat is not SMUNEQ. For Z line boards, this value should be PCZBRD if the eqstat is not SMUNEQ. For T line boards, this value should be PCTBRD if the eqstat is not SMUNEQ. Board[0-3] are in primary LIDB, or lower shelf, while board[4-7] are in secondary LIDB, or upper shelf.

**Attribute: remote**

**Fullname:** Remote Line Group

**Attribute Description** Is this Line Group remote or local? For Local Line Groups, remote is DBNO. For Remote Line Groups, remote is DBYES. This attribute is not currently used in the U.S.

**Attribute: duplex**

**Fullname:** Duplex RLGI Configuration

**Attribute Description** Is this Remote Line Group connected to a Simplex or Duplex RLGI configuration? Simplex RLGI Configurations have RLGI Service Group 0 connected to the RLG. Duplex RLGI Configurations have RLGI Service Group 0 and RLGI Service Group 1 connected to the RLG. For Local Line Groups, duplex is DBNO. For Remote Line Groups connected to a Simplex RLGI configuration, duplex is DBNO. For Remote Line Groups connected to a Duplex RLGI configuration, duplex is DBYES. This attribute is not currently used in the U.S.

**Attribute: cable_series**

**Fullname:** Backplane Cable Series (type).

**Attribute Description** Type (series) of cable between the backplane and the T1 Digital Cross-Connect (DSX) panel.

**Attribute: dpidb_mask**

**Fullname:** Mask for Available LIDB timeslots

**Attribute Description** The attribute dpidb_mask is a 32 bit mask that specifies the timeslots on an LG that are reserved for DPIDB permanent connections to the PSU. The low order bit represents LIDB/LG timeslot 0, the high order bit represents LIDB/LG timeslot 31. A bit set to '0' indicates a timeslot used for DPIDB connection. The default value is 0xffffffff, representing no dpidb timeslots are used. This will be true for any line group on a RISLU, since DPIDBs are not allowed for RISLU, and for any line group with NO operational or assigned digital (U or T) line circuits. The actual timeslots chosen for DPIDB connection can be found in the relations RLdpidb_pt and RLdslequip. The following layout shows which DPIDB's and timeslots may be used to connect D-channels from an ISLU2 to the PSU:

```
                LG   LIDB  timeslots
       30                  20                  10                   0
      1 0 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0
-------------------------------------------------------------------------
LG 0      I G E C A       I G E C A *     I G E C A       I G E C A *
LG 1    I G E C A       I G E C A *     I G E C A       I G E C A *
LG 2  I G E C A       I G E C A *     I G E C A       I G E C A *
LG 3  G E C A       I G E C A *     I G E C A       I G E C A *     I
LG 4  E C A       I G E C A *     I G E C A       I G E C A *     I G
LG 5  C A       I G E C A *     I G E C A       I G E C A *     I G E
```

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```
LG 6  A       I G E C A *     I G E C A       I G E C A *     I G E C
LG 7        I G E C A *     I G E C A       I G E C A *     I G E C A
LG 8      J H F D B*      J H F D B       J H F D B *     J H F D B
LG 9    J H F D B *     J H F D B       J H F D B *     J H F D B
LG 10 J H F D B *     J H F D B       J H F D B *     J H F D B
LG 11 H F D B *     J H F D B       J H F D B *     J H F D B       J
LG 12 F D B *     J H F D B       J H F D B *     J H F D B       J H
LG 13 D B *     J H F D B       J H F D B *     J H F D B       J H F
LG 14 B *     J H F D B       J H F D B *     J H F D B       J H F D
LG 15 *     J H F D B       J H F D B *     J H F D B       J H F D B
*****************************************************************
where:
DPIDB
```

| | | letter | relative PIDB pair on both CDs going to PSIU | circuit index SG 0 or 1 |
|---|---|---|---|---|
| | ---> | ------ | ---------- | ---------- |
| | \| | A | 11 | (SG + 1 << 8 \| 0x000b) |
| LG 0 - 7 | \| | C | 9 | (SG + 1 << 8 \| 0x0009) |
| | \| | E | 7 | (SG + 1 << 8 \| 0x0007) |
| | \| | G | 5 | (SG + 1 << 8 \| 0x0005) |
| | \| | I | 3 | (SG + 1 << 8 \| 0x0003) |
| | \|--> | | | |
| | ---> | ------ | ---------- | ---------- |
| | \| | B | 10 | (SG + 1 << 8 \| 0x000a) |
| LG 8 - 15 | \| | D | 8 | (SG + 1 << 8 \| 0x0008) |
| | \| | F | 6 | (SG + 1 << 8 \| 0x0006) |
| | \| | H | 4 | (SG + 1 << 8 \| 0x0004) |
| | \| | J | 2 | (SG + 1 << 8 \| 0x0002) |
| | \|--> | | | |

Thus, if a DPIDB designated A-J is shown in the layout under a LIDB timeslot number (0-31) for some line group, this DPIDB timeslot can be used for D-channels in the line group. The * designates control timeslots, 2 per line group, which cannot be used for D-channels The control timeslots for LG X is timeslot X and X + 16. An allocation of timeslots that conforms to the previous layout is said to conform to the 'Burley algorithm'. The Burley algorithm is desirable for fault-detection purposes, but is not a requirement. A customer can override the Burley algorithm, for example, and we may need to choose other timeslot during sparing operations. When allocating timeslots for D-channels, up to 4 quarter timeslots from the same line group may share a LIDB timeslot. This is called piggybacking timeslots. A piggy-backed timeslot is preferred over using a previously empty timeslot.

**Attribute: h_cable_len**

**Fullname:** Host cable length

**Attribute Description** Cable length in feet between the Host and the T1 Digital Cross-Connect (DSX) panel.

**Attribute: r_cable_len**

**Fullname:** Remote cable length

**Attribute Description** Cable length in feet between the Remote and the T1 Digital Cross-Connect (DSX) panel.

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**Attribute: lgtype**

**Fullname:** Line Group Type

**Attribute Description** lgtype will be used to distinguish between various types of line groups: such as ISLU2 line group with eight line circuits per line board (SMIS8LG), ISLU2 line group with sixteen line circuits per line board (SMIS16LG).

**Defines:**
"db/DMportindx.h"

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# ISLULGC

## 1. Description

This relation describes all the Line Cards (LC) associated with a Line Group Controller (LGC) on a RISLU/ISLU.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| expected number of tuples | 17 |
| density | 51 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | PCis_lgcmsk |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBNO |
| end of transaction trigger | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
ISLULGC     relid = 620   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     lgc         DMCIRCUIT    (ushort)     <--- key
     card0       DMLCTYPE     (enum)
     card1       DMLCTYPE     (enum)
     card2       DMLCTYPE     (enum)
     card3       DMLCTYPE     (enum)
     card4       DMLCTYPE     (enum)
     card5       DMLCTYPE     (enum)
     card6       DMLCTYPE     (enum)
     card7       DMLCTYPE     (enum)
     card8       DMLCTYPE     (enum)
     card9       DMLCTYPE     (enum)
     card10      DMLCTYPE     (enum)
     card11      DMLCTYPE     (enum)
     card12      DMLCTYPE     (enum)
     card13      DMLCTYPE     (enum)
     card14      DMLCTYPE     (enum)
     card15      DMLCTYPE     (enum)
     card16      DMLCTYPE     (enum)
     card17      DMLCTYPE     (enum)
     card18      DMLCTYPE     (enum)
     card19      DMLCTYPE     (enum)
     card20      DMLCTYPE     (enum)
     card21      DMLCTYPE     (enum)
     card22      DMLCTYPE     (enum)
     card23      DMLCTYPE     (enum)
     card24      DMLCTYPE     (enum)
     card25      DMLCTYPE     (enum)
     card26      DMLCTYPE     (enum)
     card27      DMLCTYPE     (enum)
     card28      DMLCTYPE     (enum)
     card29      DMLCTYPE     (enum)
     card30      DMLCTYPE     (enum)
```

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```
     card31      DMLCTYPE     (enum)
     dpidb_mask  DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout    ISLULGC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |              lgc              |     card0     |     card1     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |     card2     |     card3     |     card4     |     card5     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  8 |     card6     |     card7     |     card8     |     card9     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 12 |     card10    |     card11    |     card12    |     card13    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 16 |     card14    |     card15    |     card16    |     card17    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 20 |     card18    |     card19    |     card20    |     card21    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 24 |     card22    |     card23    |     card24    |     card25    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 28 |     card26    |     card27    |     card28    |     card29    |
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
 32 |     card30    |     card31    |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 36 |                           dpidb_mask                          |
    |---------------+---------------+---------------+---------------|
      ( 40 bytes )
domain alISLULGC   struct  (3 sub-attributes)
        lgc         unsigned short (ushort)
        card        .32.fake     (array [ 32 ] of .0fake )
        dpidb_mask  unsigned long (ulong)
        Structure Layout      alISLULGC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              lgc              |              card             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                             card                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             card                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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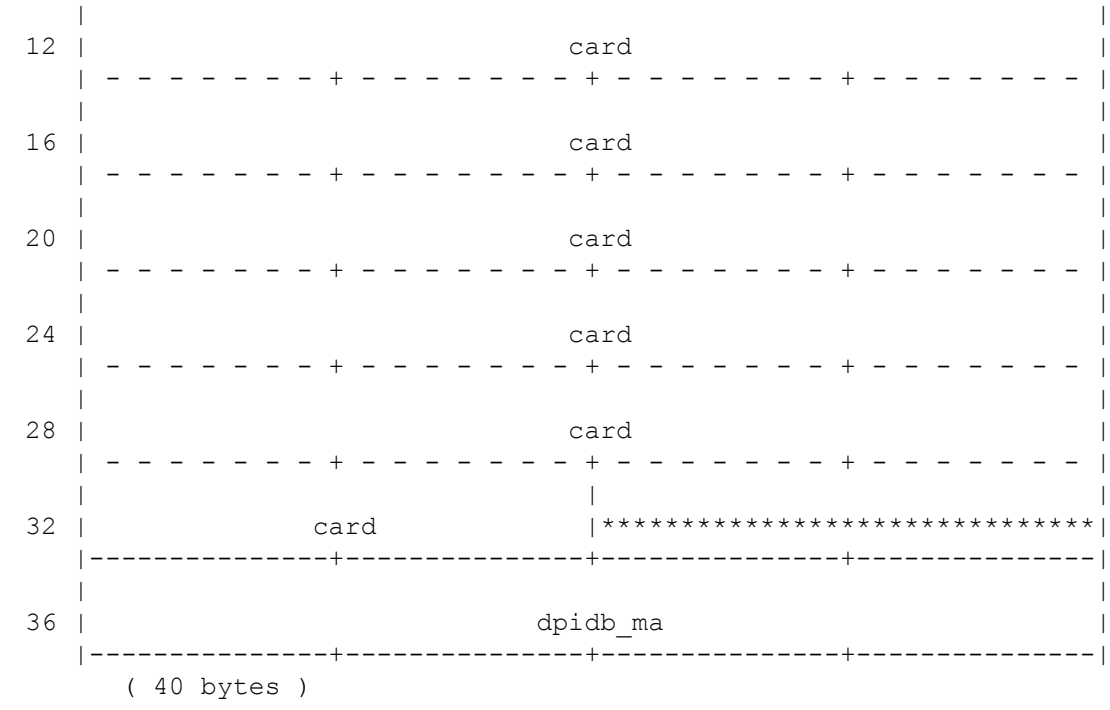
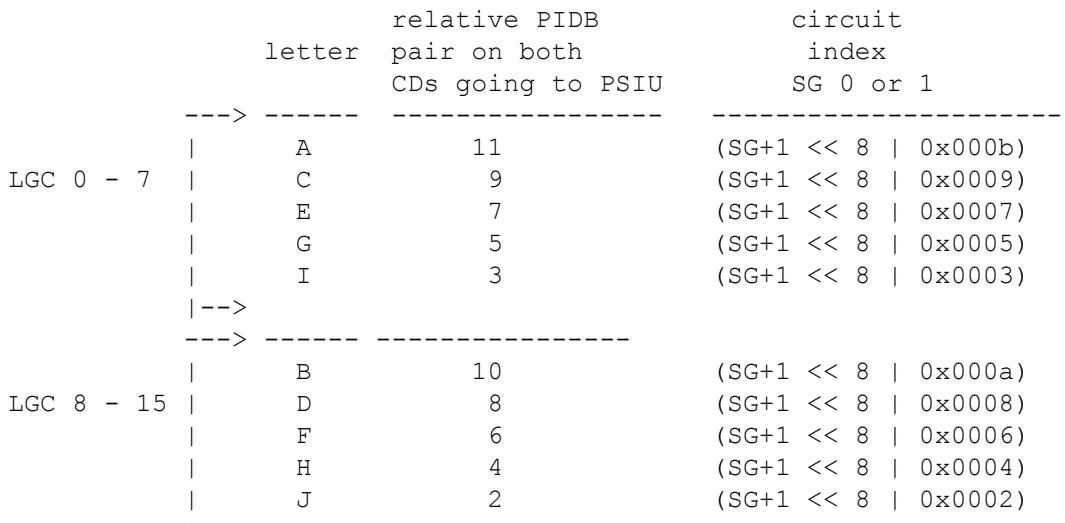



## 4. Population Rules for RLislulgc

**Relation Description**
Integrated services line unit (ISLU) line group controllers (LGC).

This relation describes all the line cards associated with a Line Group Controller on a RISLU/ISLU. This relation should not be used for ISLU2, which does not have a line group controller. It was replaced (for ISLU2) with the new relation RLislu2lg.

```
               LGC   LIDB  timeslots
      30                  20                  10                   0
      1 0 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0
-----------------------------------------------------------------------
LGC0      I G E C A       I G E C A       I G E C A       I G E C A
LGC1    I G E C A       I G E C A       I G E C A       I G E C A
LGC2  I G E C A       I G E C A       I G E C A       I G E C A
LGC3  G E C A       I G E C A       I G E C A       I G E C A       I
LGC4  E C A       I G E C A       I G E C A       I G E C A       I G
LGC5  C A       I G E C A       I G E C A       I G E C A       I G E
LGC6  A       I G E C A       I G E C A       I G E C A       I G E C
LGC7        I G E C A       I G E C A       I G E C A       I G E C A
LGC 8     J H F D B       J H F D B       J H F D B       J H F D B
LGC 9   J H F D B       J H F D B       J H F D B       J H F D B
LGC 10J H F D B       J H F D B       J H F D B       J H F D B
LGC 11H F D B       J H F D B       J H F D B       J H F D B       J
LGC 12F D B       J H F D B       J H F D B       J H F D B       J H
LGC 13D B       J H F D B       J H F D B       J H F D B       J H F
LGC 14B       J H F D B       J H F D B       J H F D B       J H F D
LGC 15      J H F D B       J H F D B       J H F D B       J H F D B
***********************************************************************
where:
                                                        DPIDB
```




If a bit is set in dpidb_mask, then one of the cards in the LGC is assigned the timeslot associated with the dpidb_mask bit. Note that LGC control timeslots cannot be used for any path through the LGC. The LGC control timeslots are equal to the LGC number and the LGC number plus 16. These timeslots must be a '1' in the 'dpidb_mask' attribute. As a cross-check, the relation RLDSLEQUIP should contain the line interface data bus (LIDB) timeslot number and directly connected peripheral interface data bus (DPIDB) service group 0 circuit name (attributes timeslot and dpidb, respectively) for at least one of the ports on a card on the LGC. As another cross-check, the relation RLdpidb_pt should have one or more of the attributes, ts_X_ports.portY (where X is from 0 - 15, Y is from 0 - 3) populated with a port from that LGC as per the previous layout.

An engineering consideration: 'dpidb_mask' reserves quarter time slots for integrated services digital network (ISDN) D-channels and full time slots for ISDN B-channels with packet switching (and therefore nailed up to a PH). NOTE: The assignment of a digital subscriber line (DSL) B-channel with packet switching (that is, DSL B-channel nailup to the protocol handler) will result in this relation being populated. The population of this relation for a DSL B-channel with packet switching is identical to the population of this relation for a DSL D-channel (except a B-channel uses a full time slot).

**Attribute: lgc**

**Fullname:** Line group controllers

**Attribute Description** Line group controllers which have a tuple in RLcktdata and an 'eqstat' of SMOPER or SMGROW must be represented by a tuple in this relation. If the LGC has an 'eqstat' of SMUNEQ, this relation should not be populated with a tuple.

**Attribute: card[*]**

**Fullname:** Card type

**Attribute Description** This attribute holds the type of the line card, if the line card's 'eqstat' in RLcktdata is SMOPER or SMGROW. The attribute is marked as PCLCNOCARD for line cards whose 'eqstat' in RLcktdata is SMUNEQ, or for cards which are not populated in RLcktdata. Line card type attributes for SMOPER or SMGROW line card include PCLCTCARD, PCLCZCARD and PCSPRZCARD. For 5E3(1) applications or later, line card type attributes for an SMOPER or SMGROW line card will also include PCLCSPRUCARD (phase 2 cards). The phase 2 line cards are similar to the T and Z-cards. For 5E6(1) applications or later, line card type attributes for an SMOPER or SMGROW line card will also include PCLCU_ANSI and PCLCSU_ANSI for the American National Standards Institute *(ANSI®)* standard U-card and *(ANSI®* standard spare

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U-card. The *(ANSI®* standard U-card is a single line card design, similar to the phase 2 U-card, and provides ISDN basic rate interface (BRI) 2B+D service to the customer. For 5E9(2) applications and later, provisioning support for the phase 1 U cards (PCPUCARD, PCSUCARD, PCSPRPUCARD, and PCSPRSUCARD) will discontinue. NOTE: The -5 volt auxiliary power converter (PCLCAPC) can be populated only in slot 8 of every line group (LG) of 32 line card slots. Whenever a LG is equipped with the LGP KCD2 power circuit pack and one or more Z or 5E4(2) U cards (that is, PCLCUCARD, or PCLCSPRUCARD), then the PCLCAPC must be populated. For 5E4(2) and beyond, if an LG is equipped with the LGPS 553A power circuit pack, slot 8 will be populated the same as 'card[0]'. An LG will not be equipped with both the Auxiliary Power Convertor (PCLCAPC) and either the LGPS 553A or the LGP 553B. Also, *(ANSI®* standard U-cards must be equipped in ISLU line groups that have the LGP 553B power circuit pack. NOTE: Line group powering arrangements within a single ISLU LG of 32 cards may be any one of the following:

(1) LGP KCD2 with T cards only, and no APC is populated.

(2) LGP KCD2 with T cards, Z cards, or 5E4 U cards and a -5 volt APC (PCLCAPC) in card slot 8 is populated.

(3) LGPS 553A with T cards, Z cards, or 5E4 U cards and no APC is populated.

(4) *ANSI®* standard U cards must only be populated with the LGP 553B power circuit pack.

(5) LGP 553B and any combination of T cards, U cards, or Z cards are populated, and no APC is populated.

**Attribute: dpidb_mask**

**Fullname:** DPIDB mask

**Attribute Description** This is a 32-bit mask that specified the timeslots on an LGC that are reserved for DPIDB permanent connections to the PSIU. If a bit in this mask is a '0', then the timeslot corresponding to that bit (0 being the low order bit) is reserved for a DPIDB connection. If the LGC is in a SMGROW or SMUNEQ state, dpidb_mask should be set to 0xffffffff, (since an LGC in these states cannot have cards that are SMOPER, hence, no DPIDB timeslots need be reserved for nailup to the PSIU.) The default value for populating this attribute is 0xffffffff. RISLU should always populate this attribute with 0xffffffff. The following table illustrates which timeslots on a particular LGC are valid candidates for nailup connections.

**Defines:**"db/DMportindx.h", "db/DMcircuit.h"

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# ISLUPIDB

## 1. Description

This relation describes the type and the connections of PIDBs associated with a RISLU(2)/ISLU(2) or IDCU service group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 154 |
| expected number of tuples | 3 |
| density | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | PCislupidb_trg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
ISLUPIDB    relid = 618   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     picb        DMPICB       (ushort)     <--- key
     dchan       DMDCHAN      (enum: 4)
 (a) cdconfig    DMCDCONFIG   (enum: 4)
     pidb0       DMISLUPIDB   (struct)
         name        DMCIRCUIT    (ushort)
         type        DMPIDBTYPE   (enum: 4)
         assoc       DMCIRCUIT    (ushort)
         assoc_dp    DMUCHAR      (uchar)
     pidb1       DMISLUPIDB   (struct)
         name        DMCIRCUIT    (ushort)
         type        DMPIDBTYPE   (enum: 4)
         assoc       DMCIRCUIT    (ushort)
         assoc_dp    DMUCHAR      (uchar)
     pidb2       DMISLUPIDB   (struct)
         name        DMCIRCUIT    (ushort)
         type        DMPIDBTYPE   (enum: 4)
         assoc       DMCIRCUIT    (ushort)
         assoc_dp    DMUCHAR      (uchar)
     pidb3       DMISLUPIDB   (struct)
         name        DMCIRCUIT    (ushort)
         type        DMPIDBTYPE   (enum: 4)
         assoc       DMCIRCUIT    (ushort)
         assoc_dp    DMUCHAR      (uchar)
     pidb4       DMISLUPIDB   (struct)
         name        DMCIRCUIT    (ushort)
         type        DMPIDBTYPE   (enum: 4)
         assoc       DMCIRCUIT    (ushort)
         assoc_dp    DMUCHAR      (uchar)
     pidb5       DMISLUPIDB   (struct)
         name        DMCIRCUIT    (ushort)
         type        DMPIDBTYPE   (enum: 4)
```

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```
    assoc       DMCIRCUIT    (ushort)
    assoc_dp    DMUCHAR      (uchar)
pidb6       DMISLUPIDB   (struct)
    name        DMCIRCUIT    (ushort)
    type        DMPIDBTYPE   (enum: 4)
    assoc       DMCIRCUIT    (ushort)
    assoc_dp    DMUCHAR      (uchar)
pidb7       DMISLUPIDB   (struct)
    name        DMCIRCUIT    (ushort)
    type        DMPIDBTYPE   (enum: 4)
    assoc       DMCIRCUIT    (ushort)
    assoc_dp    DMUCHAR      (uchar)
pidb8       DMISLUPIDB   (struct)
    name        DMCIRCUIT    (ushort)
    type        DMPIDBTYPE   (enum: 4)
    assoc       DMCIRCUIT    (ushort)
    assoc_dp    DMUCHAR      (uchar)
pidb9       DMISLUPIDB   (struct)
    name        DMCIRCUIT    (ushort)
    type        DMPIDBTYPE   (enum: 4)
    assoc       DMCIRCUIT    (ushort)
    assoc_dp    DMUCHAR      (uchar)
pidb10      DMISLUPIDB   (struct)
    name        DMCIRCUIT    (ushort)
    type        DMPIDBTYPE   (enum: 4)
    assoc       DMCIRCUIT    (ushort)
    assoc_dp    DMUCHAR      (uchar)
pidb11      DMISLUPIDB   (struct)
    name        DMCIRCUIT    (ushort)
    type        DMPIDBTYPE   (enum: 4)
    assoc       DMCIRCUIT    (ushort)
    assoc_dp    DMUCHAR      (uchar)
pidb12      DMISLUPIDB   (struct)
    name        DMCIRCUIT    (ushort)
    type        DMPIDBTYPE   (enum: 4)
    assoc       DMCIRCUIT    (ushort)
    assoc_dp    DMUCHAR      (uchar)
pidb13      DMISLUPIDB   (struct)
    name        DMCIRCUIT    (ushort)
    type        DMPIDBTYPE   (enum: 4)
    assoc       DMCIRCUIT    (ushort)
    assoc_dp    DMUCHAR      (uchar)
pidb14      DMISLUPIDB   (struct)
    name        DMCIRCUIT    (ushort)
    type        DMPIDBTYPE   (enum: 4)
    assoc       DMCIRCUIT    (ushort)
    assoc_dp    DMUCHAR      (uchar)
pidb15      DMISLUPIDB   (struct)
    name        DMCIRCUIT    (ushort)
    type        DMPIDBTYPE   (enum: 4)
    assoc       DMCIRCUIT    (ushort)
    assoc_dp    DMUCHAR      (uchar)
pidb16      DMISLUPIDB   (struct)
    name        DMCIRCUIT    (ushort)
```

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```
        type        DMPIDBTYPE   (enum: 4)
        assoc       DMCIRCUIT    (ushort)
        assoc_dp    DMUCHAR      (uchar)
    pidb17      DMISLUPIDB   (struct)
        name        DMCIRCUIT    (ushort)
        type        DMPIDBTYPE   (enum: 4)
        assoc       DMCIRCUIT    (ushort)
        assoc_dp    DMUCHAR      (uchar)
    pidb18      DMISLUPIDB   (struct)
        name        DMCIRCUIT    (ushort)
        type        DMPIDBTYPE   (enum: 4)
        assoc       DMCIRCUIT    (ushort)
        assoc_dp    DMUCHAR      (uchar)
    pidb19      DMISLUPIDB   (struct)
        name        DMCIRCUIT    (ushort)
        type        DMPIDBTYPE   (enum: 4)
        assoc       DMCIRCUIT    (ushort)
        assoc_dp    DMUCHAR      (uchar)
    pidb20      DMISLUPIDB   (struct)
        name        DMCIRCUIT    (ushort)
        type        DMPIDBTYPE   (enum: 4)
        assoc       DMCIRCUIT    (ushort)
        assoc_dp    DMUCHAR      (uchar)
    pidb21      DMISLUPIDB   (struct)
        name        DMCIRCUIT    (ushort)
        type        DMPIDBTYPE   (enum: 4)
        assoc       DMCIRCUIT    (ushort)
        assoc_dp    DMUCHAR      (uchar)
    pidb22      DMISLUPIDB   (struct)
        name        DMCIRCUIT    (ushort)
        type        DMPIDBTYPE   (enum: 4)
        assoc       DMCIRCUIT    (ushort)
        assoc_dp    DMUCHAR      (uchar)
        User, Compacted and Stored Tuple Layout   ISLUPIDB
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |       |       |               |
 0 |              picb             | dchan |   a   |***************|
   |===============+============ pidb0 ============+===============|
   |                               |       |                       |
 4 |               name            |  type |***********************|
   |---------------+---------------+---------------+---------------|
   |                               |               |               |
 8 |              assoc            |    assoc_dp   |***************|
   |===============+============ pidb1 ============+===============|
   |                               |       |                       |
12 |               name            |  type |***********************|
   |---------------+---------------+---------------+---------------|
   |                               |               |               |
16 |              assoc            |    assoc_dp   |***************|
   |===============+============ pidb2 ============+===============|
   |                               |       |                       |
20 |               name            |  type |***********************|
```

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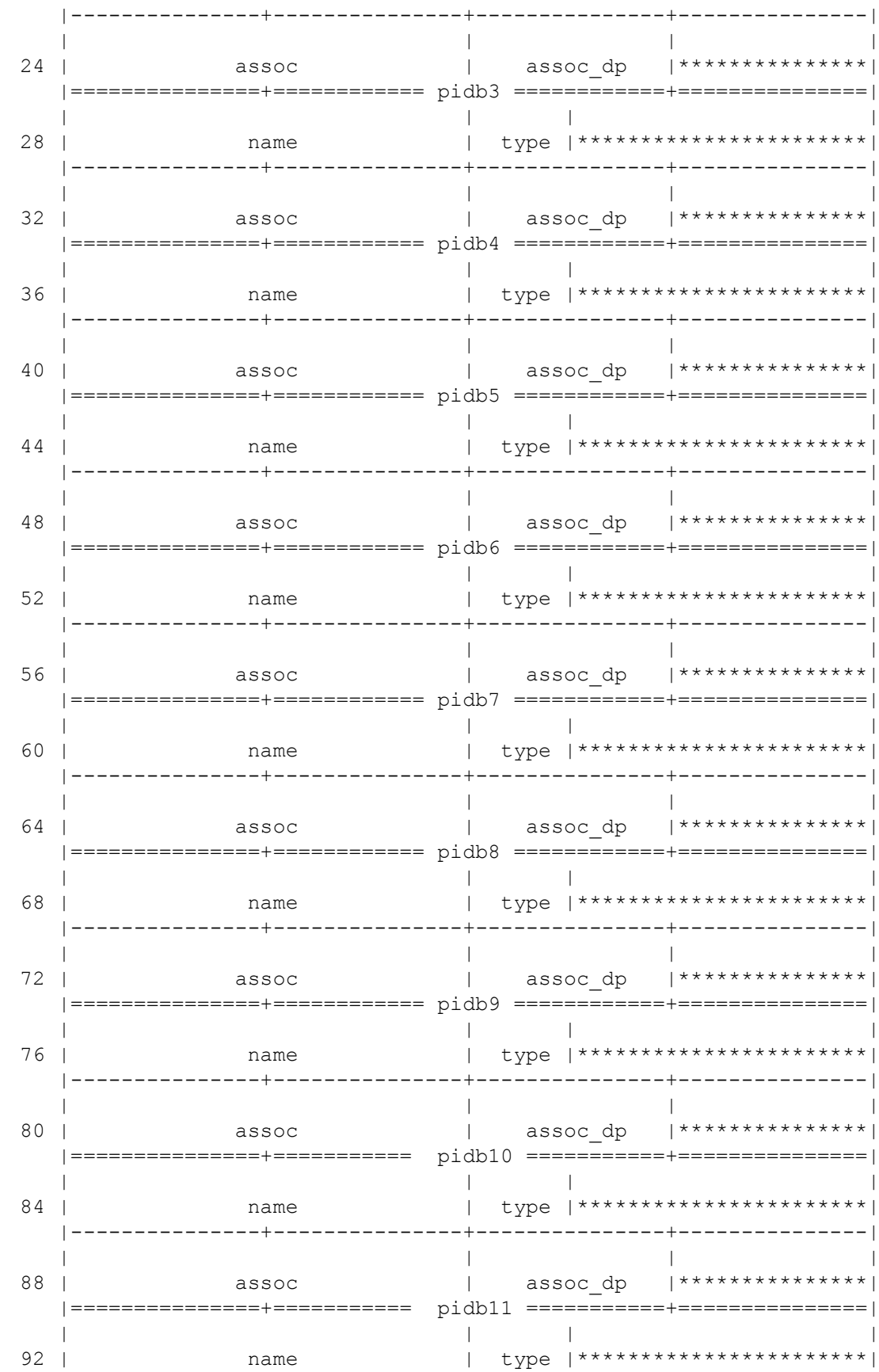


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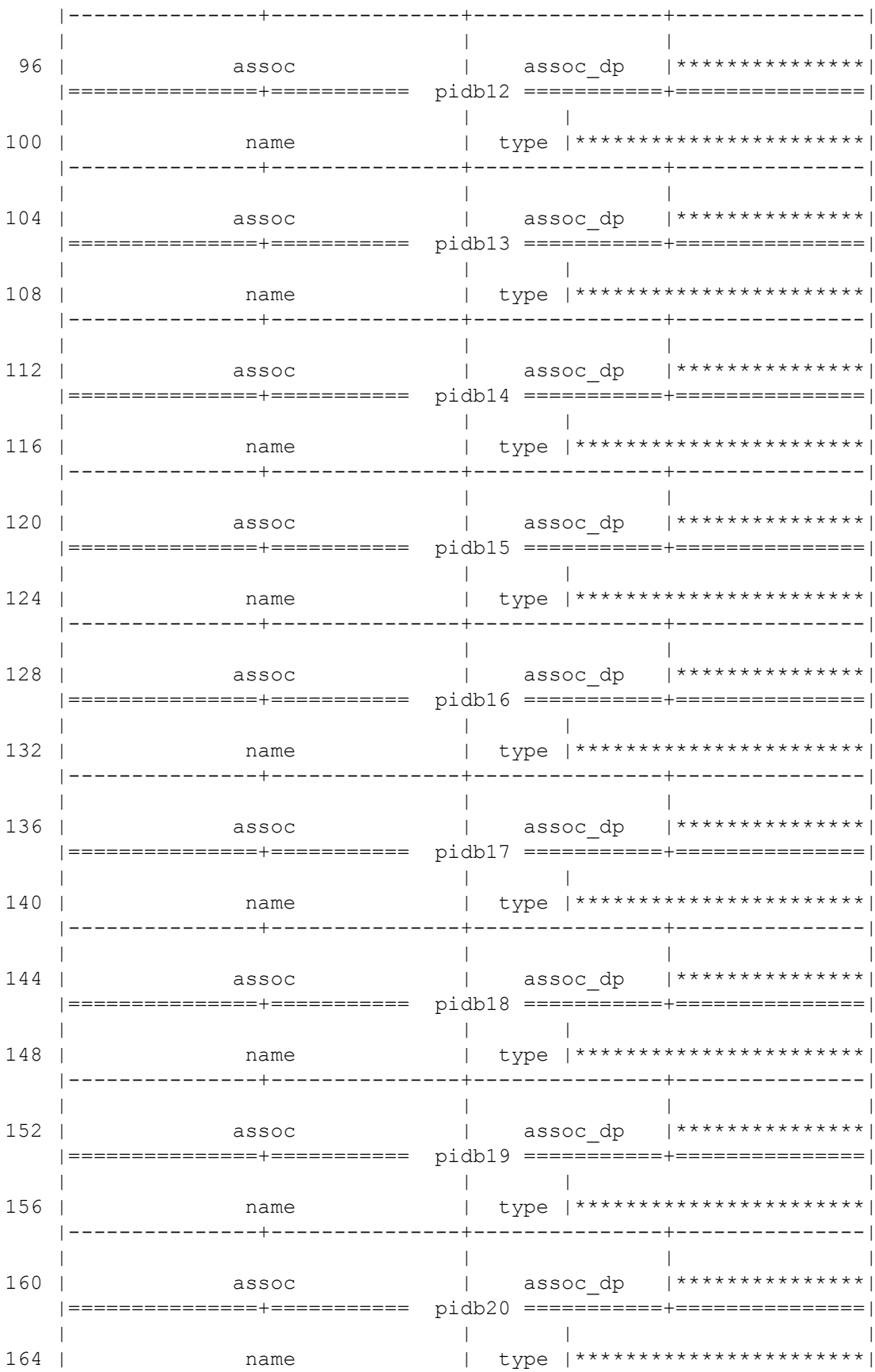


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```
    |--------------+--------------+--------------+--------------|
    |                             |              |              |
168 |             assoc           |    assoc_dp  |**************|
    |==============+===========  pidb21 ==========+==============|
    |                             |       |                     |
172 |              name           |  type |**********************|
    |--------------+--------------+--------------+--------------|
    |                             |              |              |
176 |             assoc           |    assoc_dp  |**************|
    |==============+===========  pidb22 ==========+==============|
    |                             |       |                     |
180 |              name           |  type |**********************|
    |--------------+--------------+--------------+--------------|
    |                             |              |              |
184 |             assoc           |    assoc_dp  |**************|
    |==============+==============+==============+==============|
       ( 188 bytes )
domain alISLUPIDB struct  (4 sub-attributes)
         picb        unsigned short (ushort)
         dchan       .2.fake      (enum: 4)
 (a)     cdconfig    .3.fake      (enum: 4)
         pidb        .4.fake      (array [ 23 ] of .4fake )
             name        unsigned short (ushort)
             type        .3fake       (enum)
             assoc       unsigned short (ushort)
             assoc_dp    unsigned char (uchar)
         Structure Layout    alISLUPIDB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |                             |       |      |              |
  0 |              picb           | dchan |   a  |**************|
    |==============+========== pidb[0] ==========+==============|
    |                             |       |                     |
  4 |              name           |  type |**********************|
    |--------------+--------------+--------------+--------------|
    |                             |              |              |
  8 |             assoc           |    assoc_dp  |**************|
    |==============+========== pidb[1] ==========+==============|
    |                             |       |                     |
 12 |              name           |  type |**********************|
    |--------------+--------------+--------------+--------------|
    |                             |              |              |
 16 |             assoc           |    assoc_dp  |**************|
    |==============+========== pidb[2] ==========+==============|
    |                             |       |                     |
 20 |              name           |  type |**********************|
    |--------------+--------------+--------------+--------------|
    |                             |              |              |
 24 |             assoc           |    assoc_dp  |**************|
    |==============+========== pidb[3] ==========+==============|
    |                             |       |                     |
 28 |              name           |  type |**********************|
    |--------------+--------------+--------------+--------------|
```

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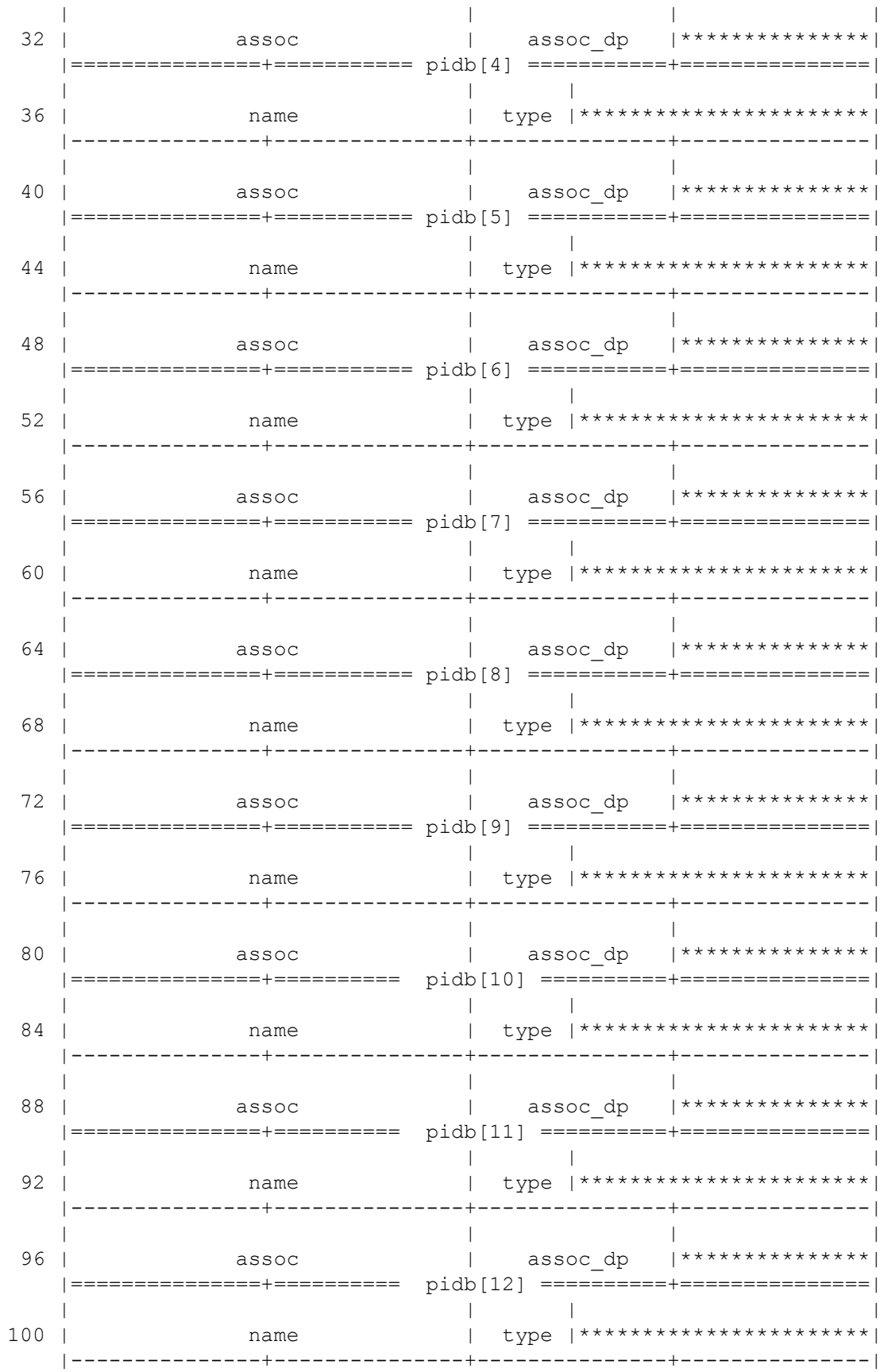
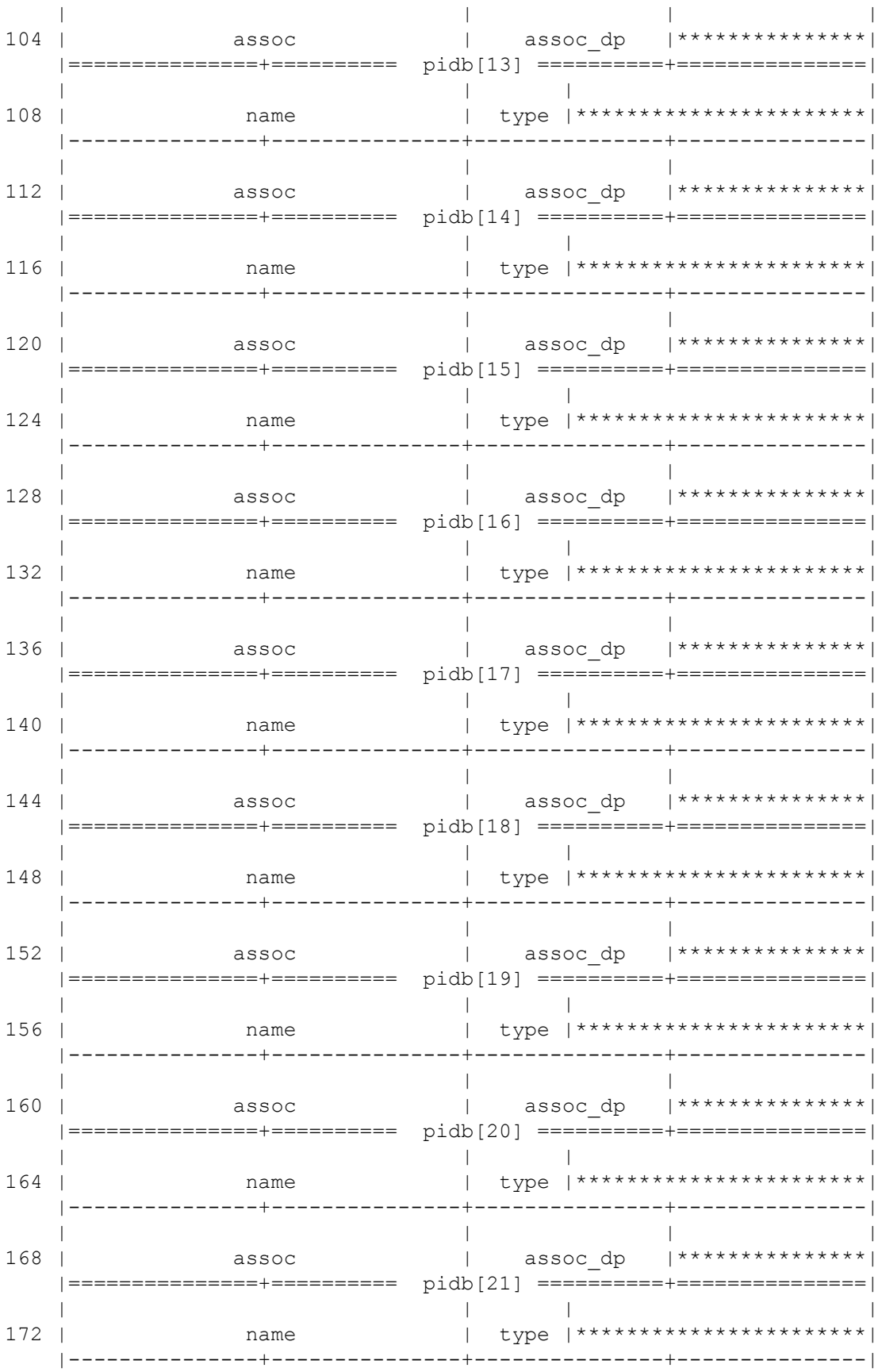

assoc
assoc_dp
pidb[4]
name
type
assoc
assoc_dp
pidb[5]
name
type
assoc
assoc_dp
pidb[6]
name
type
assoc
assoc_dp
pidb[7]
name
type
assoc
assoc_dp
pidb[8]
name
type
assoc
assoc_dp
pidb[9]
name
type
assoc
assoc_dp
pidb[10]
name
type
assoc
assoc_dp
pidb[11]
name
type
assoc
assoc_dp
pidb[12]
name
type

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```
    |                                |                |                |
176 |             assoc              |    assoc_dp    |****************|
    |================+===========  pidb[22] ==========+================|
    |                                |        |                        |
180 |               name             |  type  |************************|
    |----------------+---------------+--------+-----------------------|
    |                                |                |                |
184 |             assoc              |    assoc_dp    |****************|
    |================+===============+================+================|
       ( 188 bytes )
```

## 4. Population Rules for RLislupidb

**Relation Description**
Integrated Services Line Unit (ISLU(2)) Peripheral Interface Data Bus (PIDB) connections.

This relation describes the type and the connections of PIDBs associated with a RISLU, ISLU(2), or IDCU service group.

**Attribute: picb**

**Fullname:** Peripheral interface control bus (PICB)

**Attribute Description** The PICB of the service group. For RISLU, use the remote PICB number for the service group. A corresponding tuple is required in RLpicb, with unittype of SMISLU for ISLU, SMRISLU for RISLU, SMISLU2 for ISLU2, and SMIDCU for IDCU.

**Attribute: dchan**

**Fullname:** D-channel type

**Attribute Description** Valid values are PCDCUT for cut-through and PCDIRCON for directly connected. If PCDCUT on an RISLU, there must be at least one PIDB type (see the following attributes pidb0-pidb11) of PCRDUALPIDB and there may not be any PIDB types of PCDPIDB. PCDIRCON is the only valid D-channel type supported by ISLU(2) while PCDCUT is the only valid D-channel type for RISLU.

**Attribute: cdconfig**

**Fullname:** Common data pack (CD) configuration

**Attribute Description** Valid values are:

PCACTSTBY - - ISLU(2)/IDCU active/standby

PCLDSHRD - - ISLU(2) load shared

PCRACTSBY - - RISLU active/standby

PCROSPS - - RISLU active/standby, OSPS applications

PCSPROSPS - - RISLU active/standby, OSPS, facility sparing

If PCACTSTBY, there must be at least one PIDB type of PCDUAL PIDB in this tuple (no PCISLUPIDB's are allowed for PCACTSTBY cdconfig). If PCLDSHRD, there must be at least one

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PIDB type of PCISLUPIDB (for a B-channel). If PCRACTSBY, PCROSPS, or PCSPROSPS, the only valid PIDB type is PCRDUALPIDB.

| | port | dchan | cdconfig | PIDBtype |
|---|---|---|---|---|
| 1. | D channel | PCDIRCON | PCACTSBY | PCDPIDB |
| 2. | D channel | PCDIRCON | PCLDSHRD | PCDPIDB |
| 3. | D channel | PCDCUT | PCRACTSBY | PCRDUALPIDB |
| 4. | D channel | PCDCUT | PCROSPS | PCRDUALPIDB |
| 5. | D channel | PCDCUT | PCSPROSPS | PCRDUALPIDB |
| 8. | CS B channel | don't care | PCACTSTBY | PCDUALPIDB |
| 9. | CS B channel | don't care | PCLDSHRD | PCISLUPIDB |
| 10. | CS B channel | don't care | PCRACTSTBY | PCRDUALPIDB |
| 11. | CS B channel | don't care | PCROSPS | PCRDUALPIDB |
| 12. | CS B channel | don't care | PCSPROSPS | PCRDUALPIDB |
| 13. | PS B channel | PCDIRCON | PCACTSBY | PCDPIDB |
| 14. | PS B channel | PCDIRCON | PCLDSHRD | PCDPIDB |
| 15. | PS B channel | PCDCUT | PCRACTSBY | PCRDUALPIDB |
| 16. | PS B channel | PCDCUT | PCROSPS | PCRDUALPIDB |
| 17. | PS B channel | PCDCUT | PCSPROSPS | PCRDUALPIDB |
| 18. | CS Analog | don't care | PCACTSTBY | PCDUALPIDB |
| 19. | CS Analog | don't care | PCLDSHRD | PCISLUPIDB |
| 20. | CS Analog | PCDCUT | PCRACTSBY | PCRDUALPIDB |
| 21. | CS Analog | PCDCUT | PCROSPS | PCRDUALPIDB |
| 22. | CS Analog | PCDCUT | PCSPROSPS | PCRDUALPIDB |

CS = Circuit-switched
PS = Packet-switched

On an ISLU(2) with digital subscriber lines (DSLs), there must be at least one PCDUALPIDB or PCDPIDB to carry D-channels on a CD. To carry B-channels, there must be at least one PCDUALPIDB or PCISLUPIDB on a CD.

**Attribute: pidb[*]**

**Fullname:** PIDB

**Attribute Description** The 'x'th connection on the CD. For ISLU(2)/RISLU, connections zero through five are on board 1 and connections 6 through 11 are on board 1. This attribute is a structure of the following form:

name - - The circuit name of the PIDB in rlCKTDATA, and is of type DMCIRCUIT.

type - - The PIDB type of the PIDB, and is of type DMPIDBTYPE.

assoc_ckt - - The circuit to which the PIDB is attached, and is of type DMCIRCUIT.

assoc_dp - - The position on the packet switch interface unit (PSIU) shelf of a directly connected PIDB.

The following restrictions exist for the assignment of PIDBs and DPIDBs on IDCU:

pidb0 - always has a type of PCDUALPIDB and should always be equipped on the IDCU.

pidb1...pidb11 - may have a type of PCNULLPIDB or PCDUALPIDB as these pidb positions on the IDCU may not be equipped or may be connected to the TSIU on the SMP.

pidb12...pidb15 - may have any of the allowed types (PCNULLPIDB, PCDUALPIDB, or PDPIDB).

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pidb16...pidb22 - may have a type of PCNULLPIDB or PCDPIDB as they must either be unequipped or connect to the PSIU.

**Attribute: pidb[*].name**

**Fullname:** Circuit name

**Attribute Description** The circuit name of the PIDB. The PIDB must be represented in RLcktdata and vice versa. If the PIDB is not present in CKTDATA, then the name should be set to zero.

**Attribute: pidb[*].type**

**Fullname:** PIDB type

**Attribute Description** PIDB type from DMpidbtype.

PCDUALPIDB - - The PIDB is one of a pair of PIDBs running active/standby in the ISLU(2) or IDCU. PIDBs of type PCDUALPIDB must terminate at the time slot interchange unit (TSIU). A pair of dual PIDBs provides an active path and a standby path over a PIDB and its mate. This means that there must exist a PIDB of type PCDUALPIDB on the other service group with the same CD board and PIDB number as this PIDB. PIDBs of type PCDUALPIDB always have a 'mate' PIDB on the other service group. 'Mate' PIDBs that connect to the TSIU (such as PCDUALPIDB) must connect to the same TSIU DI at paired DI connections (0,1), (2,3), (4,5), (6,7), (8,9), (10,11), (12,13) or (14,15). The 'mate' PIDB from service group 0 must go to lower member of the pair; therefore, the mate PIDB from service group 1 must connect to the higher member of the pair. The 'pidb' attribute in RLcktdata for each PIDB of type PCDUALPIDB must reflect the correct DI connection for that PIDB. A PIDB of this type has an entry in RLpidb. One set of 32 PTSBs is allocated in dynamic data for the dual PIDB pair. This type is only valid on an ISLU(2) or IDCU.

PCISLUPIDB - The PIDB in the ISLU(2) provides a path to the TSIU. This PIDB is load-shared. This type is only valid on an ISLU(2). PIDBs of this type must terminate on a TSIU. Even though they are load-shared, PIDBs of type PCISLUPIDB always have a 'mate' PIDB on the other ISLU 'Mate' ISLU(2) PIDBs that connect to the TSIU (such as PCISLUPIDB) must connect to the same TSIU DI at paired DI connections (0,1), (2,3), (4,5), (6,7), (8,9), (10,11), (12,13) or (14,15). The 'mate' PIDB from ISLU(2) service group 0 must go to lower member of the pair; therefore, the mate PIDB from ISLU(2) service group 1 must connect to the higher member of the pair. The 'pidb' attribute in RLcktdata for each PIDB of type PCDUALPIDB must reflect the correct DI connection for that PIDB. A PIDB of this type has an entry in RLpidb. A PTSB is allocated in dynamic data for each of the 32 time slots on the PIDB. For each PCISLUPIDB, there must be a PCISLUPIDB with the same PIDB number on the other CD (that is, the PCISLUPIDBs must be equipped in pairs).

PCDPIDB - - The PIDB is one of a pair of PIDBs running active/standby in the ISLU(2) or IDCU. PIDBs of type PCDPIDB must terminate at the PSIU. A pair of directly connected PIDBs provides an active path and a standby path over a PIDB and its mate. This means that there must exist a PIDB of type PCDPIDB on the other service group with the same CD and PIDB number as this PIDB. One set of 32 PTSBs is allocated in dynamic data for the dual PIDB pair. PIDBs of type

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PCDPIDB on SG0, must have an entry in RLpsiupidb. PIDBs of this type on SG1, do not have a matching entry in RLpsiupidb. It is not allowed to connect any ISLU(2) PIDB of type PCDPIDB to a PSU shelf of circuit data type PCSHLFPSIU, with a cli of 0x3.

PCRDUALPIDB - - The PIDB is connected to a remote digital facility interface (DFI) using remote PIDB fan out, with active/standby CDs on the RISLU. One set of 32 PTSBs is allocated for the fan out pair. Only valid on RISLU.

***NOTE:*** If the PIDB is not present in CKTDATA, then the type feild should be set to PCNULLPIDB as a default value.

**Attribute: pidb[*].assoc**

**Fullname:** Associated circuit

**Attribute Description** The circuit the PIDB is associated with: If PIDB 'type' is PCDUALPIDB, populate 'assoc_ckt' with 0xffff. If PIDB 'type' is PCISLUPIDB, populate 'assoc_ckt' with 0xffff. If PIDB 'type' is PCDPIDB, populate 'assoc_ckt' with the side 0 PSIU shelf circuit name to which the PIDB is attached. If PIDB 'type' is PCRDUALPIDB populate 'assoc_ckt' with the name of DFI-H1 or DFI-H2 circuit that hosts the remote DFI to which the PIDB is connected.

***NOTE 1:*** If the PIDB is not present in CKTDATA, then the assoc_ckt field should be set to 0xffff as a default value.

***NOTE 2:*** Prior to PCR, the previous 0xffff had a NULL connotation. PCR defines NULL as 0x0000 and ERROR CKT as 0xffff. Hence, the values of 0xffff remain but the original NULL connotation was omitted.

**Attribute: pidb[*].assoc_dp**

**Fullname:** PSIU position of a directly connected PIDB

**Attribute Description** The position of the PIDB connection on the PSIU shelf for a directly connected PIDB. The PIDB in position XX should be the same as the PIDB named in the dpidbXX attribute in the RLpsiupidb relation. This attribute should be zero if the PIDB 'type' is not PCDPIDB.

**Defines:** "db/DMcircuit.h"

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# ISMPATH

## 1. Description

This relation defines the inter-SM path for packet switching by defining the terminating ports of the ISM path. The data link terminal DLT port (the key) in the home SM terminates across the inter-SM path on a DLT port in the mate SM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 160 |
| expected tuples in relation | 6 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 9 |
| trigger function | TMismpath |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| ks key store | AUTO |

## 3. Field Layout

```
ISMPATH     relid = 822   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     dlt         DMPORTINDX   (ushort)  <--- key, not stored
     mate_dlt    DMPORTINDX   (ushort)
     mate_sm     DMMODULE     (ushort: 8)
 (a) master      DMBOOL       (enum: 1)
         User and Compacted Tuple Layout    ISMPATH
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |               dlt               |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                 |                 | |           |
  4 |             mate_dlt            |     mate_sm     |a|***********|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     mate_dlt    DMPORTINDX   (ushort)
     mate_sm     DMMODULE     (ushort: 8)
 (a) master      DMBOOL       (enum: 1)
           Stored Tuple Layout      ISMPATH
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                 | |           |
  0 |             mate_dlt            |     mate_sm     |a|***********|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLismpath

### Relation Description

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Inter-sm Path.

This relation defines the inter-SM path for packet switching by defining the terminating ports of the ISM path. The DLT port (the key) in the home SM terminates across the inter-SM path on a DLT port in the mate SM.

**Attribute: dlt**

**Fullname:** Data Link Terminal port index.

**Attribute Description** (Key) ISM DLT port index. This port must be defined in the relation RLfc_porttyp with servclass PSPKT_ISM and lp_type PCISMPT. NOTE: The maximum number of DLT ports allowed on an SM is 160.

**Attribute: mate_sm**

**Fullname:** Mate sm.

**Attribute Description** The mate SM number (1-192) to which this DLT port is connected and which is served by the Inter-SM path. This SM number must be defined in RLmodatt with an equipment status of SMOPER. This SM number cannot match the 'home' SM number.

**Attribute: mate_dlt**

**Fullname:** Mate DLT.

**Attribute Description** the mate DLT 16-Bit Port Index which is served by the Inter-SM path must be define in RLfc_porttyp in the MATE SM with service class PSPKT_ISM and lp_type PCISMPT.

**Attribute: master**

**Fullname:** Master Inter-sm.

**Attribute Description** Populate with either of the following to indicate the controller of the Inter-SM path:
DBYES - controller of the path
DBNO - not controller of the path
One and only one DLT port may be the controller of the Inter-SM path. The corresponding Inter-SM entry in the relation RLismpath in the MATE SM must be checked to verify that the master attribute is populated with the opposite value. Assignment of the master of an ISM path is arbitrary; however, it is recommended that the designation of 'master' be balanced across all SMs as the 'master' performs more functions than the non-master.

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# ISMRSM

## 1. Description

This relation defines the RSMs under an HSM which contain ISM nailups for packet switching.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| expected tuples in relation | 1 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | TMismrsm |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
ISMRSM      relid = 502   DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL
     hostnum     DMMODULE     (ushort: 8)  <--- key
     rsm_cnt     DMRSMNO      (ushort: 5)
     rsmnum00    DMUCHAR      (uchar)
     rsmnum01    DMUCHAR      (uchar)
     rsmnum02    DMUCHAR      (uchar)
     rsmnum03    DMUCHAR      (uchar)
     rsmnum04    DMUCHAR      (uchar)
     rsmnum05    DMUCHAR      (uchar)
     rsmnum06    DMUCHAR      (uchar)
     rsmnum07    DMUCHAR      (uchar)
     rsmnum08    DMUCHAR      (uchar)
     rsmnum09    DMUCHAR      (uchar)
     rsmnum10    DMUCHAR      (uchar)
     rsmnum11    DMUCHAR      (uchar)
     rsmnum12    DMUCHAR      (uchar)
     rsmnum13    DMUCHAR      (uchar)
     rsmnum14    DMUCHAR      (uchar)
     rsmnum15    DMUCHAR      (uchar)
     rsmnum16    DMUCHAR      (uchar)
     rsmnum17    DMUCHAR      (uchar)
     rsmnum18    DMUCHAR      (uchar)
     rsmnum19    DMUCHAR      (uchar)
     rsmnum20    DMUCHAR      (uchar)
     rsmnum21    DMUCHAR      (uchar)
     rsmnum22    DMUCHAR      (uchar)
     rsmnum23    DMUCHAR      (uchar)
     rsmnum24    DMUCHAR      (uchar)
     rsmnum25    DMUCHAR      (uchar)
     rsmnum26    DMUCHAR      (uchar)
     rsmnum27    DMUCHAR      (uchar)
     rsmnum28    DMUCHAR      (uchar)
     rsmnum29    DMUCHAR      (uchar)
         User, Compacted and Stored Tuple Layout ISMRSM
```

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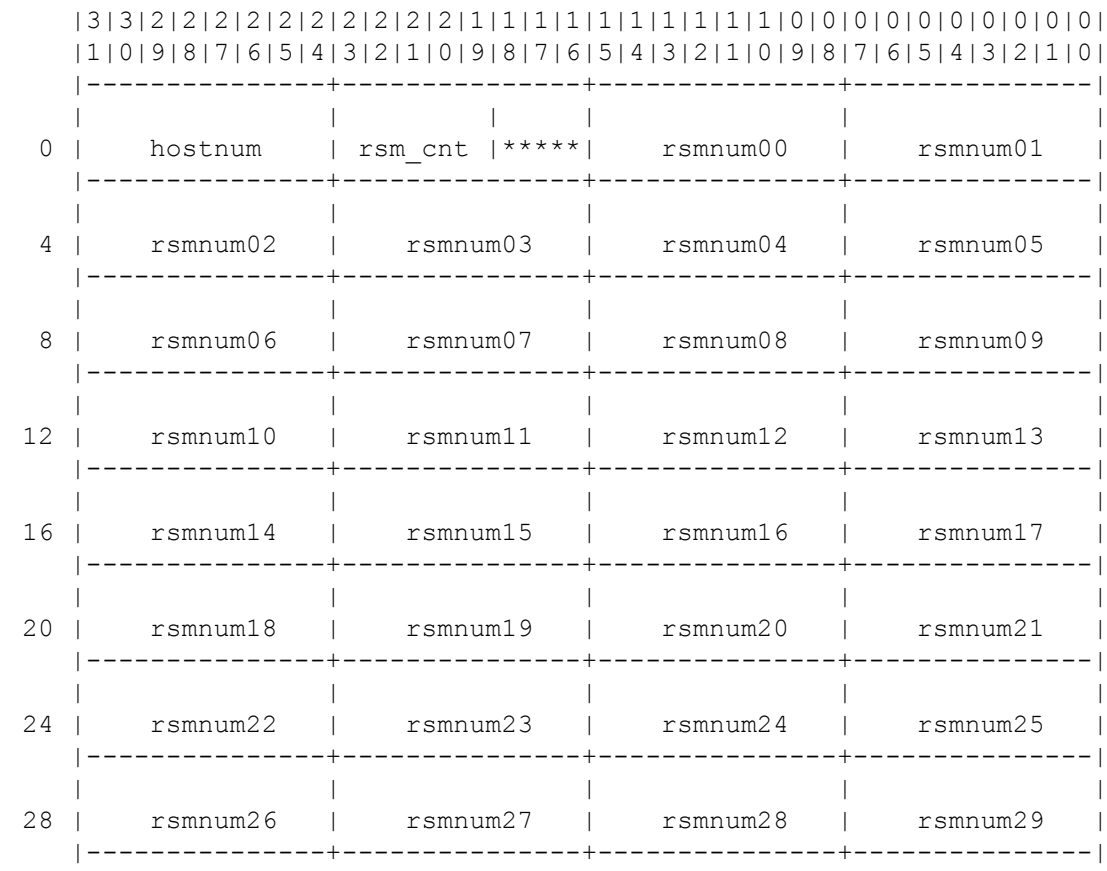
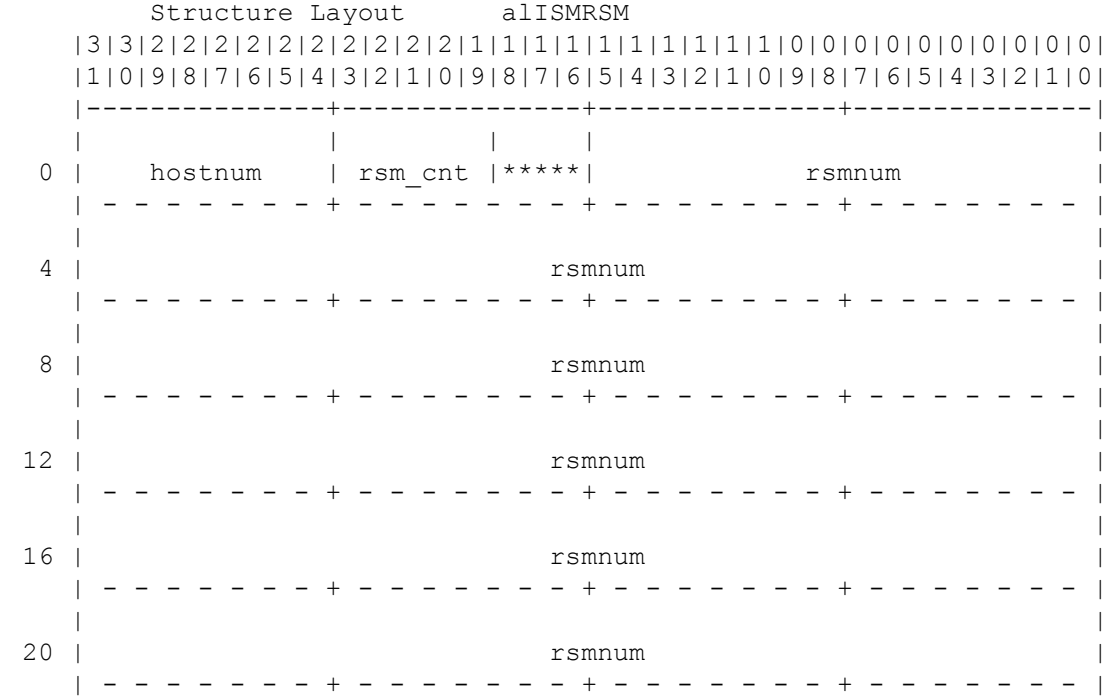



( 32 bytes )

```
domain alISMRSM   struct  (3 sub-attributes)
        hostnum     .2.fake      (ushort)
        rsm_cnt     .3.fake      (ushort: 5)
        rsmnum      .4.fake      (array [ 30 ] of unsigned char )
```

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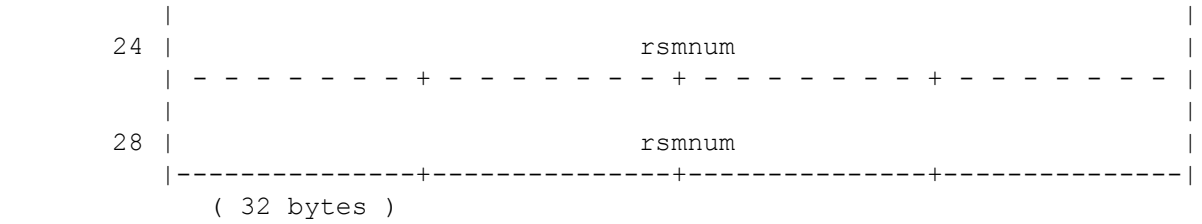


## 4. Population Rules for RLismrsm

**Relation Description**
Integrated services module (ISM - now ISDN/IM) remote SMs.

This relation defines all the RSMs under a given host SM which have ISM nailups for packet switching. There will be 1 tuple in each HSM which has RSM with ISM nailups.
A maximum of 5 RSMs are allowed per HSM for SM.
A maximum of 30 RSMs are allowed per HSM-2000.

**Attribute: hostnum**

**Fullname:** Host SM number

**Attribute Description** The SM number of the Host SM which has RSMs which contain ISM nailups. When a RLtscount tuple is added and the RLmodatt.imtype of RLtscount.module is SM5RSM, then RLmodatt.hostnum is used as the key to this tuple. This tuple resides in the SM module number specified in HOSTNUM and valid values are 1-192.

**Attribute: rsm_cnt**

**Fullname:** RSM count

**Attribute Description** Index to the list of RSMNUM00-RSMNUM29 attributes indicating the position of the last valid entry. This number will always be 1 less than the number of RSMs with ISM nailups for the given HOSTNUM.
For an HSM, this number must be >= 0 and <= 4.
For an HSM-2000, this number must be >= 0 and <= 29.

**Attribute: rsmnum[*]**

**Fullname:** RSM number

**Attribute Description** Each of these 30 attributes can contain a unique RSM module number which has ISM nailups and whose host is this HOSTNUM. Valid assigned values are 1-192, corresponding to a valid RSM number which is the key of an RLtscount tuple. These attributes must be assigned values sequentially starting with RSMNUM00 but no two RSMNUMXX attributes can contain the same value, except the default value of 0. If an RSMNUMXX attribute has no value, its default is 0. This table cannot have any gaps. If an RSM number is deleted from this table, the last valid element in the table is inserted in place of the removed element and the rsm_cnt is decremented. In this way, gaps will never exist in this table.

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# ISQU_CWL

## 1. Description

ISDN calls waiting lamps parameter data.

Maximum tuples determined by the maximum number of multi-line hunt groups (MLHG). The expected tuple data was extracted from a study of field equipment.

(AVMLHGRPS > 2000)
syntax - The number of ISQU_CWL needed has exceeded the maximum engineered

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected number of tuples | 2 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | RTqcwltrg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBNO |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
ISQU_CWL    relid = 903   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     grpnum      DMGRUPNM     (ushort: 11)  <--- key
     cwlmod      DMMODULE     (ushort: 8)
 (a) numcwl      DMUNS2       (ushort: 2)
     cwth1       DMUNS5NB     (uchar)
     cwth2       DMUNS5NB     (uchar)
     cwth3       DMUNS5NB     (uchar)
         User, Compacted and Stored Tuple Layout   ISQU_CWL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |         |                |   |           |
  0 |         grpnum        |*********|     cwlmod     | a |***********|
    |---------------+---------------+---------------+---------------|
    |                |                |                |               |
  4 |      cwth1     |     cwth2      |     cwth3      |***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
domain alISQU_CWL   struct  (4 sub-attributes)
         grpnum      .3.fake      (ushort: 11)
         cwlmod      .4.fake      (ushort)
 (a)     numcwl      .5.fake      (ushort: 2)
         cwth        .6.fake      (array [ 3 ] of unsigned char )
         Structure Layout      alISQU_CWL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |         |                |   |           |
```

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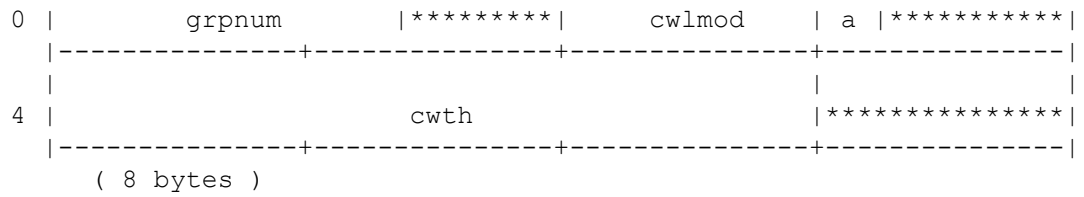


## 4. Population Rules for RLisqu_cwl

**Relation Description**
ISDN calls waiting lamps parameter data.

RLisqu_cwl is used to store information about ISDN feature button multi-line hunt group (MLHG) call waiting lamps. ISDN feature button call waiting lamps are located on the lead member (member 1) of a MLHG. The lead member must therefore be an ISDN digital subscriber line. Up to 3 feature button call waiting lamps may be provided. The lamps turn on to indicate how long calls have been queued for the MLHG. At most one call waiting lamp can be on at a given time. RLisqu_cwl defines the number of call waiting lamps provided for a MLHG and the time thresholds for each lamp. RLqu_cwl provides equivalent information for non-ISDN distribution point call waiting lamps. The call waiting lamp feature button numbers are not defined in this relation. These can be determined as follows.

(1) Identify the MLHG lead member using RLgroup_port.
```
RLgroup_port.portgrp.grpnum is RLisqu_cwl.grpnum
RLgroup_port.portgrp.grptype is TM_LINE
RLgroup_port.member is 1.
```

(2) If member 1 is ISDN, identify the feature button configuration group for lead for member 1 using RLis_line.
```
RLis_line.ltm_idxi is RLgroup_port.ltm_idx.
RLis_line.lead_module is RLisqu_cwl.cwlmod.
```

(3) Predefined feature and actions identify the call waiting lamp feature buttons within the feature button configuration group. RLfeatbn.config is RLis_term.config.
```
RLfeatbn.fid is the queuing wild card feature.
RLfeatbn.action is ACN_QCW1L for call waiting lamp 1.
RLfeatbn.action is ACN_QCW2L for call waiting lamp 2.
RLfeatbn.action is ACN_QCW3L for call waiting lamp 3.
```

**Attribute: grpnum**

**Fullname:** hunt group number

**Attribute Description** This hunt group must be a key to RLrt_mhg, and the identified RLrt_mhg tuple must have qmodule = to the module that this isqu_cwl tuple is on and RLrt_mhg.qfid must be non-NULL. There must be a RLqu_cfdfl tuple keyed by RLrt_mhg.qfid. In that RLqu_cfdfl tuple RLqu_cfdfl.cwl must be DBYES and RLqu_cfdfl.lmptyp must be IS_FB (feature button) and RLqu_cfdfl.threstyp must be IS_T (time)

**Attribute: cwlmod**

**Fullname:** module of the lead member of the MLHG

**Attribute Description** For a RLis_line.ltm_idx that is:
```
a) primary, not shared-analog and has a configuration
   group assigned
```

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```
   OR
      b) secondary, not shared, with a configuration group
```

RLisqu_cwl.cwlmod is set to the module number where the lead member of this grpnum is located. To compute this, take grpnum together with member 1 as the key to RLgroup_port. For the chosen tuple, RLgroup_port port.module is referred to as the lead module or RLisqu_cwl.cwlmod. For all other cases, RLisqu_cwl.cwlmod is set to 0.

**Attribute: numcwl**

**Fullname:** number of calls waiting lamps allowed

**Attribute Description** Number of calls waiting lamps allowed.

**Attribute: cwth[*]**

**Fullname:** call waiting lamp threshold

**Attribute Description** The age of the oldest call in the MLHG queue determines which, if any, of the call waiting lamps is lit. At most 1 call waiting lamp is lit at any given time. The threshold times are given in terms of 6 second intervals. If 1 call waiting lamp is provided then when calls wait in the queue more than cwth1 6 second intervals then call waiting lamp1 is lit. If 2 or more call waiting lamps are provided then when calls wait in the queue more than cwth2 6 second intervals then call waiting lamp1 is turned off and call waiting lamp2 is lit. If 3 call waiting lamps are provided then when calls wait in the queue more than cwth3 6 second intervals then call waiting lamp2 is turned off and call waiting lamp3 is lit.

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# ISRMBLST

## 1. Description

Multiline hunt group random make busy list for isdn voice groups.

Maximum tuples derived from the maximum number of multi-line hunt groups (MLHG) (2000). The expected tuple and density data was extracted from a study of field equipment.

(AVMLHGRPS > 2000)
syntax - The number of ISRMBLST needed has exceeded the maximum engineered

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected number of tuples | 2 |
| density | 14 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |
| trigger function | RTisrmtrg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
ISRMBLST    relid = 1444  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    GCRTG
     grpnum      DMGRUPNM     (ushort: 11)  <--- key
     subgrp      DMUNS8       (ushort: 8)  <--- key
 (a) bsytrt      DMBSYTRT     (enum: 2)
     length      DMSHORT      (short)
     fbown       DMMEMBER     (ushort)
     mbr1        DMULONG      (ulong)
     mbr2        DMULONG      (ulong)
     mbr3        DMULONG      (ulong)
     mbr4        DMULONG      (ulong)
     mbr5        DMULONG      (ulong)
     mbr6        DMULONG      (ulong)
     mbr7        DMULONG      (ulong)
     mbr8        DMULONG      (ulong)
     mbr9        DMULONG      (ulong)
     mbr10       DMULONG      (ulong)
     mbr11       DMULONG      (ulong)
     mbr12       DMULONG      (ulong)
     mbr13       DMULONG      (ulong)
     mbr14       DMULONG      (ulong)
     mbr15       DMULONG      (ulong)
     mbr16       DMULONG      (ulong)
     mbr17       DMULONG      (ulong)
     mbr18       DMULONG      (ulong)
     mbr19       DMULONG      (ulong)
     mbr20       DMULONG      (ulong)
```

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```
 mbr21       DMULONG      (ulong)
 mbr22       DMULONG      (ulong)
 mbr23       DMULONG      (ulong)
 mbr24       DMULONG      (ulong)
 mbr25       DMULONG      (ulong)
 mbr26       DMULONG      (ulong)
 mbr27       DMULONG      (ulong)
 mbr28       DMULONG      (ulong)
 mbr29       DMULONG      (ulong)
 mbr30       DMULONG      (ulong)
 mbr31       DMULONG      (ulong)
 mbr32       DMULONG      (ulong)
 mbr33       DMULONG      (ulong)
 mbr34       DMULONG      (ulong)
 mbr35       DMULONG      (ulong)
 mbr36       DMULONG      (ulong)
 mbr37       DMULONG      (ulong)
 mbr38       DMULONG      (ulong)
 mbr39       DMULONG      (ulong)
 mbr40       DMULONG      (ulong)
 mbr41       DMULONG      (ulong)
 mbr42       DMULONG      (ulong)
 mbr43       DMULONG      (ulong)
 mbr44       DMULONG      (ulong)
 mbr45       DMULONG      (ulong)
 mbr46       DMULONG      (ulong)
 mbr47       DMULONG      (ulong)
 mbr48       DMULONG      (ulong)
 mbr49       DMULONG      (ulong)
 mbr50       DMULONG      (ulong)
 mbr51       DMULONG      (ulong)
 mbr52       DMULONG      (ulong)
 mbr53       DMULONG      (ulong)
 mbr54       DMULONG      (ulong)
 mbr55       DMULONG      (ulong)
 mbr56       DMULONG      (ulong)
 mbr57       DMULONG      (ulong)
 mbr58       DMULONG      (ulong)
 mbr59       DMULONG      (ulong)
 mbr60       DMULONG      (ulong)
 mbr61       DMULONG      (ulong)
 mbr62       DMULONG      (ulong)
 mbr63       DMULONG      (ulong)
 modmap0     DMGPDMAP     (long)
 modmap1     DMGPDMAP     (long)
 modmap2     DMGPDMAP     (long)
 modmap3     DMGPDMAP     (long)
 modmap4     DMGPDMAP     (long)
 modmap5     DMGPDMAP     (long)
     User, Compacted and Stored Tuple Layout   ISRMBLST
|3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
|---------------+---------------+---------------+---------------|
|                     |         |               |   |           |
```

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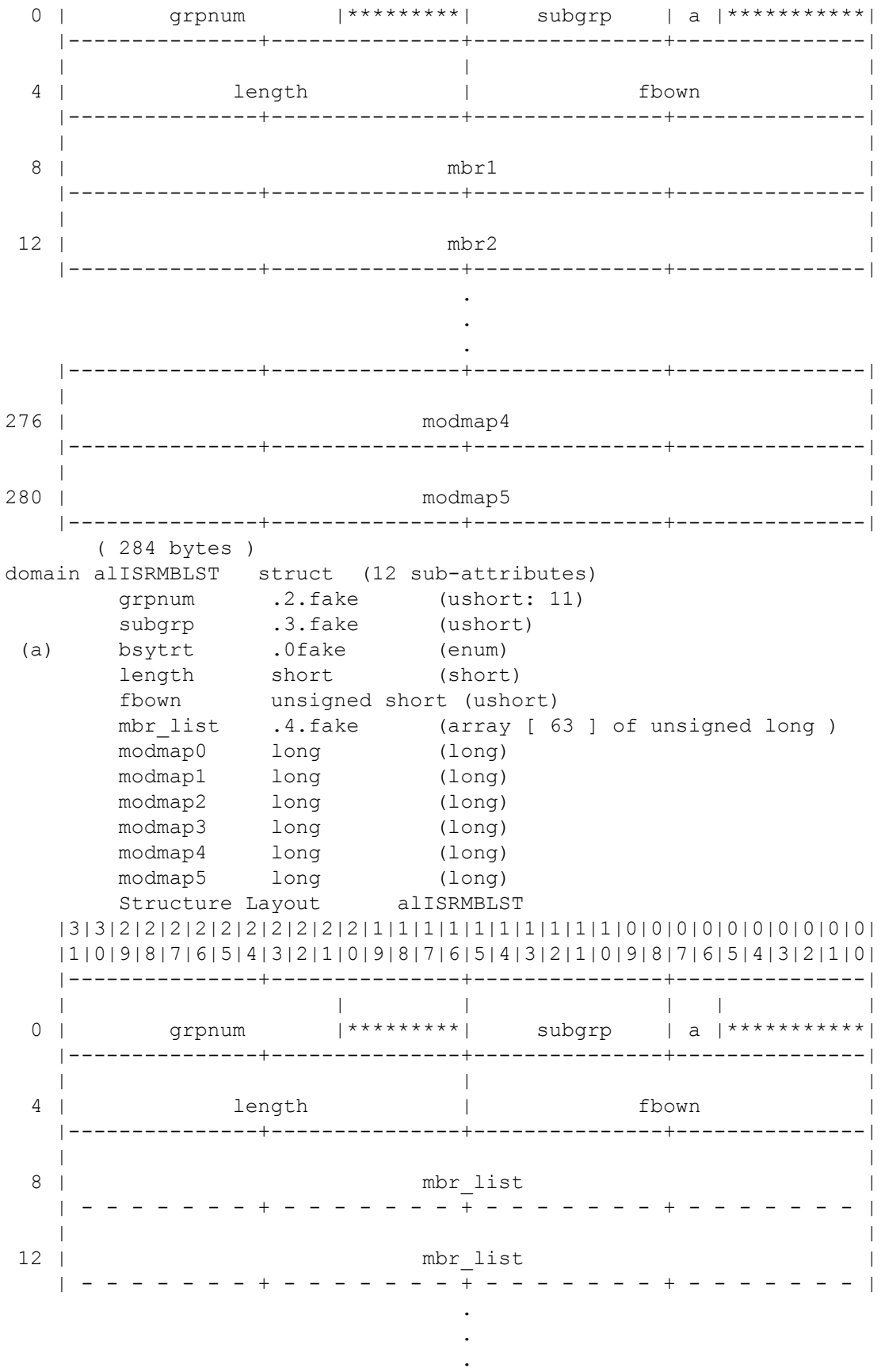
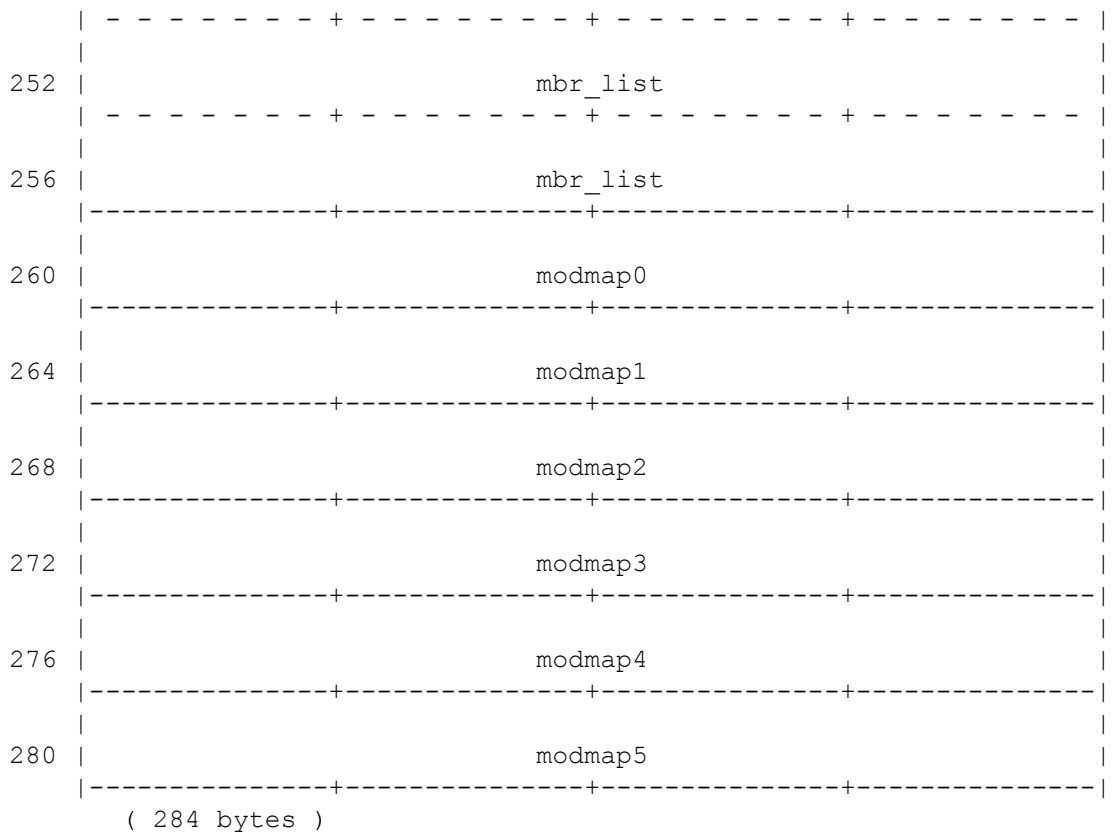

0 | grpnum |*********| subgrp | a |***********|
4 | length | fbown |
8 | mbr1 |
12 | mbr2 |
276 | modmap4 |
280 | modmap5 |
( 284 bytes )
domain alISRMBLST struct (12 sub-attributes)
grpnum .2.fake (ushort: 11)
subgrp .3.fake (ushort)
(a) bsytrt .0fake (enum)
length short (short)
fbown unsigned short (ushort)
mbr_list .4.fake (array [ 63 ] of unsigned long )
modmap0 long (long)
modmap1 long (long)
modmap2 long (long)
modmap3 long (long)
modmap4 long (long)
modmap5 long (long)
Structure Layout alISRMBLST
3 3 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
1 0 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0
0 | grpnum |*********| subgrp | a |***********|
4 | length | fbown |
8 | mbr_list |
12 | mbr_list |




## 4. Population Rules for RLisrmblst

**Relation Description**
Multi-line hunt group random make busy list for ISDN voice groups.

This relation only applies to MLHG's that contain (non-ISAT) ISDN terminals. It is used to specify the MLHG members that is to be associated with a subgrp number for purposes of actions taken when a member make busy button is depressed. RLbikypm provides the mapping from grpnum, member to subgrp number. This concept of subgrp, similar to the analog definition of subgrp used in RLrmblst, is different from the concept of subgrp used for ISAT multi-line hunt groups. Analog subgrps are implicitly defined by using the same scan pt definition for several analog multi-line hunt groups members. For ISDN Multiline hunt group members, a different approach to subgrp definitions is used. ISDN Multiline hunt group members don't have scan points. When a RMB button is depressed then all members assigned to the scan point take this action. A particular tuple must be replicated to the Hunting SM of the group found by using RLhuntkeys.portgrp.grpnum to read RLrt_mhg where RLrt_mhg.module is the module designated as HUNTING MODULE, and as many SM's as contain 1 or more subgrp members. The RMB members are shown in the bitmap representation in this relation. All member numbers in this subgrp must be (non-ISAT) ISDN terminals even though the subgrp may be a part of a larger multi-line hunt group that contains analog members. The distribution type for this relation is GRP_PART. Processors where tuples should be located are listed in attributes RLisrmblst.modmap1 through RLisrmblst. modmap5 in addition to the Hunting SM of the group.

**Attribute: grpnum**

**Fullname:** Group Number

**Attribute Description** Group number of the multi-line hunt group that this random make busy list is associated with.

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**Attribute: subgrp**

**Fullname:** Sub Group

**Attribute Description** The subgroup number of the random make busy list. The members in this group are a subset of a multi line hunt group.

**Attribute: bsytrt**

**Fullname:** Busy Treatment

**Attribute Description** Specifies what type of busy feature treatment applies to this set of members.

**Attribute: length**

**Fullname:** Length (size of subgroup)

**Attribute Description** Number of members under control of the Random Make Busy Key. (Number of members in the subgroup.)

**Attribute: fbown**

**Fullname:** Feature Button Owner

**Attribute Description** This is the number of the member who owns the feature button that controls the Random Make Busy Group. (Specifys the member whose feature button will be lit as a result of feature activation.)

**Attribute: mbr1**

**Fullname:** A 32 bit field of members

**Attribute Description** Used as a bit map of 32 members. Each 32 bit field represents 32 multi-line hunt group members. (A bit map of 2016 -- mbr 0 thru 2015) If the member is a part of the RMB group then the bit is ON ( 1 -- DBYES) else the bit is 0. bit 0 of mbr1 is unused. MLHG members are assigned in ascending order going from the least significant bit to the most signification bit.

```
examples:
mbr1 --> 31 - 0
mbr2 --> 63 - 32
mbr3 --> 95 - 64
mbr4 --> 127 - 96  (that is, mbr(1:63)).
```

**Attribute: mbr[*]**

**Fullname:** A 32 bit field of members

**Attribute Description** Used as a bit map of 32 members. Each 32 bit field represents 32 multi-line hunt group members. (A bit map of 2016 -- mbr 0 thru 2015) If the member is a part of the RMB group then the bit is ON ( 1 -- DBYES) else the bit is 0.

**Attribute: modmap0**

**Fullname:** Module Bit Map

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**Attribute Description** Bitmap of 32 SMs. Determines which SMs the members of the Random Make Busy Group are on.

```
modmap0 =  sm's 1 thru 32     --> (least significant bit = sm1)
modmap1 =  sm's 33 thru 64
modmap2 =  sm's 65 thru 96
modmap3 =  sm's 97 thru 128
modmap4 =  sm's 129 thru 160
modmap5 =  sm's 161 thru 192  --> (most significant bit = sm192)
```

**Attribute: modmap[*]**

**Fullname:** Module Bit Map

**Attribute Description** Bitmap of 32 SMs. Determines which SMs the members of the Random Make Busy Group are on.

```
modmap0 =  sm's 1 thru 32
modmap1 =  sm's 33 thru 64
modmap2 =  sm's 65 thru 96
modmap3 =  sm's 97 thru 128
modmap4 =  sm's 129 thru 160
modmap5 =  sm's 161 thru 192
```

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# ISSATND

## 1. Description

Defines certain attributes of attendant configuration groups.

Maximum number of tuples derived as follows:

```
 63   Maximum number of ISAT groups
 x4   configurations allowed per ISAT (enforced by RLisatgrp).
 --
252
```

The expected tuple data was extracted from a study of field equipment.

(AVISATGRPS * 4) > 252)
syntax - The number of ISSATND needed has exceeded the maximum engineered

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 252 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
ISSATND     relid = 953   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     grpnum     fid         DMMCC_FID    (ushort)
     config      DMCONFIG     (ulong: 12)  <--- key
 (a) cpe_pa      DMCPECOMP    (uchar: 3)
     bn_pa       DMBUTTON     (uchar: 8)
     bn_er       DMBUTTON     (uchar: 8)
 (b) cpe_er      DMCPECOMP    (uchar: 3)
        User, Compacted and Stored Tuple Layout    ISSATND
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                       |     | |
  0 |               fid              |         config        |  a  |*|
    |---------------+---------------+---------------+---------------|
    |                |               |     |                         |
  4 |     bn_pa      |     bn_er     |  b  |*************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLissatnd

**Relation Description**
ISDN attendant.

Defines certain attributes of attendant configuration groups. Information concerning this section is not available at this time.

**Attribute: config**

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**Fullname:** configuration group

**Attribute Description** This number must be created and put in RLfacname.facid and RLfid2name.facid before being assigned to RLis_term.config. Unassigned configurations exist only in the AM.

**Attribute: fid**

**Fullname:** multiway feature ID stored under START button

**Attribute Description** This feature ID must be the same as that stored in RLbnfeat.fid with the same config as this relation and the RLbnfeat.action = ACN_ISTART.

**Attribute: cpe_pa**

**Fullname:** CPE component for ISDN attendant position available

**Attribute Description** Presently not used.

**Attribute: bn_pa**

**Fullname:** Button number for ISDN attendant position available

**Attribute Description** Presently not used.

**Attribute: cpe_er**

**Fullname:** CPE component of the ISDN attendant error indicator

**Attribute Description** Information concerning this section is not available at this time.

**Attribute: bn_er**

**Fullname:** Button number of the ISDN attendant error indicator

**Attribute Description** Information concerning this section is not available at this time.

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# ISSCCOF

## 1. Description

Indicates SCCOF status on private facilities controlled by ISDN attendant consoles.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10191 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |
| corcable relation | DBYES |
| trigger function | RTsccoftrg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
ISSCCOF     relid = 949   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    GCRTG
     grpnum       DMGRUPNM      (ushort: 13)      <--- key
 (a) pftype       DMPFTYPE      (enum: 1)      <--- key
 (b) sccof        DMBOOL        (enum: 1)
         User and Compacted Tuple Layout    ISSCCOF
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           | | |                               |
  0 |           grpnum          |a|b|*******************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
     grpnum       DMGRUPNM      (ushort: 13)      <--- key
 (a) pftype       DMPFTYPE      (enum: 1)      <--- key
 (b) sccof        DMBOOL        (enum: 1)
           Stored Tuple Layout      ISSCCOF
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           | | |                               |
  0 |           grpnum          |a|b|*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLissccof

**Relation Description**
Selective Customer Control Of Facilities Status.

Indicates SCCOF status on private facilities controlled by ISDN attendant consoles.

**Attribute: pftype**

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**Fullname:** Private Facility type

**Attribute Description** Indicates if this facility is a simulated facility group (PFSFG) or a physical trunk group (PFPHYS).

**Attribute: grpnum**

**Fullname:** Facility group number

**Attribute Description** Indicates group number of the sfg or physical trunk group capable of having SCCOF invoked.

```
Dependencies:
If pftype = PFSFG
Verify existence of tuple in RLrt_sfg such that key
rlRT_SFG.grpnum = rlISSCCOF.grpnum
rlRT_SFG.sfgmkby = DBYES
If pftype = PFPHYS
Verify existence of type in RLrt_trkg such that key
rlRT_TRKG.grpnum = rlISSCCOF.grpnum
rlRT_TRKG.tkgpmkby = DBYES
```

**Attribute: sccof**

**Fullname:** Selective Customer Control Of Facilities

**Attribute Description** Indicates whether selective customer control of facilities (SCCOF) is active (DBYES) or not active (DBNO) for this group. This indicator (SCCOF) is CORC-able by the ISDN attendant

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# IST_PARM

## 1. Description

Interflow serving team parameters and status information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFR |
| relation type | DBSTATIC |
| trigger function | ACtiservtm |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| ks key store | AUTO |

## 3. Field Layout

```
IST_PARM    relid = 1153  DBSTATIC   DBACC_CIND  DBPRAM    LRFR    NULL
     ctname       DMCTXT10     (array [ 10 ] of char )
     oaff2        DMUSHORT     (ushort)
     osps_id      DMOSPSID     (ushort: 14)
 (a) intra_alwd   DMBOOL       (enum: 1)
 (b) annc_on_lvl1  DMBOOL       (enum: 1)
     ann1_routex  DMRTEIDX     (ushort: 14)
 (c) oaff4        DMBOOL       (enum: 1)
 (d) oaff5        DMBOOL       (enum: 1)
     ann2_routex  DMRTEIDX     (ushort: 14)
 (e) oaff6        DMBOOL       (enum: 1)
     ann3_routex  DMRTEIDX     (ushort: 14)
     tgn_b        DMGRUPNM     (ushort: 13)
     tgn_d        DMGRUPNM     (ushort: 13)
     max_calls    DMUNS13      (ushort: 13)
     ldm_used     DMMEM        (ushort: 12)
     del1_thresh  DMUNS11      (ushort: 11)
     del2_thresh  DMUNS11      (ushort: 11)
     del3_thresh  DMUNS11      (ushort: 11)
     serv_obj     DMUNL10      (ulong: 10)
     iserv_tm     DMUNS8       (ushort: 8)     <--- key
     num_on       DMUNS8       (ushort: 8)
     sct_count    DMUNS8       (ushort: 8)
     oaff1        DMUNS8       (ushort: 8)
     mxpcntsup    DMUNS7       (ushort: 7)
     dest_name    DMCTXT4      (array [ 4 ] of char )
     sctmsk1      DMHEX32      (ulong)
     sctmsk2      DMHEX32      (ulong)
     sctmsk3      DMHEX32      (ulong)
     sctmsk4      DMHEX32      (ulong)
     oaff3        DMULONG      (ulong)
         User, Compacted and Stored Tuple Layout   IST_PARM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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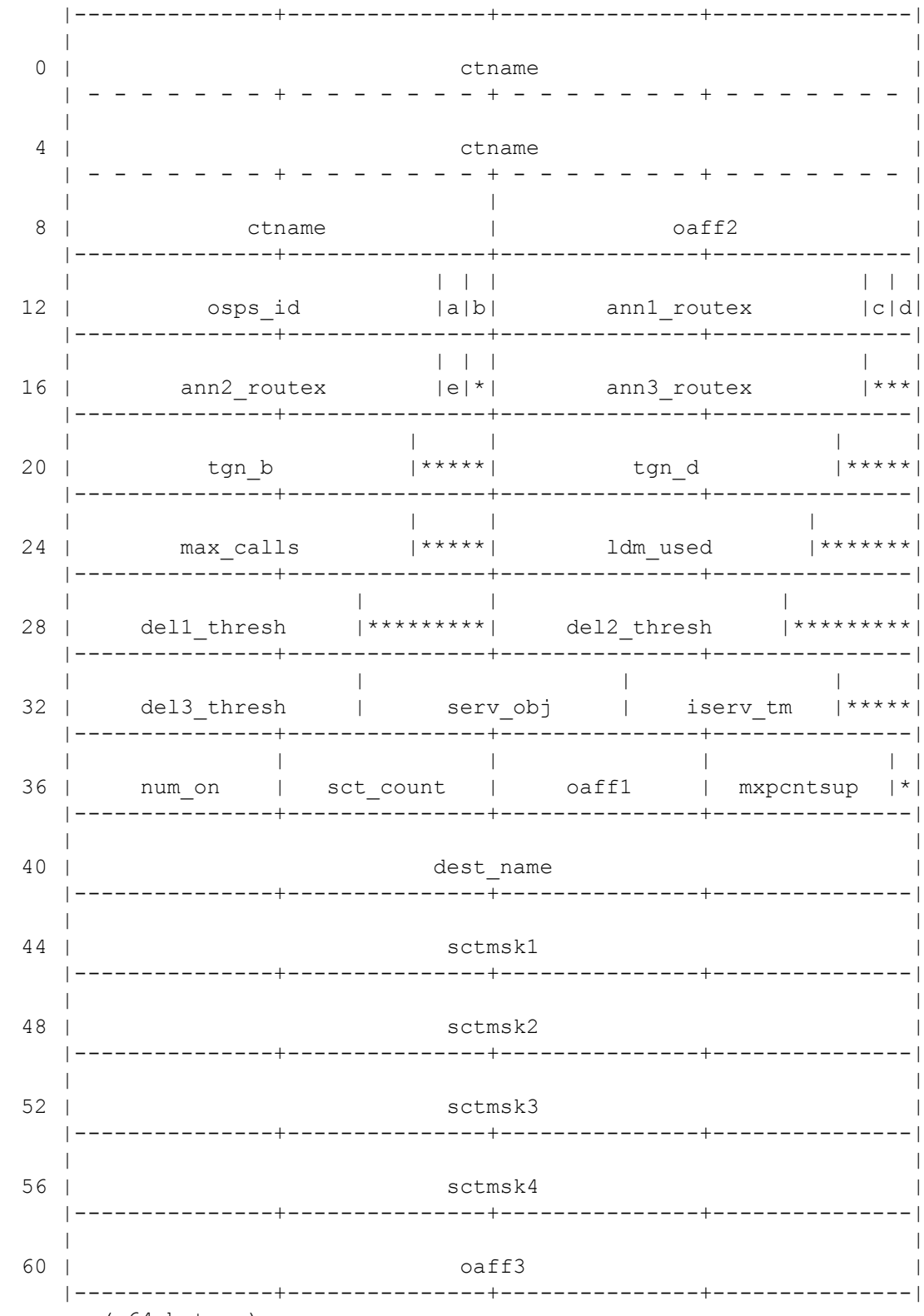


( 64 bytes )

## 4. Population Rules for RList_parm

### Relation Description

Interflow serving team parameters

Interflow serving team information for OSPS. This relation will be used to define an interflow serving team, identify the destination OSPS id and the unique trunk group numbers assigned for B and D EDSL channels. A trigger function ACtiservtm will be called for insert, update or delete of tuples in RList_parm. The dynamic relation RLhcservtm is modified accordingly.

**Attribute: iserv_tm**

**Fullname:** Interflow serving team number

**Attribute Description** Indicates the OSPS interflow serving team number.

**Attribute: osps_id**

**Fullname:** OSPS id number

**Attribute Description** Indicates the unique id of the destination OSPS switch.

**Attribute: dest_name**

**Fullname:** destination name OSPS

**Attribute Description** Indicates the unique name of the destination OSPS.

**Attribute: tgn_b**

**Fullname:** Trunk group number for B channels.

**Attribute Description** Indicates the trunk group number to a destination OSPS with class of service = OA_IFOPER and trunk direction = RTOUTGO.

**Attribute: tgn_d**

**Fullname:** Trunk group number for D channels.

**Attribute Description** Indicates the trunk group number to a destination OSPS with class of service = OA_IFOPER and trunk direction = RTISDNLK.

**Attribute: ldm_used**

**Fullname:** Last D-channel member used.

**Attribute Description** Last D-Channel trunk group member used to find a SM that the D-Channel trunk group resides on. Used by auto-reconfiguration in sending MGOAPDATA act/deac message to destination OSPS. ODA should set this attribute to zero (default). RC will populate this internally in the auto-reconfiguration mapping code. This attribute is populated only by auto-reconfiguration.

**Attribute: num_on**

**Fullname:** Number on.

**Attribute Description** Indicates the number of serving teams currently interflowed to the destination OSPS.

**Attribute: sctmsk1**

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**Fullname:** Supporting call type to serving team mask, part 1

**Attribute Description** Mask for supporting call types 1-32. Low order bit represents call type 1. Attributes sctmsk1 thru sctmsk4 is used by Intraflow. It indicates supporting call types for this serving team. A supporting call type is a call type that is handled by a supporting serving team. This bit field is used to indicate the supporting call queues this supporting serving team handles. For example, assume a tuple in RList_parm has an iserv_tm value of 129. If a tuple keyed by call type 1 in RLctinfo has supporting team 1 equal to 129 (sup_tm1=129 in RLctinfo) and a tuple keyed by call type 5 in RLctinfo has supporting team 1 equal to 129 (sup_tm1=129 in RLctinfo) bits 1 and 5 would be set in sctmsk1 indicating the secondary call types served by this supporting serving team.

```
(binary)sctmsk1=00000000000000000000000000010001
(hex)    sctmsk1=0x00000011
```

This bit field is maintained and updated internally and does not appear on any RC/ODA form.

**Attribute: sctmsk2**

**Fullname:** Supporting call type to serving team mask, part 2

**Attribute Description** Mask for supporting call types 33-64. Low order bit represents supporting call type 33.

**Attribute: sctmsk3**

**Fullname:** Supporting call type to serving team mask, part 3

**Attribute Description** Mask for supporting call types 65-96. Low order bit represents supporting call type 65.

**Attribute: sctmsk4**

**Fullname:** Supporting call type to serving team mask, part 4

**Attribute Description** Mask for supporting call types 97-128. Low order bit represents supporting call type 97.

**Attribute: sct_count**

**Fullname:** Supporting Call Type mask bit count

**Attribute Description** This is a count of how many bits are set to 1 in sctmsk1 through sctmsk4. Essentially this is the count of secondary call types. This is an internally maintained count of bits set and does not appear in any ODA forms.

**Attribute: intra_alwd**

**Fullname:** Intraflowed calls allowed

**Attribute Description** This attribute indicates whether the serving team is allowed to receive intraflowed calls. An ODA warning message should be displayed if the intra_alwd attribute is DBYES and the global parameter Glac_intra is set to DBNO.

**Attribute: mxpcntsup**

**Fullname:** Maximum Percent of serving team available for support call types

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**Attribute Description** Max % [0-100] of the serving team that is allowed to handle calls from supporting call queues Example: (assume no delay outflow threshold)

(1) team 3's team threshold is 50% (mxpcntsup=50), it has 4 agents(operators) logged in, 2 are busy with calls from supporting queues (2/4= 50% at the threshold),

(2) team 4's team threshold is 75% (mxpcntsup=75%), it has 10 agents(operators) logged in, 1 is busy with a call from a supporting queue (1/10= 10% under the threshold),

When a call arrives it's principal team has calls queued, it tries to go to team 3 but it would go over the 50 % threshold, so it tries team 4 and finds it can be intraflowed to this team and remain under the threshold of 75 % :

If mxpcntsup = 0 then RList_parm.intra_alwd must be DBNO. For a mxpcntsup > 0, RList_parm.intra_alwd could be DBNO or DBYES.

**Attribute: ctname**

**Fullname:** The name of the call type.

**Attribute Description** The alphanumeric characters ([0-9],[A-Z],[a-z]) and blanks are used. The character string in ctname should be left justified.

**Attribute: max_calls**

**Fullname:** Maximum number of calls allowed to queue on a call type queue

**Attribute Description** The max_calls field may range from 0 to the number of tuples allowed in RLcqdb.

**Attribute: del1_thresh**

**Fullname:** Spare - unused

**Attribute Description** Spare data for fast features

**Attribute: del2_thresh**

**Fullname:** Spare - unused

**Attribute Description** Spare data for fast features

**Attribute: del3_thresh**

**Fullname:** Spare - unused

**Attribute Description** Spare data for fast features

**Attribute: annc_on_lvl1**

**Fullname:** Announcement on level 1

**Attribute Description** Specifies whether an announcement on level 1 should be given when the caller is placed in the call queue. This announcement is used for initial operator requests, or on transfer to a serving team.

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**Attribute: ann1_routex**

**Fullname:** Route index for first delay announcement

**Attribute Description** Non-zero value must appear in RLrt_routing and must point to an announcement.

**Attribute: ann2_routex**

**Fullname:** Route index for second delay announcement

**Attribute Description** Non-zero value must appear in RLrt_routing and must point to an announcement.

**Attribute: ann3_routex**

**Fullname:** Route index for third delay announcement

**Attribute Description** Non-zero value must appear in RLrt_routing and must point to an announcement.

**Attribute: serv_obj**

**Fullname:** Spare - unused

**Attribute Description** Spare data for fast features.

**Attribute: oaff1**

**Fullname:** Oaff 1

**Attribute Description** Spare data for fast features.

**Attribute: oaff2**

**Fullname:** Oaff 2

**Attribute Description** Spare data for fast features.

**Attribute: oaff3**

**Fullname:** Oaff 3

**Attribute Description** Spare data for fast features.

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# ISTERM_R

## 1. Description

Digital Subscriber Line Terminal Feature Data. This is a root storage relation.

QUANTITY OF TUPLES:
One tuple for each digital subscriber line (RLfc_porttyp.servclass = FC_ISDN or FC_ISATND) that has flexible call offering (MCA).

The maximum tuples is the maximum number of digital subscriber lines. The expected tuple and density data was extracted from a study of field equipment.

(PSM) && AVSMDLINES > 8191)
syntax - The number of ISTERM needed has exceeded the maximum engineered

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8191 |
| expected number of tuples | 185 |
| density | 77 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTORAGE |
| ks key store | AUTO |

## 3. Field Layout

```
ISTERM_R    relid = 1654  DBSTORAGE  DBACC_CIND  DBPRAM    FP      NULL
 (a) termno      DMTERMNO     (uchar: 1)  <--- key, not stored
     lport       DMLPORT      (ushort: 16)  <--- key, not stored
     aterm       DMGK14       (ulong: 14)
 (b) auto_hold   DMBOOL       (enum: 1)
 (c) one_touch   DMBOOL       (enum: 1)
     huntca      DMCALLAP     (uchar: 8)
     ltport_cnt  DMUNS6       (ushort: 6)
         User and Compacted Tuple Layout   ISTERM_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | |                             |                               |
  0 |a|*****************************|             lport             |
    |---------------+---------------+---------------+---------------|
    |                             | | |               |           |   |
  4 |           aterm             |b|c|     huntca    | ltport_cnt|***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     aterm       DMGK14       (ulong: 14)
 (a) auto_hold   DMBOOL       (enum: 1)
 (b) one_touch   DMBOOL       (enum: 1)
     huntca      DMCALLAP     (uchar: 8)
     ltport_cnt  DMUNS6       (ushort: 6)
           Stored Tuple Layout     ISTERM_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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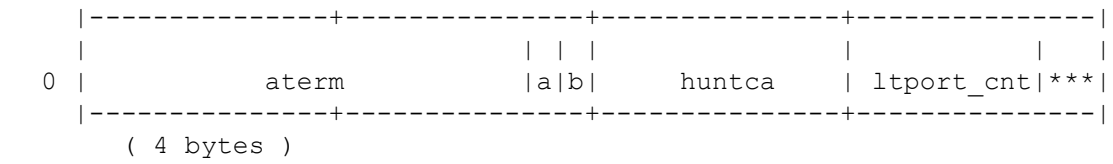


## 4. Population Rules for RListerm_r

There are no population rules for this relation.

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# ISTF

## 1. Description

This relation contains the application associated with each Integrated Services Test Function (ISTF) unit.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4 |
| expected number of tuples | 1 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | PCistftrg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
ISTF        relid = 795   DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL
     picb        DMPICB       (ushort)
     sm          DMMODULE     (ushort: 8)     <--- key
     lb_cnt      DMUNS5       (ushort: 5)
 (a) unit_no     DMUNS2       (ushort: 2)     <--- key
 (b) xmit_cnt    DMUNS2       (ushort: 2)
         User, Compacted and Stored Tuple Layout   ISTF
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |               |         |   | |
  0 |              picb              |       sm      |  lb_cnt | a |*|
    |---------------+---------------+---------------+---------------|
    |   |                                                           |
  4 | b |***********************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RListf

**Relation Description**
Integration service test function

Application associated with each integrated services test function unit. This relation specifies the application data for the integrated Services test Function (ISTF) unit. The ISTF is an Application of the Digital Service Circuit (DSC) on the TN833 circuit pack. The unit itself is a pumped 'smart' peripheral which performs digital tests on the data transferred by the peripheral interface data bus (PIDB) connected to it. The PIDB has 32 channels which can be tested. Currently the ISTF is providing two types of services, loopback and transmission test. It can perform 31 simultaneous loopback services, three simultaneous transmission test services, or any combination which does not exceed one test per channel. The one exception is that the ISTF board requires that each digital signal processor (DSP) on the ISTF must be guaranteed to have an unassigned channel for the internal routine exercise (ERREX) to use. Since the loopback DSP can test the maximum number of channels, the maximum had to be reduced to 31 (this guarantees at least one unassigned channel). Because there are more services than channels, Logical Test Ports (LTPs) which represent the services are used to connect to the actual channel RLCKTDATA tuples. Each service type has an LTP type and a trunk group associated with it. Since there are two LTP types

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(servclass=TM_ISTFLB, servclass=TM_ISTFXMIT), 2 trunk groups can handle all the ISTF LTPs in the office. The routing for these trunks groups is different however. The loopback test is actually a near end loopback being provided by the ISTF. The digital circuit (usually a digital trunk) requiring the loopback makes its requests via dialed digits. The digits are used to get a route index and test code through the RLRTDN_TRAN and RLRT_SPECRI relations. The tstcode attribute will identify the type of loopback needed (inverted or non-inverted). The transmission test is requested either via a user command (Master Control Center [MCC] or trunk and Line Work Station [TLWS]) or via Automatic Progression Tests (APTs). Both these requests use fixed routing via the ritype TMXMITRIISTF in the relation RLRT_FIXEDRI. After retrieving the route index, all the ISTF services use the same mechanism for routing. Since each trunk group has its own Route Index (RI) and there are only two ISTF trunk groups containing all the members, the members are assigned by hunting First In/First Out (FIFO) as indicated in RLRT_TRKG. While both services are not required at the same time, at least one should be defined for the ISTF to be used.

QUANTITY OF TUPLES:
One tuple per ISTF common board

DEPENDENCIES:

```
RLcktdata     - One tuple defining the common control for the ISTF.
RLcktdata     - 31 tuples defining the channels for the ISTF.
RLpicb        - One tuple whose key is Peripheral Interface
                Control Bus (PICB) attribute-1.
RLpidb        - One tuple whose key is PIDB (can be found in RLpicb).
RLrc_loceq    - One tuple keyed by Switching Module (SM) number and
                PICB (+1).
RLrc_eqloc    - One tuple whose keys are SM number, unit number,
                service group number, and unit type.
                number, Service Group number, and Unit type.
                RLunit_ckt - 1 tuple for each circuit ISTF unit.
```

**Attribute: sm**

**Fullname:** Switching module identifier

**Attribute Description** SM number which ISTF is located on (1-192).

**Attribute: unit_no**

**Fullname:** Application number

**Attribute Description** Number used by MCC to distinguish one ISTF unit from another within the same SM.

**Attribute: picb**

**Fullname:** Peripheral interface control bus

**Attribute Description** PICB of ISTF (+1).

**Attribute: lb_cnt**

**Fullname:** Number of loopback services

**Attribute Description** Number of loopback services allowed (0-31).

**Attribute: xmit_cnt**

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**Fullname:** Number of transmission services

**Attribute Description** Number of transmission test services (0-3).

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# ISTGIDX

## 1. Description

Gives information associated with a DTGS button for a particular attendant configuration group.

Maximum tuples derived by as follows:

```
 63        Maximum number of ISAT groups
x 4        Configurations allowed per ISAT (enforced by RLisatgrp)
x16        Trunk groups per ISAT
---
4032
```

The expected tuple data was extracted from a study of field equipment.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4032 |
| expected number of tuples | 3 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
ISTGIDX     relid = 1014  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     config      DMCONFIG     (ulong: 12)  <--- key
     tgidx       DMUNS4       (ushort: 4)  <--- key
     grpnum      DMGRUPNM     (ushort: 11)
 (a) pftype      DMPFTYPE     (enum: 1)
     mod         DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout    ISTGIDX
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                         |       |                       | |       |
  0 |          config         | tgidx |         grpnum        |a|*******|
    |---------------+---------------+---------------+---------------|
    |                |                                              |
  4 |      mod       |**********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RListgidx

**Relation Description**
Direct Trunk Group Selection index.

Gives information associated with a direct trunk group selection (DTGS) button for a particular attendant configuration group.

**Attribute: config**

**Fullname:** ISDN configuration group

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**Attribute Description** This number must be created and put in RLfacname.facid and RLfid2name.facid before being assigned to RLis_term.config. Unassigned configurations exist only in the AM.

**Attribute: tgidx**

**Fullname:** Direct trunk group selection (DTGS) button index

**Attribute Description** This index is assigned in RLisatlmt in attribute tgbitmap. See RLisatlmt.P (.p) for information on how the index is generated. Dependencies: The bit which corresponds to this index number in the tgbitmap field in RLisatlmt must be set to '1'.

**Attribute: mod**

**Fullname:** Module that owns this group

**Attribute Description** Not applicable

**Attribute: pftype**

**Fullname:** Facility type

**Attribute Description** Indicates if this facility is a simulated facility group (PFSFG) or a physical trunk group (PFPHYS).
Dependencies: This pftype is the same as in RLdtgstran.pftype with this config RLdtgstran.config = RListgidx.config

**Attribute: grpnum**

**Fullname:** Group number of the sfg or physical trunk

**Attribute Description** If pftype = PFSFG, verify existence of tuple in RLrt_sfg such that key rlRT_SFG.grpnum = rlISTGIDX.grpnum If pftype = PFPHYS, verify existence of tuple in RLrt_trkg such that key rlRT_TRKG.grpnum = rlISTGIDX.grpnum This grpnum is the same as in RLdtgstran.grpnum with this config
RLdtgstran.config = RListgidx.config

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# ISTM_G

## 1. Description

This relation contains the Digital Subscriber Line Terminal Feature Data. This is a child storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8191 |
| expected number of tuples | 100 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTORAGE |
| ks key store | DBNO |
| foldtype | DBGC31 |
| gkidxrel GK-index relation | rlISTM_I |
| spare bits | 32l |

## 3. Field Layout

```
ISTM_G      relid = 1655  DBSTORAGE  DBACC_GK    DBPRAM    FP      NULL
     gkISTM_G    DMGK14       (ulong: 14)     <--- key, not stored
     posnum      DMPNUM       (ushort: 14)
 (a) ekts        DMEKTS       (enum: 2)
     eponum      DMEPONUM     (ushort: 14)
 (b) privacy     DMPRIVACY    (enum: 2)
     config      DMCONFIG     (ulong: 12)
 (c) cpetype     DMCPETYP     (enum: 3)
 (d) display     DMBOOL       (enum: 1)
     acdgrp      DMACDGRP     (ushort: 10)
     latidx      DMLATIDX     (ushort: 5)
 (e) time_mode   DMBOOL       (enum: 1)
     ffcf7       DMUNS8       (ushort: 8)
 (f) pasc        DMPASC_TYP   (enum: 2)
 (g) cpepref     DMCPEPRF     (enum: 1)
 (h) cpn_scrn    DMBOOL       (enum: 1)
 (i) ffcf1       DMBOOL       (enum: 1)
 (j) ffcf2       DMBOOL       (enum: 1)
 (k) ffcf3       DMBOOL       (enum: 1)
 (l) ffcf4       DMBOOL       (enum: 1)
 (m) ffcf5       DMBOOL       (enum: 1)
 (n) ffcf6       DMBOOL       (enum: 1)
 (o) psap        DMBOOL       (enum: 1)
 (p) alt         DMBOOL       (enum: 1)
 (q) insp_ama    DMBOOL       (enum: 1)
 (r) tsmed       DMBOOL       (enum: 1)
 (s) tsming      DMBOOL       (enum: 1)
        User and Compacted Tuple Layout     ISTM_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 0 |*********************************|          gkISTM_G             |
   |---------------+---------------+---------------+---------------|
   |                           |   |                           |   |
```

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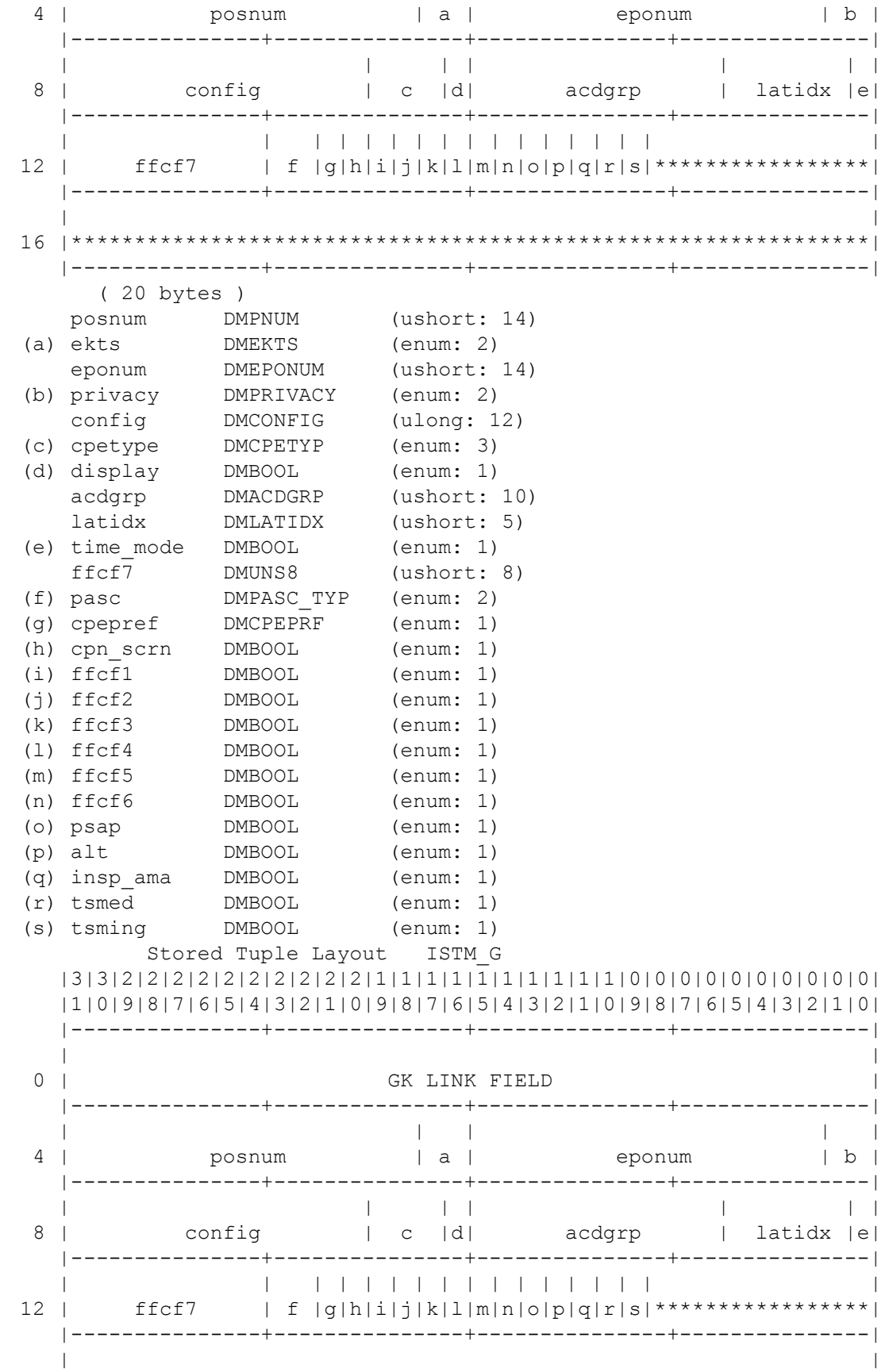
4 | posnum | a | eponum | b |
8 | config | c |d| acdgrp | latidx |e|
12 | ffcf7 | f |g|h|i|j|k|l|m|n|o|p|q|r|s|
16 |
( 20 bytes )
posnum DMPNUM (ushort: 14)
(a) ekts DMEKTS (enum: 2)
eponum DMEPONUM (ushort: 14)
(b) privacy DMPRIVACY (enum: 2)
config DMCONFIG (ulong: 12)
(c) cpetype DMCPETYP (enum: 3)
(d) display DMBOOL (enum: 1)
acdgrp DMACDGRP (ushort: 10)
latidx DMLATIDX (ushort: 5)
(e) time_mode DMBOOL (enum: 1)
ffcf7 DMUNS8 (ushort: 8)
(f) pasc DMPASC_TYP (enum: 2)
(g) cpepref DMCPEPRF (enum: 1)
(h) cpn_scrn DMBOOL (enum: 1)
(i) ffcf1 DMBOOL (enum: 1)
(j) ffcf2 DMBOOL (enum: 1)
(k) ffcf3 DMBOOL (enum: 1)
(l) ffcf4 DMBOOL (enum: 1)
(m) ffcf5 DMBOOL (enum: 1)
(n) ffcf6 DMBOOL (enum: 1)
(o) psap DMBOOL (enum: 1)
(p) alt DMBOOL (enum: 1)
(q) insp_ama DMBOOL (enum: 1)
(r) tsmed DMBOOL (enum: 1)
(s) tsming DMBOOL (enum: 1)
Stored Tuple Layout ISTM_G
3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
0 | GK LINK FIELD
4 | posnum | a | eponum | b |
8 | config | c |d| acdgrp | latidx |e|
12 | ffcf7 | f |g|h|i|j|k|l|m|n|o|p|q|r|s|

```
 12 |***************************************************************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population Rules for RListm_g

There are no population rules for this relation.

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# ISTMBLST

## 1. Description

Multiline hunt group terminal make busy list for ISDN voice groups.

Maximum tuples derived from the maximum number of multi-line hunt groups (MLHG) (2000). The expected tuple and density data was extracted from a study of field equipment.

```
(AVMLHGRPS > 2000)
syntax - The number of ISTMBLST needed has exceeded the maximum engineered
```

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected number of tuples | 9 |
| density | 31 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |
| trigger function | RTistmtrg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
ISTMBLST    relid = 904   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    GCRTG
     grpnum      DMGRUPNM     (ushort: 11)  <--- key
     subgrp      DMUNS8       (ushort: 8)  <--- key
     length      DMSHORT      (short)
 (a) bsytrt      DMBSYTRT     (enum: 2)
     mbr1        DMUNS16      (ushort)
     mbr2        DMUNS16      (ushort)
     mbr3        DMUNS16      (ushort)
     mbr4        DMUNS16      (ushort)
     mbr5        DMUNS16      (ushort)
     mbr6        DMUNS16      (ushort)
     mbr7        DMUNS16      (ushort)
     mbr8        DMUNS16      (ushort)
     mbr9        DMUNS16      (ushort)
     mbr10       DMUNS16      (ushort)
     mbr11       DMUNS16      (ushort)
     mbr12       DMUNS16      (ushort)
     mbr13       DMUNS16      (ushort)
     mbr14       DMUNS16      (ushort)
     mbr15       DMUNS16      (ushort)
     mbr16       DMUNS16      (ushort)
     mbr17       DMUNS16      (ushort)
     mbr18       DMUNS16      (ushort)
     mbr19       DMUNS16      (ushort)
     mbr20       DMUNS16      (ushort)
     mbr21       DMUNS16      (ushort)
     mbr22       DMUNS16      (ushort)
```

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```
    mbr23       DMUNS16      (ushort)
    mbr24       DMUNS16      (ushort)
    mbr25       DMUNS16      (ushort)
    mbr26       DMUNS16      (ushort)
    mbr27       DMUNS16      (ushort)
    mbr28       DMUNS16      (ushort)
    mbr29       DMUNS16      (ushort)
    mbr30       DMUNS16      (ushort)
    mbr31       DMUNS16      (ushort)
    mbr32       DMUNS16      (ushort)
    modmap0     DMGPDMAP     (long)
    modmap1     DMGPDMAP     (long)
    modmap2     DMGPDMAP     (long)
    modmap3     DMGPDMAP     (long)
    modmap4     DMGPDMAP     (long)
    modmap5     DMGPDMAP     (long)
        User, Compacted and Stored Tuple Layout   ISTMBLST
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                       |         |                 |               |
 0 |         grpnum        |*********|     subgrp      |***************|
   |---------------+---------------+---------------+---------------|
   |                               |   |                             |
 4 |              length           | a |*****************************|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |               mbr1            |               mbr2            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |               mbr3            |               mbr4            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |               mbr5            |               mbr6            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |               mbr7            |               mbr8            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
24 |               mbr9            |              mbr10            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
28 |              mbr11            |              mbr12            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
32 |              mbr13            |              mbr14            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
36 |              mbr15            |              mbr16            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
40 |              mbr17            |              mbr18            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
```

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```
 44 |              mbr19              |              mbr20              |
    |---------------+---------------+---------------+---------------|
    |                                 |                                 |
 48 |              mbr21              |              mbr22              |
    |---------------+---------------+---------------+---------------|
    |                                 |                                 |
 52 |              mbr23              |              mbr24              |
    |---------------+---------------+---------------+---------------|
    |                                 |                                 |
 56 |              mbr25              |              mbr26              |
    |---------------+---------------+---------------+---------------|
    |                                 |                                 |
 60 |              mbr27              |              mbr28              |
    |---------------+---------------+---------------+---------------|
    |                                 |                                 |
 64 |              mbr29              |              mbr30              |
    |---------------+---------------+---------------+---------------|
    |                                 |                                 |
 68 |              mbr31              |              mbr32              |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
 72 |                             modmap0                               |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
 76 |                             modmap1                               |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
 80 |                             modmap2                               |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
 84 |                             modmap3                               |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
 88 |                             modmap4                               |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
 92 |                             modmap5                               |
    |---------------+---------------+---------------+---------------|
       ( 96 bytes )
domain alISTMBLST   struct  (11 sub-attributes)
         grpnum      .2.fake      (ushort: 11)
         subgrp      .3.fake      (ushort)
         length      short        (short)
 (a)     bsytrt      .0fake       (enum)
         mbr_list    .4.fake      (array [ 32 ] of unsigned short )
         modmap0     long         (long)
         modmap1     long         (long)
         modmap2     long         (long)
         modmap3     long         (long)
         modmap4     long         (long)
         modmap5     long         (long)
         Structure Layout      alISTMBLST
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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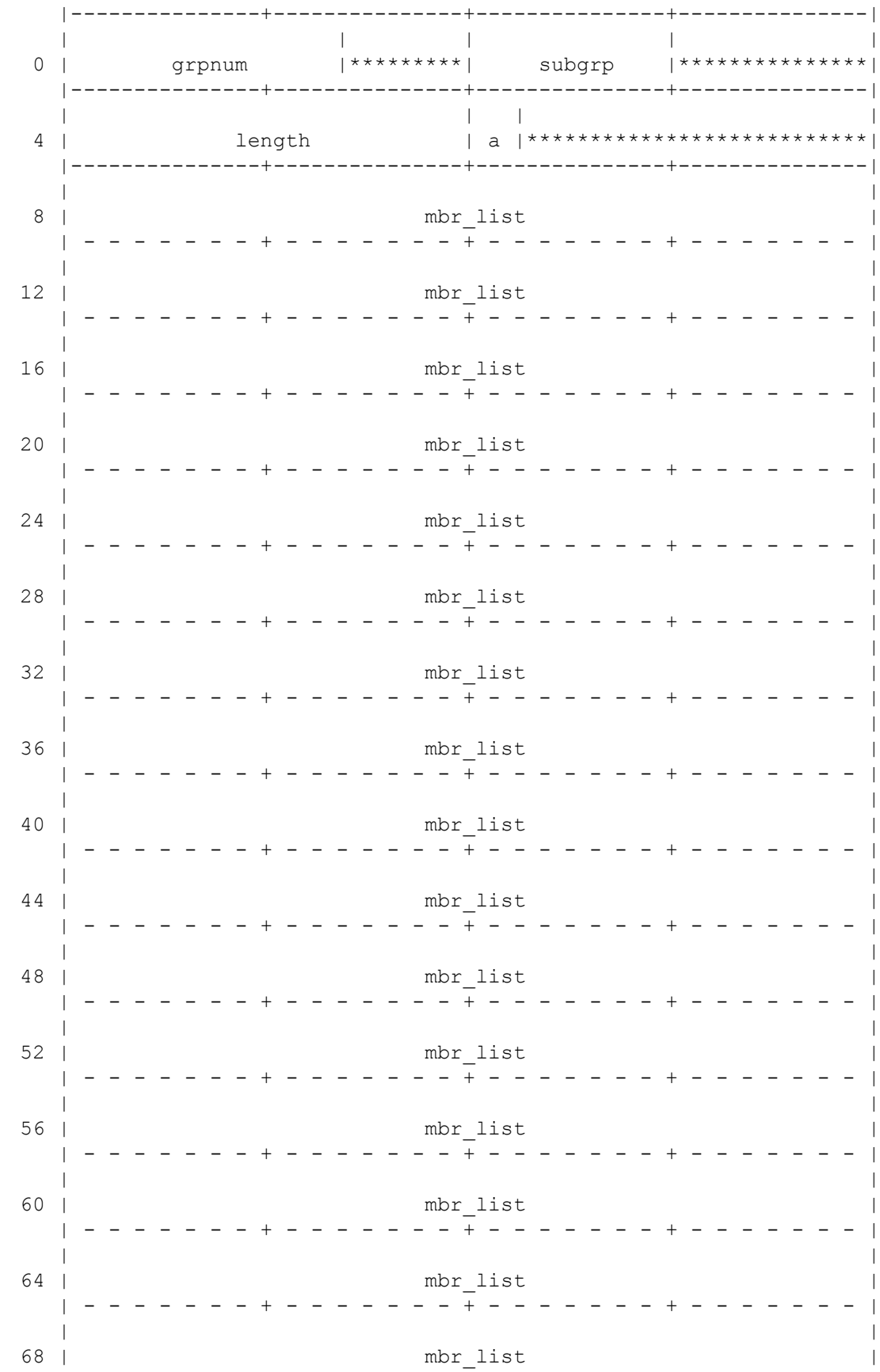


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## 4. Population Rules for RListmblst

**Relation Description**
Multiline hunt group terminal make busy list for integrated services digital network (ISDN) voice groups.

The distribution type for this relation is GRP_PART. Processors where tuples should be located are listed in attributes RListmblst.modmap1 through RListmblst.modmap5 in addition to the Hunting SM of the group. This relation only applies to MLHG's that contain (non-ISAT) ISDN terminals. It is used to specify the MLHG members that are to be associated with a subgrp number for purposes of actions taken when a member make busy key is depressed. RLbikypm provides the mapping from grpnum, member to subgrp number. This concept of subgrp, similar to the analog definition of subgrp used in RLtmblst, is different from the concept of subgrp used for ISAT multi-line hunt groups. Analog subgrps were implicitly defined by using the same scan pt definition for several analog multi-line hunt group members. For ISDN Multiline hunt group members, a different approach to subgrp definitions is used. ISDN Multiline hunt group members don't have scan points. When a member make busy hunt key is depressed on an ISDN terminal, then all members of the subgrp will be busied out. Any of the members of the subgrp that have member make busy hunt keys can take this action. A particular tuple must be replicated to the Hunting SM of the group found by using RLhuntkeys.portgrp.grpnum to read RLrt_mhg where RLrt_mhg.module is the module designated as HUNTING MODULE, and as many SM's as contain 1 or more subgrp members. The members numbers, along with their SM representations, are shown in the attributes of this relation. All member numbers in this subgrp must be (non-ISAT) ISDN terminals even though the subgrp may be a part of a larger multi-line hunt group that contains analog members.

**Attribute: grpnum**

**Fullname:** Hunt Group Number

**Attribute Description** Dependencies: must exist as a key to rt_mhg

**Attribute: subgrp**

**Fullname:** Member make busy subgroup number

**Attribute Description** This relation only applies to ISDN (nonISAT) hunt groups
RLrt_mhg.isat_idx = 0

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and at least one member of the MLHG has a tuple in RLis_line. It should not be populated for groups where RLrt_mhg.isat_idx != 0
Dependencies: This subgrp must be nonzero in RLbikypm.

**Attribute: length**

**Fullname:** Number of nonzero entries in 'mbr_list'

**Attribute Description** Dependencies: Must agree with mbr1-32 field

**Attribute: bsytrt**

**Fullname:** Busy Treatment

**Attribute Description** Indicateds the type of busy treatment associated with this set of members.

**Attribute: mbr[*]**

**Fullname:** Multiline hunt group member number

**Attribute Description** This is one of up to 32 multi-line hunt group member numbers that should be made busy when a particular member make-busy key is depressed. A value of 0 means that the array element does not contain a member number. Thus, there can be no holes--every array element after the first zero array element must also be 0.

```
Each member shown must be an ISDN terminal. To check this,
read:  RLgroup_port.portgrp = RListmblist.grpnum
       RLgroup_port.member = mbr[i]
       RLgroup_port.type = TM_LINE
       RLgroup_port.lpt_type = LPT_ISDN
```

There must be a nonzero value for RLgroup_port.lport and the lport must correspond to a tuple in RLis_line keyed by RLgroup_port.ltm_idx. Dependencies: See dependency for subgrp.

**Attribute: modmap[*]**

**Fullname:** Bit maps of processors on which the listed members reside.

**Attribute Description** This is one of 6 attributes, which each contains 32 bits, for a total of 192 bits (1 bit for each SM). A 1 bit means that at least 1 hunt group member, which pertains to this member make-busy key, resides on that SM and the software must send a message to that SM when certain events occur.

```
modmap0 SM1   - SM32
modmap1 SM33  - SM64
modmap2 SM65  - SM96
modmap3 SM97  - SM128
modmap4 SM129 - SM160
modmap5 SM161 - SM192
```

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# ITNALNEX

## 1. Description

ITNA lnoc to determine the line number of the calling number. The Exception Table shall relate calling line number to time set ID.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 5000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| foldtype | DBGC31 |

## 3. Field Layout

```
ITNALNEX    relid = 1275  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     lnoc        DMLNOC       (ushort: 14)  <--- key
     lineno      DMUNL14      (ulong: 14)  <--- key
 (a) intl        DMBOOL       (enum: 1)  <--- key
     set_id      DMSET_ID     (enum: 5)
         User, Compacted and Stored Tuple Layout   ITNALNEX
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                             |                             | |     |
  0 |             lnoc            |           lineno            |a|*****|
    |---------------+---------------+---------------+---------------|
    |         |                                                     |
  4 |  set_id |*****************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLitnalnex

**Relation Description**
Improved third number acceptance (ITNA) exception table relation for a single line number.

This relation is used by improved third number acceptance (ITNA) OSPS call processing code to determine if a single line number exists in the table with a corresponding time set ID. The keys to the relation are lnoc and lineno. The lnoc (large normalized office code) is a compressed version of the NPA-NXX. The lineno key consists of the line number of the calling party. Thus, the lnoc and lineno keys represent the NPA-NXX-XXXX of the calling party. The non-key attribute to this relation is the set_id. The set_id corresponds to an enumeration with values of OA_ALWAYS or OA_TS_1 through OA_TS_8. If the value is OA_ALWAYS, then call processing is required to automatically outpulse to the third party for verbal bill acceptance verification. If the set_id value is of the normal type (OA_TS_1 through OA_TS_8), then the call processing code will perform a database read of the RLtime_set relation to determine the begin and end times associated with the time set ID. The begin and end times correspond to a time of day range when it is acceptable to perform automatic outpulsing to the third party for verbal bill acceptance verification. This relation is read by the ITNA call processing only when the time set ID found in RLitnatgn (relation for single trunk group numbers) or RLitnatrng (relation for ranges of trunk group numbers) is OA_NEVER or when the time of day associated with a time set ID does not fall within the bounds of the time range. The RLitnalnex relation is used as an exception to the information populated in the RLitnatgn and RLitnatrng relation to isolate special cases for individual line numbers.

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**Attribute: lnoc**

**Fullname:** Improved 3rd Number Acceptance large normalized office code

**Attribute Description** Used as a key for determining if a time set ID (set_id) exists for the calling parties line number. The lnoc is a compressed version of the NPA-NXX and is obtained from the FCNPAMAP relation.

**Attribute: lineno**

**Fullname:** Improved 3rd Number Acceptance line number of the back party from 0000-9999.

**Attribute Description** Used as a key along with lnoc to determine the ITNA time set ID from the Exception Table.

**Attribute: intl**

**Fullname:** Improved 3rd Number Acceptance International destination indicator

**Attribute Description** Used as a key along with lnoc and lineno to determine the ITNA time set ID from the Exception Table for calls terminating to international destinations. This key is always DBNO at this time.

**Attribute: set_id**

**Fullname:** Improved 3rd Number Acceptance time set ID number

**Attribute Description** The set_id non-key attribute is used to provide information as to when third number verbal billing acceptance verification is required. If the value of set_id is OA_ALWAYS, then third number acceptance verification must always be performed. If the set_id is a normal time set ID (OA_TS_1 through OA_TS_8), then call processing must perform a database read of the RLtime_set relation to determine the time of day range when automatic outpulsing to the third party is acceptable.

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# ITNALRNG

## 1. Description

ITNA lnoc (NPA-NXX translation) and tuple number to determine the time_set_id from the exception table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 500 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| ks store key option | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
ITNALRNG    relid = 1276  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     lnoc        DMLNOC       (ushort: 14)  <--- key, not stored
     tupnum      DMUNS4       (ushort: 4)  <--- key, not stored
 (a) intl        DMBOOL       (enum: 1)  <--- key, not stored
     entries     DMUNS4       (ushort: 4)
     range00     DMLRANGE     (struct)
         begline     DMUNL14      (ulong: 14)
         endline     DMUNL14      (ulong: 14)
         set_id      DMSET_ID     (enum: 5)
     range01     DMLRANGE     (struct)
         begline     DMUNL14      (ulong: 14)
         endline     DMUNL14      (ulong: 14)
         set_id      DMSET_ID     (enum: 5)
     range02     DMLRANGE     (struct)
         begline     DMUNL14      (ulong: 14)
         endline     DMUNL14      (ulong: 14)
         set_id      DMSET_ID     (enum: 5)
     range03     DMLRANGE     (struct)
         begline     DMUNL14      (ulong: 14)
         endline     DMUNL14      (ulong: 14)
         set_id      DMSET_ID     (enum: 5)
     range04     DMLRANGE     (struct)
         begline     DMUNL14      (ulong: 14)
         endline     DMUNL14      (ulong: 14)
         set_id      DMSET_ID     (enum: 5)
     range05     DMLRANGE     (struct)
         begline     DMUNL14      (ulong: 14)
         endline     DMUNL14      (ulong: 14)
         set_id      DMSET_ID     (enum: 5)
     range06     DMLRANGE     (struct)
         begline     DMUNL14      (ulong: 14)
         endline     DMUNL14      (ulong: 14)
         set_id      DMSET_ID     (enum: 5)
     range07     DMLRANGE     (struct)
         begline     DMUNL14      (ulong: 14)
         endline     DMUNL14      (ulong: 14)
         set_id      DMSET_ID     (enum: 5)
```

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```
    range08     DMLRANGE     (struct)
        begline     DMUNL14      (ulong: 14)
        endline     DMUNL14      (ulong: 14)
        set_id      DMSET_ID     (enum: 5)
    range09     DMLRANGE     (struct)
        begline     DMUNL14      (ulong: 14)
        endline     DMUNL14      (ulong: 14)
        set_id      DMSET_ID     (enum: 5)
    range10     DMLRANGE     (struct)
        begline     DMUNL14      (ulong: 14)
        endline     DMUNL14      (ulong: 14)
        set_id      DMSET_ID     (enum: 5)
    range11     DMLRANGE     (struct)
        begline     DMUNL14      (ulong: 14)
        endline     DMUNL14      (ulong: 14)
        set_id      DMSET_ID     (enum: 5)
    range12     DMLRANGE     (struct)
        begline     DMUNL14      (ulong: 14)
        endline     DMUNL14      (ulong: 14)
        set_id      DMSET_ID     (enum: 5)
    range13     DMLRANGE     (struct)
        begline     DMUNL14      (ulong: 14)
        endline     DMUNL14      (ulong: 14)
        set_id      DMSET_ID     (enum: 5)
    range14     DMLRANGE     (struct)
        begline     DMUNL14      (ulong: 14)
        endline     DMUNL14      (ulong: 14)
        set_id      DMSET_ID     (enum: 5)
        User and Compacted Tuple Layout   ITNALRNG
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                           |   |       | |                     |
 0 |            lnoc           |***| tupnum|a|*********************|
   |---------------+---------------+---------------+---------------|
   |       |                                                       |
 4 |entries|*******************************************************|
   |===============+=========== range00 ===========+===============|
   |                           |                           |       |
 8 |          begline          |          endline          |*******|
   |---------------+---------------+---------------+---------------|
   |         |                                                     |
12 |  set_id |*****************************************************|
   |===============+=========== range01 ===========+===============|
   |                           |                           |       |
16 |          begline          |          endline          |*******|
   |---------------+---------------+---------------+---------------|
   |         |                                                     |
20 |  set_id |*****************************************************|
   |===============+=========== range02 ===========+===============|
   |                           |                           |       |
24 |          begline          |          endline          |*******|
   |---------------+---------------+---------------+---------------|
   |         |                                                     |
```

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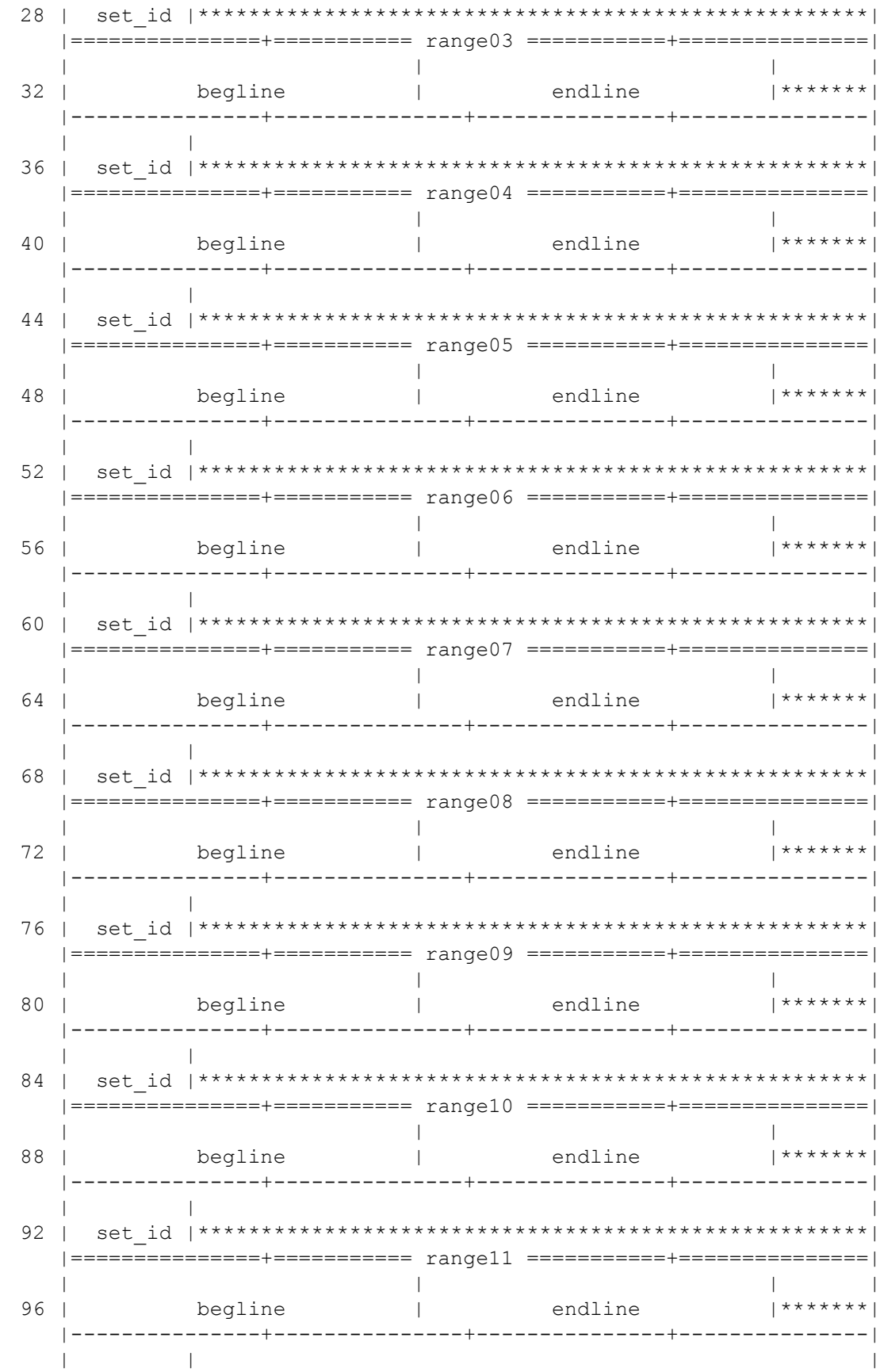


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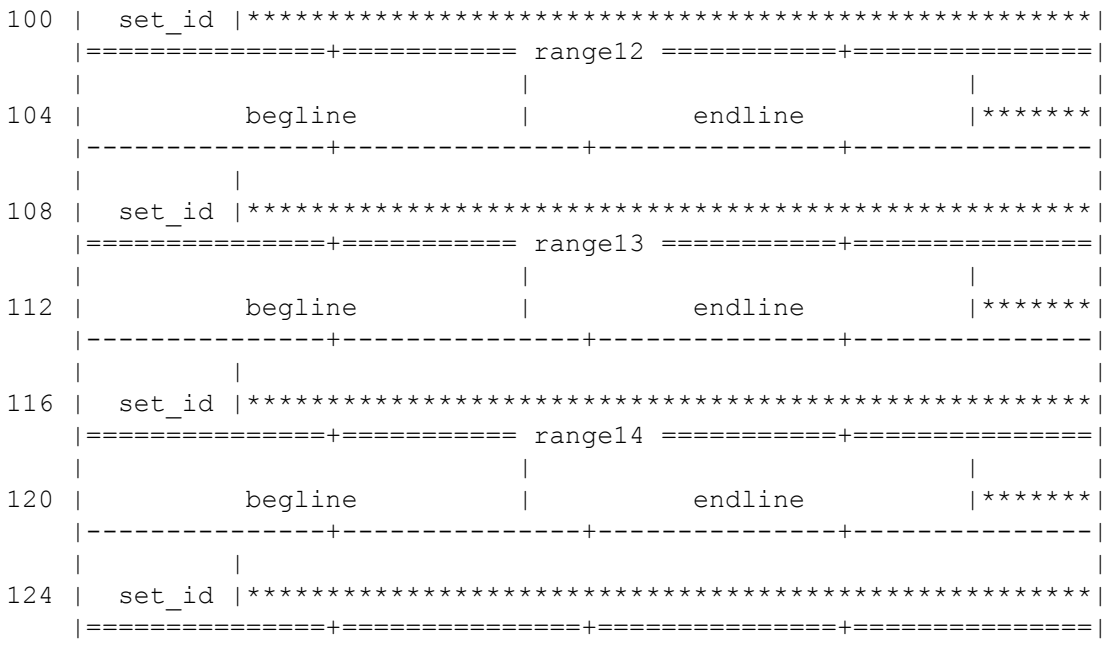


```
  ( 128 bytes )
entries     DMUNS4       (ushort: 4)
range00     DMLRANGE     (struct)
    begline     DMUNL14      (ulong: 14)
    endline     DMUNL14      (ulong: 14)
    set_id      DMSET_ID     (enum: 5)
range01     DMLRANGE     (struct)
    begline     DMUNL14      (ulong: 14)
    endline     DMUNL14      (ulong: 14)
    set_id      DMSET_ID     (enum: 5)
range02     DMLRANGE     (struct)
    begline     DMUNL14      (ulong: 14)
    endline     DMUNL14      (ulong: 14)
    set_id      DMSET_ID     (enum: 5)
range03     DMLRANGE     (struct)
    begline     DMUNL14      (ulong: 14)
    endline     DMUNL14      (ulong: 14)
    set_id      DMSET_ID     (enum: 5)
range04     DMLRANGE     (struct)
    begline     DMUNL14      (ulong: 14)
    endline     DMUNL14      (ulong: 14)
    set_id      DMSET_ID     (enum: 5)
range05     DMLRANGE     (struct)
    begline     DMUNL14      (ulong: 14)
    endline     DMUNL14      (ulong: 14)
    set_id      DMSET_ID     (enum: 5)
range06     DMLRANGE     (struct)
    begline     DMUNL14      (ulong: 14)
    endline     DMUNL14      (ulong: 14)
    set_id      DMSET_ID     (enum: 5)
range07     DMLRANGE     (struct)
    begline     DMUNL14      (ulong: 14)
    endline     DMUNL14      (ulong: 14)
    set_id      DMSET_ID     (enum: 5)
```

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```
    range08     DMLRANGE     (struct)
        begline     DMUNL14      (ulong: 14)
        endline     DMUNL14      (ulong: 14)
        set_id      DMSET_ID     (enum: 5)
    range09     DMLRANGE     (struct)
        begline     DMUNL14      (ulong: 14)
        endline     DMUNL14      (ulong: 14)
        set_id      DMSET_ID     (enum: 5)
    range10     DMLRANGE     (struct)
        begline     DMUNL14      (ulong: 14)
        endline     DMUNL14      (ulong: 14)
        set_id      DMSET_ID     (enum: 5)
    range11     DMLRANGE     (struct)
        begline     DMUNL14      (ulong: 14)
        endline     DMUNL14      (ulong: 14)
        set_id      DMSET_ID     (enum: 5)
    range12     DMLRANGE     (struct)
        begline     DMUNL14      (ulong: 14)
        endline     DMUNL14      (ulong: 14)
        set_id      DMSET_ID     (enum: 5)
    range13     DMLRANGE     (struct)
        begline     DMUNL14      (ulong: 14)
        endline     DMUNL14      (ulong: 14)
        set_id      DMSET_ID     (enum: 5)
    range14     DMLRANGE     (struct)
        begline     DMUNL14      (ulong: 14)
        endline     DMUNL14      (ulong: 14)
        set_id      DMSET_ID     (enum: 5)
      Stored Tuple Layout     ITNALRNG
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |       |                                                       |
 0 |entries|*******************************************************|
   |===============+=========== range00 ===========+===============|
   |                           |                           |       |
 4 |          begline          |          endline          |*******|
   |---------------+---------------+---------------+---------------|
   |         |                                                     |
 8 |  set_id |*******************************************************|
   |===============+=========== range01 ===========+===============|
   |                           |                           |       |
12 |          begline          |          endline          |*******|
   |---------------+---------------+---------------+---------------|
   |         |                                                     |
16 |  set_id |*******************************************************|
   |===============+=========== range02 ===========+===============|
   |                           |                           |       |
20 |          begline          |          endline          |*******|
   |---------------+---------------+---------------+---------------|
   |         |                                                     |
24 |  set_id |*******************************************************|
   |===============+=========== range03 ===========+===============|
   |                           |                           |       |
```

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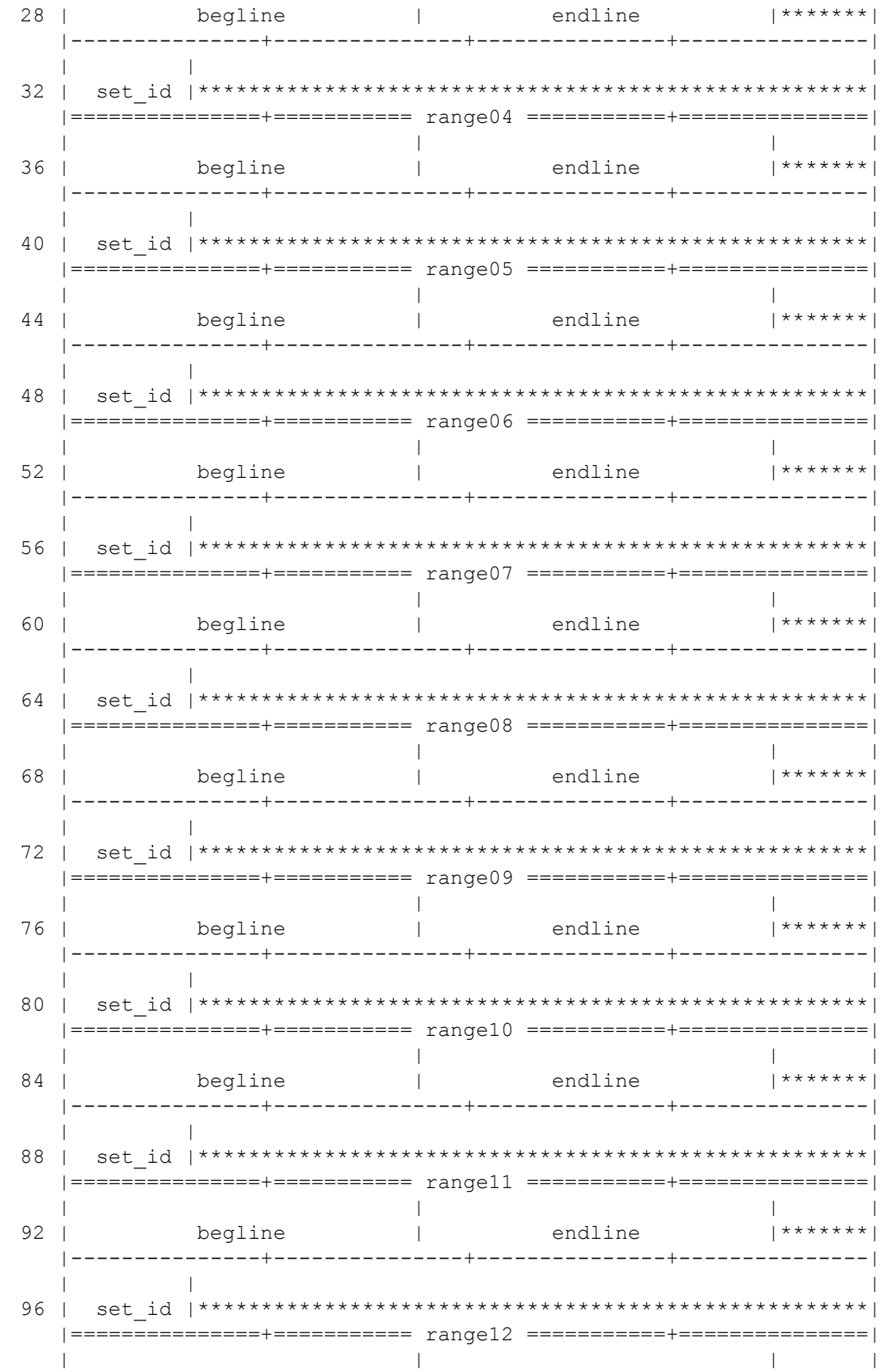
begline
endline
set_id
range04
range05
range06
range07
range08
range09
range10
range11
range12

```
100 |          begline          |          endline          |*******|
    |---------------+---------------+---------------+---------------|
    |         |                                                     |
104 |  set_id |*****************************************************|
    |===============+========== range13 ==========+===============|
    |                           |                           |       |
108 |          begline          |          endline          |*******|
    |---------------+---------------+---------------+---------------|
    |         |                                                     |
112 |  set_id |*****************************************************|
    |===============+========== range14 ==========+===============|
    |                           |                           |       |
116 |          begline          |          endline          |*******|
    |---------------+---------------+---------------+---------------|
    |         |                                                     |
120 |  set_id |*****************************************************|
    |===============+===============+===============+===============|
       ( 124 bytes )
domain alITNALRNG   struct  (5 sub-attributes)
         lnoc        .5.fake      (ushort: 14)
         tupnum      .6.fake      (ushort: 4)
 (a)     intl        .0fake       (enum)
         entries     .7.fake      (ushort: 4)
         rangexx     .8.fake      (array [ 15 ] of .2fake )
             begline     .0.fake      (ulong: 14)
             endline     .1.fake      (ulong: 14)
             set_id      .1fake       (enum)
         Structure Layout      alITNALRNG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           |   |       | |                     |
  0 |             lnoc          |***| tupnum|a|*********************|
    |---------------+---------------+---------------+---------------|
    |       |                                                       |
  4 |entries|*******************************************************|
    |===============+=========  rangexx[0] =========+===============|
    |                           |                           |       |
  8 |          begline          |          endline          |*******|
    |---------------+---------------+---------------+---------------|
    |         |                                                     |
 12 |  set_id |*****************************************************|
    |===============+=========  rangexx[1] =========+===============|
    |                           |                           |       |
 16 |          begline          |          endline          |*******|
    |---------------+---------------+---------------+---------------|
    |         |                                                     |
 20 |  set_id |*****************************************************|
    |===============+=========  rangexx[2] =========+===============|
    |                           |                           |       |
 24 |          begline          |          endline          |*******|
    |---------------+---------------+---------------+---------------|
    |         |                                                     |
 28 |  set_id |*****************************************************|
```

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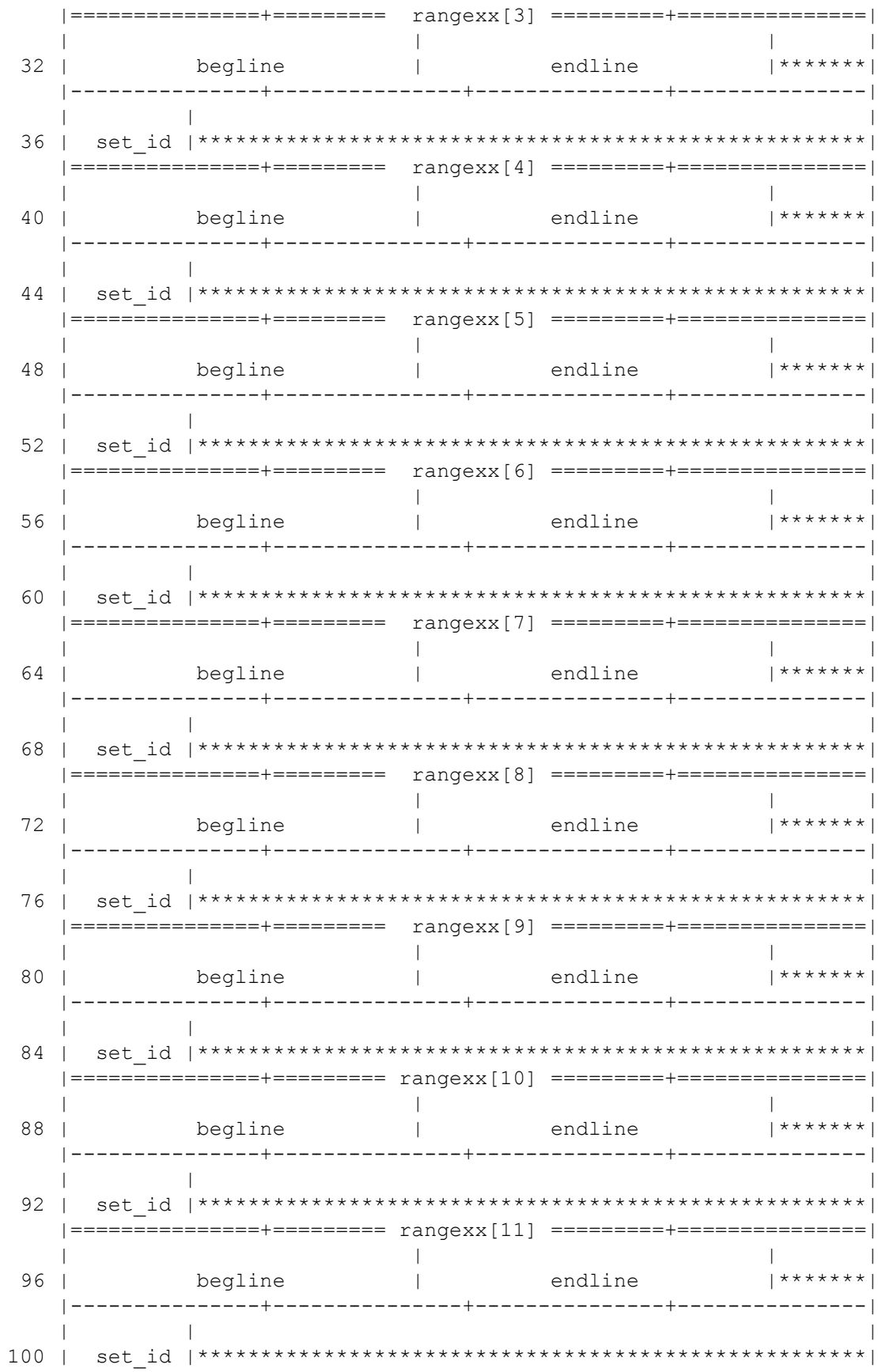


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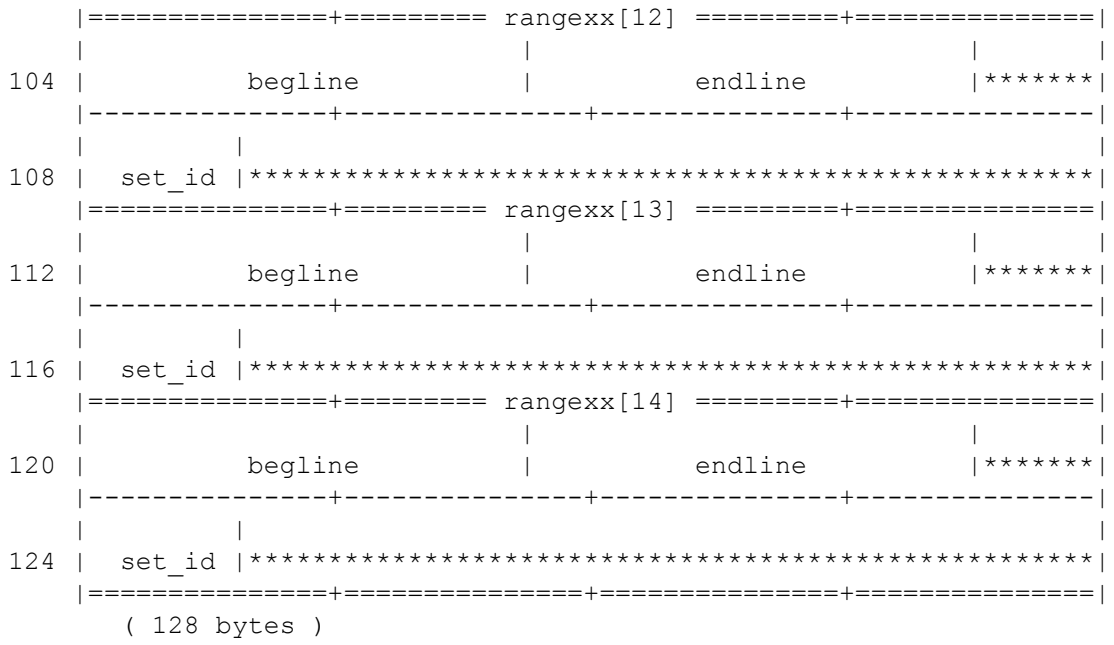


## 4. Population Rules for RLitnalrng

**Relation Description**
Improved third number acceptance (ITNA) exception table relation for a range of line numbers.

This relation is used by OSPS call processing code to determine if a range of line numbers exist in the table with corresponding time set id. The keys to the relation are lnoc and tupnum. The lnoc (large normalized office code) is a compressed version of the NPA-NXX. The tupnum key consists of the tuple number for a line range. For each lnoc, a maximum of 9 tuples can be populated. Each tuple can have a maximum of 15 line ranges with an associated set_id populated. The non-key attributes to this relation are entries and range00 thru range 14. Entries contains a count of the number of line ranges that are currently populated for a given tuple. rangexx (where xx is 00 - 14) is a structure containing a begline and endline number with an associated time set ID (set_id). The set_id corresponds to an enumeration with values of OA_ALWAYS or OA_TS_1 thru OA_TS_8. If the value is OA_ALWAYS, then call processing is required to automatically outpulse to the third party for verbal bill acceptance verification. If the set_id value is of the normal type (OA_TS_1 through OA_TS_8), then the call processing code will perform a database read of the RLtime_set relation to determine the begin and end times associated with a time set id. The begin and end times correspond to a time of day range when it is acceptable to perform automatic outpulsing to the third party for verbal bill acceptance verification.

**Attribute: lnoc**

**Fullname:** Improved 3rd Number Acceptance large normalized office code (NPA-NXX) translation

**Attribute Description** Used as a key to determine the time set ID number for a range of back line numbers from Exception Table.

**Attribute: intl**

**Fullname:** Improved 3rd Number Acceptance International termination indicator

**Attribute Description** Used as a key to determine the time set ID number for a range of back line numbers from Exception Table terminating to international destinations. This key is always DBNO at this time.

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**Attribute: tupnum**

**Fullname:** Improved Third Number Acceptance tuple number for Exception Table

**Attribute Description** Used as a key containing the tuple number for a particular lnoc. Each lnoc can have a maximum of 9 tuples (0-8).

**Attribute: entries**

**Fullname:** Number of entries for a range array

**Attribute Description** Number of valid ranges for a tuple.

**Attribute: range00**

**Fullname:** Line number range00

**Attribute Description** Line number range00 and associated set_id

**Attribute: range00.begline**

**Fullname:** First line number in range00

**Attribute Description** first line number that start the range00

**Attribute: range00.endline**

**Fullname:** Last line number of range00

**Attribute Description** Marks the end of range00

**Attribute: range00.set_id**

**Fullname:** Improved Third Number Acceptance Time Set ID

**Attribute Description** Time set ID associated with a range of line numbers. The value of OA_NOTS is only used by ODA for initialization purposes

**Attribute: range01**

**Fullname:** Line number range01

**Attribute Description** Line number range01 and associated set_id

**Attribute: range01.begline**

**Fullname:** First line number in range01

**Attribute Description** first line number that start the range01

**Attribute: range01.endline**

**Fullname:** Last line number of range01

**Attribute Description** Marks the end of range01

**Attribute: range01.set_id**

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**Fullname:** Improved Third Number Acceptance Time Set ID

**Attribute Description** Time set ID associated with a range of line numbers. The value of OA_NOTS is only used by ODA for initialization purposes

**Attribute: range02**

**Fullname:** Line number range02

**Attribute Description** Line number range02 and associated set_id

**Attribute: range02.begline**

**Fullname:** First line number in range02

**Attribute Description** first line number that start the range02

**Attribute: range02.endline**

**Fullname:** Last line number of range02

**Attribute Description** Marks the end of range02

**Attribute: range02.set_id**

**Fullname:** Improved Third Number Acceptance Time Set ID

**Attribute Description** Time set ID associated with a range of line numbers. The value of OA_NOTS is only used by ODA for initialization purposes

**Attribute: range03**

**Fullname:** Line number range03

**Attribute Description** Line number range03 and associated set_id

**Attribute: range03.begline**

**Fullname:** First line number in range03

**Attribute Description** first line number that start the range03

**Attribute: range03.endline**

**Fullname:** Last line number of range03

**Attribute Description** Marks the end of range03

**Attribute: range03.set_id**

**Fullname:** Improved Third Number Acceptance Time Set ID

**Attribute Description** Time set ID associated with a range of line numbers. The value of OA_NOTS is only used by ODA for initialization purposes.

**Attribute: range04**

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**Fullname:** Line number range04

**Attribute Description** Line number range04 and associated set_id

**Attribute: range04.begline**

**Fullname:** First line number in range04

**Attribute Description** first line number that start the range04

**Attribute: range04.endline**

**Fullname:** Last line number of range04

**Attribute Description** Marks the end of range04

**Attribute: range04.set_id**

**Fullname:** Improved Third Number Acceptance Time Set ID

**Attribute Description** Time set ID associated with a range of line numbers. The value of OA_NOTS is only used by ODA for initialization purposes.

**Attribute: range05**

**Fullname:** Line number range05

**Attribute Description** Line number range05 and associated set_id.

**Attribute: range05.begline**

**Fullname:** First line number in range05

**Attribute Description** First line number that start the range05.

**Attribute: range05.endline**

**Fullname:** Last line number of range05

**Attribute Description** Line number range05 and associated set_id.

**Attribute: range05.set_id**

**Fullname:** Improved Third Number Acceptance Time Set ID

**Attribute Description** Time set ID associated with a range of line numbers. The value of OA_NOTS is only used by ODA for initialization purposes.

**Attribute: range06**

**Fullname:** Line number range06

**Attribute Description** Line number range06 and associated set_id.

**Attribute: range06.begline**

**Fullname:** First line number in range06

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**Attribute Description** First line number that start the range06.

**Attribute: range06.endline**

**Fullname:** Last line number of range06

**Attribute Description** Marks the end of range06.

**Attribute: range06.set_id**

**Fullname:** Improved Third Number Acceptance Time Set ID

**Attribute Description** Time set ID associated with a range of line numbers. The value of OA_NOTS is only used by ODA for initialization purposes.

**Attribute: range07**

**Fullname:** Line number range07

**Attribute Description** Line number range07 and associated set_id.

**Attribute: range07.begline**

**Fullname:** First line number in range07

**Attribute Description** First line number that start the range07.

**Attribute: range07.endline**

**Fullname:** Last line number of range07

**Attribute Description** Marks the end of range07.

**Attribute: range07.set_id**

**Fullname:** Improved Third Number Acceptance Time Set ID

**Attribute Description** Time set ID associated with a range of line numbers. The value of OA_NOTS is only used by ODA for initialization purposes.

**Attribute: range08**

**Fullname:** Line number range08

**Attribute Description** Line number range08 and associated set_id.

**Attribute: range08.begline**

**Fullname:** First line number in range08

**Attribute Description** First line number that start the range08.

**Attribute: range08.endline**

**Fullname:** Last line number of range08

**Attribute Description** Marks the end of range08.

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**Attribute: range08.set_id**

**Fullname:** Improved Third Number Acceptance Time Set ID

**Attribute Description** Time set ID associated with a range of line numbers. The value of OA_NOTS is only used by ODA for initialization purposes.

**Attribute: range09**

**Fullname:** Line number range09

**Attribute Description** Line number range09 and associated set_id.

**Attribute: range09.begline**

**Fullname:** First line number in range09

**Attribute Description** First line number that start the range09.

**Attribute: range09.endline**

**Fullname:** Last line number of range09

**Attribute Description** Marks the end of range09.

**Attribute: range09.set_id**

**Fullname:** Improved Third Number Acceptance Time Set ID

**Attribute Description** Time set ID associated with a range of line numbers. The value of OA_NOTS is only used by ODA for initialization purposes.

**Attribute: range10**

**Fullname:** Line number range10

**Attribute Description** Line number range10 and associated set_id.

**Attribute: range10.begline**

**Fullname:** First line number in range10

**Attribute Description** First line number that start the range10.

**Attribute: range10.endline**

**Fullname:** Last line number of range10

**Attribute Description** Marks the end of range10.

**Attribute: range10.set_id**

**Fullname:** Improved Third Number Acceptance Time Set ID

**Attribute Description** Time set ID associated with a range of line numbers. The value of OA_NOTS is only used by ODA for initialization purposes.

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**Attribute: range11**

**Fullname:** Line number range11

**Attribute Description** Line number range11 and associated set_id.

**Attribute: range11.begline**

**Fullname:** First line number in range11

**Attribute Description** First line number that start the range11.

**Attribute: range11.endline**

**Fullname:** Last line number of range11

**Attribute Description** Marks the end of range11.

**Attribute: range11.set_id**

**Fullname:** Improved Third Number Acceptance Time Set ID

**Attribute Description** Time set ID associated with a range of line numbers. The value of OA_NOTS is only used by ODA for initialization purposes.

**Attribute: range12**

**Fullname:** Line number range12

**Attribute Description** Line number range12 and associated set_id.

**Attribute: range12.begline**

**Fullname:** First line number in range12

**Attribute Description** First line number that start the range12.

**Attribute: range12.endline**

**Fullname:** Last line number of range12

**Attribute Description** Marks the end of range12.

**Attribute: range12.set_id**

**Fullname:** Improved Third Number Acceptance Time Set ID

**Attribute Description** Time set ID associated with a range of line numbers. The value of OA_NOTS is only used by ODA for initialization purposes.

**Attribute: range13**

**Fullname:** Line number range13

**Attribute Description** Line number range13 and associated set_id.

**Attribute: range13.begline**

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**Fullname:** First line number in range13

**Attribute Description** First line number that start the range13.

**Attribute: range13.endline**

**Fullname:** Last line number of range13

**Attribute Description** Marks the end of range13.

**Attribute: range13.set_id**

**Fullname:** Improved Third Number Acceptance Time Set ID

**Attribute Description** Time set ID associated with a range of line numbers. The value of OA_NOTS is only used by ODA for initialization purposes.

**Attribute: range14**

**Fullname:** Line number range14

**Attribute Description** Line number range14 and associated set_id.

**Attribute: range14.begline**

**Fullname:** First line number in range14

**Attribute Description** First line number that start the range14.

**Attribute: range14.endline**

**Fullname:** Last line number of range14

**Attribute Description** Marks the end of range14.

**Attribute: range14.set_id**

**Fullname:** Improved Third Number Acceptance Time Set ID

**Attribute Description** Time set ID associated with a range of line numbers. The value of OA_NOTS is only used by ODA for initialization purposes.

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# ITNAOLS

## 1. Description

ITNA relation to determine the time set id by OLS.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
ITNAOLS     relid = 2214  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
 (a) orig_stat   DMSVC        (enum: 3)     <--- key, not stored
     carrier     DMBCARID     (ushort: 14)     <--- key, not stored
     ols         DMSCRCDE     (ushort: 10)     <--- key, not stored
 (b) intl        DMBOOL       (enum: 1)     <--- key, not stored
     set_id      DMSET_ID     (enum: 5)
         User and Compacted Tuple Layout    ITNAOLS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |     |                         |                             |   |
  0 |  a  |*************************|          carrier            |***|
    |---------------+---------------+---------------+---------------|
    |                   | |                                       |
  4 |        ols        |b|***************************************|
    |---------------+---------------+---------------+---------------|
    |         |                                                     |
  8 |  set_id |*****************************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
     set_id      DMSET_ID     (enum: 5)
          Stored Tuple Layout      ITNAOLS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |         |                                                     |
  0 |  set_id |*****************************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLitnaols

**Relation Description**
Improved third number acceptance (ITNA) originating line screening (OLS) relation

This relation consists of originating station type (key), carrier (key), ols (key), intl (key), and set_id (non-key) attributes. It is used to determine a time set ID based on originating station type, carrier and OLS code. The time set id attribute consists of a value used to perform a database read of the RLtime_set relation to determine a

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begin and end time of day when automatic outpulsing to a third party number is acceptable for billing verification.

**Attribute: orig_stat**

**Fullname:** Improved third number acceptance (ITNA) originating station type

**Attribute Description** Used as a key for determining if a time set ID is available for a call using the originating station type.

**Attribute: carrier**

**Fullname:** Improved Third Number Acceptance carrier

**Attribute Description** Used as a key combined with originating station type and ols code for determining if a time set ID is available for a call. The value of #LECBCARID is assigned if the carrier is not an IC. It is mapped to the three letters 'LEC' on the RC/ODA view. The value of #NULL_BCARID is used to indicate a NULL carrier ID and provides a don't care condition for the carrier id. This value is not displayed on the RC/ODA view. It is mapped to unknown.

**Attribute: ols**

**Fullname:** Improved third number acceptance (ITNA) originating line screening code

**Attribute Description** Used as a key for determining if a time set ID is available for a call originating on a set of incoming trunk groups grouped by ols code. The ols attribute can have values ranging from (1 - 2000) for valid ols codes or 0 for a don't care value.

**Attribute: intl**

**Fullname:** Improved third number acceptance (ITNA) international call indicator

**Attribute Description** Used as a key for determining if a time set ID is available for a call originating on a set of incoming trunk groups grouped by ols code to an international destination.

**Attribute: set_id**

**Fullname:** Improved Third Number Acceptance time set ID number

**Attribute Description** Used as an index to RLtime_set to determine what time range should be applied for ITNA checks.

**Defines:**"db/DMcarr_val.h"

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# ITNASAC

## 1. Description

The ITNA Special Area Table relation is used to determine if the NPA of a particular third number is part of a "Special Area" requiring special bill to third party billing treatment.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| page level | 0 |

## 3. Field Layout

```
ITNASAC     relid = 2755  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     npa          DMUNS10      (ushort: 10)     <--- key
     spare2       DMUNS4       (ushort: 4)
 (a) bt3trtmnt    DMBT3BT      (enum: 2)
     spare1       DMUNS8       (ushort: 8)
 (b) spare3       DMUNS3       (ushort: 3)
 (c) spare4       DMUNS2       (ushort: 2)
 (d) bool1        DMBOOL       (enum: 1)
 (e) bool2        DMBOOL       (enum: 1)
 (f) bool3        DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout    ITNASAC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |       |   |               |     |   | | | |
  0 |        npa        | spare2| a |     spare1    |  b  | c |d|e|f|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLitnasac

**Relation Description**
Improved Third Number Acceptance (ITNA) Special Area Code Table Relation

The Special Area Table relation is used to store NPAs for areas that do not have third party numbers in the Billing Validation Application (BVA). A typical example of this is for TCAs that handle traffic for locations near the Canadian border and use the BVA for Billed Number Screening (BNS). Under these conditions, the BNS query returns an indeterminate reply because the Canadian third numbers are not in the BVA. To gain the benefits of ITNA automation, the special area table has been provided to store NPAs for these special areas. If the NPA for a special area is present in the special area table, then ITNA checks will be performed.

**Attribute: npa**

**Fullname:** Number Planned Area (NPA) for special area third party number.

**Attribute Description** Used as a key to determine whether or not the third party's number is designated as being is in a Special Area. The values of 100 through 999 are used.

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**Attribute: bt3trtmnt**

**Fullname:** Bill To Third Treatment

**Attribute Description** Used to determine third party billing treatment.

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# ITNASPEC

## 1. Description

The ITNA Special Area Table relation is used to determine if the NPA of a particular third number is part of a "Special Area". The Special Area NPA usually consist of Canadian third number NPAs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| page level | 0 |

## 3. Field Layout

```
ITNASPEC    relid = 1277  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     npa          DMUNS10       (ushort: 10)     <--- key
 (a) bt3trtmnt    DMUNS3        (ushort: 3)
         User and Compacted Tuple Layout   ITNASPEC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |     |                                     |
  0 |         npa       |  a  |*************************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
     npa          DMUNS10       (ushort: 10)     <--- key
 (a) bt3trtmnt    DMUNS3        (ushort: 3)
           Stored Tuple Layout     ITNASPEC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |     |                                     |
  0 |         npa       |  a  |*************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLitnaspec

**Relation Description**
Improved Third Number Acceptance (ITNA) Special Area Table Relation

The Special Area Table relation is used to store the NPA for areas that do not have third party numbers in the billing validation application (BVA). A typical example of this is for TCAs that handle traffic for locations near the Canadian border and use the BVA for billed number screening (BNS). Under these conditions, the BNS queries returns with an indeterminate reply because the Canadian third numbers are not in the BVA. To gain the benefits of ITNA automation, the special area table has be provided to store NPAs for these special areas. If the NPA for a special area is present in the special area table, then ITNA checks will be performed.

**Attribute: npa**

**Fullname:** Number Planned Area (NPA) for special area third party number.

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**Attribute Description** This is used as key to determine whether or not the third parties number is designated as being is in a Special Area. The values of 100 through 199 are used for the Direct International Origination (DIOR) feature.

**Attribute: bt3trtmnt**

**Fullname:** Bill To Third Treatment

**Attribute Description** Used to determine what type of treatment is to be given.

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# ITNASTAT

## 1. Description

Relation that determines ITNA search options for time_set id based on the originating station type.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| foldtype | DBDEFAULT |

## 3. Field Layout

```
ITNASTAT    relid = 1260  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     set_id      DMSET_ID     (enum: 5)
 (a) orig_stat   DMSVC        (enum: 3)     <--- key
 (b) intl        DMBOOL       (enum: 1)     <--- key
 (c) carrier     DMBOOL       (enum: 1)
 (d) tgn         DMBOOL       (enum: 1)
 (e) ols         DMBOOL       (enum: 1)
        User and Compacted Tuple Layout   ITNASTAT
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |         |     | | | | |                                       |
 0 |  set_id |  a  |b|c|d|e|***************************************|
   |---------------+---------------+---------------+---------------|
      ( 4 bytes )
     set_id      DMSET_ID     (enum: 5)
 (a) orig_stat   DMSVC        (enum: 3)     <--- key
 (b) intl        DMBOOL       (enum: 1)     <--- key
 (c) carrier     DMBOOL       (enum: 1)
 (d) tgn         DMBOOL       (enum: 1)
 (e) ols         DMBOOL       (enum: 1)
          Stored Tuple Layout     ITNASTAT
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |         |     | | | | |                                       |
 0 |  set_id |  a  |b|c|d|e|***************************************|
   |---------------+---------------+---------------+---------------|
      ( 2 bytes )
```

## 4. Population Rules for RLitnastat

**Relation Description**
Improved third number acceptance (ITNA) relation used to determine carrier, tgn and set_id values based on originated station type.

This relation is used by the OSPS ITNA feature. It contains the following attributes:
orig_stat

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```
---------
Originating  station type
intl
---------
international  termination indicator
carrier
-------
A boolean flag to determine  if the actual carrier ID
handling the call is to be used or a don't care value for carrier.
This information is used by both RC/V and  call processing code.
tgn
---
A boolean flag to determine if the actual trunk group
number on which the call originated is to be used
or a don't care value for TGN. This information is used
by both RC/V and call processing code.
ols
----
unused at this time
set_id
------
The set ID attribute will contain the actual time set id used by
ITNA treatment only if the carrier and tgn flags are both set to DBNO,
otherwise it will be set to OA_NOTS
meaning no time set ID can be determined by this relation,
other ITNA relations will have to be read to determine the
actual set ID to be used for ITNA treatment.
The general purpose of this relation from a call processing perspective:
------------------------------------------------------------------------
Based on originating station type, determine what values to use for
carrier and tgn.
```

If carrier flag is DBYES, then use the carrier ID identified by call processing for performing ITNA checks. If carrier flag is DBNO, then use the value of #NULL_BCARID for ITNA checks.

If tgn flag is DBYES, then use the trunk group number on which the call originated for performing ITNA checks. If tgn flag is DBNO, then use the value of 0 (NULL TGN) for ITNA checks.

When both the carrier and tgn flags are DBNO, then there is no need to look at additional ITNA relations to determine the time set id, therefore, the set ID in this relation must contain a time set ID other than OA_NOTS.

```
The general purpose of this relation from a RC/V perspective:
-------------------------------------------------------------
RC/V uses the information in this relation to determine
what ITNA relations need to be populated and what values
to use for population based on the carrier and tgn flags.
```

For example:

If the RC/V user enters a carriage return or a (') for the carrier field, then RC can assume the user does not care to treat specific carrier ids in a special manner. Therefore, all carrier ids will receive the same treatment and the carrier flag will be set to DBNO meaning don't care. The carrier ID in this case will be set to a value of #NULL_BCARID.

If the RC/V user enters a valid carrier ID (0 - 999 or LEC), then RC can assume the user would like to treat carrier

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ids in a specific manner. The carrier flag will then be set to DBYES and the carrier ID entered on the view will be used to populate additional ITNA relations.

If the RC/V user enters a carriage return or a (') for the trunk group number field, then

RC can assume the user does not care to treat specific trunk groups in a special manner. Therefore, all trunk groups will receive the same treatment and the tgn flag will be set to DBNO meaning don't care. The trunk group number in this case will be set to a value of 0 (NULL trunk group number).

If the RC/V user enters a valid trunk group number (1 - AVTRKGRPS()), then RC can assume the user would like to treat trunk groups in a specific manner. The tgn flag will then be set to DBYES and the trunk group number entered on the view will be used to populate additional ITNA relations.

**Attribute: orig_stat**

**Fullname:** Originating Station Type

**Attribute Description** The orig_stat is the key to this relation. This will determine, for a given originating station type whether the tgn and carrier values are populated in the RLitnatgn or RLitnatrng or if they are a don't care conditions. Originating station type can also be considered a don't care conditions if its value is CRSVUNKNOWN.

**Attribute: intl**

**Fullname:** International termination indicator

**Attribute Description** The intl bit is a secondary key to this relation that is always DBNO at this time.

**Attribute: carrier**

**Fullname:** Carrier flag to determine if carrier is a valid value or a don't care condition

**Attribute Description** The carrier attribute can be DBYES or DBNO to indicate if the carrier has a particular value or if is a don't care condition. If the value is DBYES, then call processing code will perform a database read using the actual carrier and if the value is DBNO, then a value of #NULL_BCARID will be used.

**Attribute: tgn**

**Fullname:** Trunk group number flag used to determine if the trunk group number is valid value or a don't care value.

**Attribute Description** The tgn attribute can take on the value of DBYES or DBNO to indicate if the tgn has a particular value or if it is a don't care condition. If the value is DBYES, then call processing code will use the actual trunk group number that the call originated on. If the value is DBNO, then the don't care value of 0 will be used for trunk group number. The carrier and trunk group number values will be used by call processing to perform a database read of other ITNA relations.

**Attribute: ols**

**Fullname:** Originating Line Screening

**Attribute Description** The ols bit is always DBNO at this time.

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**Attribute: set_id**

**Fullname:** Time Set Id

**Attribute Description** This attribute is used to specify a valid set ID only if both the carrier and tgn attributes are DBNO. If either carrier or tgn or both carrier and tgn are DBYES, then set_id must have the value of OA_NOTS (No Time Set).

**Defines:**"db/DMcarr_val.h"

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# ITNATGN

## 1. Description

ITNA org_stat, carr, and trunk group to time_set_id are used to determine an ITNA time_set_id, given an originating station type, carrier, and trunk group number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8191 |
| expected tuples in relation | 65 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
ITNATGN     relid = 1262  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
 (a) orig_stat   DMSVC        (enum: 3)     <--- key
     carrier     DMBCARID     (ushort: 14)     <--- key
     trunk_num   DMGRUPNM     (ushort: 13)     <--- key
 (b) intl        DMBOOL       (enum: 1)     <--- key
     set_id      DMSET_ID     (enum: 5)
         User, Compacted and Stored Tuple Layout    ITNATGN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |     |                         |                             |   |
  0 |  a  |*************************|          carrier            |***|
    |---------------+---------------+---------------+---------------|
    |                         | |   |         |                     |
  4 |        trunk_num        |b|***|  set_id |*********************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLitnatgn

**Relation Description**
Improved Third Number Acceptance (ITNA) single trunk group number relation

This relation consists of originating station type (key), carrier (key), trunk_num (key) and set_id (non-key) attributes. It is used to determine a time set id based on originating station type, carrier and trunk group number. The time set id attribute consists of a value used to perform a database read of the RLtime_set relation to determine a begin and end time of day when automatic outpulsing to a third party number is acceptable for billing verification.

**Attribute: orig_stat**

**Fullname:** Improved third number acceptance (ITNA) originating station type

**Attribute Description** Used as a key for determining if a time set id is available for a call using the originating station type

**Attribute: carrier**

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**Fullname:** Improved Third Number Acceptance carrier

**Attribute Description** This is used as a key combined with originating station type and trunk group number for determining if a time set id is available for a call. The value of #LECBCARID is assigned if the carrier is not an IC. It is mapped to the three letters 'LEC' on the RC/ODA view. The value of #NULL_BCARID is used to indicate a NULL carrier id and provides a don't care condition for the carrier id. This value is not displayed on the RC/ODA view. It is mapped to unknown.

**Attribute: trunk_num**

**Fullname:** Improved Third Number Acceptance (ITNA) trunk group number

**Attribute Description** This is used as a key for determining if a time set id is available for a call originating on a particular incoming trunk group number. The trunk_num attribute can have values ranging from (1 - AVTRKGRPS()) for valid trunk group numbers or 0 for a don't care value.

**Attribute: intl**

**Fullname:** International destination indicator

**Attribute Description** This is used as a key for determining if a time set id is available for a call originating on a particular incoming trunk group number terminating to an international destination. This key is always DBNO at this time.

**Attribute: set_id**

**Fullname:** Improved Third Number Acceptance time set id number

**Attribute Description** This is used as an index to RLtime_set to determine what time range should be applied for ITNA checks

**Defines:**"db/DMcarr_val.h"

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# ITNATRNG

## 1. Description

ITNA org_stat, carr, and trunk group range are used to determine the time_set_id required for a particular ITNA call.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 400 |
| expected tuples in relation | 2 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
ITNATRNG    relid = 1261  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
 (a) orig_stat   DMSVC        (enum: 3)     <--- key
 (b) tupnum      DMUNS3       (ushort: 3)     <--- key
     carrier     DMBCARID     (ushort: 14)     <--- key
 (c) intl        DMBOOL       (enum: 1)     <--- key
     num_rng     DMUNS5       (ushort: 5)
     tgnrng00    DMTGN_RNG    (struct)
         begtgn      DMGRUPNM     (ushort: 13)
         endtgn      DMGRUPNM     (ushort: 13)
         set_id      DMSET_ID     (enum: 5)
     tgnrng01    DMTGN_RNG    (struct)
         begtgn      DMGRUPNM     (ushort: 13)
         endtgn      DMGRUPNM     (ushort: 13)
         set_id      DMSET_ID     (enum: 5)
     tgnrng02    DMTGN_RNG    (struct)
         begtgn      DMGRUPNM     (ushort: 13)
         endtgn      DMGRUPNM     (ushort: 13)
         set_id      DMSET_ID     (enum: 5)
     tgnrng03    DMTGN_RNG    (struct)
         begtgn      DMGRUPNM     (ushort: 13)
         endtgn      DMGRUPNM     (ushort: 13)
         set_id      DMSET_ID     (enum: 5)
     tgnrng04    DMTGN_RNG    (struct)
         begtgn      DMGRUPNM     (ushort: 13)
         endtgn      DMGRUPNM     (ushort: 13)
         set_id      DMSET_ID     (enum: 5)
     tgnrng05    DMTGN_RNG    (struct)
         begtgn      DMGRUPNM     (ushort: 13)
         endtgn      DMGRUPNM     (ushort: 13)
         set_id      DMSET_ID     (enum: 5)
     tgnrng06    DMTGN_RNG    (struct)
         begtgn      DMGRUPNM     (ushort: 13)
         endtgn      DMGRUPNM     (ushort: 13)
         set_id      DMSET_ID     (enum: 5)
     tgnrng07    DMTGN_RNG    (struct)
         begtgn      DMGRUPNM     (ushort: 13)
```

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```
        endtgn      DMGRUPNM     (ushort: 13)
        set_id      DMSET_ID     (enum: 5)
    tgnrng08    DMTGN_RNG    (struct)
        begtgn      DMGRUPNM     (ushort: 13)
        endtgn      DMGRUPNM     (ushort: 13)
        set_id      DMSET_ID     (enum: 5)
    tgnrng09    DMTGN_RNG    (struct)
        begtgn      DMGRUPNM     (ushort: 13)
        endtgn      DMGRUPNM     (ushort: 13)
        set_id      DMSET_ID     (enum: 5)
    tgnrng10    DMTGN_RNG    (struct)
        begtgn      DMGRUPNM     (ushort: 13)
        endtgn      DMGRUPNM     (ushort: 13)
        set_id      DMSET_ID     (enum: 5)
    tgnrng11    DMTGN_RNG    (struct)
        begtgn      DMGRUPNM     (ushort: 13)
        endtgn      DMGRUPNM     (ushort: 13)
        set_id      DMSET_ID     (enum: 5)
    tgnrng12    DMTGN_RNG    (struct)
        begtgn      DMGRUPNM     (ushort: 13)
        endtgn      DMGRUPNM     (ushort: 13)
        set_id      DMSET_ID     (enum: 5)
    tgnrng13    DMTGN_RNG    (struct)
        begtgn      DMGRUPNM     (ushort: 13)
        endtgn      DMGRUPNM     (ushort: 13)
        set_id      DMSET_ID     (enum: 5)
    tgnrng14    DMTGN_RNG    (struct)
        begtgn      DMGRUPNM     (ushort: 13)
        endtgn      DMGRUPNM     (ushort: 13)
        set_id      DMSET_ID     (enum: 5)
    tgnrng15    DMTGN_RNG    (struct)
        begtgn      DMGRUPNM     (ushort: 13)
        endtgn      DMGRUPNM     (ushort: 13)
        set_id      DMSET_ID     (enum: 5)
        User, Compacted and Stored Tuple Layout   ITNATRNG
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |     |     |                   |                             | | |
 0 |  a  |  b  |*******************|          carrier            |c|*|
   |---------------+---------------+---------------+---------------|
   |         |                                                     |
 4 | num_rng |*****************************************************|
   |===============+==========  tgnrng00 ==========+===============|
   |                         |     |                         |     |
 8 |          begtgn         |*****|          endtgn         |*****|
   |---------------+---------------+---------------+---------------|
   |         |                                                     |
12 |  set_id |*****************************************************|
   |===============+==========  tgnrng01 ==========+===============|
   |                         |     |                         |     |
16 |          begtgn         |*****|          endtgn         |*****|
   |---------------+---------------+---------------+---------------|
   |         |                                                     |
```

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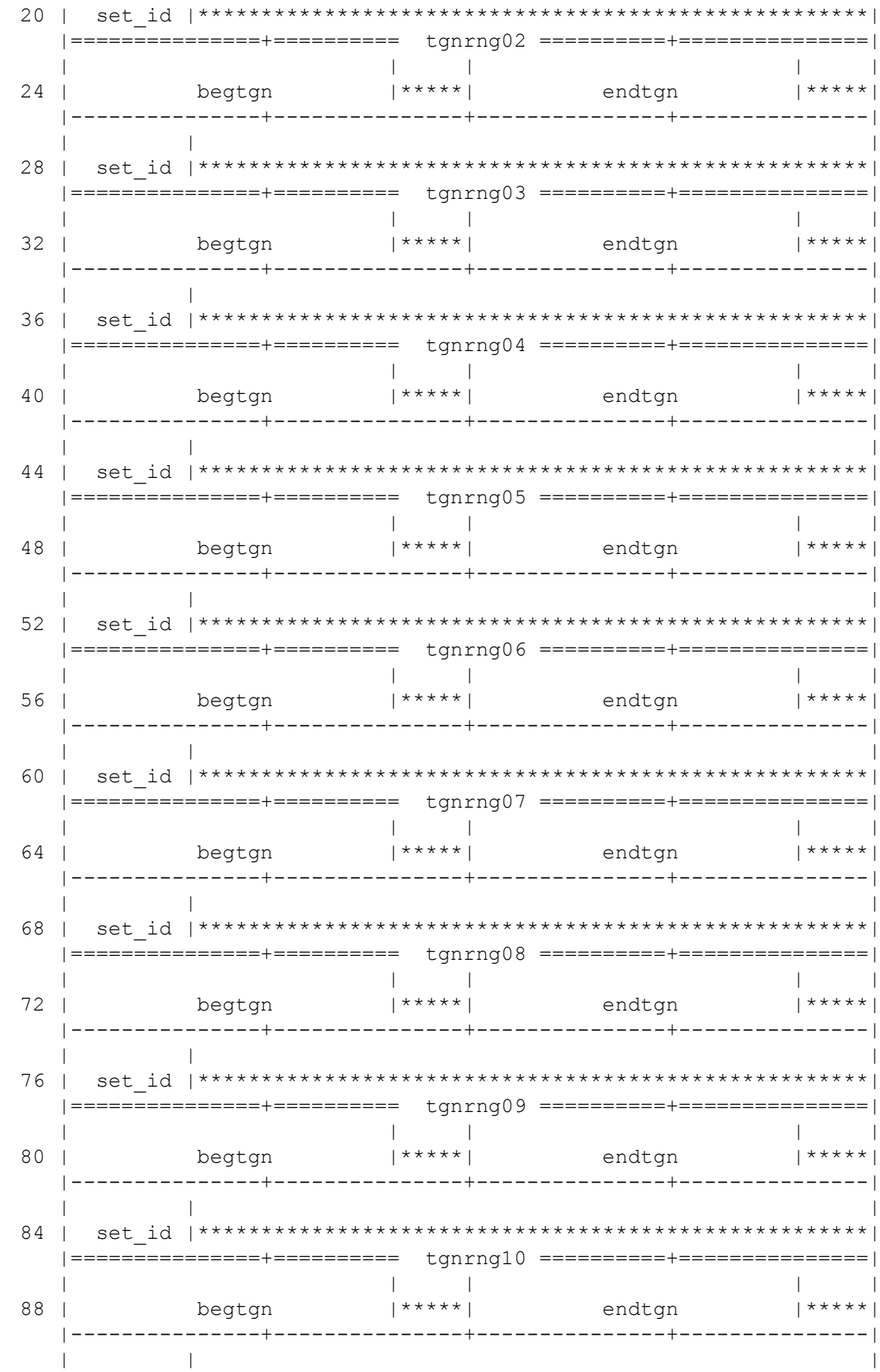


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```
 92 |  set_id |*************************************************|
    |===============+==========  tgnrng11 ==========+===============|
    |                          |     |                          |     |
 96 |          begtgn          |*****|          endtgn          |*****|
    |---------------+---------------+---------------+---------------|
    |          |                                                    |
100 |  set_id |*************************************************|
    |===============+==========  tgnrng12 ==========+===============|
    |                          |     |                          |     |
104 |          begtgn          |*****|          endtgn          |*****|
    |---------------+---------------+---------------+---------------|
    |          |                                                    |
108 |  set_id |*************************************************|
    |===============+==========  tgnrng13 ==========+===============|
    |                          |     |                          |     |
112 |          begtgn          |*****|          endtgn          |*****|
    |---------------+---------------+---------------+---------------|
    |          |                                                    |
116 |  set_id |*************************************************|
    |===============+==========  tgnrng14 ==========+===============|
    |                          |     |                          |     |
120 |          begtgn          |*****|          endtgn          |*****|
    |---------------+---------------+---------------+---------------|
    |          |                                                    |
124 |  set_id |*************************************************|
    |===============+==========  tgnrng15 ==========+===============|
    |                          |     |                          |     |
128 |          begtgn          |*****|          endtgn          |*****|
    |---------------+---------------+---------------+---------------|
    |          |                                                    |
132 |  set_id |*************************************************|
    |===============+===============+===============+===============|
       ( 136 bytes )
domain alITNATRNG   struct  (6 sub-attributes)
 (a)     orig_stat   .0fake       (enum)
 (b)     tupnum      .5.fake      (ushort: 3)
         carrier     .6.fake      (ushort: 14)
 (c)     intl        .1fake       (enum)
         num_rng     .7.fake      (ushort: 5)
         tgnrng      .8.fake      (array [ 16 ] of .3fake )
             begtgn      .0.fake      (ushort: 13)
             endtgn      .1.fake      (ushort: 13)
             set_id      .2fake       (enum)
         Structure Layout      alITNATRNG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |     |     |                   |                           | | |
  0 |  a  |  b  |*******************|          carrier          |c|*|
    |---------------+---------------+---------------+---------------|
    |          |                                                    |
  4 | num_rng |*************************************************|
    |===============+========== tgnrng[0] ==========+===============|
    |                          |     |                          |     |
```

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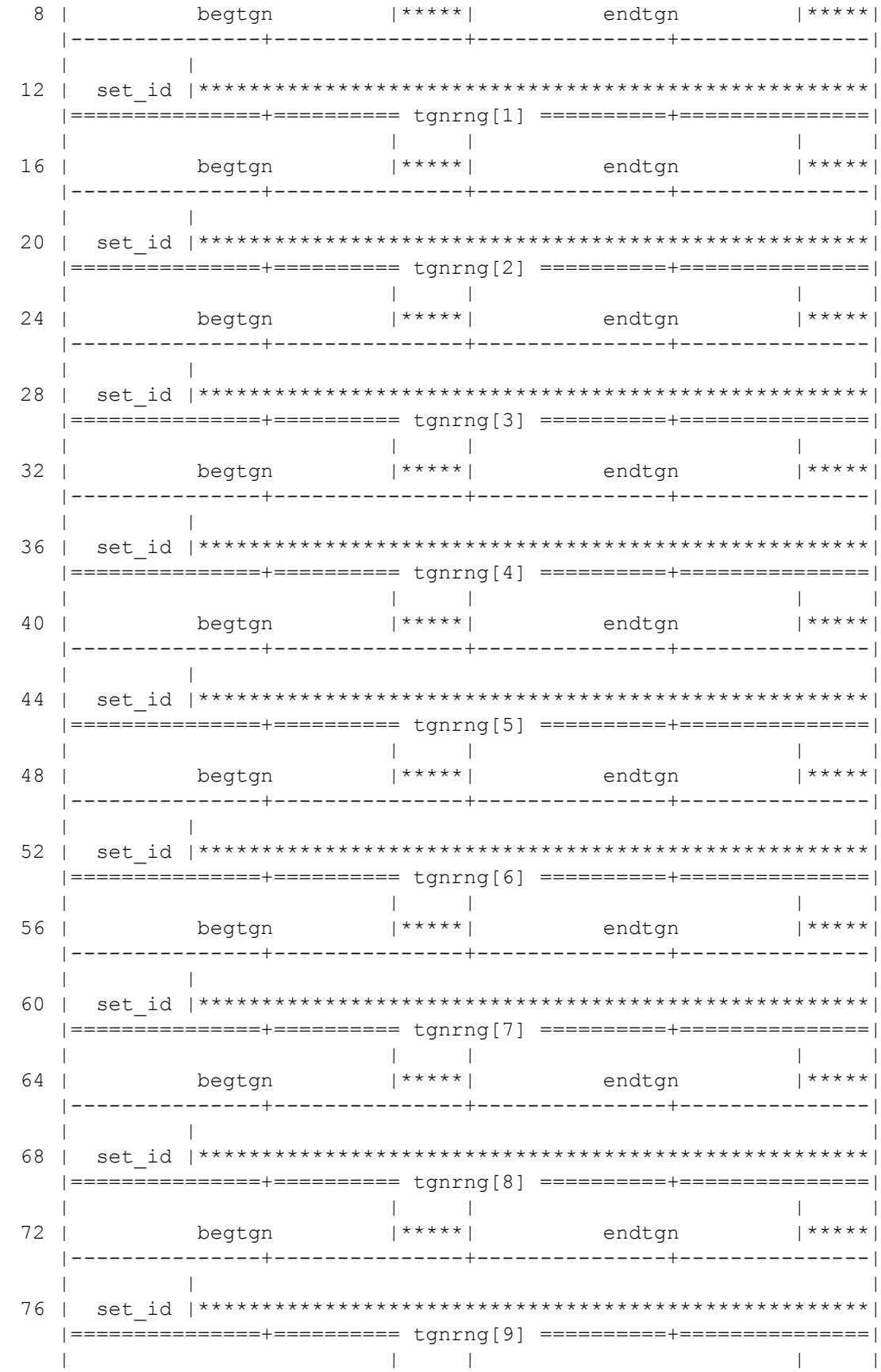


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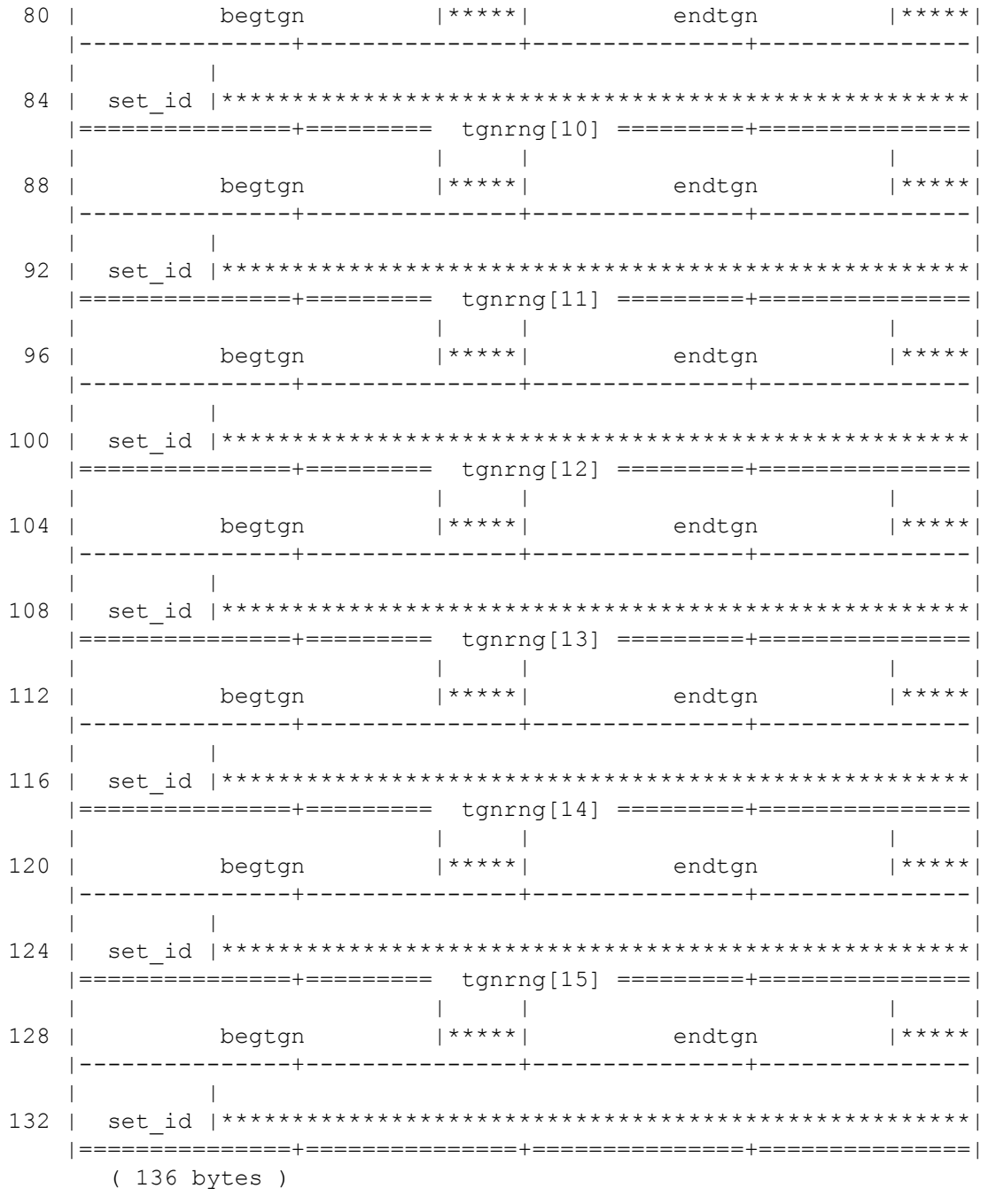

( 136 bytes )

## 4. Population Rules for RLitnatrng

**Relation Description**
Improved 3rd Number Acceptance time set by trunk group range.

This relation consists of originating station type (key), tuple number (key), carrier (key), number range (non-key) and a series of 16 trunk group number range structures. The purpose of the relation is to find a time set ID for a particular originating station type, carrier and trunk group range. The time set ID (set_id) consists of a value used to perform a database read of the RLtime_set relation for determining an associated time of day when automatic outpulsing to a third number party is acceptable for billing verification.

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**Attribute: orig_stat**

**Fullname:** Improved 3rd Number Acceptance originating station type

**Attribute Description** Used as a key for determining if a time set ID is available for a call using the originating station type.

**Attribute: tupnum**

**Fullname:** Improved 3rd Number Acceptance compressed trunk group number

**Attribute Description** Used as a key for determining the tuple containing the trunk group ranges. Each tuple can contain up to 16 trunk ranges.

**Attribute: carrier**

**Fullname:** Improved 3rd Number Acceptance carrier

**Attribute Description** Used as a key for determining if a time set ID is available for a call using the carrier for the call. The value of #LECBCARID is mapped to the three letters 'LEC' on the RC/ODA view. The value of #NULL_BCARID is used to indicate a NULL carrier ID and is not displayed on the RC/ODA view. It is mapped to unknown.

**Attribute: intl**

**Fullname:** Improved 3rd Number Acceptance International termination indicator

**Attribute Description** Used as a key for determining if a time set ID is available for a call using the carrier for the call terminating to an international destination. This key is always DBNO at this time.

**Attribute: num_rng**

**Fullname:** Number of valid ranges in a tuple

**Attribute Description** Used to limit the search for trunk group range to the number of valid trunk group ranges in the tuple.

**Attribute: tgnrng00**

**Fullname:** Trunk group range 0

**Attribute Description** Trunk group range 0 and associated time set ID.

**Attribute: tgnrng00.begtgn**

**Fullname:** First trunk group number in this range

**Attribute Description** Contains the first trunk group number for a particular range.

**Attribute: tgnrng00.endtgn**

**Fullname:** Last trunk group number in this range

**Attribute Description** Contains the last trunk group number for a particular range.

**Attribute: tgnrng00.set_id**

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**Fullname:** Improved 3rd Number Acceptance time set ID number

**Attribute Description** Contains the set_id for the particular trunk group number range.

**Attribute: tgnrng01**

**Fullname:** Trunk group range 1

**Attribute Description** Trunk group range 1 and associated time set ID.

**Attribute: tgnrng01.begtgn**

**Fullname:** First trunk group number in this range

**Attribute Description** Contains the first trunk group number for a particular range.

**Attribute: tgnrng01.endtgn**

**Fullname:** Last trunk group number in this range

**Attribute Description** Contains the last trunk group number for a particular range.

**Attribute: tgnrng01.set_id**

**Fullname:** Improved 3rd Number Acceptance time set ID number

**Attribute Description** Contains the set_id for the particular trunk group number range.

**Attribute: tgnrng02**

**Fullname:** Trunk group range 2

**Attribute Description** Trunk group range 2 and associated time set ID.

**Attribute: tgnrng02.begtgn**

**Fullname:** First trunk group number in this range

**Attribute Description** Contains the first trunk group number for a particular range.

**Attribute: tgnrng02.endtgn**

**Fullname:** Last trunk group number in this range

**Attribute Description** Contains the last trunk group number for a particular range.

**Attribute: tgnrng02.set_id**

**Fullname:** Improved 3rd Number Acceptance time set ID number

**Attribute Description** Contains the set_id for the particular trunk group number range.

**Attribute: tgnrng03**

**Fullname:** Trunk group range 3

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**Attribute Description** Trunk group range 3 and associated time set ID.

**Attribute: tgnrng03.begtgn**

**Fullname:** First trunk group number in this range

**Attribute Description** Contains the first trunk group number for a particular range.

**Attribute: tgnrng03.endtgn**

**Fullname:** Last trunk group number in this range

**Attribute Description** Contains the last trunk group number for a particular range.

**Attribute: tgnrng03.set_id**

**Fullname:** Improved 3rd Number Acceptance time set ID number

**Attribute Description** Contains the set_id for the particular trunk group number range.

**Attribute: tgnrng04**

**Fullname:** Trunk group range 4

**Attribute Description** Trunk group range 4 and associated time set ID.

**Attribute: tgnrng04.begtgn**

**Fullname:** First trunk group number in this range

**Attribute Description** Contains the first trunk group number for a particular range.

**Attribute: tgnrng04.endtgn**

**Fullname:** Last trunk group number in this range

**Attribute Description** Contains the last trunk group number for a particular range.

**Attribute: tgnrng04.set_id**

**Fullname:** Improved 3rd Number Acceptance time set ID number

**Attribute Description** Contains the set_id for the particular trunk group number range.

**Attribute: tgnrng05**

**Fullname:** Trunk group range 5

**Attribute Description** Trunk group range 5 and associated time set ID.

**Attribute: tgnrng05.begtgn**

**Fullname:** First trunk group number in this range

**Attribute Description** Contains the first trunk group number for a particular range.

**Attribute: tgnrng05.endtgn**

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**Fullname:** Last trunk group number in this range

**Attribute Description** Contains the last trunk group number for a particular range.

**Attribute: tgnrng05.set_id**

**Fullname:** Improved 3rd Number Acceptance time set ID number

**Attribute Description** Contains the set_id for the particular trunk group number range.

**Attribute: tgnrng06**

**Fullname:** Trunk group range 6

**Attribute Description** Trunk group range 6 and associated time set ID.

**Attribute: tgnrng06.begtgn**

**Fullname:** First trunk group number in this range

**Attribute Description** Contains the first trunk group number for a particular range.

**Attribute: tgnrng06.endtgn**

**Fullname:** Last trunk group number in this range

**Attribute Description** Contains the last trunk group number for a particular range.

**Attribute: tgnrng06.set_id**

**Fullname:** Improved 3rd Number Acceptance time set ID number

**Attribute Description** Contains the set_id for the particular trunk group number range.

**Attribute: tgnrng07**

**Fullname:** Trunk group range 7

**Attribute Description** Trunk group range 7 and associated time set ID.

**Attribute: tgnrng07.begtgn**

**Fullname:** First trunk group number in this range

**Attribute Description** Contains the first trunk group number for a particular range.

**Attribute: tgnrng07.endtgn**

**Fullname:** Last trunk group number in this range

**Attribute Description** Contains the last trunk group number for a particular range.

**Attribute: tgnrng07.set_id**

**Fullname:** Improved 3rd Number Acceptance time set ID number

**Attribute Description** Contains the set_id for the particular trunk group number range.

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**Attribute: tgnrng08**

**Fullname:** Trunk group range 8

**Attribute Description** Trunk group range 8 and associated time set ID.

**Attribute: tgnrng08.begtgn**

**Fullname:** First trunk group number in this range

**Attribute Description** Contains the first trunk group number for a particular range.

**Attribute: tgnrng08.endtgn**

**Fullname:** Last trunk group number in this range

**Attribute Description** Contains the last trunk group number for a particular range.

**Attribute: tgnrng08.set_id**

**Fullname:** Improved 3rd Number Acceptance time set ID number

**Attribute Description** Contains the set_id for the particular trunk group number range.

**Attribute: tgnrng09**

**Fullname:** Trunk group range 9

**Attribute Description** Trunk group range 9 and associated time set ID.

**Attribute: tgnrng09.begtgn**

**Fullname:** First trunk group number in this range

**Attribute Description** Contains the first trunk group number for a particular range.

**Attribute: tgnrng09.endtgn**

**Fullname:** Last trunk group number in this range

**Attribute Description** Contains the last trunk group number for a particular range.

**Attribute: tgnrng09.set_id**

**Fullname:** Improved 3rd Number Acceptance time set ID number

**Attribute Description** Contains the set_id for the particular trunk group number range.

**Attribute: tgnrng10**

**Fullname:** Trunk group range 10

**Attribute Description** Trunk group range 10 and associated time set ID.

**Attribute: tgnrng10.begtgn**

**Fullname:** First trunk group number in this range

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**Attribute Description** Contains the first trunk group number for a particular range.

**Attribute: tgnrng10.endtgn**

**Fullname:** Last trunk group number in this range

**Attribute Description** Contains the last trunk group number for a particular range.

**Attribute: tgnrng10.set_id**

**Fullname:** Improved 3rd Number Acceptance time set ID number

**Attribute Description** Contains the set_id for the particular trunk group number range.

**Attribute: tgnrng11**

**Fullname:** Trunk group range 11

**Attribute Description** Trunk group range 11 and associated time set ID.

**Attribute: tgnrng11.begtgn**

**Fullname:** First trunk group number in this range

**Attribute Description** Contains the first trunk group number for a particular range.

**Attribute: tgnrng11.endtgn**

**Fullname:** Last trunk group number in this range

**Attribute Description** Contains the last trunk group number for a particular range.

**Attribute: tgnrng11.set_id**

**Fullname:** Improved 3rd Number Acceptance time set ID number

**Attribute Description** Contains the set_id for the particular trunk group number range.

**Attribute: tgnrng12**

**Fullname:** Trunk group range 12

**Attribute Description** Trunk group range 12 and associated time set ID.

**Attribute: tgnrng12.begtgn**

**Fullname:** First trunk group number in this range

**Attribute Description** Contains the first trunk group number for a particular range.

**Attribute: tgnrng12.endtgn**

**Fullname:** Last trunk group number in this range

**Attribute Description** Contains the last trunk group number for a particular range.

**Attribute: tgnrng12.set_id**

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**Fullname:** Improved 3rd Number Acceptance time set ID number

**Attribute Description** Contains the set_id for the particular trunk group number range.

**Attribute: tgnrng13**

**Fullname:** Trunk group range 13

**Attribute Description** Trunk group range 13 and associated time set ID.

**Attribute: tgnrng13.begtgn**

**Fullname:** First trunk group number in this range

**Attribute Description** Contains the first trunk group number for a particular range.

**Attribute: tgnrng13.endtgn**

**Fullname:** Last trunk group number in this range

**Attribute Description** Contains the last trunk group number for a particular range.

**Attribute: tgnrng13.set_id**

**Fullname:** Improved 3rd Number Acceptance time set ID number

**Attribute Description** Contains the set_id for the particular trunk group number range.

**Attribute: tgnrng14**

**Fullname:** Trunk group range 14

**Attribute Description** Trunk group range 14 and associated time set ID.

**Attribute: tgnrng14.begtgn**

**Fullname:** First trunk group number in this range

**Attribute Description** Contains the first trunk group number for a particular range.

**Attribute: tgnrng14.endtgn**

**Fullname:** Last trunk group number in this range

**Attribute Description** Contains the last trunk group number for a particular range

**Attribute: tgnrng14.set_id**

**Fullname:** Improved 3rd Number Acceptance time set ID number

**Attribute Description** Contains the set_id for the particular trunk group number range.

**Attribute: tgnrng15**

**Fullname:** Trunk group range 15

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**Attribute Description** Trunk group range 15 and associated time set ID.

**Attribute: tgnrng15.begtgn**

**Fullname:** First trunk group number in this range

**Attribute Description** Contains the first trunk group number for a particular range

**Attribute: tgnrng15.endtgn**

**Fullname:** Last trunk group number in this range

**Attribute Description** Contains the last trunk group number for a particular range.

**Attribute: tgnrng15.set_id**

**Fullname:** Improved 3rd Number Acceptance time set ID number

**Attribute Description** Contains the set_id for the particular trunk group number range.

**Defines:**"db/DMcarr_val.h"

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# IVT_TKG

## 1. Description

Contains the intervendor *Autoplex*® trunks on a SM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 192 |
| expected number of tuples | 40 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application type | CGA |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
IVT_TKG     relid = 2077  DBSTATIC   DBACC_HASH  DBPRAM    LP      CGA
     sm          DMMODULE     (ushort: 8)  <--- key
     range       DMUNS5       (ushort: 5)  <--- key
     cnt         DMUNS9       (ushort: 9)
     tgnmem1     DMTKGRP      (struct)
         tgrpid      DMGRPNUM     (ushort)
         member      DMMEMBER     (ushort)
     tgnmem2     DMTKGRP      (struct)
         tgrpid      DMGRPNUM     (ushort)
         member      DMMEMBER     (ushort)
     tgnmem3     DMTKGRP      (struct)
         tgrpid      DMGRPNUM     (ushort)
         member      DMMEMBER     (ushort)
     tgnmem4     DMTKGRP      (struct)
         tgrpid      DMGRPNUM     (ushort)
         member      DMMEMBER     (ushort)
     tgnmem5     DMTKGRP      (struct)
         tgrpid      DMGRPNUM     (ushort)
         member      DMMEMBER     (ushort)
     tgnmem6     DMTKGRP      (struct)
         tgrpid      DMGRPNUM     (ushort)
         member      DMMEMBER     (ushort)
     tgnmem7     DMTKGRP      (struct)
         tgrpid      DMGRPNUM     (ushort)
         member      DMMEMBER     (ushort)
     tgnmem8     DMTKGRP      (struct)
         tgrpid      DMGRPNUM     (ushort)
         member      DMMEMBER     (ushort)
     tgnmem9     DMTKGRP      (struct)
         tgrpid      DMGRPNUM     (ushort)
         member      DMMEMBER     (ushort)
     tgnmem10    DMTKGRP      (struct)
         tgrpid      DMGRPNUM     (ushort)
         member      DMMEMBER     (ushort)
     tgnmem11    DMTKGRP      (struct)
         tgrpid      DMGRPNUM     (ushort)
```

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```
        member      DMMEMBER     (ushort)
    tgnmem12    DMTKGRP      (struct)
        tgrpid      DMGRPNUM     (ushort)
        member      DMMEMBER     (ushort)
    tgnmem13    DMTKGRP      (struct)
        tgrpid      DMGRPNUM     (ushort)
        member      DMMEMBER     (ushort)
    tgnmem14    DMTKGRP      (struct)
        tgrpid      DMGRPNUM     (ushort)
        member      DMMEMBER     (ushort)
    tgnmem15    DMTKGRP      (struct)
        tgrpid      DMGRPNUM     (ushort)
        member      DMMEMBER     (ushort)
        User, Compacted and Stored Tuple Layout    IVT_TKG
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |         |     |                 |             |
 0 |       sm      |  range  |*****|       cnt       |*************|
   |===============+=========== tgnmem1 ===========+===============|
   |                             |                                 |
 4 |             tgrpid          |             member              |
   |===============+=========== tgnmem2 ===========+===============|
   |                             |                                 |
 8 |             tgrpid          |             member              |
   |===============+=========== tgnmem3 ===========+===============|
   |                             |                                 |
12 |             tgrpid          |             member              |
   |===============+=========== tgnmem4 ===========+===============|
   |                             |                                 |
16 |             tgrpid          |             member              |
   |===============+=========== tgnmem5 ===========+===============|
   |                             |                                 |
20 |             tgrpid          |             member              |
   |===============+=========== tgnmem6 ===========+===============|
   |                             |                                 |
24 |             tgrpid          |             member              |
   |===============+=========== tgnmem7 ===========+===============|
   |                             |                                 |
28 |             tgrpid          |             member              |
   |===============+=========== tgnmem8 ===========+===============|
   |                             |                                 |
32 |             tgrpid          |             member              |
   |===============+=========== tgnmem9 ===========+===============|
   |                             |                                 |
36 |             tgrpid          |             member              |
   |===============+==========  tgnmem10 ==========+===============|
   |                             |                                 |
40 |             tgrpid          |             member              |
   |===============+==========  tgnmem11 ==========+===============|
   |                             |                                 |
44 |             tgrpid          |             member              |
   |===============+==========  tgnmem12 ==========+===============|
   |                             |                                 |
```

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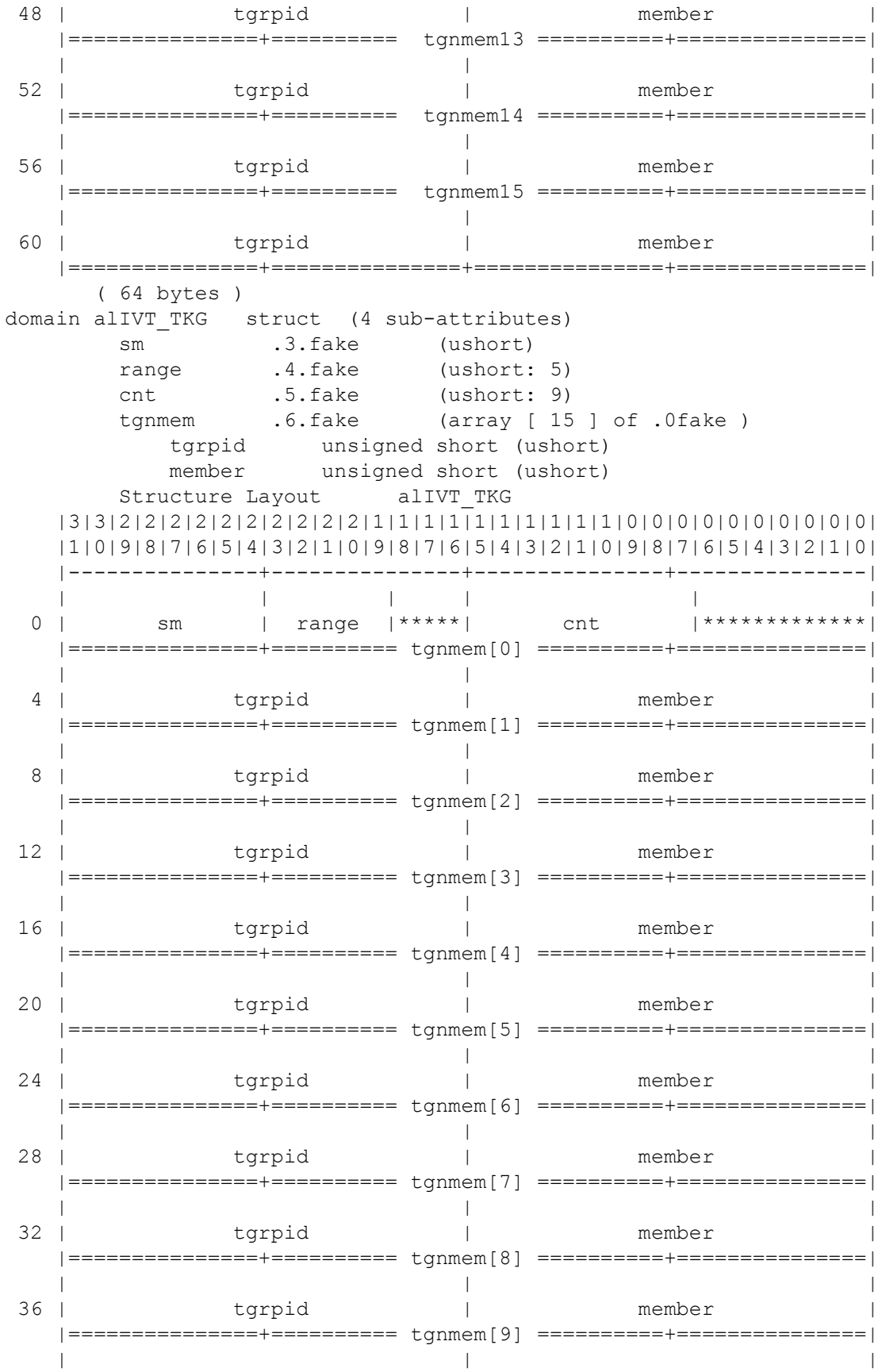


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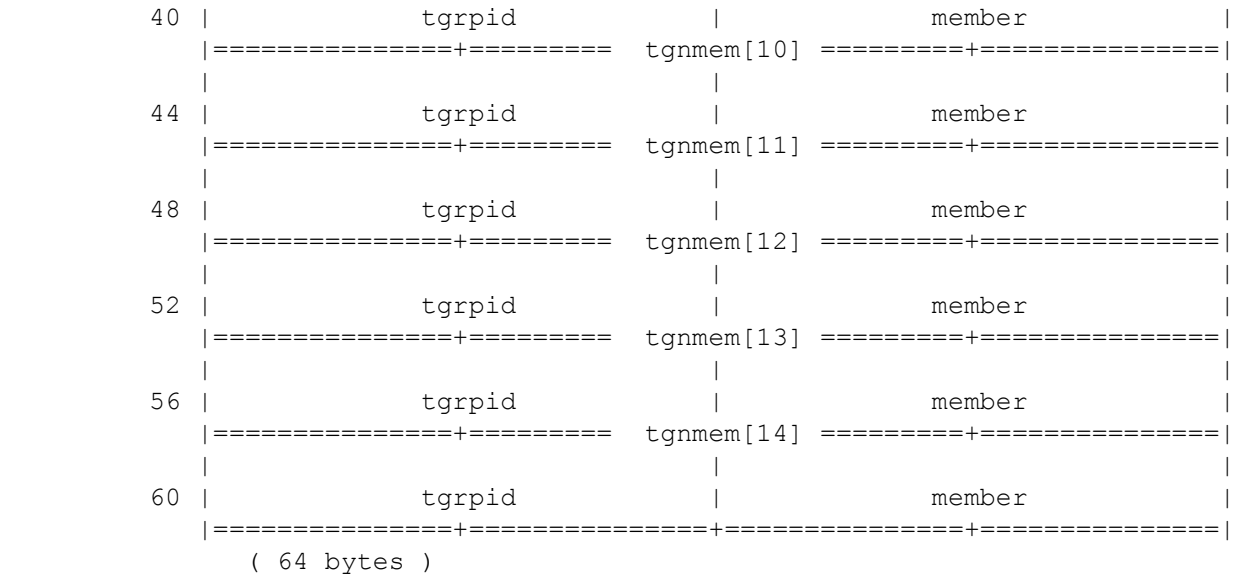


## 4. Population Rules for RLivt_tkg

**Relation Description**
*Autoplex*® intervendor trunk group and member to switching module (SM).

List of intervendor *Autoplex* ® trunk group and member numbers whose port terminates on a particular SM.

A tuple is keyed by the SM and range and consists of up to 15 entries. Each entry contains a single trunk group number and member number combination.

**Attribute: sm**

**Fullname:** Switching module

**Attribute Description** Primary key to the relation.

**Attribute: range**

**Fullname:** Range

**Attribute Description** The range indicates which tuple (set of 15 trunk group/members) to be accessed. Range is a primary key to the relation.

**Attribute: cnt**

**Fullname:** Count

**Attribute Description** Indicates the number of trunk group and member combinations that exist for this SM. The count is kept in the range zero tuple.

**Attribute: tgnmem[*].tgrpid**

**Fullname:** Trunk group identification number

**Attribute Description** Indicates the trunk group number that the member is assigned to.

The '*' in tgnmem[*] has the range of 1 to 15;

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**Attribute: tgnmem[*].member**

**Fullname:** Trunk member number

**Attribute Description** The trunk member number assigned to the trunk.

The '*' in tgnmem[*] has the range of 1 to 15;

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## 2.11 RELATIONS: K

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# KEY_TALK

## 1. Description

This relation provides CAMA operator trunk mate association.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
KEY_TALK    relid = 43    DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     keytrk      DMGPORT      (struct)     <--- key
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     talktrk     DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout   KEY_TALK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+===========  keytrk ===========+===============|
    |                                 |               |               |
  0 |              member             |***************|     module    |
    |===============+=========== talktrk ===========+===============|
    |                                 |               |               |
  4 |              member             |***************|     module    |
    |===============+===============+===============+===============|
       ( 8 bytes )
```

## 4. Population Rules for RLkey_talk

**Relation Description:** keying trunk to talking trunk.

CAMA operator trunk mate association. This relation is not populated for Export. Each tuple in this relation should have a matching one in the RLtalk_key relation.

**Attribute: keytrk**

**Fullname:** keying trunk.

**Attribute Description**keying trunk gport of CAMA operator trunk pair. This is used as the index into the relation. The gport should be a FC_CP_KEYING or FC_TCI_KT class of service (see FC_TRUNK - FC_PORTTYPE). All CAMA operator trunk keying trunk gports should be represented by a tuple in this relation. This check is in RLfc_porttyp.p

**Attribute: keytrk.member**

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**Fullname:** Member.

**Attribute Description**keying trunk Physical Port.

**Attribute: keytrk.module**

**Fullname:** Module.

**Attribute Description**keying trunk Module.

**Attribute: talktrk**

**Fullname:** Talking trunk.

**Attribute Description**Talking trunk gport of a CAMA operator trunk pair. The gport should be a port of FC_CP_TALKING or FC_TCI_TT class of service. No duplications can exist (that is, 1-1 correspondence between keying and talking trunks). Both the talking and keying trunks of a CAMA pair must be on the same SM.

**Attribute: talktrk.member**

**Fullname:** Member.

**Attribute Description**Talking trunk physical port.

**Attribute: talktrk.module**

**Fullname:** Module.

**Attribute Description**Talking trunk module.

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# KEYLIST

## 1. Description

List of hunt control.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
KEYLIST     relid = 150   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     port        DMGPORT      (struct)     <--- key
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     dummy       DMDUMMY      (ushort: 8)
         User, Compacted and Stored Tuple Layout    KEYLIST
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============  port ============+===============|
    |                                |                |               |
  0 |              member            |****************|     module    |
    |===============+===============+================+===============|
    |               |                                                 |
  4 |     dummy     |*************************************************|
    |---------------+---------------+----------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLkeylist

**Relation Description:** List of hunt control.

Information concerning this section is not available at this time.

**Attribute: port**

**Fullname:** group port

**Attribute Description**This attribute is divided into sub-attribute port. member and port.module. Port.module is the IM number and port.member is the port number of scan points assigned to multiline hunt group keys. These keys are group make busy, member make busy, stop hunt, position busy, and random make busy. Note that the random make busy key is not assigned to MUPH or ISAT multiline hunt groups. The position busy key is only assigned to MUPH multiline hunt groups. These should be established with the developer or office. Also include any member make busy scan points for individual lines.

**Attribute: port.member**

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**Fullname:** port member

**Attribute Description**Information concerning this section is not available at this time.

**Attribute: port.module**

**Fullname:** port module

**Attribute Description**Information concerning this section is not available at this time.

**Attribute: dummy**

**Fullname:** dummy field

**Attribute Description**Information concerning this section is not available at this time.

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## 2.12 RELATIONS: L

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# LAB6_PCI

## 1. Description

This relation translates a CCIS6 link pair into a Point Code Index (PCI). PCIs are arbitrary indexes used to save AM memory. Each trunk in the switch having a CCIS6 signaling type must have a relation in the AM to translate the CCIS6 routing label to a global port. Since a particular link pair (13 bits) appears many times in an office, it is converted to a PCI (8 bits) to save space. PCIs are also used for system 7 CCS trunks as described in the RLlab7_pci relation. Tuples in this relation are inserted, updated, or deleted based on information contained on the Trunk Group and Member form. Any transaction on this relation should result in a corresponding transaction on mirror relation, RLpci6_lab. Note, however, that only primary links appear in this relation while both the primary and mate link appear in RLpci6_lab.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTATIC |
| trigger function | CClab6trig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| optimize | DBYES |
| ks key store | AUTO |

## 3. Field Layout

```
LAB6_PCI    relid = 710   DBSTATIC   DBACC_CIND  DBPRAM    LR      NULL
 (a) sl_vlink    DMSL_VLINK   (ushort: 3) <--- key, not stored
     sl_group    DMSL_GROUP   (ushort: 6) <--- key, not stored
     sl_mem      DMSL_MEM     (ushort: 4) <--- key, not stored
     trk_cntr    DMCOUNT      (ushort)
     pci         DMPCIDX      (ushort: 10)
         User and Compacted Tuple Layout   LAB6_PCI
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |     |           |       |                                     |
  0 |  a  |  sl_group | sl_mem|*************************************|
    |---------------+---------------+---------------+---------------|
    |                               |                   |           |
  4 |            trk_cntr           |        pci        |***********|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )

     trk_cntr    DMCOUNT      (ushort)
     pci         DMPCIDX      (ushort: 10)
           Stored Tuple Layout     LAB6_PCI
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                   |           |
  0 |            trk_cntr           |        pci        |***********|
    |---------------+---------------+---------------+---------------|
```

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( 4 bytes )

## 4. Population rules for RLlab6_pci

### Relation Description

CCIS6 Routing Label to Point Code Index Relation
This relation translates a CCIS6 link pair into
a Point Code Index (PCI). (PCIs are arbitrary
indexes used to save AM memory. Each trunk in the
switch having a CCIS6 signaling type must have
a relation in the AM to translate the CCIS6
routing label to a global port. Since a particular
link pair (13 bits) appears many times in an
office, it is converted to a PCI (8 bits) to save
space. PCIs are also used for system 7 CCS trunks
as described in the RLlab7_pci relation.) Tuples
in this relation are inserted or deleted
based on information contained on the Trunk Group
and Member form.

NOTE !! Any transaction on this relation
should result in a corresponding transaction on
mirror relation, RLpci6_lab.
Note, that
both the primary and mate links appear in this relation.
CCIS 6 band and member numbers are assigned by CNAC ,
for the network.

For other North American Networks, the assignment
is made by local telephone company operating
instructions. A band and label and virtual link uniquely
defines a trunk. Relation RLlab6prt is used to obtain the port
( same attribute as port in RLfc_trunk).

**Attribute:**
sl_vlink
**Fullname:**
Signaling virtual link
**Attribute Description:**
See RLlab6prt.sl_vlink

**Attribute:**
sl_group
**Fullname:**
Signaling link group
**Attribute Description:**
See RLlab6prt.sl_group

**Attribute:**
sl_mem

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**Fullname:**
Signaling link group member
**Attribute Description:**
See RLlab6prt.sl_mem

**Attribute:**
pci
**Fullname:**
Point Code Index
**Attribute Description:**
PCI can range from 1 to 255 and provides a unique internal representation of a CCIS6 link pair. A link pair consists of two links, one designated as the primary link, the other the mate link. (A link consists of a unique combination of sl_vlink, sl_group, and sl_mem). A PCI is assigned for all new instances of a CCIS6 link pair. A link can only belong to one link pair. This means that once a primary and mate link have been specified together, then neither one can be used in combination with any other link.
PCIs are generated by using the RLfacid relation. (facid = 0, class = FAC_CCS, subclass = SCL_NULL see RLfacid for a description of the link list maintained for each class.
Note: The PCIs are only the facid field and for CCS are limited to a range of 1 to 255. PCIs must never exceed 255 so checks must be made against the index retrieved using RLfacid since the RLfacid indexes are 16 bits. PCIs are generated sequentially and must be unique across all CCIS6, ISUP7, and/or TUP7 trunks in an office. (That is, system 7 PCIs come from the same PCI pool as system 6 PCIs - see RLlab7_pci.)
PCIs are deleted when a trunk member is deleted and it is the last trunk to use the PCI (that is, trk_cntr attribute in this relation is equal to 1). Again, the RLfacids master for the CCS class is used to give back the PCI.

**Attribute:**
trk_cntr
**Fullname:**
Trunk counter
**Attribute Description:**
Trunk counter. This is an integer counter of the number of CCIS6 trunks currently using this link pair (or pci). This counter must be incremented/ decremented on every insertion/deletion of a CCIS6 trunk. Since 8192 trunks can be supported by a link pair, this counter must never exceed 4096.

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NOTE: Since two tuples (that is, one primary link and one mate link) exist in this relation for each pci, this counter must be updated for each tuple. The value of trk_cntr for each tuple of a link pair, primary and mate tuple, must be identical.

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# LAB6PRT

## 1. Description

Each incoming CCS system 6 message contains a routing label which uniquely identifies the CCS trunk associated with the message. This label consists of a signaling link group, a signaling link member, a signaling virtual link, a band, and a band member. RLlab6prt is used by CCS software to translate this routing label to a global port. This relation should only be populated for domestic applications. A tuple must exist for every trunk with a signaling type of DBCCIS6. Tuples are inserted, deleted, or updated based on information on the Trunk Group and Member form. Any transaction on this relation should also result in a corresponding transaction on the mirror relation, RLprt6lab.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTATIC |
| head table size | 8192 |
| data page size | 256 |
| intermediate page | 512 |
| page level | 3 |
| ks key store option | DBNO |
| trigger function | CClab6prt |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
LAB6PRT     relid = 645   DBSTATIC   DBACC_CIND  DBPRAM    LR      NULL
     sl_group    DMSL_GROUP   (ushort: 6)  <--- key, not stored
     sl_mem      DMSL_MEM     (ushort: 4)  <--- key, not stored
 (a) sl_vlink    DMSL_VLINK   (ushort: 3)  <--- key, not stored
     band        DMBAND       (ushort: 9)  <--- key, not stored
 (b) bmem_num    DMBMEM_NUM   (ushort: 4)  <--- key, not stored
     gport       DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User and Compacted Tuple Layout    LAB6PRT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |           |       |     |     |                 |       |     |
  0 |  sl_group | sl_mem|  a  |*****|       band      |   b   |*****|
    |===============+============ gport ============+===============|
    |                                 |                |               |
  4 |              member             |****************|     module    |
    |===============+===============+===============+===============|
       ( 8 bytes )
         gport       DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
           Stored Tuple Layout      LAB6PRT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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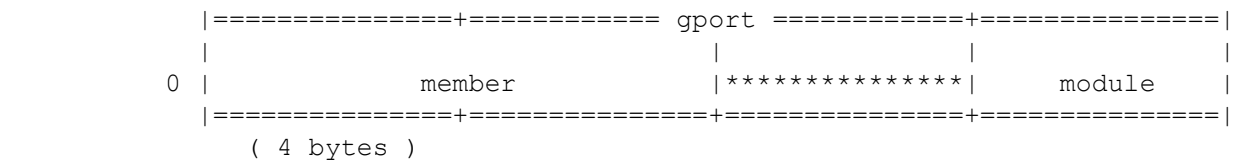


## 4. Population Rules for RLlab6prt

**Relation Description**
CCIS6 routing label to port relation.

Each incoming CCS system 6 message contains a routing label which uniquely identifies the CCS trunk associated with the message. This label consists of a signaling link group, a signaling link member, a signaling virtual link, a band, and a band member. RLlab6prt is used by the software to translate this routing label to a global port. This relation is mainly used by the ccs subsystem.

A tuple exists for both the primary link and for the secondary (mate) link. The global port must be determined from either the mate or primary link along with the band and label. Two tuples must exist for every trunk with a signaling type of DBCCIS6.

A trunk block is defined as a sequence of trunk group members which are all in the same trunk group and whose member numbers fall in the range 0-15, 16-31, 32-47, 48-63, etc.

When the combination of band number and link pair is specified for 1 trunk in a trunk block, then both the primary and mate links and the band for all additional trunks in that block must be identical to that of the first trunk in the block.

There is no required relationship between each trunk block within a trunk group. In other words, each trunk block within a group can use either the same or a different link pair. If the same link pair is used by 2 trunk blocks, then the band number must be different. If a different link pair is used, then the band number can be the same, but may also be different.

**Attribute: sl_group**

**Fullname:** Signaling link group

**Attribute Description** This refers to the group of the CNI signaling link associated with this trunk. Signaling links in CCIS6 are associated in a link pair for reliability, thus two tuples are present in this relation for each CCIS6 port. Messages destined for a port will (usually) arrive via the same signaling link. However, if a signaling link is congested or has failed, the other link will carry messages for the port.

**Attribute: sl_mem**

**Fullname:** Signaling link member

**Attribute Description** Signaling link member within a signaling link group. Supplied by CNAC (RBOC).

**Attribute: sl_vlink**

**Fullname:** Signaling link virtual link

**Attribute Description** When embedded CCIS is used (that is, CCIS6 messages passing over a 56 Kbs link), the physical link is divided into eight virtual links. This attribute specifies the virtual link. If the link pair is a 4.8 Kbs link, this value should be set to zero. This is supplied by CNAC

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(RBOC).

**Attribute: band**

**Fullname:** Band

**Attribute Description** Each CCIS6 trunk which uses a particular link (as previously specified) is identified by a band and a band member. (Very similar to trunk group and trunk group member except a band can only have 16 members.) The band attribute is provided by CNAC (RBOC).

**Attribute: bmem_num**

**Fullname:** Band member number

**Attribute Description** The member number within the band associated with the port. Odd band member numbers are assigned primary links, even member numbers are assigned mate.

**Attribute: gport**

**Fullname:** port

**Attribute Description** Port is divided into sub-attributes member and module. This is the same attribute as RLfc_trunk.port.

**Attribute: gport.member**

**Fullname:** member associated with the port

**Attribute Description** Member is assigned a unique number starting with zero.

**Attribute: gport.module**

**Fullname:** Module (Switching Module number)

**Attribute Description** The module number is the same as RLfc_trunk.port.module.

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# LAB7_PCI

## 1. Description

This relation translates a CCS system 7 Destination/Origination Point Code and Network combination into a Point Code Index (PCI). (PCIS are arbitrary indexes used to save AM memory. Each trunk in the switch having a DBISUP7 (domestic only) or DBTUP7 (export only) signaling type must have a relation in the AM to translate the system 7 routing label to a global port. Since a particular OPC/DPC/network combination (49 bits) appears many times in an office, it is converted to a PCI (8 bits) to save space. PCIs are also used by CCIS6 trunks as described in the RLlab6_pci relation.) Tuples in this relation are inserted, deleted, or updated based on information contained on the Trunk Group form. Any transaction on this relation should result in a corresponding transaction on the mirror relation, RLpci7_lab.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1023 |
| expected tuples in relation | 28 |
| density | 63 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LRFR |
| relation type | DBSTATIC |
| trigger function | CClab7trig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
LAB7_PCI    relid = 711   DBSTATIC   DBACC_HASH  DBPRAM    LRFR    NULL


    dpc         DMPT_CODE    (ulong: 24)       <--- key
 (a) network    DMNETWORK    (enum: 1) <--- key
    opc         DMPT_CODE    (ulong: 24)       <--- key
    psu_mod     DMMODULE     (ushort: 8)
    tg_cntr     DMCOUNT      (ushort)
    pci         DMPCIDX      (ushort: 10)
        User, Compacted and Stored Tuple Layout   LAB7_PCI
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                               | |             |
 0 |                      dpc                      |a|*************|
   |---------------+---------------+---------------+---------------|
   |                                               |               |
 4 |                      opc                      |    psu_mod    |
   |---------------+---------------+---------------+---------------|
   |                               |                   |           |
 8 |            tg_cntr            |        pci        |***********|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population rules for RLlab7_pci

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**Relation Description**

Destination/Origination Point Code and Network to
Point Code Index conversion

This relation translates a CCS system 7 Destination/Origination
Point Code and Network combination into a Point Code Index (PCI).

"PCIs are arbitrary indexes used to save AM memory.
Each trunk in the switch having a DBISUP7
(domestic only) signaling type must have a
relation in the AM to translate the system 7
routing label to a global port.
Since a particular OPC/DPC/Network combination (49 bits)
appears many times in an office, it is converted
to a PCI (8 bits) to save space. PCIs are also
used by CCIS6 trunks as described in the
RLlab6_pci relation"

**Attribute:**

dpc

**Fullname:**

Destination Point Code

**Attribute Description:**

The DPC indicates the signaling point for the far-end
office, except for inter-module trunks which set the DPC
equal to a pseudo point code value that indicates the SM
numbers on which the inter-module trunk terminates (that
is, near-end SM and far-end SM).

See the poprules in RLrt_trkg.R for the rules describing the
format of dpc (RLrt_trkg.dpc).

**Attribute:**

opc

**Fullname:**

Origination Point Code

**Attribute Description:**

The OPC indicates the signaling point which is assigned to this
office. It has the same layout as the DPC and will be assigned in
the same manner.

See the poprules in RLrt_trkg.R for the rules describing the
format of opc (RLrt_trkg.opc).

**Attribute:**

network

**Fullname:**

Standardization Sector (SS7) (formerly CCITT7) Network to
which the PCI belongs.

**Attribute Description:**

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The network to which the dpc/opc pair belongs.

Note: Only the NATIONAL network is allowed.

**Attribute:**
pci
**Fullname:**
Point Code Index
**Attribute Description:**
PCI can range from 1 to 1023 and provides a unique internal representation of a system 7 OPC/DPC/Network combination. (PCIs are also shared with CCIS6 trunks. That is, system 7 PCIs are generated from the same pool as system 6 PCIs - see RLlab6pci.)
System 7 PCIs are generated whenever a new combination of OPC, DPC and Network are inserted on the Trunk Group form. The OPC, DPC and Network are used to read this relation. If there is no existing tuple, then a new tuple is inserted with the PCI generated by using the RLfacid relation. (facid = 0, class = FAC_CCS, subclass = SCL_NULL - see RLfacid for rules on how arbitrary indexes are generated or deleted.)
PCIs must never exceed 1023 so checks must be made against the index retrieved using RLfacid since RLfacid indexes are 16 bits. PCIs are deleted when the last trunk group to use a PCI is deleted (that is, the tg_cntr attribute in this relation equals 1 and a trunk group is deleted). RLfacids is used to give back the PCI.

**Attribute:**
tg_cntr
**Fullname:**
Trunk Group counter
**Attribute Description:**
This is an integer counter of the number of system 7 trunk groups (DBISUP7 or DBTUP7 signaling types) currently using this OPC/DPC/Network combination. This counter must be incremented/decremented on every insertion/ deletion of a system 7 trunk group.

**Attribute:**
psu_mod
**Fullname:**
psu_mod
**Attribute Description:**
This attribute identifies whether the CNI or a GSM is used for CCS signaling. The value of psu_mod is

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```
        set to zero if the CNI is to be used for CCS signaling;
        otherwise psu_mod is set to the GSM number for PSU
        based CCS signaling.
```

**Defines:**

```
        "db/DMaliasopc.h"
```

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# LAB7_SM

## 1. Description

This relation identifies the SM number to which the Standardization Sector (SS7) (formerly CCITT7) trunk terminates. It is used for National and International SS7 Protocols. RLlab7_sm is the ISUP incoming routing data on the SS7 Global SM. It contains one tuple for each trunk that is signaled for by that GSM. It is keyed by a CCS trunk index, which is mapped to the PCI, CIC, and terminating SM of the trunk. The data from RLlab7_sm is put into a PHDA table in the ICR which is hashed with a key of PCI+CIC. The ICR ODR is pumped to the PHs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 24192 |
| expected number of tuples | 140 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CClab7_sm |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
LAB7_SM     relid = 2365  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     trunki      DMUSHORT     (ushort)  <--- key
     cic         DMCIC        (ushort: 14)
     pci         DMPCIDX      (ushort: 10)
     sm          DMUNL8       (ulong: 8)
         User, Compacted and Stored Tuple Layout    LAB7_SM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |   |
  0 |              trunki           |            cic                |***|
    |---------------+---------------+---------------+---------------|
    |                   |               |                           |
  4 |        pci        |       sm      |***************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLlab7_sm

### Relation Description

```
        SS7 routing label switching module

        This relation identifies the SM number to which the trunk
        terminates.  It is used for National and International SS7
        Protocols.  It translates the destination point code index (DPCI)
        and circuit identification code (CIC) to the SM number.
```

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**Attribute:**
trunki
**Fullname:**
Trunk index
**Attribute Description:**
Trunk index that is a unique identifier to compact the database.

**Attribute:**
sm
**Fullname:**
Switching module
**Attribute Description:**
Identifies the SM on which the trunk terminates

**Attribute:**
cic
**Fullname:**
Circuit identification code
**Attribute Description:**
The CIC identifies the circuit (trunk) which has a direct connection between the DPC and this office.

**Attribute:**
pci
**Fullname:**
Point Code Index
**Attribute Description:**
The PCI is a trunk related Point Code Index, for the far-end of the trunk.

**Defines:**
"db/DMaliasopc.h"

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# LAB7PRT

## 1. Description

Each incoming CCS system 7 (seven) message contains a routing label which uniquely identifies the CCS trunk associated with the message. This routing label consists of a Destination Point Code (DPC), an Origination Point Code (OPC), and Circuit Identification Code (CIC). The RLlab7prt is used by SM CCS software to translate this routing label to a *5ESS*®-2000 switch global port. A tuple must exist for each trunk in a SM with a signaling type of either DBISUP7 (domestic only) or DBTUP7 (export only). Tuples are inserted, updated, or deleted based on information given on the Trunk Group and Member form. The CLCI code TRK ID field is used for the CIC. The OPC, DPC are retrieved from trunk group information. Any transaction on this relation should have a corresponding transaction on the RLprt7lab relation which mirrors this relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 24192 |
| expected number of tuples | 182 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
LAB7PRT     relid = 646   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     dpc          DMPT_CODE    (ulong: 24)     <--- key
     opc          DMPT_CODE    (ulong: 24)     <--- key
     sls          DMUCHAR      (uchar)
     cic          DMCIC        (ushort: 14)     <--- key
 (a) network      DMNETWORK    (enum: 1)     <--- key
     pci          DMPCIDX      (ushort: 10)
     gport        DMGPORT      (struct)
         member       DMPORT       (ushort)
         module       DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout    LAB7PRT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                      dpc                      |***************|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  4 |                      opc                      |      sls      |
    |---------------+---------------+---------------+---------------|
    |                             | | |                   |           |
  8 |            cic              |a|*|        pci        |***********|
    |===============+============ gport ============+===============|
    |                               |               |               |
 12 |             member            |***************|     module    |
    |===============+===============+===============+===============|
       ( 16 bytes )
```

## 4. Population Rules for RLlab7prt

### Relation Description

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CCS7 routing label to global port relation

Each incoming CCS system 7 message contains a routing label which uniquely identifies the CCS trunk associated with the message. This routing label consists of a Destination Point Code (DPC), an Origination Point Code (OPC), and Circuit Identification Code (CIC). The RLlab7prt is used by SM CCS software to translate this routing label to a *5ESS®*-2000 switch global port. This relation is mainly used by the ccs subsystem.

**Attribute: dpc**

**Fullname:** Destination point code

**Attribute Description** The DPC indicates the signaling point for the far-end office, except for inter-module trunks which set the DPC equal to a pseudo point code value that indicates the SM numbers on which the inter-module trunk terminates (that is, near-end SM and far-end SM).

See the poprules in RLrt_trkg.R for the rules describing the format of dpc (RLrt_trkg.dpc) in the *5ESS®-2000 Switch Population Rules Language Data Manual* (235-600-123).

**Attribute: opc**

**Fullname:** Origination point code

**Attribute Description** The OPC indicates the signaling point which is assigned to this office. It has the same layout as the DPC and will be assigned in the same manner.

See the poprules in RLrt_trkg.R for the rules describing the format of opc (RLrt_trkg.opc) in the *5ESS®-2000 Switch Population Rules Language Data Manual* (235-600-123).

**Attribute: network**

**Fullname:** Network.

**Attribute Description** This attribute is used to indicate the network to which the standardization sector Telecommunicaton Standarization Sector (ITU-TS) routing label refers.

**Attribute: pci**

**Fullname:** Point Code Index

**Attribute Description** This attribute represents the point code index assigned to this DPC/OPC/network combination. The point code index is derived as part of the population rules for RLlab7_pci.

**Attribute: cic**

**Fullname:** Circuit identification code

**Attribute Description** The CIC uniquely identifies the circuit (trunk) among those directly interconnecting the DPC and OPC. This number is assigned by CNAC or the RBOC. The value will not be assigned by CNAC for other (RBOC, etc) networks.

For export networks, CIC is an arbitrary number from 0 to 4095.

**Attribute: gport**

**Fullname:** Global port

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**Attribute Description** A *5ESS*®-2000 switch global port in an office. It consists of the SM number and the member. The DPC, OPC, network and CIC are used by this relation to translate the external CCS trunk representation into a *5ESS*®-2000 switch trunk appearance - the SM number and the trunk member number on the SM. This is the same attribute as port in the RLfc_trunk relation.

**Attribute: gport.member**

**Fullname:** Port member

**Attribute Description** The member number of the trunk on an SM.

**Attribute: gport.module**

**Fullname:** SM module number

**Attribute Description** Switching module that the trunk is associated with.

**Attribute: sls**

**Fullname:** Signaling link selection

**Attribute Description** For a given T1 facility which is marked as Fractional DS1 capable, the Signaling Link Selection(SLS) in the message routing label must be the same for all messages sent over any trunk on the T1 facility. The algorithm used to compute a SLS value is such that it achieves an approximately uniform distribution of SLS numbers over a large number of T1 facilities. The SLS value identifies the path link for all signaling messages for each trunk on a single T1 facility. The SLS value must be the same for all trunk group members that exist on a particular facility.

For wideband capable trunk groups which have members on a DNU, the SLS in the routing label is generated the same for all messages sent over any trunk of the trunk group.

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# LAB7SM

## 1. Description

It is used for the National and International Standardization Sector (SS7) protocols. It translates the normalized Destination Point Code (DPCI) and Circuit Identification Code (CIC) to the SM number, port and protocol.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 24192 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CClab7sm |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
LAB7SM      relid = 2366  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     port         DMPORT       (ushort)
     cic          DMCIC        (ushort: 14)     <--- key
     dpci         DMDPCIL      (ulong: 11)     <--- key
     sm           DMUNL8       (ulong: 8)
     protocol     DMDIGSIG     (enum: 5)
         User, Compacted and Stored Tuple Layout LAB7SM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             |   |
  0 |              port               |             cic             |***|
    |---------------+---------------+---------------+---------------|
    |                       |               |         |               |
  4 |         dpci          |       sm      | protocol|***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLlab7sm

**Relation Description**
SS7 routing label switching module

This relation identifies the SM number on which the trunk terminates. It is used for National and International SS7 Protocols. It translates the normalized destination point code (DPCI) and circuit identification code (CIC) to the sm (such as the SM number), and also contains the port and the protocol. This relation is only populated on the Global RM of a (multi-module ) RSM supporting SS7.

**Attribute: dpci**

**Fullname:** Destination point code index

**Attribute Description** Destination Point Code. The DPC indicates the signaling point for the far end office.

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**Attribute: cic**

**Fullname:** Circuit Identification Code

**Attribute Description** The Circuit Identification Code uniquely identifies a trunk linking this Local Signaling Point Code and a given Destination Point Code.

**Attribute: port**

**Fullname:** Port

**Attribute Description** Identifies the port on which the trunk terminates.

**Attribute: protocol**

**Fullname:** Protocol

**Attribute Description** Identifies the signaling protocol used for this trunk.

**Attribute: sm**

**Fullname:** Switching module

**Attribute Description** Identifies the SM on which the trunk terminates.

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# LAESCASE

## 1. Description

This relation contains the Lawfully Authorized Electronic Surveillance (LAES) case information. This relation represents a specific case. NOTE: See also RLname2id.G

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 500 |
| expected tuples in relation | 20 |
| access type | DBACC_CIND |
| distribution | LPFR |
| application | RCMAP |
| relation type | DBSTATIC |
| memory type | DBPRAM |
| ks key store | AUTO |
| trigger function | RTlaescase |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
LAESCASE    relid = 3177  DBSTATIC   DBACC_CIND  DBPRAM    LPFR    RCMAP


     laescid     DMCASEMAX    (ushort: 9)       <--- key, not stored
     laescaseid  DMCHAR30     (array [ 30 ] of char )
     memberno    DMMEMBER     (ushort)
     cdcport     DMUSHORT     (ushort)
     dpktport    DMUSHORT     (ushort)
     ppb1port    DMUSHORT     (ushort)
     ppb2port    DMUSHORT     (ushort)
     odb1port    DMUSHORT     (ushort)
     odb2port    DMUSHORT     (ushort)
     defaultport  DMUSHORT     (ushort)
     tgno        DMGRUPNM     (ushort: 13)
(a)  adminstate  DMCALADMIN   (enum: 2)
     lprofidx    DMCASEMAX    (ushort: 9)
     numofmem    DMUNS7       (ushort: 7)
     caseindex   DMCASEMAX    (ushort: 9)
     cdcip       DMULONG      (ulong)
     dpktip      DMULONG      (ulong)
     ppb1ip      DMULONG      (ulong)
     ppb2ip      DMULONG      (ulong)
     odb1ip      DMULONG      (ulong)
     odb2ip      DMULONG      (ulong)
     defaultip   DMULONG      (ulong)
         User and Compacted Tuple Layout   LAESCASE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                 |                                             |
 0  |     laescid     |*********************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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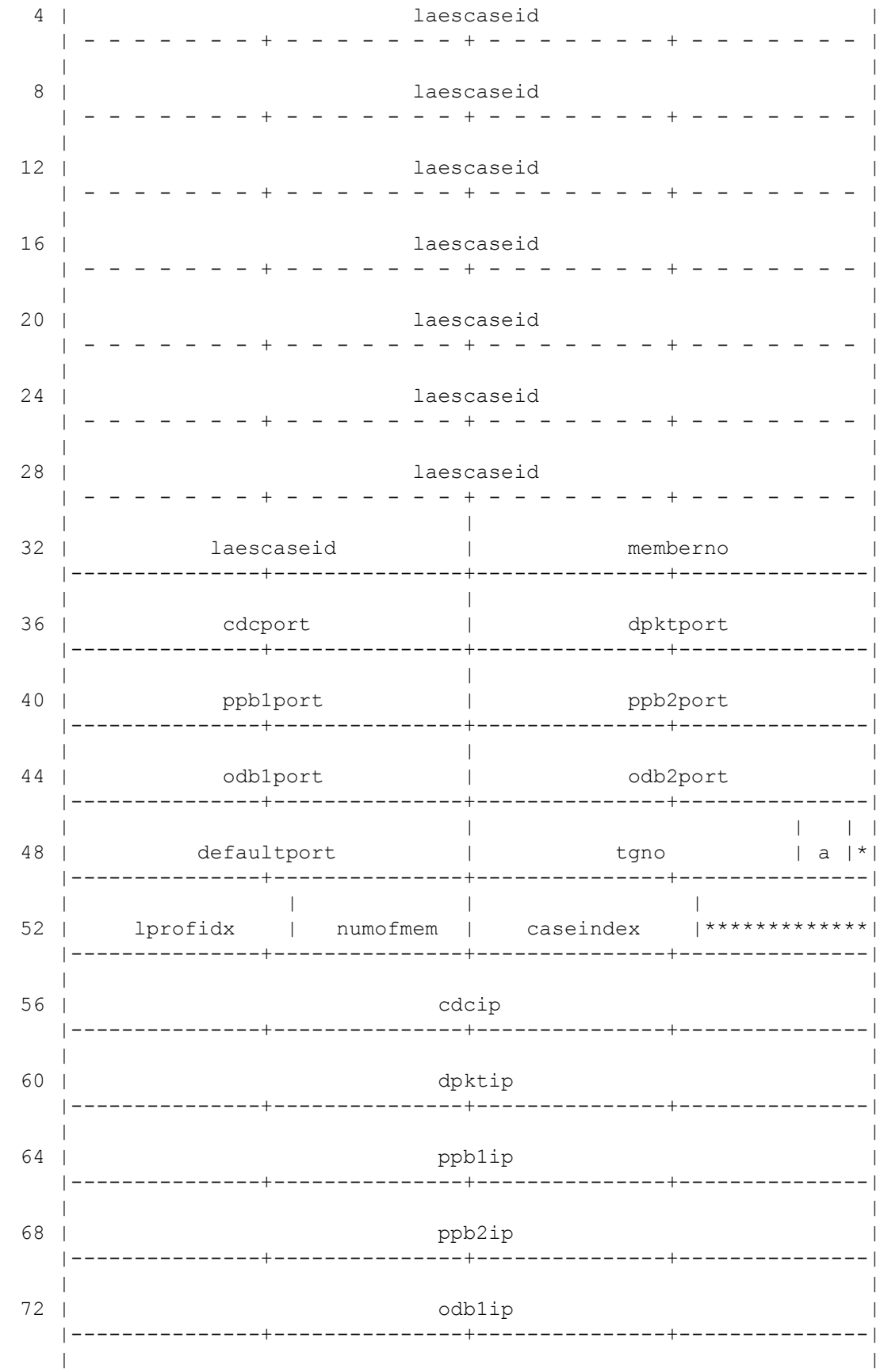
laescaseid
laescaseid
laescaseid
laescaseid
laescaseid
laescaseid
laescaseid
laescaseid
memberno
cdcport
dpktport
ppb1port
ppb2port
odb1port
odb2port
a
defaultport
tgno
lprofidx
numofmem
caseindex
cdcip
dpktip
ppb1ip
ppb2ip
odb1ip

```
 76 |                            odb2ip                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 80 |                          defaultip                            |
    |---------------+---------------+---------------+---------------|
      ( 84 bytes )


    laescaseid  DMCHAR30     (array [ 30 ] of char )
    memberno    DMMEMBER     (ushort)
    cdcport     DMUSHORT     (ushort)
    dpktport    DMUSHORT     (ushort)
    ppb1port    DMUSHORT     (ushort)
    ppb2port    DMUSHORT     (ushort)
    odb1port    DMUSHORT     (ushort)
    odb2port    DMUSHORT     (ushort)
    defaultport  DMUSHORT     (ushort)
    tgno        DMGRUPNM     (ushort: 13)
(a) adminstate  DMCALADMIN   (enum: 2)
    lprofidx    DMCASEMAX    (ushort: 9)
    numofmem    DMUNS7       (ushort: 7)
    caseindex   DMCASEMAX    (ushort: 9)
    cdcip       DMULONG      (ulong)
    dpktip      DMULONG      (ulong)
    ppb1ip      DMULONG      (ulong)
    ppb2ip      DMULONG      (ulong)
    odb1ip      DMULONG      (ulong)
    odb2ip      DMULONG      (ulong)
    defaultip   DMULONG      (ulong)
          Stored Tuple Layout     LAESCASE
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                          laescaseid                           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 4 |                          laescaseid                           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 8 |                          laescaseid                           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
12 |                          laescaseid                           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
16 |                          laescaseid                           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
20 |                          laescaseid                           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
24 |                          laescaseid                           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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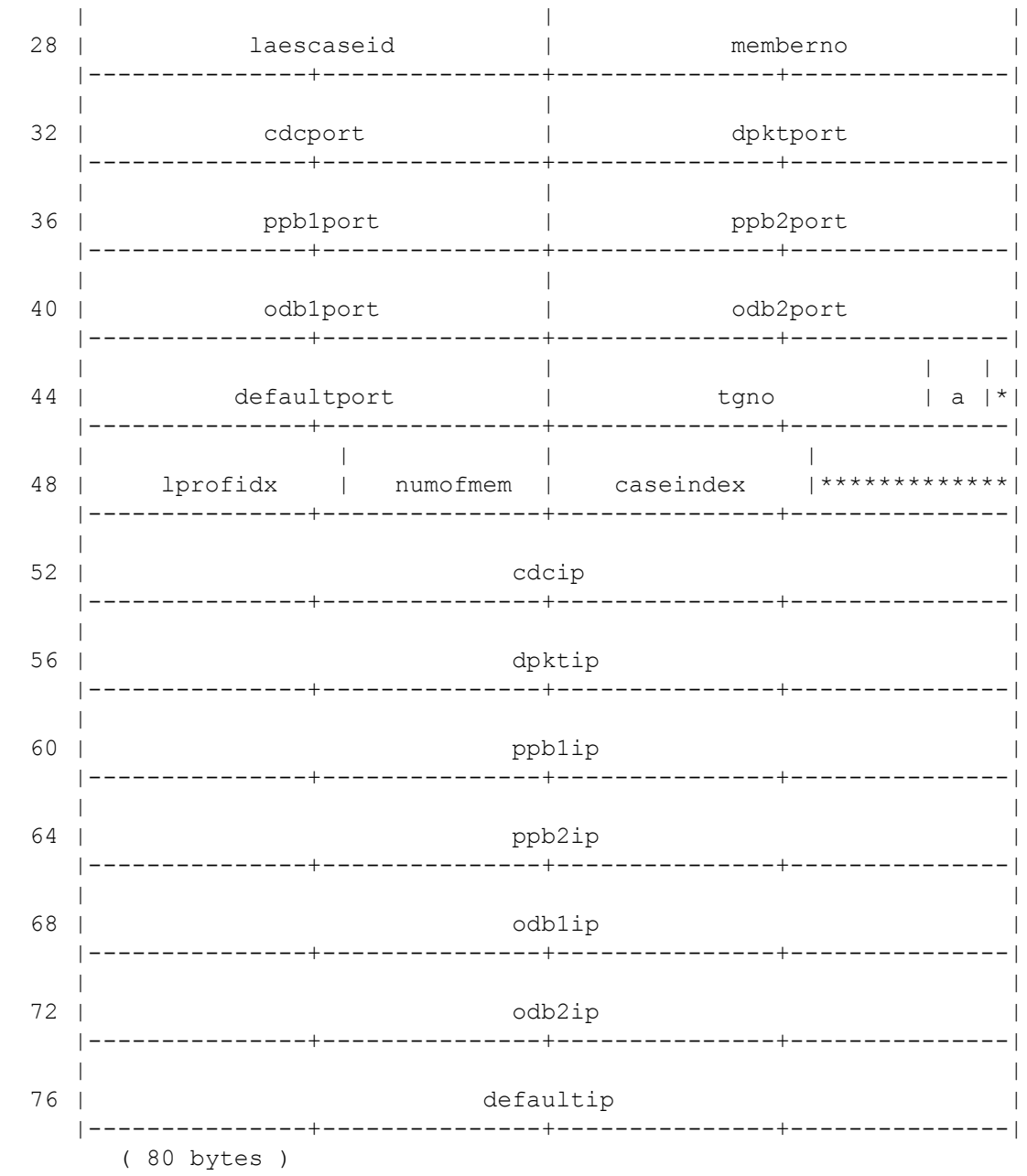


## 4. Population rules for RLlaescase

**Relation Description**

Lawfully Authorized Electronic Surveillance Case

The new Communications Assistance for Law Enforcement Act (CALEA) Lawfully Authorized Electronic Surveillance (LAES) Case relation represents a specific surveillance.

**Attribute:**

laescid

**Fullname:**

Lawfully Authorized Electronic Surveillance (LAES) Case Index

**Attribute Description:**

Lawfully Authorized Electronic Surveillance (LAES) Case Index. This number is generated by RC when the case is inserted in the LAESCASE View.

**Attribute:**

laescaseid

**Fullname:**

Lawfully Authorized Electronic Surveillance (LAES) ID (Name)

**Attribute Description:**

Name assigned by the Law Enforcement Agency (LEA) when provisioning a case

**Attribute:**

adminstate

**Fullname:**

Administrative State

**Attribute Description:**

Defines the operational state of a surveillance.

**Attribute:**

lprofidx

**Fullname:**

Lawfully Authorized Electronic Surveillance (LAES) profile index

**Attribute Description:**

Associates a LAES profile name with the subject under surveillance. The profile specifies what data about the subject can be transmitted.

**Attribute:**

caseindex

**Fullname:**

Case Index

**Attribute Description:**

Index into the RLCASE_IDX relation

**Attribute:**

cdcip

**Fullname:**

Call Data Channel (CDC) destination Internet Protocol (IP) Address

**Attribute Description:**

Call Data Channel (CDC) destination TCPIP Address

**Attribute:**

cdcport

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**Fullname:**
Call Data Channel (CDC) Internet Port (IP)
**Attribute Description:**
Call Data Channel (CDC) TCP Port

**Attribute:**
dpktip
**Fullname:**
Packet Data Channel (PDC) D Packet service destination IP address
**Attribute Description:**
Packet Data Channel (PDC) D Packet service destination IP address

**Attribute:**
dpktport
**Fullname:**
Packet Data Channel (PDC) D Packet service TCP port
**Attribute Description:**
Packet Data Channel (PDC) D Packet service TCP port

**Attribute:**
ppb1ip
**Fullname:**
Permanent packet B1 service destination IP address
**Attribute Description:**
Permanent packet B1 service destination IP address

**Attribute:**
ppb1port
**Fullname:**
Permanent packet B1 service TCP port
**Attribute Description:**
Permanent packet B1 service TCP port

**Attribute:**
ppb2ip
**Fullname:**
Permanent packet B2 service destination IP address
**Attribute Description:**
Permanent packet B2 service destination IP address

**Attribute:**
ppb2port
**Fullname:**
Permanent packet B2 service TCP port
**Attribute Description:**
Permanent packet B2 service TCP port

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**Attribute:**
odb1ip
**Fullname:**
Packet Data Channel (PDC) 1st On Demand B service destination IP address
**Attribute Description:**
Packet Data Channel (PDC) 1st On Demand B service destination IP address

**Attribute:**
odb1port
**Fullname:**
Packet Data Channel (PDC) 1st On Demand B service TCP port
**Attribute Description:**
Packet Data Channel (PDC) 1st On Demand B service TCP port

**Attribute:**
odb2ip
**Fullname:**
Packet Data Channel (PDC) 2nd On Demand B service destination IP address
**Attribute Description:**
Packet Data Channel (PDC) 2nd On Demand B service destination IP address

**Attribute:**
odb2port
**Fullname:**
Packet Data Channel (PDC) 2nd On Demand B service TCP port
**Attribute Description:**
Packet Data Channel (PDC) 2nd On Demand B service TCP port

**Attribute:**
defaultip
**Fullname:**
Default Packet Data Channel (PDC) destination IP address
**Attribute Description:**
Default Packet Data Channel (PDC) destination IP address

**Attribute:**
defaultport
**Fullname:**
Default Packet Data Channel (PDC) service TCP port
**Attribute Description:**
Default Packet Data Channel (PDC) service TCP port

**Attribute:**
tgno
**Fullname:**
Trunk Group Number

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**Attribute Description:**
A valid trunk group associated with a Call Content Channel (CCC) which along with a trunk group member number and the number of members identifies a set of CCCs.

**Attribute:**
memberno
**Fullname:**
(Trunk Group) Member Number
**Attribute Description:**
Identifies the first member number in the trunk group used as a CCC

**Attribute:**
numofmem
**Fullname:**
Number of (Trunk Group) Members
**Attribute Description:**
The number of trunk group members that are assigned to a subject.

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# LAESPROF

## 1. Description

This relation contains the Lawfully Authorized Electronic Surveillance (LAES) Profile. This relation specifies which message parameters and content are to be allowed. NOTE: See also RLnm2prid.G

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 500 |
| expected tuples in relation | 20 |
| access type | DBACC_CIND |
| distribution | LPFR |
| application | RCMAP |
| relation type | DBSTATIC |
| memory type | DBPRAM |
| ks key store | DBYES |

## 3. Field Layout

```
LAESPROF    relid = 3178  DBSTATIC   DBACC_CIND  DBPRAM    LPFR    RCMAP


    answer      DMHEX16      (ushort)
    ccclose     DMHEX16      (ushort)
    cccopen     DMHEX16      (ushort)
    change      DMHEX16      (ushort)
    orig        DMHEX16      (ushort)
    pktenv      DMHEX16      (ushort)
    redirect    DMHEX16      (ushort)
    release     DMHEX16      (ushort)
    servsys     DMHEX16      (ushort)
    termatt     DMHEX16      (ushort)
    contest     DMHEX16      (ushort)
    spare       DMHEX16      (ushort)
    lprofidx    DMCASEMAX    (ushort: 9)       <--- key
(a) ckt_opt     DMCKT_OPT    (enum: 2)
(b) pkt_opt     DMPKT_OPT    (enum: 2)
        User, Compacted and Stored Tuple Layout   LAESPROF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |              answer           |            ccclose            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |            cccopen            |             change            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |              orig             |             pktenv            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |            redirect           |            release            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |            servsys            |            termatt            |
```

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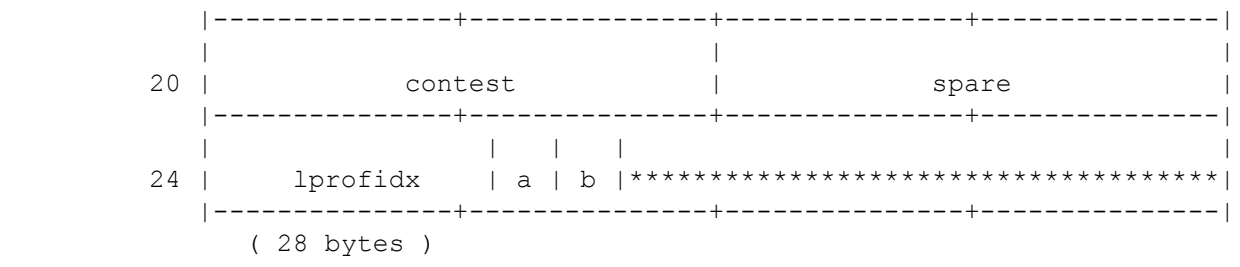


## 4. Population rules for RLlaesprof

### Relation Description

Lawfully Authorized Electronic Surveillance (LAES) profile

The new Lawfully Authorized Electronic Surveillance (LAES) profile. relation defines a surveillance profile which specifies what messages parameters and content are to be a llowed. When a message field does not equal zero that message should be sent. To avoid large character keys, this relation has been designed using 2 new relations: RLlaesprof and RLnm2prid. The RLnm2prid sub relation allows the large character keys to be used in the CMP by Recent Change.

**Attribute:**
lprofidx
**Fullname:**
Lawfully Authorized Electronic Surveillance (LAES) profile index
**Attribute Description:**
Lawfully Authorized Electronic Surveillance (LAES) profile index

**Attribute:**
ckt_opt
**Fullname:**
Circuit Options
**Attribute Description:**
Circuit Intercept Access Point (IAP) options:
(0) no context delivery
(1) not supported
(2) all content

**Attribute:**
pkt_opt
**Fullname:**
Packet Options
**Attribute Description:**
Packet Intercept Access Point (IAP) options:
(0) no CCC Packet delivery
(1) not supported

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(2) ccc Packet Delivery

**Attribute:**
answer
**Fullname:**
Answer
**Attribute Description:**
A 16-bit bitmap indicating the options for answer.

This field is a bitmap that indicates if call processing should send an Answer Message, indicated by a non-zero value, and if so, the attributes that should be included in the message.

```
-------------------------------------------------
|15|14|13|12|11|10|09|08|07|06|05|04|03|02|01|00|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *| *| *| *| *| *| *| *| *| O| O| O| M| M| O| M|
-------------------------------------------------
```

'*' unused (always zero)
'M' mandatory (must be set if any bits are set)
'O' optional

```
0 = caseid      mandatory
1 = IAPsysid    optional
2 = timestamp   mandatory
3 = callident   mandatory
4 = ansprtyid   optional
5 = location    optional
6 = bearcap     optional

7-15 =          unused
```

**Attribute:**
ccclose
**Fullname:**
CCclose
**Attribute Description:**
A 16-bit bitmap indicating the options for ccclose.

This field is a bitmap that indicates if call processing should send a ccclose Message, indicated by a non-zero value, and if so, the attributes that should be included in the message.

```
-------------------------------------------------
|15|14|13|12|11|10|09|08|07|06|05|04|03|02|01|00|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *| *| *| *| *| *| *| *| *| *| *| *| M| M| O| M|
-------------------------------------------------
```

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```
'*' unused (always zero)
'M' mandatory (must be set if any bits are set)
'O' optional

0 = caseid      mandatory
1 = IAPsysid    optional
2 = timestamp   mandatory
3 = CCCid       mandatory

4-15 =          unused
```

**Attribute:**
cccopen
**Fullname:**
CCCopen
**Attribute Description:**
A 16-bit bitmap indicating the options for cccopen.

This field is a bitmap that indicates if call processing should send a cccopen Message, indicated by a non-zero value, and if so, the attributes that should be included in the message.

```
-------------------------------------------------
|15|14|13|12|11|10|09|08|07|06|05|04|03|02|01|00|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *| *| *| *| *| *| *| *| *| *| *| M| M| M| O| M|
-------------------------------------------------

'*' unused (always zero)
'M' mandatory (must be set if any bits are set)
'O' optional

0 = caseid                      mandatory
1 = IAPsysid                    optional
2 = timestamp                   mandatory
3 = callident or PDUtype        mandatory
4 = CCCid                       mandatory

5-15 =                          unsed
```

**Attribute:**
change
**Fullname:**
Change
**Attribute Description:**
A 16-bit bitmap indicating the options for change.

This field is a bitmap that indicates if call processing should send a Change Message, indicated by a non-zero value, and if so,

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the attributes that should be included in the message.

```
-------------------------------------------------
|15|14|13|12|11|10|09|08|07|06|05|04|03|02|01|00|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *| *| *| *| *| *| *| *| *| *| *| M| M| M| O| M|
-------------------------------------------------
```

'*' unused (always zero)
'M' mandatory (must be set if any bits are set)
'O' optional

```
0 = caseid              mandatory
1 = IAPsysid            optional
2 = timestamp           mandatory
3 = previous call       mandatory
4 = resulting call      mandatory

5-15 =                  unused
```

**Attribute:**
orig
**Fullname:**
Originations
**Attribute Description:**
A 16-bit bitmap indicating the options for originations.

This field is a bitmap that indicates if call processing should send an Origination Message, indicated by a non-zero value, and if so, the attributes that should be included in the message.

```
-------------------------------------------------
|15|14|13|12|11|10|09|08|07|06|05|04|03|02|01|00|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *| *| *| *| *| *| O| O| O| M| O| O| M| M| O| M|
-------------------------------------------------
```

'*' unused (always zero)
'M' mandatory (must be set if any bits are set)
'O' optional

```
0 = caseid              mandatory
1 = IAPsysid            optional
2 = timestamp           mandatory
3 = callident           mandatory
4 = callingprtyid       optional
5 = calledprtyid        optional
6 = input               mandatory
7 = location            optional
8 = transitcarrid       optional
```

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```
        9 = bearcap             optional

        10-15 =                 unused
```

**Attribute:**
pktenv
**Fullname:**
Packet Envelope
**Attribute Description:**
A 16-bit bitmap indicating the options for packet envelope.

This field is a bitmap that indicates if call processing should send a Packet Envelope Message, indicated by a non-zero value, and if so, the attributes that should be included in the message. ( As of 5e14 this message is not being supported.)

```
        -------------------------------------------------
        |15|14|13|12|11|10|09|08|07|06|05|04|03|02|01|00|
        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
        | *| *| *| *| *| *| *| *| *| *| *| *| *| *| *| *|
        -------------------------------------------------
```

'*' unused (always zero)
'M' mandatory (must be set if any bits are set)
'O' optional

```
        0-15 =  unused
```

**Attribute:**
redirect
**Fullname:**
Redirections
**Attribute Description:**
A 16-bit bitmap indicating the options for redirections.

This field is a bitmap that indicates if call processing should send a Redirection Message, indicated by a non-zero value, and if so, the attributes that should be included in the message.

```
        -------------------------------------------------
        |15|14|13|12|11|10|09|08|07|06|05|04|03|02|01|00|
        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
        | *| *| *| *| *| *| *| *| O| O| O| M| M| M| O| M|
        -------------------------------------------------
```

'*' unused (always zero)
'M' mandatory (must be set if any bits are set)

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```
'O' optional

0 = caseid              mandatory
1 = IAPsysid            optional
2 = timestamp           mandatory
3 = callident           mandatory
4 = redirtoprtyid       mandatory
5 = transitcarrid       optional
6 = bearcap             optional
7 = systemid            optional

8-15 =                  unused
```

**Attribute:**
release
**Fullname:**
Release
**Attribute Description:**
A 16-bit bitmap indicating the options for release.

This field is a bitmap that indicates if call processing should send a Release Message, indicated by a non-zero value, and if so, the attributes that should be included in the message.

```
-------------------------------------------------
|15|14|13|12|11|10|09|08|07|06|05|04|03|02|01|00|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *| *| *| *| *| *| *| *| *| *| O| O| M| M| O| M|
-------------------------------------------------

'*' unused (always zero)
'M' mandatory (must be set if any bits are set)
'O' optional

0 = caseid      mandatory
1 = IAPsysid    optional
2 = timestamp   mandatory
3 = callident   mandatory
4 = location    optional
5 = systemid    optional

6-15 =          unused
```

**Attribute:**
servsys
**Fullname:**
Serving Systems
**Attribute Description:**
A 16-bit bitmap indicating the options for serving systems.

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This field is a bitmap that indicates if call processing should send a Serving System Message, indicated by a non-zero value, and if so, the attributes that should be included in the message. (As of 5E14 this message is not being used.)

| 15 | 14 | 13 | 12 | 11 | 10 | 09 | 08 | 07 | 06 | 05 | 04 | 03 | 02 | 01 | 00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

'*' unused (always zero)
'M' mandatory (must be set if any bits are set)
'O' optional

0-15 = unused

**Attribute:**
termatt
**Fullname:**
Terminations Attempts
**Attribute Description:**
A 16-bit bitmap indicating the options for terminations attempts.

This field is a bitmap that indicates if call processing should send a Termination Attempt Message, indicated by a non-zero value, and if so, the attributes that should be included in the message.

| 15 | 14 | 13 | 12 | 11 | 10 | 09 | 08 | 07 | 06 | 05 | 04 | 03 | 02 | 01 | 00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * | * | * | * | * | * | * | * | O | O | O | M | M | M | O | M |

'*' unused (always zero)
'M' mandatory (must be set if any bits are set)
'O' optional

| | |
|---|---|
| 0 = caseid | mandatory |
| 1 = IAPsysid | optional |
| 2 = timestamp | mandatory |
| 3 = callident | mandatory |
| 4 = callingprtyid | mandatory |
| 5 = calledprtyid | optional |
| 6 = bearcap | optional |
| 7 = redirfrominfo | optional |
| 8-15 = | unused |

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**Attribute:**
contest
**Fullname:**
Connection Test
**Attribute Description:**
A 16-bit bitmap indicating the options for connection test.

This field is a bitmap that indicates if call processing should send a Connection Test Message, indicated by a non-zero value, and if so, the attributes that should be included in the message.

```
-------------------------------------------------
|15|14|13|12|11|10|09|08|07|06|05|04|03|02|01|00|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *| *| *| *| *| *| *| *| *| *| *| *| O| M| O| M|
-------------------------------------------------
```

'*' unused (always zero)
'M' mandatory (must be set if any bits are set)
'O' optional

```
0 = caseid      mandatory
1 = IAPsysid    optional
2 = timestamp   mandatory
3 = memo        optional

4-15 =          unused
```

**Attribute:**
spare
**Fullname:**
Spare Message Field
**Attribute Description:**
The Spare message field is available to add a future message as specified by the FSD.

```
-------------------------------------------------
|15|14|13|12|11|10|09|08|07|06|05|04|03|02|01|00|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *| *| *| *| *| *| *| *| *| *| *| *| *| *| *| *|
-------------------------------------------------
```

'*' unused (always zero)
'M' mandatory (must be set if any bits are set)
'O' optional

```
0-15 =  unused
```

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# LANG_PHR

## 1. Description

This relation contains the language code to phrase ID table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2047 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| tsbal | DBSPEED |
| permutation type | un_perm |

## 3. Field Layout

```
LANG_PHR    relid = 2608  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     lang_code   DMUNS10      (ushort: 10)     <--- key
     spare1      DMUNS5       (ushort: 5)
     spare2      DMUSHORT     (ushort)
     phraz1      DMPHRASE     (ushort)
     phraz2      DMPHRASE     (ushort)
     phraz3      DMPHRASE     (ushort)
     phraz4      DMPHRASE     (ushort)
     phraz5      DMPHRASE     (ushort)
     phraz6      DMPHRASE     (ushort)
     phraz7      DMPHRASE     (ushort)
     phraz8      DMPHRASE     (ushort)
     phraz9      DMPHRASE     (ushort)
     phraz10     DMPHRASE     (ushort)
     phraz11     DMPHRASE     (ushort)
     phraz12     DMPHRASE     (ushort)
     phraz13     DMPHRASE     (ushort)
     phraz14     DMPHRASE     (ushort)
     phraz15     DMPHRASE     (ushort)
     phraz16     DMPHRASE     (ushort)
     phraz17     DMPHRASE     (ushort)
     phraz18     DMPHRASE     (ushort)
     phraz19     DMPHRASE     (ushort)
     phraz20     DMPHRASE     (ushort)
     phraz21     DMPHRASE     (ushort)
     phraz22     DMPHRASE     (ushort)
     phraz23     DMPHRASE     (ushort)
     phraz24     DMPHRASE     (ushort)
     phraz25     DMPHRASE     (ushort)
     phraz26     DMPHRASE     (ushort)
     phraz27     DMPHRASE     (ushort)
     phraz28     DMPHRASE     (ushort)
     phraz29     DMPHRASE     (ushort)
     phraz30     DMPHRASE     (ushort)
     phraz31     DMPHRASE     (ushort)
     phraz32     DMPHRASE     (ushort)
     phraz33     DMPHRASE     (ushort)
```

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```
phraz34     DMPHRASE     (ushort)
phraz35     DMPHRASE     (ushort)
phraz36     DMPHRASE     (ushort)
phraz37     DMPHRASE     (ushort)
phraz38     DMPHRASE     (ushort)
phraz39     DMPHRASE     (ushort)
phraz40     DMPHRASE     (ushort)
phraz41     DMPHRASE     (ushort)
phraz42     DMPHRASE     (ushort)
phraz43     DMPHRASE     (ushort)
phraz44     DMPHRASE     (ushort)
phraz45     DMPHRASE     (ushort)
phraz46     DMPHRASE     (ushort)
phraz47     DMPHRASE     (ushort)
phraz48     DMPHRASE     (ushort)
phraz49     DMPHRASE     (ushort)
phraz50     DMPHRASE     (ushort)
phraz51     DMPHRASE     (ushort)
phraz52     DMPHRASE     (ushort)
phraz53     DMPHRASE     (ushort)
phraz54     DMPHRASE     (ushort)
phraz55     DMPHRASE     (ushort)
phraz56     DMPHRASE     (ushort)
phraz57     DMPHRASE     (ushort)
phraz58     DMPHRASE     (ushort)
phraz59     DMPHRASE     (ushort)
phraz60     DMPHRASE     (ushort)
phraz61     DMPHRASE     (ushort)
phraz62     DMPHRASE     (ushort)
phraz63     DMPHRASE     (ushort)
phraz64     DMPHRASE     (ushort)
phraz65     DMPHRASE     (ushort)
phraz66     DMPHRASE     (ushort)
phraz67     DMPHRASE     (ushort)
phraz68     DMPHRASE     (ushort)
phraz69     DMPHRASE     (ushort)
phraz70     DMPHRASE     (ushort)
phraz71     DMPHRASE     (ushort)
phraz72     DMPHRASE     (ushort)
phraz73     DMPHRASE     (ushort)
phraz74     DMPHRASE     (ushort)
phraz75     DMPHRASE     (ushort)
phraz76     DMPHRASE     (ushort)
phraz77     DMPHRASE     (ushort)
phraz78     DMPHRASE     (ushort)
phraz79     DMPHRASE     (ushort)
phraz80     DMPHRASE     (ushort)
phraz81     DMPHRASE     (ushort)
phraz82     DMPHRASE     (ushort)
phraz83     DMPHRASE     (ushort)
phraz84     DMPHRASE     (ushort)
phraz85     DMPHRASE     (ushort)
phraz86     DMPHRASE     (ushort)
phraz87     DMPHRASE     (ushort)
```

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```
phraz88     DMPHRASE     (ushort)
phraz89     DMPHRASE     (ushort)
phraz90     DMPHRASE     (ushort)
phraz91     DMPHRASE     (ushort)
phraz92     DMPHRASE     (ushort)
phraz93     DMPHRASE     (ushort)
phraz94     DMPHRASE     (ushort)
phraz95     DMPHRASE     (ushort)
phraz96     DMPHRASE     (ushort)
phraz97     DMPHRASE     (ushort)
phraz98     DMPHRASE     (ushort)
phraz99     DMPHRASE     (ushort)
phraz100    DMPHRASE     (ushort)
phraz101    DMPHRASE     (ushort)
phraz102    DMPHRASE     (ushort)
phraz103    DMPHRASE     (ushort)
phraz104    DMPHRASE     (ushort)
phraz105    DMPHRASE     (ushort)
phraz106    DMPHRASE     (ushort)
phraz107    DMPHRASE     (ushort)
phraz108    DMPHRASE     (ushort)
phraz109    DMPHRASE     (ushort)
phraz110    DMPHRASE     (ushort)
phraz111    DMPHRASE     (ushort)
phraz112    DMPHRASE     (ushort)
phraz113    DMPHRASE     (ushort)
phraz114    DMPHRASE     (ushort)
phraz115    DMPHRASE     (ushort)
phraz116    DMPHRASE     (ushort)
phraz117    DMPHRASE     (ushort)
phraz118    DMPHRASE     (ushort)
phraz119    DMPHRASE     (ushort)
phraz120    DMPHRASE     (ushort)
phraz121    DMPHRASE     (ushort)
phraz122    DMPHRASE     (ushort)
phraz123    DMPHRASE     (ushort)
phraz124    DMPHRASE     (ushort)
phraz125    DMPHRASE     (ushort)
phraz126    DMPHRASE     (ushort)
phraz127    DMPHRASE     (ushort)
phraz128    DMPHRASE     (ushort)
phraz129    DMPHRASE     (ushort)
phraz130    DMPHRASE     (ushort)
phraz131    DMPHRASE     (ushort)
phraz132    DMPHRASE     (ushort)
phraz133    DMPHRASE     (ushort)
phraz134    DMPHRASE     (ushort)
phraz135    DMPHRASE     (ushort)
phraz136    DMPHRASE     (ushort)
phraz137    DMPHRASE     (ushort)
phraz138    DMPHRASE     (ushort)
phraz139    DMPHRASE     (ushort)
phraz140    DMPHRASE     (ushort)
phraz141    DMPHRASE     (ushort)
```

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```
     phraz142    DMPHRASE     (ushort)
     phraz143    DMPHRASE     (ushort)
     phraz144    DMPHRASE     (ushort)
     phraz145    DMPHRASE     (ushort)
     phraz146    DMPHRASE     (ushort)
     phraz147    DMPHRASE     (ushort)
     phraz148    DMPHRASE     (ushort)
     phraz149    DMPHRASE     (ushort)
         User, Compacted and Stored Tuple Layout   LANG_PHR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                     |         | |                               |
  0 |     lang_code       |  spare1 |*|              spare2            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              phraz1           |              phraz2           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |              phraz3           |              phraz4           |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                               |                               |
292 |             phraz145          |             phraz146          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
296 |             phraz147          |             phraz148          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
300 |             phraz149          |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 304 bytes )
```

## 4. Population Rules for RLlang_phr

**Relation Description**
Language code to phrase id table

```
POPULATION RULES FOR <<<< RLlang_phr >>>>
        Attribute
        ---------
key     lang_code       DESCR: 11 bits
                        RANGE: 1-1000
                        DEFAULT: None
        spare1          DESCR: field used for spare and
                               for alignment  of tuple
                        RANGE: 0
                        DEFAULT:  0
        spare2          DESCR: field used for spare and
                               for alignment  of tuple
                        RANGE: 0
```

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```
                    DEFAULT:  0
          phraz1    DESCR:
            .       RANGE: 0-16383,  16600-MAXPHRASEID
            .       At least one non-zero entry must  be specified.
            .       The end of the phrases is denoted by  a zero (0)
            .       entry which MUST be present in each tuple.  No
            .       non-zero entries can exist after this entry.
          phraz149
                    These values are defined as follows:
                    PHRASEX         DESCRIPTION
                    -------         -----------
                       0            Defines logical end of Phrase list
                     1-16383        Application Defined Phrase IDs
                     16600-MAXPHRASEID  Application Defined Phrase IDs
DEFAULT: 0
```

**Attribute: lang_code**

**Fullname:** language code

**Attribute Description** Language identifier code.

**Attribute: spare1**

**Fullname:** spare1

**Attribute Description** Field used for spare and for alignment of tuple.

**Attribute: spare2**

**Fullname:** spare2

**Attribute Description** Field used for spare and for alignment of tuple.

**Attribute: phraz1**

**Fullname:** phrase or command

**Attribute Description** At least one non-zero entry must be specified. The end of the phrases is denoted by a zero (0) entry which MUST be present in each tuple. No non-zero entries can exist after this entry.

These values are defined as follows:

```
PHRASEX         DESCRIPTION
-------         -----------
  0             Defines logical end of Phrase list
1-16383,        Application Defined Phrase IDs
16600-MAXPHRASEID  Application Defined Phrase IDs
```

**Attribute: phraz[*]**

**Fullname:** phrase or commad

**Attribute Description** At least one non-zero entry must be specified. The end of the phrases is denoted by a zero (0) entry which MUST be present in each tuple. No non-zero entries can exist after this entry.

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These values are defined as follows:

| PHRASEX | DESCRIPTION |
|---|---|
| 0 | Defines logical end of Phrase list |
| 1-16383, | Application Defined Phrase IDs |
| 16600-MAXPHRASEID | Application Defined Phrase IDs |

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# LANG_TBL

## 1. Description

Table containing non-English language mapping from a language value in the card issuer tables RLtcr_f[2-7]dv to the appropriate announcement application type.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 6 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
LANG_TBL    relid = 1901  DBSTATIC   DBACC_LIN   DBPRAM    FG      NULL
     nacc_ldisp  DMCHAR3      (array [ 3 ] of char )
     appl        DMANNC_APL   (enum: 4)
 (a) lang_val    DMUNS3       (ushort: 3)  <--- key
 (b) active      DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   LANG_TBL
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                |       |     | |
  0 |                   nacc_ldisp                   |  appl |  a  |b|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLlang_tbl

**Relation Description**
Language table. An entry in this table maps the language value for a calling card to the announcement application type, a language activation flag, and an indicator for the operator display.

An entry in this table maps the language value for a calling card to the announcement application type so card announcements may be played in the appropriate language for a customer. Lang_val is equivalent to the language of preference (LOP) that may be returned in a calling card query reply from the customer account services (CAS) network control point (NCP) database.

**Attribute: lang_val**

**Fullname:** Language value

**Attribute Description** The language value is retrieved from the card issuer database (office data administration (ODA) form TCCID or recent change (RC) view 27.55) or is returned in a CAS card validation query as a language of preference. This table maps the language value to the proper set of announcements to play so that they are in the language that the card issuer or customer has selected.

**Attribute: active**

**Fullname:** Active

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**Attribute Description** This flag indicates whether this language has been activated, that is, whether the phrase set for this language has been populated on the appropriate RAF announcement board or SAS circuit packs.

**Attribute: appl**

**Fullname:** Announcement application type

**Attribute Description** Special announcement applications were defined to allow using the same announcement header IDs for non-English language announcements as are used for English operator services position system (OSPS) card announcements.

**Attribute: nacc_ldisp**

**Fullname:** Non-English announcements for card calls (NACC) language display

**Attribute Description** This is a three-character indicator displayed on the OSPS operator terminal to show which non-English language is associated with this call.

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# LANGDEST

## 1. Description

This relation contains the table mapping language codes to destination code.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2047 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
LANGDEST    relid = 2607  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     ama_code    DMUNS17      (ulong: 17)
     dest_indx   DMUNS12      (ushort: 12)
     spare2      DMUSHORT     (ushort)     spare3      DMUSHORT     (ushort)
     spare4      DMUSHORT     (ushort)
     lang_code   DMUNS10      (ushort: 10)     <--- key
     spare1      DMUNS5       (ushort: 5)
     language    DMCHAR7      (array [ 7 ] of char )
     calltype    DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout   LANGDEST
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                       |     |
  0 |             ama_code            |       dest_indx       |*****|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  4 |             spare2              |             spare3            |
    |---------------+---------------+---------------+---------------|
    |                                 |                   |         | |
  8 |             spare4              |     lang_code     |  spare1 |*|
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 12 |                            language                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
    |                                                   |             |
 16 |                    language                       |    calltype   |
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population Rules for RLlangdest

**Relation Description**
Language to destination code index table

Relation is used to map a language code to a destination code value.

This relation should be populated for domestic generics only.

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Engineering Information:
Maximum # tuples: 2047
Average # Tuples: 200

**Attribute: lang_code**

**Fullname:** language code

**Attribute Description** This is the language identifier code.

**Attribute: dest_indx**

**Fullname:** destination index

**Attribute Description** This field specifies the destination code index that is used to route the call.

**Attribute: language**

**Fullname:** language

**Attribute Description** This field is the text that is displayed to an operator.

**Attribute: calltype**

**Fullname:** call type

**Attribute Description** This field specifies the Automatic Call Distributor (ACD) call queue number assigned to this call type.

**Attribute: ama_code**

**Fullname:** ama code

**Attribute Description** This field is the number used by AMA recording.

**Attribute: spare1**

**Fullname:** Spare Field

**Attribute Description** Spare field for fast features.

**Attribute: spare2**

**Fullname:** Spare Field

**Attribute Description** Spare field for fast features.

**Attribute: spare3**

**Fullname:** Spare Field

**Attribute Description** Spare field for fast features.

**Attribute: spare4**

**Fullname:** Spare Field

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**Attribute Description** Spare field for fast features.

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# LANGMENU

## 1. Description

This relation contains the table mapping language access codes to language code or language menu codes.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2400 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
LANGMENU    relid = 2609  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     spare1      DMUSHORT     (ushort)
     lang_code   DMUNS10      (ushort: 10)
     spare3      DMUNS4       (ushort: 4)
 (a) lmclac      DMBOOL       (enum: 1)
 (b) oper        DMBOOL       (enum: 1)
     spare2      DMUNS10      (ushort: 10)
 (c) cust        DMBOOL       (enum: 1)
     lac         DMCHAR7      (array [ 7 ] of char )     <--- key
         User, Compacted and Stored Tuple Layout   LANGMENU
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                   |       | | |
  0 |             spare1            |     lang_code     | spare3|a|b|
    |---------------+---------------+---------------+---------------|
    |                   | |         |                               |
  4 |       spare2      |c|*********|              lac              |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             lac                               |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |               |                                               |
 12 |      lac      |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLlangmenu

**Relation Description**
Language menu code or language access code to language code table

Relation is used to map a language menu code. Or to map a language access code to language code. These two data types are mutually exclusive and share the same structure.

This relation should be populated for domestic generics only.

Engineering Information:
Maximum # tuples: 2400

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Average # Tuples: 200

**Attribute: lac**

**Fullname:** language access code

**Attribute Description** This field specifies the language menu code or the language access code.

**Attribute: lmclac**

**Fullname:** language menu code or language access code

**Attribute Description** This field indicates whether or not this data is for a language menu code.

**Attribute: oper**

**Fullname:** operator

**Attribute Description** This field specifies whether the lac number can be accessed by an operator.

**Attribute: cust**

**Fullname:** cust

**Attribute Description** This field specifies whether the lac number can be accessed by a customer.

**Attribute: lang_code**

**Fullname:** language code

**Attribute Description** This is the language identifier code.

**Attribute: spare1**

**Fullname:** Spare Field

**Attribute Description** Spare field for fast features.

**Attribute: spare2**

**Fullname:** Spare Field

**Attribute Description** Spare field for fast features.

**Attribute: spare3**

**Fullname:** Spare Field

**Attribute Description** Spare field for fast features.

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# LAPBSUB

## 1. Description

For each DSL B-channel that is nailed up to a PH port for packet switching, this relation describes the subscriber-selected LAPB parameters.

```
bport
lapbt1 - T1 timer - timeout value for frame retransmissions
lapbn2 - N2 - maximum no. of frame retransmissions
lapbk  - K  - maximum no. of outstanding  I-frames (that is, window size)
lapbt3 - T3 timer - timeout for idle channel state
```

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 96 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 0 |
| trigger function | TMtflapbsub |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
LAPBSUB     relid = 162   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     bport       DMPORT       (ushort)     <--- key
     lapbt1      DMLAPBT1     (uchar: 8)
     lapbt3      DMLAPBT3     (uchar: 5)
     lapbk       DMLAPBK      (uchar: 3)
     lapbn2      DMLAPBN2     (uchar: 4)
         User, Compacted and Stored Tuple Layout    LAPBSUB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |               |         |     |
  0 |              bport             |     lapbt1    |  lapbt3 |lapbk|
    |---------------+---------------+---------------+---------------|
    |       |                                                       |
  4 | lapbn2|*******************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLlapbsub

**Relation Description**

Link access procedures balanced (LAPB) level 2 parameters for subscribers.

For each B channel with packet switching that is nailed up to a protocol handler (PH) port, this relation describes the subscriber selected LAPB level 2 parameters.

The Service Provider must get the information for these parameters from the end customer. These parameters are

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defined in the protocol specifications for the end customers computer (which will usually be a host computer).

These parameters are standard parameters defined originally by the Telecommunicaton Standarization Sector (ITU-TS) international standards organization. These parameters are also defined in the protocol specifications for all specific implementations of the X.25 protocol (such as, the ATT practices entitled: Network System Group, X.25 DTE, Communication Protocol Specifications).

QUANTITY OF TUPLES: One tuple per nailed-up B-channel with packet switching.

**Attribute: bport**

**Fullname:** B channel port name.

**Attribute Description**Populate with digital subscriber line (DSL) B-channel port name. This port must be populated concurrently in RLfc_porttyp,RLdslequip, and RLequipdsl.

**Attribute: lapbt1**

**Fullname:** LAPB T1 timer timeout value.

**Attribute Description** Populate with the T1 timer timeout value for LAPB level 2 frame retransmissions. The range is 20 - 200 (2-20 seconds in two-tenths of a second, that is, .2 second increments).

**Attribute: lapbt3**

**Fullname:** LAPB T3 timer timeout value.

**Attribute Description** Populate with the T3 timer timeout value (in seconds) for LAPB idle channel state. The range is 3 - 30 seconds.The value of the T3 timer must be and should be significantly (Telecommunicaton Standarization Sector (ITU-TS)) greater than the value of the T1 timer. For example if T1 is 200 (20 seconds), then T3 might be 30. If T1 is 60 (6 seconds), then T3 might be 9 or larger.

**Attribute: lapbn2**

**Fullname:** LAPB N2 timer timeout value.

**Attribute Description** Populate with the N2 value for LAPB level 2, that is, maximum number of LAPB level 2 frame retransmissions. The range is 2 - 15.

**Attribute: lapbk**

**Fullname:** LAPB window K value.

**Attribute Description** Populate with the K value for the LAPB level 2 window size, that is, the maximum number of outstanding I - frames.

**Defines:** "db/DMport.h"

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# LASSCONV

## 1. Description

LASS feature conversion states.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| trigger function | RTtracsopt |
| insert trigger | DBNO |
| update trigger | DBYES |
| delete trigger | DBNO |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
LASSCONV    relid = 1134  DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL
 (a) cotconv     DMACCESS     (enum: 3)
 (b) acconv      DMACCESS     (enum: 3)
 (c) dummy_key   DMBOOL       (enum: 1)  <--- key
 (d) sca_gen     DMBOOL       (enum: 1)
 (e) arconv      DMACCESS     (enum: 3)
 (f) scaconv     DMACCESS     (enum: 3)
 (g) scf_gen     DMBOOL       (enum: 1)
 (h) scr_gen     DMBOOL       (enum: 1)
 (i) scfconv     DMACCESS     (enum: 3)
 (j) scrconv     DMACCESS     (enum: 3)
 (k) sda_gen     DMBOOL       (enum: 1)
 (l) sdaconv     DMACCESS     (enum: 3)
        User, Compacted and Stored Tuple Layout   LASSCONV
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |     |     | | |     |     | | |     |     | | |     |         |
 0 |  a  |  b  |c|d|  e  |  f  |g|h|  i  |  j  |k|*|  l  |*********|
   |---------------+---------------+---------------+---------------|
      ( 4 bytes )
```

## 4. Population Rules for RLlassconv

**Relation Description**
LASS feature access conversions.

This relation controls LASS feature access conversions for LASS Automatic Callback, LASS Automatic Recall, and COT. The conversion information relates to the conversion of one feature access state to another for these features. This relation is administered by RC only.

**Attribute: dummy_key**

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**Fullname:** dummy key

**Attribute Description** This relation does not need a key, but one is required. A dummy key is used for this relation.

**Attribute: cotconv**

**Fullname:** COT conversion to state

**Attribute Description**The COT conversion to state will key track of the feature access state that is being converted to.

**Attribute: acconv**

**Fullname:** LASS AC conversion to state

**Attribute Description**The AC conversion to state will keep track of the feature access state that is being converted to.

**Attribute: arconv**

**Fullname:** LASS AR conversion to state

**Attribute Description** The AR conversion to state will keep track of the feature access state that is being converted to.

**Attribute: scaconv**

**Fullname:** Information concerning this section is not available at this time.

**Attribute Description**Information concerning this section is not available at this time.

**Attribute: scfconv**

**Fullname:** Information concerning this section is not available at this time.

**Attribute Description** Information concerning this section is not available at this time.

**Attribute: scrconv**

**Fullname:** Information concerning this section is not available at this time.

**Attribute Description** Information concerning this section is not available at this time.

**Attribute: sdaconv**

**Fullname:** Information concerning this section is not available at this time.

**Attribute Description** Information concerning this section is not available at this time.

**Attribute: sca_gen**

**Fullname:** Information concerning this section is not available at this time.

**Attribute Description** Information concerning this section is not available at this time.

**Attribute: scf_gen**

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**Fullname:**Information concerning this section is not available at this time.

**Attribute Description** Information concerning this section is not available at this time.

**Attribute: scr_gen**

**Fullname:** Information concerning this section is not available at this time.

**Attribute Description**Information concerning this section is not available at this time.

**Attribute: sda_gen**

**Fullname:** Information concerning this section is not available at this time.

**Attribute Description** Information concerning this section is not available at this time.

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# LAT_LPT

## 1. Description

This relation contains the Logical ISDN Attendant to Logical Port.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| expected number of tuples | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
LAT_LPT     relid = 1028  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     lport       DMLPORT      (ushort: 16)
     latidx      DMLATIDX     (ushort: 5)    <--- key
 (a) termno      DMTERMNO     (uchar: 1)
         User, Compacted and Stored Tuple Layout    LAT_LPT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |         | |                   |
  0 |              lport            |  latidx |a|*******************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population rules for RLlat_lpt

### Relation Description

Logical ISDN Attendant to the Logical port.
Identifies the association of the logical ISDN attendant index (latidx) to the logical port (lport) and terminal number (termno) of the ISDN attendant DSL.

**Attribute:**

latidx

**Fullname:**

Logical ISDN Attendant.

**Attribute Description:**

Logical ISDN attendant terminal index.
Sequentially assigned number used to cause a dense packing of ISDN attendant keyed dynamic relation (RLattm_blf). If a tuple in RLis_term whose key is the lport and term has valid lport populated and the RLis_term.cpetyp = IS_TYPATT or IS_TYPED, then that RLis_term.latidx is populated in this tuple as the key.

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**Attribute:**
lport
**Fullname:**
Logical Port.
**Attribute Description:**
If a tuple in RLis_term.lport has a valid lport populated, then this tuple uses that key and populates this tuple.

**Attribute:**
termno
**Fullname:**
Terminal Number.
**Attribute Description:**
Terminal number. In 5E4 set to 0.

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# LCRX_G

## 1. Description

This is the storage relation for RAX and LCC attributes.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10000 |
| expected tuples | 300 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTORAGE |
| head table size | 1024 |
| data page size | 512 |
| page level | 2 |
| index length | 0 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel reverse index | rlLCRX_I |

## 3. Field Layout

```
LCRX_G      relid = 1692  DBSTORAGE  DBACC_GK    DBPRAM    LR      NULL
     gkLCRX_G    DMGK14       (ulong: 14)    <--- key, not stored
     lcc         DMLCC        (array [ 3 ] of char )
     rax         DMINDEX      (ushort)    <--- compacted
            User Tuple Layout    LCRX_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkLCRX_G             |
    |---------------+---------------+---------------+---------------|
    |                                   |                 |
  4 |                      lcc          |*****************|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  8 |              rax                |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )

     gkLCRX_G    DMGK14       (ulong: 14)    <--- key, not stored
     lcc         DMLCC        (array [ 3 ] of char )
     rax         DMRAX        (ushort: 7)    <--- compacted
          Compacted Tuple Layout     LCRX_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkLCRX_G             |
    |---------------+---------------+---------------+---------------|
    |                                   |                 |
  4 |                      lcc          |*****************|
    |---------------+---------------+---------------+---------------|
    |             |                                                   |
```

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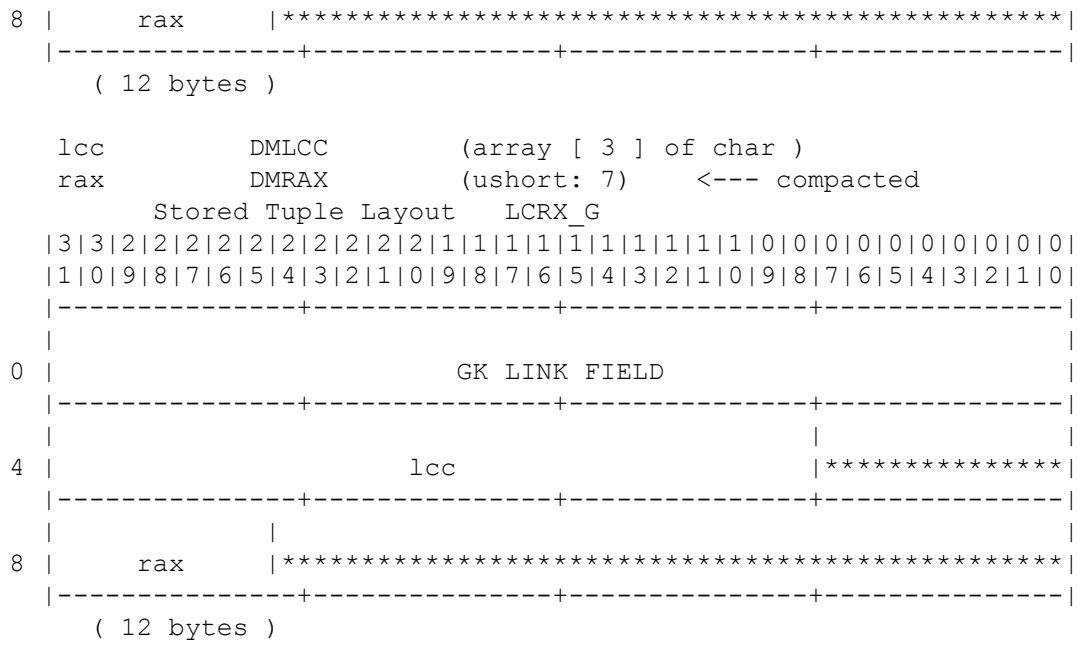


## 4. Population rules for RLlcrx_g

**Relation Description**

There are no population rules for the relation.

# LDPIDX_R

## 1. Description

This relation consist of the new Automatic Number Identification (ANI) Index Table to handle 6M ANI entries.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 50000 |
| expected tuples in relation | 1000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTORAGE |
| ks key store | AUTO |

## 3. Field Layout

```
LDPIDX_R    relid = 2942  DBSTORAGE  DBACC_CIND  DBPRAM    FR      NULL
     index       DMLDPINDX    (ulong: 17)    <--- key, not stored
     ldpptr      DMGK15       (ulong: 15)
         User and Compacted Tuple Layout   LDPIDX_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |               index             |*******************************|
    |---------------+---------------+---------------+---------------|
    |                               |                                 |
  4 |             ldpptr            |*********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     ldpptr      DMGK15       (ulong: 15)
           Stored Tuple Layout     LDPIDX_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             ldpptr            |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population rules for RLldpidx_r

### Relation Description

There are no population rules for this relation.

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# LDPINDX

## 1. Description

This relation contains the automatic number identification index table.

This is a virtual update relation. The root storage relation is RLldpidx_r and the child storage relation is RLldpstr_g. The tree diagram Figure 1 depicts the stored structure of virtual relation LDPINDX.

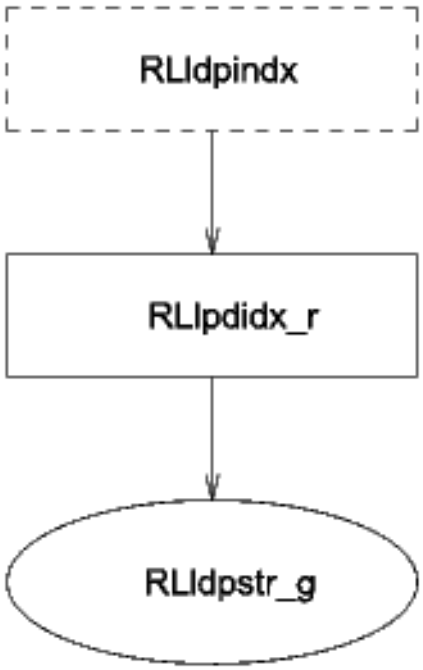


**Figure 1 Virtual Relation LDPINDX**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
LDPINDX     relid = 2941  DBSTATIC   DBACC_OPV   DBNOTODD  FR      NULL


    used_by_cnt  DMUNS32      (ulong)
    tnsc         DMTNSC       (ushort: 10)
    acclen       DMUNS5       (ushort: 5)
(a) ncd          DMBOOL       (enum: 1)
    trignum      DMUNS8       (ushort: 8)
    digtree      DMDA_TREE    (ushort: 7)
    index        DMLDPINDX    (ulong: 17)       <--- key
    screen_x     DMSCRNIDX    (ushort: 12)
    carrid       DMBCARID     (ushort: 14)
(b) ii_screen    DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout    LDPINDX
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
```

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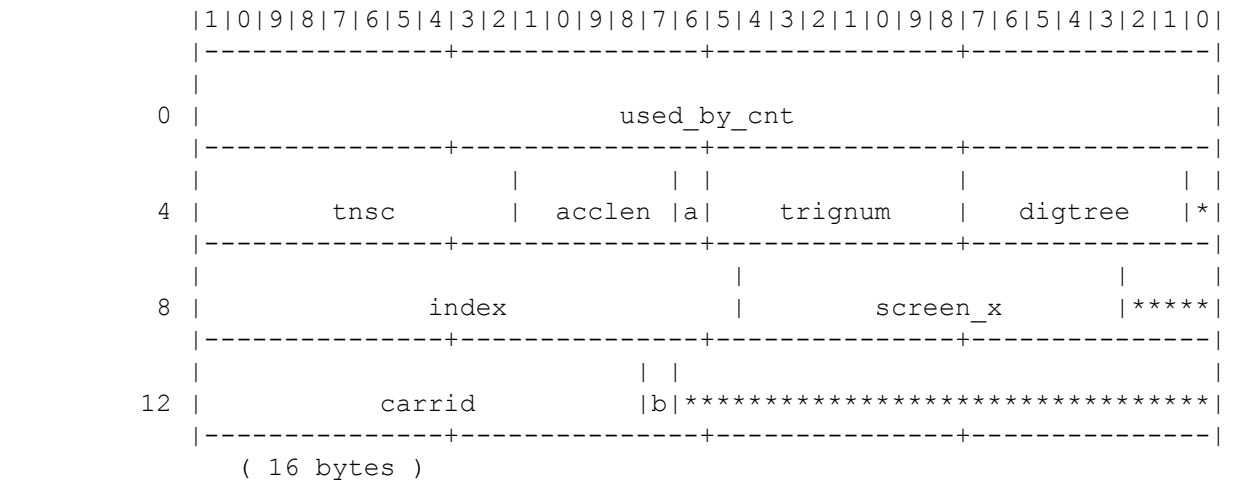


## 4. Population rules for RLldpindx

### Relation Description

Automatic Number Identification index table

This relation consist of the Automatic Number Identification (ANI) Index Table to handle 6M ANI entries.

Provides ANI Table processing for Toll Digital Exchange (TDX) Calls based on options set in this relation.

The relations RLanidflt, RLanitbl, RLanidx[XXX] and RLtdxcartb are used together to determine how LDP calls are processed.

Note: Terminology was changed from "Toll Digital Exchange (TDX)" to "Long Distance Platform (LDP)". The database still contains names with "tdx" whereas the customers will see "ldp" on ODA forms and RC views.

**Attribute:**
index
**Fullname:**
Automatic Number Identification table index
**Attribute Description:**
A key for this relation. It is a pointer from RLanidx[XXX].R.

**Attribute:**
digtree
**Fullname:**
Digit analysis selector
**Attribute Description:**
DAS for TDX call. If digtree is not populated (that is, is set to zero), then the default DAS in

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RLldpindx.digtree (where RLldpindx.index == 0)
will be used. The value for digtree must be a
valid line DAS.

**Attribute:**
screen_x
**Fullname:**
screening index
**Attribute Description:**
Normally associated with a line or trunk, the screening index allows for different billing rates and routing. The default value for screen_x is zero (0), meaning not populated.

**Attribute:**
ncd
**Fullname:**
network call denial
**Attribute Description:**
Network Call Denial for TDX call. A DBNO indicates the call is allowed access to the network, a DBYES indicates the call should be denied access to the network. Default is DBNO.

**Attribute:**
acclen
**Fullname:**
account code length
**Attribute Description:**
ACCLEN for TDX call. This field indicates number of account code digits to be entered by the caller. A value of zero indicates caller has no account code feature assigned. A non-zero value up to 15 indicates the maximum number of digits that may be entered by the caller. The entered digits appear in the AMA record for the call, if one is generated. No validation is performed on the entered digits. The default value of this field is zero(0).

**Attribute:**
carrid
**Fullname:**
Carrier id for fixed carrier routing
**Attribute Description:**
Carrier id used for fixed carrier routing for this ANI. This field is optional. If the service provider does not want the call to be routed based on digit analysis then carrier id should be populated. The call will be routed via carrier id's route indices.

**Attribute:**

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trignum

**Fullname:**

Trigger Number

**Attribute Description:**

Contain ASP trigger number value ranging from 0-255. If the field is 0, no SCP query will be sent. If the field is 1-255, the number will indicate the AIN R0.1 Trigger Number to use for the SCP query.

NOTE: The trignum value assigned in ANI Table must be a valid ASP Trigger Number as defined by Recent Change View 9.35 (RLns_trig).

**Attribute:**

tnsc

**Fullname:**

Terminating Network Selection Code

**Attribute Description:**

Used to segregate traffic for MINT signaling

**Attribute:**

ii_screen

**Fullname:**

Information (II) digits screening indicator

**Attribute Description:**

When this indicator is set to DBYES, the ANI data should be taken from the RLiidigits relation

**Attribute:**

used_by_cnt

**Fullname:**

Used by count

**Attribute Description:**

Counts the number of ANI's in RLanidx[XXX] that use this particular ANI Table data set.

**Defines:**

"db/DMcarr_val.h",
"db/DMtnsc.h"

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# LDPSTR_G

## 1. Description

This relation consist of the new Automatic Number Identification (ANI) Index Table to handle 6M ANI entries.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 25000 |
| expected tuples | 1000 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTORAGE |
| ks key store | DBNO |
| foldtype | DBGC31 |
| gkidxrel reverse index | rlLDPSTR_I |

## 3. Field Layout

```
LDPSTR_G    relid = 2943  DBSTORAGE  DBACC_GK    DBPRAM    FR      NULL


    gkLDPSTR_G  DMGK15       (ulong: 15)       <--- key, not stored
    carrid      DMBCARID     (ushort: 14)
(a) ii_screen   DMBOOL       (enum: 1)
    screen_x    DMSCRNIDX    (ushort: 12)
    tnsc        DMTNSC       (ushort: 10)
    acclen      DMUNS5       (ushort: 5)
(b) ncd         DMBOOL       (enum: 1)
    trignum     DMUNS8       (ushort: 8)
    digtree     DMDA_TREE    (ushort: 7)
    used_by_cnt  DMUNS32      (ulong)
        User and Compacted Tuple Layout   LDPSTR_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                |                               |
 0 |********************************|          gkLDPSTR_G           |
   |---------------+---------------+---------------+---------------|
   |                             | | |                       |       |
 4 |           carrid            |a|*|        screen_x       |*******|
   |---------------+---------------+---------------+---------------|
   |                     |         | |               |             | |
 8 |        tnsc         |  acclen |b|    trignum    |   digtree   |*|
   |---------------+---------------+---------------+---------------|
   |                                                               |
12 |                          used_by_cnt                          |
   |---------------+---------------+---------------+---------------|
      ( 16 bytes )


    carrid      DMBCARID     (ushort: 14)
(a) ii_screen   DMBOOL       (enum: 1)
    screen_x    DMSCRNIDX    (ushort: 12)
    tnsc        DMTNSC       (ushort: 10)
    acclen      DMUNS5       (ushort: 5)
```

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```
(b) ncd          DMBOOL       (enum: 1)
    trignum      DMUNS8       (ushort: 8)
    digtree      DMDA_TREE    (ushort: 7)
    used_by_cnt  DMUNS32       (ulong)
          Stored Tuple Layout     LDPSTR_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                          GK LINK FIELD                        |
   |---------------+---------------+---------------+---------------|
   |                             | | |                       |       |
 4 |           carrid            |a|*|        screen_x       |*******|
   |---------------+---------------+---------------+---------------|
   |                   |         | |               |             | |
 8 |        tnsc       |  acclen |b|    trignum    |   digtree   |*|
   |---------------+---------------+---------------+---------------|
   |                                                               |
12 |                          used_by_cnt                          |
   |---------------+---------------+---------------+---------------|
      ( 16 bytes )
```

## 4. Population rules for RLldpstr_g

### Relation Description

There are no population rules for this relation.

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# LDPTNSC

## 1. Description

This relation contains the LDP Terminating network selection code.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| expected tuples | 400 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
LDPTNSC     relid = 2784  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     tnsc        DMTNSC       (ushort: 10) <--- key, not stored
     screen_x    DMSCRNIDX    (ushort: 12)
     das         DMDA_TREE    (ushort: 7)
     lrndas      DMDA_TREE    (ushort: 7)
         User and Compacted Tuple Layout    LDPTNSC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  0 |        tnsc       |*******************************************|
    |---------------+---------------+---------------+---------------|
    |                       |       |             |             |   |
  4 |        screen_x       |*******|     das     |    lrndas   |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     screen_x    DMSCRNIDX    (ushort: 12)
     das         DMDA_TREE    (ushort: 7)
     lrndas      DMDA_TREE    (ushort: 7)
           Stored Tuple Layout      LDPTNSC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |       |             |             |   |
  0 |        screen_x       |*******|     das     |    lrndas   |***|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population rules for RLldptnsc

### Relation Description

```
        Long Distance Platform Terminating Network Selection Code
        This relation is used to select a DAS/Screening Index
        for incoming calls on MINT trunks.
```

**Attribute:**

```
        tnsc
```

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**Fullname:**
Terminating Network Selection Code
**Attribute Description:**
Used to segregate traffic for MINT signaling

**Attribute:**
das
**Fullname:**
Digit Analysis Selector
**Attribute Description:**
Used for digit analysis

**Attribute:**
screen_x
**Fullname:**
Screening Index
**Attribute Description:**
The screening index

**Attribute:**
lrndas
**Fullname:**
Location Routing Number Digit Analysis Selector
**Attribute Description:**
Digit analysis selector used to analyze the location routing number

**Defines:**

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# LDRMK_R

## 1. Description

Root storage relation for RC_LDRMK.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 46592 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTORAGE |
| head table size | 2048 |
| data page size | 256 |
| foldtype | DBGC31 |
| permutation type | perm |

## 3. Field Layout

```
LDRMK_R     relid = 1694  DBSTORAGE  DBACC_HASH  DBPRAM    LP      RCDATA
     ldit        DMSHORT      (short)  <--- key
     remarks     DMGK16       (ulong: 16)
     rcdigs      DMDIGSTRING  (array [ 15 ] of char )  <--- key, compacted
            User Tuple Layout   LDRMK_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              ldit             |            remarks            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             rcdigs                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
  8 |                             rcdigs                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 12 |                             rcdigs                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                   |           |
 16 |                     rcdigs                        |***********|
    |---------------+---------------+---------------+---------------|
      ( 20 bytes )
     ldit        DMSHORT      (short)  <--- key
     remarks     DMGK16       (ulong: 16)
     rcdigs      DMKDIGSTR    (array [ 8 ] of char )  <--- key, compacted
          Compacted Tuple Layout    LDRMK_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              ldit             |            remarks            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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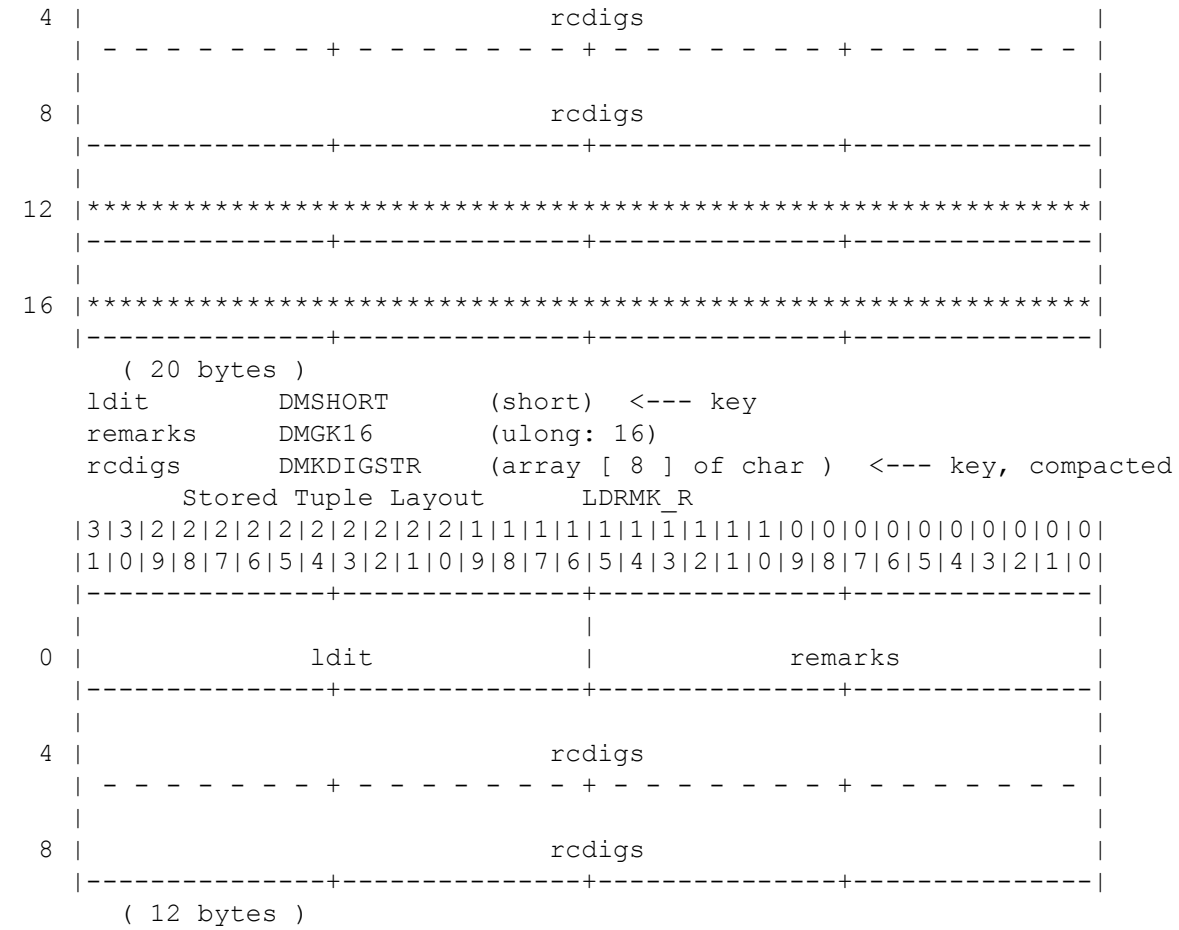


## 4. Population Rules for RLldrmk_r

There are no population rules for this relation.

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# LECCCID

## 1. Description

Local Exchange Carrier credit card issuer ID digits, 2-7 digits. If the number of digits in the key is not adequate to determine the issuer, nxtkey will indicate the number of digits to try next. If number of digits in the key is sufficient to determine the issuer, the number of digits in the issuer identification number, the account number, the check number outside account number, and the PIN number fields will be filled in.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
LECCCID     relid = 2204  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     isstxt      DMCHAR6      (array [ 6 ] of char )
     oaff3       DMUSHORT     (ushort)
     issiddgt    DMCHAR7      (array [ 7 ] of char )     <--- key
     country     DMCHAR3      (array [ 3 ] of char )
     trans_type  DMTRANSTYP   (ushort: 8)
     csr_attr_id  DMUNS8       (ushort: 8)
     carrgrp     DMUNS8       (ushort: 8)
     oaff2       DMUNS8       (ushort: 8)
     oaff4       DMUNS8       (ushort: 8)
     cardtype    DMUNS7       (ushort: 7)
 (a) oaff1       DMBOOL       (enum: 1)
     crd_attr    DMCRDATR     (ushort: 6)
     iccvdbn     DMUNS5       (ushort: 5)
 (b) accnmdgt    DMUNS4       (ushort: 4)
 (c) home_call   DMBOOL       (enum: 1)
 (d) pinnmdgt    DMUNS4       (ushort: 4)
 (e) nxtkey      DMUNS3       (ushort: 3)
 (f) issnmdgt    DMUNS3       (ushort: 3)
 (g) lang_val    DMUNS3       (ushort: 3)
 (h) disposable  DMBOOL       (enum: 1)
 (i) exp_date    DMBOOL       (enum: 1)
 (j) chknmdgt    DMUNS1       (ushort: 1)
        User, Compacted and Stored Tuple Layout    LECCCID
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                            isstxt                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
 4 |             isstxt            |             oaff3             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
 8 |                           issiddgt                            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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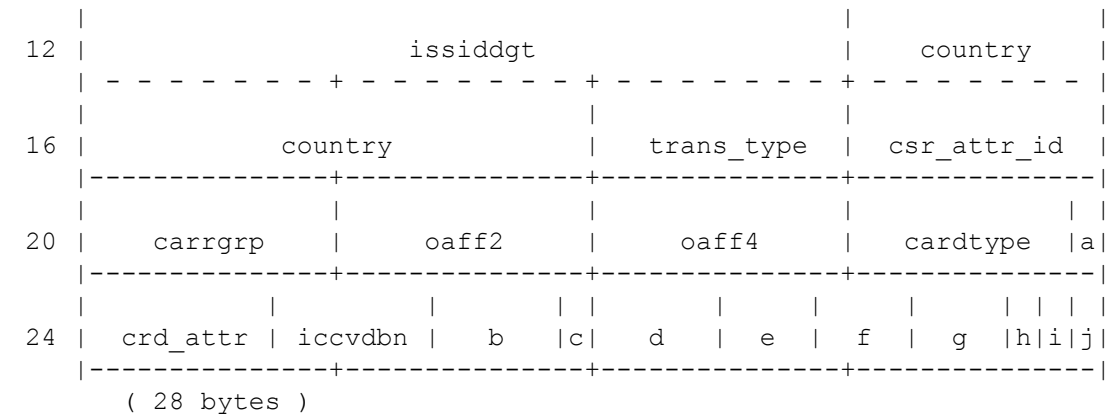


## 4. Population Rules for RLlecccid

**Relation Description**
Local Exchange Carrier Credit Card Identification Table.

This table is a copy of the RLtccid table and is for OSPS Special Feature use.

**Attribute: issiddgt**

**Fullname:** Card Issuer Identification Number

**Attribute Description** Identifies the first 2-7 digits entered in the card issuer identification field.

**Attribute: nxtkey**

**Fullname:** Next key size

**Attribute Description** If more digits are needed to identify a calling card, the nxtkey attribute is used to identify the next size key to be referenced.

**Attribute: issnmdgt**

**Fullname:** Number of digits for issuer identification.

**Attribute Description** Identifies the number of digits entered in the issuer id field

**Attribute: accnmdgt**

**Fullname:** Number of digits for account number

**Attribute Description** Identifies the number of digits entered in the account number field.

**Attribute: chknmdgt**

**Fullname:** Number of digits for check number

**Attribute Description** Identifies the number of digits entered in the check number field.

**Attribute: pinnmdgt**

**Fullname:** Number of digits for personal identification number (PIN).

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**Attribute Description** Identifies the number of digits entered in the PIN field.

**Attribute: trans_type**

**Fullname:** Translation type

**Attribute Description** A query is sent from the 5ESS-2000 switch along the network to a No. 2 signal transfer point (2STP). The 2STP uses the translation type found in the query it received and using internal tables found in the 2STP figures out the proper database to route the query to. The translation type is used during global title translation to map the global title field of the query [card number] into the query destination address.

**Attribute: crd_attr**

**Fullname:** Card Attribute Key

**Attribute Description** Key into relation RLcrd_attr

**Attribute: csr_attr_id**

**Fullname:** Carrier Specific Routing Attribute ID

**Attribute Description** Key into relation RLcsr_attr

**Attribute: country**

**Fullname:** Country Identifier

**Attribute Description** Identifies country of the card issuer.

**Attribute: iccvdbn**

**Fullname:** ICCV Database Number

**Attribute Description** Used as key into RLiccvdb to retrieve software alarm information.

**Attribute: lang_val**

**Fullname:** Language Value

**Attribute Description** Identifies issuer language for card announcements.

**Attribute: home_call**

**Fullname:** Home call

**Attribute Description** If this is an ICCV card, indicates whether home country calls are allowed by this card issuer.

**Attribute: oaff1**

**Fullname:** Spare 1

**Attribute Description** Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

**Attribute: cardtype**

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**Fullname:** Card Type

**Attribute Description** Card type for this card.

**Attribute: disposable**

**Fullname:** Disposable card

**Attribute Description** Indicates whether this card is a disposable card, that is one with a preset balance that is decremented as used and no longer usable once the balance is completely depleted.

**Attribute: carrgrp**

**Fullname:** Carrier Group ID

**Attribute Description** Identification number for the group of carriers which accept this card. Zero means all carriers accept this card.

**Attribute: oaff2**

**Fullname:** Spare 2

**Attribute Description**

Spare field for fast features.

**Attribute: isstxt**

**Fullname:** Issuer ID text

**Attribute Description**

This is the issuer ID text to be displayed on the operator position by the ACCS for CCC feature.

**Attribute: exp_date**

**Fullname:** Expiration date handling specifier

**Attribute Description** This specifies whether the card is to be given expiration date treatment or PIN treatment.

**Attribute: oaff3**

**Fullname:** Spare 3

**Attribute Description** Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

**Attribute: oaff4**

**Fullname:** Spare 4

**Attribute Description** Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

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# LECCRD

## 1. Description

Thsi relation holds the LEC call recognition data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 25000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| foldtype | DBGC31 |

## 3. Field Layout

```
LECCRD      relid = 2054  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     phrase_id   DMPHRASE     (ushort)
     npa         DMUNS10      (ushort: 10)     <--- key
     ospsff2     DMUNS6       (ushort: 6)
     nxx         DMUNS10      (ushort: 10)     <--- key
     ospsff1     DMUNS6       (ushort: 6)
     carrgrp     DMUNS8       (ushort: 8)
     ospsff3     DMUNS8       (ushort: 8)
 (a) blk_900da   DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout LECCRD
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                   |           |
  0 |           phrase_id           |        npa        |  ospsff2  |
    |---------------+---------------+---------------+---------------|
    |                   |           |                 |               |
  4 |        nxx        |  ospsff1  |    carrgrp      |    ospsff3    |
    |---------------+---------------+---------------+---------------|
    | |                                                               |
  8 |a|***************************************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLleccrd

**Relation Description**
Local exchange carrier (LEC) card recognition data

This relation holds the card recognition data for LEC cards. It contains the group ID for those carriers which accept this card for billing purposes.

**Attribute: npa**

**Fullname:** Numbering plan area

**Attribute Description** The area code or RAO of the LEC card.

**Attribute: ospsff1**

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**Fullname:** OSPS spare field 1

**Attribute Description** spare for future development.

**Attribute: nxx**

**Fullname:** Office code

**Attribute Description** Office code of the LEC card. 1000 means all office codes for this NPA.

**Attribute: ospsff2**

**Fullname:** OSPS spare field 2

**Attribute Description** Spare for future development.

**Attribute: carrgrp**

**Fullname:** Carrier Group ID

**Attribute Description** Identification number for a group of carriers which all accept this card for billing. A zero means that all carriers accept this card for billing.

**Attribute: ospsff3**

**Fullname:** OSPS spare field 3

**Attribute Description** Spare for future development.

**Attribute: phrase_id**

**Fullname:** Announcement phrase ID

**Attribute Description** Phrase ID of the announcement to be used for carrier specific branding based on the NPA-NXX of the call. Zero means there is no branding phrase for this NPA-NXX.

**Attribute: blk_900da**

**Fullname:** Block 900 Directory Assistance

**Attribute Description** Indicates whether calls to 900 Directory Assistance (DA) destination numbers are allowed or denied. DBYES means that calls are denied and DBNO means that calls are allowed.

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# LECRNG

## 1. Description

This relation holds the LEC call recognition data ranges.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 512 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
LECRNG      relid = 2055  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     npa          DMUNS10       (ushort: 10)     <--- key
     tupnum       DMUNS8        (ushort: 8)     <--- key
     entries      DMUNS10       (ushort: 10)
     range00      DMRECRNG      (struct)
         begnxx       DMUNS10       (ushort: 10)
         ospsff1      DMUNS6        (ushort: 6)
         endnxx       DMUNS10       (ushort: 10)
         ospsff2      DMUNS6        (ushort: 6)
         carrgrp      DMUNS8        (ushort: 8)
         ospsff3      DMUNS8        (ushort: 8)
         phrase_id    DMPHRASE      (ushort)
 (a)     blk_900da    DMBOOL        (enum: 1)
     range01      DMRECRNG      (struct)
         begnxx       DMUNS10       (ushort: 10)
         ospsff1      DMUNS6        (ushort: 6)
         endnxx       DMUNS10       (ushort: 10)
         ospsff2      DMUNS6        (ushort: 6)
         carrgrp      DMUNS8        (ushort: 8)
         ospsff3      DMUNS8        (ushort: 8)
         phrase_id    DMPHRASE      (ushort)
 (b)     blk_900da    DMBOOL        (enum: 1)
     range02      DMRECRNG      (struct)
         begnxx       DMUNS10       (ushort: 10)
         ospsff1      DMUNS6        (ushort: 6)
         endnxx       DMUNS10       (ushort: 10)
         ospsff2      DMUNS6        (ushort: 6)
         carrgrp      DMUNS8        (ushort: 8)
         ospsff3      DMUNS8        (ushort: 8)
         phrase_id    DMPHRASE      (ushort)
 (c)     blk_900da    DMBOOL        (enum: 1)
     range03      DMRECRNG      (struct)
         begnxx       DMUNS10       (ushort: 10)
         ospsff1      DMUNS6        (ushort: 6)
         endnxx       DMUNS10       (ushort: 10)
         ospsff2      DMUNS6        (ushort: 6)
         carrgrp      DMUNS8        (ushort: 8)
         ospsff3      DMUNS8        (ushort: 8)
```

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```
        phrase_id   DMPHRASE     (ushort)
(d)     blk_900da   DMBOOL       (enum: 1)
    range04     DMRECRNG     (struct)
        begnxx      DMUNS10      (ushort: 10)
        ospsff1     DMUNS6       (ushort: 6)
        endnxx      DMUNS10      (ushort: 10)
        ospsff2     DMUNS6       (ushort: 6)
        carrgrp     DMUNS8       (ushort: 8)
        ospsff3     DMUNS8       (ushort: 8)
        phrase_id   DMPHRASE     (ushort)
(e)     blk_900da   DMBOOL       (enum: 1)
    range05     DMRECRNG     (struct)
        begnxx      DMUNS10      (ushort: 10)
        ospsff1     DMUNS6       (ushort: 6)
        endnxx      DMUNS10      (ushort: 10)
        ospsff2     DMUNS6       (ushort: 6)
        carrgrp     DMUNS8       (ushort: 8)
        ospsff3     DMUNS8       (ushort: 8)
        phrase_id   DMPHRASE     (ushort)
(f)     blk_900da   DMBOOL       (enum: 1)
    range06     DMRECRNG     (struct)
        begnxx      DMUNS10      (ushort: 10)
        ospsff1     DMUNS6       (ushort: 6)
        endnxx      DMUNS10      (ushort: 10)
        ospsff2     DMUNS6       (ushort: 6)
        carrgrp     DMUNS8       (ushort: 8)
        ospsff3     DMUNS8       (ushort: 8)
        phrase_id   DMPHRASE     (ushort)
(g)     blk_900da   DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout LECRNG
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                   |           |               |               |
 0 |        npa        |***********|     tupnum    |***************|
   |---------------+---------------+---------------+---------------|
   |                   |                                           |
 4 |      entries      |*******************************************|
   |===============+=========== range00 ===========+===============|
   |                   |           |                   |           |
 8 |       begnxx      |  ospsff1  |       endnxx      |  ospsff2  |
   |---------------+---------------+---------------+---------------|
   |               |               |                               |
12 |    carrgrp    |    ospsff3    |           phrase_id           |
   |---------------+---------------+---------------+---------------|
   | |                                                             |
16 |a|*************************************************************|
   |===============+=========== range01 ===========+===============|
   |                   |           |                   |           |
20 |       begnxx      |  ospsff1  |       endnxx      |  ospsff2  |
   |---------------+---------------+---------------+---------------|
   |               |               |                               |
24 |    carrgrp    |    ospsff3    |           phrase_id           |
   |---------------+---------------+---------------+---------------|
```

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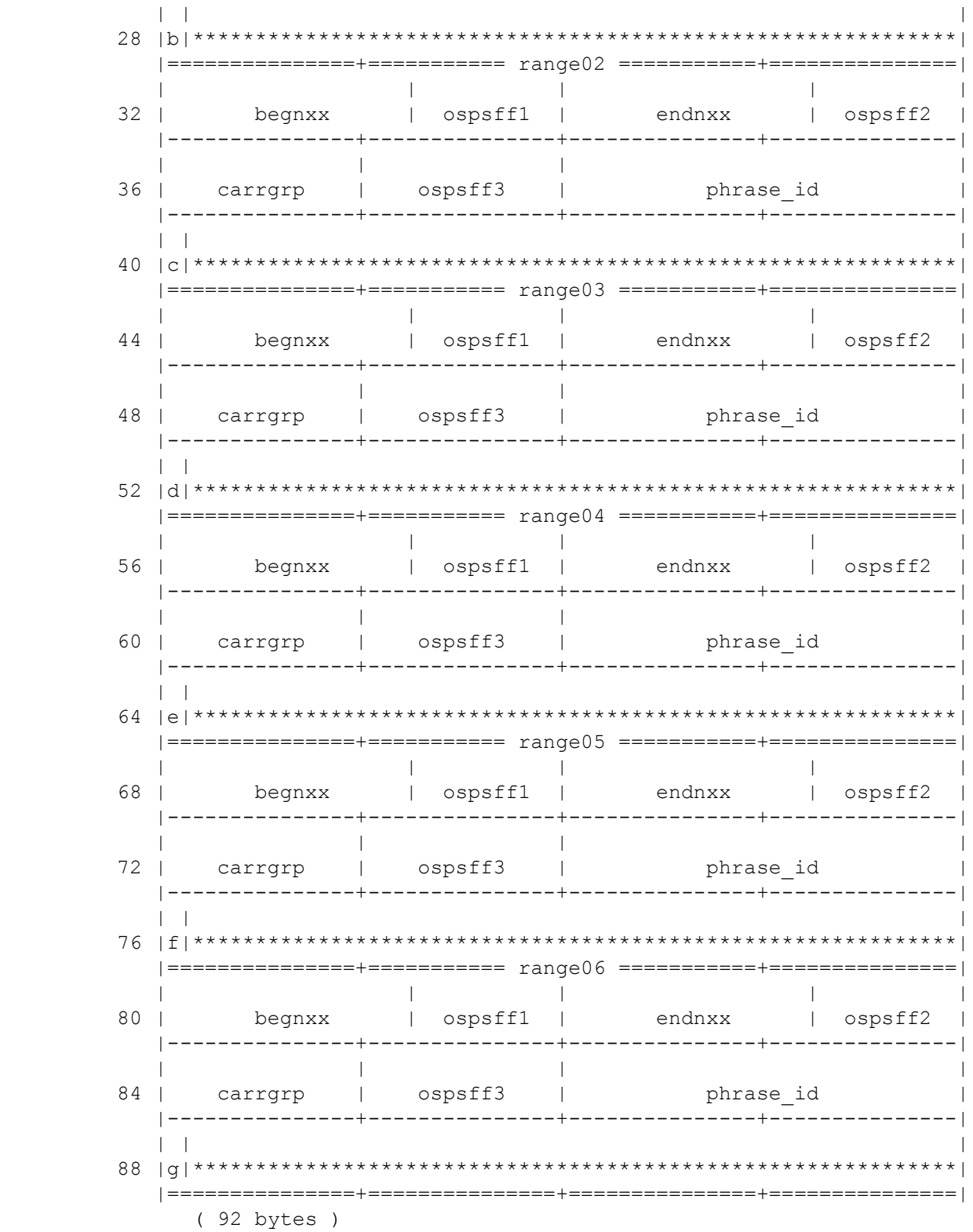


```
      ( 92 bytes )
domain alLECRNG   struct  (4 sub-attributes)
         npa         .9.fake      (ushort: 10)
         tupnum      .10.fake     (ushort)
         entries     .11.fake     (ushort: 10)
         rangexx     .12.fake     (array [ 7 ] of .1fake )
```

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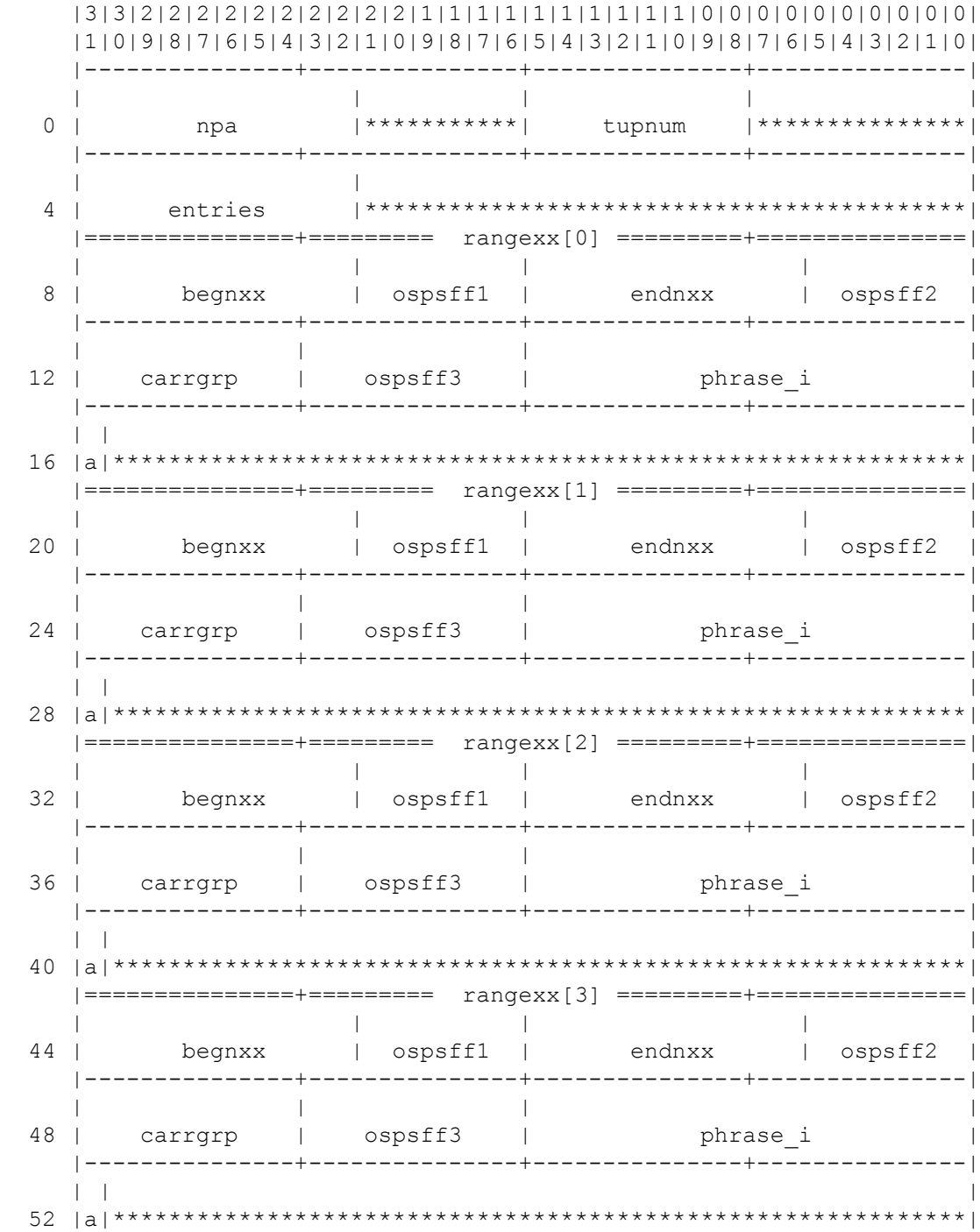
```
            begnxx      .0.fake      (ushort: 10)
            ospsff1     .1.fake      (ushort: 6)
            endnxx      .2.fake      (ushort: 10)
            ospsff2     .3.fake      (ushort: 6)
            carrgrp     .4.fake      (ushort)
            ospsff3     .5.fake      (ushort)
            phrase_id   unsigned short (ushort)
(a)         blk_900da   .0fake       (enum)
```

Structure Layout alLECRNG

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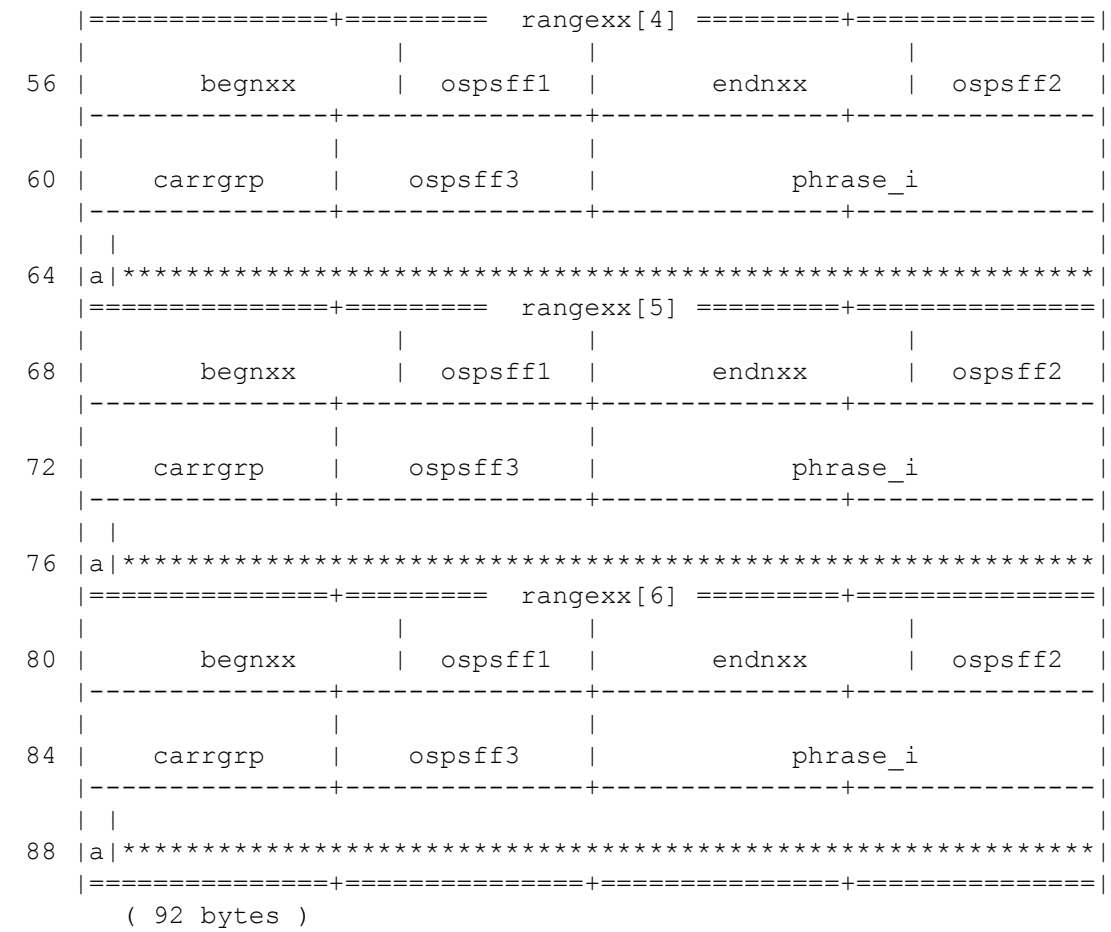


## 4. Population Rules for RLlecrng

**Relation Description**
Local exchange carrier (LEC) card recognition data ranges

This relation holds the card recognition data for LEC cards in ranges of NXXs based on NPA/RAO-NXX card identification. For each range, it contains the group ID for those carriers which accept this range of cards for billing purposes.

**Attribute: npa**

**Fullname:** NPA

**Attribute Description** The area code or RAO of the LEC card.

**Attribute: tupnum**

**Fullname:** Tuple number

**Attribute Description** A number indicating which tuple of ranges for an NPA this one is.

**Attribute: entries**

**Fullname:** Entries

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**Attribute Description** The number of entries in the arrays of ranges. This counts all of the entries filled in all of the tuples with the same NPA.

**Attribute: range[*]**

**Fullname:** Range

**Attribute Description** Each attribute contains the beginning and ending NXX numbers plus the cardtype for these NXXs.

**Attribute: range[*].begnxx**

**Fullname:** Beginning NXX

**Attribute Description** The first NXX number in the range of NXXs.

**Attribute: range[*].ospsff1**

**Fullname:** OSPS spare field 1

**Attribute Description** This attribute is for fast/special features.

**Attribute: range[*].endnxx**

**Fullname:** Ending NXX

**Attribute Description** The last NXX number in the range of NXXs.

**Attribute: range[*].ospsff2**

**Fullname:** OSPS spare field 2

**Attribute Description** This attribute is for fast/special features.

**Attribute: range[*].carrgrp**

**Fullname:** Carrier Group ID

**Attribute Description** Identification number for a group of carriers which all accept this range of cards for billing. A zero means that all carriers accept this card for billing for this NXX range.

**Attribute: range[*].ospsff3**

**Fullname:** OSPS spare field 3

**Attribute Description** This attribute is for fast/special features.

**Attribute: range[*].phrase_id**

**Fullname:** Announcement phrase ID

**Attribute Description** Phrase ID of the announcement to be used for carrier specific branding based on the NPA-NXX of the call. Zero means there is no branding phrase for this NPA-NXX.

**Attribute: range[*].blk_900da**

**Fullname:** Block 900 DA

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**Attribute Description** Indicates whether calls to 900 Directory Assistance (DA) Destination Numbers (DN) are allowed or denied.

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# LECTEXT

## 1. Description

This relation contains the LEC-specific text to be displayed to an operator when a call comes to an OSPS operator position.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2002 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
LECTEXT     relid = 1011  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     lecidx      DMLECTXT     (ushort: 11)  <--- key, not stored
     lectext     DMCIDTEXT    (array [ 116 ] of char )
         User and Compacted Tuple Layout    LECTEXT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
  0 |         lecidx        |***************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            lectext                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                            lectext                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                    .
                                    .
                                    .
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
112 |                            lectext                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
116 |                            lectext                            |
    |---------------+---------------+---------------+---------------|
       ( 120 bytes )
         lectext     DMCIDTEXT    (array [ 116 ] of char )
           Stored Tuple Layout      LECTEXT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                            lectext                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                            lectext                            |
```

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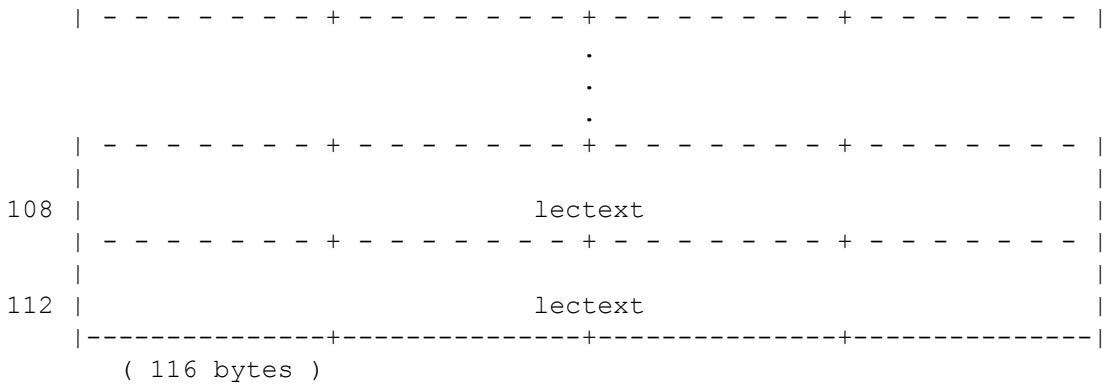


## 4. Population Rules for RLlectext

**Relation Description**
Local exchange carrier (LEC) text. This relation contains the LEC-specific text to be displayed to an operator when a call comes to an OSPS operator position.

**Attribute: lecidx**

**Fullname:** LEC index

**Attribute Description** This is the key for the relation. It is an index retrieved from RLtgnlec. The value of the domain for lecidx is the range 0-2001, but 2000 & 2001 are reserved, so RC and ODA should only accept values 0-1999. ODBE should accept 0-2001.

**Attribute: lectext**

**Fullname:** LEC text

**Attribute Description** This is the text which is to be displayed on the VDT. It consists of up to 116 printing ASCII characters which will be displayed at the VDT as 4 lines of 29 characters each. There is no default value for this attribute; however, this attribute must contain at least one non-null character.

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# LECTREAT

## 1. Description

Holds the LEC call recognition data treatment tables.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
LECTREAT    relid = 2082  DBSTATIC   DBACC_LIN   DBPRAM    FG      NULL
 (a) treat_type  DMUNS5       (ushort: 5)     <--- key
     spare1      DMUNS11      (ushort: 11)
     spare2      DMUSHORT     (ushort)
     svc00       DMUSHORT     (ushort)
     svc01       DMUSHORT     (ushort)
     svc02       DMUSHORT     (ushort)
     svc03       DMUSHORT     (ushort)
     svc04       DMUSHORT     (ushort)
     svc05       DMUSHORT     (ushort)
     svc06       DMUSHORT     (ushort)
     svc07       DMUSHORT     (ushort)
     rep00       DMUSHORT     (ushort)
     rep01       DMUSHORT     (ushort)
     rep02       DMUSHORT     (ushort)
     rep03       DMUSHORT     (ushort)
     rep04       DMUSHORT     (ushort)
     rep05       DMUSHORT     (ushort)
     rep06       DMUSHORT     (ushort)
     rep07       DMUSHORT     (ushort)
     rep08       DMUSHORT     (ushort)
     rep09       DMUSHORT     (ushort)
     rep10       DMUSHORT     (ushort)
     rep11       DMUSHORT     (ushort)
     rep12       DMUSHORT     (ushort)
     rep13       DMUSHORT     (ushort)
     rep14       DMUSHORT     (ushort)
     rep15       DMUSHORT     (ushort)
     rep16       DMUSHORT     (ushort)
     rep17       DMUSHORT     (ushort)
     rep18       DMUSHORT     (ushort)
     rep19       DMUSHORT     (ushort)
     rep20       DMUSHORT     (ushort)
     rep21       DMUSHORT     (ushort)
     rep22       DMUSHORT     (ushort)
     rep23       DMUSHORT     (ushort)
     rep24       DMUSHORT     (ushort)
     rep25       DMUSHORT     (ushort)
```

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```
    rep26       DMUSHORT     (ushort)
    rep27       DMUSHORT     (ushort)
    rep28       DMUSHORT     (ushort)
    rep29       DMUSHORT     (ushort)
    rep30       DMUSHORT     (ushort)
    rep31       DMUSHORT     (ushort)
        User, Compacted and Stored Tuple Layout   LECTREAT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |         |                     |                               |
 0 |    a    |        spare1       |             spare2            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |             svc00             |             svc01             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |             svc02             |             svc03             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |             svc04             |             svc05             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |             svc06             |             svc07             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |             rep00             |             rep01             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
24 |             rep02             |             rep03             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
28 |             rep04             |             rep05             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
32 |             rep06             |             rep07             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
36 |             rep08             |             rep09             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
40 |             rep10             |             rep11             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
44 |             rep12             |             rep13             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
48 |             rep14             |             rep15             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
52 |             rep16             |             rep17             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
56 |             rep18             |             rep19             |
```

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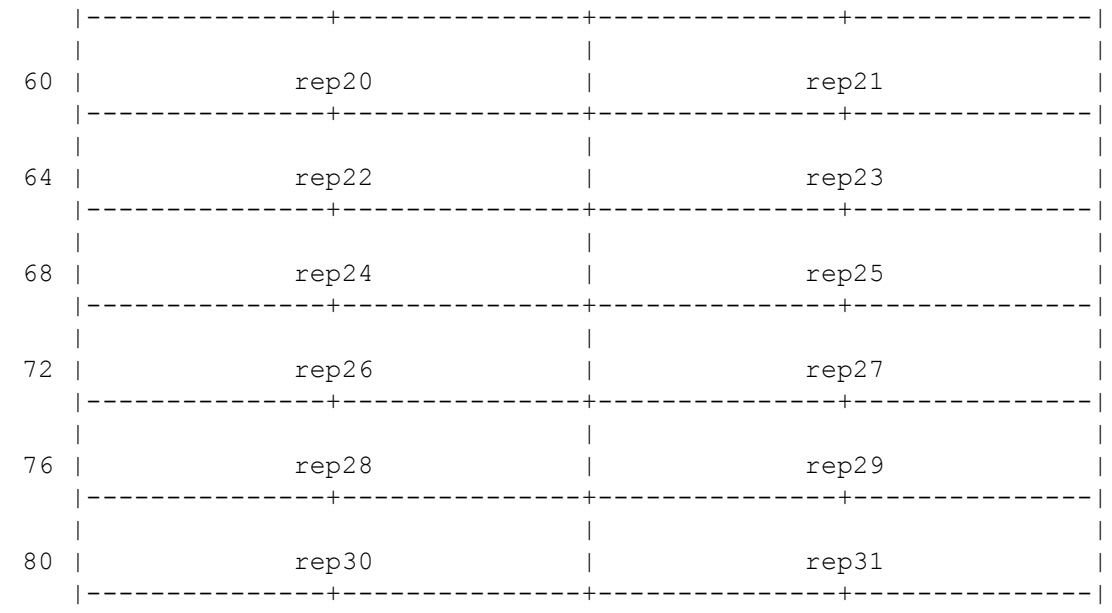
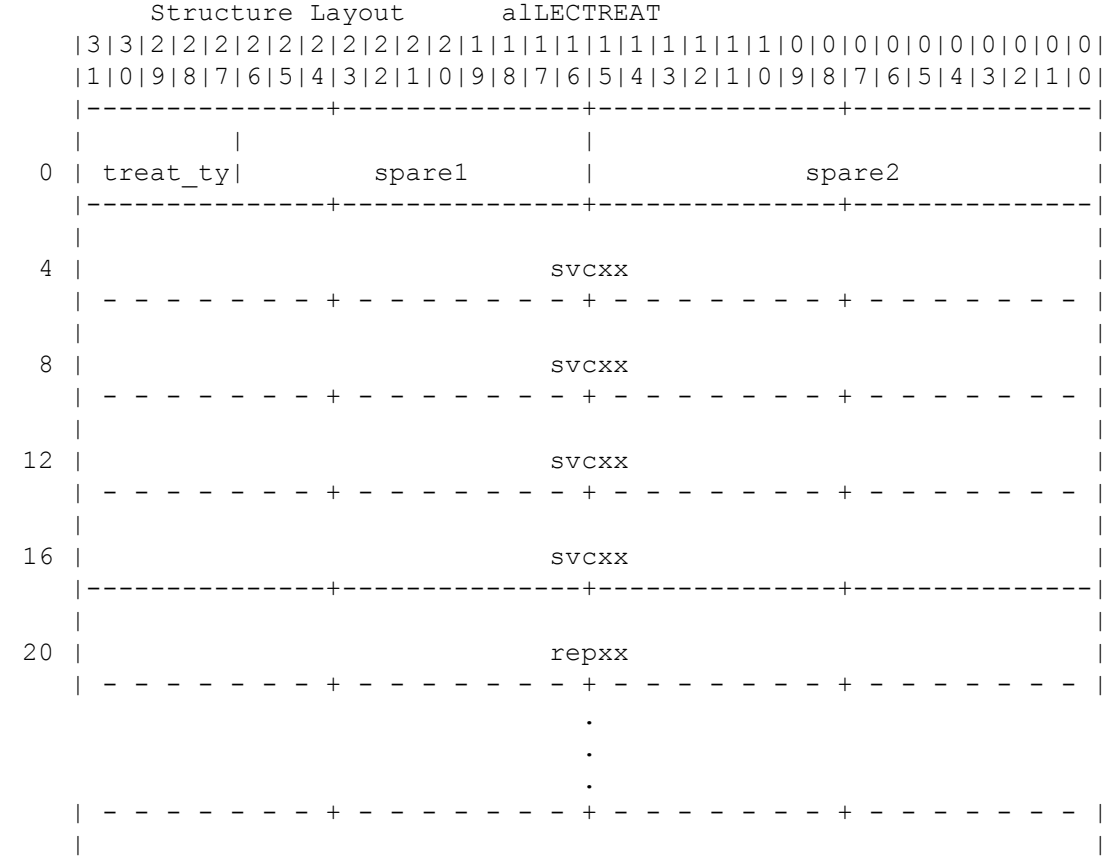



```
   ( 84 bytes )
  domain alLECTREAT   struct  (5 sub-attributes)
(a)     treat_type  .2.fake      (ushort: 5)
        spare1      .3.fake      (ushort: 11)
        spare2      unsigned short (ushort)
        svcxx       .4.fake      (array [ 8 ] of unsigned short )
        repxx       .5.fake      (array [ 32 ] of unsigned short )
```

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```
 80 |                              repxx                                |
    |---------------+---------------+---------------+---------------|
       ( 84 bytes )
```

## 4. Population Rules for RLlectreat

**Relation Description**
Local exchange carrier (LEC) company treatment tables

Holds the treatment tables for LEC calls. This data is spare. When a feature is committed, these poprules will be refined.

**Attribute: treat_type**

**Fullname:** Treatment type

**Attribute Description** Number of the treatment table contained in this tuple.

**Attribute: spare1**

**Fullname:** Spare 1

**Attribute Description** Spare field.

**Attribute: spare2**

**Fullname:** Spare 2

**Attribute Description** Spare field.

**Attribute: svc[*]**

**Fullname:** Service

**Attribute Description** Each attribute contains a bit map of treatments based on class of charge service group.

**Attribute: rep[*]**

**Fullname:** Reply

**Attribute Description** Each attribute contains a bit map of treatments based on query reply types.

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# LGRPMEM

## 1. Description

This relation consist of information on a particular link group and member.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 4096 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ks key store option | AUTO |

## 3. Field Layout

```
LGRPMEM     relid = 2514  DBSTATIC   DBACC_CIND  DBPRAM    LRFP    NULL
     lnkgrp      DMUNS8       (ushort: 8)     <--- key, not stored
     member      DMUNS4       (ushort: 4)     <--- key, not stored
     sdl_port    DMPORT       (ushort)
     trkgrp      DMGRPNUM     (ushort)
     trkmem      DMMEMBER     (ushort)
     cic         DMCIC        (ushort: 14)
 (a) pre_sdl     DMBOOL       (enum: 1)
     sdl_sm      DMMODULE     (ushort: 8)
     rting_module  DMMODULE     (ushort: 8)
     lptype      DMLPTYPE     (enum: 7)
     dfinum      DMUNS5       (ushort: 5)
 (b) unitnum     DMUNS3       (ushort: 3)
         User and Compacted Tuple Layout    LGRPMEM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |       |                                       |
  0 |     lnkgrp    | member|***************************************|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  4 |             sdl_port            |              trkgrp           |
    |---------------+---------------+---------------+---------------|
    |                                 |                             | | |
  8 |              trkmem             |            cic              |a|*|
    |---------------+---------------+---------------+---------------|
    |               |               |               |         |     | |
 12 |     sdl_sm    |  rting_module |    lptype     |  dfinum |  b  |*|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
     sdl_port    DMPORT       (ushort)
     trkgrp      DMGRPNUM     (ushort)
     trkmem      DMMEMBER     (ushort)
     cic         DMCIC        (ushort: 14)
```

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```
(a) pre_sdl      DMBOOL       (enum: 1)
    sdl_sm       DMMODULE     (ushort: 8)
    rting_module  DMMODULE      (ushort: 8)
    lptype       DMLPTYPE     (enum: 7)
    dfinum       DMUNS5       (ushort: 5)
(b) unitnum      DMUNS3       (ushort: 3)
          Stored Tuple Layout      LGRPMEM
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            sdl_port           |             trkgrp            |
   |---------------+---------------+---------------+---------------|
   |                               |                           | | |
 4 |              trkmem           |            cic            |a|*|
   |---------------+---------------+---------------+---------------|
   |               |               |              |         |     | |
 8 |     sdl_sm    |  rting_module |    lptype    |  dfinum |  b  |*|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population Rules for RLlgrpmem

**Relation Description**
Link group and member

This relation defines the set of spare SdLs for a Signaling Link to be used when the predefined(default) SdL fails. This relation resides in the AM and in the Global SMs as defined by the global parameters Glnatl7sm and Glintl7sm.

**Attribute: member**

**Fullname:** Link group member

**Attribute Description** Link group member.

**Attribute: lnkgrp**

**Fullname:** Link group number

**Attribute Description** Link group defines the set of spare SdLs to use when the predefined (default) SDL fails.

**Attribute: rting_module**

**Fullname:** Routing Module

**Attribute Description**This attribute defines the Routing Module for the trunk group to which the trunk represented by this tuple belongs. It is set to zero for tuples representing Signalling Links.

**Attribute: sdl_sm**

**Fullname:** Switching module where the signaling data link (SDL) resides

**Attribute Description** This attribute defines the SM number where the SDL resides.

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**Attribute: sdl_port**

**Fullname:** Signaling Data Link port number

**Attribute Description** This attribute defines the Signaling Data Link port number.

**Attribute: pre_sdl**

**Fullname:** Predefined SDL

**Attribute Description** This attribute defines if this SDL has been designated as a pre-defined SDL or not.

**Attribute: lptype**

**Fullname:** Logical port type

**Attribute Description** This attribute defines the logical port type of the SDL port.

**Attribute: trkgrp**

**Fullname:** Trunk group number

**Attribute Description** This attribute defines the trunk group number. The trunk group range for BT is 1 thru 4095 and for all other countries, the range is 1 thru AVTRKGRPS().

**Attribute: trkmem**

**Fullname:** Trunk group member number

**Attribute Description** This attribute defines the trunk group member number.

**Attribute: unitnum**

**Fullname:** Hardware Unit Number

**Attribute Description** This attribute defines the hardware unit number.

**Attribute: dfinum**

**Fullname:** Digital Facility Interface Number

**Attribute Description** This attribute defines the Digital Facility Interface (DFI) number.

**Attribute: cic**

**Fullname:** Circuit Identification Code

**Attribute Description** This attribute defines the Circuit Identification code.

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# LID_CF

## 1. Description

This relation contains the ISDN line identification constructed feature options - used in SM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 1024 |
| expected number of tuples | 18 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |
| l1 length of subkey 1 | 10 |
| p1 position of subkey 1 | 6 |
| ignore key bits | 0-5 |

## 3. Field Layout

```
LID_CF      relid = 828   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     feat_id     DMMCC_FID    (ushort)     <--- key
     ffcf14      DMUSHORT     (ushort)
     ffcf15      DMUCHAR      (uchar)
     actvn       DMMC_ACTYP   (enum: 3)
 (a) dctvn       DMMC_DCTYP   (enum: 2)
 (b) cnd_prim    DMBOOL       (enum: 1)
 (c) cnd_all     DMBOOL       (enum: 1)
 (d) oclid       DMBOOL       (enum: 1)
 (e) ama_rec     DMBOOL       (enum: 1)
 (f) cnam        DMBOOL       (enum: 1)
 (g) cnam_ama    DMBOOL       (enum: 1)
 (h) ffcf1       DMBOOL       (enum: 1)
 (i) ffcf2       DMBOOL       (enum: 1)
 (j) ffcf3       DMBOOL       (enum: 1)
 (k) ffcf4       DMBOOL       (enum: 1)
 (l) ffcf5       DMBOOL       (enum: 1)
 (m) ffcf6       DMBOOL       (enum: 1)
 (n) ffcf7       DMBOOL       (enum: 1)
 (o) ffcf8       DMBOOL       (enum: 1)
 (p) ffcf9       DMBOOL       (enum: 1)
 (q) ffcf10      DMBOOL       (enum: 1)
 (r) ffcf11      DMBOOL       (enum: 1)
 (s) ffcf12      DMBOOL       (enum: 1)
 (t) ffcf13      DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout LID_CF
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            feat_id            |             ffcf14            |
   |---------------+---------------+---------------+---------------|
   |               |     |   | | | | | | | | | | | | | | | | | | |
 4 |     ffcf15    |actvn| a |b|c|d|e|f|g|h|i|j|k|l|m|n|o|p|q|r|s|t|
   |---------------+---------------+---------------+---------------|
```

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```
       ( 8 bytes )
```

## 4. Population Rules for RLlid_cf

**Relation Description**
Line identification constructed feature

Line identification constructed feature options - used in SM.

Valid service classes for lines assigned this feature are:

FC_ISDN, FC_ISATND, FC_ATTENDANT, FC_INDVDL, FC_4WIRE_INDV, FC_911, FC_PBX

```
PRE-CONSTRUCTED FEATURES
------------------------
NAME:     /LI*           Line Identification Wild-Card Feature
actvn:          ACTNONE
dctvn:          DCTNONE
cnd_prim:       DBNO
cnd_all:        DBNO
oclid:          DBNO
ama_rec:        DBNO
cnam:           DBNO
cnam_ama:       DBNO
NAME:     /LICNDP       Calling Number Delivery (ICLID) Primary Terminal
                          Only Feature
actvn:          ACTNONE
dctvn:          DCTNONE
cnd_prim:       DBYES
cnd_all:        DBNO
oclid:          DBNO
ama_rec:        DBNO
cnam:           DBNO
cnam_ama:       DBNO
NAME:     /LIDADP        Calling Number Delivery (ICLID) Primary Terminal
                           Only Feature Activation and Deactivation
actvn:          ACTCD
dctvn:          DCTCD
cnd_prim:       DBYES
cnd_all:        DBNO
oclid:          DBNO
ama_rec:        DBYES
cnam:           DBNO
cnam_ama:       DBNO
NAME:     /LICNDA      Calling Number Delivery (ICLID) All Terminals  Feature
actvn:          ACTNONE
dctvn:          DCTNONE
cnd_prim:       DBNO
cnd_all:        DBYES
oclid:          DBNO
ama_rec:        DBNO
cnam:           DBNO
cnam_ama:       DBNO
NAME:     /LIDADA       Calling Number Delivery (ICLID) All Terminals
                          Feature Activation and Deactivation
```

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```
actvn:          ACTCD
dctvn:          DCTCD
cnd_prim:       DBNO
cnd_all:        DBYES
oclid:          DBNO
ama_rec:        DBYES
cnam:           DBNO
cnam_ama:       DBNO
NAME:     /LIOCLID      Outgoing Call ID (OCLID) Feature
actvn:          ACTNONE
dctvn:          DCTNONE
cnd_prim:       DBNO
cnd_all:        DBNO
oclid:          DBYES
ama_rec:        DBNO
cnam:           DBNO
cnam_ama:       DBNO
NAME:     /LIDLXP       ICLID Primary Terminal Only and OCLID Feature
actvn:          ACTNONE
dctvn:          DCTNONE
cnd_prim:       DBYES
cnd_all:        DBNO
oclid:          DBYES
ama_rec:        DBNO
cnam:           DBNO
cnam_ama:       DBNO
NAME:     /LIDADPO     ICLID Primary Terminal Only and OCLID Feature
                         Activation and Deactivation
actvn:          ACTCD
dctvn:          DCTCD
cnd_prim:       DBYES
cnd_all:        DBNO
oclid:          DBYES
ama_rec:        DBYES
cnam:           DBNO
cnam_ama:       DBNO
NAME:     /LIDLXA      ICLID All Terminals and OCLID Feature
actvn:          ACTNONE
dctvn:          DCTNONE
cnd_prim:       DBNO
cnd_all:        DBYES
oclid:          DBYES
ama_rec:        DBNO
cnam:           DBNO
cnam_ama:       DBNO
NAME:   /LIDADAO       ICLID All Terminals and OCLID Feature
                         Activation and Deactivation
actvn:          ACTCD
dctvn:          DCTCD
cnd_prim:       DBNO
cnd_all:        DBYES
oclid:          DBYES
ama_rec:        DBYES
cnam:           DBNO
```

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```
cnam_ama:       DBNO
NAME:   /LIRCNMA       Calling Name Delivery and Calling Number
                         Delivery (ICLID) All Terminals Feature
actvn:          ACTNONE
dctvn:          DCTNONE
cnd_prim:       DBNO
cnd_all:        DBYES
oclid:          DBNO
ama_rec:        DBNO
cnam:           DBYES
cnam_ama:       DBNO
NAME:   /LIRCNMP       Calling Name Delivery and Calling Number
                         Delivery (ICLID) Primary Terminal Only Feature
actvn:           ACTNONE
dctvn:          DCTNONE
cnd_prim:       DBYES
cnd_all:        DBNO
oclid:          DBNO
ama_rec:        DBNO
cnam:           DBYES
cnam_ama:       DBNO
NAME:   /LIRDNMA       Calling Name Delivery and Calling Number
                         Delivery (ICLID) All Terminals Feature
                         Activation and Deactivation
actvn:          ACTCD
dctvn:          DCTCD
cnd_prim:       DBNO
cnd_all:        DBYES
oclid:          DBNO
ama_rec:        DBYES
cnam:           DBYES
cnam_ama:       DBNO
NAME:   /LIRDNMP       Calling Name Delivery and Calling Number
                         Delivery (ICLID) Primary Terminal Only Feature
                         Activation and Deactivation
actvn:          ACTCD
dctvn:          DCTCD
cnd_prim:       DBYES
cnd_all:        DBNO
oclid:          DBNO
ama_rec:        DBYES
cnam:           DBYES
cnam_ama:       DBNO
NAME:   /LIRDNMU       Calling Name Delivery (Usage Sensitive) and Calling
                         Number Delivery (Usage Sensitive) (ICLID) All Terminals
                         Feature Activation and Deactivation
actvn:          ACTCD
dctvn:          DCTCD
cnd_prim:       DBNO
cnd_all:        DBYES
oclid:          DBNO
ama_rec:        DBYES
cnam:           DBYES
cnam_ama:       DBYES
```

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```
NAME:   /LIRDAMU       Calling Name Delivery (Usage Sensitive) and Calling
                         Number Delivery (Flat Rate) (ICLID) All Terminals
                         Feature Activation and Deactivation
actvn:          ACTCD
dctvn:          DCTCD
cnd_prim:       DBNO
cnd_all:        DBYES
oclid:          DBNO
ama_rec:        DBNO
cnam:           DBYES
cnam_ama:       DBYES
NAME:   /LIRMA         Calling Name Only Delivery Feature (Flat Rate)
actvn:          ACTNONE
dctvn:          DCTNONE
cnd_prim:       DBNO
cnd_all:        DBNO
oclid:          DBNO
ama_rec:        DBNO
cnam:           DBYES
cnam_ama:       DBNO
NAME:   /LIRMDU        Calling Name Only Delivery Feature (Usage Sensitive)
                         Activation and Deactivation
actvn:          ACTCD
dctvn:          DCTCD
cnd_prim:       DBNO
cnd_all:        DBNO
oclid:          DBNO
ama_rec:        DBNO
cnam:           DBYES
cnam_ama:       DBYES
```

**Attribute: feat_id**

**Fullname:** display constructed feature id

**Attribute Description** A BRCS constructed feature id consisting of a modular feature type and a unique identifier. For a line id constructed feature, the modular feature type is MFLID which is an enumeration of type DMMFTYPE. The unique identifier ranges from 1 to 1023. The feature id must have a class of FACBRCS and a subclass of SCL_FEAT.

```
RLfacname must have a tuple such that:
RLfacname.facid = feat_id
RLfacname.class = FACBRCS
RLfacname.subclass = SCL_FEAT
```

**Attribute: actvn**

**Fullname:** activation method

**Attribute Description** This is an enumeration of type DMMC_ACTYP. These features are always active (customer cannot activate via a dialed code or feature button) for 5E4(2) so that actvn always has the value ACTNONE. For 5E5, these features can be activated via a dialed code or feature button.

If actvn is set to ACTNONE, dctvn must be set to DCTNONE. If actvn is set to ACTCD, dctvn must be set to DCTCD.

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**Attribute: dctvn**

**Fullname:** deactivation method

**Attribute Description** This is an enumeration of type DMMC_DCTYP. These features are always active (customer cannot deactivate via a dialed code or feature button) for 5E4(2) so that dctvn always has the value DCTNONE. For 5E5, these features can be deactivated via a dialed code or feature button.

If dctvn is set to DCTNONE, actvn must be set to ACTNONE. If dctvn is set to DCTCD, actvn must be set to ACTCD.

**Attribute: cnd_prim**

**Fullname:** calling number delivery to primary DN only

**Attribute Description**Boolean value indicating that the calling directory number should be sent to only the terminal where the called DN is primary. (If the DN is not primary, then the lead port for this DN can have this option.) If this is a shared DN, only the terminal where the DN is primary (or is lead port) will receive the data associated with the incoming call. The terminals sharing the DN will not receive the data. The data displayed will consist of the call appearance identifier, the calling DN, the ISDN call identifier, the time and date, and the originating permissions (if the called party is an attendant serving the calling DN). This option can be assigned to any ltport on an ISDN terminal or shared analog line (class of service = FC_ISDN, FC_ISATND or FC_INDVDL).

In addition to assigning cnd_prim=DBYES, RLis_term.display must be DBYES for display information to be sent in the Display IE for a BRI CPE.

Dependencies: Cnd_prim and cnd_all cannot both have the value of DBYES. Also, if the called DN has an EDS constructed feature, then RLeds_cf.nd_prim and RLeds_cf.nd_dn must agree with the cnd_prim and cnd_all options. If cnd_prim has the value DBYES, then RLeds_cf.nd_prim can have the value DBYES or DBNO and RLeds_cf.nd_dn must have the value DBNO.

**Attribute: cnd_all**

**Fullname:** calling number delivery for all DNs

**Attribute Description** Boolean value indicating that the calling directory number should be sent to all the terminals that have the called DN. This option can be used with shared or non-shared DNs, but its effect is only seen with shared DNs. When this option is assigned to a shared DN, all terminals having the called DN can receive the data associated with the incoming call. The data displayed will consist of the call appearance identifier, the calling DN, the ISDN call identifier, the time and date, and the originating permissions (if the called party is an attendant serving the calling DN). This option can be assigned to any ltport on an ISDN terminal or shared analog line (class of service = FC_ISDN, FC_ISATND or FC_INDVDL).

In addition to assigning cnd_all=DBYES, RLis_term.display must be DBYES for display information to be sent in the Display IE for a BRI CPE.

For a standard BRI (RLdslequip.briclass == BRI_STD), RLlid_cf.cnd_all must be DBYES to have the calling DN sent in the Q.931 Display Text IE. The Standard Display feature provides the standard display information and will include the calling DN if RLlid_cf.cnd_all == DBYES. RLlid_cf.cnd_all is considered a DN feature which means the calling DN will only be shown on call appearances associated with DNs assigned RLlid_cf.cnd_all == DBYES. The standard display feature must be assigned (RLis_term.display == DBYES). If calling number delivery is assigned

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and standard display is not assigned (RLis_term.display == DBNO), then no displays will be sent. This dependency is not enforced during assignment.

Dependencies: Cnd_prim and cnd_all cannot both have the value of DBYES. Also, if the called DN has an EDS constructed feature, then RLeds_cf.nd_prim and RLeds_cf.nd_dn must agree with the cnd_prim and cnd_all options. If cnd_all has the value DBYES, then RLeds_cf.nd_all can have the value DBYES or DBNO and RLeds_cf.nd_prim must have the value DBNO.

**Attribute: oclid**

**Fullname:** outgoing called line id

**Attribute Description** Boolean value indicating that the OCLID display is allowed. When this option is selected, the data associated with the called DN will be displayed to the calling party. The data displayed consists of the call appearance identifier, the called DN, the ISDN call identifier, and the originating permissions of the called party (if the calling party is an attendant serving the called DN). This option can be assigned to any ltport on an ISDN terminal (class of service = FC_ISDN or FC_ISATND).

In addition to assigning oclid=DBYES, RLis_term.display must be DBYES for display information to be sent in the Display IE for a BRI CPE.

For a standard BRI (RLdslequip.briclass == BRI_STD), RLlid_cf.oclid is not referenced. The Standard Display feature allows displays to appear for both outgoing and incoming calls. The OCLID feature should not be assigned to a standard BRI, because software ignores the value assigned to RLlid_cf.oclid. This dependency is not enforced during assignment.

**Attribute: ama_rec**

**Fullname:** billing type

**Attribute Description** Type of billing to be performed. This is a value of type DMBOOL. Billing can be done on a flat rate or usage sensitive basis according to how the subscribing user prefers to be billed. If ama_rec is set to DBYES, billing will be done on a usage sensitive basis. If it is set to DBNO, billing will be done on a flat rate basis.

**Attribute: cnam**

**Fullname:** Calling Name Delivery Feature Active Bit

**Attribute Description** Boolean value used to specify whether or not an ICLID CNAM feature is assigned to the terminating line.

This attribute is used by the Analog Calling Name Delivery Special Feature (SFID 040) and by Calling Name for BRI (SFID 225). It cannot be equal to 'DBYES' for constructed features unless the feature has been purchased (SFID 040 or SFID 225 is set) for the office.

**Attribute: cnam_ama**

**Fullname:** Calling Name Delivery, AMA Billing Bit

**Attribute Description** Boolean used to specify whether to use flat rate or usage sensitive billing for Calling Name Delivery. If cnam_ama is DBYES, billing will be done on a usage sensitive basis. If it is set to DBNO, billing will be done on a flat rate basis.

This attribute is used by the Calling Name Delivery Special Feature (SFID40) and by Calling Name

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for BRI (SFID 225).

**Attribute: ffcf1**

**Fullname:** Boolean reserved for future field feature use.

**Attribute Description** see fullname description.

**Attribute: ffcf2**

**Fullname:** Boolean reserved for future field feature use.

**Attribute Description** see fullname description.

**Attribute: ffcf3**

**Fullname:** Boolean reserved for future field feature use.

**Attribute Description** see fullname description.

**Attribute: ffcf4**

**Fullname:** Boolean reserved for future field feature use.

**Attribute Description** see fullname description.

**Attribute: ffcf5**

**Fullname:** Boolean reserved for future field feature use.

**Attribute Description** See fullname description.

**Attribute: ffcf6**

**Fullname:** Boolean reserved for future field feature use.

**Attribute Description** See fullname description.

**Attribute: ffcf7**

**Fullname:** Boolean reserved for future field feature use.

**Attribute Description** See fullname description.

**Attribute: ffcf8**

**Fullname:** Boolean reserved for future field feature use.

**Attribute Description** See fullname description.

**Attribute: ffcf9**

**Fullname:** Boolean reserved for future field feature use.

**Attribute Description** See fullname description.

**Attribute: ffcf10**

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**Fullname:** Boolean reserved for future field feature use.

**Attribute Description**See fullname description.

**Attribute: ffcf11**

**Fullname:** Boolean reserved for future field feature use.

**Attribute Description** See fullname description.

**Attribute: ffcf12**

**Fullname:** Boolean reserved for future field feature use.

**Attribute Description** See fullname description.

**Attribute: ffcf13**

**Fullname:** Boolean reserved for future field feature use.

**Attribute Description** See fullname description.

**Attribute: ffcf14**

**Fullname:** Unsigned short reserved for future field feature use.

**Attribute Description** See fullname description.

**Attribute: ffcf15**

**Fullname:** Unsigned character reserved for future field feature use.

**Attribute Description** See fullname description.

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# LINERANGE

## 1. Description

This relation is use by the NPA Expansion Feature's exclusion line range assignment. This is the structure for the relation RLlinerange to be used when accessing npa data for line number exclusion.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_DHSH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |
| spare | 3s |

## 3. Field Layout

```
LINERANGE   relid = 3147  DBSTATIC   DBACC_DHSH  DBPRAM    FG      NULL


     npa         DMEXPNPA     (ushort: 10)      <--- key
     nxx         DMEXPNXX     (ushort: 10)      <--- key
     tupnum      DMUSHORT     (ushort)  <--- key
     entries     DMUSHORT     (ushort)
     begline0    DMUSHORT     (ushort)
     begline1    DMUSHORT     (ushort)
     endline0    DMUSHORT     (ushort)
     endline1    DMUSHORT     (ushort)
         User, Compacted and Stored Tuple Layout  LINERANGE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |           |                   |           |
  0 |        npa        |***********|        nxx        |***********|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             tupnum            |            entries            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            begline0           |            begline1           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |            endline0           |            endline1           |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )


domain alLINERANGE struct  (6 sub-attributes)
         npa         .2.fake      (ushort: 10)
         nxx         .3.fake      (ushort: 10)
         tupnum      unsigned short (ushort)
         entries     unsigned short (ushort)
         begline     .4.fake      (array [ 2 ] of unsigned short )
```

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```
        endline     .5.fake      (array [ 2 ] of unsigned short )
                    Structure Layout   alLINERANGE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                     |           |                     |           |
  0 |        npa          |***********|        nxx          |***********|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  4 |              tupnum             |             entries           |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  8 |                             begline                             |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 12 |                             endline                             |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population rules for RLlinerang

### Relation Description

RLlinerange is designated for the OSPS NPA Expansion feature.

This relation is used by views 27.11R and 27.11V to store the NPA NXX XXXX line exclusion data for the OSPS NPA Code Expansion for BLV feature (98-5E-4281) in 5e11_1z, 5e12_1i, and 5e13_1y. This structure will be used in 5e14_1b.

Examples:

1) If NPA (312), NXX (979), BEGLINE (1) are input (ENDLINE is null) then the data will be stored as shown in the following column (1)

2) If NPA (312), NXX (979), BEGLINE (1) and ENDLINE (250) are input then the data will be stored as shown in the following column (2)

3) If there are multiple entries for an NPA, the data will be sorted and stored as shown in the following columns (3), (4), and (5).
   There is room in each data structure for 2 ranges. Each tuple will be numbered from 0 up to the maximum number of relations needed -1 in increments of 1. Unused data ranges will be blank. All of the LINE range pairs must be non-overlapping, unique ranges for each NPA. As additional entries are input, the pair will be inserted/deleted in order. If 5 line number ranges are input, 3 tuples will be needed. Tuple number 0 data is seen in column (3). Tuple number 1 is seen in column (4) and number 2 in column (5).

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| | (1) | (2) | (3) | (4) | (5) |
|---|---|---|---|---|---|
| NPA | 312 | 312 | 312 | 312 | 312 |
| NXX | 979 | 979 | 979 | 979 | 979 |
| TUPNUM | 0 | 0 | 0 | 1 | 2 |
| ENTRIES | 1 | 1 | 5 | 5 | 5 |
| BEGLINE[0] | 0001 | 0001 | 0001 | 0350 | 1000 |
| BEGLINE[1] | 0000 | 0000 | 0300 | 0410 | 0000 |
| ENDLINE[0] | 0001 | 0250 | 0250 | 0400 | 3000 |
| ENDLINE[1] | 0000 | 0000 | 0300 | 0500 | 0000 |

**Attribute:**
npa
**Fullname:**
first key
**Attribute Description:**
Used to store the numbering plan area (NPA) or the local routing number (LRN). The range is 200-999.

**Attribute:**
nxx
**Fullname:**
second key
**Attribute Description:**
Used to store the NXX. The range is 000-999.

**Attribute:**
tupnum
**Fullname:**
third key
**Attribute Description:**
Used to store TUPNUM which is a sequential number of tuples associated with each unique NXX.

**Attribute:**
entries
**Fullname:**
unsigned short attribute.
**Attribute Description:**
Used to store ENTRIES that will indicate the total number of line number ranges specified for this NPA-NXX.

**Attribute:**
begline[*]
**Fullname:**
unsigned short attribute.
**Attribute Description:**
Used to store the BEG LINE value. The range is 0000-9999.

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**Attribute:**

endline[*]

**Fullname:**

unsigned short attribute.

**Attribute Description:**

Used to store the END LINE value. The range is 0000-9999.

If END LINE is not specified, then it will equal BEG LINE in the data.

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# LLS_SM

## 1. Description

This relation identified the SM number to which a CCITT6 trunk terminates, given a label and linkset.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 6000 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| padding indicator | unpadded |

## 3. Field Layout

```
LLS_SM      relid = 2553  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     label       DMUNS11      (ushort: 11)     <--- key
 (a) primary     DMBOOL       (enum: 1)
     sm          DMUCHAR      (uchar)
     lsnum       DMUNS6       (ushort: 6)     <--- key
         User, Compacted and Stored Tuple Layout LLS_SM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                     | |       |               |           |   |
  0 |        label        |a|*******|       sm      |   lsnum   |***|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLlls_sm

**Relation Description**
CCITT 6 label/linkset to terminating sm relation

This relation identified the SM number to which a CCITT6 trunk terminates, given a label and linkset. This relation is used by CCITT Signaling System No. 6 Message Transfer Part. Populated with all tuples in the CCITT6 global SM only. This global SM is identified by the global parameter Glccitt6sm.

**Attribute: label**

**Fullname:** Band (that is label[4-10], upper 7 bits) and member number (that is, label[0-3], lower 4 bits).

**Attribute Description** The label consists of 11 bits the lower order 4 bits(label[0-3]) contain the band member number, the upper 7(label[4-10]) the band. This number is assigned by the administration. The following is the layout of label:

```
10 9 8 7 6 5 4 3 2 1 0
|-|-|-|-|-|-|-|-|-|-|-|
<--- band---->< label >
```

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bit 0 is low order bit.

**Attribute: lsnum**

**Fullname:** signaling linkset

**Attribute Description** Signaling linkset is a number between 1 and 63 as assigned by the administration. A linkset represents a group of direct links connecting two CCITT6 exchanges, a CCITT6 exchange and an STP or two STPs. Current implementation will be no more than two links in a linkset.

For Singapore there will be no more than two links in a linkset.

**Attribute: primary**

**Fullname:** Primary flag

**Attribute Description** This flag indicates whether the link set/band is the primary or an alternate incoming link set/band. If it is a primary link set/band, the flag is set to DBYES. Otherwise, it is set to DBNO.

**Attribute: sm**

**Fullname:** switching module number

**Attribute Description** Switching module number is used to identify the sm to which a CCITT6 trunk terminates.

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# LNAME2ID

## 1. Description

This relation contains the Lawfully Authorized Electronic Surveillance (LAES) Case Name to Id. NOTE: See also RLlaescase.G

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 500 |
| expected tuples in relation | 20 |
| access type | DBACC_DHSH |
| distribution | LP |
| relation type | DBSTATIC |
| application | RCMAP |
| memory type | DBPRAM |
| ks key store | DBYES |

## 3. Field Layout

```
LNAME2ID    relid = 3179  DBSTATIC   DBACC_DHSH  DBPRAM    LP      RCMAP


     nameoflea   DMCHAR30     (array [ 30 ] of char )
     laescid     DMCASEMAX    (ushort: 9)
     casenameid  DMCHAR25     (array [ 25 ] of char )   <--- key
         User, Compacted and Stored Tuple Layout   LNAME2ID
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                           nameoflea                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                           nameoflea                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                           nameoflea                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                           nameoflea                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                           nameoflea                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                           nameoflea                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 24 |                           nameoflea                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |               |               |
 28 |           nameoflea           |     laescid   |*************  |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 32 |                           casenameid                          |
```

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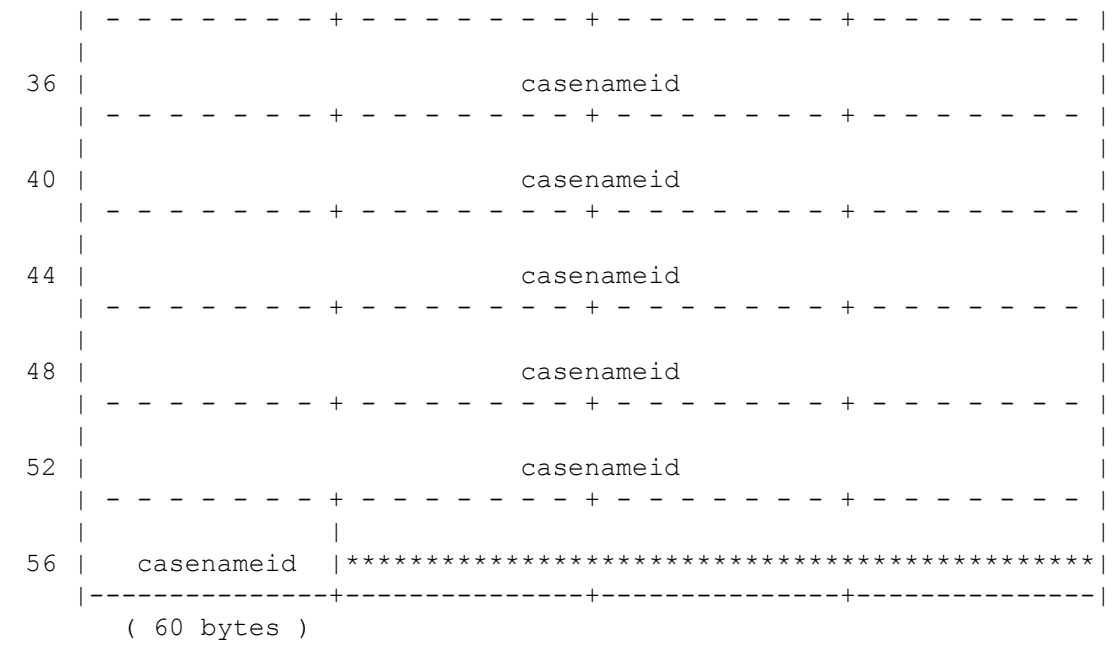


## 4. Population rules for RLlname2id

### Relation Description

Lawfully Authorized Electronic Surveillance Name to ID

The new CALEA LAES Case relation represents a specific Lawfully Authorized Surveillance. This relation contains large character keys and the laes case id pointer. See also RLlaescase.

**Attribute:**
casenameid
**Fullname:**
Case Name ID
**Attribute Description:**
Lawfully Authorized Electronic Surveillance (LAES) case name Identifier

**Attribute:**
nameoflea
**Fullname:**
Name of Law Enforcement Agency (LEA)
**Attribute Description:**
Name of Law Enforcement Agency (LEA).

**Attribute:**
laescid
**Fullname:**

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Lawfully Authorized Electronic Surveillance (LAES) index

**Attribute Description:**

Lawfully authorized electronic surveillance (LAES) index.

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# LNK_PLI

## 1. Description

This relation maps from the physical link position (with respect to the peripheral unit) to the Time Slot Interchanger (TSI) end of the PCT link.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 36 |
| expected tuples in relation | 5 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | PClnk_pli_trg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
LNK_PLI     relid = 2099  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL


     unitnumber  DMUNITNO     (ushort: 8)       <--- key
     unittype    DMUNITTYPE   (enum: 7) <--- key
 (a) is_ts_inv   DMBOOL       (enum: 1)
     tsi_link    DMLINKNO     (ushort: 6)
     pct_link    DMPCTLNK     (ushort: 5)       <--- key
         User, Compacted and Stored Tuple Layout    LNK_PLI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |             | |           |         |         |
  0 |   unitnumber  |   unittype  |a|  tsi_link | pct_link|*********|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population rules for RLlnk_pli

**Relation Description**

```
        TSI Link to Peripheral Link mapping

        This relation maps from the physical link position
        (with respect to the peripheral unit) to the Time Slot
        Interchanger (TSI) end of the PCT link.
        It is the reverse mapping of the RLpli_lnk relation.
        For each entry in RLlnk_pli there must be an associated
        tuple in RLpli_lnk.
```

**Attribute:**

```
        unittype
```

**Fullname:**

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Peripheral Unit Type

**Attribute Description:**

The type of peripheral unit.

**Attribute:**

unitnumber

**Fullname:**

unit number

**Attribute Description:**

The number that identifies the selected peripheral unit.

**Attribute:**

pct_link

**Fullname:**

peripheral control and timing unit link number

**Attribute Description:**

This attribute identifies the relative PCT link number for the peripheral. The range depends on the type of peripheral unit:

SMPSIU : Range is the same as the lower 5 bits of PCTLNK circuit index. It represents the PSU shelf number and the PCT connection which is always 0.

SMDNU_S: Range is 0 through 11 with links 0 through 5 being in data group 0 and links 6 through 11 in data group 1. One tuple for each duplex PCT link connected to the CDs

**Attribute:**

tsi_link

**Fullname:**

TSI link number

**Attribute Description:**

This attribute identifies the TSI link associated with the specified PCT link.

**Attribute:**

is_ts_inv

**Fullname:**

Is Time Slot Inversion used?

**Attribute Description:**

This attribute will indicate if Time Slot Inversion is being used by the TSI link.

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# LNK_USE

## 1. Description

This relation contains the TSI Link Type (SM-2000 Only).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 40 |
| expected tuples | 28 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| cluster | 4 |
| density | 100 |
| trigger function | PClnk_trg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| permutation type | unperm |

## 3. Field Layout

```
LNK_USE     relid = 1880  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     link        DMLINKNO     (ushort: 6) <--- key
 (a) is_oper     DMBOOL       (enum: 1)
 (b) lnk1spr     DMBOOL       (enum: 1)
     use         DMLNK_USE    (enum: 3)
     lnk2spr     DMUNS6       (ushort: 6)
     lnk3spr     DMUNS5       (ushort: 5)
     tmslnk_0    DMTMSLNK     (short)
     tmslnk_1    DMTMSLNK     (short)
     index       DMRELLNKNO   (ushort: 6)
     trcu0_pi    DMRELLNKNO   (ushort: 6)
     trcu1_pi    DMRELLNKNO   (ushort: 6)
         User, Compacted and Stored Tuple Layout    LNK_USE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |           | | |     |         |           |         |         |
  0 |    link   |a|b| use |*********|  lnk2spr  | lnk3spr |*********|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            tmslnk_0           |            tmslnk_1           |
    |---------------+---------------+---------------+---------------|
    |           |           |       |           |                   |
  8 |   index   |  trcu0_pi |*******|  trcu1_pi |*******************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
domain alLNK_USE  struct  (10 sub-attributes)
         link        .6.fake      (ushort: 6)
 (a)     is_oper     .0fake       (enum)
 (b)     lnk1spr     .0fake       (enum)
         use         .1fake       (enum)
         lnk2spr     .7.fake      (ushort: 6)
         lnk3spr     .8.fake      (ushort: 5)
```

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```
        tmslnk      .9.fake      (array [ 2 ] of short )
        index       .10.fake     (ushort: 6)
        trcu0_pi    .11.fake     (ushort: 6)
        trcu1_pi    .12.fake     (ushort: 6)
                    Structure Layout     alLNK_USE
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |           | | |     |         |           |         |         |
 0 |    link   |a|b| use |*********|  lnk2spr  | lnk3spr |*********|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 4 |                             tmslnk                            |
   |---------------+---------------+---------------+---------------|
   |           |           |       |           |                   |
 8 |   index   |  trcu0_pi |*******|  trcu1_pi |*******************|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population rules for RLlnk_use

### Relation Description

TSI Link Usage

This relation describes what is connected to each of the 44 TSI Links on an SM-2000.

NOTE: Unless otherwise specified, NLI will refer to both NLI and ENLI.

For every equipped TSI slice (pair of rlCKTDATA tuples with a circuit type of PCTSIS) 4 tuples are populated in this relation, one for each of the four TSI links on a TSI slice. If the TSI link is not connected to anything, the use attribute will be set to TS_UNEQ, otherwise it will be set to a value indicating how the TSI link is being used.

The first four TSI links have fixed uses, as follows:

| link | use | index | use in skeleton |
|---|---|---|---|
| 0 | TS_MCP | 0 | TS_MCP |
| 1 | TS_DX | 0 | TS_UNEQ |
| 2 | TS_NLI | 0 | TS_NLI |
| 3 | TS_NLI | 1 | TS_NLI |
| 2 | TS_LOOP | 0 | TS_LOOP |

**Attribute:**

link

**Fullname:**

TSI Link Number

**Attribute Description:**

This is the TSI link number, which could also be thought of as a TSI slice number and a link number on that slice, as follows:

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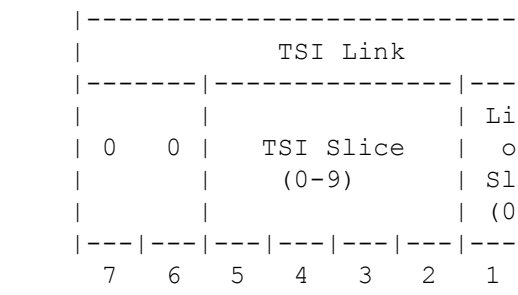


**Attribute:**
is_oper
**Fullname:**
Operation Indicator
**Attribute Description:**
States whether the board is operational. If 'use' is TS_UNEQ, then 'is_oper' states whether both sides of the TSI are operational. If 'use' is not TS_UNEQ, then 'is_oper' states whether both sides of the peripheral or network connection are operational.

**Attribute:**
use
**Fullname:**
What TSI link is used for.
**Attribute Description:**
Sequential even-odd TSI link pairs (such as, 0 &1, 20 & 21, etc.) are serviced by a common SP, and must both be used for either a network connection (that is, NLI) or a peripheral connection (such as, DX).

**Attribute:**
lnk1spr
**Fullname:**
Spare attribute # 1
**Attribute Description:**
Currently unused.

**Attribute:**
lnk2spr
**Fullname:**
Spare attribute # 2
**Attribute Description:**
Currently unused.

**Attribute:**
lnk3spr
**Fullname:**
Spare attribute # 3

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**Attribute Description:**
Currently unused.

**Attribute:**
index
**Fullname:**
Index of circuit at far end of link
**Attribute Description:**
This attribute is meaningful only in combination with the 'use' attribute. The following layout shows what index contains for various 'use' values:

| use | index |
|---|---|
| TS_NLI | E/NLI Number 0-23 on SM-2000 ORM,LSM/HSM |
| TS_DX | DX Number (0-5) |
| TS_PLI | Logical PCT Link (0 to Glsmpctmax -1) |
| all others | 0 |

**Attribute:**
tmslnk_0
**Fullname:**
First TMSLNK connected to an NLI
**Attribute Description:**
This attribute is only used for tuples with use=TS_NLI. It contains the TMSLNK number of the TMSLNK connected to the NLI this TSI link is connected to.

**Attribute:**
tmslnk_1
**Fullname:**
Second TMSLNK connected to an NLI
**Attribute Description:**
This attribute is only used for tuples with use=TS_NLI. It contains the TMSLNK number of the second TMSLNK connected to the NLI this TSI link is connected to.
A NLI uses both TMSLNK sub links implying that tmslnk_1 should be a valid TMSLNK number.
A NLI1 and an ENLI use only one TMSLNK sublink implying that tmslnk_1 should be invalid.
CM2C offices uses a NLI1.
A NLI is used for a local SM-2000.
A NLI is also used for EXM with TRCU3.
A ENLI is used for EXM with TRCU or TRCU2.

**Attribute:**
trcu0_pi
**Fullname:**
TRCU path index connecting to NLI on ONTC side 0.
**Attribute Description:**

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```
        This attribute is a duplicate of the one in RLnli_lnk.
        See RLnli_lnk.R for the complete checks against
        this attribute.
```

**Attribute:**

```
        trcu1_pi
```

**Fullname:**

```
        TRCU path index connecting to NLI on ONTC side 1.
```

**Attribute Description:**

```
        This attribute is a duplicate of the one in RLnli_lnk.
        See RLnli_lnk.R for the complete checks against
        this attribute.
```

**Defines:**

```
         "db/DMtmslnk.h",
         "db/DMclidef.h"
```

# LNKGRP

## 1. Description

This relation contains information on link groups.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 255 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
LNKGRP      relid = 2515  DBSTATIC   DBACC_CIND  DBPRAM    LRFP    NULL
     opc          DMDPC         (ulong: 24)
 (a) network      DMNETWORK     (enum: 1)
     dpc          DMDPC         (ulong: 24)
     lnkgrp       DMUNS8        (ushort: 8)     <--- key
     valid_mbrs   DMHEX16       (ushort)
         User, Compacted and Stored Tuple Layout LNKGRP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               | |             |
  0 |                       opc                     |a|*************|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  4 |                       dpc                     |     lnkgrp    |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            valid_mbrs         |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLlnkgrp

**Relation Description**
Link Group Relation

This relation defines the link group, network, originating point code, destination point code and valid link group members of the link group. This relation resides in the AM and in the Global SMs as defined by the global parameters Glnatl7sm and Glintl7sm.

**Attribute: lnkgrp**

**Fullname:** Link Group number

**Attribute Description**

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The link group defines a pool of spare signaling data links (SDL) which can be used when the predefined(default) SDL fails.

**Attribute: valid_mbrs**

**Fullname:** Valid Members

**Attribute Description** This attribute defines which link group members have been defined as part of the link group by being added to relation RLlgrpmem. This attribute is a bit map. such as, if bit 3 equals 0, then link group member 3 is not defined. If bit 3 equals 1, then link group member 3 is defined.

**Attribute: dpc**

**Fullname:** Destination Point Code

**Attribute Description** This attribute defines the destination point code (DPC) of the link group.

**Attribute: network**

**Fullname:** SS7 network

**Attribute Description** The SS7 network (CCNATL or CCINTL) for which the link group is a part of.

**Attribute: opc**

**Fullname:** Originating Point Code

**Attribute Description** This defines the originating point code of the link group.

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# LNKP_LS

## 1. Description

This relation consists of information on a particular link. The key to this relation is the DLT number which is the ST port name.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 256 |
| expected number of tuples | 4 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CClnkp_ls |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
LNKP_LS     relid = 2369  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL


     dltnum      DMPORT       (ushort)  <--- key
     lsnum       DMUNS8       (ushort: 8)
     member      DMUNS4       (ushort: 4)
     slc         DMUNS4       (ushort: 4)
 (a) priority    DMSS7PRIOR   (ushort: 2)
         User, Compacted and Stored Tuple Layout    LNKP_LS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |       |       |
  0 |              dltnum           |     lsnum     | member|  slc  |
    |---------------+---------------+---------------+---------------|
    |   |                                                           |
  4 | a |***********************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLlnkp_ls

### Relation Description

```
        Link port link set

        This relation consists of information on a particular link.
        The purpose of this relation is to provide a mapping of the DLT
        number assigned to the ST port to its assigned link set and member
        number.  Also, since the DLT number uniquely identifies a link,
        specific link information (such as, SLC(R), priority, SLS assignments)
        is also included.
```

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This relation resides in the National SS7 Global SM (defined by the Glnat17sm office parameter) and/or in the International SS7 Global SM (defined by the Glint17sm office parameter).

NOTE: This relation is used by both the National and International versions of SS7. The Global SMs for these two versions must be separate, and any partitioned relations, like this one, must be populated independently on each GSM.

**Attribute:**
dltnum
**Fullname:**
Data link terminal number
**Attribute Description:**
The Data Link Terminal (DLT) number is the port name of the DLT port associated with the signaling terminal.

**Attribute:**
priority
**Fullname:**
Priority
**Attribute Description:**
The assigned priority of the link containing the DLT. Priorities are defined as follows:
Priority 1: link should be active and loaded.
Priority 2: link should be active but not loaded.
Priority 3: link is standby and not active nor loaded.

**Attribute:**
slc
**Fullname:**
Signaling link code
**Attribute Description:**
The value of the Signaling Link Code assigned to the link (containing the DLT) which uniquely identifies the link between two offices.

**Attribute:**
member
**Fullname:**
Link set member
**Attribute Description:**
The linkset member which contains the data link terminal (DLT).

**Attribute:**
lsnum
**Fullname:**

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Link set number

**Attribute Description:**

The link set number which contains the data link terminal (DLT).

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# LNKSLS

## 1. Description

The Standardization Sector (SS7) (national and international versions) office loadsharing definition relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 16 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
LNKSLS      relid = 2370  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     numlnk      DMUNS5       (ushort: 5)     <--- key
     slslnk0     DMHEX16      (ushort)
     slslnk1     DMHEX16      (ushort)
     slslnk2     DMHEX16      (ushort)
     slslnk3     DMHEX16      (ushort)
     slslnk4     DMHEX16      (ushort)
     slslnk5     DMHEX16      (ushort)
     slslnk6     DMHEX16      (ushort)
     slslnk7     DMHEX16      (ushort)
     slslnk8     DMHEX16      (ushort)
     slslnk9     DMHEX16      (ushort)
     slslnk10    DMHEX16      (ushort)
     slslnk11    DMHEX16      (ushort)
     slslnk12    DMHEX16      (ushort)
     slslnk13    DMHEX16      (ushort)
     slslnk14    DMHEX16      (ushort)
     slslnk15    DMHEX16      (ushort)
         User, Compacted and Stored Tuple Layout LNKSLS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |         |                     |                               |
  0 |  numlnk |*********************|            slslnk0            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            slslnk1            |            slslnk2            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            slslnk3            |            slslnk4            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |            slslnk5            |            slslnk6            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 16 |            slslnk7            |            slslnk8            |
    |---------------+---------------+---------------+---------------|
```

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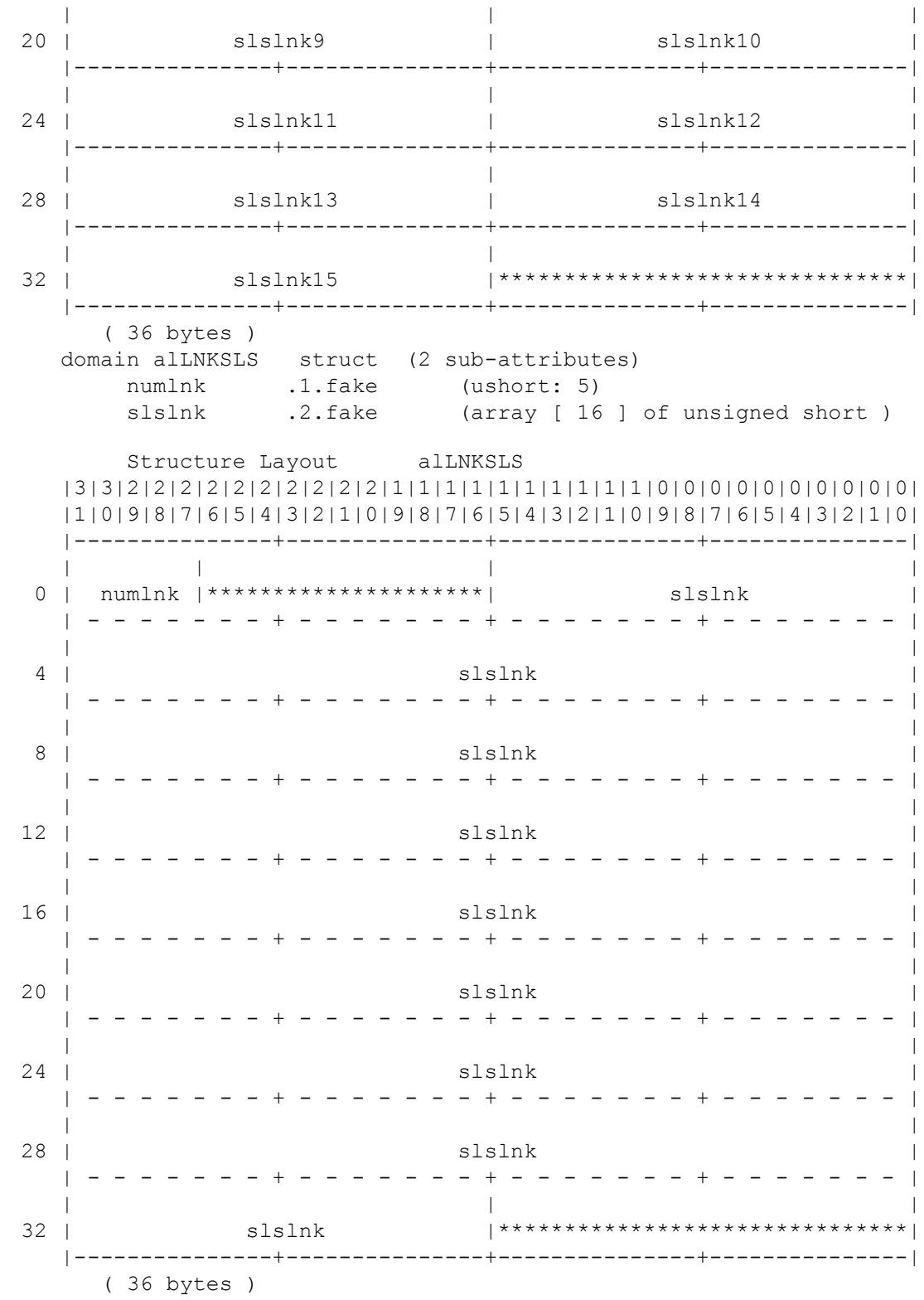


## 4. Population Rules for RLInkSls

**Relation Description**
Normal signaling link selection codes for links.

This relation lists the normal signaling link selection (SLS) codes for a particular number of active links.

**Attribute: numlnk**

**Fullname:** Number of active loaded (priority 1) links.

**Attribute Description** This attribute defines the number of active loaded (priority 1) links.

**Attribute: slslnk[*]**

**Fullname:** Signaling Link Selection codes for link x, where x corresponds to slslnkx

**Attribute Description** This defines the SLS code for link member x.

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# LNNODE_M

## 1. Description

Leased network node mapping.

This relation maps the external switch ID used to communicate with switch personnel (CLLI) code into the internal switch ID (ars_idx) used to collect measurements. This is used for the collection and reporting of Leased Network node-to-node measurements.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 62 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LRFR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |
| trigger function | DBlnnode_m |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| foldtype | DBDEFAULT |

## 3. Field Layout

```
LNNODE_M    relid = 1519  DBSTATIC   DBACC_HASH  DBPRAM    LRFR    NULL
     ars_idx     DMRTEIDX     (ushort: 12)
     clli        DMCLLI       (array [ 11 ] of char )  <--- key
         User, Compacted and Stored Tuple Layout   LNNODE_M
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                         |       |                             |
  0 |         ars_idx         |*******|              clli           |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                               clli                            |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                               clli                            |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                 |                                             |
 12 |       clli      |*********************************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLlnnode_m

**Relation Description**
Leased network node mapping relation.

This relation is required to allow collection of node-to-node measurements in the Leased Network. For every final destination switch (regardless of intermediate via switches) identified by CLLI code, this relation specifies which ARS index is being used to route calls to that destination. There must be exactly one tuple in this relation for each

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destination switch in the leased network. A more complete description follows.

A leased network destination node is identified by specifying a switch and a voice/data route indicator. For example, the Seattle switch is two leased network nodes 'Seattle voice' and 'Seattle data.' A Leased Network access switch will collect data for calls to each destination node.

There must be a method to identify nodes for external communication with RNMS and the switch personnel, and there must be a method to identify nodes internally in the switch to collect the counts. The external node ID will consist of a common language location identifier (CLLI) code and a voice/data flag. The CLLI code is a universal code used to identify switches.

This external node ID will not facilitate data collection in the switch because the CLLI code is not available during call processing. The internal node ID will be based on the routing structure currently being used in the Leased Network. In this routing structure, an ARS index will correspond to a destination switch. The measurements will be collected by ARS index and the data rate returned in the NCP query will be used to distinguish voice and data calls.

There will be a new recent change view 10.28 and relation used to map the external switch IDs (CLLI code) to the internal switch IDs (ARS index) in the switch. Data can be reported only for destination switches entered in this view. The corresponding new relation will contain the CLLI code and ARS index for each destination switch for which data can be collected.

The ARS index used for leased network routes to be included in the node-to-node measurements will be restricted to values not greater than 1000. This is higher than any expected use and will save resources when indexing the counters.

Glln_nodes reflects the number of tuples in this relation, therefore it needs to be updated when an insert and/or delete is executed for this relation. Glln_nodes is used for TRFC30 measurements to size section 146 of their report.

**Attribute: clli**

**Fullname:** Common Language Location Identifier

**Attribute Description** This field will be used as an external identifier for a destination switch. It is not used in the switch other that as a means to communicate a switch ID to the switch personnel.

**Attribute: ars_idx**

**Fullname:** ARS Index

**Attribute Description** ARS Index will be used to internally identify a leased network destination switch. It will be used as an index to collect node-to-node measurements.

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# LOCIPADR

## 1. Description

This relation contains all of the local IP addresses assigned to one *5ESS*®-2000 switch. It is used by RC/V to verify uniqueness and to assign an index to each IP address.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3927 |
| expected tuples | 121 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
LOCIPADR    relid = 3163  DBSTATIC   DBACC_DHSH  DBPRAM    LP      RCMAP


     ip_addr     DMIPADDR     (struct)  <--- key
         ipaddr0     DMULONG      (ulong)
         ipaddr1     DMULONG      (ulong)
         ipaddr2     DMULONG      (ulong)
         ipaddr3     DMULONG      (ulong)
     indx_addr   DMUSHORT     (ushort)
     sm_name     DMMODULE     (ushort: 8)
     ip_vers     DMIPVERS     (enum: 4) <--- key
         User, Compacted and Stored Tuple Layout   LOCIPADR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+========== ip_addr ==========+===============|
    |                                                               |
  0 |                             ipaddr0                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             ipaddr1                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             ipaddr2                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                             ipaddr3                           |
    |===============+===============+===============+===============|
    |                               |               |       |       |
 16 |           indx_addr           |    sm_name    |ip_vers|*******|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population rules for RLlocipadr

**Relation Description**

Local Interface Protocol (IP) address relation.

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This relation contains a list of all the IP addresses on the switch.

**Attribute:**
ip_addr
**Fullname:**
IP address
**Attribute Description:**
This attribute is an IP address which has been assigned to either a processor (SM, PH, MH, etc) or an IP interface on this switch.

**Attribute:**
ip_vers
**Fullname:**
IP version
**Attribute Description:**
This is the version (eg 4 or 6) of the IP address.

**Attribute:**
sm_name
**Fullname:**
Switching module number
**Attribute Description:**
The number of the switching module associated with the interface.

**Attribute:**
indx_addr
**Fullname:**
IP address index
**Attribute Description:**
A unique index to represent the IP address. Used to save memory in the SMs.

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# LOCNAME

## 1. Description

OSPS Automated Directory Assistance System Locality Name

This relation will have a distribution of FG (fixed group), with grp_type of GPD_OSPS, and a grp_id of 1.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 5000 |
| access type | DBACC_HASH |
| foldtype | DBGC31 |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
LOCNAME     relid = 2798  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     locname     DMTXT20      (array [ 20 ] of char )     <--- key
     locnbr      DMRCNULL     (ushort: 16)
     ospsff1     DMUSHORT     (ushort)
     ospsff2     DMUSHORT     (ushort)
     ospsff3     DMUCHAR      (uchar)
 (a) ospsff4     DMBOOL       (enum: 1)
 (b) ospsff5     DMBOOL       (enum: 1)
 (c) ospsff6     DMBOOL       (enum: 1)
 (d) ospsff7     DMBOOL       (enum: 1)
 (e) ospsff8     DMBOOL       (enum: 1)
 (f) ospsff9     DMBOOL       (enum: 1)
 (g) ospsff10    DMBOOL       (enum: 1)
 (h) ospsff11    DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout    LOCNAME
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                            locname                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                            locname                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                            locname                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                            locname                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                            locname                            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 20 |             locnbr            |            ospsff1            |
    |---------------+---------------+---------------+---------------|
```

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```
    |                                |               | | | | | | | | |
 24 |            ospsff2             |    ospsff3    |a|b|c|d|e|f|g|h|
    |--------------+---------------+---------------+---------------|
       ( 28 bytes )
```

## 4. Population Rules for RLlocname

**Relation Description**
OSPS Automated Directory Assistance System (ADAS) Locality Name

RLlocname defines one of the relations (keyed by Locality Name) that is used for the ADAS Locality Number to Name Mapping table for the OSPS ADAS - Release 1 feature.

**Attribute: locname**

**Fullname:** Locality Name

**Attribute Description** The 1 - 20 character caller-provided location name where a Directory Assistance (DA) search will be performed.

**Attribute: locnbr**

**Fullname:** Locality Number

**Attribute Description** The number (1 - 65,535) associated with a Locality Name.

**Attribute: ospsff1**

**Fullname:** Spare 1

**Attribute Description**Spare field for fast feature development.

**Attribute: ospsff2**

**Fullname:** Spare 2

**Attribute Description** Spare field for fast feature development.

**Attribute: ospsff3**

**Fullname:** Spare 3

**Attribute Description** Spare field for fast feature development.

**Attribute: ospsff4**

**Fullname:** Spare 4

**Attribute Description** Spare field for fast feature development.

**Attribute: ospsff5**

**Fullname:** Spare 5

**Attribute Description**

**Attribute: ospsff6**

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**Fullname:** Spare 6

**Attribute Description**

Spare field for fast feature development.

**Attribute: ospsff7**

**Fullname:** Spare 7

**Attribute Description** Spare field for fast feature development.

**Attribute: ospsff8**

**Fullname:** Spare 8

**Attribute Description** Spare field for fast feature development.

**Attribute: ospsff9**

**Fullname:** Spare 9

**Attribute Description** Spare field for fast feature development.

**Attribute: ospsff10**

**Fullname:** Spare 10

**Attribute Description** Spare field for fast feature development.

**Attribute: ospsff11**

**Fullname:** Spare 11

**Attribute Description** Spare field for fast feature development.

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# LOCNBR

## 1. Description

OSPS Automated Directory Assistance System Locality Number

This relation will have a distribution of FG (fixed group), with grp_type of GPD_OSPS, and a grp_id of 1.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 5000 |
| access type | DBACC_HASH |
| foldtype | DBGC31 |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
LOCNBR      relid = 2799  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     locnbr      DMRCNULL     (ushort: 16)     <--- key
     ospsff1     DMUSHORT     (ushort)
     locname     DMTXT20      (array [ 20 ] of char )
     ospsff2     DMUSHORT     (ushort)
     ospsff3     DMUCHAR      (uchar)
 (a) ospsff4     DMBOOL       (enum: 1)
 (b) ospsff5     DMBOOL       (enum: 1)
 (c) ospsff6     DMBOOL       (enum: 1)
 (d) ospsff7     DMBOOL       (enum: 1)
 (e) ospsff8     DMBOOL       (enum: 1)
 (f) ospsff9     DMBOOL       (enum: 1)
 (g) ospsff10    DMBOOL       (enum: 1)
 (h) ospsff11    DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout LOCNBR
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             locnbr            |            ospsff1            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             locname                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             locname                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                             locname                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                             locname                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                             locname                           |
    |---------------+---------------+---------------+---------------|
```

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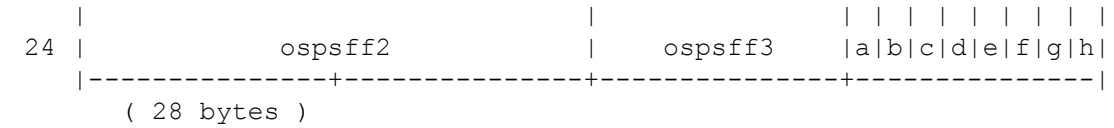


## 4. Population Rules for RLlocnbr

**Relation Description**
OSPS Automated Directory Assistance System (ADAS) Locality Number

RLlocnbr defines one of the relations (keyed by Locality Number) that is used for the ADAS Locality Number to Name Mapping table for the OSPS ADAS - Release 1 feature.

**Attribute: locnbr**

**Fullname:** Locality Number

**Attribute Description** The number (1 - 65,535) associated with a Locality Name.

**Attribute: ospsff1**

**Fullname:** Spare 1

**Attribute Description** Spare field for fast feature development.

**Attribute: locname**

**Fullname:** Locality Name

**Attribute Description** The 1 - 20 character caller-provided location name where a Directory Assistance (DA) search will be performed.

**Attribute: ospsff2**

**Fullname:** Spare 2

**Attribute Description** Spare field for fast feature development.

**Attribute: ospsff3**

**Fullname:** Spare 3

**Attribute Description** Spare field for fast feature development.

**Attribute: ospsff4**

**Fullname:** Spare 4

**Attribute Description** Spare field for fast feature development.

**Attribute: ospsff5**

**Fullname:** Spare 5

**Attribute Description** Spare field for fast feature development.

**Attribute: ospsff6**

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**Fullname:** Spare 6

**Attribute Description** Spare field for fast feature development.

**Attribute: ospsff7**

**Fullname:** Spare 7

**Attribute Description** Spare field for fast feature development.

**Attribute: ospsff8**

**Fullname:** Spare 8

**Attribute Description** Spare field for fast feature development.

**Attribute: ospsff9**

**Fullname:** Spare 9

**Attribute Description** Spare field for fast feature development.

**Attribute: ospsff10**

**Fullname:** Spare 10

**Attribute Description** Spare field for fast feature development.

**Attribute: ospsff11**

**Fullname:** Spare 11

**Attribute Description** Spare field for fast feature development.

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# LOG_TONE

## 1. Description

Maps logical tone names to memory block locations in UTG in SMs equipped with LDSU-E. IN SMs with LDSU2, this relation provides the wave_num associated with a given log_tn_name, and it specifies the frequency and power level information for the sine waves making up the waveform.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |
| l1 length of subkey 1 | 8 |
| p1 position of subkey 1 | 8 |
| ignore key bits | 0-7 |

## 3. Field Layout

```
LOG_TONE    relid = 110   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     log_tn_name  DMLOG_TONE   (enum)  <--- key
     freq1       DMUNS16      (ushort)
     pow_lev1    DMUNS16      (ushort)
     freq2       DMUNS16      (ushort)
     pow_lev2    DMUNS16      (ushort)
     wave_num    DMUTG_LOC    (ushort: 8)
         User, Compacted and Stored Tuple Layout   LOG_TONE
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |          log_tn_name          |             freq1             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            pow_lev1           |             freq2             |
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  8 |            pow_lev2           |    wave_num   |***************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLlog_tone

There are no population rules for this relation.

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# LOSS_TBL

## 1. Description

Analog and digital loss values for specific loss type.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
LOSS_TBL    relid = 783   DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     aloss       DMISLOSS     (short)
     dloss       DMISLOSS     (short)
     unittype    DMUNITTYPE   (enum: 7)  <--- key
 (a) losstype    DMLOSSTYPE   (enum: 4)  <--- key
         User, Compacted and Stored Tuple Layout   LOSS_TBL
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             aloss             |              dloss            |
    |---------------+---------------+---------------+---------------|
    |             | |       |                                       |
  4 |   unittype  |*|   a   |***************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLloss_tbl

**Relation Description**
Analog and digital loss values for specific loss type.

RLloss_tbl is used by both U.S. and international.
RLloss_tbl is recent changeable for international only.

***NOTE:*** For U.S. offices all the RLloss_tbl tuples' aloss attributes should be set to 0 (zero) and all the dloss attributes should be set to 0 (zero).

No SMLU3 or SMLU4 tuples are needed. SMLU3 and SMLU4 use the same loss settings as SMC1LU and will use SMC1LU's tuples.

**Attribute: losstype**

**Fullname:** type of loss supplied to subscriber line

**Attribute Description** This attribute is of domain DMLOSSTYPE. It is one of two keys to the relation. A tuple is required for each enumeration in the domain DMLOSSTYPE, for each line unit

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(SMC1LU, SMISLU or SMRISLU) in the *5ESS*®-2000 switch. Note: Z-CARDS must exist in the RISLU/ISLU before that unittype needs to be populated.

**Attribute: unittype**

**Fullname:** line unit type

**Attribute Description** This attribute is also a key. It is of domain DMUNITTYPE. Valid values are SMC1LU, SMISLU and SMRISLU. For a *5ESS* ®-2000 switch containing one of these units, the tuple must be populated. Note: Z-CARDS must exist in the RISLU/ISLU before that unittype needs to be populated.

**Attribute: aloss**

**Fullname:** analog receive loss

**Attribute Description**This attribute is of domain DMISLOSS. The valid values for this attribute range from -3.0 (represented by -6) to +16.5 (represented by 33) in 0.5 steps. This attribute is the amount of receive analog loss to apply at the ISLU-Z line card.

**Attribute: dloss**

**Fullname:** digital loss

**Attribute Description** This attribute is of domain DMISLOSS. The valid values range from 0 to 15 (represented by 30) in 0.5 steps. This is the amount of digital loss applied at the TSI.

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# LPCONFIG

## 1. Description

Switching Module (SM) loadable packages contained in SM configurations. This is an existence relation, meaning the loadable package A is loaded in configuration 1 if and only if the tuple (1,A) exists.

This relation is pre-populated based on the feature database. It is generated by a tool during load building and distributed to ODA.

Currently it has a distribution of disk only since ODA is the only user of the relation. However, it is possible in future generics that *5ESS*®-2000 switch software (such as RC/V) may want to access this relation thus requiring the distribution type to be changed.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 750 |
| expected tuples | 200 |
| access type | DBACC_CIND |
| memory type | DBDISK |
| distribution | DO |
| relation type | DBSTATIC |

## 3. Field Layout

```
LPCONFIG    relid = 2097  DBSTATIC   DBACC_CIND  DBDISK    DO      DDBM
     smconfig    DMSMCONFIG   (enum: 8)  <--- key
     package     DMLPLIST     (enum)  <--- key
         User and Compacted Tuple Layout   LPCONFIG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |    smconfig   |    package    |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
     smconfig    DMSMCONFIG   (enum: 8)  <--- key
     package     DMLPLIST     (enum)  <--- key
           Stored Tuple Layout     LPCONFIG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |    smconfig   |    package    |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLlpconfig

**Relation Description**
Loadable package to SM configuration mapping.

This relation lists what loadable packages are loaded in each SM configuration. This relation is a fixed relation that is populated at the time of the generic software compilation. The is an existence relation that has two attributes which are both keys, smconfig and package. Each tuple in the relation implies that the configuration contains the loadable package. If a combination of a configuration and loadable package does not exist as a tuple in this

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relation, then that configuration does not contain the loadable package.

**Attribute: smconfig**

**Fullname:** SM configuration.

**Attribute Description** One of the software configurations an SM can be assigned.

**Attribute: package**

**Fullname:** Loadable Package.

**Attribute Description** One of the loadable packages loaded in an SM configuration.

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# LPRT_FW

## 1. Description

This relation contains the local D-port mapping to servclass and firmware change level.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head page size | 2048 |
| data page size | 256 |
| page level | 2 |
| ks key store | DBNO |

## 3. Field Layout

```
LPRT_FW     relid = 730   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     ldport      DMPORT       (ushort) <--- key, not stored
     fwcli       DMHEX24      (ulong: 24)
     servclass   DMSERVCLASS  (enum)
         User and Compacted Tuple Layout    LPRT_FW
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             ldport            |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  4 |                     fwcli                     |   servclass   |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     fwcli       DMHEX24      (ulong: 24)
     servclass   DMSERVCLASS  (enum)
           Stored Tuple Layout      LPRT_FW
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                     fwcli                     |   servclass   |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population rules for RLlprt_fw

### Relation Description

```
        Local Port Firmware

        Local D-port mapping to servclass and firmware change level.

                DESCRIPTION OF FOLLOWING PAGES:
                HOW TO MAKE CHANGES TO THIS FILE
                SERVCLASS GLOSSARY
                24-BIT FIRMARE VALUE FOR OSPS UNITS
```

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Following these pages is a description of the firmware values associated with each unit. On a per unit basis, there is a unit description along with the associated J-Drawing/Equipment Code and the 'servclasses' associated with the unit. Each unit description contains a Table of assigned firmware change level indicator (FWCLI) values for the unit. The columns in this table represent:

FWCLI: 9-character string representing the fwcli value
FWCLI HEX VALUE: 24-Bit hexadecimal equivalent of
the 9-character string representation

MC PRODUCT NUMBER: Microcode Product Number associated with
the firmware LDI

LIST NUMBER: Corresponding List Number for the firmware LDI
This field may be Not Applicable (NA) to some units.
SITE: The site this firmware is intended for.

RELEASE: The Generic Release this firmware was introduced for.

NOTES: An integer referencing a note describing the purpose
of this firmware change.

An fwcli value represented in these tables will reside in the firmware of the BST and VDT units and can be displayed in its 9-character string representation by local diagnostics. The fwcli value is transmitted to the switch on initialization of these units. In general, if the particular fwcli value is needed by switch-side Level 3 process to synchronize Level 3 protocol with the unit, the fwcli value will be placed in the relation RLlprt_fw either by ODA in the case of a new start or via Generic Retrofit or Recent Change in the case of a software/firmware retrofit.

HOW TO MAKE CHANGES TO THIS FILE:
Any change to this file must be approved by the following organizations:

The inclusion of a new OSPS unit must be accompanied by a description (on a new page) of the OSPS unit and its associated J-Drawing, servclasses and Table of assigned FWCLI values.

SERVCLASS GLOSSARY

| SERVCLASS | SEE DESCRIPTION FOR UNIT: |
|---|---|
| AS_OAP | TN1087 |
| FC_DASC | TN1087 |
| HM_RAS | TN1087 & TN1089 |
| OA_DAOPER | BST |
| OA_TAOPER | VDT |
| FC_RTRS | TN1087 |
| FC_HOBIS | TN1087 |
| FC_HOTVT | TN1087 |

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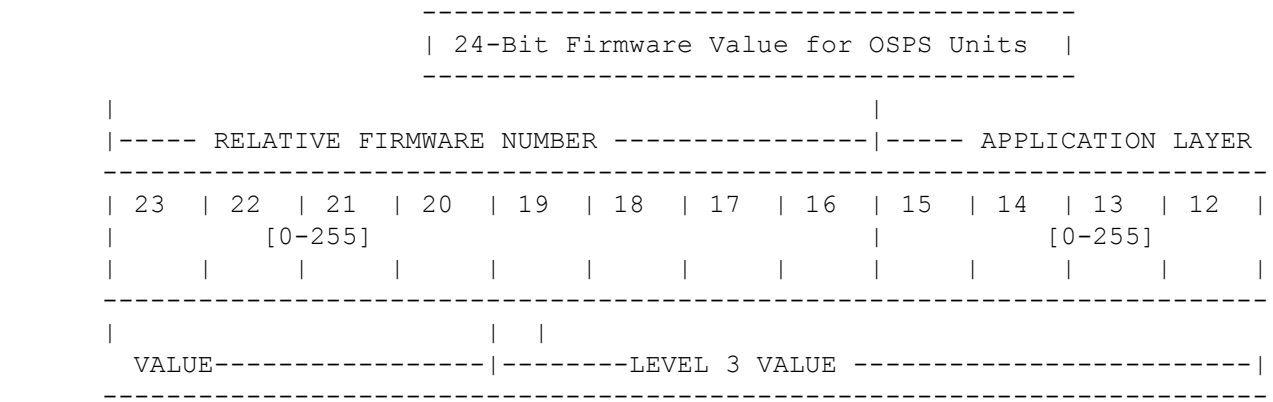
```
          FC_HOTRT        TN1087
          OA_AQDSL        TN1087
          FC_EIS_LNK      TN1087
          OA_MIS_LNK      TN1087
```




KEY:

RELATIVE FIRMWARE NUMBER - The relative number associated with this release of the firmware.

APPLICATION LAYER VALUE - The firmware number that application layer software should associate with this relative firmware number.

LEVEL 3 VALUE - The firmware number that Level 3 software should associate with this relative firmware number.

UNIT = BST

UNIT DESCRIPTION:

The Basic Services Terminal (BST) introduced in Generic 5E4(1) provides operators with the facility to handle Directory Assistance calls.

EQUIPMENT CODE: 56D150AAA (AT&T-TELETYPE)

SERVCLASS(ES): OA_DAOPER

TABLE OF FWCLI VALUES

| FWCLI | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| REL FW VAL | APL VAL | L3 VAL | HEX VALUE | MC PRODUCT NUMBER(S) | LIST NUMBER | SITE | RELEASE | NOTES |
| 000 | 000 | 000 | 000000 | MC5D105-01<br>MC5D106-01 | | USA | 5E4(1) | 1. |

NOTES

1. This is the base firmware for the Directory Assistance feature in Generic 5E4(1).

UNIT = TN1087

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UNIT DESCRIPTION:
The TN1087 is a Terminal Adapter first introduced in Generic 5E4(1). In asynchronous mode, it provides for the connection of OAPs, XDPs, ACCs, HOBIS computers, HOBIC voice quote equipment, HOBIC record quote printers, and Autoquote local modems. In synchronous mode, it provides for the connection of Directory Assistance System Computers (DASCs), Real-Time Rating Systems (RTRSs) and External Information Systems (EISs).
This unit supports transmission speeds of 110, 300, 1200, and 9600 baud.

J-DRAWING: J5D003FG
SERVCLASS(ES): FC_DASC, AS_OAP, HM_RAS, FC_RTRS, FC_HOBIS, FC_HOTVT, FC_HOTRT, OA_AQDSL OA_MIS_LNK, FC_EIS_LNK

TABLE OF FWCLI VALUES

| FWCLI REL FW VAL | APL VAL | L3 VAL | HEX VALUE | MC PRODUCT NUMBER(S) | LIST NUMBER | SITE | RELEASE | NOTES |
|---|---|---|---|---|---|---|---|---|
| 000 | 000 | 000 | 000000 | MC5D109 | | USA | 5E4(1) | 1. |
| | | | | MC5D118 | | | | 2. |

NOTES
1. This is the base firmware for the TN1087 as introduced in Generic 5E4(1).
2. 110, 300 baud version (used for Autoquote local modem DSLs in Generic 5E4(2)).

UNIT = VDT
UNIT DESCRIPTION:
The Video Display Terminal (VDT) introduced in Generic 5E4(2) provides operators with the facility to handle Toll and Assistance calls.

EQUIPMENT CODE: 56D505AAA (AT&T-TELETYPE)
SERVCLASS(ES): OA_TAOPER

TABLE OF FWCLI VALUES

| FWCLI REL FW VAL | APL VAL | L3 VAL | HEX VALUE | MC PRODUCT NUMBER(S) | LIST NUMBER | SITE | RELEASE | NOTES |
|---|---|---|---|---|---|---|---|---|
| 000 | 000 | 000 | 000000 | MC5D106-01 | | USA | 5E4(2) | 1. |
| | | | | MC5D107-01 | | | | |
| | | | | MC5D108-01 | | | | |
| | | | | MC5D111-01 | | | | |

NOTES

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```
  |-----------------------------------------------------------------
  |    1.  This is the base firmware for the Toll and Assistance
  |        feature in Generic 5E4(2).
```

**Attribute:**
ldport
**Fullname:**
local D-port
**Attribute Description:**
key-local port assignment of D-channel.

**Attribute:**
servclass
**Fullname:**
Serve class
**Attribute Description:**
class of service (as defined in RLfc_porttyp).

**Attribute:**
fwcli
**Fullname:**
firmware change level indicator
**Attribute Description:**
The use of this attribute depends on the servclass.
For servclasses OA_IFTERM and OA_IFOPER, this attribute is used to identify the generic of the 5ESS(R)-2000 switch on the far end of the OSPS Interflow link. It may be necessary for the Level 3 code to use this information if a generic retrofit on the far end is not backward compatible at Level 3. The 5ESS(R)-2000 switch generic numbers will be identified by '# defines' in the db/DMfwclidef.h file. For these two servclasses, none of the bit field description given throughout the rest of this file apply!!

For all serveclasses OTHER than OA_IFTERM and OA_IFOPER
the following applies:
fwcli: 24-bit value

Descriptions of what the various bits being on or off represent is defined in the file 'db/DMfwclidef.h'
(SEE BIT FIELD DESCRIPTION IN THE GENERAL DESCRIPTION SECTION)
fwcli: a single valued variable representing the generic of the 5ESS(R)-2000 switch on the far end of the OSPS Interflow link. See db/DMfwclidef.h for #defined values. Currently, the 5E5 generic is defined and nine more values are for future use

| fwcli value | associated generic |
|---|---|
| PSIF0 | 5E5 generic - |

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```
                                    FWCLI = 0x000000000000
        PSIF1                     future use
        PSIF2                     future use
        PSIF3                     future use
        PSIF4                     future use
        PSIF5                     future use
        PSIF6                     future use
        PSIF7                     future use
        PSIF8                     future use
        PSIF9                     future use
        PSIF10                    future use

    The fwcli value (24-bits) should be input in RC or ODA
    as a text string of nine characters since this string
    may be used by the switch personnel for diagnostic purposes
    such as, FWCLI xxxyyyzzz
    Each group of three characters must be converted to
    a binary number and placed in the corresponding bits
    of the 24-bit fwcli attribute as follows:
    Characters xxx occupy bits 23 through 16
    Characters yyy occupy bits 15 through 8
    Characters zzz occupy bits  7 through 0
    xxx can range from 000 through 255
    yyy can range from 000 through 255
    zzz can range from 000 through 255
```

**Defines:**

```
     "db/DMport.h"
```

# LPRT_POS

## 1. Description

Position to local port mapping.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |

## 3. Field Layout

```
LPRT_POS    relid = 625   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     lbport      DMPORT       (ushort)     <--- key
     posnum      DMPOSNUM     (ushort: 12)
     pos_typ     DMOAPOSTP    (enum: 4)
     posdb_key   DMPOSDBKEY   (ushort: 8)
         User, Compacted and Stored Tuple Layout   LPRT_POS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                       |       |
  0 |              lbport           |         posnum        |pos_typ|
    |---------------+---------------+---------------+---------------|
    |                |                                              |
  4 |   posdb_key    |**********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLlprt_pos

**Relation Description**
Local B-channel port to position mapping.

This relation contains a mapping of local B-channel port to position. This relation should be consistent with the relations RLpos_port, RLport_pos and RLpos_lprt. Consistency means that corresponding tuples in the relations: RLpos_lprt, RLlprt_pos, RLpos_port, and RLport_pos must exist, and certain attributes in these tuples must have the same value. For a list of these attributes, and a description of which relations they must be consistent with see the comments in the check section.

**Attribute: lbport**

**Fullname:** local B-channel port

**Attribute Description** See RLpos_port.gbport.member.

**Attribute: posnum**

**Fullname:** position number

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**Attribute Description** Position number connected to this port.
Restrictions: Cannot be changed if the position is logged in.

**Attribute: posdb_key**

**Fullname:** posdb key

**Attribute Description** This attribute contains the key of the relation RLposdb (when pos_typ = OA_BST), and key of the relation RLtaposdb (when pos_typ = OA_VDT or OA_INT). This attribute should not show up on the recent change view. It should be handled internally when various other attributes change. There is one posdb_key associated with each port, and each position type. Therefore, if the lbport attribute is changed, so should the posdb_key attribute.

The posdb_key is an integer between 1-200. It must have a different value for every tuple.

There are seven globals which will be used in allocating the posdb_key values. They are: Gl1poskey, Gl2poskey, Gl3poskey, Gl4poskey, Gl5posk, Gl6posk, and Gl7posk. Each bit in each global will represent a separate value for the posdb_key attribute. The values are represented as follows:

Gl1poskey:
This global represents posdb_key values 1-32. The lowest order bit in this global will represent posdb_key value 1, the next low-order bit will represent posdb_key value 2, and so on until the highest order bit is reached, and it will represent posdb_key value 32.

Gl2poskey:
This global represents posdb_key values 33-64. The lowest order bit in this global will represent posdb_key value 33, the next low-order bit will represent posdb_key value 34, and so on until the highest-order bit is reached, and it will represent posdb_key value 64.

Gl3poskey:
This global represents posdb_key values 65-96. The lowest order bit in this global will represent posdb_key value 65, the next low-order bit will represent posdb_key value 66, and so on until the highest-order bit is reached, and it will represent posdb_key value 96.

Gl4poskey:
This global represents posdb_key values 97-128. The lowest order bit in this global will represent posdb_key value 97 , the next low-order bit will represent posdb_key value 98, and so on until the highest-order bit is reached, and it will represent posdb_key value 128.

Gl5posk:
This global represents posdb_key values 129-160. The lowest order bit in this global will represent posdb_key value 129, the next low-order bit will represent posdb_key value 130, and so on until the highest-order bit is reached, and it will represent posdb_key value 160.

Gl6posk:
This global represents posdb_key values 161-192. The lowest order bit in this global will represent posdb_key value 161, the next low-order bit will represent posdb_key value 162, and so on until the highest-order bit is reached, and it will represent posdb_key value 192.

Gl7posk:
This global represents posdb_key values 193-200. Only the eight lowest-order bits are currently used in this global, with the lowest-order bit representing posdb_key value 193, and up through 200 from there.

```
Gl1poskey                    Gl2poskey
```

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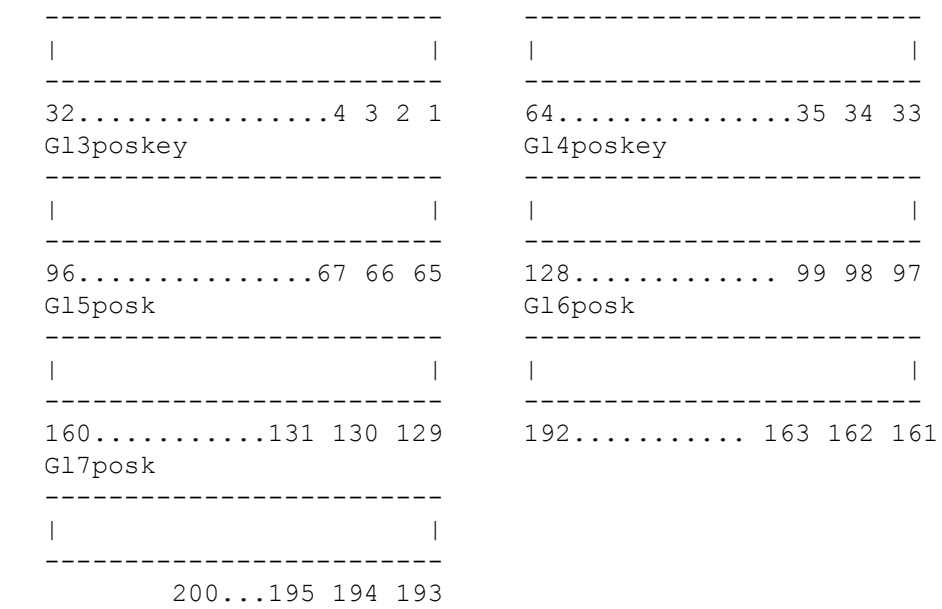


They should only reside on SM's where the osps_sm attribute in RLmodatt is set to DBYES.

**Attribute: pos_typ**

**Fullname:** position type

**Attribute Description**ependencies: This parameter will be set to OA_INT only if this is an interflow position and the B-channel port associated with this position has a class of service (servclass) of OA_IFOPER in RLfc_porttyp. This attribute can only be changed if the port using this tuple is out of service. This is indicated in the bsc_state attribute in RLPORTLA as keyed by the local b-channel port of this tuple.

**Definese:** "db/DMport.h"

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# LPRTACCS

## 1. Description

Local port ACCS.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| expected number of tuples | 52 |
| density | 44 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | OAtlprtacc |
| insert trigger | DBYES |
| update trigger | DBNO |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
LPRTACCS    relid = 892   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     lport       DMPORT       (ushort)  <--- key
     accsdb_key  DMACCSDBKEY  (ushort: 9)
         User, Compacted and Stored Tuple Layout   LPRTACCS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                 |             |
  0 |             lport             |    accsdb_key   |*************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLlprtaccs

**Relation Description**
This relation should be consistent with the dynamic SM relation RLaccsdb.

This relation will provide a sequential key to access RLaccsdb. The accsdb_key must be a non-overlapping value per switching module (SM).

**Attribute: lport**

**Fullname:** local port

**Attribute Description** Local port assignment of DSU2 port.

**Attribute: accsdb_key**

**Fullname:** ACCSdb sequence key

**Attribute Description** Sequence key for accsdb.

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# LPT_PT

## 1. Description

Logical port and port type to physical port and party mapping relation. Also contains B channel management information for an ISDN user.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 69374 |
| expected number of tuples | 1195 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| l1 length of subkey1 | 2 |
| p1 position of subkey1 | 16 |
| l2 length of subkey2 | 16 |
| p2 position of subkey2 | 0 |
| ks key store | AUTO |
| trigger function | TMtrlpt_pt |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| density | 100 |

## 3. Field Layout

```
LPT_PT      relid = 863   DBSTATIC   DBACC_CIND  DBPRAM    LPFPFG  RCMAP
     lport       DMLPORT      (ushort: 16)     <--- key
  (a) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key
     party       DMPARTY      (ushort: 4)
  (b) csv_fixed   DMBDSLBCH    (enum: 2)
  (c) csd_fixed   DMBDSLBCH    (enum: 2)
  (d) csv_bchan   DMMAXBCH     (ushort: 2)
  (e) csd_bchan   DMMAXBCH     (ushort: 2)
  (f) odb_bchan   DMMAXBCH     (ushort: 2)
     port        DMPORT       (ushort)
  (g) max_bchan   DMMAXBCH     (ushort: 2)
  (h) csv_hunt    DMBOOL       (enum: 1)
  (i) csd_hunt    DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout LPT_PT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |   |       |   |   |   |   |   |
  0 |             lport               | a | party | b | c | d | e | f |
    |---------------+---------------+---------------+---------------|
    |                                 |   | | |                       |
  4 |              port               | g |h|i|***********************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLlpt_pt

### Relation Description

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Logical port to port.

Logical port and port type to port and party mapping relation. Also contains B channel management information for an ISDN user.

Application Specific Population Rules - Default Service

BFG DESCRIPTION:
Each Default Service BFG requires a GPD tuple in RLlpt_pt. Default Service allows unknown CPE on a BRI (subscribing to Default Service) to allow originations. No terminations are allowed to a CPE utilizing Default Service.

QUANTITY OF TUPLES:
Each Default Service BFG id must have 1 tuple in RLlpt_pt populated on each SM having one or more DSL's assigned that Default Service BFG id. This is implemented using a distribution type of FG(GRP_PART) with type GPDBFG.

```
DISTRIBUTION RULES   - GROUP PARTIONED RELATION BY BFGID
                       GROUP TYPE = GPDBFG
```

This relation will be populated on the AM when the Default Service BFG is first constructed. The first time a DSL is associated with the Default Service BFG the group data will be deleted from the AM and moved to the SM associated with that DSL.

Once a Default Service BFG is deleted from the AM and inserted on an SM, the tuples will be copied from one SM to another as the Default Service BFG is assigned to DSL's on different SM's.

For further details on the specifics of handling Group Partioned Data, refer to RLdb_amgpd, RLdb_imgpd and RLdb_gpdus.

TUPLE SEMANTICS:

```
Attribute       Value
---------       ------
lport           - bfgid
lpt_type        - LPT_BFG
port            - #GLMNPORT - #GLMXPORT
party           - FCP_DFLTSRV (0)
max_bchan       - 1
csv_bchan       - 1
csd_bchan       - 0
odb_bchan       - 0
csv_hunt        - DBNO
csd_hunt        - DBNO
csv_fixed       - FCANY_CHAN
csd_fixed       - FCNO_BCHAN
```

**********

Application specific population rules - remote protocol access (RPA)

DESCRIPTION:
Remote Protocol Access ports are defined in RLdn_rdta and may be either Pseudo BRI ports or EDSL PRI trunk ports. The Pseudo BRI ports are defined in RLfc_porttyp with a servclass of TM_P_BRI and have an lport value. The trunk PRI ports have a servclass of FCEDSL, must have an lp_type of PCTBCHAN and do not have an lport value. There should not be tuples in this relation for RPA EDSL PRI trunk ports! The Pseudo BRI ports will have corresponding tuples in RLfc_line and RLrt_dntran but will not have tuples in RLpsx25ln, RLdslequip, RLequipdsl,

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RLdslgdata, RLdpidb_pt, RLdgrp_ri, RLlpt_spid, RLspid or RLri_dgrp.

TUPLE SEMANTICS for RPA Pseudo BRI Ports:

```
Attribute   Value
---------   ---------
 lport       1  - 8190
 lpt_type    LPT_ISDN
 port        valid port values (must match with  port in RLdn_rdta)
 party       0
 csv_hunt    DBNO
 csd_hunt    DBNO
 csv_fixed   FCNO_BCHAN
 csd_fixed   FCNO_BCHAN
 csv_bchan   0
 csd_bchan   0
 odb_bchan   0
 max_bchan   0
```

**Attribute: lport**

**Fullname:** logical port.

**Attribute Description** The LPORT is a sequentially assigned number administered by recent change. For more information on the allocation of LPORTs, refer to the population rules for RLrc_lphol and RLrc_qidx.

**Attribute: lpt_type**

**Fullname:** logical port type.

**Attribute Description** Logical port type of a user.

**Attribute: port**

**Fullname:** port.

**Attribute Description** port - D-channel or analog port.

**Attribute: party**

**Fullname:** party value.

**Attribute Description** If lpt_type==LPT_OTHER party = 0-9 else party = 0-7

**Attribute: csv_hunt**

**Fullname:** Circuit switched voice hunt.

**Attribute Description** Indicate if user is a member of circuit switched voice and multi-line hunt group.

**Attribute: csd_hunt**

**Fullname:** circuit switched data hunt.

**Attribute Description** Indicate if user is a member of circuit switched data multi-line hunt group.

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**Attribute: csv_fixed**

**Fullname:** circuit switched voice B channel fixed.

**Attribute Description** This attribute restricts the B channel to be used for circuit switched voice to a particular B channel.

If the value of this attribute is FCB1_CHAN or FCB2_CHAN, then the briclass must by BRI_PP. The other values for this attribute, FCNO_BCHAN and FCANY_CHAN, are allowed for BRI_MP and BRI_STD.

**Attribute: csd_fixed**

**Fullname:** circuit switched data B channel fixed.

**Attribute Description** This attribute restricts the B channel to be used for circuit switched data to a particular B channel.

If the value of this attribute is FCB1_CHAN or FCB2_CHAN, then the briclass must by BRI_PP. The other values for this attribute, FCNO_BCHAN and FCANY_CHAN, are allowed for BRI_MP and BRI_STD.

**Attribute: csv_bchan**

**Fullname:** circuit switched voice B channels.

**Attribute Description**The number of B channels allowed for circuit switched voice calls.

**Attribute: csd_bchan**

**Fullname:** circuit switched data B channels.

**Attribute Description** The number of B channels allowed for circuit switched data calls.

**Attribute: odb_bchan**

**Fullname:** Packet Switched On-Demand B-Channels

**Attribute Description** This attribute contains the number of B channels allowed for On-Demand B-Channel packet switched calls. The values of this attribute range from 0 to 2. The default for this attribute is 0.

If the Logical Port Type is not packet (LPT_PKT), then the number of On-Demand B-Channels allowed is 0. If the Logical Port Type is packet and this is an On-Demand B-Channel, then the number of On-Demand B-Channels must match RLodpsop.

**Attribute: max_bchan**

**Fullname:** maximum number of B channels.

**Attribute Description** Maximum number of B channels that this vport may use simultaneously for any on-demand service.

**Defines:** "db/DMparty.h"

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# LPT_SPID

## 1. Description

This relation contains the logical port and port type to Service Profile IDentifier mapping. The only logical port types currently populated in this relation are LPT_ISDN and LPT_PKT.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16382 |
| expected number of tuples | 232 |
| density | 73 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| l1 length of subkey 1 | 1 |
| p1 position of subkey 1 | 16 |
| l2 length of subkey 2 | 16 |
| p2 position of subkey 2 | 0 |
| trigger function | TMlpt_spid |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ignore key bits | 17 |

## 3. Field Layout

```
LPT_SPID    relid = 1229  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     lport       DMLPORT      (ushort: 16)     <--- key
 (a) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key
     npid        DMNPID       (enum: 4)
 (b) natype      DMNATYPE     (enum: 1)
     uspid       DMUSPID      (struct)
         digcnt      DMDCNT18     (uchar: 5)
         dig1        DMBCD        (ushort: 4)
         dig2        DMBCD        (ushort: 4)
         dig3        DMBCD        (ushort: 4)
         dig4        DMBCD        (ushort: 4)
         dig5        DMBCD        (ushort: 4)
         dig6        DMBCD        (ushort: 4)
         dig7        DMBCD        (ushort: 4)
         dig8        DMBCD        (ushort: 4)
         dig9        DMBCD        (ushort: 4)
         dig10       DMBCD        (ushort: 4)
         dig11       DMBCD        (ushort: 4)
         dig12       DMBCD        (ushort: 4)
         dig13       DMBCD        (ushort: 4)
         dig14       DMBCD        (ushort: 4)
         dig15       DMBCD        (ushort: 4)
         dig16       DMBCD        (ushort: 4)
         dig17       DMBCD        (ushort: 4)
         dig18       DMBCD        (ushort: 4)
     mepdn       DMMEPDN      (struct)
         nadig5      DMBCD        (ushort: 4)
         nadig1      DMBCD        (ushort: 4)
         nadig6      DMBCD        (ushort: 4)
```

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```
        nadig2      DMBCD        (ushort: 4)
        nadig7      DMBCD        (ushort: 4)
        nadig3      DMBCD        (ushort: 4)
        nadig8      DMBCD        (ushort: 4)
        nadig4      DMBCD        (ushort: 4)
    locdn       DMLOCDN      (struct)     <--- compacted
        noc         DMNOC        (ushort: 14)
        digits      DMLOCDIG     (array [ 4 ] of char )
           User Tuple Layout      LPT_SPID
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |   |       | |                 |
 0 |             lport             | a |  npid |b|*****************|
   |===============+============ uspid ============+===============|
   |         |                     |       |       |       |       |
 4 |  digcnt |*********************|  dig1 |  dig2 |  dig3 |  dig4 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 8 |  dig5 |  dig6 |  dig7 |  dig8 |  dig9 | dig10 | dig11 | dig12 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |               |
12 | dig13 | dig14 | dig15 | dig16 | dig17 | dig18 |***************|
   |===============+============ mepdn ============+===============|
   |       |       |       |       |       |       |       |       |
16 | nadig5| nadig1| nadig6| nadig2| nadig7| nadig3| nadig8| nadig4|
   |===============+============ locdn ============+===============|
   |   |                           |                               |
20 |***|            noc            |             digits            |
   | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
24 |             digits            |*******************************|
   |===============+===============+===============+===============|
     ( 28 bytes )
    lport       DMLPORT      (ushort: 16)     <--- key
(a) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key
    npid        DMNPID       (enum: 4)
(b) natype      DMNATYPE     (enum: 1)
    uspid       DMUSPID      (struct)
        digcnt      DMDCNT18     (uchar: 5)
        dig1        DMBCD        (ushort: 4)
        dig2        DMBCD        (ushort: 4)
        dig3        DMBCD        (ushort: 4)
        dig4        DMBCD        (ushort: 4)
        dig5        DMBCD        (ushort: 4)
        dig6        DMBCD        (ushort: 4)
        dig7        DMBCD        (ushort: 4)
        dig8        DMBCD        (ushort: 4)
        dig9        DMBCD        (ushort: 4)
        dig10       DMBCD        (ushort: 4)
        dig11       DMBCD        (ushort: 4)
        dig12       DMBCD        (ushort: 4)
        dig13       DMBCD        (ushort: 4)
        dig14       DMBCD        (ushort: 4)
```

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```
        dig15       DMBCD        (ushort: 4)
        dig16       DMBCD        (ushort: 4)
        dig17       DMBCD        (ushort: 4)
        dig18       DMBCD        (ushort: 4)
    mepdn       DMMEPDN      (struct)
        nadig5      DMBCD        (ushort: 4)
        nadig1      DMBCD        (ushort: 4)
        nadig6      DMBCD        (ushort: 4)
        nadig2      DMBCD        (ushort: 4)
        nadig7      DMBCD        (ushort: 4)
        nadig3      DMBCD        (ushort: 4)
        nadig8      DMBCD        (ushort: 4)
        nadig4      DMBCD        (ushort: 4)
    locdn       DMCLOCDN     (struct)     <--- compacted
        noc         DMNOC        (ushort: 14)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
         Compacted Tuple Layout   LPT_SPID
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |   |       | |                 |
 0 |             lport             | a |  npid |b|*****************|
   |===============+============ uspid ============+===============|
   |         |                     |       |       |       |       |
 4 |  digcnt |*********************|  dig1 |  dig2 |  dig3 |  dig4 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 8 |  dig5 |  dig6 |  dig7 |  dig8 |  dig9 | dig10 | dig11 | dig12 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |               |
12 | dig13 | dig14 | dig15 | dig16 | dig17 | dig18 |***************|
   |===============+============ mepdn ============+===============|
   |       |       |       |       |       |       |       |       |
16 | nadig5| nadig1| nadig6| nadig2| nadig7| nadig3| nadig8| nadig4|
   |===============+============ locdn ============+===============|
   |   |                           |       |       |       |       |
20 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
   |===============+===============+===============+===============|
   |                                                               |
24 |***************************************************************|
   |---------------+---------------+---------------+---------------|
     ( 28 bytes )
    lport       DMLPORT      (ushort: 16)     <--- key
(a) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key
    npid        DMNPID       (enum: 4)
(b) natype      DMNATYPE     (enum: 1)
    uspid       DMUSPID      (struct)
        digcnt      DMDCNT18     (uchar: 5)
        dig1        DMBCD        (ushort: 4)
        dig2        DMBCD        (ushort: 4)
        dig3        DMBCD        (ushort: 4)
```

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```
        dig4        DMBCD        (ushort: 4)
        dig5        DMBCD        (ushort: 4)
        dig6        DMBCD        (ushort: 4)
        dig7        DMBCD        (ushort: 4)
        dig8        DMBCD        (ushort: 4)
        dig9        DMBCD        (ushort: 4)
        dig10       DMBCD        (ushort: 4)
        dig11       DMBCD        (ushort: 4)
        dig12       DMBCD        (ushort: 4)
        dig13       DMBCD        (ushort: 4)
        dig14       DMBCD        (ushort: 4)
        dig15       DMBCD        (ushort: 4)
        dig16       DMBCD        (ushort: 4)
        dig17       DMBCD        (ushort: 4)
        dig18       DMBCD        (ushort: 4)
    mepdn       DMMEPDN      (struct)
        nadig5      DMBCD        (ushort: 4)
        nadig1      DMBCD        (ushort: 4)
        nadig6      DMBCD        (ushort: 4)
        nadig2      DMBCD        (ushort: 4)
        nadig7      DMBCD        (ushort: 4)
        nadig3      DMBCD        (ushort: 4)
        nadig8      DMBCD        (ushort: 4)
        nadig4      DMBCD        (ushort: 4)
    locdn       DMCLOCDN     (struct)     <--- compacted
        noc         DMNOC        (ushort: 14)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
          Stored Tuple Layout     LPT_SPID
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |   |       | |                 |
 0 |             lport             | a |  npid |b|*****************|
   |===============+============ uspid ============+===============|
   |         |                     |       |       |       |       |
 4 |  digcnt |*********************|  dig1 |  dig2 |  dig3 |  dig4 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 8 |  dig5 |  dig6 |  dig7 |  dig8 |  dig9 | dig10 | dig11 | dig12 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |               |
12 | dig13 | dig14 | dig15 | dig16 | dig17 | dig18 |***************|
   |===============+============ mepdn ============+===============|
   |       |       |       |       |       |       |       |       |
16 | nadig5| nadig1| nadig6| nadig2| nadig7| nadig3| nadig8| nadig4|
   |===============+============ locdn ============+===============|
   |   |                           |       |       |       |       |
20 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
   <===============+===============+===============+===============|
      ( 24 bytes )
```

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## 4. Population Rules for RLlpt_spid

**Relation Description**
Logical PORT (LPORT) and Logical PorT TYPE (LPT_TYPE) to Service Profile IDentifier (SPID) mapping relation

This relation is used to equate an ISDN LPORT and LPT_TYPE to its corresponding USPID,EPDN,NATYPE & NPID. The user's SPID is the USPID consisting of the USPID digits that are externally entered by the service provider, and a USPID digit count field that is internally generated by the switch.

The LPORT and LPT_TYPE are used as keys to other Service Order Profile (SOP) relations.

This relation is static and domestic.

**Attribute: lport**

**Fullname:** Logical PORT (LPORT)

**Attribute Description** The LPORT is a sequentially assigned number administered by recent change. For more information on the allocation of LPORTs, refer to the population rules for RLrc_lphol and RLrc_qidx.

**Attribute: lpt_type**

**Fullname:** Logical PorT TYPE (LPT_TYPE)

**Attribute Description** The LPT_TYPE indicates the logical port type of this LPORT.

**Attribute: natype**

**Fullname:** Network Address TYPE (NATYPE)

**Attribute Description** The NATYPE is a one bit indicator which indicates if the attribute locdn is populated or if mepdn is populated. The attribute locdn contains a NOC and 4 digit Directory Number (DN). MEPDN has a Multi-Line Hunt Group (MLHG) and member representation.

**Attribute: npid**

**Fullname:** Numbering Plan IDentifier (NPID)

**Attribute Description** The NPID indicates the type of numbering plan associated with this EPDN. Currently, only circuit and packet NPIDs are supported. The domain may allow private numbering plans in the future.

**Attribute: locdn**

**Fullname:** Local directory number

**Attribute Description** This attribute consists of the NOC (normalized office code) and four directory number digits. Note: when natype == NAT_MLHG, the locdn attribute does not contain useful information and should never be used. When natype == NAT_MLHG, locdn.noc == 8191(a pseudo NOC) and locdn.digits="0000". These values are there so that this OPVIEW relation will work correctly.

**Attribute: locdn.noc**

**Fullname:** Normalized office code

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**Attribute Description** Normalized office code

**Attribute: locdn.digits**

**Fullname:** Digits

**Attribute Description** The local dn minus the office code.

**Attribute: mepdn**

**Fullname:** Multi-line hunt group epdn

**Attribute Description** Multi-Line Hunt Group (MLHG) and Member representation.

**Attribute: uspid**

**Fullname:** User Service Profile Identifier

**Attribute Description** The USPID indicates the service provider assigned User Service Profile IDentifier.

For custom ISDN interface the USPID can be anywhere from 1 thru 10 digits. For standard ISDN interface the USPID can be anywhere from 1 thru 18 digits. No duplicate USPID allowed in the *5ESS*®-2000 switch database.

(The uspid digit count is generated, not specifically input).

New USPID = uspid.digcnt,uspid.dig1, uspid.dig2,...uspid.dig18.

Digits will be right justified when less than 18 are specified - that is, least significant digit stored in uspid.dig18. Unused digits = 0. Digits will be stored in BCD.

**Attribute: uspid.digcnt**

**Fullname:** The USPID digit count

**Attribute Description** Specifies the number of digits assigned in the USPID

**Attribute: uspid.dig[*]**

**Fullname:** Digit 1, Digit 2, .. Digit 17,Digit 18

**Attribute Description** Digits 1 thru 18 of USPID

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# LPTSPID

## 1. Description

Logical port and port type to Service Profile IDentifier mapping. The only logical port types currently populated in this relation are LPT_ISDN and LPT_PKT.

This is a virtual update relation. The tree diagram Figure 1 depicts the stored structure of virtual relation LPTSPID.

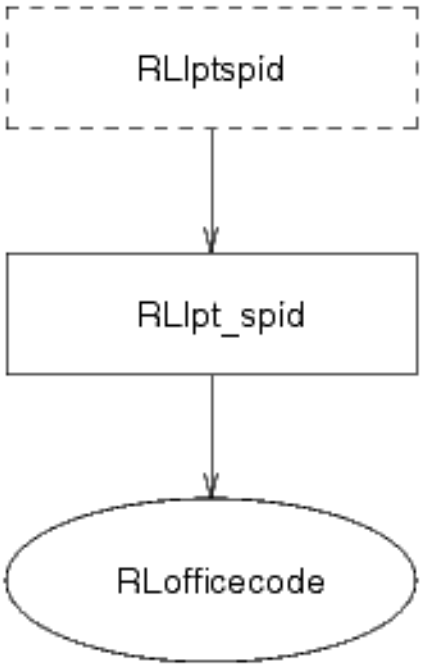


**Figure 1 Virtual Relation LPTSPID**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FP |
| relation type | DBNOUPDT |

## 3. Field Layout

```
LPTSPID     relid = 2742  DBNOUPDT   DBACC_OPV   DBNOTODD  FP      NULL
     uspid       DMUSPID      (struct)
         digcnt      DMDCNT18     (uchar: 5)
         dig1        DMBCD        (ushort: 4)
         dig2        DMBCD        (ushort: 4)
         dig3        DMBCD        (ushort: 4)
         dig4        DMBCD        (ushort: 4)
         dig5        DMBCD        (ushort: 4)
         dig6        DMBCD        (ushort: 4)
         dig7        DMBCD        (ushort: 4)
         dig8        DMBCD        (ushort: 4)
         dig9        DMBCD        (ushort: 4)
         dig10       DMBCD        (ushort: 4)
         dig11       DMBCD        (ushort: 4)
```

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```
        dig12       DMBCD        (ushort: 4)
        dig13       DMBCD        (ushort: 4)
        dig14       DMBCD        (ushort: 4)
        dig15       DMBCD        (ushort: 4)
        dig16       DMBCD        (ushort: 4)
        dig17       DMBCD        (ushort: 4)
        dig18       DMBCD        (ushort: 4)
    mepdn       DMMEPDN      (struct)
        nadig5      DMBCD        (ushort: 4)
        nadig1      DMBCD        (ushort: 4)
        nadig6      DMBCD        (ushort: 4)
        nadig2      DMBCD        (ushort: 4)
        nadig7      DMBCD        (ushort: 4)
        nadig3      DMBCD        (ushort: 4)
        nadig8      DMBCD        (ushort: 4)
        nadig4      DMBCD        (ushort: 4)
    epdn        DMEPDN       (struct)     <--- compacted
        nadig5      DMUNS4       (ushort: 4)
        nadig1      DMUNS4       (ushort: 4)
        nadig6      DMUNS4       (ushort: 4)
        nadig2      DMUNS4       (ushort: 4)
        nadig7      DMUNS4       (ushort: 4)
        nadig3      DMUNS4       (ushort: 4)
        nadig8      DMUNS4       (ushort: 4)
        nadig4      DMUNS4       (ushort: 4)
        nadig13     DMUNS4       (ushort: 4)
        nadig9      DMUNS4       (ushort: 4)
        nadig14     DMUNS4       (ushort: 4)
        nadig10     DMUNS4       (ushort: 4)
        nadig15     DMUNS4       (ushort: 4)
        nadig11     DMUNS4       (ushort: 4)
(a)     nadigcnt    DMUNS4       (ushort: 4)
        nadig12     DMUNS4       (ushort: 4)
    lport       DMLPORT      (ushort: 16)     <--- key
(b) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key
    npid        DMNPID       (enum: 4)
(c) natype      DMNATYPE     (enum: 1)
           User Tuple Layout   LPTSPID
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+============ uspid ============+===============|
   |         |                     |       |       |       |       |
 0 |  digcnt |*********************|  dig1 |  dig2 |  dig3 |  dig4 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 4 |  dig5 |  dig6 |  dig7 |  dig8 |  dig9 | dig10 | dig11 | dig12 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |               |
 8 | dig13 | dig14 | dig15 | dig16 | dig17 | dig18 |***************|
   |===============+============ mepdn ============+===============|
   |       |       |       |       |       |       |       |       |
12 | nadig5| nadig1| nadig6| nadig2| nadig7| nadig3| nadig8| nadig4|
   |===============+============  epdn ============+===============|
   |       |       |       |       |       |       |       |       |
```

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```
 16 | nadig5| nadig1| nadig6| nadig2| nadig7| nadig3| nadig8| nadig4|
    |-------+-------+-------+-------+-------+-------+-------+-------|
    |       |       |       |       |       |       |       |       |
 20 |nadig13| nadig9|nadig14|nadig10|nadig15|nadig11|   a   |nadig12|
    |=======+=======+=======+=======+=======+=======+=======+=======|
    |                               |   |       | |                 |
 24 |             lport             | b |  npid |c|*****************|
    |---------------+---------------+---+-------+-+-----------------|
      ( 28 bytes )
        uspid       DMUSPID      (struct)
        digcnt      DMDCNT18     (uchar: 5)
        dig1        DMBCD        (ushort: 4)
        dig2        DMBCD        (ushort: 4)
        dig3        DMBCD        (ushort: 4)
        dig4        DMBCD        (ushort: 4)
        dig5        DMBCD        (ushort: 4)
        dig6        DMBCD        (ushort: 4)
        dig7        DMBCD        (ushort: 4)
        dig8        DMBCD        (ushort: 4)
        dig9        DMBCD        (ushort: 4)
        dig10       DMBCD        (ushort: 4)
        dig11       DMBCD        (ushort: 4)
        dig12       DMBCD        (ushort: 4)
        dig13       DMBCD        (ushort: 4)
        dig14       DMBCD        (ushort: 4)
        dig15       DMBCD        (ushort: 4)
        dig16       DMBCD        (ushort: 4)
        dig17       DMBCD        (ushort: 4)
        dig18       DMBCD        (ushort: 4)
    mepdn       DMMEPDN      (struct)
        nadig5      DMBCD        (ushort: 4)
        nadig1      DMBCD        (ushort: 4)
        nadig6      DMBCD        (ushort: 4)
        nadig2      DMBCD        (ushort: 4)
        nadig7      DMBCD        (ushort: 4)
        nadig3      DMBCD        (ushort: 4)
        nadig8      DMBCD        (ushort: 4)
        nadig4      DMBCD        (ushort: 4)
    epdn        DMCEPDN      (struct)     <--- compacted
        npa         DMUNL10      (ulong: 10)
        nxx         DMUNL10      (ulong: 10)
        nadig8      DMUNS4       (ushort: 4)
        nadig7      DMUNS4       (ushort: 4)
        nadig13     DMUNS4       (ushort: 4)
        nadig9      DMUNS4       (ushort: 4)
        nadig14     DMUNS4       (ushort: 4)
        nadig10     DMUNS4       (ushort: 4)
        nadig15     DMUNS4       (ushort: 4)
        nadig11     DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        nadig12     DMUNS4       (ushort: 4)
    lport       DMLPORT      (ushort: 16)     <--- key
(a) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key
    npid        DMNPID       (enum: 4)
```

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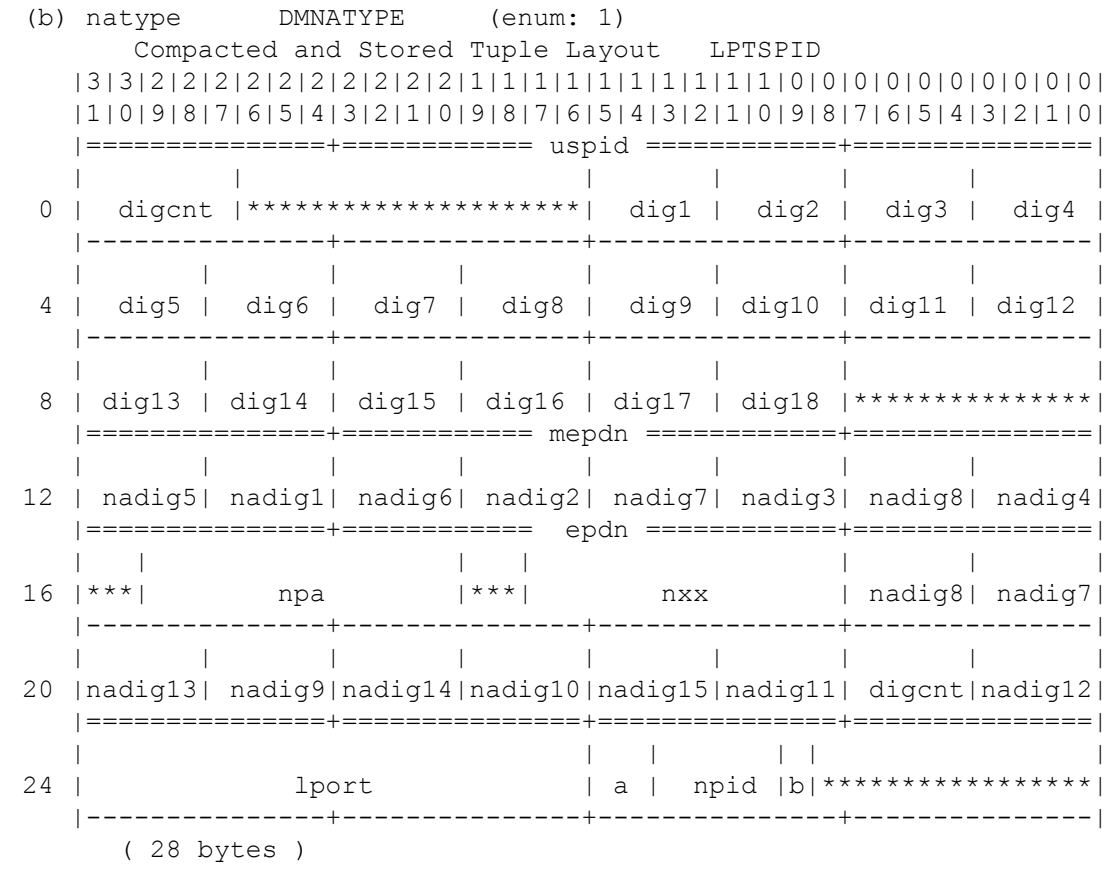


## 4. Population Rules for RLlptspid

There are no population rules for this relation.

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# LRNTBL

## 1. Description

This is the location routing number table (LRNTB) relation.

For local number portability, this relation is used to determine a location routing number (LRN) given the LRN index (a shorthand representation for the LRN).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 127 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| expected number of tuples | 10 |

## 3. Field Layout

```
LRNTBL      relid = 2582  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     spare1       DMUSHORT     (ushort)
     spare2       DMCHAR       (char)
     lrn_idx      DMUNS7       (ushort: 7)     <--- key
 (a) spare3       DMBOOL       (enum: 1)
     portdn_das   DMDA_TREE    (ushort: 7)
     lrn          DMDN10_BCD   (struct)
         dn0          DMBCD        (ushort: 4)
         dn1          DMBCD        (ushort: 4)
         dn2          DMBCD        (ushort: 4)
         dn3          DMBCD        (ushort: 4)
         dn4          DMBCD        (ushort: 4)
         dn5          DMBCD        (ushort: 4)
         dn6          DMBCD        (ushort: 4)
         dn7          DMBCD        (ushort: 4)
         dn8          DMBCD        (ushort: 4)
         dn9          DMBCD        (ushort: 4)
         digcnt       DMDIGCNT     (uchar: 4)
         User, Compacted and Stored Tuple Layout LRNTBL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |             | |
  0 |             spare1            |     spare2    |   lrn_idx   |a|
    |---------------+---------------+---------------+---------------|
    |             |                                                 |
  4 |  portdn_das |*************************************************|
    |===============+============= lrn =============+===============|
    |       |       |       |       |       |       |       |       |
  8 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |                                       |
 12 |  dn8  |  dn9  | digcnt|***************************************|
    |===============+===============+===============+===============|
       ( 16 bytes )
```

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## 4. Population Rules for RLlrntbl

**Relation Description**
Location Routing Number Table

For local number portability, this relation is used to determine a location routing number (LRN) given the LRN index (a shorthand representation for the LRN).

**Attribute: lrn_idx**

**Fullname:** location routing number index

**Attribute Description** This attribute maps directly to a location routing number.

**Attribute: lrn**

**Fullname:** location routing number

**Attribute Description** This attribute stores the maximum of 10 BCD digits and a digit count of the location routing number.

**Attribute: portdn_das**

**Fullname:** Ported directory number digit analysis tree selector

**Attribute Description** This attribute is currently a spare to be used in the future.

**Attribute: spare1**

**Fullname:** spare ushort

**Attribute Description** This is a spare field for future use.

**Attribute: spare2**

**Fullname:** spare char

**Attribute Description** This is a spare field for future use.

**Attribute: spare3**

**Fullname:** spare bit

**Attribute Description** This is a spare field for future use.

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# LS_CLS

## 1. Description

This relation gives all the combined link sets of which the link set is a member of.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 256 |
| expected number of tuples | 4 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
LS_CLS      relid = 2371  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     lsnum       DMUNS10      (ushort: 10)     <--- key
     cls00       DMCLNK_SET   (ushort)
     cls01       DMCLNK_SET   (ushort)
     cls02       DMCLNK_SET   (ushort)
     cls03       DMCLNK_SET   (ushort)
     cls04       DMCLNK_SET   (ushort)
     cls05       DMCLNK_SET   (ushort)
     cls06       DMCLNK_SET   (ushort)
     cls07       DMCLNK_SET   (ushort)
     cls08       DMCLNK_SET   (ushort)
     cls09       DMCLNK_SET   (ushort)
     cls10       DMCLNK_SET   (ushort)
     cls11       DMCLNK_SET   (ushort)
     cls12       DMCLNK_SET   (ushort)
     cls13       DMCLNK_SET   (ushort)
     cls14       DMCLNK_SET   (ushort)
     cls15       DMCLNK_SET   (ushort)
     cls16       DMCLNK_SET   (ushort)
     cls17       DMCLNK_SET   (ushort)
     cls18       DMCLNK_SET   (ushort)
     cls19       DMCLNK_SET   (ushort)
     cls20       DMCLNK_SET   (ushort)
     cls21       DMCLNK_SET   (ushort)
     cls22       DMCLNK_SET   (ushort)
     cls23       DMCLNK_SET   (ushort)
     cls24       DMCLNK_SET   (ushort)
     cls25       DMCLNK_SET   (ushort)
     cls26       DMCLNK_SET   (ushort)
     cls27       DMCLNK_SET   (ushort)
     cls28       DMCLNK_SET   (ushort)
     cls29       DMCLNK_SET   (ushort)
     cls30       DMCLNK_SET   (ushort)
     cls31       DMCLNK_SET   (ushort)
         User, Compacted and Stored Tuple Layout LS_CLS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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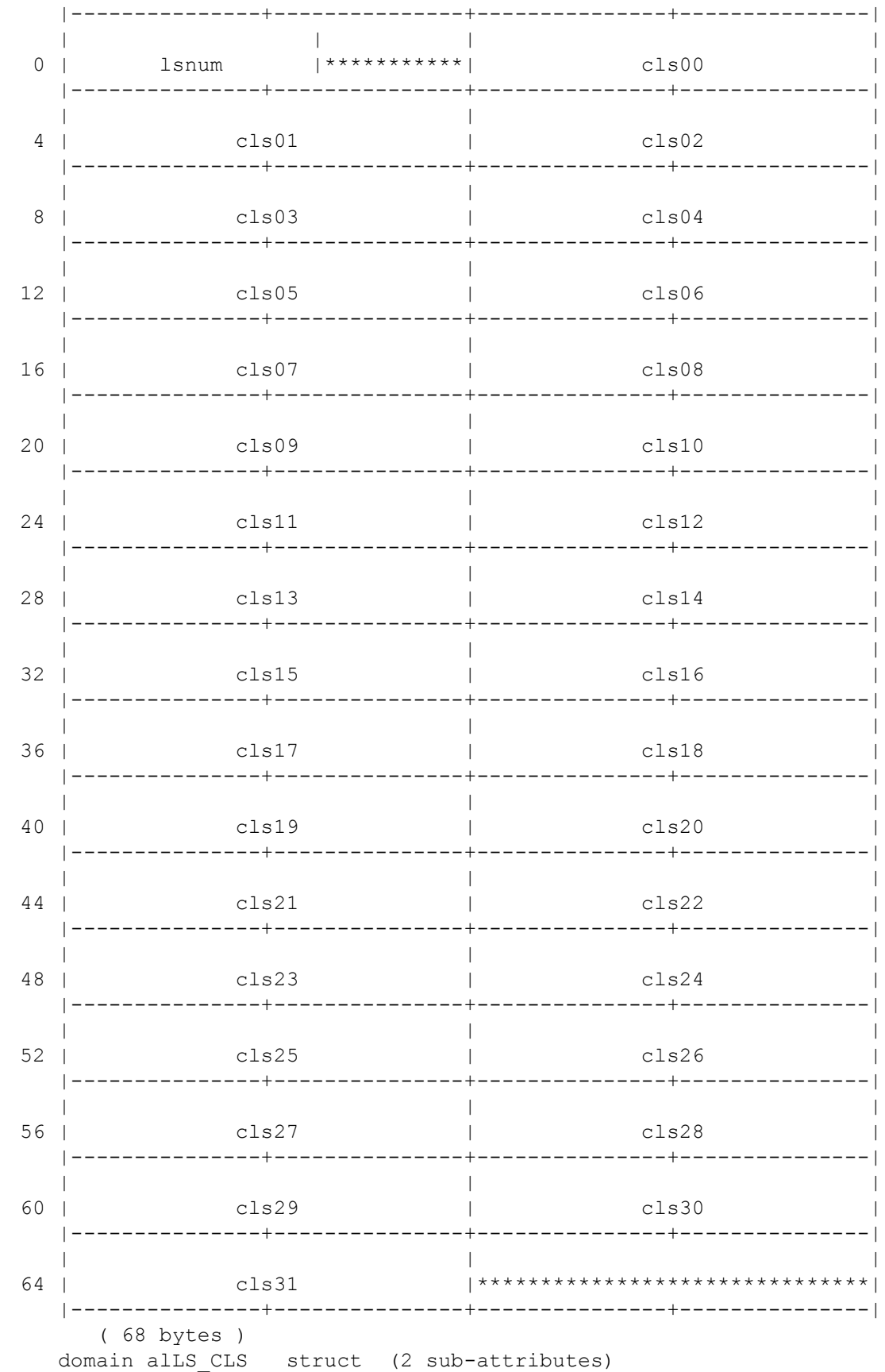


( 68 bytes )
domain alLS_CLS struct (2 sub-attributes)

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```
        lsnum       .1.fake      (ushort: 10)
        cls         .2.fake      (array [ 32 ] of unsigned short )

        Structure Layout      alLS_CLS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |           |                               |
  0 |       lsnum       |***********|              cls              |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                               cls                             |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                      .
                                      .
                                      .
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 60 |                               cls                             |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                   |                           |
 64 |              cls                  |***************************|
    |---------------+---------------+---------------+---------------|
       ( 68 bytes )
```

## 4. Population Rules for RLls_cls

**Relation Description**
Link set to combined link set mapping

This relation defines the combined link sets of which the link set is a member.

**Attribute: lsnum**

**Fullname:** Link set number

**Attribute Description**This attribute defines the link set number.

**Attribute: cls[*]**

**Fullname:** Combined Link Set

**Attribute Description** These attributes define the Combined Link sets of which the link set is a member.

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# LS_CLUST

## 1. Description

This relation will indicate every cluster that might possibly be affected by a change in the status of a linkset. It is keyed by the linkset number, and has a bitmap with one bit for each cluster index. The bit for a cluster index will be set if the linkset is a part of the routeset for the cluster.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 256 |
| expected number of tuples | 4 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| relation type | DBSTATIC |
| distribution | FP |
| permutation type | un_perm |

## 3. Field Layout

### 3.1 LS_CLUST Field Layout continued.

```
LS_CLUST    relid = 3137  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     lsnum       DMC7LS       (ushort: 8)       <--- key
     clix00      DMHEX32      (ulong)
     clix01      DMHEX32      (ulong)
     clix02      DMHEX32      (ulong)
     clix03      DMHEX32      (ulong)
     clix04      DMHEX32      (ulong)
     clix05      DMHEX32      (ulong)
     clix06      DMHEX32      (ulong)
     clix07      DMHEX32      (ulong)
     clix08      DMHEX32      (ulong)
     clix09      DMHEX32      (ulong)
     clix10      DMHEX32      (ulong)
     clix11      DMHEX32      (ulong)
     clix12      DMHEX32      (ulong)
     clix13      DMHEX32      (ulong)
     clix14      DMHEX32      (ulong)
     clix15      DMHEX32      (ulong)
     clix16      DMHEX32      (ulong)
     clix17      DMHEX32      (ulong)
     clix18      DMHEX32      (ulong)
     clix19      DMHEX32      (ulong)
     clix20      DMHEX32      (ulong)
     clix21      DMHEX32      (ulong)
     clix22      DMHEX32      (ulong)
     clix23      DMHEX32      (ulong)
     clix24      DMHEX32      (ulong)
     clix25      DMHEX32      (ulong)
     clix26      DMHEX32      (ulong)
     clix27      DMHEX32      (ulong)
     clix28      DMHEX32      (ulong)
     clix29      DMHEX32      (ulong)
```

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```
clix30      DMHEX32      (ulong)
clix31      DMHEX32      (ulong)
clix32      DMHEX32      (ulong)
clix33      DMHEX32      (ulong)
clix34      DMHEX32      (ulong)
clix35      DMHEX32      (ulong)
clix36      DMHEX32      (ulong)
clix37      DMHEX32      (ulong)
clix38      DMHEX32      (ulong)
clix39      DMHEX32      (ulong)
clix40      DMHEX32      (ulong)
clix41      DMHEX32      (ulong)
clix42      DMHEX32      (ulong)
clix43      DMHEX32      (ulong)
clix44      DMHEX32      (ulong)
clix45      DMHEX32      (ulong)
clix46      DMHEX32      (ulong)
clix47      DMHEX32      (ulong)
clix48      DMHEX32      (ulong)
clix49      DMHEX32      (ulong)
clix50      DMHEX32      (ulong)
clix51      DMHEX32      (ulong)
clix52      DMHEX32      (ulong)
clix53      DMHEX32      (ulong)
clix54      DMHEX32      (ulong)
clix55      DMHEX32      (ulong)
clix56      DMHEX32      (ulong)
clix57      DMHEX32      (ulong)
clix58      DMHEX32      (ulong)
clix59      DMHEX32      (ulong)
clix60      DMHEX32      (ulong)
clix61      DMHEX32      (ulong)
clix62      DMHEX32      (ulong)
clix63      DMHEX32      (ulong)
clix64      DMHEX32      (ulong)
clix65      DMHEX32      (ulong)
clix66      DMHEX32      (ulong)
clix67      DMHEX32      (ulong)
clix68      DMHEX32      (ulong)
clix69      DMHEX32      (ulong)
clix70      DMHEX32      (ulong)
clix71      DMHEX32      (ulong)
clix72      DMHEX32      (ulong)
clix73      DMHEX32      (ulong)
clix74      DMHEX32      (ulong)
clix75      DMHEX32      (ulong)
clix76      DMHEX32      (ulong)
clix77      DMHEX32      (ulong)
clix78      DMHEX32      (ulong)
clix79      DMHEX32      (ulong)
clix80      DMHEX32      (ulong)
clix81      DMHEX32      (ulong)
clix82      DMHEX32      (ulong)
clix83      DMHEX32      (ulong)
```

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```
clix84      DMHEX32      (ulong)
clix85      DMHEX32      (ulong)
clix86      DMHEX32      (ulong)
clix87      DMHEX32      (ulong)
clix88      DMHEX32      (ulong)
clix89      DMHEX32      (ulong)
clix90      DMHEX32      (ulong)
clix91      DMHEX32      (ulong)
clix92      DMHEX32      (ulong)
clix93      DMHEX32      (ulong)
clix94      DMHEX32      (ulong)
clix95      DMHEX32      (ulong)
clix96      DMHEX32      (ulong)
clix97      DMHEX32      (ulong)
clix98      DMHEX32      (ulong)
clix99      DMHEX32      (ulong)
clix100     DMHEX32      (ulong)
clix101     DMHEX32      (ulong)
clix102     DMHEX32      (ulong)
clix103     DMHEX32      (ulong)
clix104     DMHEX32      (ulong)
clix105     DMHEX32      (ulong)
clix106     DMHEX32      (ulong)
clix107     DMHEX32      (ulong)
clix108     DMHEX32      (ulong)
clix109     DMHEX32      (ulong)
clix110     DMHEX32      (ulong)
clix111     DMHEX32      (ulong)
clix112     DMHEX32      (ulong)
clix113     DMHEX32      (ulong)
clix114     DMHEX32      (ulong)
clix115     DMHEX32      (ulong)
clix116     DMHEX32      (ulong)
clix117     DMHEX32      (ulong)
clix118     DMHEX32      (ulong)
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clix120     DMHEX32      (ulong)
clix121     DMHEX32      (ulong)
clix122     DMHEX32      (ulong)
clix123     DMHEX32      (ulong)
clix124     DMHEX32      (ulong)
clix125     DMHEX32      (ulong)
clix126     DMHEX32      (ulong)
clix127     DMHEX32      (ulong)
clix128     DMHEX32      (ulong)
clix129     DMHEX32      (ulong)
clix130     DMHEX32      (ulong)
clix131     DMHEX32      (ulong)
clix132     DMHEX32      (ulong)
clix133     DMHEX32      (ulong)
clix134     DMHEX32      (ulong)
clix135     DMHEX32      (ulong)
clix136     DMHEX32      (ulong)
clix137     DMHEX32      (ulong)
```

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```
clix138     DMHEX32      (ulong)
clix139     DMHEX32      (ulong)
clix140     DMHEX32      (ulong)
clix141     DMHEX32      (ulong)
clix142     DMHEX32      (ulong)
clix143     DMHEX32      (ulong)
clix144     DMHEX32      (ulong)
clix145     DMHEX32      (ulong)
clix146     DMHEX32      (ulong)
clix147     DMHEX32      (ulong)
clix148     DMHEX32      (ulong)
clix149     DMHEX32      (ulong)
clix150     DMHEX32      (ulong)
clix151     DMHEX32      (ulong)
clix152     DMHEX32      (ulong)
clix153     DMHEX32      (ulong)
clix154     DMHEX32      (ulong)
clix155     DMHEX32      (ulong)
clix156     DMHEX32      (ulong)
clix157     DMHEX32      (ulong)
clix158     DMHEX32      (ulong)
clix159     DMHEX32      (ulong)
clix160     DMHEX32      (ulong)
clix161     DMHEX32      (ulong)
clix162     DMHEX32      (ulong)
clix163     DMHEX32      (ulong)
clix164     DMHEX32      (ulong)
clix165     DMHEX32      (ulong)
clix166     DMHEX32      (ulong)
clix167     DMHEX32      (ulong)
clix168     DMHEX32      (ulong)
clix169     DMHEX32      (ulong)
clix170     DMHEX32      (ulong)
clix171     DMHEX32      (ulong)
clix172     DMHEX32      (ulong)
clix173     DMHEX32      (ulong)
clix174     DMHEX32      (ulong)
clix175     DMHEX32      (ulong)
clix176     DMHEX32      (ulong)
clix177     DMHEX32      (ulong)
clix178     DMHEX32      (ulong)
clix179     DMHEX32      (ulong)
clix180     DMHEX32      (ulong)
clix181     DMHEX32      (ulong)
clix182     DMHEX32      (ulong)
clix183     DMHEX32      (ulong)
clix184     DMHEX32      (ulong)
clix185     DMHEX32      (ulong)
clix186     DMHEX32      (ulong)
clix187     DMHEX32      (ulong)
clix188     DMHEX32      (ulong)
clix189     DMHEX32      (ulong)
clix190     DMHEX32      (ulong)
clix191     DMHEX32      (ulong)
```

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```
     clix192     DMHEX32      (ulong)
     clix193     DMHEX32      (ulong)
     clix194     DMHEX32      (ulong)
     clix195     DMHEX32      (ulong)
     clix196     DMHEX32      (ulong)
     clix197     DMHEX32      (ulong)
     clix198     DMHEX32      (ulong)
     clix199     DMHEX32      (ulong)
     clix200     DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   LS_CLUST
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |     lsnum     |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             clix00                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             clix01                            |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                                                               |
800 |                            clix199                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
804 |                            clix200                            |
    |---------------+---------------+---------------+---------------|
       ( 808 bytes )


domain alLS_CLUST struct  (2 sub-attributes)
         lsnum       .1.fake      (ushort)
         clix        .2.fake      (array [ 201 ] of unsigned long )
                     Structure Layout    alLS_CLUST
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |     lsnum     |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                              clix                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                              clix                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                    .
                                    .
                                    .
```

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```
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
800 |                           clix                                |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
804 |                           clix                                |
    |---------------+---------------+---------------+---------------|
       ( 808 bytes )
```

### 3.2 LS_CLUST Field Layout

## 4. Population rules for RLls_clust

**Relation Description**

Linkset to cluster index relation

This relation will indicate every cluster that might possibly be affected by a change in the status of a linkset. It is keyed by the linkset number, and has a bitmap with one bit for each cluster index. The bit for a cluster index will be set if the linkset is a part of the routeset for the cluster.

**Attribute:**
lsnum
**Fullname:**
Link Set Number
**Attribute Description:**
Link Set number, also key to RLls_grp

```
/* Same for clix01 thru clix200 */
```

**Attribute:**
clix00
**Fullname:**
CLIX bitmap
**Attribute Description:**
201 32-bit bitmaps that indicate which cluster indexes can be served by this linkset.

**Defines:**
"db/DBls_stat.h",
"ccs/CCc7_param.h",
"ct/CTrstatus.h"

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# LS_DPC

## 1. Description

The Standardization Sector (SS7) (national and international versions) link set to affected dpc translation relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 256 |
| expected number of tuples | 4 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
LS_DPC      relid = 2372  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     lnk_set     DMUNS8       (ushort: 8)     <--- key
     fill1       DMUCHAR      (uchar)
     fill2       DMUCHAR      (uchar)
     fill3       DMUCHAR      (uchar)
     dpci_00     DMHEX32      (ulong)
     dpci_01     DMHEX32      (ulong)
     dpci_02     DMHEX32      (ulong)
     dpci_03     DMHEX32      (ulong)
     dpci_04     DMHEX32      (ulong)
     dpci_05     DMHEX32      (ulong)
     dpci_06     DMHEX32      (ulong)
     dpci_07     DMHEX32      (ulong)
     dpci_08     DMHEX32      (ulong)
     dpci_09     DMHEX32      (ulong)
     dpci_10     DMHEX32      (ulong)
     dpci_11     DMHEX32      (ulong)
     dpci_12     DMHEX32      (ulong)
     dpci_13     DMHEX32      (ulong)
     dpci_14     DMHEX32      (ulong)
     dpci_15     DMHEX32      (ulong)
     dpci_16     DMHEX32      (ulong)
     dpci_17     DMHEX32      (ulong)
     dpci_18     DMHEX32      (ulong)
     dpci_19     DMHEX32      (ulong)
     dpci_20     DMHEX32      (ulong)
     dpci_21     DMHEX32      (ulong)
     dpci_22     DMHEX32      (ulong)
     dpci_23     DMHEX32      (ulong)
     dpci_24     DMHEX32      (ulong)
     dpci_25     DMHEX32      (ulong)
     dpci_26     DMHEX32      (ulong)
     dpci_27     DMHEX32      (ulong)
     dpci_28     DMHEX32      (ulong)
     dpci_29     DMHEX32      (ulong)
     dpci_30     DMHEX32      (ulong)
     dpci_31     DMHEX32      (ulong)
```

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```
     dpci_32     DMHEX32      (ulong)
     dpci_33     DMHEX32      (ulong)
     dpci_34     DMHEX32      (ulong)
     dpci_35     DMHEX32      (ulong)
     dpci_36     DMHEX32      (ulong)
     dpci_37     DMHEX32      (ulong)
     dpci_38     DMHEX32      (ulong)
     dpci_39     DMHEX32      (ulong)
     dpci_40     DMHEX32      (ulong)
     dpci_41     DMHEX32      (ulong)
     dpci_42     DMHEX32      (ulong)
     dpci_43     DMHEX32      (ulong)
     dpci_44     DMHEX32      (ulong)
     dpci_45     DMHEX32      (ulong)
     dpci_46     DMHEX32      (ulong)
     dpci_47     DMHEX32      (ulong)
     dpci_48     DMHEX32      (ulong)
     dpci_49     DMHEX32      (ulong)
     dpci_50     DMHEX32      (ulong)
     dpci_51     DMHEX32      (ulong)
     dpci_52     DMHEX32      (ulong)
     dpci_53     DMHEX32      (ulong)
     dpci_54     DMHEX32      (ulong)
     dpci_55     DMHEX32      (ulong)
     dpci_56     DMHEX32      (ulong)
     dpci_57     DMHEX32      (ulong)
     dpci_58     DMHEX32      (ulong)
     dpci_59     DMHEX32      (ulong)
     dpci_60     DMHEX32      (ulong)
     dpci_61     DMHEX32      (ulong)
     dpci_62     DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout LS_DPC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  0 |    lnk_set    |     fill1     |     fill2     |     fill3     |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            dpci_00                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                            dpci_01                            |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                                                               |
248 |                            dpci_61                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
252 |                            dpci_62                            |
    |---------------+---------------+---------------+---------------|
```

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```
      ( 256 bytes )
  domain alLS_DPC   struct  (5 sub-attributes)
         lnk_set     .1.fake      (ushort)
         fill1       unsigned char (uchar)
         fill2       unsigned char (uchar)
         fill3       unsigned char (uchar)
         dpci_ind

         Structure Layout      alLS_DPC
     |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
     |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
     |---------------+---------------+---------------+---------------|
     |               |               |               |               |
   0 |    lnk_set    |     fill1     |     fill2     |     fill3     |
     |---------------+---------------+---------------+---------------|
     |                                                               |
   4 |                            dpci_ind                           |
     | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
     |                                                               |
   8 |                            dpci_ind                           |
     | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                     .
                                     .
                                     .
     | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
     |                                                               |
 248 |                            dpci_ind                           |
     | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
     |                                                               |
 252 |                            dpci_ind                           |
     |---------------+---------------+---------------+---------------|
        ( 256 bytes )
```

## 4. Population Rules for RLls_dpc

**Relation Description**
Link set to destination point code mapping.

For every destination point code being engineered, a link set/combined link set (CLS) may be assigned as a normal or alternate link set/CLS to serve the destination. A link set/CLS may be assigned many times to serve a variety of destinations as either the normal or alternate link set/CLS. Thus this relation is used to define the set of destinations which can be served by the link set or component of the combined link set.

This relation provides for the mapping of one link set to 2000 destinations.

When a tuple is created for RLls_grp, a tuple for this relation (RLls_dpc) must also be created and initialized with all zeroes except for dpci_00 bit 0, which is set to 1 to indicate that no dpci's are yet assigned to this link set.

This relation is used by both the national and international versions of Standardization Sector (SS7). The global SMs for these two versions must be separate, and any partitioned relations, like this one, must be populated independently on each global SM. This includes any index values retrieved from the RLindx relation that are used to populate this relation. RLindx is also global SM partitioned, so the proper partitioned data must be used from RLindx when populating any attributes in this relation.

**Attribute: lnk_set**

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**Fullname:** Link set number.

**Attribute Description** Indicates link set number.

**Attribute: dpci[*]**

**Fullname:** Destination point code index (dpci) bit arrays (each containing bits for dpci 0 thru 31).

**Attribute Description** Attributes dpci_00 thru dpci_62 comprise an array of bits which are used to indicate which dpci's are served by the link set or components of combined link set. The layout of the dpci bit array is shown here.

```
high                                                    low
order                                                  order
|--31--30--29--28--27--26-  ...  -05--04--03--02--01--00-| bit position
|-------------------------  ...  ------------------------|
|  D   D   D   D   D   D    ...   D   D   D   D   D   D  |
|  P   P   P   P   P   P    ...   P   P   P   P   P   P  |
|  C   C   C   C   C   C    ...   C   C   C   C   C   C  |  dpci_00
|  I   I   I   I   I   I    ...   I   I   I   I   I   I  |
|  31  30  29  28  27  26   ...   05  04  03  02  01  00 |
|-------------------------  ...  ------------------------|
|  .   .   .   .   .   .    ...   .   .   .   .   .   .  |
|  .   .   .   .   .   .    ...   .   .   .   .   .   .  |
|  .   .   .   .   .   .    ...   .   .   .   .   .   .  |
|-------------------------  ...  ------------------------|
|  D   D   D   D   D   D    ...   D   D   D   D   D   D  |
|  P   P   P   P   P   P    ...   P   P   P   P   P   P  |
|  C   C   C   C   C   C    ...   C   C   C   C   C   C  | dpci_62
|  I   I   I   I   I   I    ...   I   I   I   I   I   I  |
| 2015 -------------------  ...  ------------------- 1984|
|-------------------------  ...  ------------------------|
```

When a link set is assigned to serve a dpc as either a normal or alternate link set, an entry is made in the link set's bit array, or when a CLS is assigned to serve a dpc as either a normal or alternate CLS, an entry is made in the component link set's bit array as follows:

1. Divide the dpci being served by 32 to obtain the element in the array to be modified (such as, for dpci == 0..31, modify dpci_00: for dpci == 32..63, modify dpci_01, etc.)

2. Set the dpci = dpci & 0x1f to obtain a bit position in the array element.

3. Set the bit position to 1. Whenever a destination's assigned dpci changes, all link sets or components of CLS which can be used to serve the destination must zero the bit associated with the old dpci and set the bit associated with the new dpci. Also, if a link set/CLS is deleted from the set of the link sets/CLSs which can serve a destination, then the bit associated with the destination's dpci must be set to 0.

Since a dpci of 0 is not a valid dpci, setting bit 0 of array element dpci_00 to 1 is used to indicate that the link set has not yet been assigned to any dpci.

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# LS_GRP

## 1. Description

This relation consist of information on a particular link set; the number of links in this link set, number of active links in this link set, number of loaded links in the link set.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 256 |
| expected number of tuples | 4 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCls_grp |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
LS_GRP      relid = 2373  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


    polindx     DMUNS9       (ushort: 9)
    numcls      DMUNS6       (ushort: 6)
 (a) oloterm    DMBOOL       (enum: 1)
    lsnum       DMUNS8       (ushort: 8)       <--- key
    apci        DMUNS8       (ushort: 8)
    acclsindx   DMUNS8       (ushort: 8)
    nlnks       DMUNS5       (ushort: 5)
 (b) sif_cap    DMSIFCAP     (enum: 2)
 (c) inh_protocol  DMBOOL       (enum: 1)
    alnks       DMUNS5       (ushort: 5)
    llnks       DMUNS5       (ushort: 5)
 (d) lnk_sel    DMLNKSEL     (enum: 2)
 (e) link_type  DMLNKTYPE    (enum: 2)
 (f) auto_alloc DMBOOL       (enum: 1)
 (g) internal   DMBOOL       (enum: 1)
 (h) ilsdpol    DMBOOL       (enum: 1)
 (i) jtls_sel   DMUNS1       (ushort: 1)
        User, Compacted and Stored Tuple Layout LS_GRP
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                 |           | |               |               |
 0 |     polindx     |   numcls  |a|     lsnum     |      apci     |
   |---------------+---------------+---------------+---------------|
   |               |         |   | |         |         |   |   | | |
 4 |   acclsindx   |  nlnks  | b |c|  alnks  |  llnks  | d | e |f|g|
   |---------------+---------------+---------------+---------------|
   | | |                                                           |
 8 |h|i|***********************************************************|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

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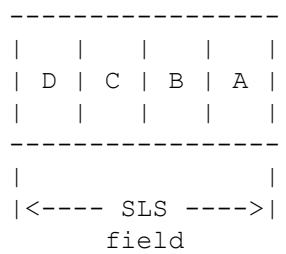
## 4. Population rules for RLls_grp

### Relation Description

Link set group.

The purpose of this relation is to provide information on a link set basis, that is, the number of links in this link set, the number of active links in this link set, the number of loaded links in the link set, the number of combined link sets of which the link set is a member, if Automatic Allocation of Signaling Data Links is on or off for this link set, the policing index, the adjacent point code index and whether or not the link set terminates on an 'other liscensed operator'.

This relation indicates the two adjacent bits in the SLS field used for link selection. The attribute used for it is lnk_sel in the set {CCLNK_BA, CCLNK_CB, CCLNK_DC, CCLNK_AD}, domain DMLNKSEL.




This relation is resides in the National SS7 Global SM (as defined by the Glnat17sm office parameter) and/or in the International SS7 Global SM (as defined by the Glint17sm office parameter).

NOTE:
This relation is used by both the National and International versions of SS7. The Global SMs for these two versions must be separate, and any partitioned relations, like this one, must be populated independently on each GSM. This includes any index values retrieved from the RLindx relation that are used to populate this relation.

Every time a tuple is inserted or deleted to this relation the global parameter Gl_ss7sls should be updated accordingly.

**Attribute:**

lsnum

**Fullname:**

Link set number.

**Attribute Description:**

The number that uniquely identifies this link set.

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**Attribute:**
numcls
**Fullname:**
Number of combined link sets of which the link set is a member.
**Attribute Description:**
This attribute defines the number of combined link sets (CLSs) of which the link set is a member.

**Attribute:**
polindx
**Fullname:**
Policing index.
**Attribute Description:**
The policing index for this link set.

**Attribute:**
inh_protocol
**Fullname:**
Management Inhibit Protocol Specifier.
**Attribute Description:**
Specifies Management Inhibit protocol. DBYES means that management inhibit will follow Blue Book specifications and DBNO means that management inhibit will follow specifications existing prior to Blue Book.

**Attribute:**
apci
**Fullname:**
Adjacent point code index
**Attribute Description:**
The value of this attribute is the index of the APC to which this link set goes.

**Attribute:**
nlnks
**Fullname:**
Number of links.
**Attribute Description:**
This attribute defines the physical number of members (links) in this link set.

**Attribute:**
alnks
**Fullname:**
Active links;
**Attribute Description:**

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This attribute defines the number of active members (links) in this link set.

**Attribute:**
llnks
**Fullname:**
Loadsharing links.
**Attribute Description:**
This attribute defines the number of loadsharing members (links) in this link set.

**Attribute:**
oloterm
**Fullname:**
Other licensed operator termination.
**Attribute Description:**
Indicates if the link set terminates on an other licensed operator (OLO).

**Attribute:**
auto_alloc
**Fullname:**
Automatic Allocation.
**Attribute Description:**
This defines if the link set has Automatic Allocation of signaling data links or not.

**Attribute:**
sif_cap
**Fullname:**
signaling information field - capability information.
**Attribute Description:**
This attribute defines the method (referred to as the SL-Capability Method) used in determining the maximum size (referred to as the SL-Capability) of the Signaling Information Field (SIF) that can be transmitted/received across Members of a SS7 Link Set. The SL-Capability can be either 62 or 272 octets. If this attribute has the value CCLSSU then the SL-Capability is determined at Link Initialization.
If this attribute has the value CCDATA62 then the SL-Capability is set to 62 octets.
If this attribute has the value CCDATA272 then the SL-Capability is set to 272 octets.

**Attribute:**
internal
**Fullname:**
internal signaling links indicator field.

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**Attribute Description:**
This attribute indicates whether the signaling links which are members of this signaling linkset are internal or external.

**Attribute:**
lnk_sel
**Fullname:**
link selection indicator.
**Attribute Description:**
This attribute indicates the two adjacent bits in the SLS field chosen to be used for link selection in the linkset. The valid values are in the set { CCLNK_BA, CCLNK_CB, CCLNK_DC, CCLNK_AD}.

**Attribute:**
jtls_sel
**Fullname:**
Japan Application linkset selection
**Attribute Description:**
This attribute indicates the Linkset Selection for the Japan Application.

**Attribute:**
ilsdpol
**Fullname:**
Incoming Linkset/DPC Policing flag
**Attribute Description:**
This attribute will be used to indicate whether the linkset keyed by this tuple is be used in the ILS/DPC Policing feature. DBYES will be used to indicate the Linkset is participating in the policing. DBNO will indicate the linkset is not being policed. DBNO will be used as a default value.

**Attribute:**
acclsindx
**Fullname:**
MTP Accounting Linkset Index
**Attribute Description:**
This attribute will be used to store the index value of the MTP Accounting Linkset Index. This will also provide a forward mapping of the Linkset number to the value of the Accounting Linkset Index.

**Attribute:**
link_type
**Fullname:**
Linkset link type

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**Attribute Description:**

This attribute specifies the "type" of a linkset. The type can be 'A', 'E' or 'F'.

defines:

"db/DMlnkiset.h"

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# LS_LNK

## 1. Description

This relation consists of information on a particular link. The key to this relation is a link set and member.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 256 |
| expected number of tuples | 4 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCls_lnk |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ks key store or not | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
LS_LNK      relid = 2374  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


    lsnum       DMUNS8       (ushort: 8)       <--- key, not stored
    member      DMUNS4       (ushort: 4)       <--- key, not stored
    lnkgrp      DMUNS8       (ushort: 8)
 (a) lnkgrpmem  DMUNS4       (ushort: 4)
 (b) unittype   DMUNTTYPE    (enum: 2)
 (c) unitnum    DMUNS3       (ushort: 3)
 (d) master     DMBOOL       (enum: 1)
    dfinum      DMUNS5       (ushort: 5)
    sdl_sm      DMUNS8       (ushort: 8)
    st_dlt      DMPORT       (ushort)
    sdl_port    DMPORT       (ushort)
        User and Compacted Tuple Layout     LS_LNK
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |       |                                       |
 0 |     lsnum     | member|***************************************|
   |---------------+---------------+---------------+---------------|
   |               |       |   |   |     | |         |             |
 4 |     lnkgrp    |   a   | b |***|  c  |d|  dfinum |*************|
   |---------------+---------------+---------------+---------------|
   |               |               |                               |
 8 |     sdl_sm    |***************|             st_dlt            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |            sdl_port           |*******************************|
   |---------------+---------------+---------------+---------------|
      ( 16 bytes )


    lnkgrp      DMUNS8       (ushort: 8)
```

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```
 (a) lnkgrpmem   DMUNS4       (ushort: 4)
 (b) unittype    DMUNTTYPE    (enum: 2)
 (c) unitnum     DMUNS3       (ushort: 3)
 (d) master      DMBOOL       (enum: 1)
     dfinum      DMUNS5       (ushort: 5)
     sdl_sm      DMUNS8       (ushort: 8)
     st_dlt      DMPORT       (ushort)
     sdl_port    DMPORT       (ushort)
           Stored Tuple Layout   LS_LNK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |       |   |   |     | |         |             |
  0 |     lnkgrp    |   a   | b |***|  c  |d|  dfinum |*************|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  4 |     sdl_sm    |***************|             st_dlt            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            sdl_port           |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population rules for RLIs_lnk

### Relation Description

Link set link

This relation consists of information on a particular link. The purpose of this relation is to provide information on an individual link basis. The information consists of the link's SDL and ST ports, and the SM that the SDL port is found in.

**Attribute:**
lsnum
**Fullname:**
Link set number.
**Attribute Description:**
The number that uniquely identifies this link set.

**Attribute:**
member
**Fullname:**
Member number.
**Attribute Description:**
Link set member number.

**Attribute:**
lnkgrp

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**Fullname:**
Link group number.
**Attribute Description:**
This attribute defines the link group (LG) which is a pool of spare SDLs.

**Attribute:**
lnkgrpmem
**Fullname:**
Link group member number.
**Attribute Description:**
This attribute defines the link group member number. The link group and the link group member number determine the predefined SDL.

**Attribute:**
unittype
**Fullname:**
Hardware unit type of the SDL port.
**Attribute Description:**
This attribute defines the hardware unit type of the SDL port. The SDL port can be located on a DLTU(2) or DNU-S.

**Attribute:**
unitnum
**Fullname:**
Hardware unit number.
**Attribute Description:**
This attribute defines the hardware unit number of the Basic Allocation Signaling Data Link.

**Attribute:**
master
**Fullname:**
Internal SL master.
**Attribute Description:**
This attribute is the master SM indicator for an internal Signaling Link. The master SM for a given internal Signaling Link is the global SM with the greater Signaling Point Code.

**Attribute:**
dfinum
**Fullname:**
Digital Facility Interface number.
**Attribute Description:**
This attribute defines the Digital Facility Interface number of the Basic Allocation Signaling Data Link.

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**Attribute:**
st_dlt
**Fullname:**
Signaling terminating port data link terminating number.
**Attribute Description:**
This attribute is the Data Link Terminating number (DLT) which is assigned to the Signaling Terminating (ST) port of this link.

**Attribute:**
sdl_sm
**Fullname:**
Signaling data link port sm.
**Attribute Description:**
This attribute defines the SM where the Basic Allocation Signaling Data Link port resides.

**Attribute:**
sdl_port
**Fullname:**
Signaling data link port number.
**Attribute Description:**
This attribute is the Basic Allocation Signaling Data Link port number.

**Defines:**
"db/DMlnkiset.h"

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# LS_NETID

## 1. Description

This relation will indicate every network that might possibly be affected by a change in the status of a linkset. It is keyed by the linkset number, and has a bitmap with one bit for each possibly network ID (000-255, for ANSI). The bit for the network ID will be set if the linkset is part of the routeset for the network.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 256 |
| expected number of tuples | 4 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| relation type | DBSTATIC |
| distribution | FP |
| permutation type | un_perm |

## 3. Field Layout

```
LS_NETID    relid = 3139  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     lsnum       DMC7LS       (ushort: 8)       <--- key
 (a) rtes_exist  DMBOOL       (enum: 1)
     netid0      DMHEX32      (ulong)
     netid1      DMHEX32      (ulong)
     netid2      DMHEX32      (ulong)
     netid3      DMHEX32      (ulong)
     netid4      DMHEX32      (ulong)
     netid5      DMHEX32      (ulong)
     netid6      DMHEX32      (ulong)
     netid7      DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   LS_NETID
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                | |                                           |
  0 |     lsnum      |a|*******************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             netid0                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             netid1                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                             netid2                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                             netid3                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                             netid4                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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```
 24 |                             netid5                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 28 |                             netid6                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 32 |                             netid7                            |
    |---------------+---------------+---------------+---------------|
       ( 36 bytes )


domain alLS_NETID struct  (3 sub-attributes)
         lsnum       .1.fake      (ushort)
 (a)     rtes_exist  .0fake       (enum)
         netid       .2.fake      (array [ 8 ] of unsigned long )
                    Structure Layout    alLS_NETID
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                | |                                            |
  0 |     lsnum      |a|********************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             netid                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             netid                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                             netid                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                             netid                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                             netid                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 24 |                             netid                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 28 |                             netid                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 32 |                             netid                             |
    |---------------+---------------+---------------+---------------|
       ( 36 bytes )
```

## 4. Population rules for RLIs_netid

**Relation Description**

Link set to Network Identifier Index relation

This relation will indicate every network that might possibly
be affected by a change in the status of a linkset. It is
keyed by the linkset number, and has a bitmap with one
bit for each possible network ID (000-255, for ANSI).
The bit for the network ID will be set if the linkset is
part of the routeset for the network.

**Attribute:**
lsnum
**Fullname:**
Link Set Number
**Attribute Description:**
Link Set Number

**Attribute:**
rtes_exist
**Fullname:**
Flag to indicate whether any bits in the bitmaps are marked
**Attribute Description:**
Flag to indicate whether any bits are marked or not. (Since zero
might be a valid network ID in some future application, even though
it isn't used in the NAR market, we don't want to play the same
trick that was played in RLls_dpc and RLls_clust, and use the
zero bit of the bitmap as the indicator, which we could do safely
in those relations because the bits represent indexes (dpci or clix),
and we could ensure that zero was never a valid index.

/* Same for netid1 thru netid7 */

**Attribute:**
netid0
**Fullname:**
Bitmap
**Attribute Description:**
An array of eight 32-bit bitmaps that indicate which netid's can be
served by this link set.

**Defines:**
"ccs/CCc7_param.h",
"db/DBls_stat.h"

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# LS6_LNK

## 1. Description

This relation provides information on a link set, mapping its corresponding signaling links and possible bands used.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 64 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| padding indicator | unpadded |
| permutation type | un_perm |

## 3. Field Layout

```
LS6_LNK     relid = 2554  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     lsnum       DMUNS6       (ushort: 6)     <--- key
 (a) cntrl_off   DMBOOL       (enum: 1)
     dummy       DMUCHAR      (uchar)
     stph1       DMUCHAR      (uchar)
     stph2       DMUCHAR      (uchar)
     dltnum1     DMPORT       (ushort)
     dltnum2     DMPORT       (ushort)
     sdlport1    DMPORT       (ushort)
     sdlport2    DMPORT       (ushort)
     ls_band0    DMHEX32      (ulong)
     ls_band1    DMHEX32      (ulong)
     ls_band2    DMHEX32      (ulong)
     ls_band3    DMHEX32      (ulong)
     sdl_sm1     DMUCHAR      (uchar)
     sdl_sm2     DMUCHAR      (uchar)
     unum1       DMUNS3       (ushort: 3)
     unum2       DMUNS3       (ushort: 3)
 (b) srv_grp1    DMUNS1       (ushort: 1)
 (c) srv_grp2    DMUNS1       (ushort: 1)
        User, Compacted and Stored Tuple Layout    LS6_LNK
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |           | | |               |               |               |
 0 |   lsnum   |a|*|     dummy     |     stph1     |     stph2     |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |            dltnum1            |            dltnum2            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |            sdlport1           |            sdlport2           |
   |---------------+---------------+---------------+---------------|
```

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```
    |                                                                       |
 12 |                            ls_band0                                   |
    |--------------+---------------+---------------+---------------|
    |                                                                       |
 16 |                            ls_band1                                   |
    |--------------+---------------+---------------+---------------|
    |                                                                       |
 20 |                            ls_band2                                   |
    |--------------+---------------+---------------+---------------|
    |                                                                       |
 24 |                            ls_band3                                   |
    |--------------+---------------+---------------+---------------|
    |               |               |     |     | | |                     |
 28 |    sdl_sm1    |    sdl_sm2    |unum1|unum2|b|c|*********************|
    |--------------+---------------+---------------+---------------|
      ( 32 bytes )
domain alLS6_LNK   struct  (12 sub-attributes)
        lsnum       .5.fake      (ushort: 6)
  a)    cntrl_off   .0fake       (enum)
        dummy       unsigned char (uchar)
        stph        .6.fake      (array [ 2 ] of char )
        dltnum      .7.fake      (array [ 2 ] of unsigned short )
        sdlport     .8.fake      (array [ 2 ] of unsigned short )
        ls_band     .9.fake      (array [ 4 ] of unsigned long )
        sdl_sm      .10.fake     (array [ 2 ] of unsigned char )
        unum1       .11.fake     (ushort: 3)
        unum2       .12.fake     (ushort: 3)
  b)    srv_grp1    .13.fake     (ushort: 1)
  c)    srv_grp2    .14.fake     (ushort: 1)
        Structure Layout      alLS6_LNK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+---------------+---------------+---------------|
    |           | | |               |                               |
  0 |   lsnum   |a|*|     dummy     |              stph             |
    |--------------+---------------+---------------+---------------|
    |                                                                       |
  4 |                             dltnum                                    |
    |--------------+---------------+---------------+---------------|
    |                                                                       |
  8 |                            sdlport                                    |
    |--------------+---------------+---------------+---------------|
    |                                                                       |
 12 |                            ls_band                                    |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                       |
 16 |                            ls_band                                    |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                       |
 20 |                            ls_band                                    |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                       |
 24 |                            ls_band                                    |
    |--------------+---------------+---------------+---------------|
```

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```
    |                                |      |      | | |                |
 28 |             sdl_sm             |unum1|unum2|b|c|****************|
    |--------------+---------------+--------------+---------------|
       ( 32 bytes )
```

## 4. Population Rules for RLls6_lnk

**Relation Description**
Link set/link to its corresponding possible bands used.

This relation provides information about a link set: the links assigned to it, the signaling terminal's assigned DLT number, and the possible bands which could be associated with it, the unit number and service group for both sdl ports. This relation is used by CCITT Signaling System No. 6 Message Transfer Part.

**Attribute: lsnum**

**Fullname:** link set number.

**Attribute Description**Linkset number: assigned by the administration: represents a group of signaling links directly connecting two exchanges.

**Attribute: cntrl_off**

**Fullname:** Control office for the link set.

**Attribute Description** Indicates if office is the controlling office during emergency restart procedure. DBYES = controlling office. DBNO = non-controlling office. If an office is the controlling office for a link set, the ODD record at the far end office for this link set must be marked as the noncontrolling office.

**Attribute: dummy**

**Fullname:** dummy field.

**Attribute Description** Unused.

**Attribute: stph1**

**Fullname:** STPH of regular link in the link set.

**Attribute Description** ST-PH corresponding to the link set. This link is always used to carry traffic when the link is available. STPH number 96 indicates that this stph is unknown/NULL.

**Attribute: stph2**

**Fullname:** STPH of synchronized link in the link set.

**Attribute Description** ST-PH corresponding to the link set, used to carry traffic when the regular link is unavailable. STPH number 96 is NULL/unknown.

**Attribute: dltnum1**

**Fullname:** data link terminal number for regular link in the link set.

**Attribute Description** The data link terminating number assigned to the signaling terminating port of the stph1.

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**Attribute: dltnum2**

**Fullname:** data link terminal number for the synchronized reserve link in the link set.

**Attribute Description** The data link terminating number assigned to the signaling terminating port of the stph2.

**Attribute: sdl_sm1**

**Fullname:** The SM number where signaling dataport number associated with regular link terminates.

**Attribute Description** Populate with the SM where the signaling port link associated with regular link terminates.

**Attribute: sdl_sm2**

**Fullname:** signaling data port number for the synchronized reserve link.

**Attribute Description** Populate with the SM where the signaling port link associated with the synchronized reserve link terminates.

**Attribute: sdlport1**

**Fullname:** Signaling data port number associated with circuitry associated with the regular link in the link set.

**Attribute Description** Signaling data port number associated with circuitry associated with the regular link in the link set.

**Attribute: sdlport2**

**Fullname:** Signaling data port number associated with circuitry associated with the synchronized reserve link in the link set.

**Attribute Description** Signaling data port number associated with circuitry associated with the synchronized reserve link in the link set.

**Attribute: ls_band[*]**

**Fullname:** set of outgoing bands that could have traffic on the link set.

**Attribute Description** These attributes indicate which bands are served by this link set. The attributes make up a 128-bit map. A bit is set to 0 if that band is not served by the link set and 1 if it can be served by that link set. The bits are numbered 0 to 127 starting with the lower order bits in ascending order. ls_band0 represents bit 0 thru bit 31. Since the link set will not server any bands when it is created, populate values in ls_band0, ls_band1, ls_band2, and ls_band3 to 0.

The following is the layout of ls_ban0 - ls_band3

```
field           ls_band0
band  31       23       15       7        0
      |--------|--------|--------|--------|
bits  31       23       15       7        0
field           ls_band1
band  63       55       47       39       32
      |--------|--------|--------|---------|
```

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```
bits  31       23       15       7         0
field           ls_band2
band  95       87       79       71       64
      |--------|--------|--------|---------|
bits  31       23       15       7         0
field           ls_band3
band  127      119      111      103      96
      |--------|--------|--------|---------|
bits  31       23       15       7         0
```

**Attribute: unum1**

**Fullname:** Unit number of first SDL port.

**Attribute Description** This attribute defines the hardware unit number of the first SDL port.

**Attribute: unum2**

**Fullname:** Unit number of second SDL port.

**Attribute Description** This attribute defines the hardware unit number of the second SDL port.

**Attribute: srv_grp1**

**Fullname:** Service group number for first signaling data link.

**Attribute Description** This attribute defines the service group number for the first Signaling data link (SDL).

**Attribute: srv_grp2**

**Fullname:** Service group number for the second signaling data link.

**Attribute Description**This attribute defines the service group number of the second signaling data link.

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# LSB_LSB

## 1. Description

This relation provides information on a linkset/band - mapping its corresponding links (primary, 1st reserve, 2nd reserve). This relation will be used by CCITT6 outgoing routing for locally originating and STP messages.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 512 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| padding indicator | unpadded |
| permutation type | un_perm |

## 3. Field Layout

```
LSB_LSB     relid = 2530  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     ls_band     DMUSHORT     (ushort)     <--- key
     lsbindx     DMUNS9       (ushort: 9)
 (a) msgtype     DMMSG6TYPE   (enum: 1)
     quasi       DMUNS3       (ushort: 3)
     altlsb1     DMUSHORT     (ushort)
     altlsb2     DMUSHORT     (ushort)
     altlsb3     DMUSHORT     (ushort)
         User, Compacted and Stored Tuple Layout    LSB_LSB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                 | |     |     |
  0 |            ls_band            |     lsbindx     |a|quasi|*****|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            altlsb1            |            altlsb2            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            altlsb3            |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
domain alLSB_LSB   struct  (5 sub-attributes)
         ls_band     unsigned short (ushort)
         lsbindx     .2.fake      (ushort: 9)
 (a)     msgtype     .0fake       (enum)
         quasi       .3.fake      (ushort: 3)
         altlsb      .4.fake      (array [ 3 ] of unsigned short )

         Structure Layout      alLSB_LSB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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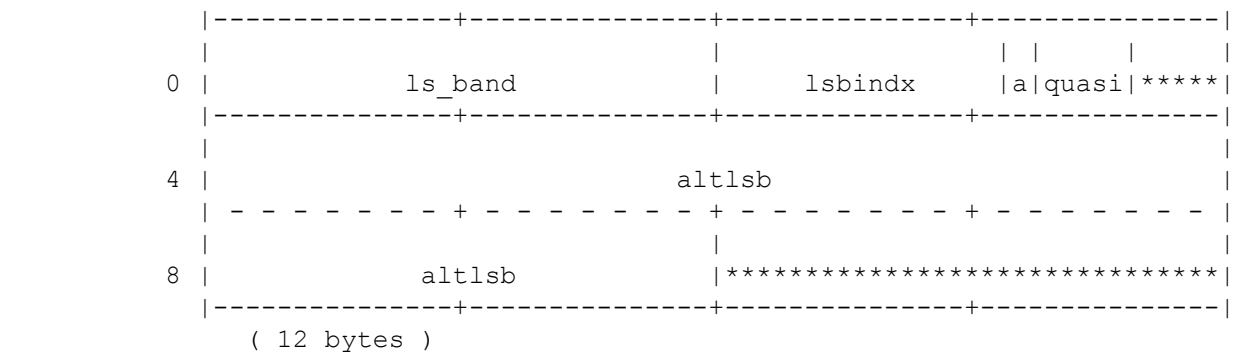


## 4. Population Rules for RLlsb_lsb

**Relation Description**
Mapping from routeset id to the routes.

This relation provides information on a routeset. It maps from a routeset id(that is, ls_band) to corresponding routes (primary, first alternate, second alternate). This relation is used by CCITT6 outgoing routing for locally originating and STP messages.

For every link set defined in this relation there must be a tuple in the RLls6_lnk relation. The corresponding bands must be set (ls_band_0[0-3]) to 1.

**Attribute: ls_band**

**Fullname:** link set/band.

**Attribute Description** Represents the link set and band assigned by the network administration: The lower order 7 bits(ls_band[0-6]) represent the band (range of 0 -127) the next 6 bits(ls_band[7-12]) the link set(range of 1 - 63).

**Attribute: lsbindx**

**Fullname:** Index for link set/band route set.

**Attribute Description** Index for link set/band route set.

**Attribute: msgtype**

**Fullname:** type of message being sent out : STP or locally originating.

**Attribute Description** Indicator of type of message being sent out: STP or locally originating.

**Attribute: quasi**

**Fullname:** Indicator of quasi-associated.

**Attribute Description** This field indicate whether outgoing routes are quasi-associated or not. 1 = quasi-associated. 0 = not quasi-associated. This 3 bit field, [-2-|-1-|-0-] (0 bit is right most bit), represent 3 routes. Bit 0 represents the primary route, bit 1 the first alternate route, and bit 2 the second alternate route. Currently, this field is not used.

**Attribute: altlsb1**

**Fullname:** primary link set/band.

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**Attribute Description**Primary link set/band.

**Attribute: altlsb2**

**Fullname:** First alternate link set/band.

**Attribute Description** First alternate link set/band.

**Attribute: altlsb3**

**Fullname:** second alternate link set/band.

**Attribute Description** Second alternate link set/band.

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# LSF_CF

## 1. Description

Lass Selective Feature Constructed Feature (LSF_CF) in Modular Feature Customization (MFC) capability.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 64 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFR |
| relation type | DBSTATIC |
| head page size | 1024 |
| data page size | 256 |
| page level | 2 |
| ks key store | DBNO |

## 3. Field Layout

```
LSF_CF      relid = 1296  DBSTATIC   DBACC_CIND  DBPRAM    LRFR    NULL
     feat_id     DMMCC_FID    (ushort)  <--- key, not stored
 (a) ama_rec     DMBOOL       (enum: 1)
 (b) car         DMBOOL       (enum: 1)
 (c) harsh       DMBOOL       (enum: 1)
 (d) bs_rg_ind   DMBOOL       (enum: 1)
         User and Compacted Tuple Layout     LSF_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            feat_id            |*******************************|
    |---------------+---------------+---------------+---------------|
    | | | | |                                                       |
  4 |a|b|c|d|*******************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
 (a) ama_rec     DMBOOL       (enum: 1)
 (b) car         DMBOOL       (enum: 1)
 (c) harsh       DMBOOL       (enum: 1)
 (d) bs_rg_ind   DMBOOL       (enum: 1)
           Stored Tuple Layout   LSF_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | | | | |                                                       |
  0 |a|b|c|d|*******************************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLlsf_cf

**Relation Description**
This is the constructed feature (CF) relation for the four modular local area signaling services (LASS) features offered in the 5E6 generic.

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This is the combined _CF relation for four 5E6 LASS modular features: SCA/CAR, SCF, SCR and SDA. This relation is also used in the AM in place of _OPTS relation

```
PRE-CONSTRUCTED FEATURES:
-------------------------
 NAME:  /SCAGA   SCA General Available Feature
ama_rec    :  DBYES
car        :  DBNO
harsh      :  DBNO
bs_rg_ind  :  DBNO

NAME:  /SCAFR   SCA Feature with flat rate billing
ama_rec    :  DBNO
car        :  DBNO
harsh      :  DBNO
bs_rg_ind  :  DBNO

NAME:  /SA*     SCA/CAR Wildcard Feature
ama_rec    :  DBYES
car        :  DBNO
harsh      :  DBNO
bs_rg_ind  :  DBNO

NAME:  /CARUS   CAR Feature with usage sensitive billing
ama_rec    :  DBYES
car        :  DBYES
harsh      :  DBNO
bs_rg_ind  :  DBNO

NAME:  /CARFR   CAR Feature with flat rate billing
ama_rec    :  DBNO
car        :  DBYES
harsh      :  DBNO
bs_rg_ind  :  DBNO

NAME:  /SCFGA   SCF General Available Feature
ama_rec    :  DBYES
car        :  DBNO
harsh      :  DBNO
bs_rg_ind  :  DBYES

NAME:  /SCFFR   SCF Feature with flat rate billing
ama_rec    :  DBNO
car        :  DBNO
harsh      :  DBNO
bs_rg_ind  :  DBNO

NAME:  /SCFFRR  SCF Feature with flat rate billing and ringing
ama_rec    :  DBNO
car        :  DBNO
harsh      :  DBNO
bs_rg_ind  :  DBYES

NAME:  /SCFUS   SCF Feature with usage sensitive billing
ama_rec    :  DBYES
```

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```
car         :  DBNO
harsh       :  DBNO
bs_rg_ind   :  DBNO

NAME:  /SF*     SCF Wildcard Feature
ama_rec     :  DBYES
car         :  DBNO
harsh       :  DBNO
bs_rg_ind   :  DBYES

NAME:  /SCRGA   SCR General Available Feature with gentle announcement
ama_rec     :  DBYES
car         :  DBNO
harsh       :  DBNO
bs_rg_ind   :  DBNO

NAME:  /SCRFRG  SCR Feature with flat rate billing and gentle announcement
ama_rec     :  DBNO
car         :  DBNO
harsh       :  DBNO
bs_rg_ind   :  DBNO

NAME:  /SCRFRH  SCR Feature with flat rate billing and harsh announcement
ama_rec     :  DBNO
car         :  DBNO
harsh       :  DBYES
bs_rg_ind   :  DBNO

NAME:  /SCRUSH  SCR Feature with usage sensative billing and harsh announcement
ama_rec     :  DBYES
car         :  DBNO
harsh       :  DBYES
bs_rg_ind   :  DBNO

NAME:  /SJ*     SCR Wildcard Feature
ama_rec     :  DBYES
car         :  DBNO
harsh       :  DBNO
bs_rg_ind   :  DBNO

NAME:  /SDAGA   SDA  General Available Feature
ama_rec     :  DBYES
car         :  DBNO
harsh       :  DBNO
bs_rg_ind   :  DBNO

NAME:  /SDAFR   SDA Feature with flat rate billing
ama_rec     :  DBNO
car         :  DBNO
harsh       :  DBNO
bs_rg_ind   :  DBNO

NAME:  /SD*     SDA Wildcard Feature
ama_rec     :  DBYES
```

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```
car         :  DBNO
harsh       :  DBNO
bs_rg_ind   :  DBNO
```

**Attribute: feat_id**

**Fullname:** LASS constructed feature ID

**Attribute Description**

This field is used for constructed feature IDs for 5E6 LASS features (SCA/CAR, SCF, SCR, SDA) High 6 bits of the feat_id reflect the modular feature type.

| Modular Feature Type | ENUM | 6 BITS |
|---|---|---|
| MFSCA for SCA/CAR | 32 | 100000 |
| MFSCF for SCF | 33 | 100001 |
| MFSCR for SCR | 34 | 100010 |
| MFSDA for SDA | 35 | 100011 |

The unique identifier (lower 10 bits of the feat_id) ranges from 1 to 1023 (excluding 0). Therefore, the valid values for each feature is:

| Modular Feature | Range of feat_id |
|---|---|
| MFSCA | (0x8001, 0x83ff) |
| MFSCF | (0x8401, 0x87ff) |
| MFSCR | (0x8801, 0x8bff) |
| MFSDA | (0x8c01, 0x8fff) |

Both RLfacname and RLfid2name relations should have corresponding entires.

**Attribute: ama_rec**

**Fullname:** AMA record

**Attribute Description** DBYES in this field indicates that the billing is usage sensitive. DBNO for flat rate.

**Attribute: car**

**Fullname:** Computer Access Restriction

**Attribute Description** The computer access restriction (CAR) is offered as a part of 5E6 LASS Selective Call Acceptance (SCA) feature without a separate modular feature type. This field is used to indicate whether the current constructed feature is for the CAR or not. To construct a CAR feature, set this field to DBYES and modular feature type to SCA. For other features, this field must be to set to DBNO.

**Attribute: harsh**

**Fullname:** Harsh or Gentle rejection announcement

**Attribute Description** This field is used by the 5E6 LASS selective call rejection (SCR) feature in order to indicate whether a harsh announcement will be given to the rejected calling party. This field does not have any meaning to other constructed features.

**Attribute: bs_rg_ind**

**Fullname:** Base Station Reminder Ringing (Ping Ring) indicator

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**Attribute Description** This field indicates whether the base station reminder ringing (ping ring) will be given or not when a call is forwarded. This field must be DBNO except for SCF features.

```
DEFAULTS:  DBYES for SCF
           otherwise DBNO
```

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# LSFHCA

## 1. Description

Multi-line hunt group SCA list for LASS.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 350 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 512 |
| data page size | 2048 |
| page level | 0 |
| corcable | DBYES |
| permutation type | unperm |
| optimize | DBYES |

## 3. Field Layout

```
LSFHCA      relid = 1297  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     grpnum      DMGRPNUM     (ushort)  <--- key
     dn_bits     DMULONG      (ulong)
     dn1         DMBCD_BDN    (array [ 6 ] of char )
     dn2         DMBCD_BDN    (array [ 6 ] of char )
     dn3         DMBCD_BDN    (array [ 6 ] of char )
     dn4         DMBCD_BDN    (array [ 6 ] of char )
     dn5         DMBCD_BDN    (array [ 6 ] of char )
     dn6         DMBCD_BDN    (array [ 6 ] of char )
     dn7         DMBCD_BDN    (array [ 6 ] of char )
     dn8         DMBCD_BDN    (array [ 6 ] of char )
     dn9         DMBCD_BDN    (array [ 6 ] of char )
     dn10        DMBCD_BDN    (array [ 6 ] of char )
     dn11        DMBCD_BDN    (array [ 6 ] of char )
     dn12        DMBCD_BDN    (array [ 6 ] of char )
     dn13        DMBCD_BDN    (array [ 6 ] of char )
     dn14        DMBCD_BDN    (array [ 6 ] of char )
     dn15        DMBCD_BDN    (array [ 6 ] of char )
     dn16        DMBCD_BDN    (array [ 6 ] of char )
     dn17        DMBCD_BDN    (array [ 6 ] of char )
     dn18        DMBCD_BDN    (array [ 6 ] of char )
     dn19        DMBCD_BDN    (array [ 6 ] of char )
     dn20        DMBCD_BDN    (array [ 6 ] of char )
     dn21        DMBCD_BDN    (array [ 6 ] of char )
     dn22        DMBCD_BDN    (array [ 6 ] of char )
     dn23        DMBCD_BDN    (array [ 6 ] of char )
     dn24        DMBCD_BDN    (array [ 6 ] of char )
     dn25        DMBCD_BDN    (array [ 6 ] of char )
     dn26        DMBCD_BDN    (array [ 6 ] of char )
     dn27        DMBCD_BDN    (array [ 6 ] of char )
     dn28        DMBCD_BDN    (array [ 6 ] of char )
     dn29        DMBCD_BDN    (array [ 6 ] of char )
     dn30        DMBCD_BDN    (array [ 6 ] of char )
     dn31        DMBCD_BDN    (array [ 6 ] of char )
```

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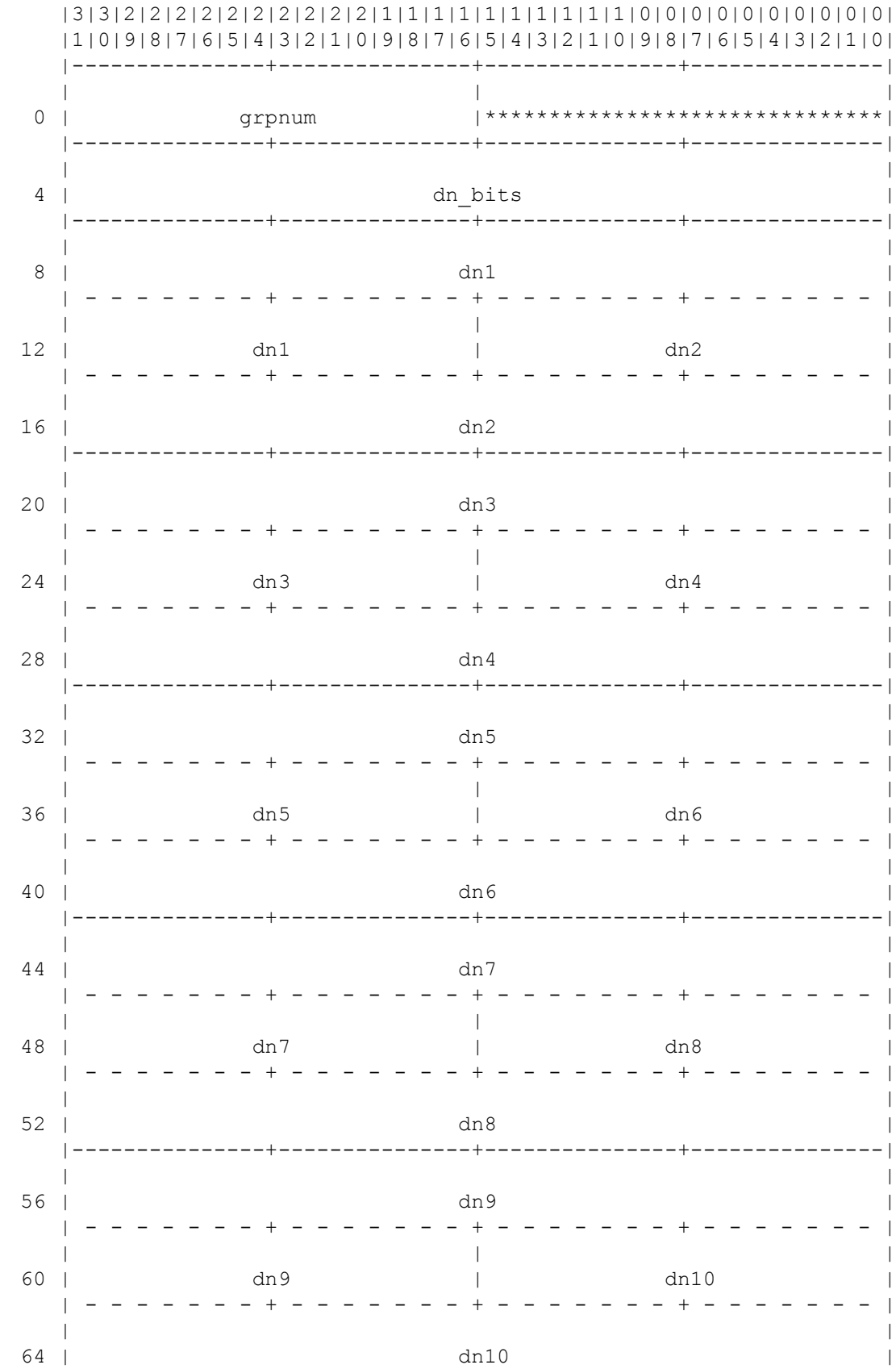
User, Compacted and Stored Tuple Layout LSFHCA

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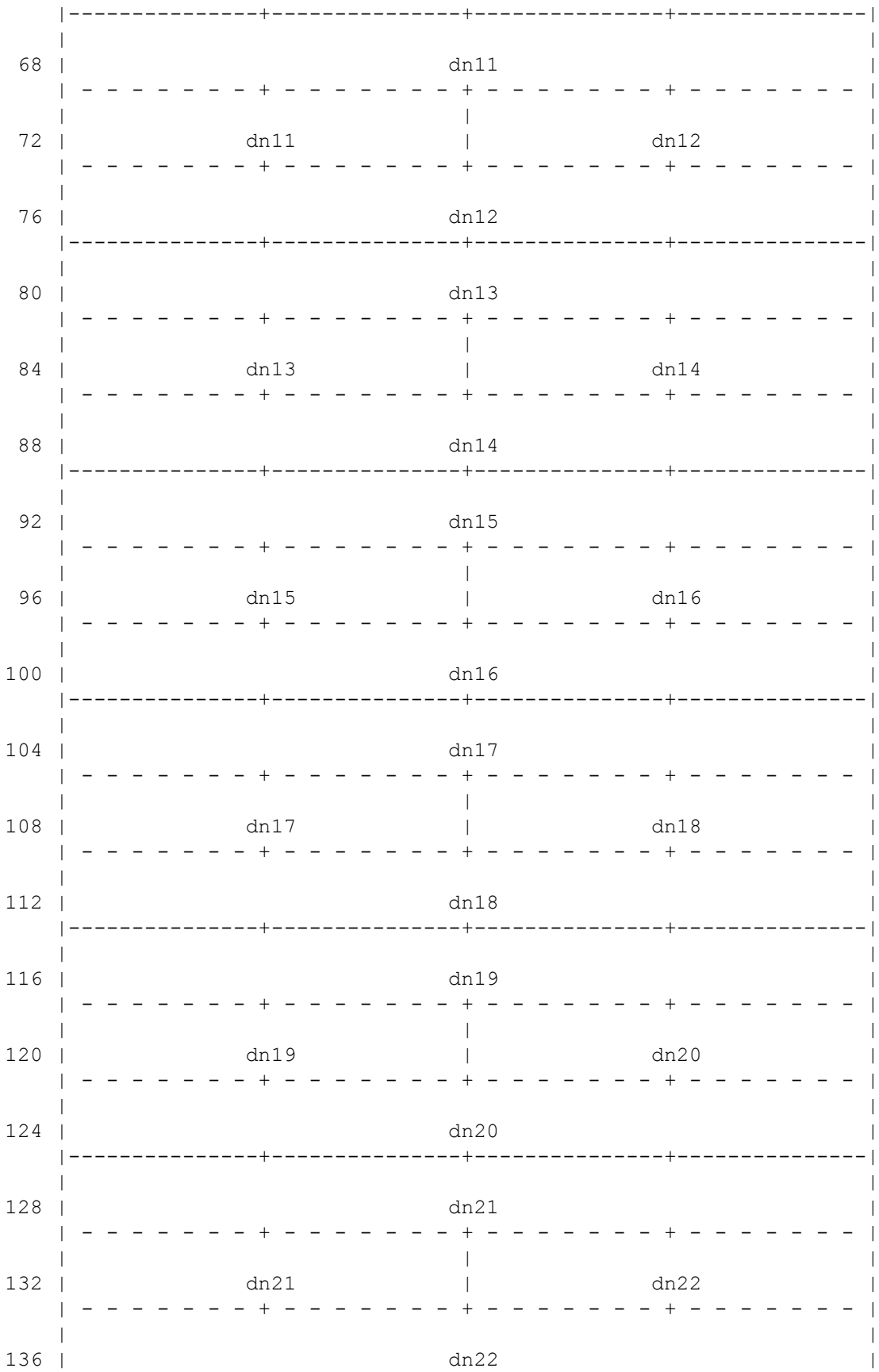


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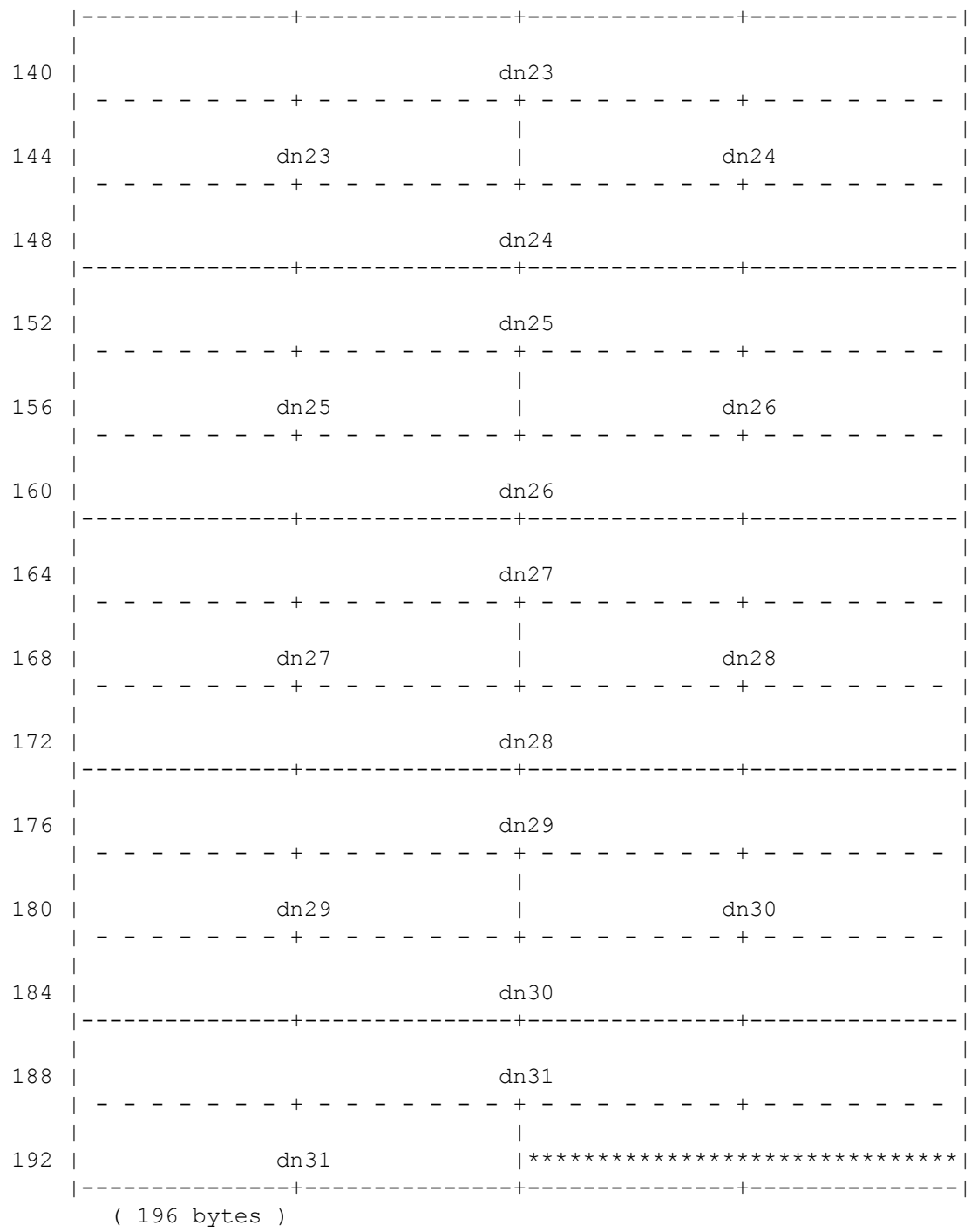


( 196 bytes )

## 4. Population Rules for RLlsfhca

**Relation Description**
LASS Selective Call Acceptance Screen List for Multi-Line Hunt Group.

This is a SCA screen list.
The screen list (LSFHCA) for the multi-line hunt group (MLHG) is copied from member one's individual screen list (LSFSCA). However, LSFHCA contains DNs only. All DNs in LSFHCA must match with the DNs in LSFSCA of the member 1.

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**Attribute: grpnum**

**Fullname:** Group Number

**Attribute Description** This is a logical key.

**Attribute: dn_bits**

**Fullname:** DN bits

**Attribute Description** Each bit field indicates whether an associated DN is occupied. 0 in the bit field indicates the corresponding DN is empty.

**Attribute: dn1**

**Fullname:** First DN entry of the screening list for this MLHG.

**Attribute Description**Each element of this array consists of two BCD digits of the first DN. Digit count is stored in the last byte.

Example: A DN, 312-979-1234 is stored as

```
dn1[0] = 0x31
dn1[1] = 0x29
dn1[2] = 0x79
dn1[3] = 0x12
dn1[4] = 0x34
dn1[5] = 0x0a (digit count)
```

No extension number can be stored for MLHG.

**Attribute: dn2**

**Fullname:** The second DN stored

**Attribute Description** See dn1.

**Attribute: dn3**

**Fullname:** The third DN stored

**Attribute Description** See dn1.

**Attribute: dn4**

**Fullname:** The fourth DN stored

**Attribute Description** See dn1.

**Attribute: dn5**

**Fullname:** The fifth DN stored

**Attribute Description** See dn1.

**Attribute: dn6**

**Fullname:** The sixth DN stored

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**Attribute Description** See dn1.

**Attribute: dn7**

**Fullname:** The seventh DN stored

**Attribute Description** See dn1.

**Attribute: dn8**

**Fullname:** The eighth DN stored

**Attribute Description** See dn1.

**Attribute: dn9**

**Fullname:** The ninth DN stored

**Attribute Description** See dn1.

**Attribute: dn10**

**Fullname:** The tenth DN stored

**Attribute Description**See dn1.

**Attribute: dn11**

**Fullname:** The eleventh DN stored

**Attribute Description** See dn1.

**Attribute: dn12**

**Fullname:** The twelfth DN stored.

**Attribute Description** See dn1.

**Attribute: dn13**

**Fullname:** The thirteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn14**

**Fullname:** The fourteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn15**

**Fullname:** The fifteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn16**

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**Fullname:** The sixteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn17**

**Fullname:** The seventeenth DN stored

**Attribute Description** See dn1.

**Attribute: dn18**

**Fullname:** The eighteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn19**

**Fullname:** The nineteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn20**

**Fullname:** The twentieth DN stored

**Attribute Description** See dn1.

**Attribute: dn21**

**Fullname:** The twenty first DNstored

**Attribute Description** See dn1.

**Attribute: dn22**

**Fullname:** The twenty second DN stored

**Attribute Description** See dn1.

**Attribute: dn23**

**Fullname:** The twenty third DN stored

**Attribute Description** See dn1.

**Attribute: dn24**

**Fullname:** The twenty fourth DN stored

**Attribute Description** See dn1.

**Attribute: dn25**

**Fullname:** The twenty fifth DN stored

**Attribute Description** See dn1.

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**Attribute: dn26**

**Fullname:** The twenty sixth DN stored

**Attribute Description** See dn1.

**Attribute: dn27**

**Fullname:** The twenty seventh DN stored

**Attribute Description** See dn1.

**Attribute: dn28**

**Fullname:** The twenty eighth DN stored

**Attribute Description** See dn1.

**Attribute: dn29**

**Fullname:** The twenty ninth DN stored

**Attribute Description**See dn1.

**Attribute: dn30**

**Fullname:** The thirtieth DN stored

**Attribute Description** See dn1.

**Attribute: dn31**

**Fullname:** The thirty first DN stored

**Attribute Description** See dn1.

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# LSFHCF

## 1. Description

Multi-line hunt group SCF list for LASS.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 350 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 512 |
| data page size | 2048 |
| page level | 0 |
| corcable | DBYES |
| permutation type | unperm |
| optimize | DBYES |

## 3. Field Layout

```
LSFHCF      relid = 1298  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     grpnum      DMGRPNUM     (ushort)  <--- key
     dn_bits     DMULONG      (ulong)
     dn1         DMBCD_BDN    (array [ 6 ] of char )
     dn2         DMBCD_BDN    (array [ 6 ] of char )
     dn3         DMBCD_BDN    (array [ 6 ] of char )
     dn4         DMBCD_BDN    (array [ 6 ] of char )
     dn5         DMBCD_BDN    (array [ 6 ] of char )
     dn6         DMBCD_BDN    (array [ 6 ] of char )
     dn7         DMBCD_BDN    (array [ 6 ] of char )
     dn8         DMBCD_BDN    (array [ 6 ] of char )
     dn9         DMBCD_BDN    (array [ 6 ] of char )
     dn10        DMBCD_BDN    (array [ 6 ] of char )
     dn11        DMBCD_BDN    (array [ 6 ] of char )
     dn12        DMBCD_BDN    (array [ 6 ] of char )
     dn13        DMBCD_BDN    (array [ 6 ] of char )
     dn14        DMBCD_BDN    (array [ 6 ] of char )
     dn15        DMBCD_BDN    (array [ 6 ] of char )
     dn16        DMBCD_BDN    (array [ 6 ] of char )
     dn17        DMBCD_BDN    (array [ 6 ] of char )
     dn18        DMBCD_BDN    (array [ 6 ] of char )
     dn19        DMBCD_BDN    (array [ 6 ] of char )
     dn20        DMBCD_BDN    (array [ 6 ] of char )
     dn21        DMBCD_BDN    (array [ 6 ] of char )
     dn22        DMBCD_BDN    (array [ 6 ] of char )
     dn23        DMBCD_BDN    (array [ 6 ] of char )
     dn24        DMBCD_BDN    (array [ 6 ] of char )
     dn25        DMBCD_BDN    (array [ 6 ] of char )
     dn26        DMBCD_BDN    (array [ 6 ] of char )
     dn27        DMBCD_BDN    (array [ 6 ] of char )
     dn28        DMBCD_BDN    (array [ 6 ] of char )
     dn29        DMBCD_BDN    (array [ 6 ] of char )
     dn30        DMBCD_BDN    (array [ 6 ] of char )
     dn31        DMBCD_BDN    (array [ 6 ] of char )
```

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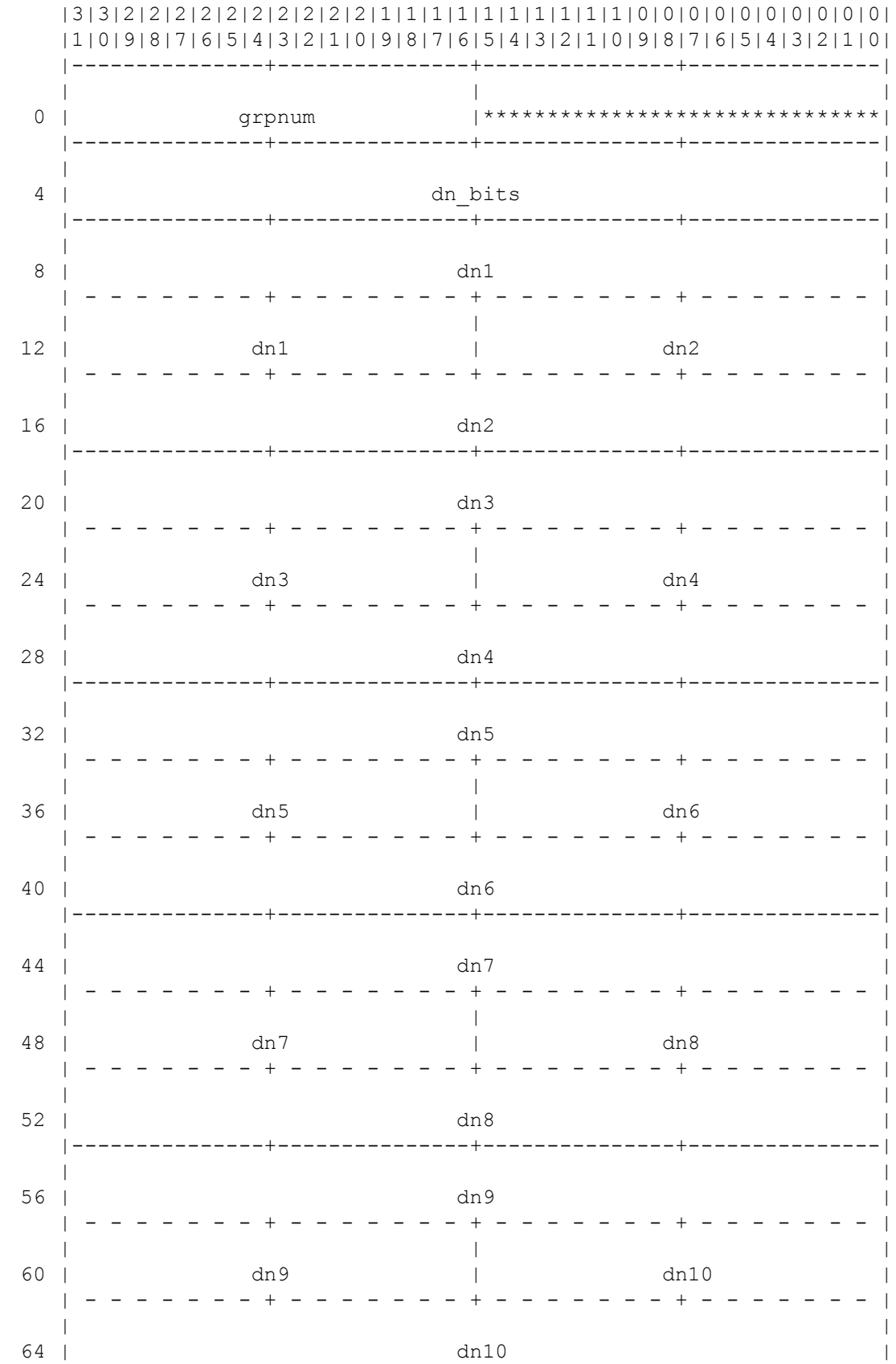
User, Compacted and Stored Tuple Layout LSFHCF

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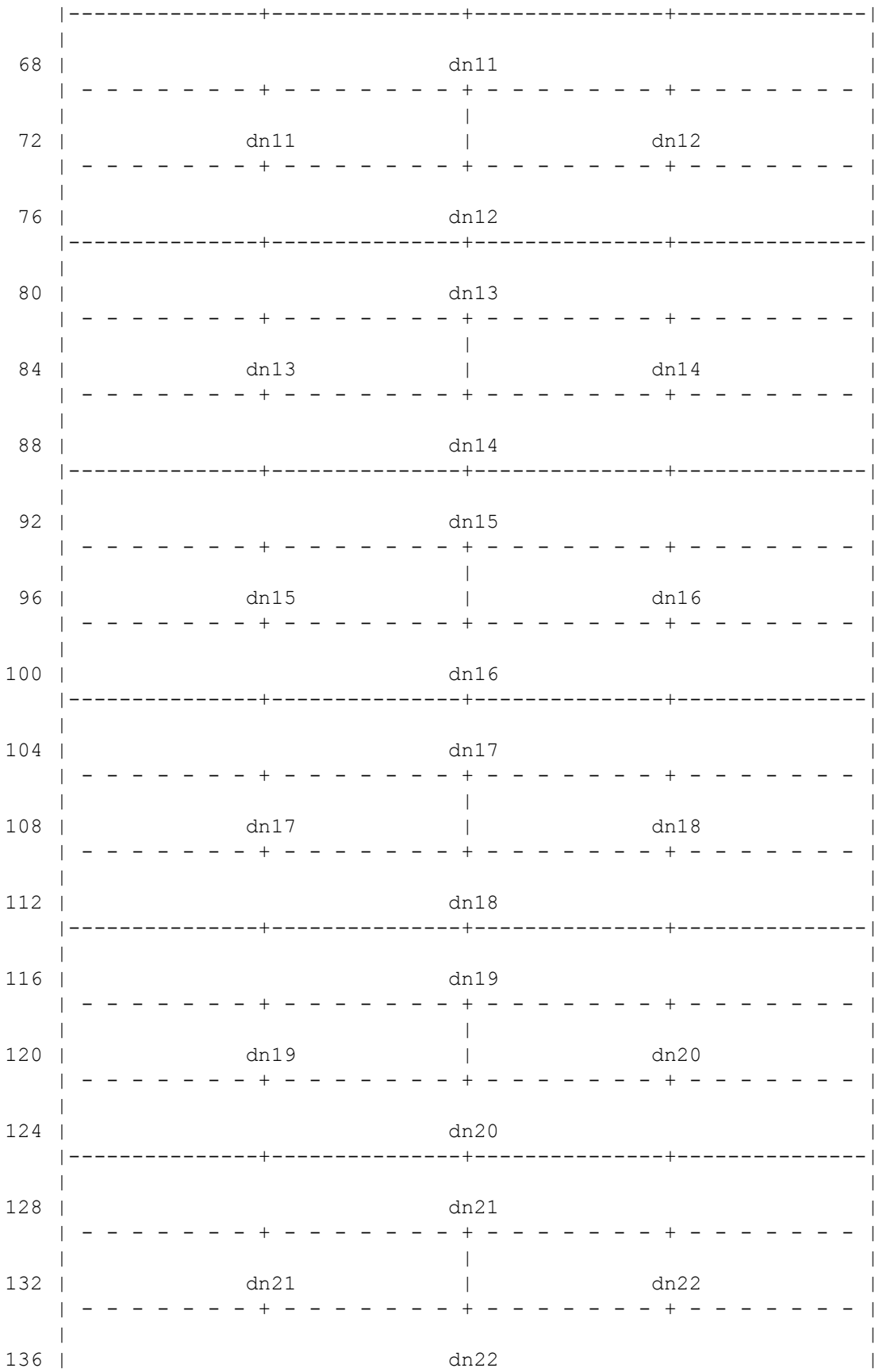


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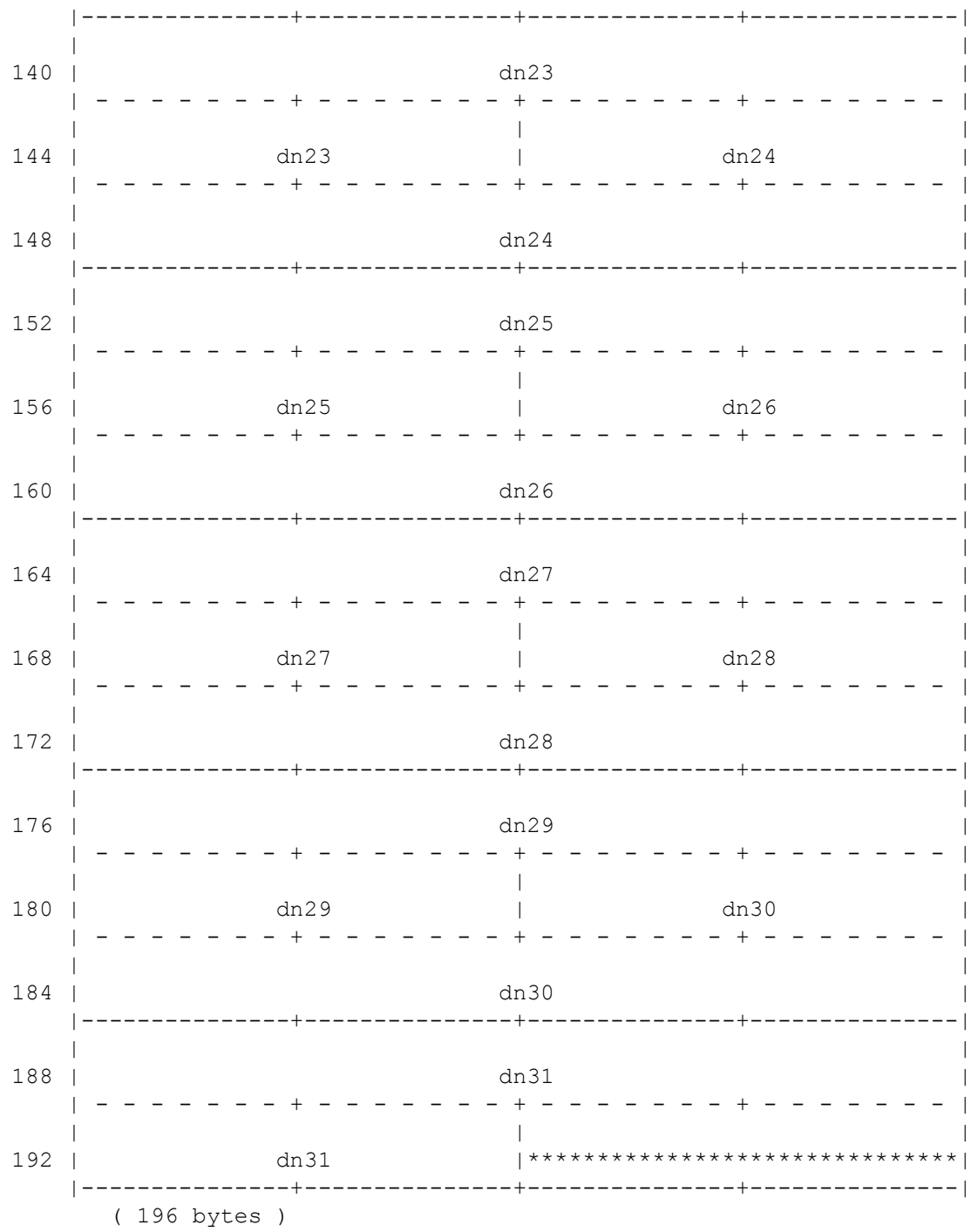


( 196 bytes )

## 4. Population Rules for RLlsfhcf

**Relation Description**
LASS Selective Call Forwarding Screen List for Multi-Line Hunt Group.

This is a SCF screen list.

The screen list (LSFHCF) for the multi-line hunt group (MLHG) is copied from member one's individual screen list (LSFSCF). However, LSFHCF contains DNs only. All DNs in LSFHCF must match with the DNs in LSFSCF of the

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member 1.

**Attribute: grpnum**

**Fullname:** Group Number

**Attribute Description** This is a logical key.

**Attribute: dn_bits**

**Fullname:** DN bits

**Attribute Description** Each bit field indicates whether an associated DN is occupied. 0 in this bit field indicates the corresponding DN is empty.

**Attribute: dn1**

**Fullname:** First DN stored in 5 characters

**Attribute Description** Each element of this array consists of two BCD digits of the first DN. Digit count is stored in the last byte. Example: A DN, 312-979-1234 is stored as

```
dn1[0] = 0x31
dn1[1] = 0x29
dn1[2] = 0x79
dn1[3] = 0x12
dn1[4] = 0x34
dn1[5] = 0x0a (digit count)
```

**Attribute: dn2**

**Fullname:** The second DN stored

**Attribute Description** See dn1.

**Attribute: dn3**

**Fullname:** The third DN stored

**Attribute Description** See dn1.

**Attribute: dn4**

**Fullname:** The fourth DN stored

**Attribute Description** See dn1.

**Attribute: dn5**

**Fullname:** The fifth DN stored

**Attribute Description** See dn1.

**Attribute: dn6**

**Fullname:** The sixth DN stored

**Attribute Description** See dn1.

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**Attribute: dn7**

**Fullname:** The seventh DN stored

**Attribute Description** See dn1.

**Attribute: dn8**

**Fullname:** The eighth DN stored

**Attribute Description** See dn1.

**Attribute: dn9**

**Fullname:** The ninth DN stored.

**Attribute Description** See dn1.

**Attribute: dn10**

**Fullname:** The tenth DN stored

**Attribute Description** See dn1.

**Attribute: dn11**

**Fullname:** The eleventh DN stored

**Attribute Description** See dn1.

**Attribute: dn12**

**Fullname:** The twelfth DN stored

**Attribute Description** See dn1.

**Attribute: dn13**

**Fullname:** The thirteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn14**

**Fullname:** The fourteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn15**

**Fullname:** The fifteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn16**

**Fullname:** The sixteenth DN stored

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**Attribute Description** See dn1.

**Attribute: dn17**

**Fullname:** The seventeenth DN stored

**Attribute Description** See dn1.

**Attribute: dn18**

**Fullname:** The eighteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn19**

**Fullname:** The nineteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn20**

**Fullname:** The twentieth DN stored

**Attribute Description** See dn1.

**Attribute: dn21**

**Fullname:** The twenty first DNstored

**Attribute Description** See dn1.

**Attribute: dn22**

**Fullname:** The twenty second DN stored

**Attribute Description** See dn1.

**Attribute: dn23**

**Fullname:** The twenty third DN stored

**Attribute Description** See dn1.

**Attribute: dn24**

**Fullname:** The twenty fourth DN stored

**Attribute Description** See dn1.

**Attribute: dn25**

**Fullname:** The twenty fifth DN stored

**Attribute Description** See dn1.

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**Attribute: dn26**

**Fullname:** The twenty sixth DN stored

**Attribute Description** See dn1.

**Attribute: dn27**

**Fullname:** The twenty seventh DN stored

**Attribute Description** See dn1.

**Attribute: dn28**

**Fullname:** The twenty eighth DN stored

**Attribute Description** See dn1.

**Attribute: dn29**

**Fullname:** The twenty ninth DN stored

**Attribute Description** See dn1.

**Attribute: dn30**

**Fullname:** The thirtieth DN stored

**Attribute Description** See dn1.

**Attribute: dn31**

**Fullname:** The thirty first DN stored

**Attribute Description** See dn1.

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# LSFHCR

## 1. Description

Multi-line hunt group SCR list for LASS.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 350 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 512 |
| data page size | 2048 |
| page level | 0 |
| corcable | DBYES |
| permutation type | unperm |
| optimize | DBYES |

## 3. Field Layout

```
LSFHCR      relid = 1299  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     grpnum      DMGRPNUM     (ushort)  <--- key
     dn_bits     DMULONG      (ulong)
     dn1         DMBCD_BDN    (array [ 6 ] of char )
     dn2         DMBCD_BDN    (array [ 6 ] of char )
     dn3         DMBCD_BDN    (array [ 6 ] of char )
     dn4         DMBCD_BDN    (array [ 6 ] of char )
     dn5         DMBCD_BDN    (array [ 6 ] of char )
     dn6         DMBCD_BDN    (array [ 6 ] of char )
     dn7         DMBCD_BDN    (array [ 6 ] of char )
     dn8         DMBCD_BDN    (array [ 6 ] of char )
     dn9         DMBCD_BDN    (array [ 6 ] of char )
     dn10        DMBCD_BDN    (array [ 6 ] of char )
     dn11        DMBCD_BDN    (array [ 6 ] of char )
     dn12        DMBCD_BDN    (array [ 6 ] of char )
     dn13        DMBCD_BDN    (array [ 6 ] of char )
     dn14        DMBCD_BDN    (array [ 6 ] of char )
     dn15        DMBCD_BDN    (array [ 6 ] of char )
     dn16        DMBCD_BDN    (array [ 6 ] of char )
     dn17        DMBCD_BDN    (array [ 6 ] of char )
     dn18        DMBCD_BDN    (array [ 6 ] of char )
     dn19        DMBCD_BDN    (array [ 6 ] of char )
     dn20        DMBCD_BDN    (array [ 6 ] of char )
     dn21        DMBCD_BDN    (array [ 6 ] of char )
     dn22        DMBCD_BDN    (array [ 6 ] of char )
     dn23        DMBCD_BDN    (array [ 6 ] of char )
     dn24        DMBCD_BDN    (array [ 6 ] of char )
     dn25        DMBCD_BDN    (array [ 6 ] of char )
     dn26        DMBCD_BDN    (array [ 6 ] of char )
     dn27        DMBCD_BDN    (array [ 6 ] of char )
     dn28        DMBCD_BDN    (array [ 6 ] of char )
     dn29        DMBCD_BDN    (array [ 6 ] of char )
     dn30        DMBCD_BDN    (array [ 6 ] of char )
     dn31        DMBCD_BDN    (array [ 6 ] of char )
```

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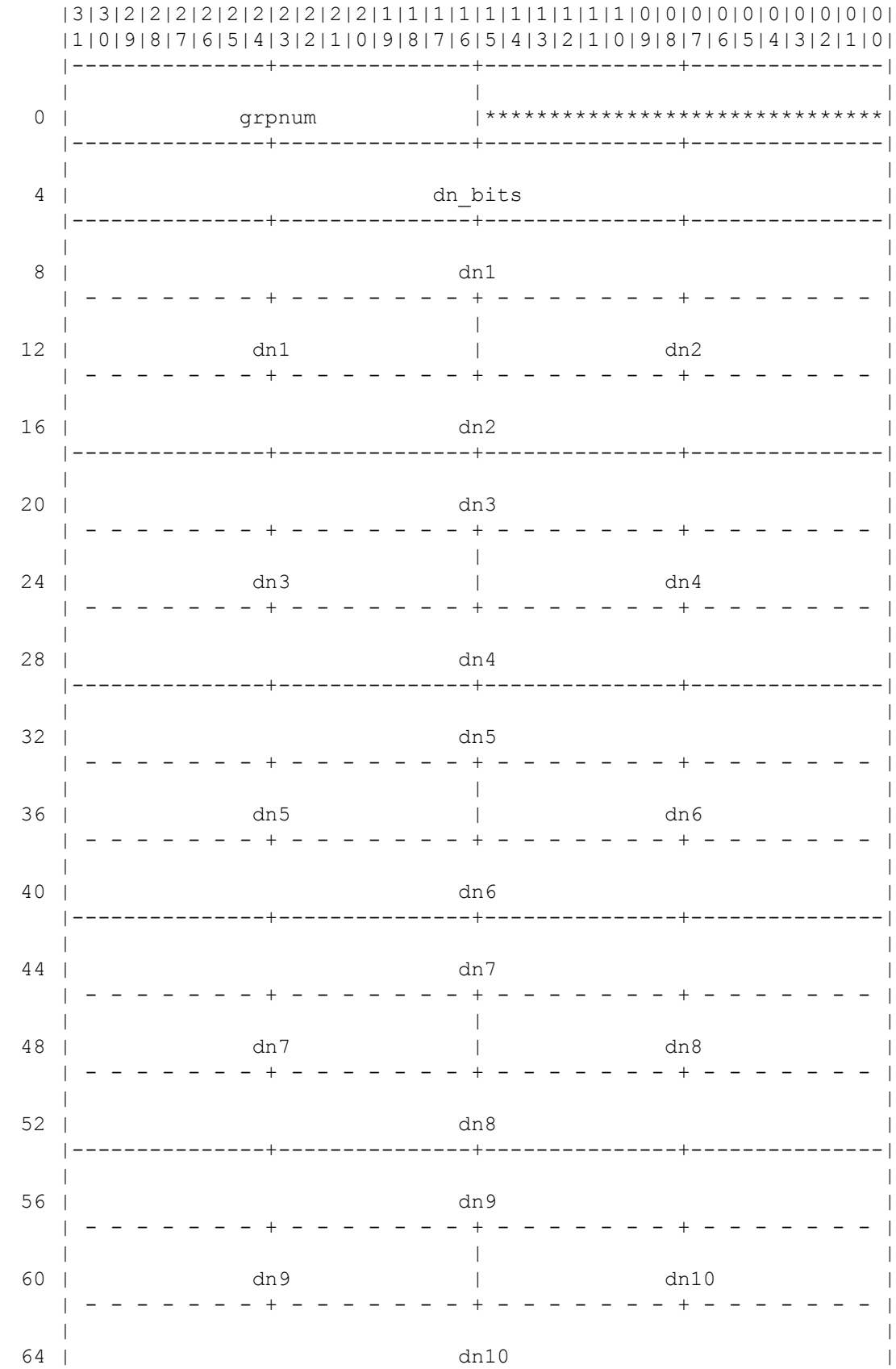
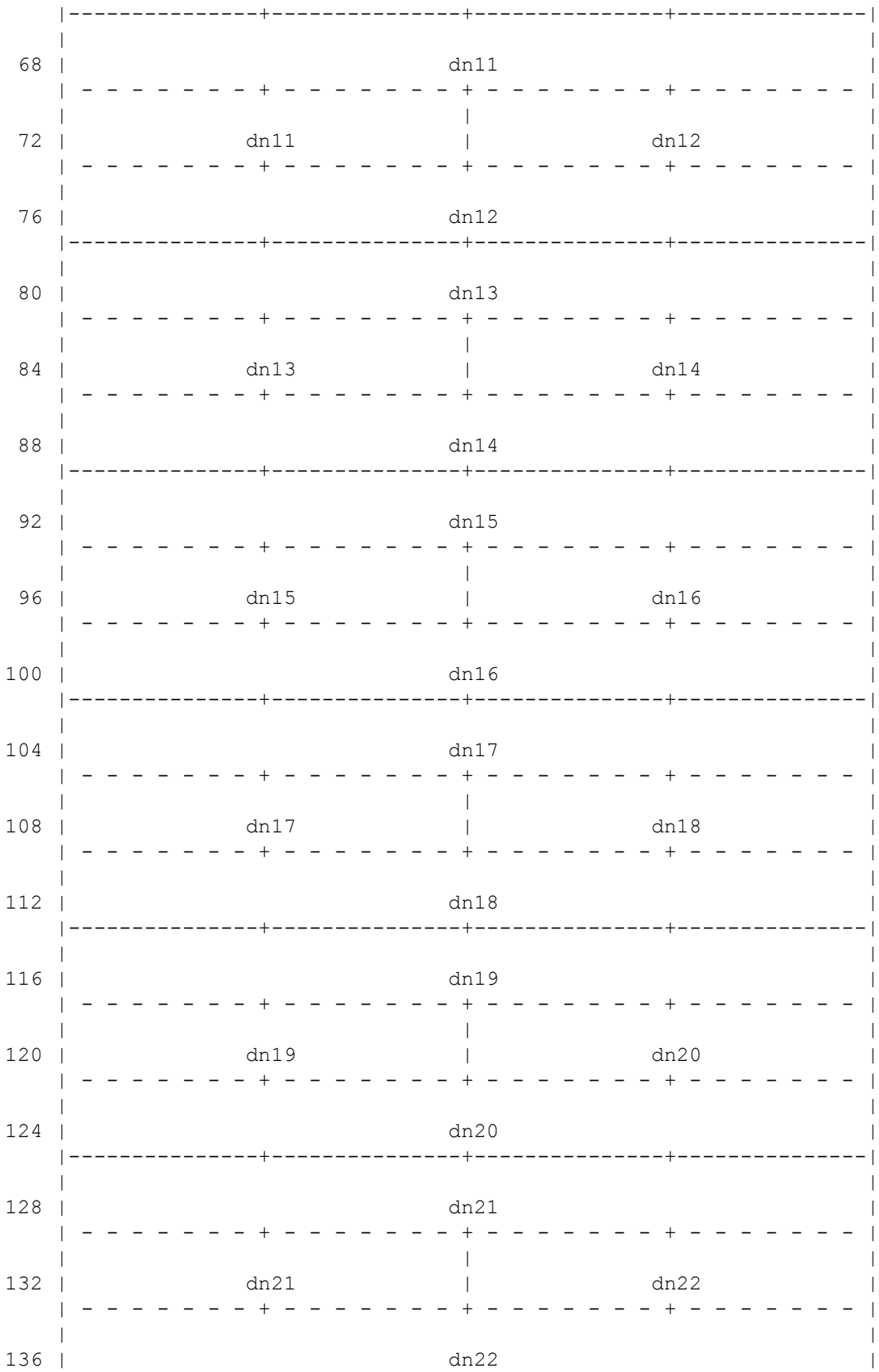
User, Compacted and Stored Tuple Layout LSFHCR




**Copyright © 1999 Lucent Technologies** 

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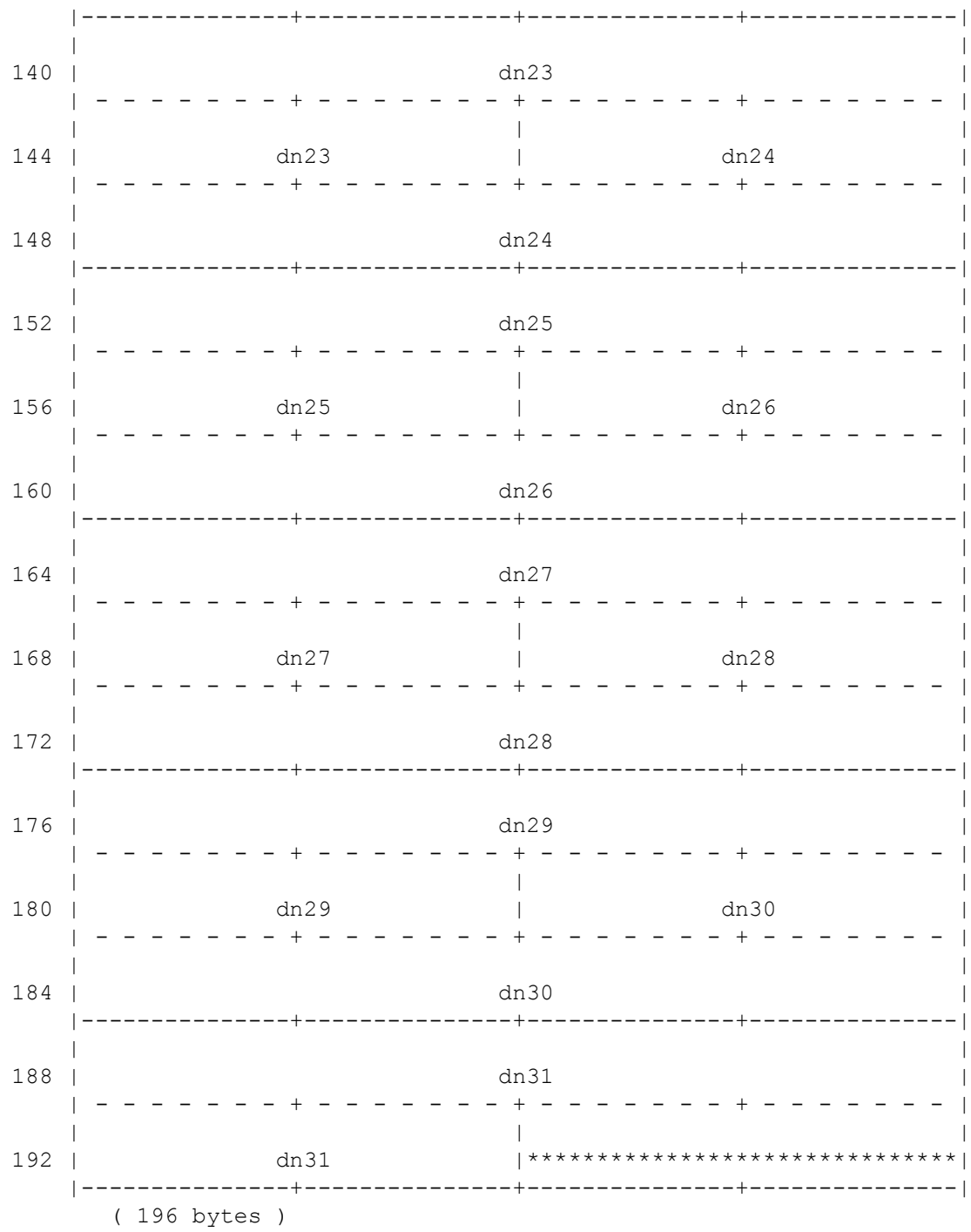


## 4. Population Rules for RLlsfhcr

**Relation Description**
LASS Selective Call Rejection Screen List for Multi-Line Hunt Group.

This is a SCR screen list.

The screen list (LSFHCR) for the Multi-Line Hunt Group is copied from member one's individual screen list (LSFSCR). However, LSFHCR contains DNs only. All DNs in LSFHCR must match with the DNs in LSFSCR of the

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member 1.

**Attribute: grpnum**

**Fullname:** Group Number

**Attribute Description** This is a logical key.

**Attribute: dn_bits**

**Fullname:** DN bits

**Attribute Description** Each bit field indicates whether an associated DN is occupied. 0 in this bit field indicates the corresponding DN is empty.

**Attribute: dn1**

**Fullname:** First DN stored in 5 characters

**Attribute Description** Each element of this array consists of two BCD digits of the first DN. Digit count is stored in the last byte. Example: A DN, 312-979-1234 is stored as

```
dn1[0] = 0x31
dn1[1] = 0x29
dn1[2] = 0x79
dn1[3] = 0x12
dn1[4] = 0x34
dn1[5] = 0x0a (digit count)
```

**Attribute: dn2**

**Fullname:** The second DN stored

**Attribute Description** See dn1.

**Attribute: dn3**

**Fullname:** The third DN stored

**Attribute Description**See dn1.

**Attribute: dn4**

**Fullname:** The fourth DN stored

**Attribute Description** See dn1.

**Attribute: dn5**

**Fullname:** The fifth DN stored

**Attribute Description** See dn1.

**Attribute: dn6**

**Fullname:** The sixth DN stored

**Attribute Description** See dn1.

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**Attribute: dn7**

**Fullname:** The seventh DN stored

**Attribute Description** See dn1.

**Attribute: dn8**

**Fullname:** The eighth DN stored

**Attribute Description** See dn1.

**Attribute: dn9**

**Fullname:** The ninth DN stored

**Attribute Description** See dn1.

**Attribute: dn10**

**Fullname:** The tenth DN stored

**Attribute Description** See dn1.

**Attribute: dn11**

**Fullname:** The eleventh DN stored

**Attribute Description** See dn1.

**Attribute: dn12**

**Fullname:** The twelfth DN stored

**Attribute Description** See dn1.

**Attribute: dn13**

**Fullname:** The thirteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn14**

**Fullname:** The fourteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn15**

**Fullname:** The fifteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn16**

**Fullname:** The sixteenth DN stored

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**Attribute Description** See dn1.

**Attribute: dn17**

**Fullname:** The seventeenth DN stored

**Attribute Description** See dn1.

**Attribute: dn18**

**Fullname:** The eighteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn19**

**Fullname:** The nineteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn20**

**Fullname:** The twentieth DN stored

**Attribute Description** See dn1.

**Attribute: dn21**

**Fullname:** The twenty first DNstored

**Attribute Description** See dn1.

**Attribute: dn22**

**Fullname:** The twenty second DN stored

**Attribute Description** See dn1.

**Attribute: dn23**

**Fullname:** The twenty third DN stored

**Attribute Description** See dn1.

**Attribute: dn24**

**Fullname:** The twenty fourth DN stored

**Attribute Description**See dn1.

**Attribute: dn25**

**Fullname:** The twenty fifth DN stored

**Attribute Description** See dn1.

**Attribute: dn26**

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**Fullname:** The twenty sixth DN stored

**Attribute Description** See dn1.

**Attribute: dn27**

**Fullname:** The twenty seventh DN stored

**Attribute Description** See dn1.

**Attribute: dn28**

**Fullname:** The twenty eighth DN stored

**Attribute Description** See dn1.

**Attribute: dn29**

**Fullname:** The twenty ninth DN stored

**Attribute Description** See dn1.

**Attribute: dn30**

**Fullname:** The thirtieth DN stored

**Attribute Description** See dn1.

**Attribute: dn31**

**Fullname:** The thirty first DN stored

**Attribute Description** See dn1.

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# LSFHDA

## 1. Description

Multiline hunt group SDA list for LASS.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 350 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 512 |
| data page size | 2048 |
| page level | 0 |
| corcable | DBYES |
| permutation type | unperm |
| optimize | DBYES |

## 3. Field Layout

```
LSFHDA      relid = 1300  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     grpnum      DMGRPNUM     (ushort)  <--- key
     dn_bits     DMULONG      (ulong)
     dn1         DMBCD_BDN    (array [ 6 ] of char )
     dn2         DMBCD_BDN    (array [ 6 ] of char )
     dn3         DMBCD_BDN    (array [ 6 ] of char )
     dn4         DMBCD_BDN    (array [ 6 ] of char )
     dn5         DMBCD_BDN    (array [ 6 ] of char )
     dn6         DMBCD_BDN    (array [ 6 ] of char )
     dn7         DMBCD_BDN    (array [ 6 ] of char )
     dn8         DMBCD_BDN    (array [ 6 ] of char )
     dn9         DMBCD_BDN    (array [ 6 ] of char )
     dn10        DMBCD_BDN    (array [ 6 ] of char )
     dn11        DMBCD_BDN    (array [ 6 ] of char )
     dn12        DMBCD_BDN    (array [ 6 ] of char )
     dn13        DMBCD_BDN    (array [ 6 ] of char )
     dn14        DMBCD_BDN    (array [ 6 ] of char )
     dn15        DMBCD_BDN    (array [ 6 ] of char )
     dn16        DMBCD_BDN    (array [ 6 ] of char )
     dn17        DMBCD_BDN    (array [ 6 ] of char )
     dn18        DMBCD_BDN    (array [ 6 ] of char )
     dn19        DMBCD_BDN    (array [ 6 ] of char )
     dn20        DMBCD_BDN    (array [ 6 ] of char )
     dn21        DMBCD_BDN    (array [ 6 ] of char )
     dn22        DMBCD_BDN    (array [ 6 ] of char )
     dn23        DMBCD_BDN    (array [ 6 ] of char )
     dn24        DMBCD_BDN    (array [ 6 ] of char )
     dn25        DMBCD_BDN    (array [ 6 ] of char )
     dn26        DMBCD_BDN    (array [ 6 ] of char )
     dn27        DMBCD_BDN    (array [ 6 ] of char )
     dn28        DMBCD_BDN    (array [ 6 ] of char )
     dn29        DMBCD_BDN    (array [ 6 ] of char )
     dn30        DMBCD_BDN    (array [ 6 ] of char )
     dn31        DMBCD_BDN    (array [ 6 ] of char )
```

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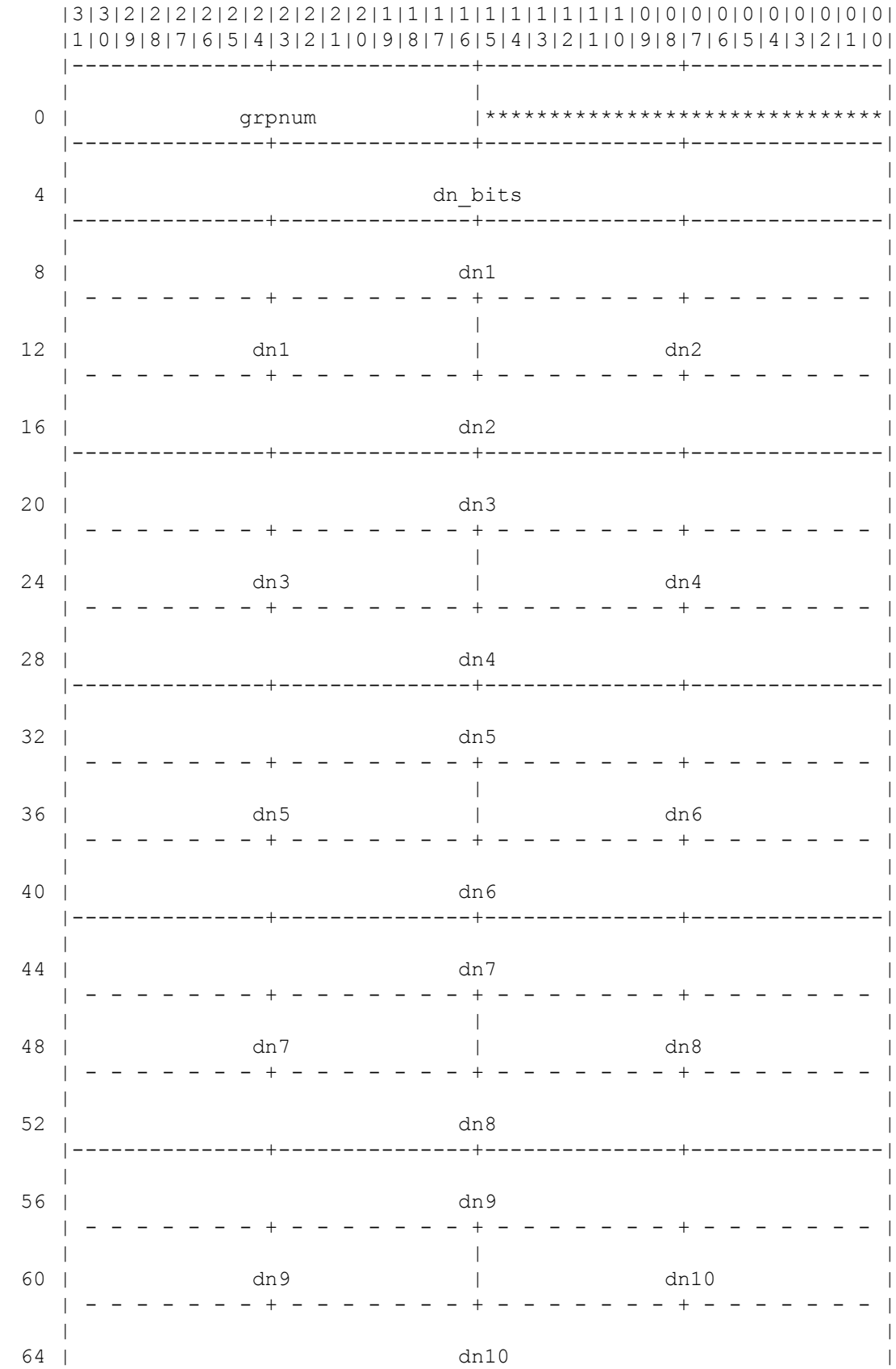
User, Compacted and Stored Tuple Layout LSFHDA

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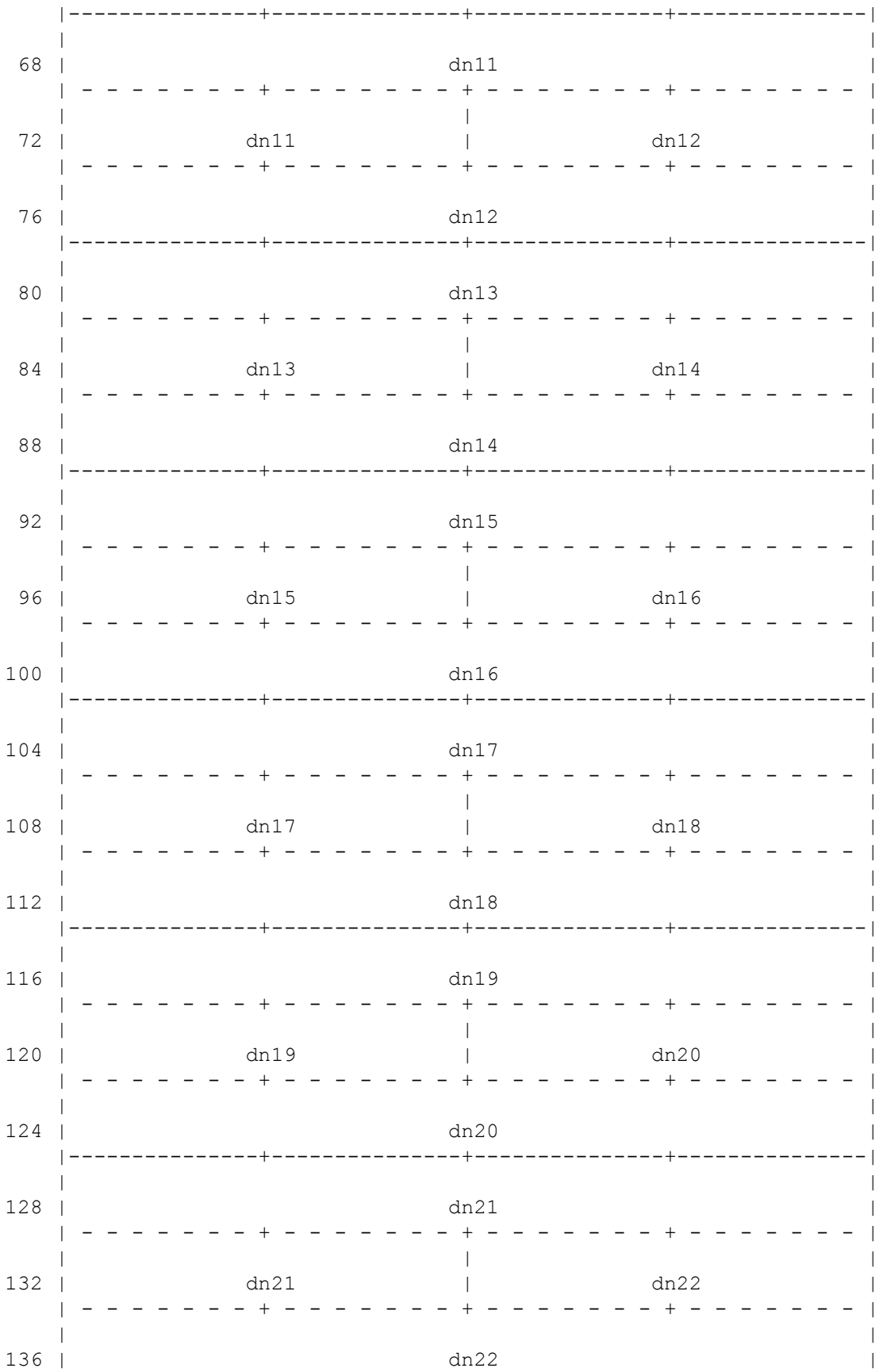


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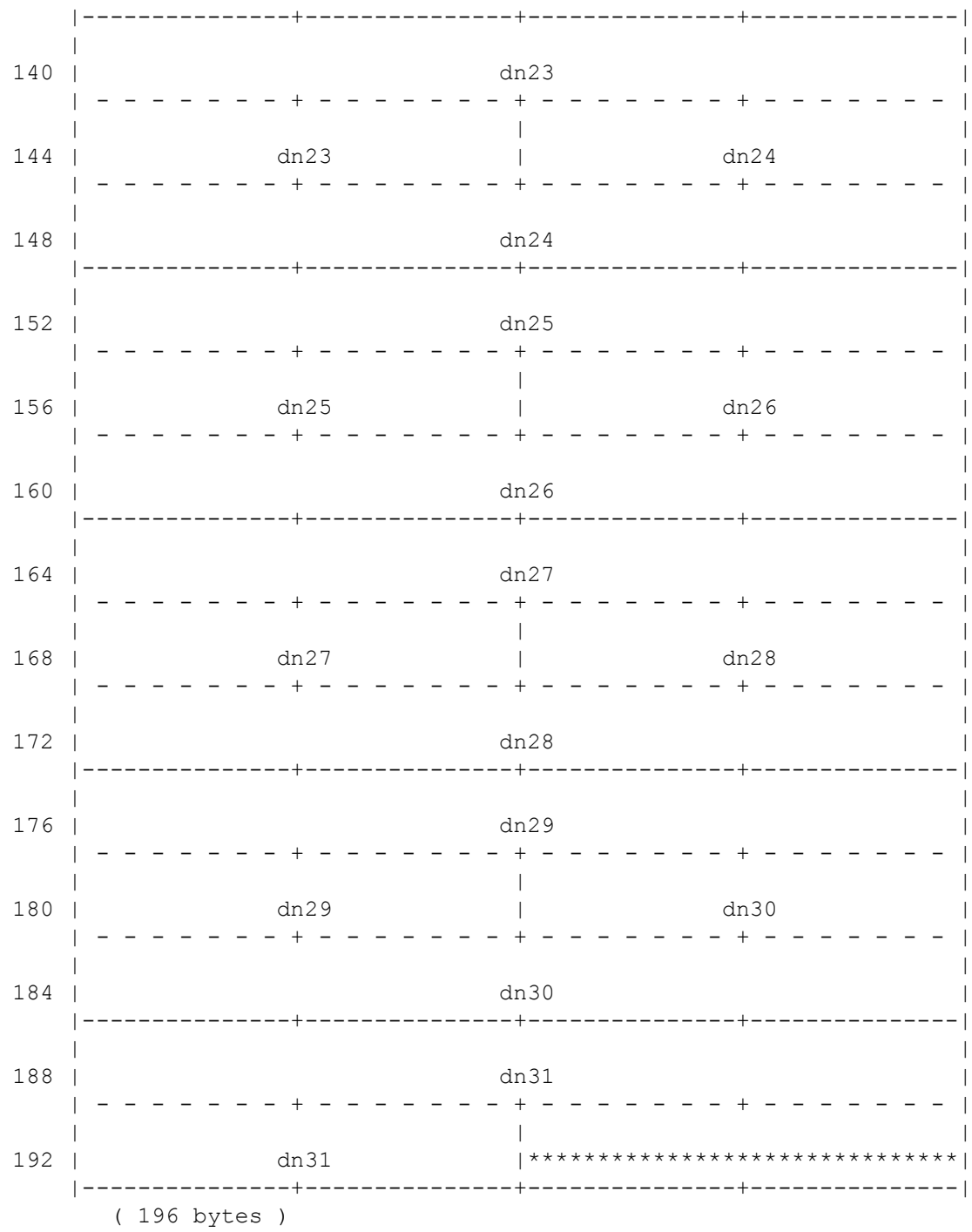


( 196 bytes )

## 4. Population Rules for RLlsfhda

**Relation Description**
LASS selective distinctive alerting screen list for multi-line hunt group (MLHG).

This is a SDA screen list.

The screen list (LSFHDA) for the Multi-Line Hunt Group is copied from member one's individual screen list (LSFSDA). However, LSFHDA contains DNs only. All DNs in LSFHDA must match with the DNs in LSFSDA of the

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member 1.

**Attribute: grpnum**

**Fullname:** Group Number

**Attribute Description** This is a logical key.

**Attribute: dn_bits**

**Fullname:** DN bits

**Attribute Description** Each bit field indicates whether an associated DN is occupied. 0 in this bit field indicates the corresponding DN is empty.

**Attribute: dn1**

**Fullname:** First DN stored in 5 characters

**Attribute Description** Each element of this array consists of two BCD digits of the first DN. Digit count is stored in the last byte. Example: A DN, 312-979-1234 is stored as

```
dn1[0] = 0x31
dn1[1] = 0x29
dn1[2] = 0x79
dn1[3] = 0x12
dn1[4] = 0x34
dn1[5] = 0x0a (digit count)
```

**Attribute: dn2**

**Fullname:** The second DN stored

**Attribute Description** See dn1.

**Attribute: dn3**

**Fullname:** The third DN stored

**Attribute Description**See dn1.

**Attribute: dn4**

**Fullname:** The fourth DN stored

**Attribute Description** See dn1.

**Attribute: dn5**

**Fullname:** The fifth DN stored

**Attribute Description** See dn1.

**Attribute: dn6**

**Fullname:** The sixth DN stored

**Attribute Description**See dn1.

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**Attribute: dn7**

**Fullname:** The seventh DN stored

**Attribute Description** See dn1.

**Attribute: dn8**

**Fullname:** The eighth DN stored

**Attribute Description** See dn1.

**Attribute: dn9**

**Fullname:** The ninth DN stored

**Attribute Description** See dn1.

**Attribute: dn10**

**Fullname:** The tenth DN stored

**Attribute Description** See dn1.

**Attribute: dn11**

**Fullname:** The eleventh DN stored

**Attribute Description** See dn1.

**Attribute: dn12**

**Fullname:** The twelfth DN stored

**Attribute Description** See dn1.

**Attribute: dn13**

**Fullname:** The thirteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn14**

**Fullname:** The fourteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn15**

**Fullname:** The fifteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn16**

**Fullname:** The sixteenth DN stored

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**Attribute Description** See dn1.

**Attribute: dn17**

**Fullname:** The seventeenth DN stored

**Attribute Description** See dn1.

**Attribute: dn18**

**Fullname:** The eighteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn19**

**Fullname:** The nineteenth DN stored

**Attribute Description** See dn1.

**Attribute: dn20**

**Fullname:** The twentieth DN stored

**Attribute Description** See dn1.

**Attribute: dn21**

**Fullname:** The twenty first DNstored

**Attribute Description** See dn1.

**Attribute: dn22**

**Fullname:** The twenty second DN stored

**Attribute Description** See dn1.

**Attribute: dn23**

**Fullname:** The twenty third DN stored

**Attribute Description** See dn1.

**Attribute: dn24**

**Fullname:** The twenty fourth DN stored

**Attribute Description** See dn1.

**Attribute: dn25**

**Fullname:** The twenty fifth DN stored

**Attribute Description** See dn1.

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**Attribute: dn26**

**Fullname:** The twenty sixth DN stored

**Attribute Description** See dn1.

**Attribute: dn27**

**Fullname:** The twenty seventh DN stored

**Attribute Description** See dn1.

**Attribute: dn28**

**Fullname:** The twenty eighth DN stored

**Attribute Description** See dn1.

**Attribute: dn29**

**Fullname:** The twenty ninth DN stored

**Attribute Description** See dn1.

**Attribute: dn30**

**Fullname:** The thirtieth DN stored

**Attribute Description** See dn1.

**Attribute: dn31**

**Fullname:** The thirty first DN stored

**Attribute Description** See dn1.

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# LSFSCA

## 1. Description

Individual line SCA screen list for subscription.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected tuples in relation | 11 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 100 |
| l1 length of subkey1 | 4 |
| p1 position of subkey1 | 0 |
| l2 length of subkey2 | 1 |
| p2 position of subkey2 | 16 |
| l3 length of subkey3 | 8 |
| p3 position of subkey3 | 4 |
| l4 length of subkey4 | 2 |
| p4 position of subkey4 | 17 |
| l5 length of subkey5 | 4 |
| p5 position of subkey5 | 12 |
| l6 length of subkey6 | 1 |
| p6 position of subkey6 | 19 |
| ks key store | DBNO |
| corcable | DBYES |
| permutation type | unperm |

## 3. Field Layout

```
LSFSCA      relid = 1301  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     sca_idx     DMSEQIDX     (ushort: 16)  <--- key, not stored
     range       DMLSFRNG     (ushort: 4)  <--- key, not stored
     dn_cnt      DMUNS6       (ushort: 6)
     scrn_cnt    DMUNS6       (ushort: 6)
     priv_cnt    DMUNS6       (ushort: 6)
     dn1         DMBCD_BDN    (array [ 6 ] of char )
     dn2         DMBCD_BDN    (array [ 6 ] of char )
     dn3         DMBCD_BDN    (array [ 6 ] of char )
     dn4         DMBCD_BDN    (array [ 6 ] of char )
     dn5         DMBCD_BDN    (array [ 6 ] of char )
     dn6         DMBCD_BDN    (array [ 6 ] of char )
     ext_dn1     DMEXT_DN     (enum: 4)
     ext_dn2     DMEXT_DN     (enum: 4)
     ext_dn3     DMEXT_DN     (enum: 4)
     ext_dn4     DMEXT_DN     (enum: 4)
     ext_dn5     DMEXT_DN     (enum: 4)
     ext_dn6     DMEXT_DN     (enum: 4)
         User and Compacted Tuple Layout     LSFSCA
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |       |                       |
  0 |            sca_idx             | range |***********************|
    |---------------+---------------+---------------+---------------|
    |           |           |       |           |   |               |
```

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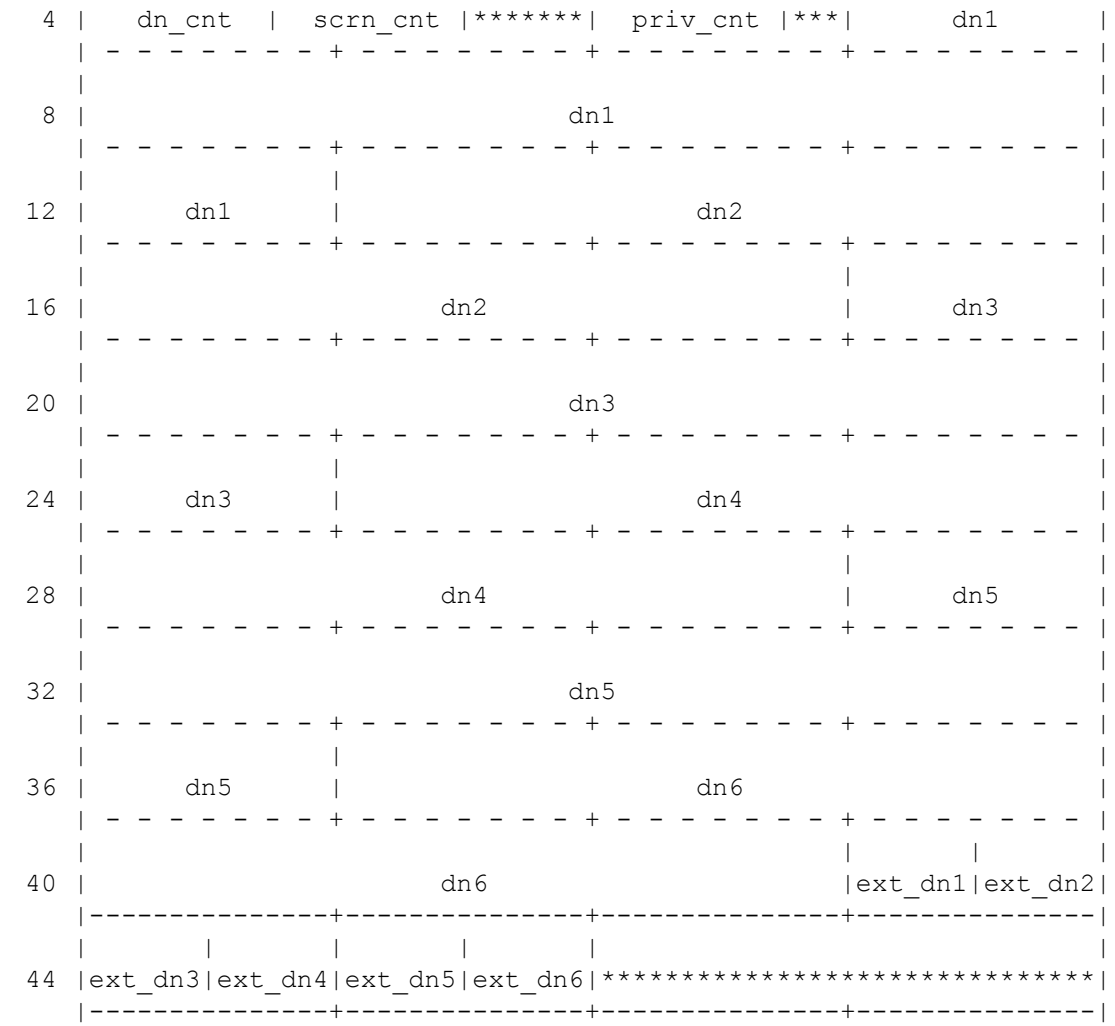


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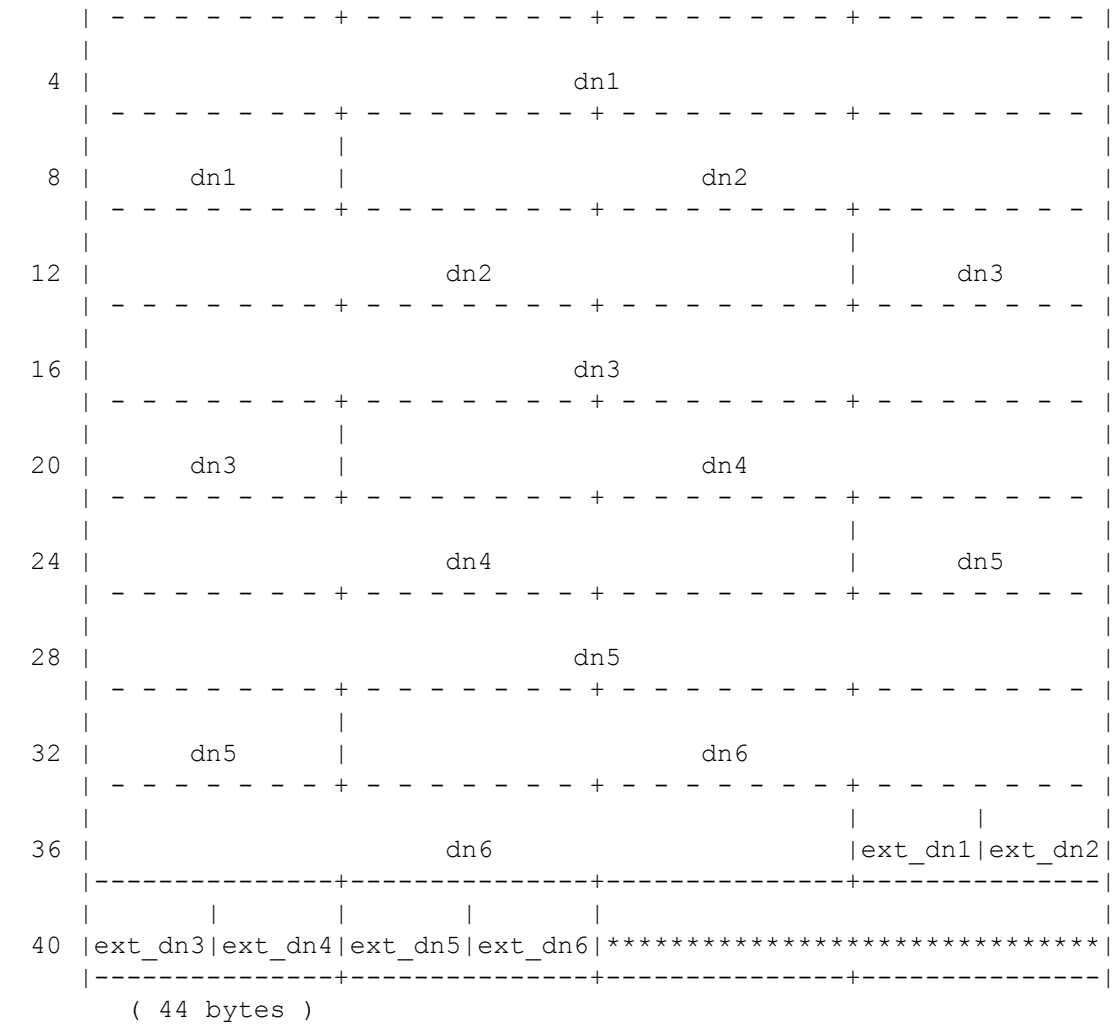


## 4. Population Rules for RLlsfsca

**Relation Description**
LSFSCA is a SCA screening list for subscribers.

Tuples of this relation will be allocated/deallocated ONLY through RC/V. SLE will not allocate or deallocate tuples of this relation.

The maximum number of DNs in a screening list a user can have for a particular feature is defined as office parameters. (such as Glscamx for SCA and Glcarmx for CAR)

A user is not allowed to add DNs beyond the office limits. However, a special care must be given when the office reduces the maximum. This is because there might be users who have DNs more than the new maximum number.

There is no immediate action required for this reduction of the office maximum. But here are subsequent actions SLE and RC/V should take.

SLE and RC/V should not allow those users to add new entries unless they remove enough DNs so that the total number of DNs in the list is below the new maximum.

Any mechanisms of surveying the largest list in an office will not be available in the 5E6 generic.

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**Attribute: sca_idx**

**Fullname:** Selective Call Acceptance Index

**Attribute Description** This is a logical key. Since the RLsca_ltm relation serves as a head cell of the SCA screening list tuples, RLlsfsca, there must be a corresponding RLsca_ltm with a matching sca_idx. RLsca_ltm.gen_avail must be DBNO.

**Attribute: range**

**Fullname:** Range

**Attribute Description** This field is used to read subsequent SCA screen lists tuples. The range of the first tuple is equal to 0.

**Attribute: dn_cnt**

**Fullname:** DN count including the extensions

**Attribute Description** If an extension is requested to be entered (through SLE session only), the corresponding DN and the extension are stored in two consecutive dn-slots for voice-back purpose. (Note: These two numbers can be stored in two tuples: DN in the last dn-slot in a tuple and extension in the first dn_slot of the following tuple.)

The dn_cnt of the first tuple (whose range is 0), is equal to the total number of occupied slots in the screening list. (The actual number of DNs is scrn_cnt.) For the subsequent tuples (whose ranges are from 1 to 10), this field should be set to 0.

**Attribute: scrn_cnt**

**Fullname:** Number of actual DNs for screening

**Attribute Description** For the first tuple (whose range is 0), this field indicates the total number of DNs stored for the screening excluding the number of extensions. For the subsequent tuples, this field should be set to zero.

**Attribute: priv_cnt**

**Fullname:** Number of private DNs for screening

**Attribute Description** For the first tuple (whose range is 0), this field indicates the total number of private DNs stored for the screening excluding the number of extensions. For the subsequent tuples, this field should be set to zero.

**Attribute: dn1**

**Fullname:** First DN stored

**Attribute Description** Each element of this array consists of two BCD digits of the first DN. Digit count is stored in the last byte.

```
Example: A DN, 312-979-1234 is stored as:
           dn1[0] = 0x31
           dn1[1] = 0x29
           dn1[2] = 0x79
           dn1[3] = 0x12
```

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```
dn1[4] = 0x34
dn1[5] = 0x0a (digit count)
```

The first tuple (range = 0) can not have an extension in the first dn slot.

**Attribute: dn2 through dn6**

**Fullname:** The second through the sixth DN stored

**Attribute Description** See dn1.

**Attribute: ext_dn1**

**Fullname:** dn1 status flag

**Attribute Description** This field is used to indicate one of the following cases:

```
DN_NULL,  for a Null entry
DN_SEVEN, for a DN entered as a 7-digit DN by user
DN_TEN,   for a DN entered as a 10-digit DN by user
DN_PRIV,  for a private DN
DN_EXT,   Currently is not used by SLE.
DN_NUNXT, for a DN, converted from an extension entered by user.
NUEXT,    for an extension entered by the user. The corresponding DN
          is stored in the previous dn field marked as DN_NUNXT. The
          extension is stored for voice-back purpose during the
          SLE session.
    Note: ext_dn = NUEXT is not allowed for the first dn
          (dn1[]) of the first tuple (range = 0)
```

**Attribute: ext_dn2 through ext_dn6**

**Fullname:** dn2 through dn6 status flag

**Attribute Description** See the description of ext_dn1.

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# LSFSCF

## 1. Description

Individual line SCF screen list for subscription.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected tuples in relation | 15 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 100 |
| l1 length of subkey1 | 4 |
| p1 position of subkey1 | 0 |
| l2 length of subkey2 | 1 |
| p2 position of subkey2 | 16 |
| l3 length of subkey3 | 8 |
| p3 position of subkey3 | 4 |
| l4 length of subkey4 | 2 |
| p4 position of subkey4 | 17 |
| l5 length of subkey5 | 4 |
| p5 position of subkey5 | 12 |
| l6 length of subkey6 | 1 |
| p6 position of subkey6 | 19 |
| ks key store | DBNO |
| corcable | DBYES |
| permutation type | unperm |

## 3. Field Layout

```
LSFSCF      relid = 1302  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     scf_idx     DMSEQIDX     (ushort: 16)  <--- key, not stored
     range       DMLSFRNG     (ushort: 4)  <--- key, not stored
     dn_cnt      DMUNS6       (ushort: 6)
     scrn_cnt    DMUNS6       (ushort: 6)
     priv_cnt    DMUNS6       (ushort: 6)
     dn1         DMBCD_BDN    (array [ 6 ] of char )
     dn2         DMBCD_BDN    (array [ 6 ] of char )
     dn3         DMBCD_BDN    (array [ 6 ] of char )
     dn4         DMBCD_BDN    (array [ 6 ] of char )
     dn5         DMBCD_BDN    (array [ 6 ] of char )
     dn6         DMBCD_BDN    (array [ 6 ] of char )
     ext_dn1     DMEXT_DN     (enum: 4)
     ext_dn2     DMEXT_DN     (enum: 4)
     ext_dn3     DMEXT_DN     (enum: 4)
     ext_dn4     DMEXT_DN     (enum: 4)
     ext_dn5     DMEXT_DN     (enum: 4)
     ext_dn6     DMEXT_DN     (enum: 4)
         User and Compacted Tuple Layout     LSFSCF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |       |                       |
  0 |            scf_idx             | range |***********************|
    |---------------+---------------+---------------+---------------|
    |           |           |       |           |   |               |
```

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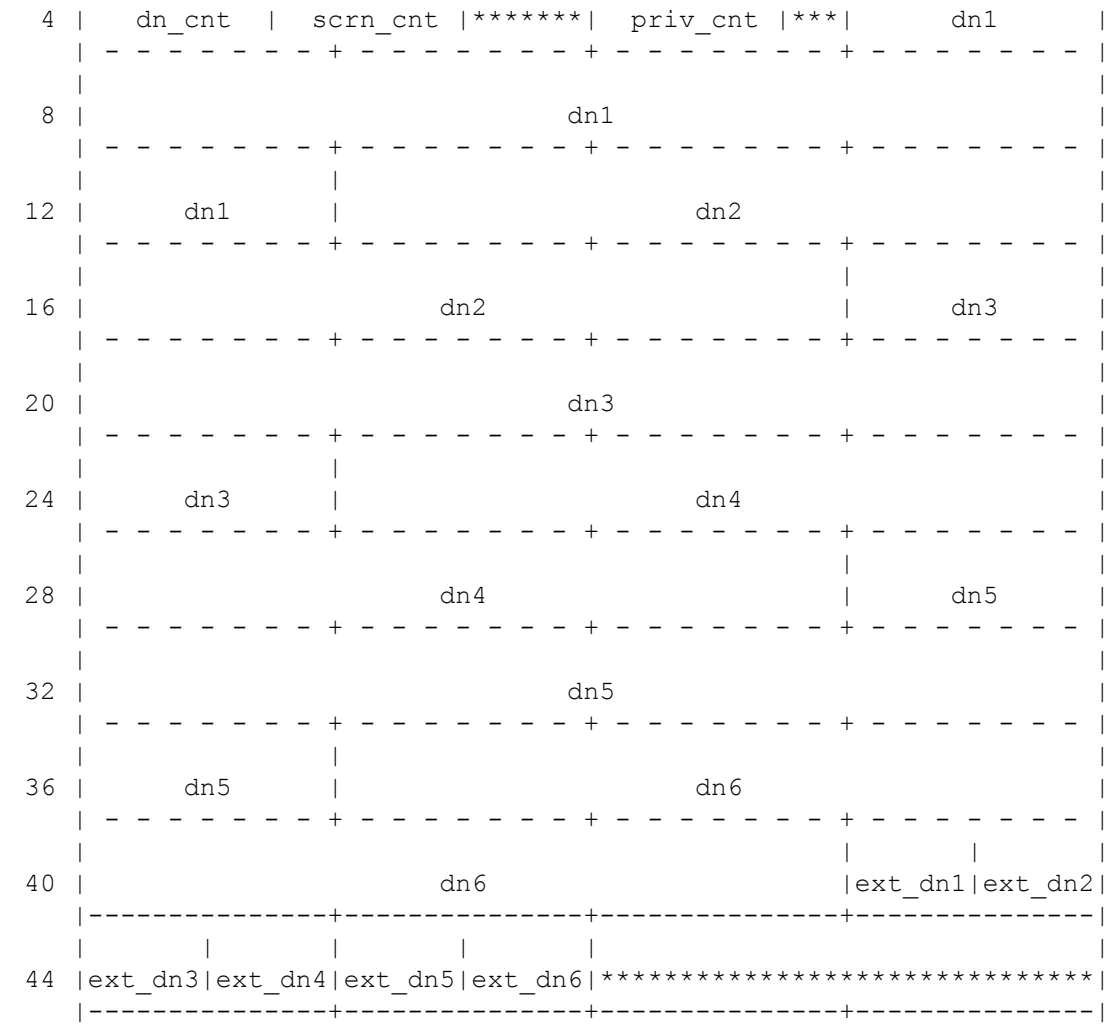
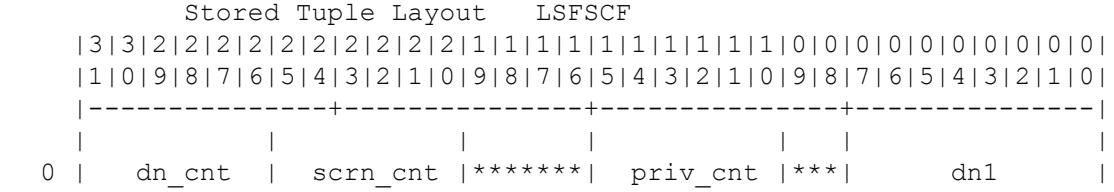



( 48 bytes )

| | | |
|---|---|---|
| dn_cnt | DMUNS6 | (ushort: 6) |
| scrn_cnt | DMUNS6 | (ushort: 6) |
| priv_cnt | DMUNS6 | (ushort: 6) |
| dn1 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn2 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn3 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn4 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn5 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn6 | DMBCD_BDN | (array [ 6 ] of char ) |
| ext_dn1 | DMEXT_DN | (enum: 4) |
| ext_dn2 | DMEXT_DN | (enum: 4) |
| ext_dn3 | DMEXT_DN | (enum: 4) |
| ext_dn4 | DMEXT_DN | (enum: 4) |
| ext_dn5 | DMEXT_DN | (enum: 4) |
| ext_dn6 | DMEXT_DN | (enum: 4) |

Stored Tuple Layout LSFSCF

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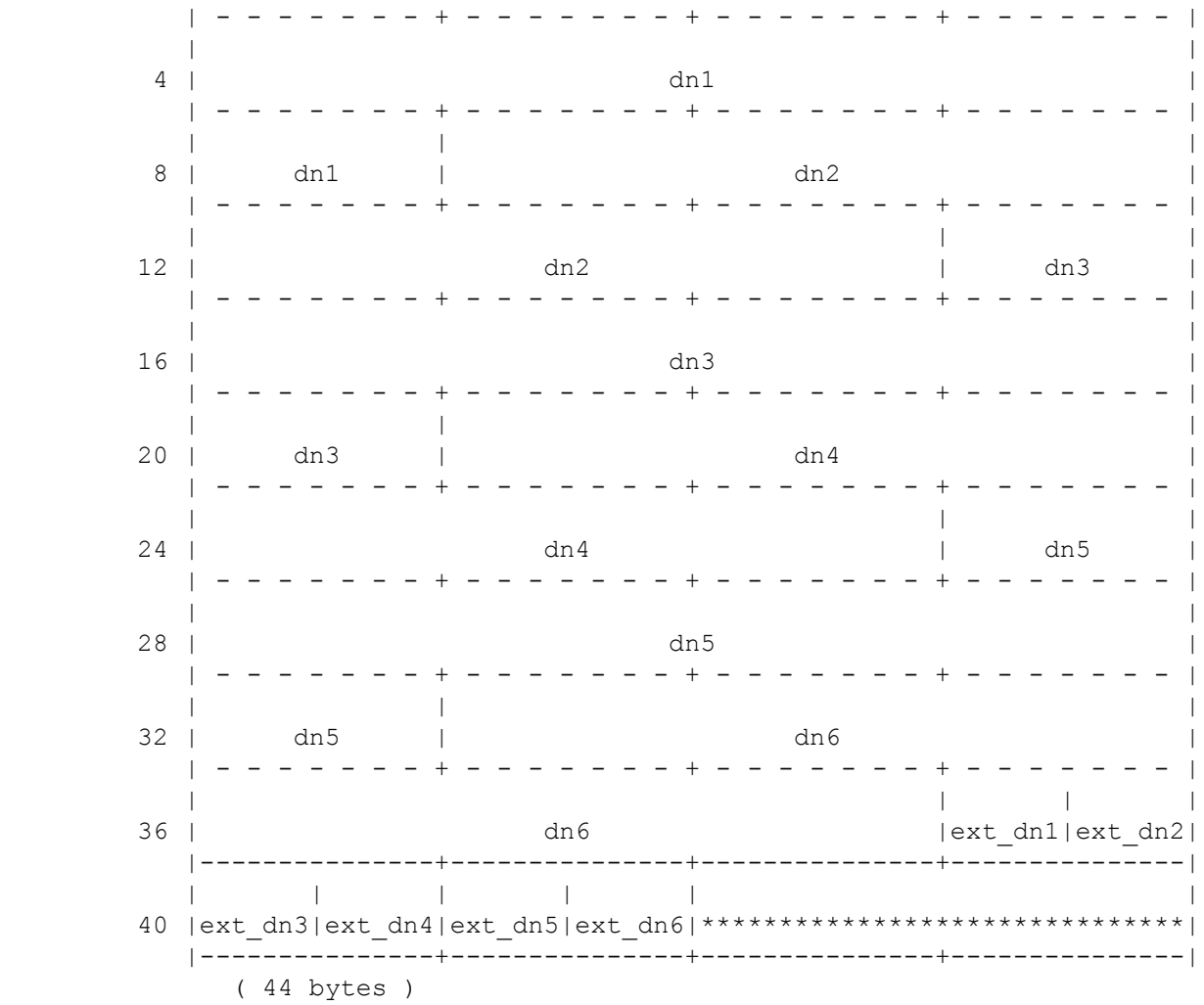


## 4. Population Rules for RLlsfscf

**Relation Description**
LASS selective call forwarding screen list for subscribers.

LSFSCF is a SCF screening list for subscribers. Tuples of this relation will be allocated/deallocated ONLY through RC/V. SLE will not allocate or deallocate tuples of this relation.

The maximum number of DNs in a screening list a user can have for a particular feature is defined as office parameters. (such as Glscfmx)

A user is not allowed to add DNs beyond the office limits. However, a special care must be given when the office reduces the maximum. This is because there might be users who have DNs more than the new maximum number.

There is no immediate action required for this reduction of the office maximum. But here are subsequent actions SLE and RC/V should take.

SLE and RC/V should not allow those users to add new entries unless they remove enough DNs so that the total number of DNs in the list is below the new maximum.

Any mechanisms of surveying the largest list in an office will not be available in the 5E6 generic.

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**Attribute: scf_idx**

**Fullname:** Selective Call Forwarding Index

**Attribute Description** This is a logical key. Since the RLscf_ltm relation serves as a head cell of the SCF screening list tuples, RLlsfscf, there must be a corresponding RLscf_ltm with a matching scf_idx. RLscf_ltm.gen_avail must be DBNO.

**Attribute: range**

**Fullname:** Range

**Attribute Description** This field is used to read subsequent SCF screen lists tuples. The range of the first tuple is equal to 0.

**Attribute: dn_cnt**

**Fullname:** DN count including the extensions

**Attribute Description** If an extension is requested to be entered (through SLE session only), the corresponding DN and the extension are stored in two consecutive dn-slots for voice-back purpose. (Note: These two numbers can be stored in two tuples: DN in the last dn-slot in a tuple and extension in the first dn_slot of the following tuple.)

The dn_cnt of the first tuple (whose range is 0), is equal to the total number of occupied slots in the screening list. (The actual number of DNs is scrn_cnt.) For the subsequent tuples (whose ranges are from 1 to 10), this field should be set to zero.

**Attribute: scrn_cnt**

**Fullname:** Number of actual DNs for screening

**Attribute Description**For the first tuple (whose range is 0), this field indicates the total number of DNs stored for the screening excluding the number of extensions. For the subsequent tuples, this field should be set to zero.

**Attribute: priv_cnt**

**Fullname:** Number of private DNs for screening

**Attribute Description** For the first tuple (whose range is 0), this field indicates the total number of private DNs stored for the screening excluding the number of extensions. For the subsequent tuples, this field should be set to zero.

**Attribute: dn1**

**Fullname:** First DN stored

**Attribute Description** Each element of this array consists of two BCD digits of the first DN. Digit count is stored in the last byte.

```
Example: A DN, 312-979-1234 is stored as
           dn1[0] = 0x31
           dn1[1] = 0x29
           dn1[2]  = 0x79
           dn1[3] = 0x12
           dn1[4] = 0x34
```

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```
          dn1[5]  = 0x0a (digit count)
The first tuple (range = 0) can not have an extension
in the first dn slot.
```

**Attribute: dn2 through dn6**

**Fullname:** The second through the sixth DN stored

**Attribute Description** See dn1.

**Attribute: ext_dn1**

**Fullname:** dn1 status flag

**Attribute Description** This field is used to indicate one of the following cases:

```
DN_NULL,  for a Null entry
DN_SEVEN, for a DN entered as a 7-digit DN by user
DN_TEN,   for a DN entered as a 10-digit DN by user
DN_PRIV,  for a private DN
DN_EXT,   Currently is not used by SLE.
DN_NUNXT, for a DN, converted from an extension entered by user.
NUEXT,    for an extension entered by the user. The corresponding
          DN is stored in the previous dn field marked as DN_NUNXT.
          The extension is stored for voice-back purpose during the
          SLE session.
Note: ext_dn = NUEXT is not allowed for the first dn
      (dn1[]) of the first tuple (range = 0)
```

**Attribute: ext_dn2 through ext_dn6**

**Fullname:** dn2 through dn6 status flag

**Attribute Description** See the description of ext_dn1.

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# LSFSCR

## 1. Description

This relation contains the individual line SCR screen list for subscription.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected tuples in relation | 15 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 100 |
| l1 length of subkey1 | 4 |
| p1 position of subkey1 | 0 |
| l2 length of subkey2 | 1 |
| p2 position of subkey2 | 16 |
| l3 length of subkey3 | 8 |
| p3 position of subkey3 | 4 |
| l4 length of subkey4 | 2 |
| p4 position of subkey4 | 17 |
| l5 length of subkey5 | 4 |
| p5 position of subkey5 | 12 |
| l6 length of subkey6 | 1 |
| p6 position of subkey6 | 19 |
| ks key store | DBNO |
| corcable | DBYES |
| permutation type | unperm |

## 3. Field Layout

```
LSFSCR      relid = 1303  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     scr_idx     DMSEQIDX     (ushort: 16) <--- key, not stored
     range       DMLSFRNG     (ushort: 4) <--- key, not stored
     dn_cnt      DMUNS6       (ushort: 6)
     scrn_cnt    DMUNS6       (ushort: 6)
     priv_cnt    DMUNS6       (ushort: 6)
     dn1         DMBCD_BDN    (array [ 6 ] of char )
     dn2         DMBCD_BDN    (array [ 6 ] of char )
     dn3         DMBCD_BDN    (array [ 6 ] of char )
     dn4         DMBCD_BDN    (array [ 6 ] of char )
     dn5         DMBCD_BDN    (array [ 6 ] of char )
     dn6         DMBCD_BDN    (array [ 6 ] of char )
     ext_dn1     DMEXT_DN     (enum: 4)
     ext_dn2     DMEXT_DN     (enum: 4)
     ext_dn3     DMEXT_DN     (enum: 4)
     ext_dn4     DMEXT_DN     (enum: 4)
     ext_dn5     DMEXT_DN     (enum: 4)
     ext_dn6     DMEXT_DN     (enum: 4)
         User and Compacted Tuple Layout     LSFSCR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |       |                       |
  0 |            scr_idx             | range |***********************|
    |---------------+---------------+---------------+---------------|
    |           |           |       |           |   |               |
  4 |   dn_cnt  |  scrn_cnt |*******|  priv_cnt |***|      dn1      |
```

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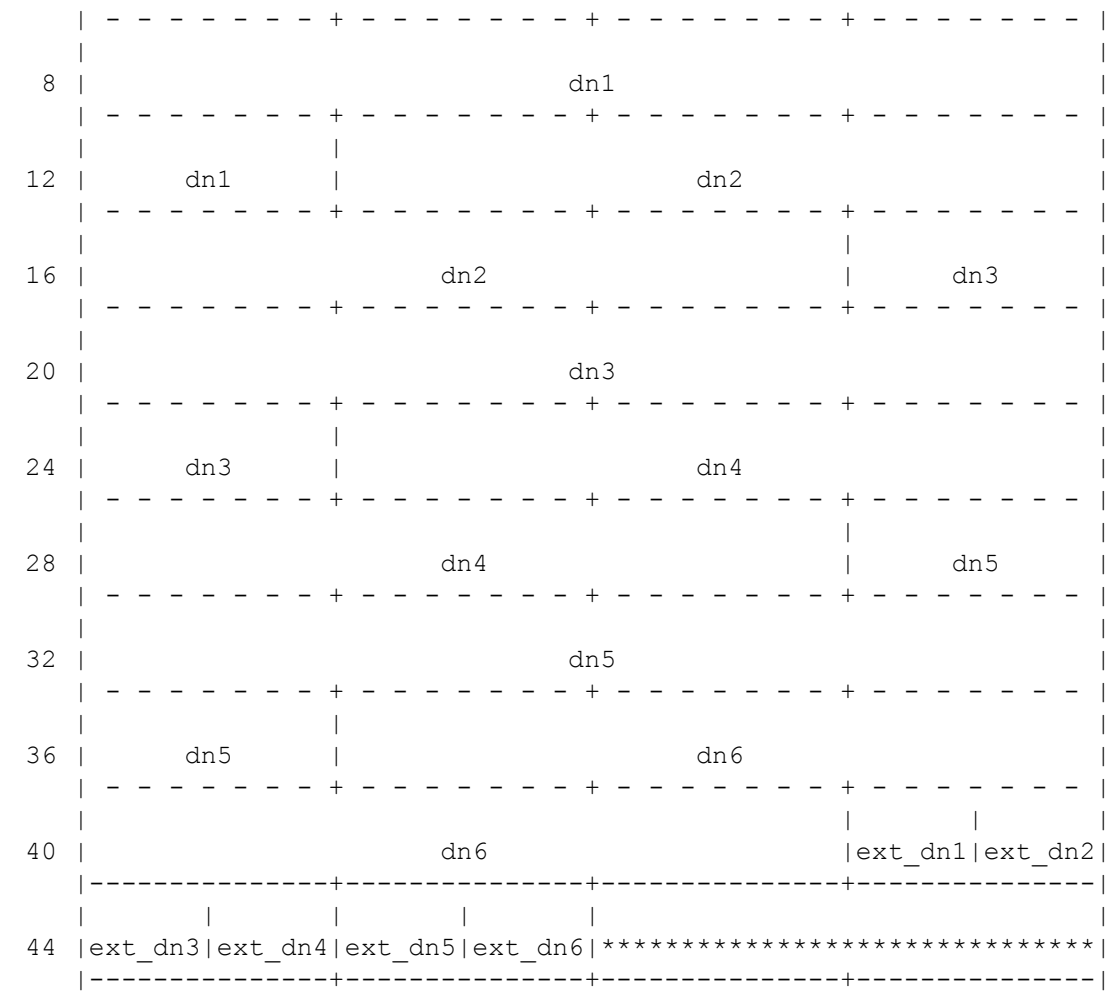
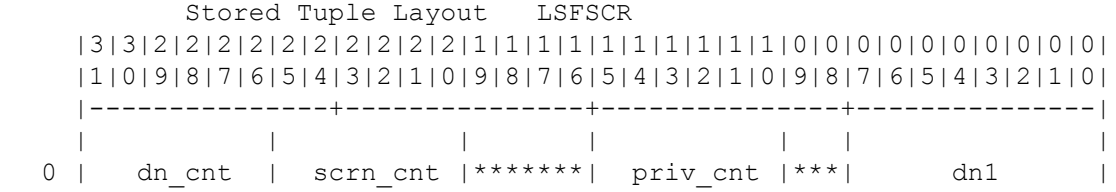



```
dn_cnt      DMUNS6       (ushort: 6)
scrn_cnt    DMUNS6       (ushort: 6)
priv_cnt    DMUNS6       (ushort: 6)
dn1         DMBCD_BDN    (array [ 6 ] of char )
dn2         DMBCD_BDN    (array [ 6 ] of char )
dn3         DMBCD_BDN    (array [ 6 ] of char )
dn4         DMBCD_BDN    (array [ 6 ] of char )
dn5         DMBCD_BDN    (array [ 6 ] of char )
dn6         DMBCD_BDN    (array [ 6 ] of char )
ext_dn1     DMEXT_DN     (enum: 4)
ext_dn2     DMEXT_DN     (enum: 4)
ext_dn3     DMEXT_DN     (enum: 4)
ext_dn4     DMEXT_DN     (enum: 4)
ext_dn5     DMEXT_DN     (enum: 4)
ext_dn6     DMEXT_DN     (enum: 4)
```

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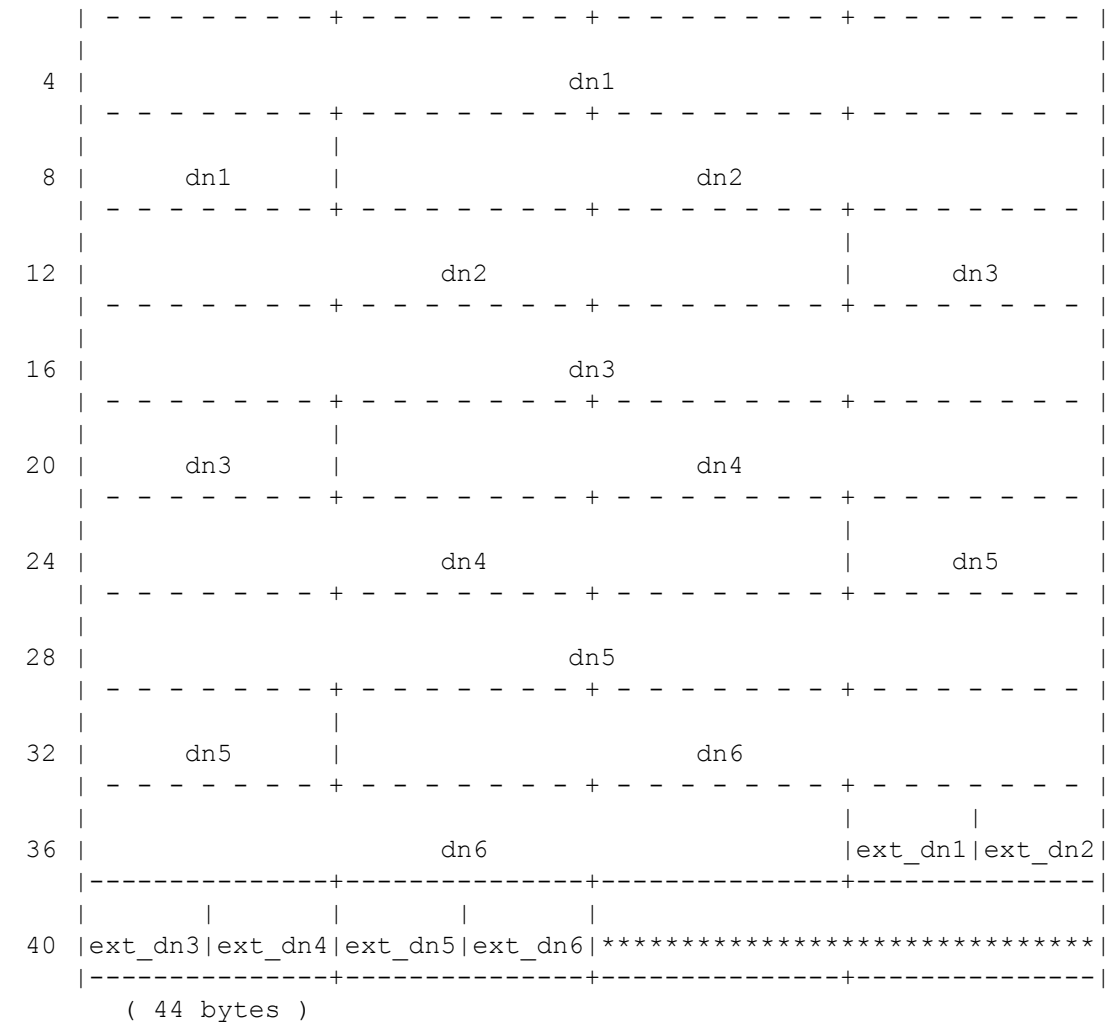


## 4. Population rules for RLlsfscr

**Relation Description**

LASS Selective Call Rejection Screen List
for Subscribers

LSFSCR is a SCR screening list for subscribers. Tuples of this relation will be allocated/deallocated ONLY through RC/V. SLE will not allocate or deallocate tuples of this relation.

The maximum number of DNs in a screening list a user can have for a particular feature is defined as office parameters. (such as, Glscrmx) A user is not allowed to add DNs beyond the office limits. However, a special care must be given when the office reduces the maximum. This is because there might be users who have DNs more than the new maximum number.
There is no immediate action required for this reduction of the office maximum. But here are subsequent actions SLE and RC/V should take.

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SLE and RC/V should not allow those users to add new entries unless they remove enough DNs so that the total number of DNs in the list is below the new maximum. Any mechanisms of surveying the largest list in an office will not be available in the 5E6 generic."

**Attribute:**
scr_idx
**Fullname:**
Selective Call Rejection Index
**Attribute Description:**
This is a logical key.
Since the RLscr_ltm relation serves as a head cell of the SCR screening list tuples, RLlsfscr, there must be a corresponding RLscr_ltm with a matching scr_idx.
RLscr_ltm.gen_avail must be DBNO.

**Attribute:**
range
**Fullname:**
Range
**Attribute Description:**
This field is used to read subsequent SCR screen lists tuples. The range of the first tuple is equal to 0.

**Attribute:**
dn_cnt
**Fullname:**
DN count including the extensions
**Attribute Description:**
If an extension is requested to be entered (through SLE session only), the corresponding DN and the extension are stored in two consecutive dn-slots for voice-back purpose. (Note: These two numbers can be stored in two tuples: DN in the last dn-slot in a tuple and extension in the first dn_slot of the following tuple.)
The dn_cnt of the first tuple (whose range is 0), is equal to the total number of occupied slots in the screening list. (The actual number of DNs is scrn_cnt.) For the subsequent tuples (whose ranges are from 1 to 10), this field should be set to zero

**Attribute:**

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scrn_cnt

**Fullname:**

Number of actual DNs for screening

**Attribute Description:**

For the first tuple (whose range is 0), this field indicates the total number of DNs stored for the screening excluding the number of extensions. For the subsequent tuples, this field should be set to zero.

**Attribute:**

priv_cnt

**Fullname:**

Number of private DNs for screening

**Attribute Description:**

For the first tuple (whose range is 0), this field indicates the total number of private DNs stored for the screening excluding the number of extensions. For the subsequent tuples, this field should be set to zero.

**Attribute:**

dn1

**Fullname:**

First DN stored

**Attribute Description:**

Each element of this array consists of two BCD digits of the first DN.
Digit count is stored in the last byte.
Example: A DN, 312-979-1234 is stored as

```
dn1[0] = 0x31
dn1[1] = 0x29
dn1[2] = 0x79
dn1[3] = 0x12
dn1[4] = 0x34
dn1[5] = 0x0a (digit count)
```

The first tuple (range = 0) can not have an extension in the first dn slot.

**Attribute:**

dn2

**Fullname:**

The second DN stored

**Attribute Description:**

See dn1.

**Attribute:**

dn3

**Fullname:**

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The third DN stored

**Attribute Description:**

See dn1.

**Attribute:**

dn4

**Fullname:**

The fourth DN stored

**Attribute Description:**

See dn1.

**Attribute:**

dn5

**Fullname:**

The fifth DN stored

**Attribute Description:**

See dn1.

**Attribute:**

dn6

**Fullname:**

The sixth DN stored

**Attribute Description:**

See dn1.

**Attribute:**

ext_dn1

**Fullname:**

dn1 status flag

**Attribute Description:**

This field is used to indicate one of the following cases:

DN_NULL, for a Null entry

DN_SEVEN, for a DN entered as a 7-digit DN by user

DN_TEN, for a DN entered as a 10-digit DN by user

DN_PRIV, for a private DN

DN_EXT, Currently is not used by SLE.

DN_NUNXT, for a DN, converted from an extension entered by user.

NUEXT, for an extension entered by the user. The corresponding DN is stored in the previous dn field marked as DN_NUNXT. The extension is stored for voice-back purpose during the SLE session.

Note: ext_dn = NUEXT is not allowed for the first dn (dn1[]) of the first tuple (range = 0)

**Attribute:**

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ext_dn2
**Fullname:**
dn2 status flag
**Attribute Description:**
See the description of ext_dn1.

**Attribute:**
ext_dn3
**Fullname:**
dn3 status flag
**Attribute Description:**
See the description of ext_dn1.

**Attribute:**
ext_dn4
**Fullname:**
dn4 status flag
**Attribute Description:**
See the description of ext_dn1.

**Attribute:**
ext_dn5
**Fullname:**
dn5 status flag
**Attribute Description:**
See the description of ext_dn1.

**Attribute:**
ext_dn6
**Fullname:**
dn6 status flag
**Attribute Description:**
See the description of ext_dn1.

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# LSFSDA

## 1. Description

Individual line SDA screen list for subscription.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected tuples in relation | 4 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 100 |
| l1 length of subkey1 | 4 |
| p1 position of subkey1 | 0 |
| l2 length of subkey2 | 1 |
| p2 position of subkey2 | 16 |
| l3 length of subkey3 | 8 |
| p3 position of subkey3 | 4 |
| l4 length of subkey4 | 2 |
| p4 position of subkey4 | 17 |
| l5 length of subkey5 | 4 |
| p5 position of subkey5 | 12 |
| l6 length of subkey6 | 1 |
| p6 position of subkey6 | 19 |
| ks key store | DBNO |
| corcable | DBYES |
| permutation type | unperm |

## 3. Field Layout

```
LSFSDA      relid = 1304  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     sda_idx     DMSEQIDX     (ushort: 16)  <--- key, not stored
     range       DMLSFRNG     (ushort: 4)  <--- key, not stored
     dn_cnt      DMUNS6       (ushort: 6)
     scrn_cnt    DMUNS6       (ushort: 6)
     priv_cnt    DMUNS6       (ushort: 6)
     dn1         DMBCD_BDN    (array [ 6 ] of char )
     dn2         DMBCD_BDN    (array [ 6 ] of char )
     dn3         DMBCD_BDN    (array [ 6 ] of char )
     dn4         DMBCD_BDN    (array [ 6 ] of char )
     dn5         DMBCD_BDN    (array [ 6 ] of char )
     dn6         DMBCD_BDN    (array [ 6 ] of char )
     ext_dn1     DMEXT_DN     (enum: 4)
     ext_dn2     DMEXT_DN     (enum: 4)
     ext_dn3     DMEXT_DN     (enum: 4)
     ext_dn4     DMEXT_DN     (enum: 4)
     ext_dn5     DMEXT_DN     (enum: 4)
     ext_dn6     DMEXT_DN     (enum: 4)
         User and Compacted Tuple Layout     LSFSDA
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |       |                       |
  0 |            sda_idx             | range |***********************|
    |---------------+---------------+---------------+---------------|
    |           |           |       |           |   |               |
```

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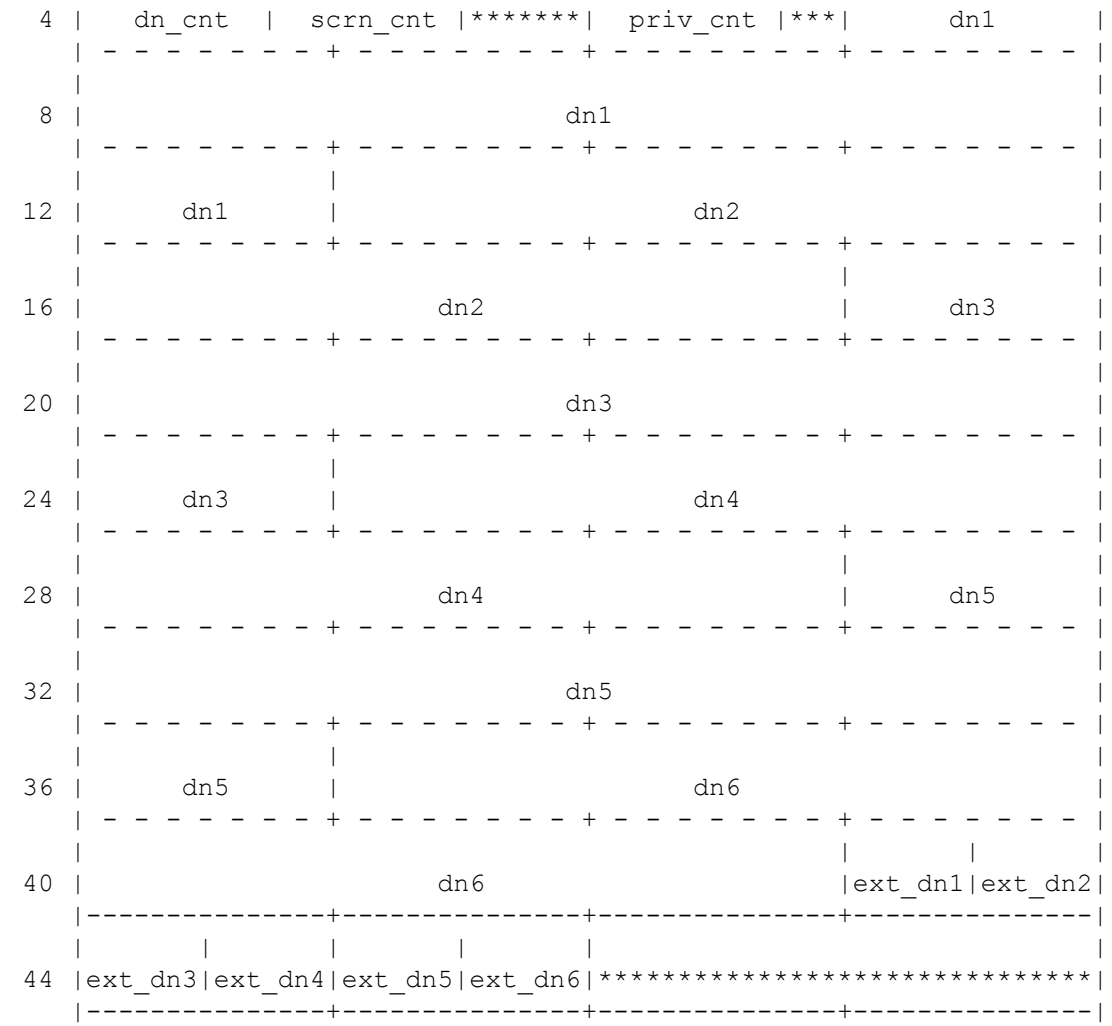
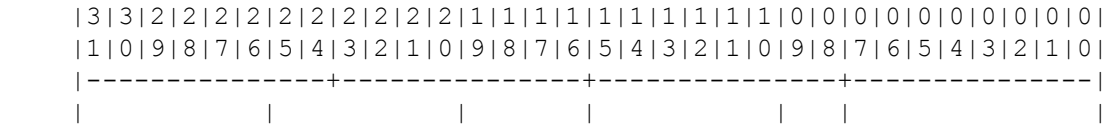



| | | |
|---|---|---|
| dn_cnt | DMUNS6 | (ushort: 6) |
| scrn_cnt | DMUNS6 | (ushort: 6) |
| priv_cnt | DMUNS6 | (ushort: 6) |
| dn1 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn2 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn3 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn4 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn5 | DMBCD_BDN | (array [ 6 ] of char ) |
| dn6 | DMBCD_BDN | (array [ 6 ] of char ) |
| ext_dn1 | DMEXT_DN | (enum: 4) |
| ext_dn2 | DMEXT_DN | (enum: 4) |
| ext_dn3 | DMEXT_DN | (enum: 4) |
| ext_dn4 | DMEXT_DN | (enum: 4) |
| ext_dn5 | DMEXT_DN | (enum: 4) |
| ext_dn6 | DMEXT_DN | (enum: 4) |

Stored Tuple Layout LSFSDA

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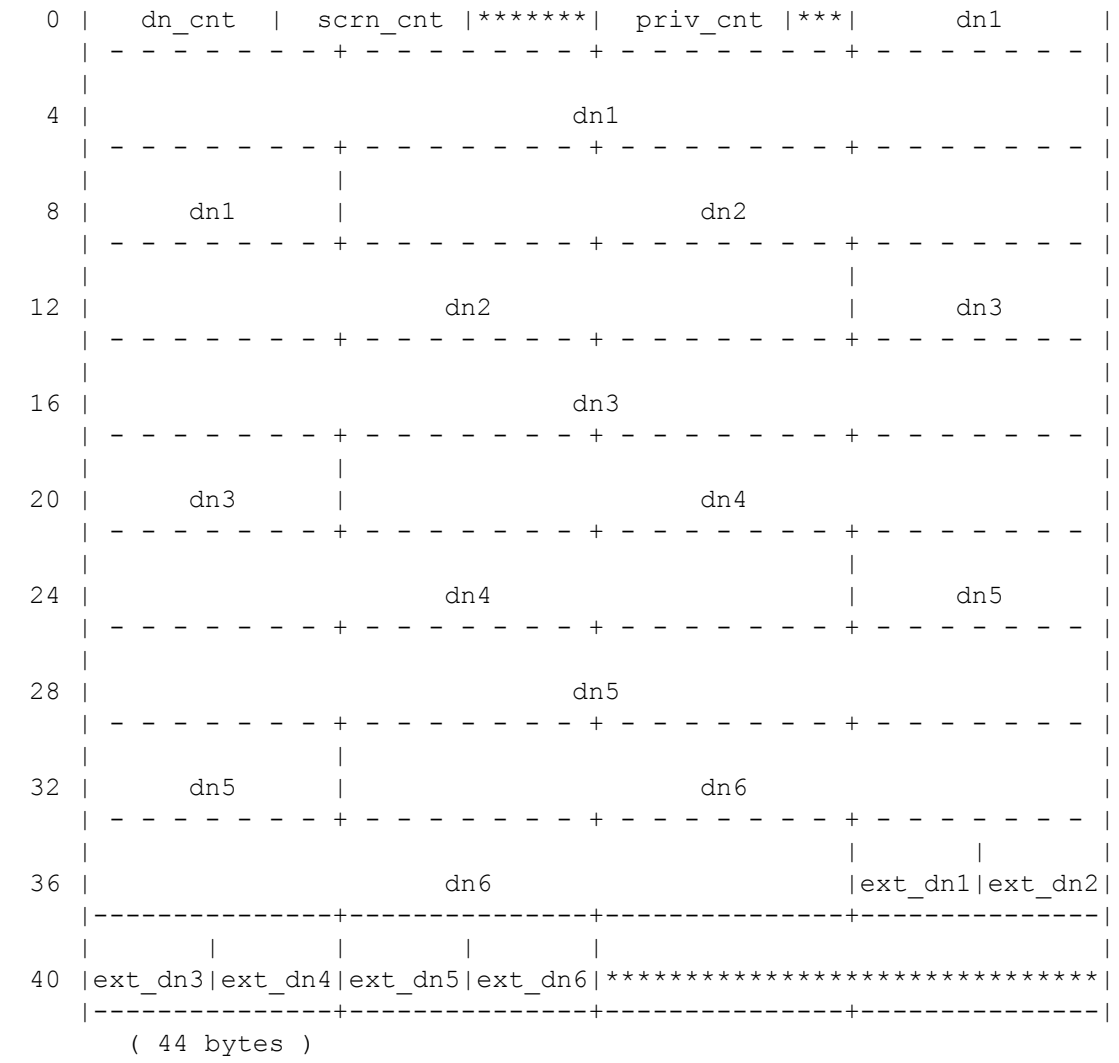


## 4. Population Rules for RLlsfsda

**Relation Description**
LSFSDA is a SDA screening list for subscribers.

Tuples of this relation will be allocated/deallocated ONLY through RC/V. SLE will not allocate or deallocate tuples of this relation.

The maximum number of DNs in a screening list a user can have for a particular feature is defined as office parameters (such as Glsdamx).

A user is not allowed to add DNs beyond the office limits. However, a special care must be given when the office reduces the maximum. This is because there might be users who have DNs more than the new maximum number.

There is no immediate action required for this reduction of the office maximum. But here are subsequent actions SLE and RC/V should take.

SLE and RC/V should not allow those users to add new entries unless they remove enough DNs so that the total number of DNs in the list is below the new maximum.

Any mechanisms of surveying the largest list in an office will not be available in the 5E6 generic.

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**Attribute: sda_idx**

**Fullname:** Selective Distinctive Alert Index

**Attribute Description** This is a logical key. Since the RLsda_ltm relation serves as a head cell of the SDA screening list tuples, RLlsfsda, there must be a corresponding RLsda_ltm with a matching sda_idx. RLsda_ltm.gen_avail must be DBNO.

**Attribute: range**

**Fullname:** Range

**Attribute Description** This field is used to read subsequent SDA screen lists tuples. The range of the first tuple is equal to 0.

**Attribute: dn_cnt**

**Fullname:** DN count including the extensions

**Attribute Description** If an extension is requested to be entered (through SLE session only), the corresponding DN and the extension are stored in two consecutive dn-slots for voice-back purpose. (Note: These two numbers can be stored in two tuples: DN in the last dn-slot in a tuple and extension in the first dn_slot of the following tuple.)

The dn_cnt of the first tuple (whose range is 0), is equal to the total number of occupied slots in the screening list. (The actual number of DNs is scrn_cnt.) For the subsequent tuples (whose ranges are from 1 to 10), this field should be set to zero

**Attribute: scrn_cnt**

**Fullname:** Number of actual DNs for screening

**Attribute Description** For the first tuple (whose range is 0), this field indicates the total number of DNs stored for the screening excluding the number of extensions. For the subsequent tuples, this field should be set to zero.

**Attribute: priv_cnt**

**Fullname:** Number of private DNs for screening

**Attribute Description** For the first tuple (whose range is 0), this field indicates the total number of private DNs stored for the screening excluding the number of non-unique extensions. For the subsequent tuples, this field should be set to zero.

**Attribute: dn1**

**Fullname:** First DN stored

**Attribute Description** Each element of this array consists of two BCD digits of the first DN. Digit count is stored in the last byte.

```
Example: A DN, 312-979-1234 is stored as
           dn1[0] = 0x31
           dn1[1] = 0x29
           dn1[2]  = 0x79
           dn1[3] = 0x12
```

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```
          dn1[4] = 0x34
          dn1[5]  = 0x0a (digit count)
 The first tuple (range = 0) can not have an extension
  in the first dn slot.
```

**Attribute: dn2 through dn6**

**Fullname:** The second through the sixth DN stored

**Attribute Description** See dn1.

**Attribute: ext_dn1**

**Fullname:** dn1 status flag

**Attribute Description**This field is used to indicate one of the following cases:

```
DN_NULL,  for a Null entry
DN_SEVEN, for a DN entered as a 7-digit DN by user
DN_TEN,   for a DN entered as a 10-digit DN by user
DN_PRIV,  for a private DN
DN_EXT,   Currently is not used by SLE.
DN_NUNXT, for a DN, converted from an extension entered by user.
NUEXT,    for an extension entered by the user. The corresponding DN
          is stored in the previous dn field marked as DN_NUNXT. The
          extension is stored for voice-back purpose during the
          SLE session.
Note: ext_dn = NUEXT is not allowed for the first dn
      (dn1[]) of the first tuple (range = 0)
```

**Attribute: ext_dn2 through ext_dn6**

**Fullname:** dn2 through dn6 status flag

**Attribute Description** See the description of ext_dn1.

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# LSP_CARR

## 1. Description

This relation contains the routing and signaling information for alternate Local Service Providers (LSP).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3000 |
| expected number of tuples | 500 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| foldtype | DBGC31 |

## 3. Field Layout

```
LSP_CARR    relid = 2811  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     carrid      DMCARRID     (array [ 4 ] of char ) <--- key
     ffcf6       DMUNS16      (ushort)
     rti         DMRTEIDX     (ushort: 14)
 (a) signal      DMSIGTYP     (enum: 2)
     cdi         DMDESTIDX    (ushort: 12)
 (b) desttype    DMCALLTYP    (enum: 3) <--- key
 (c) ffcf1       DMBOOL       (enum: 1)
     ffcf5       DMUNS8       (ushort: 8)
 (d) ffcf2       DMBOOL       (enum: 1)
 (e) ffcf3       DMBOOL       (enum: 1)
 (f) ffcf4       DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout   LSP_CARR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                             carrid                            |
    |---------------+---------------+---------------+---------------|
    |                               |                           |   |
  4 |             ffcf6             |            rti            | a |
    |---------------+---------------+---------------+---------------|
    |                       |     | |               | | | |         |
  8 |          cdi          |  b  |c|     ffcf5     |d|e|f|*********|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population rules for RLlsp_carr

### Relation Description

```
        Alternate local service provider carrier
        This relation contains routing and signaling
        information for alternate local service providers (LSP).
```

**Attribute:**

```
        carrid
```

**Fullname:**

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Carrier id

**Attribute Description:**

This attribute is the intra-LATA local carrier ID. It must be entered as a 4 digit character string, where each digit can be '0' thru '9'.

**Attribute:**

desttype

**Fullname:**

Destination type

**Attribute Description:**

This attribute specifies the type of local calls handled by the alternate local service providers ((OPER (0-), NORMAL0P (0+), NORMAL1P ((None/1)+ 7/10 digit non-operator), LOCDA (411), DA ((NPA)-555-1212), REPAIR (611), and BUSFOC (811) calls).

**Attribute:**

cdi

**Fullname:**

Code index

**Attribute Description:**

This attribute is the code index for LSP calls.

**Attribute:**

rti

**Fullname:**

Route index

**Attribute Description:**

This attribute is the route index for LSP calls.

**Attribute:**

signal

**Fullname:**

Signal type for local carriers

**Attribute Description:**

This attribute is the signal type used for signaling local carrier calls. It can have three values; None (default), start pulse (ST), which indicates that the call is going to an inter-exchange carrier and start pulse prime (STP), which indicates that the call is LEC or presubscribed intra-LATA local carrier (PLC) routed.

**Attribute:**

ffcf1

**Fullname:**

spare bool 1

**Attribute Description:**

Spare boolean

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**Attribute:**
ffcf2
**Fullname:**
spare bool 2
**Attribute Description:**
Spare boolean

**Attribute:**
ffcf3
**Fullname:**
spare bool 3
**Attribute Description:**
Spare boolean

**Attribute:**
ffcf4
**Fullname:**
spare bool 4
**Attribute Description:**
Spare boolean

**Attribute:**
ffcf5
**Fullname:**
spare uns8
**Attribute Description:**
Spare unsigned short 8

**Attribute:**
ffcf6
**Fullname:**
spare uns16
**Attribute Description:**
Spare unsigned short 16

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# LSP_CDN

## 1. Description

This relation contains the Alternate Local Service Provider Conversion DN.

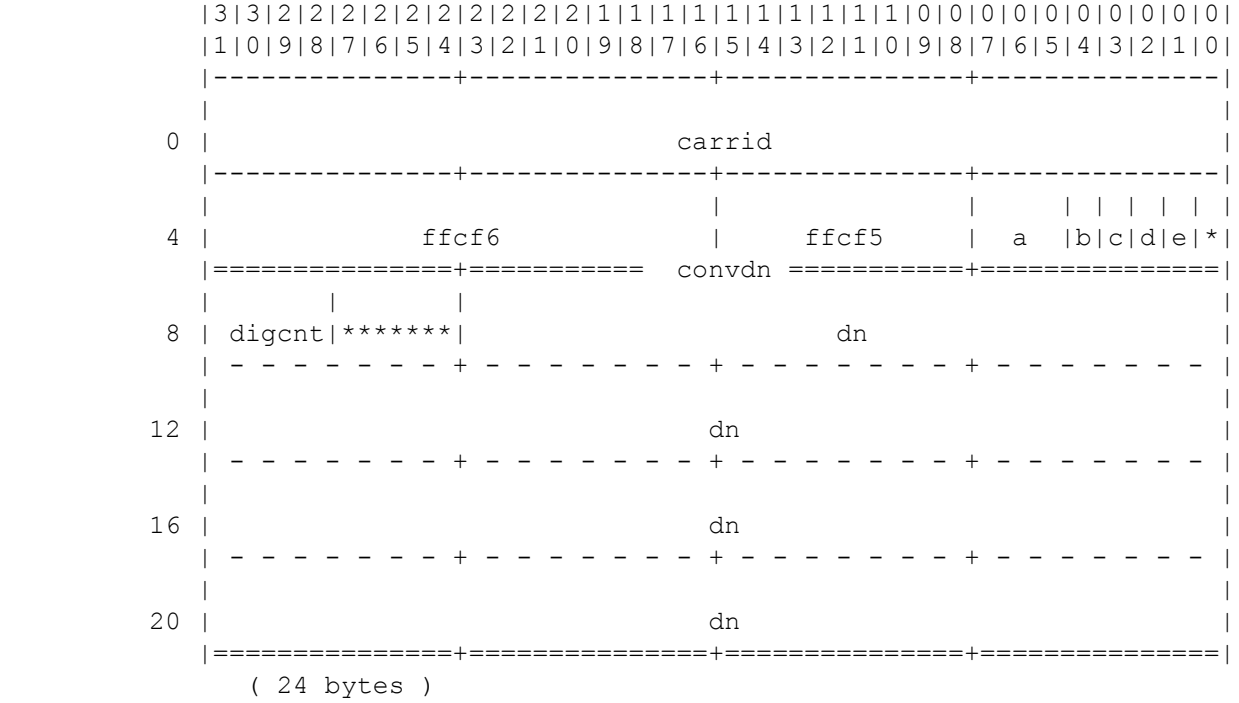
## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3000 |
| expected number of tuples | 500 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| foldtype | DBGC31 |

## 3. Field Layout

```
LSP_CDN     relid = 2812  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     carrid      DMCARRID     (array [ 4 ] of char ) <--- key
     ffcf6       DMUNS16      (ushort)
     ffcf5       DMUNS8       (ushort: 8)
 (a) desttype    DMCALLTYP    (enum: 3) <--- key
 (b) ffcf1       DMBOOL       (enum: 1)
 (c) ffcf2       DMBOOL       (enum: 1)
 (d) ffcf3       DMBOOL       (enum: 1)
 (e) ffcf4       DMBOOL       (enum: 1)
     convdn      DMDN         (struct) <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
```

User Tuple Layout LSP_CDN




( 24 bytes )

```
     carrid      DMCARRID     (array [ 4 ] of char ) <--- key
```

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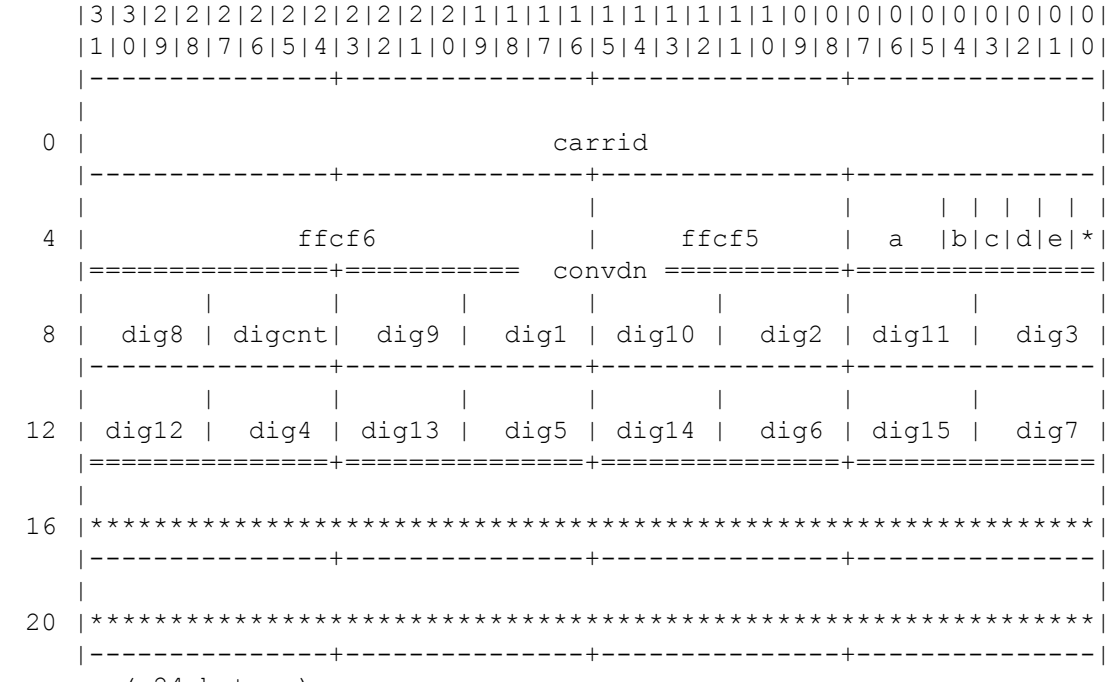
```
    ffcf6       DMUNS16      (ushort)
    ffcf5       DMUNS8       (ushort: 8)
(a) desttype    DMCALLTYP    (enum: 3) <--- key
(b) ffcf1       DMBOOL       (enum: 1)
(c) ffcf2       DMBOOL       (enum: 1)
(d) ffcf3       DMBOOL       (enum: 1)
(e) ffcf4       DMBOOL       (enum: 1)
    convdn      DMCDN        (struct) <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
```

Compacted Tuple Layout LSP_CDN




( 24 bytes )

```
    carrid      DMCARRID     (array [ 4 ] of char ) <--- key
    ffcf6       DMUNS16      (ushort)
    ffcf5       DMUNS8       (ushort: 8)
(a) desttype    DMCALLTYP    (enum: 3) <--- key
(b) ffcf1       DMBOOL       (enum: 1)
(c) ffcf2       DMBOOL       (enum: 1)
```

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```
(d) ffcf3       DMBOOL       (enum: 1)
(e) ffcf4       DMBOOL       (enum: 1)
    convdn      DMCDN        (struct) <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)

          Stored Tuple Layout      LSP_CDN
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                             carrid                            |
   |---------------+---------------+---------------+---------------|
   |                               |               |     | | | | | |
 4 |              ffcf6            |     ffcf5     |  a  |b|c|d|e|*|
   |===============+===========  convdn ===========+===============|
   |       |       |       |       |       |       |       |       |
 8 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
12 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
   |===============+===============+===============+===============|
      ( 16 bytes )
```

## 4. Population rules for RLlsp_cdn

### Relation Description

Alternate local service provider conversion DN
This relation contains the alternate local service provider conversion DN.

**Attribute:**

carrid

**Fullname:**

Carrier id

**Attribute Description:**

This attribute is the intra-LATA local carrier ID.
It must be entered as a 4 digit character string,
where each digit can be '0' thru '9'.

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**Attribute:**
desttype
**Fullname:**
Destination type
**Attribute Description:**
This attribute is the destination type for LOCDA (411), DA ((NPA)-555-1212), REPAIR (611), and BUSOFC (811) calls.

**Attribute:**
convdn
**Fullname:**
Conversion DN
**Attribute Description:**
This attribute is the conversion DN. Code converted DNs can be provisioned on a per PLC carrier basis for the following types of calls: DA (NPA)-555-1212 and BUSOFC 811. This code converted DN can be any valid 15 digit sequence including "800", "900", 611, and 411 type numbers.

**Attribute:**
ffcf1
**Fullname:**
spare bool 1
**Attribute Description:**
Spare Boolean

**Attribute:**
ffcf2
**Fullname:**
spare bool 2
**Attribute Description:**
Spare Boolean

**Attribute:**
ffcf3
**Fullname:**
spare bool 3
**Attribute Description:**
Spare Boolean

**Attribute:**
ffcf4
**Fullname:**
spare bool 4

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**Attribute Description:**
Spare Boolean

**Attribute:**
ffcf5
**Fullname:**
spare uns8
**Attribute Description:**
Spare unsigned short 8

**Attribute:**
ffcf6
**Fullname:**
spare uns16
**Attribute Description:**
Spare unsigned short 16

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# LSSPARE

## 1. Description

This is a spare relation. It was originally created under the name RLserv_dig.G The rules and design for that relation are being preserved in this spare relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| access type | DBACC_CIND |
| l1 length of subkey 1 | 10 |
| p1 position of subkey 1 | 0 |
| l2 length of subkey 2 | 4 |
| p2 position of subkey 2 | 10 |
| ks key store | AUTO |

## 3. Field Layout

```
LSSPARE     relid = 1867  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     serv_id     DMUNS10      (ushort: 10)  <--- key, not stored
     digit       DMUNS4       (ushort: 4)  <--- key, not stored
     action      DMRTETYP     (enum: 4)
         User and Compacted Tuple Layout    LSSPARE
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |       |                                   |
  0 |      serv_id      | digit |***********************************|
    |---------------+---------------+---------------+---------------|
    |       |                                                       |
  4 | action|*******************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     action      DMRTETYP     (enum: 4)
           Stored Tuple Layout      LSSPARE
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |       |                                                       |
  0 | action|*******************************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLlsspare

**Relation Description**
LS spare for service digits.

This relation indicates the action to be taken upon reception of a digit when using an internal ARU for listing services call completion (LSCC). The attributes indicate the action to be taken for the digit entered by the customer. This allows flexibility for the switch administrator in choosing what numbers the customer is allowed to enter. Currently, this is a spare relation and is not supported by Recent Change or ODA.

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The maximum number of tuples is 128 and is based on the maximum number of possible call types (RLctinfo).

**Attribute: serv_id**

**Fullname:** Service ID

**Attribute Description** Service ID for Listing Services call completion.

**Attribute: digit**

**Fullname:** Dialed digit

**Attribute Description** Customer touch tone digit indicating requested action. RC and ODA must allow the keys on the phone pad (0 - 9, *, #) to be valid entries for this field. The pound sign (#) is mapped to the number 10 in the database. The asterisk (*) is mapped to the number 11 in the database.

**Attribute: action**

**Fullname:** action

**Attribute Description** Action to be taken for this service ID and dialed digit.

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# LTM_BFG

## 1. Description

This relation keeps track of all ltm_idxs associated with a bfgid on a per SM basis.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 983040 |
| expected number of tuples | 9058 |
| density | 8 |
| access type | DBACC_DHSH |
| memory type | DBDISK |
| distribution | DO |
| relation type | DBSTATIC |
| foldtype | DBGC31 |

## 3. Field Layout

```
LTM_BFG     relid = 1023  DBSTATIC   DBACC_DHSH  DBDISK    DO      DDBM


     ltm_idx     DMLTM_IDX    (ulong: 16)       <--- key
     nextidx     DMLTM_IDX    (ulong: 16)
     previdx     DMLTM_IDX    (ulong: 16)
     bfgid       DMRCBFGID    (ushort: 12)      <--- key
  (a) type_ltm   DMLTM_TYPE   (enum: 1) <--- key
  (b) nexttype   DMLTM_TYPE   (enum: 1)
  (c) ltm_std    DMBOOL       (enum: 1)
  (d) ltm_tn     DMBOOL       (enum: 1)
     mod         DMMODULE     (ushort: 8)       <--- key
  (e) ltm_dn     DMBOOL       (enum: 1)
  (f) ltm_para   DMBOOL       (enum: 1)
  (g) ltm_parb   DMBOOL       (enum: 1)
  (h) prevtype   DMLTM_TYPE   (enum: 1)
         User, Compacted and Stored Tuple Layout    LTM_BFG
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             ltm_idx           |             nextidx           |
    |---------------+---------------+---------------+---------------|
    |                               |                       | | | | |
  4 |             previdx           |         bfgid         |a|b|c|d|
    |---------------+---------------+---------------+---------------|
    |               | | | | |                                       |
  8 |      mod      |e|f|g|h|***************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population rules for RLltm_bfg

**Relation Description**

```
        Link lists of all ltm indexes which are assigned to specific BFG(s).
```

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```
 This relation holds the ltm_indx of every DN or line assigned to a BFG.
 It is in link list order by bfgid, module number, ltm_type, and ltm_indx.

" * ltm_bfg      Keeps track of global ltm_idxs on a bfgid (BFG groupid).
  *              A global ltm_idx consists of the lead module
  *              mod (module it is located on), type_ltm (logical
  *              termination index type whose value
  *              may be derived from RLdnfeats.ltm_idx), and local
  *              ltm_idx (logical termination index).

  *              This is a linked list relation  used to search
  *              all ltm_idxs associated with a bfgid. This relation
  *              will contain two types of tuple as described
  *              in the following paragraphs.
  *
  *              The first type of tuple is the bfgid master
  *              tuple.  The master tuple will be keyed by a bfgid,
  *              switching module, type_ltm = LTM_OTHER and
  *              ltm_idx = 0. The bfgid master tuple is used as a
  *              starting place to find all of the global ltm_idxs
  *              associated with a bfgid for a given switching module.
  *
  *              The second type of tuple is the one where the
  *              actual data is stored.  These are the tuples
  *              that the master tuples point to.  They are
  *              keyed by the current global ltm_idx and bfgid
  ********************************************************************
  *
  *      The following is an example to help understand the interconnection
  *      between tuples of this relation.
  *
  *      A port portx is represented here as a triple (M,type_ltm,ltm_idx),
  *      where M is the module on which portx resides,
  *      type_ltm & ltm_idx is the global ltm_idx which represents portx.
  *
  *      An RLltm_bfg tuple is represented here as follows:
  *               ------------------------------------
  *               |  mod   |type_ltm|ltm_idx| bfgid  |
  *               ------------------------------------
  *               |nexttype|nextidx|bitflags|prevtype|
  *               ------------------------------------
  *               |previdx|
  *               ---------
  *
  *      Consider 2 ports: port1 (M1, LTM_ISDN, ltm_idx1)
  *                  and   port2 (M2, LTM_OTHER, ltm_idx2).
  *
  *      bfgid ,b1, is assigned to 2 ports: port1 & port2;
  *      The following diagram illustrates the relation RLltm_bfg:
  *
  *
  *            port1                   port2
  *      -------------------------     -------------------------
  *      |M1|LTM_ISDN |ltm_idx1|0 |     |M1|LTM_OTHER|ltm_idx2|0 |
```

```
*      -------------------------       -------------------------
*      |LTM_OTHER|0|0 |LTM_OTHER|      |LTM_OTHER|0| 0|LTM_OTHER|
*      -------------------------       -------------------------
*      |0 |                            |0|
*      ----                            ---
*
*
*      The assignment of bfgid ,b1, to port1 and port2 leads to:
*
*
*      -------------------------           -------------------------
*      |M1|LTM_OTHER|   0    |b1|           |M1|LTM_ISDN |ltm_idx1|b1|
*      -------------------------           -------------------------
*      |LTM_ISDN |ltm_idx1|0|LTM_O          |LTM_OTHER|ltm_idx2|0|LTM_O
*      -------------------------           -------------------------
*      |0 |                                |0 |
*      ----                                ----


*      -------------------------
*      | M1|LTM_OTHER|ltm_idx2|b1|
*      -------------------------
*      |LTM_OTHER|0| 0|LTM_ISDN  |
*      -------------------------
*      |ltm_idx1|
*      ----------
*
*************************************************************************"
```

**Attribute:**
mod
**Fullname:**
module
**Attribute Description:**
Module represents the processor on which this BFG is being used by a specific entity (line, MLHG line, DN, etc).

**Attribute:**
type_ltm
**Fullname:**
type_ltm is the type of logical termination
**Attribute Description:**
type_ltm is either LTM_ISDN if line is ISDN
or LTM_OTHER if line is not ISDN

**Attribute:**
ltm_idx
**Fullname:**
logical termination index
**Attribute Description:**

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ltm_indx identifies a unique logical termination in use on a given processor

**Attribute:**
bfgid
**Fullname:**
brcs feature group identifier
**Attribute Description:**
bfgid represents the existence of a BRCS feature group on the switch

**Attribute:**
nexttype
**Fullname:**
next type (linked on the link list)
**Attribute Description:**
nexttype represents the TYPE_LTM of the next LTM_IDX of the link list for a given BFG.

**Attribute:**
nextidx
**Fullname:**
Next logical index
**Attribute Description:**
Next_indx is the ltm_indx of the next item on the link list.

**Attribute:**
ltm_std
**Fullname:**
Standard LTM
**Attribute Description:**
This attribute is not used.

**Attribute:**
ltm_tn
**Fullname:**
terminal ltm
**Attribute Description:**
this attribute is not used.

**Attribute:**
ltm_dn
**Fullname:**
DN LTM
**Attribute Description:**
This attribute is not used.

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**Attribute:**
ltm_para
**Fullname:**
parameter ltm
**Attribute Description:**
This attribute is not used.

**Attribute:**
ltm_parb
**Fullname:**
parameter b
**Attribute Description:**
This attribute is not used.

**Attribute:**
prevtype
**Fullname:**
previous type_ltm
**Attribute Description:**
The previous TYPE_LTM identifies what kind of entity
is linked previously in this link list.

**Attribute:**
previdx
**Fullname:**
previous ltm_indx
**Attribute Description:**
The previous ltm_indx is the logical termination index of the previous
tuple of this link list.

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# LTM_CLST

## 1. Description

This relation keeps track of all cluster on a port and all ports associated with a cluster.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 983040 |
| expected number of tuples | 4730 |
| density | 6 |
| access type | DBACC_DHSH |
| memory type | DBDISK |
| distribution | DO |
| relation type | DBSTATIC |
| foldtype | DBGC31 |

## 3. Field Layout

```
LTM_CLST    relid = 883   DBSTATIC   DBACC_DHSH  DBDISK    DO      DDBM


     ltm_idx     DMLTM_IDX    (ulong: 16)       <--- key
     nextidx     DMLTM_IDX    (ulong: 16)
     previdx     DMLTM_IDX    (ulong: 16)
     cid         DMFACLUST    (ulong: 10)       <--- key
 (a) ltm_type    DMLTM_TYPE   (enum: 1) <--- key
 (b) nexttype    DMLTM_TYPE   (enum: 1)
 (c) prevtype    DMLTM_TYPE   (enum: 1)
     nextcid     DMFACLUST    (ulong: 10)
     mod         DMMODULE     (ushort: 8)       <--- key
     next_mod    DMMODULE     (ushort: 8)
     prev_mod    DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout   LTM_CLST
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            ltm_idx            |             nextidx           |
    |---------------+---------------+---------------+---------------|
    |                               |                   | | | |     |
  4 |            previdx            |        cid        |a|b|c|*****|
    |---------------+---------------+---------------+---------------|
    |                   |           |               |               |
  8 |      nextcid      |***********|      mod      |    next_mod   |
    |---------------+---------------+---------------+---------------|
    |               |                                               |
 12 |    prev_mod   |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population rules for RLltm_clst

**Relation Description**

```
        logical terminal - cluster assignment
```

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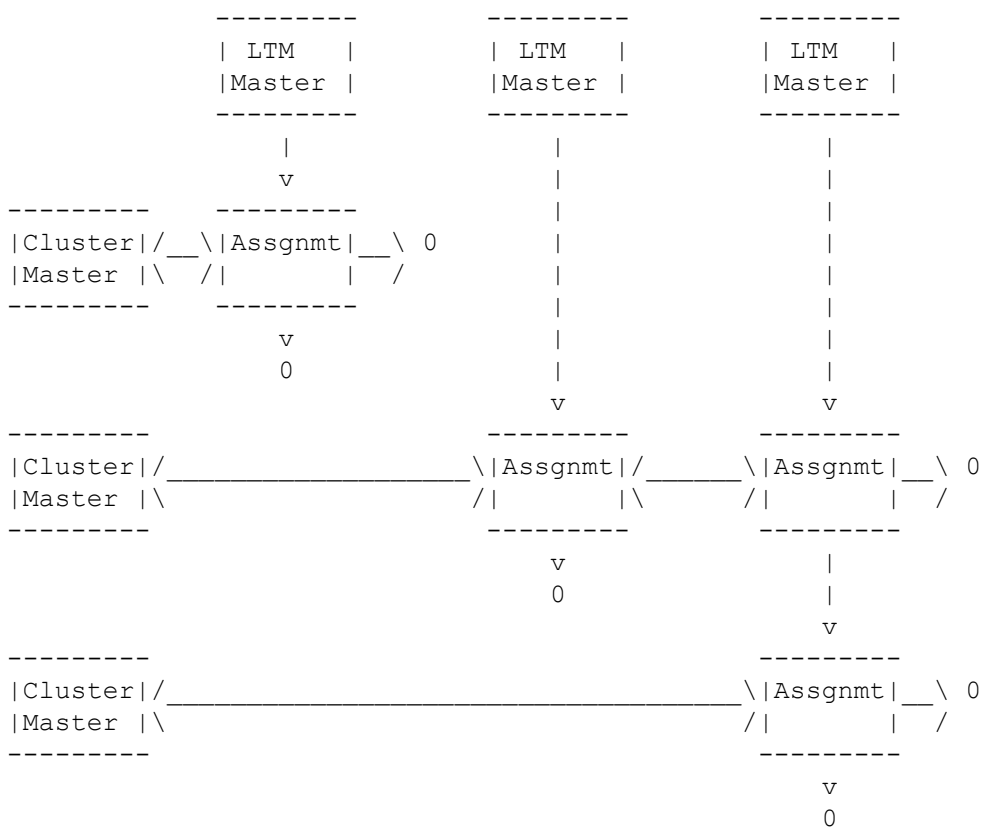
This relation lists the assignments of BRCS feature clusters to logical terminals (LTMs). It may be accessed to test a particular cluster to LTM assignment. Using master tuples, it may also be accessed to find all clusters assigned to an LTM and/or to find all LTMs which have been assigned a cluster.

There are three distinct type of tuples in this relation:

1) The assignment tuple specifies the assignment of the cluster to the LTM, according to the keys of the tuple.
2) The cluster master tuple provides the entry point to find the assignment tuples for all LTMs which are assigned the cluster. The cluster master tuple must exist when the cluster is assigned to any LTM.
3) The LTM master tuple provides the entry point to find the assignment tuples for all clusters assigned to the LTM. The LTM master tuple must exist when any cluster is assigned to the LTM.

The three types of tuples are combined to form a bidirectional linked list of all LTMs which are assigned a cluster, overlaid with a unidirectional linked list of all clusters assigned to an LTM, as shown in the following diagram.




The cluster master tuple is keyed by the cluster ID, with the LTM zeroed. The LTM master tuple is keyed by the LTM with the cluster ID zeroed.

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The RLltm_clst tuple contains 2 cluster IDs and 3 LTM triples (mod, type, idx). One cluster ID (cid) and one LTM (mod, ltm_type, ltm_idx) form the tuple keys. The other cluster ID (nextcid) points to another tuple to indicate the assignment of a different cluster to the LTM. This is an unidirectional linked list. The other LTMs point to other tuples to indicate the assignment of the cluster to different LTMs. A bidirectional linked list is formed with the previous LTM (prev_mod, prevtype, previdx) and the next LTM (next_mod, nexttype, nextidx).

**Attribute:**
mod
**Fullname:**
switching module
**Attribute Description:**
Contains the switching module of the logical terminal (LTM) that is assigned the cluster.

**Attribute:**
ltm_type
**Fullname:**
logical terminal type
**Attribute Description:**
Contains the type of the logical terminal (LTM) that is assigned the cluster.

**Attribute:**
ltm_idx
**Fullname:**
logical terminal index
**Attribute Description:**
Contains the index of the logical terminal (LTM) that is assigned the cluster.

**Attribute:**
cid
**Fullname:**
cluster identifier
**Attribute Description:**
Contains the internal identifier corresponding to the cluster which is assigned to the logical terminal (LTM).

**Attribute:**
next_mod
**Fullname:**
next switching module
**Attribute Description:**
Contains the switching module of the next logical terminal (LTM)

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that is assigned the cluster.

**Attribute:**
nexttype
**Fullname:**
next logical terminal type
**Attribute Description:**
Contains the type of the next logical terminal (LTM) that is assigned the cluster.

**Attribute:**
nextidx
**Fullname:**
next logical terminal index
**Attribute Description:**
Contains the index of the next logical terminal (LTM) that is assigned the cluster.

**Attribute:**
nextcid
**Fullname:**
next cluster identifier
**Attribute Description:**
Contains the internal identifier corresponding to the next cluster which is assigned to the logical terminal (LTM).

**Attribute:**
prev_mod
**Fullname:**
previous switching module
**Attribute Description:**
Contains the switching module of the previous logical terminal (LTM) that is assigned the cluster.

**Attribute:**
prevtype
**Fullname:**
previous logical terminal type
**Attribute Description:**
Contains the type of the previous logical terminal (LTM) that is assigned the cluster.

**Attribute:**
previdx
**Fullname:**
previous logical terminal index
**Attribute Description:**

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Contains the index of the previous logical terminal (LTM) that is assigned the cluster.

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# LTM_PORT

## 1. Description

Analog line or trunk logical termination index to physical port mapping relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65531 |
| expected number of tuples | 1111 |
| density | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
LTM_PORT    relid = 864   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     ltm_idxo    DMLTM_IDX    (ulong: 16)  <--- key, not stored
     port        DMPORT       (ushort)
     party       DMPARTY      (ushort: 4)
         User and Compacted Tuple Layout   LTM_PORT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            ltm_idxo           |*******************************|
    |---------------+---------------+---------------+---------------|
    |                               |       |                       |
  4 |              port             | party |***********************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     port        DMPORT       (ushort)
     party       DMPARTY      (ushort: 4)
           Stored Tuple Layout     LTM_PORT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |       |                       |
  0 |              port             | party |***********************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLltm_port

**Relation Description**
Analogical line or trunk member logical termination index to physical port mapping relation.

Its tuples are to distributed to the same modules as the RLfc_porttyp tuples corresponding to the port attribute value.

See RLrc_qidx.P population rules.

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**Attribute: ltm_idxo**

**Fullname:** logical termination index

**Attribute Description**See RLrt_dntran and RLgroup_port ltm_idx and ltm_type definitions for assignment rules.

```
ltm_idxo = RLrt_dntran.ltm_idx
        for RLrt_dntran.ltm_type = LTM_OTHER
or
ltm_idxo = RLgroup_port.ltm_idx.
        for RLgroup_port.ltm_type = LTM_OTHER
```

**Attribute: port**

**Fullname:** port for this ltm_idxo

**Attribute Description** Same as RLfc_line.port.member or RLfc_trunk.port.member. Indicates the port to which the ltm_idxo is assigned.

**Attribute: party**

**Fullname:** station identifier

**Attribute Description**Same as RLfc_line.party for lines or FCP_TRUNK for trunks.

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# LTSBPORT

## 1. Description

This relation contains the Line Time Slot Bridging (LTSB) port information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 3 |
| trigger function | RTrcltsbpt |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| ks key store | AUTO |

## 3. Field Layout

```
LTSBPORT    relid = 1112  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     lport       DMLPORT      (ushort: 16) <--- key
     asoc_port   DMPORT       (ushort)
     asc_ltmidx  DMLTM_IDX    (ulong: 16)
     asoc_noc    DMNOC        (ushort: 14)
 (a) asc_ltmtype  DMLTM_TYPE   (enum: 1)
 (b) manx_alwd   DMBOOL       (enum: 1)
     asoc_mod    DMMODULE     (ushort: 8)
 (c) asc_dig4    DMBCD        (ushort: 4)
 (d) asc_dig3    DMBCD        (ushort: 4)
 (e) asc_dig2    DMBCD        (ushort: 4)
 (f) asc_dig1    DMBCD        (ushort: 4)
 (g) lead_line   DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   LTSBPORT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                |                               |
 0 |             lport              |           asoc_port           |
   |---------------+---------------+---------------+---------------|
   |                                |                           | | |
 4 |           asc_ltmidx           |          asoc_noc         |a|b|
   |---------------+---------------+---------------+---------------|
   |               |       |       |       |       | |             |
 8 |    asoc_mod   |   c   |   d   |   e   |   f   |g|*************|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population rules for RLltsbport

### Relation Description

```
Line Time Slot Bridging Port Relation

Contains all LTSB Port Specific Information
```

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RLltsbport supports both 1 TN and 2 TN Line Time Slot Bridging port tuples. For both the 1 TN and 2 TN cases one port is considered the lead port and the other is not. This is denoted by the lead_line attribute in RLltsbport. The ports for both 1 TN and 2 TN may exist on the same SM or each may be on a separate SM. RLfc_line and also RLfc_porttyp tuples exist for each port and are populated on the individual SM of each port. 1 TN LTSB will have 1 RLrt_dntran tuple populated on the routing SM of the TN. 2 TN LTSB will have 2 RLrt_dntran tuples each populated on the routing SM for their TN. RLltsbport also supports the Intraswitch Analog Line Transfer (IALT) feature. IALT is similar to 1-TN LTSB in that 2 ports are associated with 1 TN where one port is considered the lead port. The two ports may be on the same SM or may be on two different SMs. The population of RLfc_line and RLrt_dntran are identical for IALT and LTSB. The distinguishing piece of data is a bit in RLfc_porttyp (ialt_act). If this bit is Y, it is an IALT line, otherwise it is LTSB. The assignment of IALT and LTSB are mutually exclusive.

Multiple Directory Numbers (multidn) are allowed for IALT and 1 TN LTSB. Multidn is not allowed for 2 TN LTSB.
INWATS is not allowed for IALT.
All BRCS feature types are supported with IALT. BRCS data is duplicated on both ports. The population of the port data for terminal features is the same as the population described below for RLtrmfeats for LTSB lines.

The following Line features are allowed on 1 TN LTSB: Multi Line Hunt Group, Direct Connect, and Series Completion with restrictions as follows:

MLHG:
- 1 TN LTSB:
  One RLfc_porttyp tuple is defined for each port and fc_porttyp.hunt is set to DBYES for the lead line and DBNO for the non-lead line.
- 2 TN LTSB - Invalid for MLHG

Series Completion:
- 1 TN LTSB:
  One RLscm_nscm tuple is defined for the lead line and not defined for the non-lead line.
- 2 TN LTSB - Invalid for Series Completion.

Direct Connect:
- 1 TN LTSB:
  One RLfc_porttyp tuple is defined for each port and fc_porttyp.nodial is set to FCND_DIRCON
- 2 TN LTSB - Invalid for Direct Connect.

The DN features will also need to be associated with both ports and the rules for data population in RLdn_feats and the feature specific relations are as follows:

If both ports are on the same SM, there is one tuple on the SM keyed by the ltm_idx of the lead port. If the two ports are

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```
not on the same SM,  there is one tuple on the lead SM which
is keyed by the ltm_idx of the lead port and one tuple on the SM
of the non-lead port which is also keyed by the ltm_idx of the
lead port.
However, for LASS features, the feature specific data is kept on
the lead SM only.
The following BRCS features are supported on LTSB ports
with certain restrictions as follows:

DN Features:
  The following DN features are supported on LTSB: Call Forwarding,
  Message Service System, Incoming Line Identification, Calling Name
  Display, Distinctive Ringing, Terminal Group Station Restriction
  LASS (SCA, SCF, SCR and SDA) and Bulk Calling Line Identification.
  DN features are populated in RLdn_feats and the specific feature
  relations as described below. The distribution depends on whether
  the two ports reside on the same SM or each on a separate SM.
  Refer to specific rules:
  RLdn_feats:  1 TN LTSB where both ports are defined on same SM:
                 One RLdn_feats tuple is populated on the SM and is
                 used for both ports.
               1 TN LTSB where ports are defined on separate SMs:
                 RLdn_feats is populated on both SMs with the port
                 information (module, ltm_idx) of the lead port.
               2 TN LTSB - Invalid for DN features.
  MFCFW:  Features must exist in RLcf_cf with fwd_cndtn = CFN_BSYIDL,
          CFN_BUSY or CFN_IDLE.
          1 TN CFW where both ports are defined on same SM:
            One RLcf_ltm tuple is populated on the SM and is
            used for both ports.
          1 TN CFW where ports are defined on separate SMs:
            RLcf_ltm is populated on both SMs with the port
            information (module, ltm_idx) of the lead port.
          2 TN CFW - Invalid for DN features.
  MFSCA:  Features must exist in RLlsf_cf.
          1 TN LASS SCA where both ports are defined on same SM:
            One RLsca_ltm tuple is populated on the SM and is
            accessible only by the lead port.
          1 TN LASS SCA where ports are defined on separate SMs:
            RLsca_ltm is populated only on the SM of the lead
            module (RLltsbport.lead_line = DBYES ) with the port
            information (module, ltm_idx) of the lead port.
          2 TN LASS SCA - Invalid for DN features.
  MFSCF:  Features must exist in RLlsf_cf.
          1 TN LASS SCF where both ports are defined on same SM:
            One RLscf_ltm tuple is populated on the SM and is
            accessible only by the lead port.
          1 TN LASS SCF where ports are defined on separate SMs:
            RLscf_ltm is populated only on the SM of the lead
            module (RLltsbport.lead_line = DBYES ) with the port
            information (module, ltm_idx) of the lead port.
          2 TN LASS SCF - Invalid for DN features.
  MFSCR:  Features must exist in RLlsf_cf.
          1 TN LASS SCR where both ports are defined on same SM:
```

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```
          One RLscr_ltm tuple is populated on the SM and is
          accessible only by the lead port.
        1 TN LASS SCR where ports are defined on separate SMs:
          RLscr_ltm is populated only on the SM of the lead
          module (RLltsbport.lead_line = DBYES ) with the port
          information (module, ltm_idx) of the lead port.
        2 TN LASS SCR - Invalid for DN features.
MFSDA:  Features must exist in RLlsf_cf.
        1 TN LASS SDA where both ports are defined on same SM:
          One RLsda_ltm tuple is populated on the SM and is
          accessible only by the lead port.
        1 TN LASS SDA where ports are defined on separate SMs:
          RLsda_ltm is populated only on the SM of the lead
          module (RLltsbport.lead_line = DBYES ) with the port
          information (module, ltm_idx) of the lead port.
        2 TN LASS SDA - Invalid for DN features.
MFTGR:  Features must exist in RLtg_cf
        1 TN TGR where both ports are defined on same SM:
          One RLtgltm tuple is populated on the SM and is
          used for both ports.
        1 TN TGR where ports are defined on separate SMs:
          RLtgltm is populated on both SMs with the port
          information (module, ltm_idx) of the lead port.
        2 TN TGR - Invalid for DN features.
MFDR:   Features must exist in RLdr_cf
        1 TN DR where both ports are defined on same SM:
          One RLdr_ltm tuple is populated on the SM and is
          used for both ports.
        1 TN DR where ports are defined on separate SMs:
          RLdr_ltm is populated on both SMs with the port
          information (module, ltm_idx) of the lead port.
        2 TN DR - Invalid for DN features.
MFBCL:  Features must exist in RLbcl_cf
        1 TN BCL where both ports are defined on same SM:
          One RLbcl_ltm tuple is populated on the SM and is
          accessible only by the lead port.
        1 TN BCL where ports are defined on separate SMs:
          RLbcl_ltm is populated only on the SM of the lead
          module (RLltsbport.lead_line = DBYES ) with the port
          information (module, ltm_idx) of the lead port.
        2 TN BCL - Invalid for DN features.
MFMDS:  Features must exist in RLmds_opts.
        1 TN MSS where both ports are defined on same SM:
          One RLmds_port tuple is populated on the SM and is
          used for both ports.
        1 TN MSS where ports are defined on separate SMs:
          RLmds_port is populated on both SMs with the port
          information (module, ltm_idx) of the lead port.
        2 TN MSS - Invalid for DN features.
MFLID:  Features must exist in  RLlid_cf with .cnd_prim
        or cnd_all or cnam set to DBYES.
        1 TN LID where both ports are defined on same SM:
          One RLiclididx tuple is populated on the SM and is
          accessible only by the lead port.
```

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```
          1 TN LID where ports are defined on separate SMs:
            RLiclididx is populated only on the SM of the lead
            module (RLltsbport.lead_line = DBYES ) with the port
            information (module, ltm_idx) of the lead port.
          2 TN LID - Invalid for DN features.
Terminal Features:
  The following Terminal features are supported on LTSB: LASS
  Automatic Callback, LASS Automatic Recall, Call Waiting
  Terminating, Call Waiting Originating, Dial Call Waiting, Caller ID
  on Call Waiting, Private Facilities Access, Individualized Dial Plan,
  Customer Originated Trace, Message Detail Recording and Directory
  Number Privacy, one and two digit Speed Calling, Multiway Calling,
  Account Codes, Authorization codes, Automatic Route Selection,
  Call Waiting Deluxe, Time of Day, and Advanced Services Interface
  (ASI) Proxy.
  Terminal features are populated in RLtrmfeats and the specific
  feature relations described below.  Terminal features have normal
  distribution for LTSB ports. All the stated features are available
  on 1 TN LTSB whereas only un-shared Speed Calling is valid for
  2 TN LTSB.
  Refer to specific rules:
  RLtrmfeats:  1 TN LTSB where both ports are defined on same SM:
                 Two RLtrmfeats tuples are populated on the SM each
                 having the port information of the individual ports.
                 Each tuple is used for the individual port.
               1 TN LTSB where ports are defined on separate SMs:
                 RLtrmfeats is populated on both SMs with the port
                 information for each individual port populated
                 on that SM.
               2 TN LTSB - RLtrmfeats populated the same as 1 TN LTSB
                 for ports defined on separate SMs.
  MFAC:  Features assigned to the ports must exist in RLac_cf.
         RLcw_port will be populated with the same rules as RLtrmfeats.
         LASS Automatic Callback features are NOT valid for 2 TN LTSB.
  MFAR:  Features assigned to the ports must exist in RLcw_cf.
         RLcw_port will be populated with the same rules as RLtrmfeats.
         LASS Automatic Recall features are NOT valid for 2 TN LTSB.
  MFCWT: Features assigned to the ports must exist in RLcw_cf.
         RLcw_port will be populated with the same rules as RLtrmfeats.
         Call Waiting features are NOT valid for 2 TN LTSB.
  MFMWY: Features assigned to the ports must exist in RLmwcf.
         RLmwport will be populated with the same rules as RLtrmfeats.
         Multiway features are NOT valid for 2 TN LTSB.
  MFSC:  Features assigned to the port(s) must exist in RLsc_cf.
         RLsc_port will be populated with the same rules as RLtrmfeats.
         1 TN speed call lists MUST be shared for both ports.
         2 TN speed call lists MAY NOT be shared between the ports."
  MFDISP:Features assigned to the ports must exist in RLdisp_cf.
         Directory Number Privacy (per call only) is not valid
         for 2 TN LTSB.
  MFCOT: Features assigned to the port(s) must exist in RLcot_cf.
         cot_alw bit in RLfc_line must be set to DBYES.
  MFMDR: Features assigned to the ports must exist in RLmdr_cf
         RLmdr_port will be populated with the same rules as
```

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RLtrmfeats. Message Detailed Recording feature is NOT valid for 2 TN LTSB.

MFID: Features assigned to the ports must exist in RLid_cf RLid_port will be populated with the same rules as RLtrmfeats. Individualized Dialing Plan features are NOT valid for 2 TN LTSB.

MFPFA: A tuple must exist in RLpf_port. RLpf_port will be populated with the same rules as RLtrmfeats. Private Facility Access features are NOT valid for 2 TN LTSB.

MFTOD: Features assigned to the ports must exist in RLtd_sched. RLtd_sched will be populated with the same rules as RLtrmfeats. Time of Day feature is NOT valid for 2 TN LTSB.

MFASI: Features assigned to the ports must exist in RLasi_cf. RLasi_port will be populated with the same rules as RLtrmfeats. Advanced Service Interface feature is NOT valid for 2 TN LTSB.

MFACCT:Features assigned to the ports must exist in RLacct_cf. RLacct_prt will be populated with the same rules as RLtrmfeats. Account Codes feature is NOT valid for 2 TN LTSB.

MFARS: Features assigned to the ports must exist in RLarcf. RLarport will be populated with the same rules as RLtrmfeats. Automatic Route Selection feature is NOT valid for 2 TN LTSB.

MFATH: Features assigned to the ports must exist in RLath_cf. RLath_prt will be populated with the same rules as RLtrmfeats. Authorization Codes feature is NOT valid for 2 TN LTSB.

**Attribute:**
lport
**Fullname:**
LTSB lport
**Attribute Description:**
Key is the line's lport

**Attribute:**
asoc_port
**Fullname:**
Associate LTSB port
**Attribute Description:**
Attribute points to Associate Line's Port

**Attribute:**
asoc_mod
**Fullname:**
Associate LTSB module
**Attribute Description:**
Attribute points to Associate Line's Module

**Attribute:**
asoc_noc

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**Fullname:**
Associate LTSB Normalized Office Code
**Attribute Description:**
Attribute points to the Associate Line's NOC

**Attribute:**
asc_dig4
**Fullname:**
Associate LTSB Local 4 Digit Number
**Attribute Description:**
Attribute Represents one of the Associate line's digits

**Attribute:**
asc_dig3
**Fullname:**
Associate LTSB Local 4 digit number
**Attribute Description:**
Attribute Represents one of the Associate line's Digits

**Attribute:**
asc_dig2
**Fullname:**
Associate LTSB local 4 digit number
**Attribute Description:**
Attribute represents one of hte Associate line's Digits

**Attribute:**
asc_dig1
**Fullname:**
Associate LTSB Local 4 digit number
**Attribute Description:**
Attribute represents one of the Associate Line's digits

**Attribute:**
asc_ltmtype
**Fullname:**
LTSB Associate LTM type
**Attribute Description:**
This attribute represents the LTM type of the Associate LTSB line

**Attribute:**
asc_ltmidx
**Fullname:**
LTSB associate LTM index
**Attribute Description:**
This attribute represents the LTM index of the associate LTSB line

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**Attribute:**
manx_alwd
**Fullname:**
Manual Exclusion Allow Indicator
**Attribute Description:**
This attribute Indicates if Manual Exclusion is allowed on the LTSB line

**Attribute:**
lead_line
**Fullname:**
LTSB lead line Indicator
**Attribute Description:**
Indicates if this port is the lead line

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# LUWAVG

## 1. Description

LU weighted average measurements.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| expected number of tuples | 140 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | EADAS |
| relation type | DBSTATIC |
| head table size | 1024 |
| data page size | 512 |
| page level | 2 |
| ks key store option | DBNO |

## 3. Field Layout

```
LUWAVG      relid = 298   DBSTATIC   DBACC_CIND  DBPRAM    LP      EADAS
     lunum       DMCMPID      (struct)  <--- key, not stored
         pcrid       DMMODULE     (ushort: 8)
         lu          DMUCHAR      (uchar)
     luwavg      DMAVERAGE    (long)
         User and Compacted Tuple Layout     LUWAVG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============ lunum ============+===============|
    |               |               |                                 |
  0 |     pcrid     |       lu      |*********************************|
    |===============+===============+===============+===============|
    |                                                                 |
  4 |                              luwavg                             |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     luwavg      DMAVERAGE    (long)
           Stored Tuple Layout   LUWAVG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  0 |                              luwavg                             |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLluwavg

**Relation Description**
LU weighted average measurements.

The RLluwavg relation stores the weighted average measurement data for each LU component, and contains one tuple per LU. The value of the weighted average measurement data in this relation are between 0 and 65000, which is the amount of LU usage in hundred call seconds (CCS). When the Craft enters or verifies the data, that value can be in Erlangs times 1000, or CCS. The value of the global parameter Glmsusgtyp is checked to find if

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the unit of measurement is in Erlang or CCS. If the unit if measurement is Erlang then the weighted average measurement data in the base relation will be converted from CCS, and displayed in Erlangs times 1000.

Information concerning this section is not available at this time.

**Attribute: lunum**

**Fullname:** LU identifier - IM#,

**Attribute Description** Lunum corresponds to each operational line unit within a particular RSM or IM.

**Attribute: lunum.pcrid**

**Fullname:** process id

**Attribute Description** Information concerning this section is not available at this time.

**Attribute: lunum.lu**

**Fullname:** lint unit

**Attribute Description** Information concerning this section is not available at this time.

**Attribute: luwavg**

**Fullname:** LU weighted average

**Attribute Description** Information concerning this section is not available at this time.

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## 2.13 RELATIONS: M

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# MASK_BLF

## 1. Description

Busy lamp field mask.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 78750 |
| expected number of tuples | 12 |
| density | 29 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
MASK_BLF    relid = 935   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     hgid        DMHGID       (ulong: 22)     <--- key
     isat_idx    DMISATGRP    (ushort: 6)     <--- key
     dnmask1     DMDNSTAT     (uchar)
     dnmask2     DMDNSTAT     (uchar)
     dnmask3     DMDNSTAT     (uchar)
     dnmask4     DMDNSTAT     (uchar)
     dnmask5     DMDNSTAT     (uchar)
     dnmask6     DMDNSTAT     (uchar)
     dnmask7     DMDNSTAT     (uchar)
     dnmask8     DMDNSTAT     (uchar)
     dnmask9     DMDNSTAT     (uchar)
     dnmask10    DMDNSTAT     (uchar)
     dnmask11    DMDNSTAT     (uchar)
     dnmask12    DMDNSTAT     (uchar)
     dnmask13    DMDNSTAT     (uchar)
         User, Compacted and Stored Tuple Layout   MASK_BLF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |           |       |
  0 |                     hgid                      |  isat_idx |*******|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |    dnmask1    |    dnmask2    |    dnmask3    |    dnmask4    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  8 |    dnmask5    |    dnmask6    |    dnmask7    |    dnmask8    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 12 |    dnmask9    |    dnmask10   |    dnmask11   |    dnmask12   |
    |---------------+---------------+---------------+---------------|
    |               |                                               |
 16 |    dnmask13   |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

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```
domain alMASK_BLF struct  (3 sub-attributes)
         hgid        .2.fake      (ulong: 22)
         isat_idx    .3.fake      (ushort: 6)
         dnmask      .4.fake      (array [ 13 ] of unsigned char )

         Structure Layout      alMASK_BLF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |           |       |
  0 |                    hgid                       |  isat_idx |*******|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                              dnmask                           |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                              dnmask                           |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                              dnmask                           |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |               |                                               |
 16 |     dnmask    |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population Rules for RLmask_blf

**Relation Description:** Busy lamp field mask.

There will be one tuple in this relation for each 100s group that has at least one member associated with an ISAT group and is Busy Lamp Field (BLF) monitorable by the ISAT group, that is:

```
RLfc_line.busymon = DBYES
OR
RLis_line.busymon = DBYES
OR
RLrt_mhg.monitor = DBYES
```

NOTE: PRL check for these dependencies are in the PRL files RLfc_line, RLis_line and RLrt_mhg.

A TN may be associated with and monitored by only one ISAT group, however, each TN within a 100s group may be associated with and monitored by a different ISAT group. So, for each ISAT group, that is associated with a member of a 100s group that is made busy monitorable, there should exist a RLmask_blf tuple. The mask is used to mask out TNs that should not be busy monitorable by the designated ISDN Attendant group.

***NOTE:*** TNs with the following types of servclass;

```
RLfc_porttyp.servclass = FC_ISATND
RLfc_porttyp.servclass = FC_ATTENDANT
```

May not be associated with and busy monitored by an ISDN attendant(ISAT) Multiline Hunt Group.

**Attribute: hgid**

**Fullname:** 100s group identifier

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**Attribute Description** hundred group identifier in hex with three sub-fields:

```
noc     normalized office code         Range: 0 - 250
d4      thousand weighted digit         Range: 0 - 9
d3      hundred weighted digit         Range: 0 - 9
example : TN=2204321
          noc = 118(0x76)    shift  2 left = 0x7600
           d4 = 4  (0x04)    shift 1 left  = 0x0040
           d3 = 3  (0x03)
        hgid = 0x7600 + 0x0040 + 0x0003
             = 0x7643
             = 7643 <== IN HEX
CALCULATING THE 'hgid':
----------------------
For example:
```

For RLfc_line entries:

For every RLis_line tuple where RLis_line.primary = DBYES, there exists a corresponding RLfc_line tuple. For every RLis_line tuple where RLis_line.primary = DBNO, refer to the next section for RLis_line tuples.

```
If DN# 220-4321 has its 'busymon' attribute set to DBYES.
then read RLnoccode to convert nxx to noc;
     RLnoccode.nxx = 220 (Office Code)
     RLnoccode.noc = 118 (Normalized  Office Code)
For the DN# 220-4321:
     118 = noc
       4 = digit4 (d4)
       3 =  digit3 (d3)
       2 = digit2 (d2)
       1 = digit1 (d1)
The 'noc', 'd4', and 'd3' will be used to determine the RLmask_blf.hgid
key value to access the appropriate RLmask_blf.
       noc = 118(0x76)
             shift 2 left = 0x7600
       d4 = 4  (0x04)
             shift 1 left = 0x0040
       d3 = 3  (0x03)
     hgid = 0x7600 + 0x0040 + 0x0003
          = 0x7643
          = 7643 <== IN HEX
```

The 'd2' and 'd1' will be used to determine the appropriate bit to be set in RLmask_blf.dnmask. Setting the bit to '1' means 'busymon' equals DBYES. Setting the bit to '0' means 'busymon' equals DBNO.

For the DN# 220-4321: the following bit would be set;

```
Hundred digit number
    dnmask3
        23 22 21 20 19 18 17 16
       ------------------------
       |  |  | 1|  |  |  |  |  |
       ------------------------
      RLmask_blf.dnmask3 = 0x20
```

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For RLis_line entries where RLis_line.primary = DBNO (Secondary Only):

```
For every RLis_line tuple where RLis_line.primary = DBYES,
there exists a corresponding RLfc_line tuple.  So,
for every RLis_line  tuple where RLis_line.primary = DBYES,
refer to the previous section  for RLfc_line tuples.

If DN# 220-4321 has its 'busymon' attribute set to DBYES.
then read RLnoccode to convert nxx to noc;
      RLnoccode.nxx = 220 Office Code)
      RLnoccode.noc  = 118 (Normalized Office Code)
For the DN# 220-4321:
       118 = noc
         4 =  digit4 (d4)
         3 = digit3  (d3)
         2 = digit2 (d2)
         1 = digit1 (d1)
The 'noc', 'd4', and 'd3' will be used to determine
the  RLmask_blf.hgid key value to access the appropriate
RLmask_blf tuple.
       noc = 118(0x76)
             shift 2 left = 0x7600
       d4 = 4  (0x04)
             shift 1 left = 0x0040
       d3 = 3  (0x03)
     hgid = 0x7600 + 0x0040 + 0x0003
          = 0x7643
          = 7643 <== IN HEX
```

The 'd2' and 'd1' will be used to determine the appropriate bit to be set in RLmask_blf.dnmask. Setting the bit to '1' means 'busymon' equals DBYES. Setting the bit to '0' means 'busymon' equals DBNO.

For the DN# 220-4321: the following bit would be set;

```
Hundred digit number
    dnmask3

             23 22 21 20 19 18 17 16
            _________________________
            |  |  | 1|  |  |  |  |  |
            -------------------------
            RLmask_blf.dnmask3 = 0x20
```

For RLrt_mhg entries where RLrt_mhg.monitor = DBYES:

```
            RLrt_mhg.monitor = DBYES,
            RLrt_mhg.grp_noc =  118 (76 in hex), and
            RLrt_mhg.grp_loc = 9854,
                          9 = digit4 (d4)
                          8 = digit3 (d3)
                          5 = digit2 (d2)
                          4 = digit1  (d1)
```

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then 'RLrt_mhg.grp_noc', and 'd4', 'd3' of RLrt_mhg.grp_loc will be used to determine the RLmask_blf.hgid key value to access the appropriate RLmask_blf tuple.

```
RLrt_mhg.grp_noc = 118(0x76)
shift 2 left     = 0x7600
             d4 = 9  (0x09)
shift 1 left     = 0x0090
             d3 = 8  (0x08)
hgid = 0x7600 + 0x0090 + 0x0008
     = 0x7698
     = 7698 <== IN HEX
```

The 'd2' and 'd1' will be used to determine the appropriate bit to be set in RLmask_blf.dnmask. Setting the bit to '1' means 'monitor' equals DBYES. Setting the bit to '0' means 'monitor' equals DBNO.

For RLrt_mhg.grp_loc = 9854: the following bit should be set;

```
Hundred digit number
         dnmask7
              55 54  53 52 51 50 49 48
             _________________________
             |  | 1|   |  |  |  |  | |
             -------------------------
             RLmask_blf.dnmask7 = 0x40
```

**Attribute: isat_idx Fullname:** ISDN attendant console index

**Attribute Description** the ISDN attendant group index

This tuple should only be populated if there is a RLrt_mhg tuple keyed by some grpnum where; RLrt_mhg.htype = RTH_ISAT RLrt_mhg.isat_idx != 0

and there is an existing tuple in RLisatgrp; RLisatgrp.isat_idx = RLrt_mhg.isat_idx

in the SM indicated by the RLrt_mhg.module (hunting SM for the ISAT group).

**Attribute: dnmask1 Fullname:** hundred digit number

**Attribute Description** first byte of 100s group mask, 8 bits, each bit with '0' denoting DN not busy monitorable, each bit with '1' denoting DN is busy monitorable.

```
Hundred digit number
      1st byte   07 06 05 04 03 02 01 00
                 _________________________
                 |  |  |  |  |  |  |  |  |
                 -------------------------
```

```
Example:
If the following TN's are busy monitorable by an ISAT;
          2208000           2208001           2208002
then the following bits would be set;
Hundred digit number
         1st byte  07 06 05 04 03 02  01  00
```

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```
                    _____________________________
                   |  |  |  |  |  | 1 | 1 | 1 |
                   ----------------------------
and the following hex value would be populated:
dnmask1 = 7  <== IN HEX
```

**Attribute: dnmask[*] Fullname:** hundred digit number

**Attribute Description**

```
dnmask2            Hundred digit number         2nd byte
                15 14 13 12 11 10 09 08

                _________________________
               |  |  |  |  |  |  |  |  |
               -------------------------
dnmask3            Hundred digit number         3rd byte
                23 22 21 20 19 18 17 16

               _________________________
               |  |  |  |  |  |  |  |  |
               -------------------------
dnmask4            Hundred digit number         4th byte
                31 30 29 28 27 26 25 24

               _________________________
               |  |  |  |  |  |  |  |  |
               -------------------------
dnmask5            Hundred digit number         5th byte
                39 38 37 36 35 34 33 32

               _________________________
               |  |  |  |  |  |  |  |  |
               -------------------------
dnmask6            Hundred digit number         6th byte
                47 46 45 44 43 42 41 40

               _________________________
               |  |  |  |  |  |  |  |  |
               -------------------------
dnmask7            Hundred digit number         7th byte
                55 54 53 52 51 50 49 48

               _________________________
               |  |  |  |  |  |  |  |  |
               -------------------------
dnmask8            Hundred digit number         8th byte
                63 62 61 60 59 58 57 56

               _________________________
               |  |  |  |  |  |  |  |  |
               -------------------------
dnmask9            Hundred digit number         9th byte
                71 70 69 68 67 66 65 64

               _________________________
               |  |  |  |  |  |  |  |  |
               -------------------------
dnmask10           Hundred digit number         10th byte
                79 78 77 76 75 74 73 72

               _________________________
               |  |  |  |  |  |  |  |  |
```

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```
                 -------------------------
dnmask11              Hundred digit number         11th byte
                  87 86 85 84 83 82 81 80

                 _________________________
                 |  |  |  |  |  |  |  |  |
                 -------------------------
dnmask12              Hundred digit number         12th byte
                  95 94 93 92 91 90 89 88

                 _________________________
                 |  |  |  |  |  |  |  |  |
                 -------------------------
dnmask13              Hundred digit number         13th byte
                   *  *  *  * 99 98 97 96

                 _________________________
                 | 0| 0| 0| 0|  |  |  |  |
                 -------------------------
                 * - indicates the unused bits which are
                     padded by '0's.
```

Each bit with '0' indicates a TN that the given ISAT group may not busy monitor.

Each bit with '1' indicates a TN that the given ISAT group may busy monitor.

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# MASKS_G

## 1. Description

This is the child storage relation for the RLipintcnf.G and the RLpcrtoip.G virtual update relations.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 18 |
| expected tuples | 3 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTORAGE |
| ks key store | AUTO |
| foldtype | DBGC31 |
| gkidxrel reverse index | rlMASKS_I |

## 3. Field Layout

```
MASKS_G     relid = 3155  DBSTORAGE  DBACC_GK    DBPRAM    FR      NULL


     gkMASKS_G   DMGK14       (ulong: 14)       <--- key, not stored
     subnet_mask  DMULONG      (ulong)
         User and Compacted Tuple Layout    MASKS_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|         gkMASKS_G             |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  4 |                           subnet_mask                           |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )


     subnet_mask  DMULONG      (ulong)
           Stored Tuple Layout      MASKS_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  0 |                         GK LINK FIELD                           |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  4 |                           subnet_mask                           |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLmasks_g

### Relation Description

There are no population rules for this relation.

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# MATATT

## 1. Description

Mate attributes - Relation containing information about other modules in the same multimodule RSM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 9 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| trigger function | CMmatatttrg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
MATATT      relid = 584   DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL
     mate        DMMODULE     (ushort: 8)     <--- key
 (a) cl_offset   DMUNS4       (ushort: 4)
     num_icls    DMUNS5       (ushort: 5)
     cdfi0       DMCIRCUIT    (ushort)
     cdfi1       DMCIRCUIT    (ushort)
     cdfi2       DMCIRCUIT    (ushort)
     cdfi3       DMCIRCUIT    (ushort)
     cdfi4       DMCIRCUIT    (ushort)
     cdfi5       DMCIRCUIT    (ushort)
     cdfi6       DMCIRCUIT    (ushort)
     cdfi7       DMCIRCUIT    (ushort)
     cdfi8       DMCIRCUIT    (ushort)
     cdfi9       DMCIRCUIT    (ushort)
     cdfi10      DMCIRCUIT    (ushort)
     cdfi11      DMCIRCUIT    (ushort)
     cdfi12      DMCIRCUIT    (ushort)
     cdfi13      DMCIRCUIT    (ushort)
     cdfi14      DMCIRCUIT    (ushort)
     cdfi15      DMCIRCUIT    (ushort)
     cdfi16      DMCIRCUIT    (ushort)
     cdfi17      DMCIRCUIT    (ushort)
         User, Compacted and Stored Tuple Layout MATATT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |       |       |         |                     |
  0 |      mate     |   a   |*******| num_icls|*********************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             cdfi0             |             cdfi1             |
    |---------------+---------------+---------------+---------------|
```

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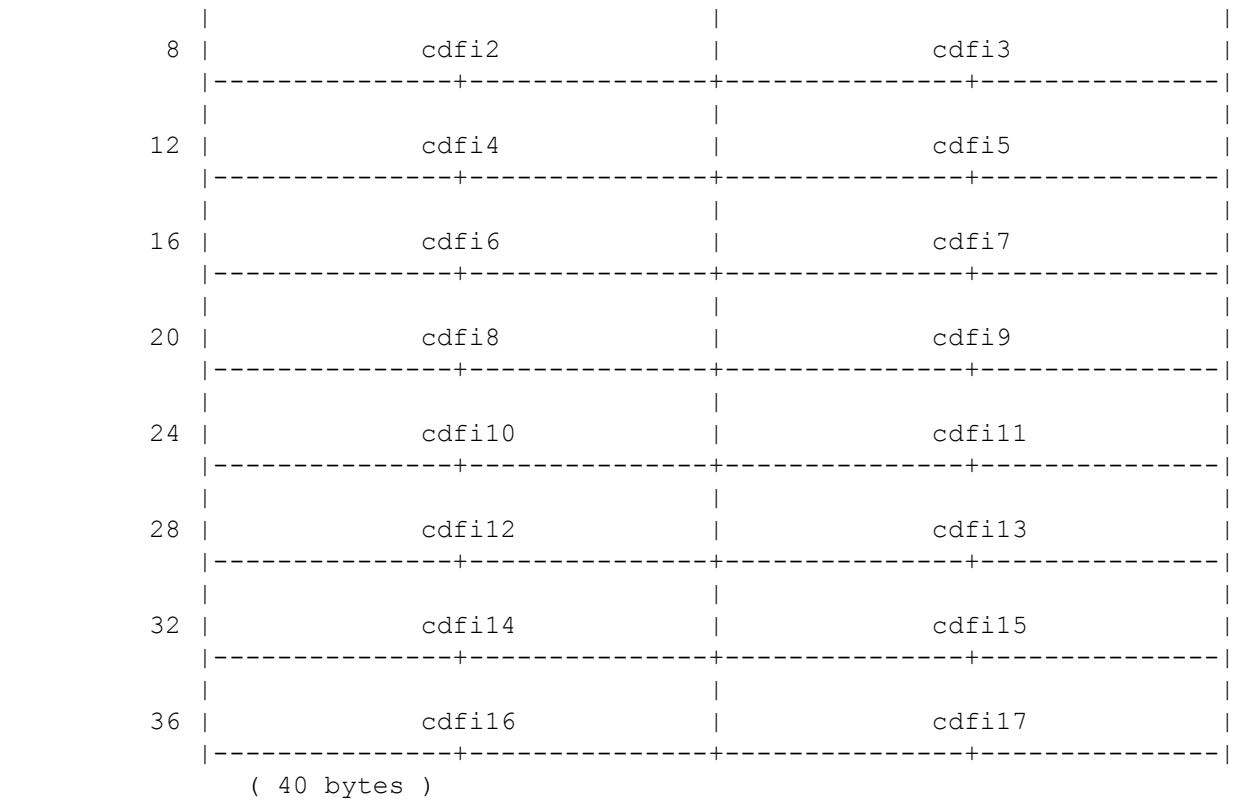


## 4. Population Rules for RLmatatt

**Relation Description:** mate attributes

Mate attributes - Relation containing information about other modules in the same multimodule RSM.

This relation gives information about mate RSMs in the same multimodule RSM. There will be one tuple for each mate: n-1 total tuples if there are n modules in this multimodule RSM.

**Attribute: mate**

**Fullname:** sm number of a mate RSM

**Attribute Description** This must be a valid, equipped RSM, as shown by a tuple in RLMODATT whose key is the same as this attribute. In addition, it must be an RSM in the same multimodule RSM, as shown by (1) equal 'clid' attributes in the relation RLMODATT for the tuples with keys equal to this attribute and the SM number of the RSM this relation is populated on, and by (2) an entry equal to this attribute in one of the attributes rm01 - rm10 in the relation RLCLIDAT for the tuple corresponding to this cluster. The key to the CLIDAT tuple is the same as the 'clid' attribute of the AM relation RLMODATT discussed previously.

**Attribute: cl_offset**

**Fullname:** the relative index number in the multimodule RSM for 'mate'

**Attribute Description** This attribute gives the relative RSM number (1-4) in the multimodule RSM. This number must agree with the cl_offset attribute of the relation RLMODATT for the previous

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tuple whose key is 'mate', and with the office parameter Glcl_offset populated in the RSM specified by 'mate'. Further, this attribute should be consistent with the corresponding one of the rm01 - rm10 attributes in the tuple in the AM relation RLCLIDAT for the cluster this RSM is in. (The CLIDAT tuple is the same one as described previously in 'mate' rules.) For example, in the CLIDAT tuple, if attribute rm02 is set to the same value as the previous 'mate', then cl_offset should be set to 2.

**Attribute: num_icls**

**Fullname:** number of ICLs

**Attribute Description** The count of the number of operational ICLs (0-18) between this module and mate. This should agree with the number of non-zero attributes in the cdfi0-cdfi17 group for this tuple.

**Attribute: cdfi[*]**

**Fullname:** indicates an ICL going between the module this relation is populated on and 'mate'

**Attribute Description** These attributes (cdfi0-cdfi17) hold the internal circuit name for each Communication Facility (PCCFAC) which terminates an ICL connecting far RSM 'mate' to this RSM. The PCCFAC circuits must also be populated in this RSM's RLCKTDATA relation, with keys equal to these attributes, and type equal to PCCFAC.

cdfi0 - cdfi17 attributes (abbreviated cdfiXX) which do not correspond to active ICLs must be populated with #GLNULCKT. The PCCFACs may populate these attributes in any order, but should start from the lowest number index, preferably leaving no holes, although holes are permissible to accommodate de-growth without having to re-pack the information.

This array should be consistent with the relation RLCDFI_MAP such that there is a tuple in RLCDFI_MAP for each non-zero entry in this group of attributes. The key to the CDFI_MAP relation is the same as these attributes.

The utype attribute of the PCCFAC's CKTDATA tuple can be consulted to determine unit type (SMDLTU or SMDLTU2).

**Defines:**
"db/DMcircuit.h"

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# MBG2TG

## 1. Description

Translation from multiswitch business group identifier to terminal group identifier. Also stores MBG specific information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples based on maximum in RLrt_tg | 150 |
| expected tuples | 20 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LRFR |
| relation type | DBSTATIC |

## 3. Field Layout

```
MBG2TG      relid = 2133  DBSTATIC   DBACC_HASH  DBPRAM    LRFR    NULL
     mbg_id       DMUNS16       (ushort)  <--- key
     tgid         DMUNS16       (ushort)
     bcid         DMUNS16       (ushort)
     cwd_campon   DMFID         (ushort: 10)
 (a) cns          DMBOOL        (enum: 1)
 (b) cn_isvm      DMBOOL        (enum: 1)
     cwo_campon   DMFID         (ushort: 10)
         User, Compacted and Stored Tuple Layout MBG2TG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              mbg_id           |               tgid            |
    |---------------+---------------+---------------+---------------|
    |                               |                   | | |       |
  4 |               bcid            |     cwd_campon    |a|b|*******|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  8 |     cwo_campon    |*******************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLmbg2tg

**Relation Description** This relation translates a multiswitch business group (MBG) identifier to a terminal group number. It also stores information relative to the MBG.

**Attribute: mbg_id**

**Fullname:** Multiswitch business group (MBG) identifier

**Attribute Description** mbg_id is an identifier used to describe a multiswitch business group (MBG) that has multiswitch business group elements (MBGE) in 1 or more switches. This is a unique number in the network with a range of {2-65535}. The value 1 is "Reserved for Public Network Identifier" (such as, non-MBG identification.

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```
RULE about RLmbg2tg.mbgid
This relation should not exist unless the
Centrex Network (CN) CN_SFID #181 is on.
```

**Attribute: tgid**

**Fullname:** Terminal Group IDentifier - identification of this modular feature customization terminal group

**Attribute Description** tgid is a unique identifier used to describe a group of terminals. Terminal group ID of the lines (not the attendant's TGID) that get toll diverted or have manual line service or get re-routed to the attendant directory number (DN).

**Attribute: cwd_campon**

**Fullname:** campon dialed call waiting

**Attribute Description** cwd_campon is the low order 10 bits of a feature identifier that is used to apply call waiting tone for an incoming ISUP7 MBG call from an attendant. This value is used for the call when an incoming ISUP7 call has an IAM message with the following IAM message content. Business group (BG) parameter indicating an ISAT terminal is calling service activation parameter (SAP) indicating dialed call waiting is active for the call. Note that the SAP parameter value shows that call waiting is active and tells nothing about the type of treatment to be given to the called party.

Example values for this field are:

```
/CWD  - a preconstructed feature for dialed call waiting
XYZ   - a user defined feature
```

**Attribute: cwo_campon**

**Fullname:** campon call waiting originating

**Attribute Description** cwd_campon is the low order 10 bits of a feature identifier that is used to apply call waiting tone for an incoming ISUP7 MBG call from an attendant. This value is used for the call when an incoming ISUP7 call has an IAM message with the following IAM message content. Business group (BG) parameter indicating an ISAT terminal is calling service activation parameter (SAP)indicating call waiting originating is active for the call. Note that the SAP parameter value shows that call waiting is active and tells nothing about the type of treatment to be given to the called party.

Example values for this field are:

```
/CWO  - a preconstructed feature for call waiting originating
XYZ   - a user defined feature
```

**Attribute: bcid**

**Fullname:** Business Customer IDentifier

**Attribute Description** bcid is used to perform BCID screening on trunk originated MBG calls that

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have been forwarded to a multi-line hunt group (MLHG) associated with either voice mail system (VMS) or an attached processor (AP).

```
RULE about RLmbg2tg.bcid
RLmbg2tg.bcid must be 0 unless the
CENTREX network with iSVM (CNISVM)
CNISVM_SFID #182 is on.
```

**Attribute: cns**

**Fullname:** CENTREX Network government Secure

**Attribute Description** CNS is an indicator showing subscription to the CENTREX network government secure feature.

```
RULE about RLmbg2tg.cns
RLmbg2tg.cns must be DBNO unless the
CENTREX network government secure (CNS)
CNS_SFID_183 is on.
```

**Attribute: cn_isvm**

**Fullname:** CENTREX interswitch voice mail (ISVM) system

**Attribute Description** cn_isvm is an indicator showing subscription to the CENTREX network ISVM feature.

```
RULE about RLmbg2tg.cn_isvm
RLmbg2tg.cn_isvm must be DNBO unless the
CENTREX network with ISVM (CNISVM)
CNISVM_SFID_182 is on.
```

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# MDC_GRP

## 1. Description

This is the Message Desk Center group data relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 500 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 512 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
MDC_GRP     relid = 852   DBSTATIC   DBACC_HASH  DBPRAM    LPFR    RCMAP
     grupnm       DMGRUPNM     (ushort: 13)     <--- key
     ap_id        DMAPZSITE    (ushort: 8)
 (a) msrmnt       DMBOOL       (enum: 1)
 (b) msc_scrn     DMBOOL       (enum: 1)
 (c) client_typ   DMMSSCLIENT  (enum: 2)
 (d) intraswocdn  DMBOOL       (enum: 1)
 (e) delay_ring   DMBOOL       (enum: 1)
 (f) ovride_prv   DMBOOL       (enum: 1)
     gcsrid1      DMUNS16      (ushort)
     gcsrid2      DMUNS16      (ushort)
     gcsrid3      DMUNS16      (ushort)
     gcsrid4      DMUNS16      (ushort)
     gcsrid5      DMUNS16      (ushort)
     gcsrid6      DMUNS16      (ushort)
         User, Compacted and Stored Tuple Layout    MDC_GRP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                         |     |               | | |   | | | | |
  0 |          grupnm         |*****|     ap_id     |a|b| c |d|e|f|*|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  4 |            gcsrid1              |            gcsrid2            |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  8 |            gcsrid3              |            gcsrid4            |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
 12 |            gcsrid5              |            gcsrid6            |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
domain alMDC_GRP  struct  (9 sub-attributes)
         grupnm      .2.fake      (ushort: 13)
         ap_id       .3.fake      (ushort)
```

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```
(a)     msrmnt      .0fake       (enum)
(b)     msc_scrn    .0fake       (enum)
(c)     client_typ  .1fake       (enum)
(d)     intraswocdn  .0fake       (enum)
(e)     delay_ring  .0fake       (enum)
(f)     ovride_prv  .0fake       (enum)
        gcsrid      .4.fake      (array [ 6 ] of unsigned short )

        Structure Layout     alMDC_GRP
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                           |     |               | | |   | | | | |
 0 |          grupnm           |*****|     ap_id     |a|b| c |d|e|f|*|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 4 |                               gcsrid                          |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                               |
 8 |                               gcsrid                          |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                               |
12 |                               gcsrid                          |
   |---------------+---------------+---------------+---------------|
      ( 16 bytes )
```

## 4. Population Rules for RLmdc_grp

**Relation Description:** Message desk center group.

Message desk center group data.

**Attribute: grupnm**

**Fullname:** Group number

**Attribute Description** Multi-line hunt group number. Verify RLrt_mhg has a tuple such that
RLrt_mhg.grpnum = grupnm and
RLrt_mhg.htype = RTH_UCD || RTH_LGUCD ||
RTH_REGULAR ||
RTH_LGREG ||
RTH_ISAT ||
RTH_MUPH ||
RTH_PPSMHG ||
RTH_PPLMHG ||
RTH_CIRCULAR ||
RTH_LGCIR.

Verify that: RLrt_mhg.mdc = DBYES

Verify that RLrc_msusr has a tuple such that: RLrc_msusr(grupnm).mdc_no = grupnm

**Attribute: ap_id**

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**Fullname:** Application processor (AP) ID

**Attribute Description** Application processor ID (APID).

If RLrt_mhg.htype = RTH_ISAT then, ap_id must equal 0 If RLrt_mhg.htype = RTH_MUPH then ap_id must NOT equal 0 (Multi-Position Hunt Multi-Line Hunt Groups cannot be Basic Message Service Centers because they are analog sets and cannot have feature buttons required for Basic MSC) If ap_id is not zero then, Verify that RLcmapdata has a tuple such that:
`RLcmapdata.site_id = RLmdc_grp.ap_id and`
`RLcmapdata.module is non-zero.`

**Attribute: msrmnt**

**Fullname:** Measurement flag

**Attribute Description** Measurement flag. Boolean value indicating whether or not measurements are to be taken.

If the tuple in RLms_ap with RLms_ap(MDS, DBYES) has a mlhg_n* such that mlhg_n* = RLmdc_grp.grupnm, then RLmdc_grp.msrmnt = DBYES else RLmdc_grp.msrmnt = DBNO. When deleting a tuple from this relation and msrmnt = DBYES, then zero this mlhg_n* and decrement by 1 the idscnt field in the RLms_ap(MDS, DBYES).

**Attribute: msc_scrn**

**Fullname:** Business customer ID (BCID) screening option for message service center

**Attribute Description** Indicates whether or not BCID screening is needed. It is intended that ISVM subscribers to call answering will forward their calls to an unscreened MSC MLHG.

With the introduction of ISVM in 5E7, MSC can be categorized into eight types as follows:

| Basic/Deluxe | Screening | No-Screening |
|---|---|---|
| OCDN Option | 1B/1D | 3B/3D |
| RDN Option | 2B/2D | 4B/4D |

Note that B indicates 'Basic' and D indicates 'Deluxe'. 'Deluxe' means there is an AP or Virtual Machine (VM) associated with the MSC. MSC types 1B and 1D are existing pre-5E7 MSCs. MSC types 2B, 3B, and 4B should be blocked.

If mdc_grp.msc_scrn = DBNO, then verify that mdc_grp.ap_id != 0. This will block 3B and 4B types of MSCs.

If mdc_grp.msc_scrn = DBYES, then verify that at least one of the fields, gcsrid1 through gcsrid6, must be non-zero.

If RLrt_mhg.htype = RTH_ISAT, then verify that mdc_grp.msc_scrn = DBYES. This indicates that call screening will not be done, but a BASIC MSC must have BCIDs to do attendant message waiting indicator (MWI) control. ISAT MSC MLHG will be of type 1B.

**Attribute: client_typ**

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**Fullname:** Client telephone number (TN) type

**Attribute Description** Indicates the client TN type sent to message service center. One of the two types, that is, MSS_OCDN (original called Directory Number [DN]) or MSS_RDN (redirecting DN), must be specified here.

If mdc_grp.client_typ = MSS_RDN then, verify that mdc_grp.ap_id != 0. This is to block 2B or 4B type of MSCs.

If RLrt_mhg.htype = RTH_ISAT then, verify that mdc_grp.client_type = MSS_OCDN.

**Attribute: intraswocdn**

**Fullname:** Intra-switch client Directory Number (DN) indicator NOTE: Attribute will be renamed in 5E10.

**Attribute Description** Boolean used to indicate whether the intra-switch or inter-switch directory number (Original Called DN (OCDN) or Redirecting DN (RDN) based on the client TN type attribute - client_typ) is to be sent to the Voice Messaging System (VMS). A DBNO indicates that the OCDN or RDN will be sent to the VMS even if that DN is on another switch. A DBYES indicates that the DN passed to the VMS is the first or last DN the call terminates to on this switch.

***NOTE:*** For pre-5e9(2) MSS functionality where msc_scrn is set to DBYES, set intraswocdn to DBYES.

**Attribute: delay_ring**

**Fullname:** Delay power ringing for 2 seconds of a 'Deluxe' MSC MLHG

**Attribute Description** Boolean used to indicate whether the power ringing of the MSC MLHG is to be delayed for 2 seconds so that the AP/VMS has time to process the call history information sent from the switch.

**Attribute: ovride_prv**

**Fullname:** Override privacy of calling number for ISVM MSC

**Attribute Description** Boolean used to indicate whether to override a privacy indication of the Calling DN for both direct and forwarded calls and deliver the DN in the Call History Information message to the AP if this MSC is setup to be used for ISVM.

```
if mdc_grp.ovride_prv = DBYES, then
verify that mdc_grp.mdc_scrn = DBNO,
            mdc_grp.intraswocdn = DBNO and
            there is tuple in RLcmapdata such that
            when cmapdata.site_id = mdc_grp.ap_id, then
                        cmapdata.use_isvm = DBYES
```

**Attribute: gcsrid[*]**

**Fullname:** Business customer ID.

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**Attribute Description** A no screening MSC MLHG is not required to have BCID. For detailed explanation see USAGE section under msc_scrn.

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# MDPATH

## 1. Description

This relation relates a Message Delivery (MD) Data Link Terminal (DLT) port to its corresponding DLT port in the MD path.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 256 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCmdpath |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
MDPATH      relid = 2376  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     dlt          DMPORT       (ushort)     <--- key
     mate_dlt     DMPORT       (ushort)
     mate_sm      DMUCHAR      (uchar)
 (a) master       DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout MDPATH
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |               dlt              |            mate_dlt           |
    |---------------+---------------+---------------+---------------|
    |                | |                                            |
  4 |    mate_sm     |a|********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLmdpath

**Relation Description** Message delivery path.

This relation relates a message delivery (MD) data link terminal (DLT) port to its corresponding DLT port in the MD path. It provides the switching module (SM) number in which the corresponding MD DLT lies, the corresponding DLT port name, and whether the DLT is in the global SM and controls the MD path or not.

**Attribute: dlt**

**Fullname:** Data link terminal.

**Attribute Description** 16-bit port name.

**Attribute: mate_sm**

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**Fullname:** Mate switching module.

**Attribute Description** The mate switching module (SM) number which is served by the message delivery (MD) path.

**Attribute: mate_dlt**

**Fullname:** Mate data link terminal.

**Attribute Description** The mate DLT port name which is served by the message delivery path.

**Attribute: master**

**Fullname:** Master (controller of message delivery path).

**Attribute Description** Indicates whether DLT is the controller of the message delivery (MD) path.

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# MDR_CF

## 1. Description

Message Detail Recording (MDR) constructed feature options - used in SM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| expected number of tuples | 5 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head page size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| permutation type | un_perm |

## 3. Field Layout

```
MDR_CF      relid = 745   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     feat_id     DMMCC_FID    (ushort)  <--- key
     actvn       DMMC_ACTYP   (enum: 3)
 (a) dctvn       DMMC_DCTYP   (enum: 2)
 (b) grpchngalw  DMBOOL       (enum: 1)
     amac        DMMC_BILL    (struct)
 (c)     flat        DMBOOL       (enum: 1)
 (d)     usefreq1    DMBOOL       (enum: 1)
 (e)     usefreq2    DMBOOL       (enum: 1)
 (f)     usefreq3    DMBOOL       (enum: 1)
 (g)     usefreq4    DMBOOL       (enum: 1)
 (h)     actchrg     DMBOOL       (enum: 1)
 (i)     dactchrg    DMBOOL       (enum: 1)
 (j)     duration    DMBOOL       (enum: 1)
 (k)     change      DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout MDR_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |     |   | |                 |
  0 |            feat_id              |actvn| a |b|*****************|
    |===============+============  amac ============+===============|
    | | | | | | | | |                                               |
  4 |c|d|e|f|g|h|i|j|k|***********************************************|
    |===============+===============+===============+===============|
       ( 8 bytes )
```

## 4. Population Rules for RLmdr_cf

**Relation Description** Message detail recording (MDR) constructed feature options.

```
WILD-CARD MDR FEATURE NAME
--------------------------
/MD*         WILD-CARD MDR FEATURE
      feat_id      4401
```

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```
      actvn         ACTNONE
      dctvn         DCTNONE
      grpchngalw    DBNO
      amac          DBYES for flat, DBNO for  all other attributes
PRECONSTRUCTED MDR FEATURES
--------------------------
 /MDRTOCL     MDR to CL always active
      feat_id       4402
      actvn         ACTNONE
      dctvn         DCTNONE
      grpchngalw    DBNO
      amac          DBYES for flat,  DBNO for all other attributes
```

**Attribute: feat_id**

**Fullname:** Feature ID.

**Attribute Description** A BRCS constructed feature ID consists of two parts when class = FACBRCS and subclass = SCL_FEAT: a modular feature type (top 6 bits: bits 10 - 15 ) and an unique identifier (bottom 10 bits: bits 0 - 9). For an MDR constructed feature ID, the modular feature type must equal MFMDR (17 = 0x11), which is an enumeration of type DMMFTYPE. The unique identifier ranges from 1 to 1023 (0x1 to 0x3ff).

**Attribute: actvn**

**Fullname:** Activation method.

**Attribute Description** Method of activating constructed feature.

```
Enum. Value   Dependency
ACTNONE    1) RLmdr_opts.dctvn = DCTNONE, DCTCD
           2) RLmdr_opts.amac.flat = DBYES
ACTCD      1) RLmdr_opts.dctvn = DCTAUTO, DCTCD
           2) Verify that RLdaprlfnl or RLidp_dtre
                   *** ODA ONLY WARNING ***
                   *** (NOT SUPPORTED BY RC) ***
              has a tuple for a given dial code
              such that:
              RLdaprlfnl.action = ACN_MDRACT
              RLidp_dtre.action = ACN_MDRACT
```

**Attribute: dctvn**

**Fullname:** Deactivation type.

**Attribute Description** Method of deactivating constructed feature.

```
Enum. Value     Dependency
DCTNONE     1) RLmdr_opts.actvn = ACTNONE
DCTAUTO     1) RLmdr_opts.actvn = ACTCD
DCTCD       1) RLmdr_opts.actvn = ACTNONE, ACTCD
```

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```
2) Verify that RLdaprlfnl or RLidp_dtre
   *** ODA ONLY WARNING ***
   *** (NOT SUPPORTED BY RC) ***
   has a tuple for a given dial code
   such that:
   RLdaprlfnl.action = ACN_MDRDCT
   RLidp_dtre.action = ACN_MDRDCT
```

**Attribute: grpchngalw**

**Fullname:** Group Change Allowed.

**Attribute Description** Boolean value indicating whether a dialed code can be used to change the MDR group status. The MDR group effected is the MDR group to which the originating port belongs.

```
Enum. Value   Dependency
DBNO          none
DBYES         Verify that RLdaprlfnl or RLidp_dtre
              has a tuple for a given dial code
              such that:
              RLdaprlfnl.action = ACN_MDROFF
              RLdaprlfnl.action = ACN_MDR_ON
              RLidp_dtre.action = ACN_MDROFF
              RLidp_dtre.action = ACN_MDR_ON
```

**Attribute: amac**

**Fullname:** AMA Charging.

**Attribute Description** Boolean structure indicating the combination of several types of AMA charging. In each case, a DBYES indicates that type of billing is applicable and DBNO indicates it is not. See domain DMmc_bill for a description of each sub-attribute.

Range: DBYES, DBNO for each sub-attribute. Default Value: DBYES for flat, DBNO for all other sub-attributes.

If flat == DBYES, all other sub-attributes = DBNO.

**Attribute: amac.flat**

**Fullname:** Flat Charging.

**Attribute Description** Flat rate - no usage sensitive charge.

**Attribute: amac.usefreq1**

**Fullname:** User Frequent 1.

**Attribute Description** User frequent usage event.

**Attribute: amac.usefreq[*]**

**Fullname:** User Frequent Event.

**Attribute Description** Usage frequency charge - for use of 'event'.

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**Attribute: amac.actchrg**

**Fullname:** Activation Charge.

**Attribute Description** Usage charge for activation.

**Attribute: amac.dactchrg**

**Fullname:** Deactivation Charge.

**Attribute Description** Usage deactivation charge.

**Attribute: amac.duration**

**Fullname:** Duration charge.

**Attribute Description** Usage duration charge.

**Attribute: amac.change**

**Fullname:** Change parameter.

**Attribute Description** Change parameter charg.

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# MDR_CNTS

## 1. Description

Message Detail Recording (MDR) counts record specification.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
MDR_CNTS    relid = 742   DBSTATIC   DBACC_LIN   DBPRAM    LP      RCMAP
 (a) dummy_key   DMBOOL       (enum: 1)  <--- key
     ids_in_use  DMMCUSECNT   (ushort)
     rec_id1     DMMDR_CNTS   (struct)
         gcsrid      DMUNS16      (ushort)
         ap_id       DMAPZSITE    (ushort: 8)
     rec_id2     DMMDR_CNTS   (struct)
         gcsrid      DMUNS16      (ushort)
         ap_id       DMAPZSITE    (ushort: 8)
     rec_id3     DMMDR_CNTS   (struct)
         gcsrid      DMUNS16      (ushort)
         ap_id       DMAPZSITE    (ushort: 8)
     rec_id4     DMMDR_CNTS   (struct)
         gcsrid      DMUNS16      (ushort)
         ap_id       DMAPZSITE    (ushort: 8)
     rec_id5     DMMDR_CNTS   (struct)
         gcsrid      DMUNS16      (ushort)
         ap_id       DMAPZSITE    (ushort: 8)
     rec_id6     DMMDR_CNTS   (struct)
         gcsrid      DMUNS16      (ushort)
         ap_id       DMAPZSITE    (ushort: 8)
     rec_id7     DMMDR_CNTS   (struct)
         gcsrid      DMUNS16      (ushort)
         ap_id       DMAPZSITE    (ushort: 8)
     rec_id8     DMMDR_CNTS   (struct)
         gcsrid      DMUNS16      (ushort)
         ap_id       DMAPZSITE    (ushort: 8)
     rec_id9     DMMDR_CNTS   (struct)
         gcsrid      DMUNS16      (ushort)
         ap_id       DMAPZSITE    (ushort: 8)
     rec_id10    DMMDR_CNTS   (struct)
         gcsrid      DMUNS16      (ushort)
         ap_id       DMAPZSITE    (ushort: 8)
     rec_id11    DMMDR_CNTS   (struct)
         gcsrid      DMUNS16      (ushort)
```

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```
        ap_id       DMAPZSITE    (ushort: 8)
    rec_id12    DMMDR_CNTS   (struct)
        gcsrid      DMUNS16      (ushort)
        ap_id       DMAPZSITE    (ushort: 8)
    rec_id13    DMMDR_CNTS   (struct)
        gcsrid      DMUNS16      (ushort)
        ap_id       DMAPZSITE    (ushort: 8)
    rec_id14    DMMDR_CNTS   (struct)
        gcsrid      DMUNS16      (ushort)
        ap_id       DMAPZSITE    (ushort: 8)
    rec_id15    DMMDR_CNTS   (struct)
        gcsrid      DMUNS16      (ushort)
        ap_id       DMAPZSITE    (ushort: 8)
    rec_id16    DMMDR_CNTS   (struct)
        gcsrid      DMUNS16      (ushort)
        ap_id       DMAPZSITE    (ushort: 8)
    rec_id17    DMMDR_CNTS   (struct)
        gcsrid      DMUNS16      (ushort)
        ap_id       DMAPZSITE    (ushort: 8)
    rec_id18    DMMDR_CNTS   (struct)
        gcsrid      DMUNS16      (ushort)
        ap_id       DMAPZSITE    (ushort: 8)
    rec_id19    DMMDR_CNTS   (struct)
        gcsrid      DMUNS16      (ushort)
        ap_id       DMAPZSITE    (ushort: 8)
    rec_id20    DMMDR_CNTS   (struct)
        gcsrid      DMUNS16      (ushort)
        ap_id       DMAPZSITE    (ushort: 8)
    rec_id21    DMMDR_CNTS   (struct)
        gcsrid      DMUNS16      (ushort)
        ap_id       DMAPZSITE    (ushort: 8)
    rec_id22    DMMDR_CNTS   (struct)
        gcsrid      DMUNS16      (ushort)
        ap_id       DMAPZSITE    (ushort: 8)
    rec_id23    DMMDR_CNTS   (struct)
        gcsrid      DMUNS16      (ushort)
        ap_id       DMAPZSITE    (ushort: 8)
    rec_id24    DMMDR_CNTS   (struct)
        gcsrid      DMUNS16      (ushort)
        ap_id       DMAPZSITE    (ushort: 8)
    rec_id25    DMMDR_CNTS   (struct)
        gcsrid      DMUNS16      (ushort)
        ap_id       DMAPZSITE    (ushort: 8)
        User, Compacted and Stored Tuple Layout   MDR_CNTS
  |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
  |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
  |---------------+---------------+---------------+---------------|
  | |                             |                               |
0 |a|*****************************|           ids_in_use          |
  |===============+=========== rec_id1 ===========+===============|
  |                             |               |               |
4 |             gcsrid          |     ap_id     |***************|
  |===============+=========== rec_id2 ===========+===============|
  |                             |               |               |
```

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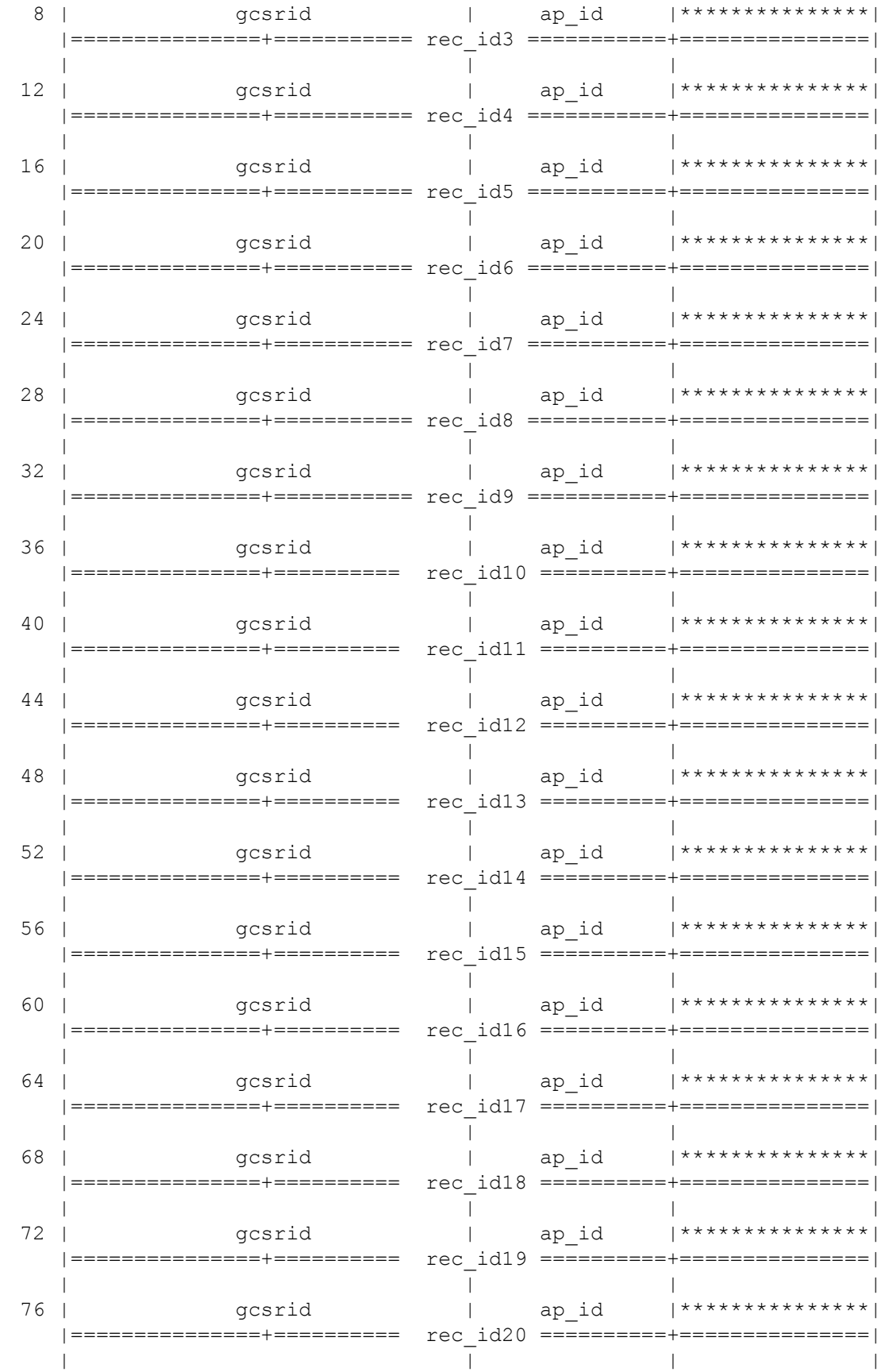


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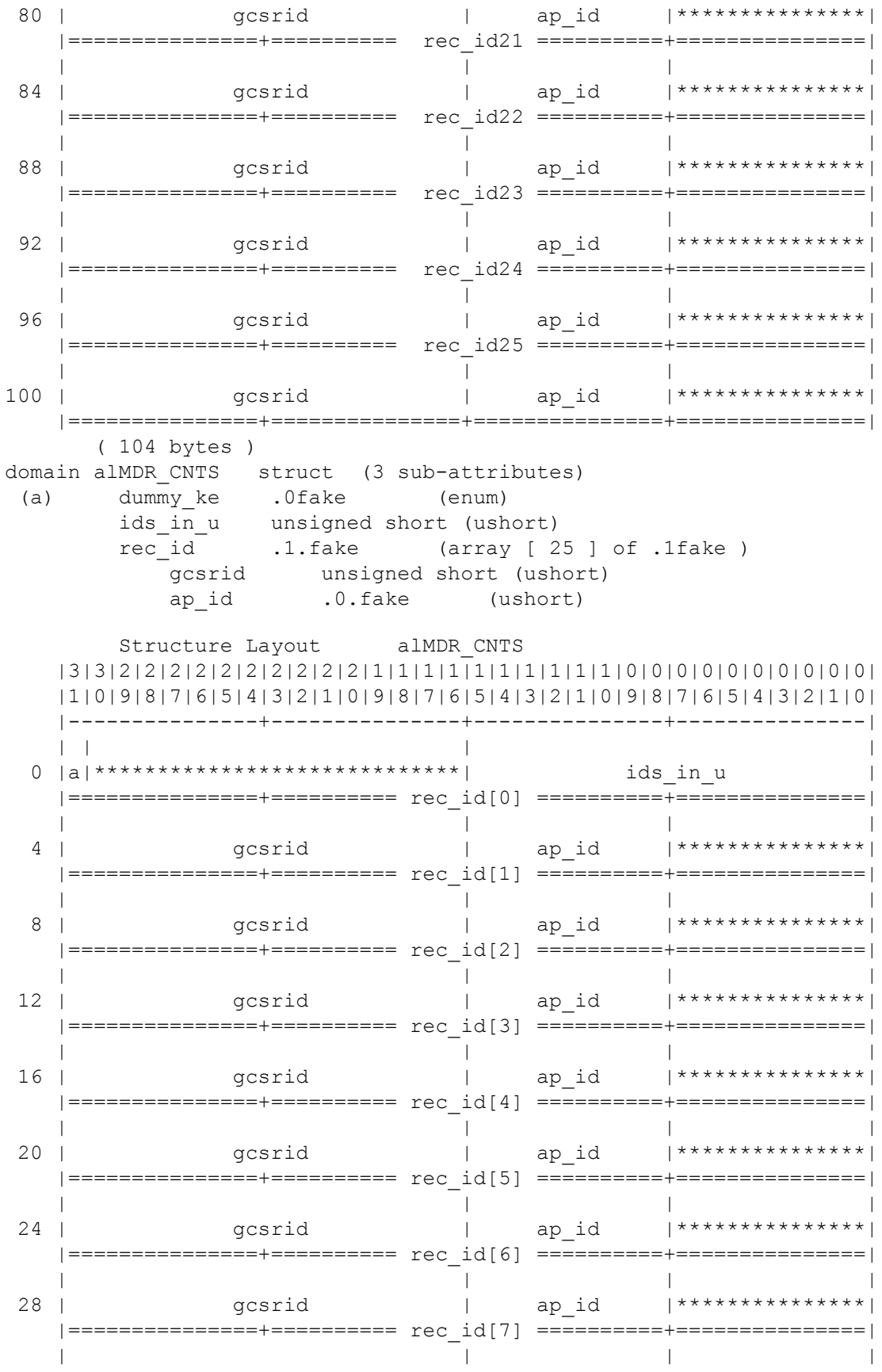
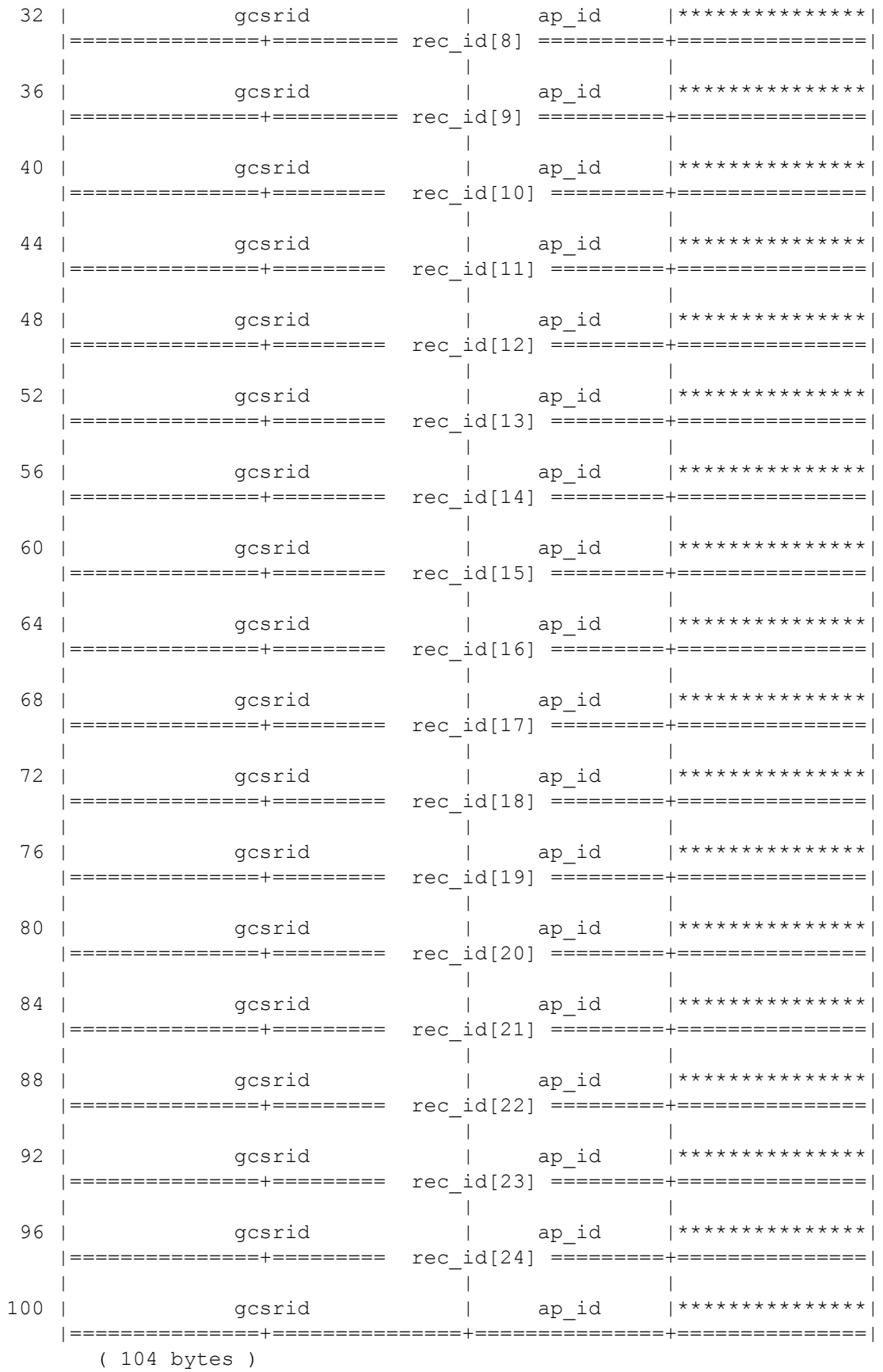

80 | gcsrid | ap_id |
rec_id21
84 | gcsrid | ap_id |
rec_id22
88 | gcsrid | ap_id |
rec_id23
92 | gcsrid | ap_id |
rec_id24
96 | gcsrid | ap_id |
rec_id25
100 | gcsrid | ap_id |
( 104 bytes )
domain alMDR_CNTS struct (3 sub-attributes)
(a) dummy_ke .0fake (enum)
ids_in_u unsigned short (ushort)
rec_id .1.fake (array [ 25 ] of .1fake )
gcsrid unsigned short (ushort)
ap_id .0.fake (ushort)
Structure Layout alMDR_CNTS
3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
a
ids_in_u
rec_id[0]
gcsrid
ap_id
rec_id[1]
rec_id[2]
rec_id[3]
rec_id[4]
rec_id[5]
rec_id[6]
rec_id[7]




( 104 bytes )

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## 4. Population Rules for RLmdr_cnts

**Relation Description** MDR counts record specification. A single tuple is always required for this relation (rlMDR_CNTS).

**Attribute: dummy_key**

**Fullname:** Dummy key.

**Attribute Description** This relation does not need a key, but one is required. A 'dummy key' is used for this relation.

**Attribute: ids_in_use**

**Fullname:** Number of rec_id structures in use.

**Attribute Description** This attribute specifies the current number record ID's currently in use. The rec_id structures must be populated in sequential order, rec_id1 first, then rec_id2, and so on.

**Attribute: rec_id[*]**

**Fullname:** MDR counts record ID

**Attribute Description** MDR counts record ID. This domain is a structure with the following elements:

```
gcsrid - business customer ID
ap_id  - applications processor ID
```

Each pair of these values (or each structure) specifies the destination of an MDR counts record.

**Attribute: rec_id[*].gcsrid**

**Fullname:** Business customer ID

**Attribute Description** The gcsrid and ap_id are treated as pairs. For each pair, if gcsrid > 0, then ap_id > 0.

**Attribute: rec_id[*].ap_id**

**Fullname:** Applications processor ID (APID)

**Attribute Description** The gcsrid and ap_id are treated as pairs. For each pair, if ap_id > 0, then gcsrid > 0.

```
Verify that RLcmapdata and RLmdr_gp have
tuples such that:
RLcmapdata.site_id = ap_id
RLmdr_gp.ap_id = ap_id
```

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# MDR_GP

## 1. Description

Message Detail Recording (MDR) feature group parameter data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |
| ks key store | DBNO |
| l1 length of subkey1 | 10 |
| p1 position of subkey1 | 6 |
| corcable | DBYES |
| permutation type | un_perm |
| ignore key bits | 0-5 |

## 3. Field Layout

```
MDR_GP      relid = 744   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP
     mdr_gpid    DMFACID      (ushort)  <--- key, not stored
     gcsrid      DMUNS16      (ushort)
     ap_id       DMAPSITE     (ushort: 8)
  (a) orig_priv   DMBOOL       (enum: 1)
  (b) in_priv     DMBOOL       (enum: 1)
  (c) public      DMBOOL       (enum: 1)
  (d) sta_sta     DMBOOL       (enum: 1)
  (e) eff_o       DMBOOL       (enum: 1)
  (f) ineff_o     DMBOOL       (enum: 1)
  (g) eff_i       DMBOOL       (enum: 1)
  (h) ineff_i     DMBOOL       (enum: 1)
  (i) eff_p       DMBOOL       (enum: 1)
  (j) ineff_p     DMBOOL       (enum: 1)
  (k) eff_s       DMBOOL       (enum: 1)
  (l) ineff_s     DMBOOL       (enum: 1)
  (m) hr8_passed  DMBOOL       (enum: 1)
  (n) pkt_mdr     DMBOOL       (enum: 1)
  (o) modem_pool  DMBOOL       (enum: 1)
  (p) intra_pbg   DMBOOL       (enum: 1)
  (q) grpstatus   DMMDRSTAT    (enum: 1)
        User and Compacted Tuple Layout     MDR_GP
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            mdr_gpid           |*******************************|
   |---------------+---------------+---------------+---------------|
   |                               |               | | | | | | | | |
 4 |             gcsrid            |     ap_id     |a|b|c|d|e|f|g|h|
   |---------------+---------------+---------------+---------------|
```

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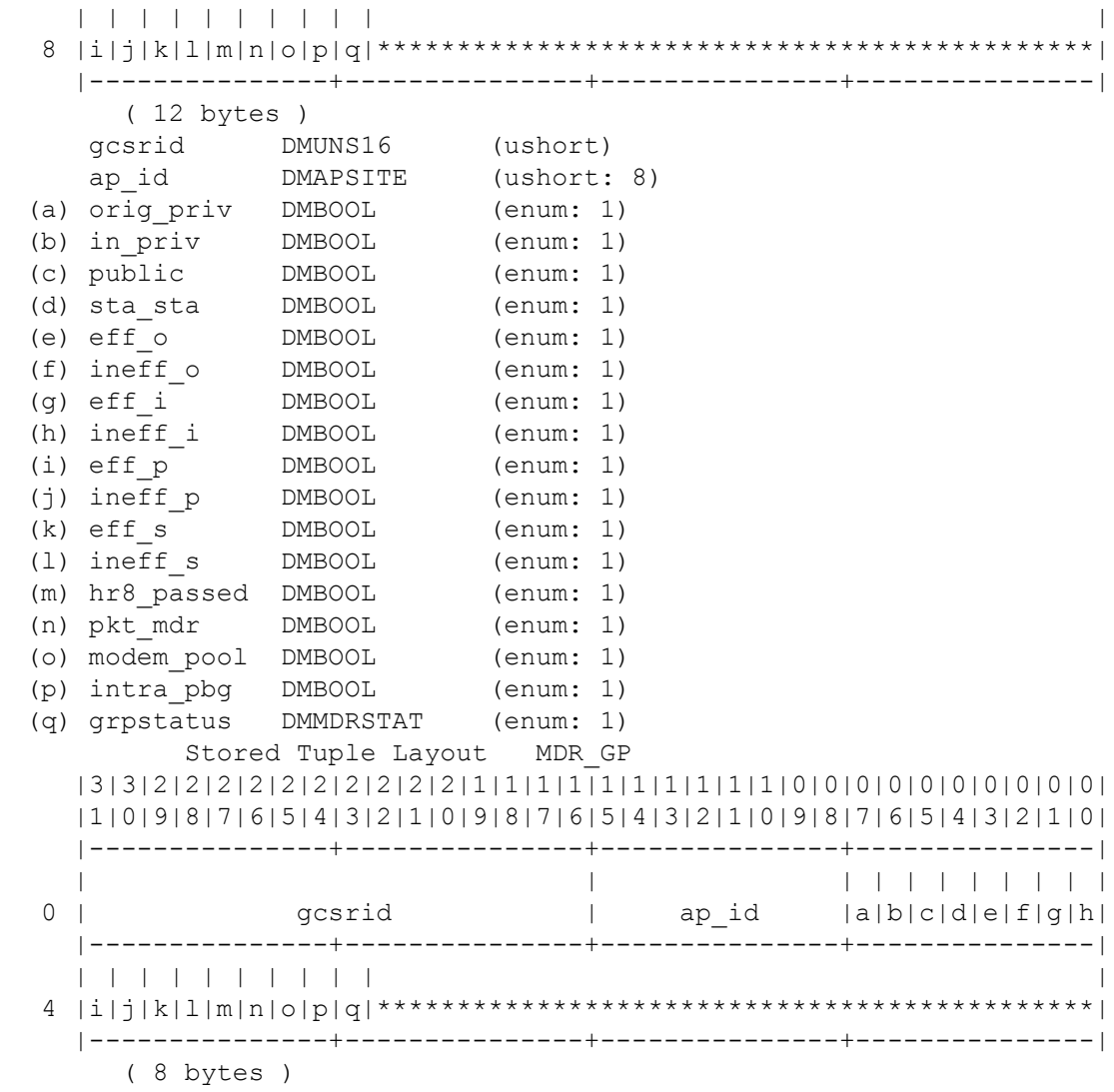


## 4. Population Rules for RLmdr_gp

**Relation Description** Message detail recording feature group parameter data. Message detail recording groups may be assigned to both circuit and packet switched integrated ser

vices digital network (ISDN) users. The group may have both circuit and packet types active or only one of the types active. If the group is defined in RLmdr_gp with the attribute pkt_mdr set to DBYES and all of the circuit MDR attributes (orig_priv, in_priv and public) are DBNO then this is a packet only MDR group. When packet only groups are assigned to packet services there will not be a tuple in RLmdr_port or RLrt_sfg, and there will be at least one RLpsx25ln tuple populated with the attribute pmdr_grp equal to this group. When MDR groups with both circuit and packet options active are assigned to circuit users and packet services the group will be populated in RLmdr_port, RLrt_sfg, and the RLpsx25ln. RLmdr_port and/or RLrt_sfg are populated for circuit MDR, and RLpsx25ln is only populated for packet MDR.

Packet MDR groups assigned to different digital subscriber line (DSL) packet services may be the same group or different for each packet service. The MDR activation status of each packet service may be either on or off independent of the other DSL packet services MDR activation.

**Attribute: mdr_gpid**

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**Fullname:** Message detail recording (MDR) group identification

**Attribute Description** The MDR group ID is an identifier resulting from the conversion from an 8 character MDR group name using RLfacname. An MDR group ID of zero is invalid for this relation.

The key is 16 bits. The first 6 bits are always zero since the number of MDR groups is limited to 1000 ( < 2**10 ). Therefore, a subkey is used: where p1 is the position of the start of subkey 1 and l1 is the length of subkey 1. It is important that when a subkey is used, the key attribute MUST be the first attribute in the relation. This can be achieved by using un_perm or by using perm and specifying head between key and the attribute name. For example,

key head DMFACID mdr_gpid

The un_perm method provides the best space allocation for this relation.

```
Key -       | 0 0 0 0  0 0 x x  x x x x  x x x x |   16 bits
Subkey1 -     --- p1 ----> <------- l1 -------->     p1 = 6: l1 = 10
Index -                   <---------->              index = 6 bits
```

Tuple size = 8 bytes Head table size = 2**6 * 2 = 64 * 2 = 128 Data page size = 2**(10-6) = 2**4 * 8 = 16 * 8 = 128

**Attribute: gcsrid Fullname:** Business customer ID

**Attribute Description** Business customer ID.

**Attribute: ap_id**

**Fullname:** Applications processor ID (APID)

**Attribute Description** No comment.

**Attribute: orig_priv**

**Fullname:** Originating private MDR record allowed

**Attribute Description** No comment.

**Attribute: in_priv**

**Fullname:** Incoming private MDR record allowed

**Attribute Description** No comment.

**Attribute: public**

**Fullname:** Public MDR record allowed

**Attribute Description** No comment.

**Attribute: sta_sta**

**Fullname:** Station to station MDR allowed

**Attribute Description** No comment.

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**Attribute: eff_o**

**Fullname:** Effective attempt for originating private record

**Attribute Description** If DBYES, you want originating private record generated for effective call attempts. If DBNO, you do not want originating private record generated for effective call attempts.

**Attribute: ineff_o**

**Fullname:** Ineffective attempts for originating private record

**Attribute Description** If DBYES you want originating private record generated for ineffective call attempts. If DBNO, you do not want originating private record generated for ineffective call attempts.

**Attribute: eff_i**

**Fullname:** Effective attempt for incoming private record

**Attribute Description** If DBYES, you want incoming private record generated for effective call attempts. If DBNO, you do not want incoming private record generated for effective call attempts.

**Attribute: ineff_i**

**Fullname:** Ineffective attempts for incoming private record

**Attribute Description** If DBYES, you want incoming private record generated for ineffective call attempts. If DBNO, you do not want incoming private record generated for ineffective call attempts.

**Attribute: eff_p**

**Fullname:** Effective attempt for public record

**Attribute Description** If DBYES, you want public record generated for effective call attempts. If DBNO, you do not want public record generated for effective call attempts.

**Attribute: ineff_p**

**Fullname:** Ineffective attempts for public record

**Attribute Description** If DBYES, you want public record generated for ineffective call attempts. If DBNO, you do not want public record generated for ineffective call attempts.

**Attribute: eff_s**

**Fullname:** Effective attempt for station-to-station record

**Attribute Description** If DBYES, you want station-to-station records generated for effective call attempts. If DBNO, you do not want station-to-station records generated for effective call attempts.

**Attribute: ineff_s**

**Fullname:** Ineffective attempts for station-to-station records

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**Attribute Description** If DBYES, you want station-to-station records generated for ineffective call attempts. If DBNO, you do not want incoming station-to-station records generated for ineffective call attempts.

**Attribute: hr8_passed**

**Fullname:** 8-hour passed MDR allowed

**Attribute Description** If hr8_passed is DBYES, then one or more of the following attributes must equal DBYES: orig_priv, in_priv, or public. NOTE: If this attribute is set to DBYES, but the office parameter GI8hrsc is DBNO, then the 8-hour passed MDR records will not be generated in that office.

**Attribute: pkt_mdr**

**Fullname:** Packet MDR indicator

**Attribute Description** This attribute indicates packet MDR record generation for packet users assigned to this MDR group.

If the MDR group has both circuit and packet MDR options activated and also has the control line option active the user may disable both circuit and packet MDR options with a customer-oriented recent change (CORC) changing the grpstatus bit to DBMDROFF. If the MDR group has only packet MDR options active the control line is not applicable.

If this attribute is DBNO then the attributes modem_pool and intra_pbg must also be DBNO.

**Attribute: modem_pool**

**Fullname:** Packet MDR modem pool recording indicator

**Attribute Description** This attribute indicates whether modem pool packet MDR records are allowed to be generated for packet services assigned to this MDR group.

Packet MDR groups should not be assigned directly to modem pool members. When this attribute is active and a DSL assigned with the group accesses a modem pool two packet MDR records are generated (one for the packet call and one for the modem pool access). Otherwise, one packet MDR record would be generated for the packet call only.

**Attribute: intra_pbg**

**Fullname:** Intra packet business group MDR indicator

**Attribute Description** This attribute indicates whether packet MDR records for intra packet business groups are allowed to be generated.

**Attribute: grpstatus**

**Fullname:** Message detail recording (MDR) status (on or off)

**Attribute Description** If the group status is on (DBMDRON), the allowed record type fields are treated as specified (DBYES or DBNO). If the group status is off (DBMDROFF), the allowed record type fields are all treated as DBNO.

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# MDR_OPTS

## 1. Description

Message Detail Recording (MDR) constructed feature options and defaults - used in AM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| permutation type | un_perm |

## 3. Field Layout

```
MDR_OPTS    relid = 746   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     feat_id     DMMCC_FID    (ushort)  <--- key
     actvn       DMMC_ACTYP   (enum: 3)
 (a) dctvn       DMMC_DCTYP   (enum: 2)
 (b) grpchngalw  DMBOOL       (enum: 1)
     amac        DMMC_BILL    (struct)
 (c)     flat        DMBOOL       (enum: 1)
 (d)     usefreq1    DMBOOL       (enum: 1)
 (e)     usefreq2    DMBOOL       (enum: 1)
 (f)     usefreq3    DMBOOL       (enum: 1)
 (g)     usefreq4    DMBOOL       (enum: 1)
 (h)     actchrg     DMBOOL       (enum: 1)
 (i)     dactchrg    DMBOOL       (enum: 1)
 (j)     duration    DMBOOL       (enum: 1)
 (k)     change      DMBOOL       (enum: 1)
     mdrgroup    DMFACNAME    (array [ 8 ] of char )
         User, Compacted and Stored Tuple Layout   MDR_OPTS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |                             |     |   | |                 |
  0 |            feat_id          |actvn| a |b|*****************|
    |==============+============  amac ============+==============|
    | | | | | | | | |                                          |
  4 |c|d|e|f|g|h|i|j|k|******************************************|
    |==============+==============+==============+==============|
    |                                                           |
  8 |                          mdrgroup                         |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - |
    |                                                           |
 12 |                          mdrgroup                         |
    |--------------+--------------+--------------+--------------|
       ( 16 bytes )
```

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## 4. Population Rules for RLmdr_opts

**Relation Description:** Message detail recording (MDR) constructed feature options and defaults - used in AM.

```
WILD-CARD MDR FEATURE NAME
--------------------------
/MD*          WILD-CARD MDR FEATURE
       feat_id      4401
       actvn        ACTNONE
       dctvn        DCTNONE
       grpchngalw   DBNO
       amac         DBYES for flat, DBNO for  all other attributes

PRECONSTRUCTED MDR FEATURES
---------------------------
 /MDRTOCL     MDR to CL always active
      feat_id      4402
      actvn        ACTNONE
      dctvn        DCTNONE
      grpchngalw   DBNO
      amac         DBYES for flat,  DBNO for all other attributes
```

**Attribute: feat_id**

**Fullname:** Feature ID.

**Attribute Description** A BRCS constructed feature ID consists of two parts when class = FACBRCS and subclass = SCL_FEAT: a modular feature type (top 6 bits: bits 10 - 15) and an unique identifier (bottom 10 bits: bits 0 - 9). For an MDR constructed feature id, the modular feature type must equal MFMDR (17 = 0x11), which is an enumeration of type DMMFTYPE. The unique identifier ranges from 1 to 1023 (0x1 to 0x3ff).

**Attribute: actvn**

**Fullname:** Activation method.

**Attribute Description** Method of activating constructed feature.

```
Enum. Value   Dependency
ACTNONE       1) RLmdr_opts.dctvn = DCTNONE, DCTCD
              2) RLmdr_opts.amac.flat = DBYES
ACTCD         1) RLmdr_opts.dctvn = DCTAUTO, DCTCD
              2) Verify that RLdaprlfnl or RLidp_dtre
                    *** ODA ONLY WARNING ***
                    *** (NOT SUPPORTED BY RC) ***
                 has a tuple for a given dial code
                 such that:
                 RLdaprlfnl.action = ACN_MDRACT
                 RLidp_dtre.action = ACN_MDRACT
```

**Attribute: dctvn**

**Fullname:** Deactivation type.

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**Attribute Description** Method of deactivating constructed feature.

```
Enum. Value Dependency
DCTNONE     1) RLmdr_opts.actvn = ACTNONE
DCTAUTO     1) RLmdr_opts.actvn = ACTCD
DCTCD       1) RLmdr_opts.actvn = ACTNONE, ACTCD
            2) Verify that RLdaprlfnl or RLidp_dtre
                  *** ODA ONLY WARNING ***
                  *** (NOT SUPPORTED BY RC) ***
               has a tuple for a given dial code
               such that:
               RLdaprlfnl.action = ACN_MDRDCT
               RLidp_dtre.action = ACN_MDRDCT
```

**Attribute: grpchngalw**

**Fullname:** Group Change Allowed.

**Attribute Description** Boolean value indicating whether a dialed code can be used to change the MDR group status. The MDR group effected is the MDR group to which the originating port belongs.

```
Enum. Value   Dependency
DBNO          none
DBYES         Verify that RLdaprlfnl or RLidp_dtre
              has a tuple for a given dial code
              such that:
              RLdaprlfnl.action = ACN_MDROFF
              RLdaprlfnl.action = ACN_MDR_ON
              RLidp_dtre.action = ACN_MDROFF
              RLidp_dtre.action = ACN_MDR_ON
```

**Attribute: amac**

**Fullname:** AMA Charging.

**Attribute Description** Boolean structure indicating the combination of several types of AMA charging. In each case, a DBYES indicates that type of billing is applicable and DBNO indicates it is not. See domain DMmc_bill for a description of each sub-attribute.

The sole permissible values for 5E3 are DBYES for flat and DBNO for all others.

Range: DBYES, DBNO for each sub-attribute. Default Value: DBYES for flat, DBNO for all other sub-attributes.

If flat == DBYES, all other sub-attributes = DBNO.

**Attribute: amac.flat**

**Fullname:** Flat Charging.

**Attribute Description** Flat rate - no usage sensitive charge.

**Attribute: amac.usefreq1**

**Fullname:** User Frequent 1.

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**Attribute Description** User frequent usage event.

**Attribute: amac.usefreq[*]**

**Fullname:** User Frequent Event.

**Attribute Description** Usage frequency charge - for use of 'event'.

**Attribute: amac.actchrg**

**Fullname:** Activation Charge.

**Attribute Description** Usage charge for activation.

**Attribute: amac.dactchrg**

**Fullname:** Deactivation Charge.

**Attribute Description** Usage deactivation charge.

**Attribute: amac.duration**

**Fullname:** Duration charge.

**Attribute Description** Usage duration charge.

**Attribute: amac.change**

**Fullname:** Change parameter.

**Attribute Description** Change parameter charge.

**Attribute: mdrgroup**

**Fullname:** MDR group name.

**Attribute Description** This attribute is the default parameter for the MDR GROUP field in the RC/V MDR line/trunk parameter views.

If there is a group name entered in this attribute the group must not be packet MDR only (RLmdr_gp must be populated for this group name with at least one of the following attributes {orig_priv, in_priv, public} set to DBYES as well as the attribute pkt_mdr set to DBYES or DBNO). The group name is invalid if the pkt_mdr attribute equals DBYES and the other previous three attributes equal DBNO. The restriction applies only to packet MDR.

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# MDR_PORT

## 1. Description

Message Detail Recording (MDR) feature line/trunk parameter data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65531 |
| expected number of tuples | 211 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| density | 34 |
| l1 length of subkey 1 | 2 |
| p1 position of subkey 2 | 16 |
| l2 length of subkey 2 | 16 |
| p2 position of subkey 2 | 0 |
| ks key store | AUTO |

## 3. Field Layout

```
MDR_PORT    relid = 743   DBSTATIC   DBACC_CIND  DBPRAM    LPFPFG  RCMAP
     lport       DMLPORT      (ushort: 16)  <--- key, not stored
 (a) lpt_type    DMLPT_TYPE   (enum: 2)  <--- key, not stored
     feat_id     DMMCC_FID    (ushort)
     mdr_gpid    DMFACID      (ushort)
         User and Compacted Tuple Layout   MDR_PORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |   |                           |
  0 |              lport            | a |***************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             feat_id           |             mdr_gpid          |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     feat_id     DMMCC_FID    (ushort)
     mdr_gpid    DMFACID      (ushort)
           Stored Tuple Layout     MDR_PORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             feat_id           |             mdr_gpid          |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLmdr_port

**Relation Description** Message Detail Recording Port.

Message Detail Recording (MDR) feature line/trunk parameter data.

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MDR feature parameters assigned to a BRCS User (a User is defined to be an analog terminal, a trunk, or an ISDN User). line/trunk parameter data

When ever a tuple is added to this relation for a trunk member then a message should be printed for the switch personnel to go to the RC view 24.4 and look at the bit'mdruse'. If this bit is off then it must be turned on( 1 ), for the trunk group to which this trunk member belongs. This change in description is being added because of a new 5e5 feature.

**Attribute: lport**

**Fullname:** Logical Port

**Attribute Description** Logical port of the User being assigned the BRCS features. If lpt_type != LPT_BFG, RLmdr_port.lport must equal RLfc_line.lport (if a line) or RLfc_trunk.lport (if a trunk). The keys for RLfc_line & RLfc_trunk are:

```
RLfc_line.port  = RLlpt_pt(RLmdr_port.lport,RLmdr_port.lpt_type).port
RLfc_line.party = RLlpt_pt(RLmdr_port.lport,RLmdr_port,lpt_type).party
RLfc_trunk.port = RLlpt_pt(RLmdr_port.lport,RLmdr_port.lpt_type).port
If lpt_type     = LPT_BFG, then
```

RLmdr_port.lport contains a BFG group ID.

**Attribute: lpt_type**

**Fullname:** Logical Port Type

**Attribute Description** N/A

**Attribute: feat_id**

**Fullname:** Feature ID

**Attribute Description** A BRCS constructed feature id consists of two parts when class = FACBRCS and subclass = SCL_FEAT: a modular feature type (top 6 bits: bits 10 - 15) and an unique identifier (bottom 10 bits: bits 0 - 9). For an MDR constructed feature ID, the modular feature type must equal MFMDR (17 = 0x11), which is an enumeration of type DMMFTYPE. The unique identifier ranges from 1 to 1023 (0x1 to 0x3ff).

**Attribute: mdr_gpid**

**Fullname:** MDR Group ID

**Attribute Description** N/A

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# MDS_CF

## 1. Description

Message Desk Service (MDS) constructed feature options - used in SM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1023 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
MDS_CF      relid = 851   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     feat_id     DMMCC_FID    (ushort)  <--- key, not stored
 (a) mwi_scty    DMMC_BOOL    (enum: 2)
 (b) atnd_cvrg   DMBOOL       (enum: 1)
 (c) lwc_o       DMBOOL       (enum: 1)
 (d) lwc_io      DMBOOL       (enum: 1)
 (e) clwc        DMBOOL       (enum: 1)
 (f) mrd         DMBOOL       (enum: 1)
 (g) pod         DMBOOL       (enum: 1)
 (h) amwi        DMBOOL       (enum: 1)
 (i) vmwi        DMBOOL       (enum: 1)
 (j) mwi_dct     DMBOOL       (enum: 1)
 (k) aucsu       DMBOOL       (enum: 1)
        User and Compacted Tuple Layout     MDS_CF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            feat_id            |*******************************|
   |---------------+---------------+---------------+---------------|
   |   | | | | | | | | | |                                       |
 4 | a |b|c|d|e|f|g|h|i|j|k|***************************************|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
 (a) mwi_scty    DMMC_BOOL    (enum: 2)
 (b) atnd_cvrg   DMBOOL       (enum: 1)
 (c) lwc_o       DMBOOL       (enum: 1)
 (d) lwc_io      DMBOOL       (enum: 1)
 (e) clwc        DMBOOL       (enum: 1)
 (f) mrd         DMBOOL       (enum: 1)
 (g) pod         DMBOOL       (enum: 1)
 (h) amwi        DMBOOL       (enum: 1)
 (i) vmwi        DMBOOL       (enum: 1)
 (j) mwi_dct     DMBOOL       (enum: 1)
 (k) aucsu       DMBOOL       (enum: 1)
          Stored Tuple Layout   MDS_CF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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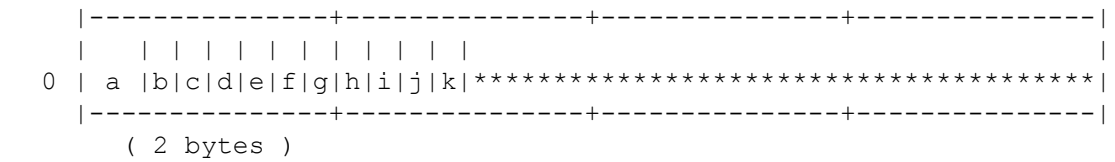


## 4. Population Rules for RLmds_cf

**Relation Description** Message Desk Service (MDS) constructed feature options.

**Attribute: feat_id**

**Fullname:** MDS constructed feature id

**Attribute Description** A BRCS constructed feature ID consists of two parts when class = FACBRCS and subclass = SCL_FEAT a modular feature type (top 6 bits 10 - 15) and an unique identifier (bottom 10 bits: bits 0 - 9). For an MDS constructed feature ID, the modular feature type must equal MFMDS (25 = 0x19), which is an enumeration of type DMMFTYPE. The unique identifier ranges from 1 to 1023 (0x1 to 0x3ff). Range: 0x6401 to 0x67ff (25601 to 26623)

```
Dependencies:
Verify that RLfacname has a tuple such that:
RLfacname.facid = feat_id
RLfacname.class = FACBRCS
RLfacname.subclass = SCL_FEAT
```

Verify that RLfid2name has a tuple keyed by: RLfacname.facid = feat_id RLfacname.class = FACBRCS RLfacname.subclass = SCL_FEAT

Verify that RLmds_opts has a tuple keyed by: RLmds_cf.feat_id

**Attribute: atnd_cvrg**

**Fullname:** attendant coverage indicator

**Attribute Description** Boolean value indicating whether attendant coverage is allowed.

Dependencies: If atnd_cvrg = DBYES, when assigning to a line/DN, a voice call forwarding feature must be assigned too (this rule is enforced in RLmds_port).

**Attribute: lwc_o**

**Fullname:** leave word calling outgoing

**Attribute Description** Boolean value indicating whether leave word calling outgoing is allowed. Assignable per DN/line.

Dependencies:
Verify that RLdaprlfnl or RLidp_dtre has a tuple for a given dial code such that:

```
RLdaprlfnl.action = ACN_LWCUSE or
RLidp_dtre.action = ACN_LWCUSE
```

If lwc_o = DBYES then, clwc must be DBYES. If lwc_o = DBYES then, lwc_io must be DBNO. If DBYES, then a non-zero ap_id must exist in the RLmds_grp at the assignment time.

**Attribute: lwc_io**

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**Fullname:** leave word calling incoming and outgoing

**Attribute Description** Boolean value indicating whether leave word calling incoming outgoing is allowed. Provided per primary DN basis.

Dependencies:
When assigned to an MLHG member that is not the first member verify that RLfc_line(port,party).locdn != 0.

```
Verify that RLdaprlfnl or RLidp_dtre has a tuple for
a given dial code such that:
RLdaprlfnl.action = ACN_LWCUSE or
RLidp_dtre.action = ACN_LWCUSE
```

If lwc_io = DBYES then, clwc must be DBYES. If lwc_io = DBYES then, lwc_o must be DBNO. If lwc_io = DBYES then, RLmds_cf.amwi || RLmds_cf.vmwi must be DBYES. If DBYES, then a non-zero ap_id must exist in the RLmds_grp at assignment time.

**Attribute: clwc**

**Fullname:** cancel leave word calling

**Attribute Description** Boolean value indicating whether cancel leave word calling is allowed. Assignable per DN/line.

Dependencies:
If clwc = DBYES then, RLmds_cf.lwc_io || RLmds_cf.lwc_o must be DBYES.

```
Verify that RLdaprlfnl or RLidp_dtre has a tuple for
a given dial code such that:
RLdaprlfnl.action = ACN_CLWCUSE or
RLidp_dtre.action =  ACN_CLWCUSE
RLmds_cf.lwc_io || RLmds_cf.lwc_o
must be DBYES.
```

If DBYES, then a non-zero ap_id must exist in the RLmds_grp at assignment time.

**Attribute: mrd**

**Fullname:** message retrieval display

**Attribute Description** Boolean value indicating whether message retrieval display is allowed. Is provided per primary DN basis.

Dependencies:
If DBYES, then a non-zero ap_id must exist in the RLmds_grp at assignment time.

**Attribute: pod**

**Fullname:** printout on demand

**Attribute Description** Boolean value indicating whether print-on demand is allowed. Provided per primary DN basis.

Dependencies:
Verify that RLdaprlfnl or RLidp_dtre has a tuple for a given dial code such that:

```
RLdaprlfnl.action = ACN_PODUSE or
```

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```
RLidp_dtre.action = ACN_PODUSE
```

If DBYES, then a non-zero ap_id must exist in the RLmds_grp at the assignment time.

**Attribute: amwi**

**Fullname:** audible message waiting indicator

**Attribute Description** Boolean value indicating whether audible message waiting indicator is assigned. Provided per primary DN basis.

Dependencies:
if DBYES, When assigned to an MLHG member that is not the first member verify that RLfc_line(port,party).locdn != 0.

If DBYES and atnd_cvrg = DBNO, then a non-zero ap_id must exist in the RLmds_grp at assignment time.

**Attribute: vmwi**

**Fullname:** visual message waiting indicator

**Attribute Description** Boolean value indicating whether visual message waiting indicator is assigned. Provided per primary DN basis.

Dependencies:
if DBYES, When assigned to an MLHG member that is not the first member verify that RLfc_line(port,party).locdn != 0.

If DBYES and atnd_cvrg = DBNO, then a non-zero ap_id must exist in the RLmds_grp at assignment time.

**Attribute: mwi_dct**

**Fullname:** message waiting indicator deactivation

**Attribute Description** Boolean value indicating whether message waiting deactivation is allowed. Provided per primary DN basis.

Dependencies:
if DBYES, When assigned to an MLHG member that is not the first member verify that RLfc_line(port,party).locdn != 0.

Verify that RLdaprlfnl or RLidp_dtre has a tuple for a given dial code such that:

```
RLdaprlfnl.action = ACN_DCTMWI or
RLidp_dtre.action =  ACN_DCTMWI
```

If mwi_dct = DBYES then, RLmds_cf.amwi || RLmds_cf.vmwi must be DBYES.

**Attribute: aucsu**

**Fullname:** auto call set up

**Attribute Description** Boolean value indicating whether auto call set-up is allowed. Provided per primary DN basis. It is assignable to the ISDN lines only, that is, RLfc_porttyp(port).servclass must be equal to FC_ISDN or FC_ISATND (enforced in RLmds_port).

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Dependencies:
if DBYES, When assigned to an MLHG member that is not the first member verify that (RLfc_line(port,party).locdn != 0 or that RLmds_cf.mrd = DBYES).

Verify that RLdaprlfnl or RLidp_dtre has a tuple for a given dial code such that:

```
RLdaprlfnl.action = ACN_AUCUSE or
RLidp_dtre.action =  ACN_AUCUSE
```

If DBYES, then a non-zero ap_id must exist in the RLmds_grp at assignment time.

**Attribute: mwi_scty**

**Fullname:** message waiting indicator security check option.

**Attribute Description** Enumerated value indicating whether MWI message security check is needed. Provided per primary DN basis.

If amwi or vmwi set to DBYES, then mwi_scty must be set to MC_YES or MC_NO. Else mwi_scty must be set to MC_NULL.

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# MDS_GRP

## 1. Description

This relation contains the message desk service group id.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| page level | 2 |

## 3. Field Layout

```
MDS_GRP     relid = 853   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP


     gcsrid      DMUNS16      (ushort)
     mdc_no      DMGRUPNM     (ushort: 13)
 (a) psswrd      DMBOOL       (enum: 1)
 (b) msrmnt      DMBOOL       (enum: 1)
 (c) grp_type    DMMSGRPTYP   (enum: 1)
     mds_grpid   DMMDSGRPN    (ushort: 10)      <--- key
     ap_id       DMAPZSITE    (ushort: 8)
     serv_id     DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout    MDS_GRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                           | | | |
  0 |              gcsrid           |          mdc_no           |a|b|c|
    |---------------+---------------+---------------+---------------|
    |                   |           |               |               |
  4 |     mds_grpid     |***********|     ap_id     |    serv_id    |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLmds_grp

**Relation Description**

```
        Message Desk Service (MDS) group id

        This relation provides MDS group id information.
```

**Attribute:**

```
        mds_grpid
```

**Fullname:**

```
        Message Desk Service group id
```

**Attribute Description:**

```
        MDS group id, is an identifier resulting from the conversion
        from an 8 character MDS group name using RLfacname. The group
```

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id must be assigned sequentially starting from 1. When an mds_grpid is freed-up, that position will be re-claimed before adding one more to the end of the list.

Dependencies:
A tuple must exist in this relation for each non-zero MDS group id in the RLmds_port relation.

Verify that RLfacname has a tuple such that:
  RLfacname.facid = mds_grpid
  RLfacname.class = FACMDS
  RLfacname.subclass = SCL_NULL

Verify that RLfid2name has a tuple keyed by:
  RLfid2name.facid = mds_grpid
  RLfid2name.class = FACMDS
  RLfid2name.subclass = SCL_NULL

**Attribute:**
gcsrid
**Fullname:**
business customer id
**Attribute Description:**
Dependencies:

A non-zero gcsrid is required for a MDS group with grp_type equal to MS_MSS.

A zero gcsrid is required for a MDS group with grp_type equal to MS_ISVM. Hence, with the introduction of ISVM in 5e7, gcsridis allowed to have a value of zero.

If a line is a member of an MDS group and an EDS group, the gcsrid of the EDS group must be the same as the gcsrid of the MDS group (provided that the grp_type equals MS_MSS) to which the line is assigned.

**Attribute:**
mdc_no
**Fullname:**
Message Desk Center number
**Attribute Description:**
If grp_type equals MS_MSS, then
  Verify that a tuple exists in RLrt_mhg such that:
  RLrt_mhg(mdc_no).grpnum = mdc_no
                  or RTH_ISAT or RTH_REGULAR
                  or RTH_LGREG or RTH_CIRCULAR
                  or RTH_LGCIR
  RLrt_mhg(mdc_no).mdc = DBYES

Verify that RLmdc_grp has a tuple such that:

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```
if RLmdc_grp.msc_scrn equals DBYES then
  RLmdc_grp(mdc_no).gcsrid* = gcsrid
endif

Verify that RLrc_msusr has a tuple such that:
  RLrc_msusr.mdc_no = mdc_no
    and there is only one mds_idxx such that:
  RLrc_msusr(mdc_no).mds_idxx = mds_grpid
    (where xx is a number between 00 thru 17)
endif

If grp_type equals MS_ISVM, then mdc_no must equal 0.
```

**Attribute:**
ap_id
**Fullname:**
Application Processor id
**Attribute Description:**

```
If RLrt_mhg = RTH_ISAT then, ap_id must equal 0

If ap_id is not zero then, verify that RLcmapdata has a
tuple such that:
  RLcmapdata.site_id = ap_id  and
  RLcmapdata.module is non-zero.

Verify that RLmdc_grp has a tuple such that:
  RLmdc_grp(mdc_no).ap_id = ap_id

If grp_type is equal to MS_ISVM, then ap_id must equal 0.
```

**Attribute:**
serv_id
**Fullname:**
service identifier
**Attribute Description:**

```
Service identifier, serv_id, is used to identify
the message service system that is providing
message service for a MSS group when more than
one message service is being provided by an
Applications Processor (AP).

If grp_type equals MS_ISVM, then serv_id must equal 0.
```

**Attribute:**
psswrd
**Fullname:**
password option
**Attribute Description:**

```
Boolean value to indicate whether the password
option is assigned.
```

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If grp_type equals MS_ISVM, then psswrd must equal DBNO.

**Attribute:**
msrmnt
**Fullname:**
measurement flag
**Attribute Description:**
Boolean value indicating whether or not
measurements are to be taken.
Dependencies:
If the tuple in RLms_ap has a edmsgp* such that
RLms_ap(MDS, DBNO).edmsgp* = mds_grpid, then
RLmds_grp.msrmnt = DBYES
else RLmds_grp.msrmnt = DBNO.

When deleting a tuple from this relation and
the msrmnt flag is set to DBYES then, zero
this edmsgp* and decrement the idscnt in the
RLms_ap(MDS, DBNO).

If grp_type equals MS_ISVM, then msrmnt must equal DBNO.

**Attribute:**
grp_type
**Fullname:**
MDS group type.
**Attribute Description:**
MDS group type identifier, grp_type, is used to identify
the group type of the associated MDS.

Dependencies:
The ISVM group will have a value of zero or DBNO for all
other attributes.

If grp_type = MS_MSS, then verify that the business customer id
is not equal to 0 and mdc_no is not equal to 0.

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# MDS_OPTS

## 1. Description

Message Desk Service (MDS) constructed feature options and defaults - used in AM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1023 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| intermediate page size | 256 |
| page level | 3 |

## 3. Field Layout

```
MDS_OPTS    relid = 850   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     feat_id     DMMCC_FID    (ushort)  <--- key
  (a) mwi_scty    DMMC_BOOL    (enum: 2)
  (b) atnd_cvrg   DMBOOL       (enum: 1)
  (c) lwc_o       DMBOOL       (enum: 1)
  (d) lwc_io      DMBOOL       (enum: 1)
  (e) clwc        DMBOOL       (enum: 1)
  (f) mrd         DMBOOL       (enum: 1)
  (g) pod         DMBOOL       (enum: 1)
  (h) amwi        DMBOOL       (enum: 1)
  (i) vmwi        DMBOOL       (enum: 1)
  (j) mwi_dct     DMBOOL       (enum: 1)
  (k) aucsu       DMBOOL       (enum: 1)
     mds_group   DMFACNAME    (array [ 8 ] of char )
         User, Compacted and Stored Tuple Layout   MDS_OPTS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |   | | | | | | | | | |       |
  0 |             feat_id             | a |b|c|d|e|f|g|h|i|j|k|*******|
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  4 |                           mds_group                             |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
  8 |                           mds_group                             |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLmds_opts

**Relation Description:** MDS constructed feature options and defaults.

MDS preconstructed features

```
/MSAAD - basic service, audible MWI, attendant call coverage and deactivate MWI
```

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```
 atnd_cvrg    DBYES
 lwc_o        DBNO
 lwc_io       DBNO
 clwc         DBNO
 mrd          DBNO
 pod          DBNO
 amwi         DBYES
 vmwi         DBNO
 mwi_dct      DBYES
 aucsu        DBNO
 mwi_scty     MC_YES

/MSAV - basic service, visual MWI and attendant call coverage
 atnd_cvrg    DBYES
 lwc_o        DBNO
 lwc_io       DBNO
 clwc         DBNO
 mrd          DBNO
 pod          DBNO
 amwi         DBNO
 vmwi         DBYES
 mwi_dct      DBNO
 aucsu        DBNO
 mwi_scty     MC_YES

/MSAIPAD - deluxe service, attendant call coverage, deactivate MWI,
           LWC-IO, print on demand and audible MWI
atnd_cvrg   DBYES
 lwc_o       DBNO
 lwc_io      DBYES
 clwc        DBYES
 mrd         DBNO
 pod         DBYES
 amwi        DBYES
 vmwi        DBNO
 mwi_dct     DBYES
 aucsu       DBNO
 mwi_scty    MC_YES

/MSAIPV - deluxe service, attendant call coverage, LWC-IO, print on
 demand and visual MWI
 atnd_cvrg   DBYES
 lwc_o       DBNO
 lwc_io      DBYES
 clwc        DBYES
 mrd         DBNO
 pod         DBYES
 amwi        DBNO
 vmwi        DBYES
 mwi_dct     DBNO
 aucsu       DBNO
 mwi_scty    MC_YES

/MSO - deluxe service, LWC-O
```

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```
 atnd_cvrg   DBNO
 lwc_o       DBYES
 lwc_io      DBNO
 clwc        DBYES
 mrd         DBNO
 pod         DBNO
 amwi        DBNO
 vmwi        DBNO
 mwi_dct     DBNO
 aucsu       DBNO
 mwi_scty    MC_NULL

/MSIPAD - deluxe service, deactivate MWI, LWC-IO, print on demand and
          audible MWI
 atnd_cvrg   DBNO
 lwc_o       DBNO
 lwc_io      DBYES
 clwc        DBYES
 mrd         DBNO
 pod         DBYES
 amwi        DBYES
 vmwi        DBNO
 mwi_dct     DBYES
 aucsu       DBNO
 mwi_scty    MC_YES

/MSIPV - deluxe service, LWC-IO, print on demand and visual MWI
 atnd_cvrg   DBNO
 lwc_o       DBNO
 lwc_io      DBYES
 clwc        DBYES
 mrd         DBNO
 pod         DBYES
 amwi        DBNO
 vmwi        DBYES
 mwi_dct     DBNO
 aucsu       DBNO
 mwi_scty    MC_YES

 /MSALL - deluxe service, attendant call coverage,  deactivate MWI, LWC-IO,
          print on demand, message retrieval, visual MWI and  auto call.
          This feature is assignable to ISDN lines only.
 atnd_cvrg   DBYES
 lwc_o       DBNO
 lwc_io      DBYES
 clwc        DBYES
 mrd         DBYES
 pod         DBYES
 amwi        DBNO
 vmwi        DBYES
 mwi_dct     DBYES
 aucsu       DBYES
 mwi_scty    MC_YES
```

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```
/MSIMPVA - deluxe service, LWC-IO, print on demand,  message retrieval,
           visual MWI and auto call. This feature is assignable to
           ISDN lines only.
atnd_cvrg   DBNO
lwc_o       DBNO
lwc_io      DBYES
clwc        DBYES
mrd         DBYES
pod         DBYES
amwi        DBNO
vmwi        DBYES
mwi_dct     DBNO
aucsu       DBYES
mwi_scty    MC_YES

/MSNONE - no options, the purpose of this feature is  to assign a BCID to
          a line.
 atnd_cvrg   DBNO
 lwc_o       DBNO
 lwc_io      DBNO
 clwc        DBNO
 mrd         DBNO
 pod         DBNO
 amwi        DBNO
 vmwi        DBNO
 mwi_dct     DBNO
 aucsu       DBNO
 mwi_scty    MC_NULL

/MS* - Message Desk Service Wild-Card Feature
 atnd_cvrg   DBYES
 lwc_o       DBNO
 lwc_io      DBYES
 clwc        DBYES
 mrd         DBYES
 pod         DBYES
 amwi        DBYES
 vmwi        DBYES
 mwi_dct     DBYES
 aucsu       DBYES
 mwi_scty    MC_YES

The following are the four new preconstructed features  introduced by ISVM.
/MSAAM - atnd_cvrg, amwi, mwi_dct.
 atnd_cvrg   DBYES
 lwc_o       DBNO
 lwc_io      DBNO
 clwc        DBNO
 mrd         DBNO
 pod         DBNO
 amwi        DBYES
 vmwi        DBNO
 mwi_dct     DBYES
 aucsu       DBNO
```

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```
 mwi_scty    MC_NO

/MSAVM - atnd_cvrg, vmwi, mwi_dct.
 atnd_cvrg   DBYES
 lwc_o       DBNO
 lwc_io      DBNO
 clwc        DBNO
 mrd         DBNO
 pod         DBNO
 amwi        DBNO
 vmwi        DBYES
 mwi_dct     DBYES
 aucsu       DBNO
 mwi_scty    MC_NO

/MSAAVM - atnd_cvrg, amwi, vmwi,mwi_dct.
 atnd_cvrg   DBYES
 lwc_o       DBNO
 lwc_io      DBNO
 clwc        DBNO
 mrd         DBNO
 pod         DBNO
 amwi        DBYES
 vmwi        DBYES
 mwi_dct     DBYES
 aucsu       DBNO
 mwi_scty    MC_NO

/MSAA - atnd_cvrg, amwi.
 atnd_cvrg   DBYES
 lwc_o       DBNO
 lwc_io      DBNO
 clwc        DBNO
 mrd         DBNO
 pod         DBNO
 amwi        DBYES
 vmwi        DBNO
 mwi_dct     DBNO
 aucsu       DBNO
 mwi_scty    MC_NO
```

**Attribute: feat_id**

**Fullname:** MDS constructed feature ID

**Attribute Description** A BRCS constructed feature ID consists of two parts when class = FACBRCS and subclass = SCL_FEAT a modular feature type (top 6 bits : bits 10-15) and an unique identifier (bottom 10 bits: 0-9). For an MDS constructed feature ID, the modular feature type must equal MFMDS (25 = 0x19), which is an enumeration of type DMMFTYPE. The unique identifier ranges from 1 to 1023 (0x1 to 0x3ff).

```
Dependencies:
Verify that RLfacname has a tuple such that:
RLfacname.facid = feat_id
```

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```
RLfacname.class = FACBRCS
RLfacname.subclass = SCL_FEAT

Verify that RLfid2name has a tuple keyed by:
RLfacname.facid  = feat_id
RLfacname.class = FACBRCS
RLfacname.subclass = SCL_FEAT

Verify that RLmds_cf has a tuple keyed by: RLmds_opts.feat_id
```

**Attribute: mds_group**

**Fullname:** message desk service group name

**Attribute Description** This attribute is the default parameter for MDS GROUP field in the RC/V line/trunk parameter views.

**Attribute: atnd_cvrg**

**Fullname:** attendant coverage

**Attribute Description** Boolean value indicating whether attendant coverage is allowed.

Dependencies:
If atnd_cvrg = DBYES, then when assigning this option to a line/DN, a voice call forwarding feature (fwd_cndtn is CFN_BUSY,CFN_IDLE,CFN_BSYIDL,CFN_PRCB, CFN_PRCI,CFN_PRCV,CFN_PPBUSY, or CFN_PPIDLE) must be assigned to the line/DN too (enforced in RLmds_port).

**Attribute: lwc_o**

**Fullname:** leave word calling outgoing

**Attribute Description** Boolean value indicating whether leave word calling outgoing is allowed.

```
Dependencies:
If DBYES, Verify that RLdaprlfnl or RLidp_dtre has
a tuple for a given dial code such that:
RLdaprlfnl.action = ACN_LWCUSE or
RLidp_dtre.action = ACN_LWCUSE
```

If lwc_o = DBYES then, lwc_io must be DBNO. If lwc_o = DBYES then, clwc must be DBYES.

**Attribute: lwc_io**

**Fullname:** leave word calling incoming and outgoing

**Attribute Description** Boolean value indicating whether leave word calling incoming outgoing is allowed. Provided per primary DN basis.

Dependencies:
If DBYES, When assigned to an MLHG member that is not the first member, verify that RLfc_line(port,party).locdn != 0. Verify that RLdaprlfnl or RLidp_dtre has a tuple for a given dial code such that:

```
RLdaprlfnl.action = ACN_LWCUSE or
RLidp_dtre.action = ACN_LWCUSE
```

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If lwc_io = DBYES then, lwc_o must be DBNO. If lwo_io = DBYES then, RLmds_opts.amwi || RLmds_opts.vmwi must be DBYES. If lwo_io = DBYES then, clwc must be DBYES.

**Attribute: clwc**

**Fullname:** cancel leave word calling

**Attribute Description** Boolean value indicating whether cancel leave word calling is allowed.

Dependencies:
If DBNO, RLmds_opts.lwc_o && RLmds_opts.lwc_io must be DBNO.

if DBYES, Verify that RLdaprlfnl or RLidp_dtre has a tuple for a given dial code such that:
```
RLdaprlfnl.action = ACN_CLWCUSE or
RLidp_dtre.action =  ACN_CLWCUSE
```

RLmds_opts.lwc_o || RLmds_opts.lwc_io must be DBYES.

**Attribute: mrd**

**Fullname:** message retrieval display

**Attribute Description** Boolean value indicating whether message retrieval display is allowed. Provided per primary DN basis.

**Attribute: pod**

**Fullname:** printout on demand

**Attribute Description** Boolean value indicating whether print on demand is allowed. Provided per primary DN basis.

Dependencies:
If DBYES, Verify that RLdaprlfnl or RLidp_dtre has a tuple for a given dial code such that:
```
RLdaprlfnl.action = ACN_PODUSE or
RLidp_dtre.action = ACN_PODUSE
```

**Attribute: amwi**

**Fullname:** audible message waiting indicator

**Attribute Description** Boolean value indicating whether audible message waiting indicator is assigned. Provided per primary DN basis.

Dependencies:
If DBYES, When assigned to an MLHG member that is not the first member, verify that RLfc_line(port,party).locdn != 0.

If DBYES and atnd_cvrg = DBNO, then a non-zero ap_id must exist in RLmds_grp at assignment time.

**Attribute: vmwi**

**Fullname:** visual message waiting indicator

**Attribute Description** Boolean value indicating whether visual message waiting indicator is

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assigned. Provided per primary DN basis.

Dependencies:
If DBYES, When assigned to an MLHG member that is not the first member, verify that RLfc_line(port,party).locdn != 0.

If DBYES and atnd_cvrg = DBNO, then a non-zero ap_id must exist in RLmds_grp at assignment time.

**Attribute: mwi_dct**

**Fullname:** message waiting indicator deactivation

**Attribute Description** Boolean value indicating whether message waiting deactivation is allowed. Provided per primary DN basis.

Dependencies:
If DBYES, When assigned to an MLHG member that is not the first member, verify that RLfc_line(port,party).locdn != 0. Verify that RLdaprlfnl or RLidp_dtre has a tuple for a given dial code such that:

```
RLdaprlfnl.action = ACN_DCTMWI or
RLidp_dtre.action =  ACN_DCTMWI
RLmds_opts.amwi || RLmds_opts.vmwi must be DBYES.
```

**Attribute: aucsu**

**Fullname:** Auto Call set up

**Attribute Description** Boolean value indicating whether auto call set-up is allowed. Provided per primary DN basis but, it can be activated from any call appearance on a terminal which this option is assigned to it's primary DN.

This option is assignable only to ISDN lines, that is, RLfc_porttyp(port).servclass must be FC_ISDN or FC_ISATND. This rule is enforced in RLmds_port.

Dependencies:

```
If DBYES, When assigned to an MLHG member that is not the
first member, verify that (RLfc_line(port,party).locdn != 0
or that RLmds_opts.mrd = DBYES).
```

Verify that RLdaprlfnl or RLidp_dtre has a tuple for a given dial code such that:

```
RLdaprlfnl.action = ACN_AUCUSE or
RLidp_dtre.action =  ACN_AUCUSE
```

**Attribute: mwi_scty**

**Fullname:** message waiting indicator security check option.

**Attribute Description** Enumerated value indicating whether MWI message security check is needed. Provided per primary DN basis.

If amwi or vmwi set to DBYES, then mwi_scty must be set to MC_YES or MC_NO.

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# MDS_PORT

## 1. Description

Message desk service line parameter.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 115200 |
| expected number of tuples | 75 |
| density | 63 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| corcable relation | DBYES |
| foldtype | DBGC31 |

## 3. Field Layout

```
MDS_PORT    relid = 879   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     feat_id     DMMCC_FID    (ushort)  <--- key
     ltm_idx     DMLTM_IDX    (ulong: 16)  <--- key
     mds_grpid   DMMDSGRPN    (ushort: 10)
 (a) ltm_type    DMLTM_TYPE   (enum: 1)  <--- key
 (b) vmwi        DMBOOL       (enum: 1)
 (c) amwi        DMBOOL       (enum: 1)
     lead_module  DMMODULE     (ushort: 8)  <--- key
         User, Compacted and Stored Tuple Layout   MDS_PORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             feat_id           |             ltm_idx           |
    |---------------+---------------+---------------+---------------|
    |                     | | | |     |                |                |
  4 |     mds_grpid     |a|b|c|*****|  lead_module   |****************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLmds_port

**Relation Description** This relation provides the MDS group ID (mds_grpid), the audible message waiting indicator (amwi) status indicator, and the visual MWI (vmwi) status indicator.

For BFG purposes, MDS feature parameter type is LINE. Therefore, BFG pseudo port tuples will not be created for the port assigned to a BFG. Only individual port tuples are created for BFG assigned ports.

With the introduction of DTC in 5E6, multiple MSS features, maximum of four, may be assigned to a single port as long as they have different feature IDs.

The addition/removal of an MDS feature from an ISDN line impacts the value of the RLspid.fip_req attribute. See the RLspid poprules for further details."

**Attribute: lead_module**

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**Fullname:** lead module

**Attribute Description** Indicates the lead module.

**Attribute: ltm_type**

**Fullname:** logical termination index type

**Attribute Description** Indicates the logical termination index type in use.

**Attribute: ltm_idx**

**Fullname:** logical termination index

**Attribute Description** Attribute ltm_idx has a domain range that starts with 0. In this relation, the ltm_idx range starts with 1. As discussed in RLrc_qidx, the existence of an index implies the value 1 or greater. If no index is defined, RLrc_qidx(sm, ltm_type) would contain an index value of 0 and no tuple would exist in this relation. Therefore, ltm_idx must be greater than 0 in this relation.

```
Dependencies:
If ltm_type is equal to LTM_OTHER, then verify
there is an entry in the RLltm_port such that:
   RLltm_port(ltm_idx) = ltm_idx
Verify that a tuple exists in RLfc_line such that:
   RLfc_line(RLltm_port(ltm_idx),
   RLltm_port(party)) = RLltm_port(ltm_idx).port
If ltm_type is equal to LTM_OTHER, then verify that:
   RLfc_line(RLltm_port(ltm_idx),
        RLltm_port(party)).dn_bfg = DBYES or
   RLfc_line(RLltm_port(ltm_idx),
        RLltm_port(party)).brc_dn = DBYES.
If ltm_type is equal to LTM_ISDN, then verify that:
   RLis_line(lead_module, ltm_idx).dn_bfg = DBYES or
   RLis_line(lead_module, ltm_idx).brc_dn = DBYES.
If ltm_type is equal to LTM_ISDN then a tuple
must exist in the RLis_line relation such that:
   RLis_line(lead_module, ltm_idx).lead_module = lead_module and
   RLis_line(lead_module, ltm_idx).ltm_idx = ltm_idx
```

**Attribute: feat_id**

**Fullname:** MDS constructed feature ID

**Attribute Description** A BRCS constructed feature ID consists of two parts when class = FACBRCS and subclass = SCL_FEAT a modular feature type (top 6 bits 10 - 15) and an unique identifier (bottom 10 bits: bits 0 - 9). For an MDS constructed feature ID, the modular feature type must equal MFMDS (25 = 0x19), which is an enumeration of type DMMFTYPE. The unique identifier ranges from 1 to 1023 (0x1 to 0x3ff).

```
Dependencies:
Verify that RLfacname has a tuple such that:
    RLfacname.facid = feat_id
    RLfacname.class = FACBRCS
    RLfacname.subclass = SCL_FEAT
```

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```
Verify that RLdn_feats has a tuple such that:
    RLdn_feats(lead_module, ltm_type, ltm_idx).ftent[i].fid = feat_id
MLHG with the MUPH hunt type can not be assigned the vmwi option,
that is, RLmds_opts(feat_id).vmwi must be DBNO.  A DN belongs to a
MUPH MLHG if:
    ltm_type is equal to LTM_OTHER and
    RLfc_porttyp(port).hunt is equal to DBYES and
    hunt type in the:
    RLrt_mhg(RLpggpmap(port).portgrp.grpnum).htype
        is equal to RTH_MUPH.

Verify that RLmds_opts has a tuple such that:
    RLmds_opts.feat_id = feat_id.
When assigning a MDS feat_id with atnd_cvrg option
    (that is, RLmds_opts(feat_id).atnd_cvrg is equal to DBYES),
    verify that a CF feature is also assigned to the line/DN.
If RLmds_opts(feat_id).vmwi is equal to DBYES and assigning
the feat_id to an analog line, that is,
    ltm_type is equal to LTM_OTHER or
    ltm_type is equal to LTM_ISDN and
    RLfc_porttyp(RLlpt_pt(RLis_line(lead_module,
       ltm_idx).lead_lport,lpt_type=LPT_ISDN).port).sh_analog
    is equal to  DBYES then,
verify that at least five tuples exists in the RLxcvr_ckt
relation  on the lead_module SM that can be used for VBS.

Verify when RLmds_opts(feat_id).vmwi = DBYES and
    RLmds_opts(feat_id).atnd_cvrg = DBNO that
    RLmds_grp(mds_grpid).ap_id != 0, provided that the
       associated group type is MS_MSS.

Verify when RLmds_opts(feat_id).amwi = DBYES and
    RLmds_opts(feat_id).atnd_cvrg = DBNO that
    RLmds_grp(mds_grpid).ap_id != 0, provided that the
       associated group type is MS_MSS.
For the Modular Feature Type of MFMDS,
    RLdn_feats.ftent[n].ath will equal DBNO.
New rule for DTC introduced in 5E6:
A maximum of 4 fids may be assigned to a port.  Namely,
int count:  /* counter for features on DN  */
count := 0:
For every tuple in RLmds_port on sm(GL_pcrid)
begin
if (((RLmds_port.lead_module = lead_module)
and (RLmds_port.ltm_type = ltm_type))
and (RLmds_port.ltm_idx = ltm_idx)) then
begin
count := count + 1:
end
 end
if ( count > 4) then
begin
error (Maximum features exceeded!):
end
```

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```
New rule for DTC in 5E6:
When RLmds_opts(feat_id).lwc_o  = DBYES or
RLmds_opts(feat_id).lwc-io = DBYES,
verify that there are no other MSS features assigned
to this port that have either the lwc_o or lwc_io
feature options.  Namely,
if (RLmds_opts(feat_id).lwc_o  = DBYES or
RLmds_opts(feat_id).lwc-io = DBYES) then
begin
For all tuples in RLmds_port
where (RLmds_port.lead_module = lead_module
and RLmds_port.ltm_type = ltm_type
and RLmds_port.ltm_idx = ltm_idx
and RLmds_port.feat_id != feat_id)
begin
find exactly (1) tuple in RLmds_opts
where RLmds_opts.feat_id equals RLmds_port.feat_id
when found
begin
RLmds_opts(fid).lwc_o  must equal DBNO
and
RLmds_opts(fid).lwc_io must equal DBNO
end
end
end
New rule for DTC in 5E6:
If multiple features are assigned to the same port
and if these features have the mrd option,
then the ap_id's in RLmds_grp(RLmds_port.mds_grpid)
for these features must be different.
Namely,
int fid, grp: fid := RLmds_port.feat_id:
grp := RLmds_port.mds_grpid:
for all tuples in RLmds_port
where (RLmds_port.lead_module = lead_module
and RLmds_port.ltm_type    = ltm_type
and RLmds_port.ltm_idx     = ltm_idx
and RLmds_port.feat_id    != fid)
begin
if (RLmds_opts(feat_id).mrd = DBYES and
RLmds_opts(fid).mrd     = DBYES)
then begin RLmds_grp(mds_grpid).ap_id
must_not_equal
RLmds_grp(grp).ap_id
end
end
New rule for DTC in 5E6:
If multiple features are assigned to the same port and
if these features have the pod option,
then the ap_id's in RLmds_grp(RLmds_port.mds_grpid)
for these features must be different.
Namely,
int fid, grp:
fid := RLmds_port.feat_id:
```

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```
grp := RLmds_port.mds_grpid:
for all tuples in RLmds_port
where (RLmds_port.lead_module = lead_module
and RLmds_port.ltm_type    = ltm_type
and RLmds_port.ltm_idx     = ltm_idx
and RLmds_port.feat_id    != fid)
begin
if (RLmds_opts(feat_id).pod = DBYES and
RLmds_opts(fid).pod     = DBYES) then
begin
RLmds_grp(mds_grpid).ap_id
must_not_equal
RLmds_grp(grp).ap_id
end
end
```

**Attribute: mds_grpid**

**Fullname:** message desk service group ID

**Attribute Description** MDS group ID (10 bits: bits 0-9), is an identifier resulting from the conversion from an 8 character MDS group name using RLfacname. The mds_grpid is arranged sequentially starting at 1. When an mds_grpid is freed-up, that position will be re-claimed before adding one more to the end of the list.

```
Dependencies:
Verify that a tuple exists in the RLfacname
relation such that:
RLfacname.facid = mds_grpid.
(compare RLfacname.facid low order bits, bits0-9)
RLfacname.class = FACMDS
RLfacname.subclass = SCL_NULL
```

Verify that RLmds_grp has a tuple such that: RLmds_grp.mds_grpid = mds_grpid

Verify that RLmds_opts has a tuple such that: RLmds_opts(feat_id) = feat_id and in that tuple if any of the following bits: lwc_io, lwc_o, mrd, pod or aucsu is equal to DBYES then the ap_id in the RLmds_grp(mds_grpid) relation must be non-zero.

If the aucsu bit in the RLmds_opts(feat_id) tuple is equal to DBYES then:
RLrc_lcc(RLrc_oeinfo(port, portmod, party).lcc, RLrc_oeinfo(port, portmod, party).rax).servclass must be equal to FC_ISDN or FC_ISATND. To find the port if ltm_type is equal to LTM_OTHER then:
port = RLltm_port(ltm_idx).port, if ltm_type is equal to LTM_ISDN then:
port=RLlpt_pt(RLis_line(lead_module, ltm_idx).lead_lport, lpt_type=LPT_ISDN).port

If ltm_type is equal to LTM_ISDN and any of the following bits: lwc_io, mrd, pod, amwi, vmwi, mwi_dct or aucsu is equal to DBYES in the RLmds_opts(feat_id), then verify that:
RLis_line(lead_module, ltm_idx).primary is equal to DBYES.

New Rule introduced in 5E6: When multiple MSS features are assigned to a line and the ap_id's in the assigned MSS groups are identical, then the serv_id of an MSS group may not be zero and must be different from the serv_id's of the other MSS groups, provided that the associated group type is MS_MSS. Namely,

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int fid, grp: fid := RLmds_port.feat_id: grp := RLmds_port.mds_grpid: for all tuples in RLmds_port where (RLmds_port.lead_module = lead_module and RLmds_port.ltm_type = ltm_type and RLmds_port.ltm_idx = ltm_idx and RLmds_port.feat_id != fid) begin if (RLmds_grp(grp).ap_id equals RLmds_grp(mds_grpid).ap_id) then begin ((RLmds_grp(mds_grpid).serv_id must_not_equal 0) and (RLmds_grp(grp).serv_id must_not_equal 0)) and (RLmds_grp(grp).serv_id must_not_equal RLmds_grp(mds_grpid).serv_id)) end end

New Rule Introduced in 5E7: If the MDS group id is associated with an ISVM group, then the associated RLmds_opts.mwi_scty must equal MC_NO and RLmds_opts.lwc_o, RLmds_opts.lwc_io, RLmds_opts.clwc, RLmds_opts.mrd, RLmds_opts.pod, and RLmds_opts.aucsu must all equal DBNO.

**Attribute: vmwi**

**Fullname:** visual message waiting indicator

**Attribute Description** This bit is always set to DBNO at the time the tuple is created via ODA or RC. The status of this bit must be set to DBNO across ODA retrofit or growth processing.

**Attribute: amwi**

**Fullname:** audible message waiting indicator

**Attribute Description** This bit is always set to DBNO at the time the tuple is created via ODA or RC. The status of this bit must be set to DBNO across ODA retrofit or growth processing.

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# MEASDES

## 1. Description

Measurements Designation Table for 800 Access calls.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTATIC |
| foldtype | DBGC31 |

## 3. Field Layout

```
MEASDES     relid = 2172  DBSTATIC   DBACC_HASH  DBPRAM    LR      NULL
     oaff2       DMUSHORT     (ushort)
     oaff3       DMUSHORT     (ushort)
     measlabl    DMCHAR7      (array [ 7 ] of char )
     measidx     DMUNS7       (ushort: 7)  <--- key
 (a) oaff1       DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout    MEASDES
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             oaff2             |             oaff3             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           measlabl                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                               |             | |
  8 |                   measlabl                    |   measidx   |a|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLmeasdes

**Relation Description** Measurements designation table.

Relation is used to associate the measurements index with a label for 800 Access calls.

end relation;

**Attribute: measidx**

**Fullname:** Measurements index

**Attribute Description** Index into measurements data for 800 access calls.

**Attribute: measlabl**

**Fullname:** Measurements label

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**Attribute Description** Label associated with measurements data index.

**Attribute: oaff1**

**Fullname:** Spare

**Attribute Description** Unused

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# MEASFLTR

## 1. Description

Specifies the coefficients for filters to measure tone detections.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 60 |
| expected number of tuples | 35 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCDATA |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
MEASFLTR    relid = 2165  DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCDATA
     filterid    DMFILTERID   (enum: 6)  <--- key
     filtercnt   DMUNS6       (ushort: 6)
     filcoe1     DMHEX16      (ushort)
     filcoe2     DMHEX16      (ushort)
     filcoe3     DMHEX16      (ushort)
     filcoe4     DMHEX16      (ushort)
     filcoe5     DMHEX16      (ushort)
     filcoe6     DMHEX16      (ushort)
     filcoe7     DMHEX16      (ushort)
     filcoe8     DMHEX16      (ushort)
     filcoe9     DMHEX16      (ushort)
     filcoe10    DMHEX16      (ushort)
     filcoe11    DMHEX16      (ushort)
     filcoe12    DMHEX16      (ushort)
     filcoe13    DMHEX16      (ushort)
     filcoe14    DMHEX16      (ushort)
     filcoe15    DMHEX16      (ushort)
     filcoe16    DMHEX16      (ushort)
     filcoe17    DMHEX16      (ushort)
     filcoe18    DMHEX16      (ushort)
     filcoe19    DMHEX16      (ushort)
     filcoe20    DMHEX16      (ushort)
     filcoe21    DMHEX16      (ushort)
     filcoe22    DMHEX16      (ushort)
     filcoe23    DMHEX16      (ushort)
     filcoe24    DMHEX16      (ushort)
     filcoe25    DMHEX16      (ushort)
     filcoe26    DMHEX16      (ushort)
     filcoe27    DMHEX16      (ushort)
     filcoe28    DMHEX16      (ushort)
     filcoe29    DMHEX16      (ushort)
     filcoe30    DMHEX16      (ushort)
     filcoe31    DMHEX16      (ushort)
     filcoe32    DMHEX16      (ushort)
     filcoe33    DMHEX16      (ushort)
     filcoe34    DMHEX16      (ushort)
```

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```
    filcoe35    DMHEX16      (ushort)
    filcoe36    DMHEX16      (ushort)
    filcoe37    DMHEX16      (ushort)
    filcoe38    DMHEX16      (ushort)
    filcoe39    DMHEX16      (ushort)
    filcoe40    DMHEX16      (ushort)
    filcoe41    DMHEX16      (ushort)
    filcoe42    DMHEX16      (ushort)
    filcoe43    DMHEX16      (ushort)
    filcoe44    DMHEX16      (ushort)
    filcoe45    DMHEX16      (ushort)
    filcoe46    DMHEX16      (ushort)
    filcoe47    DMHEX16      (ushort)
    filcoe48    DMHEX16      (ushort)
    filcoe49    DMHEX16      (ushort)
    filcoe50    DMHEX16      (ushort)
        User, Compacted and Stored Tuple Layout   MEASFLTR
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |           |           |       |                               |
 0 |  filterid | filtercnt |*******|            filcoe1            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |            filcoe2            |            filcoe3            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |            filcoe4            |            filcoe5            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |            filcoe6            |            filcoe7            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |            filcoe8            |            filcoe9            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |            filcoe10           |            filcoe11           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
24 |            filcoe12           |            filcoe13           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
28 |            filcoe14           |            filcoe15           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
32 |            filcoe16           |            filcoe17           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
36 |            filcoe18           |            filcoe19           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
40 |            filcoe20           |            filcoe21           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
```

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```
 44 |            filcoe22           |            filcoe23           |
    |-------------------------------+-------------------------------|
    |                               |                               |
 48 |            filcoe24           |            filcoe25           |
    |-------------------------------+-------------------------------|
    |                               |                               |
 52 |            filcoe26           |            filcoe27           |
    |-------------------------------+-------------------------------|
    |                               |                               |
 56 |            filcoe28           |            filcoe29           |
    |-------------------------------+-------------------------------|
    |                               |                               |
 60 |            filcoe30           |            filcoe31           |
    |-------------------------------+-------------------------------|
    |                               |                               |
 64 |            filcoe32           |            filcoe33           |
    |-------------------------------+-------------------------------|
    |                               |                               |
 68 |            filcoe34           |            filcoe35           |
    |-------------------------------+-------------------------------|
    |                               |                               |
 72 |            filcoe36           |            filcoe37           |
    |-------------------------------+-------------------------------|
    |                               |                               |
 76 |            filcoe38           |            filcoe39           |
    |-------------------------------+-------------------------------|
    |                               |                               |
 80 |            filcoe40           |            filcoe41           |
    |-------------------------------+-------------------------------|
    |                               |                               |
 84 |            filcoe42           |            filcoe43           |
    |-------------------------------+-------------------------------|
    |                               |                               |
 88 |            filcoe44           |            filcoe45           |
    |-------------------------------+-------------------------------|
    |                               |                               |
 92 |            filcoe46           |            filcoe47           |
    |-------------------------------+-------------------------------|
    |                               |                               |
 96 |            filcoe48           |            filcoe49           |
    |-------------------------------+-------------------------------|
    |                               |                               |
100 |            filcoe50           |*******************************|
    |-------------------------------+-------------------------------|
      ( 104 bytes )
domain alMEASFLTR   struct  (3 sub-attributes)
        filterid    .0fake       (enum)
        filtercn    .1.fake      (ushort: 6)
        filcoe      .2.fake      (array [ 50 ] of unsigned short )

        Structure Layout      alMEASFLTR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
```

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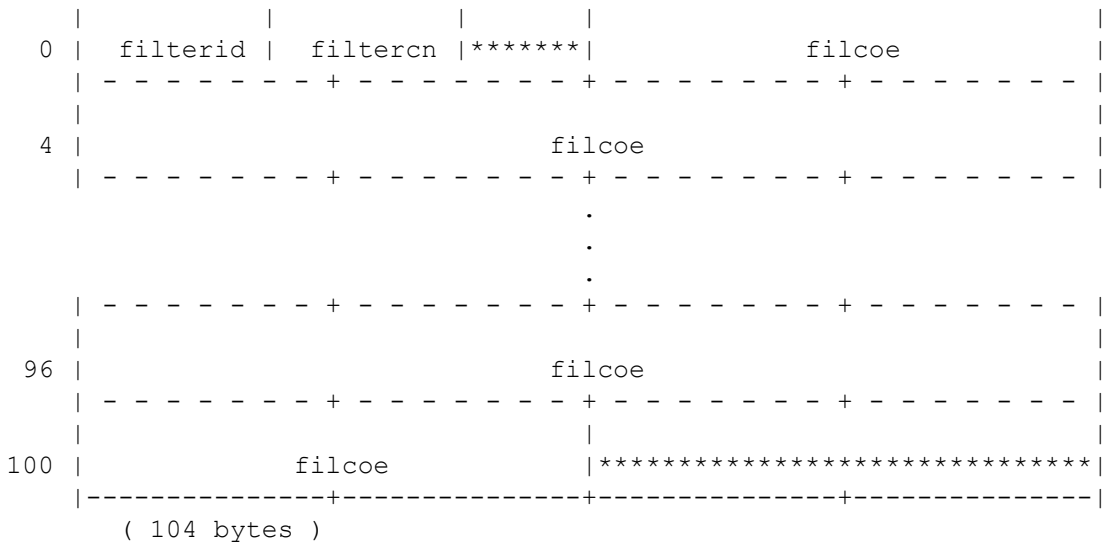


## 4. Population Rules for RLmeasfltr

**Relation Description** Terminal Maintenance Filter.

This relation specifies the coefficients to the filters used to detect the tones at the GDSF. This relation is market dependent on a per country basis and so not changed through RC/V. The key into this relation is filterid which has a domain of DMfilterid. The attributes are 50 unsigned 16 bit integers (domain DMHEX16) which correspond to 17, 32 bit DSP32 floating point filter coefficients. One of the coefficients is a gain factor, while the remaining 16 are used to produce four cascaded four-coefficient biquadratic sections.

**Attribute: filterid**

**Fullname:** Filter Identification

**Attribute Description** This attribute is the key to the relation and defines the identity of the filter.

**Attribute: filtercnt**

**Fullname:** Number of active filter coefficients

**Attribute Description** This attribute indicates number of active filter coefficients exist.

**Attribute: filcoe[*]**

**Fullname:** Coefficients for the filter.

**Attribute Description** This attribute defines one of the coefficients for the filter.

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# MEETME

## 1. Description

This relation contains those NPA's for which part or all of the NXX's can be restricted from using meet-me *Alliance*® teleconferencing.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
MEETME      relid = 927   DBSTATIC   DBACC_LIN   DBPRAM    FG      NULL
     npa          DMNPA         (array [ 3 ] of char )  <--- key
 (a) allrest      DMBOOL        (enum: 1)
     bits00       DMOAH32       (ulong)
     bits01       DMOAH32       (ulong)
     bits02       DMOAH32       (ulong)
     bits03       DMOAH32       (ulong)
     bits04       DMOAH32       (ulong)
     bits05       DMOAH32       (ulong)
     bits06       DMOAH32       (ulong)
     bits07       DMOAH32       (ulong)
     bits08       DMOAH32       (ulong)
     bits09       DMOAH32       (ulong)
     bits10       DMOAH32       (ulong)
     bits11       DMOAH32       (ulong)
     bits12       DMOAH32       (ulong)
     bits13       DMOAH32       (ulong)
     bits14       DMOAH32       (ulong)
     bits15       DMOAH32       (ulong)
     bits16       DMOAH32       (ulong)
     bits17       DMOAH32       (ulong)
     bits18       DMOAH32       (ulong)
     bits19       DMOAH32       (ulong)
     bits20       DMOAH32       (ulong)
     bits21       DMOAH32       (ulong)
     bits22       DMOAH32       (ulong)
     bits23       DMOAH32       (ulong)
     bits24       DMOAH32       (ulong)
         User, Compacted and Stored Tuple Layout MEETME
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               | |             |
  0 |                      npa                      |a|*************|
    |---------------+---------------+---------------+---------------|
```

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```
    |                                                                   |
  4 |                           bits00                                  |
    |-------------+-------------+-------------+-------------|
    |                                                                   |
  8 |                           bits01                                  |
    |-------------+-------------+-------------+-------------|
    |                                                                   |
 12 |                           bits02                                  |
    |-------------+-------------+-------------+-------------|
                                  .
                                  .
                                  .
    |-------------+-------------+-------------+-------------|
    |                                                                   |
 96 |                           bits23                                  |
    |-------------+-------------+-------------+-------------|
    |                                                                   |
100 |                           bits24                                  |
    |-------------+-------------+-------------+-------------|
       ( 104 bytes )
domain alMEETME   struct  (3 sub-attributes)
         npa         .1.fake      (array [ 3 ] of char )
 (a)     allrest     .0fake       (enum)
         bitsxx      .2.fake      (array [ 25 ] of unsigned long )

         Structure Layout      alMEETME
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |-------------+-------------+-------------+-------------|
    |                                                 | |             |
  0 |                     npa                         |a|*************|
    |-------------+-------------+-------------+-------------|
    |                                                                   |
  4 |                           bitsxx                                  |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                   |
  8 |                           bitsxx                                  |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                  .
                                  .
                                  .
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                   |
 96 |                           bitsxx                                  |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                   |
100 |                           bitsxx                                  |
    |-------------+-------------+-------------+-------------|
       ( 104 bytes )
```

## 4. Population Rules for RLmeetme

**Relation Description** This relation contains those NPA's for which part or all of the NXX's can be restricted from using meet-me *Alliance* ® teleconferencing.

**Attribute: npa**

**Fullname:** NPA

**Attribute Description** This is an NPA served by this OSPS for which some NXXs are restricted from originating meet-me *Alliance* ® teleconferencing calls.

**Attribute: allrest**

**Fullname:** Allrest

**Attribute Description** This is a boolean flag which indicates if all NXXs are restricted (DBYES) or just some (or none) (DBNO).

**Attribute: bits[*]**

**Fullname:** Bits

**Attribute Description** These are 800 boolean flags stored in 25 32-bit words, with a bit being a flag for each NXX within the NPA to indicate whether the NXX is restricted (1) or not (0). The low order bits are populated with boolean status of lower NXXs in ascending order. Thus NXXs 200 to 231 will correspond to bit 0 to bit 31 within the attribute bits00.

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# MFC_TYPE

## 1. Description

This relation is used to characterize the type of MFC signaling protocol on an active version by version basis.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 1 |

## 3. Field Layout

```
MFC_TYPE    relid = 672   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     version     DMDIGSIG     (enum: 5)  <--- key
  (a) mfc_type    DMMFC_TYPE   (enum: 2)
  (b) snd_eop_b   DMBOOL       (enum: 1)
  (c) cut_type    DMCUT_TYPE   (enum: 2)
  (d) snd_req_nacc  DMBOOL       (enum: 1)
  (e) set_spch    DMBOOL       (enum: 1)
         User and Compacted Tuple Layout   MFC_TYPE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |          |   | |   | | |                                       |
  0 | version | a |b| c |d|e|***************************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
     version     DMDIGSIG     (enum: 5)  <--- key
  (a) mfc_type    DMMFC_TYPE   (enum: 2)
  (b) snd_eop_b   DMBOOL       (enum: 1)
  (c) cut_type    DMCUT_TYPE   (enum: 2)
  (d) snd_req_nacc  DMBOOL       (enum: 1)
  (e) set_spch    DMBOOL       (enum: 1)
           Stored Tuple Layout     MFC_TYPE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |          |   | |   | | |                                       |
  0 | version | a |b| c |d|e|***************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLmfc_type

There are no population rules for this relation.

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# MH_TSLOT

## 1. Description

This relation specifies which channels and time slots are used in a particular SM by a given Message Handler (MH).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 48 |
| expected tuples in relation | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
MH_TSLOT    relid = 2095  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCDATA
     sm          DMMODULE     (ushort: 8)  <--- key, not stored
 (a) mh_num      DMMH_NUM     (ushort: 2)  <--- key, not stored
     ch_used     DMCH_USED    (ulong)
     ts_used     DMTS_USED    (ulong)
         User and Compacted Tuple Layout   MH_TSLOT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                |   |                                          |
  0 |       sm       | a |******************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             ch_used                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             ts_used                           |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
     ch_used     DMCH_USED    (ulong)
     ts_used     DMTS_USED    (ulong)
           Stored Tuple Layout     MH_TSLOT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                             ch_used                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             ts_used                           |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLmh_tslot

**Relation Description:** This relation indicates which SPYDER-T time slots and channels are allocated to a given MH.

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**Attribute: sm**

**Fullname:** Switch Module Number

**Attribute Description** This attribute identifies the SM where the MH is located.

**Attribute: mh_num**

**Fullname:** Message Handler Unit Number

**Attribute Description** This attribute identifies the message handler that is equipped in the SM.

**Attribute: ch_used**

**Fullname:** Channel usage bitmap

**Attribute Description** This attribute is a bitmap containing 32 bits that specifies whether the associated SPYDER-T channel is allocated in the MH. If the associated bit is a 1, then the channel is assigned in the MH. For example if bits 1, 4, and 20 are set to 1, then channels 1, 4, and 20 are allocated to peripherals.

**Attribute: ts_used**

**Fullname:** Timeslot usage bitmap

**Attribute Description** This attribute is a bitmap containing 32 bits that specifies whether the associated SPYDER-T time slot is allocated to a channel. If the associated bit is a 1, then the time slot is assigned in the MH. For example if bits 2, 6, and 11 are set to 1, then time slots 2, 6, and 11 are allocated to peripherals.

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# MH_UNIT

## 1. Description

This relation maps from Message Handler (MH) and channel to its associated peripheral unit. This relation provides the inverse mapping of RLunit_mh.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8 |
| expected tuples in relation | 2 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | PCmhunit_trg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
MH_UNIT     relid = 2100  DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL
     unitnumber  DMUNITNO     (ushort: 8)
     unittype    DMUNITTYPE   (enum: 7)
     channel     DMCHANNEL    (ushort: 5)     <--- key
     serv_grp    DMSG         (ushort: 5)
 (a) protocol    DMPM_PROT    (enum: 2)
 (b) mh_num      DMMH_NUM     (ushort: 2)     <--- key
     mhts_used   DMTS_USED    (ulong)
         User, Compacted and Stored Tuple Layout    MH_UNIT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |             | |         |         |   |   |   |
  0 |   unitnumber  |   unittype  |*| channel | serv_grp| a | b |***|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                          mhts_used                            |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLmh_unit

**Relation Description** Message Handler to Peripheral Unit

This relation associates a Message Handler with a peripheral unit. It is the reverse mapping of the RLunit_mh relation. For each entry in RLmh_unit there must be an associated entry in RLunit_mh.

**Attribute: mh_num**

**Fullname:** Message Handler Number

**Attribute Description** This attribute identifies the Message Handler that is equipped in the SM.

**Attribute: channel**

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**Fullname:** MH Channel Number

**Attribute Description** This attribute identifies the logical channel number in the MH. The range is 0 through 31. Channel 0 is not assigned by RC/V or ODA. It is used in the MH to associate all the unused timeslots.

**Attribute: unittype**

**Fullname:** Peripheral Unit Type

**Attribute Description** The type of peripheral unit that uses the MH channel.

**Attribute: unitnumber**

**Fullname:** unit number

**Attribute Description** The unit number that identifies the peripheral unit.

**Attribute: serv_grp**

**Fullname:** Service Group number

**Attribute Description** Service group of the peripheral unit where the MH is connected.

**Attribute: protocol**

**Fullname:** Protocol

**Attribute Description** peripheral messaging protocol used on the channel

**Attribute: mhts_used**

**Fullname:** MH Timeslot Usage Map

**Attribute Description** This attribute is a bitmap containing 32 bits that specifies whether the associated Spyder timeslot is included in the logical channel specified by the "channel" attribute. If the associated bit is 1, then that timeslot is included in the Spyder channel.

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# MHG_CF

## 1. Description

This relation saves the status of CF activation on Multi Line Hunt Group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1023 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| corcable relation | DBYES |

## 3. Field Layout

```
MHG_CF      relid = 1078  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL


    grpnum      DMGRPNUM     (ushort)  <--- key
    mffcf5      DMUNS8       (ushort: 8)
 (a) sca_nat    DMSCANAT     (enum: 2)
 (b) cfvind     DMBOOL       (enum: 1)
 (c) cfb_ind    DMBOOL       (enum: 1)
 (d) cfvppind   DMBOOL       (enum: 1)
 (e) cfbppind   DMBOOL       (enum: 1)
 (f) cfnsind    DMBOOL       (enum: 1)
 (g) dummy1     DMBOOL       (enum: 1)
 (h) scr_on     DMBOOL       (enum: 1)
 (i) scf_on     DMBOOL       (enum: 1)
 (j) sca_on     DMBOOL       (enum: 1)
 (k) sda_on     DMBOOL       (enum: 1)
 (l) car        DMBOOL       (enum: 1)
 (m) cfimb      DMBOOL       (enum: 1)
 (n) cfilb      DMBOOL       (enum: 1)
 (o) ovfcfi     DMBOOL       (enum: 1)
 (p) tat_on     DMBOOL       (enum: 1)
 (q) ohd_act    DMBOOL       (enum: 1)
 (r) mffcf1     DMBOOL       (enum: 1)
 (s) mffcf2     DMBOOL       (enum: 1)
 (t) mffcf3     DMBOOL       (enum: 1)
 (u) mffcf4     DMBOOL       (enum: 1)
 (v) tbl_on     DMBOOL       (enum: 1)
       User, Compacted and Stored Tuple Layout MHG_CF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |               |   | | | | | | |
 0 |             grpnum            |     mffcf5    | a |b|c|d|e|f|g|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | | |                               |
 4 |h|i|j|k|l|m|n|o|p|q|r|s|t|u|v|*******************************|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

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## 4. Population rules for RLmhg_cf

### Relation Description

```
        CF activation on Multi Line Hunt Group

        This relation saves the status of CF activation on
        Multi Line Hunt Group


       "for every tuple in RLrt_mhg
        where (RLrt_mhg.grpnum equals RLmhg_cf.grpnum)
        when found
        begin
        must find exactly 1 tuples in RLmhg_cf on RLrt_mhg.module
        end"
```

**Attribute:**
grpnum
**Fullname:**
the group number associated with this MLHG
**Attribute Description:**
this number is same as that of group number in RLrt_mhg

**Attribute:**
cfvind
**Fullname:**
call forwarding variable indicator
**Attribute Description:**
indicates if call forwarding variable is assigned and active for member 1 (lead) port of this multiline hunt group. DBYES indicates that the feature is assigned && active. DBNO indicates that the feature is not assigned OR not active.

For PSMCP cfvind = DBNO.

**Attribute:**
cfb_ind
**Fullname:**
call forwarding busy indicator
**Attribute Description:**
indicates if call forwarding busy is assigned and active for member 1 (lead) port of this multiline hunt group. DBYES indicates that the feature is assigned && active. DBNO indicates that the feature is not assigned OR not active.

For PSMCP cfb_ind = DBNO (enforced in RULE about RLmhg_cf.cfvind).

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If call forwarding busy is assigned to member 1
of a MLH group, RLfc_line.brc == DBYES or DBNO for
members other than the lead member to indicate
which members have BRCS features.

**Attribute:**
cfvppind
**Fullname:**
N/A
**Attribute Description:**
unused

**Attribute:**
cfbppind
**Fullname:**
N/A
**Attribute Description:**
unused

**Attribute:**
cfnsind
**Fullname:**
fixed night service call forwarding indicator
**Attribute Description:**
indicates if Fixed Night Service call forwarding for
member 1 (lead member of a Multiline Hunt Group) is assigned
and active.
DBYES indicates that the feature is assigned && active.
DBNO indicates that the feature is not assigned OR not
active.

**Attribute:**
dummy1
**Fullname:**
dummy variable
**Attribute Description:**
extra BOOL if the design calls for one

**Attribute:**
scr_on
**Fullname:**
selective call rejection active
**Attribute Description:**
This feature status of a multi-line hunt group should
be updated when the feature status, scr_on, or/and
the master swtch, mastsw, of the member 1 is (are)
changed. The feature status of the member one is

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defined in FC_LINE for ltm_type = LTM_OTHER or
in IS_LINE for ltm_type = LTM_ISDN.
The master switch is defined in DN_FEATS.

The truth table is:

| FC_LINE/IS_LINE | DN_FEATS | MHG_CF |
|---|---|---|
| scr_on | mastersw | scr_on |
| DBNO | DBNO | DBNO |
| DBYES | DBNO | DBNO |
| DBNO | DBYES | DBNO |
| DBYES | DBYES | DBYES |

**Attribute:**
scf_on
**Fullname:**
selective call forwarding active
**Attribute Description:**
Refer to the description of scr_on

**Attribute:**
sca_on
**Fullname:**
selective call acceptance active
**Attribute Description:**
Refer to the description of scr_on

**Attribute:**
sda_on
**Fullname:**
selective distinctive altering active
**Attribute Description:**
Refer to the description of scr_on

**Attribute:**
car
**Fullname:**
Computer Access Restriction
**Attribute Description:**
If the Selective Call Acceptance or Computer Access
Restriction feature is assigned to member 1
this field indicates if the feature assigned is
SCA or CAR. DBYES indicates CAR is assigned.
If SCA or CAR is assigned to member 1
there will be a tuple in SCA_LTM on member 1 SM whose
keys are the ltm_type and ltm_idx of member 1.
For this tuple, SCA_LTM.car = MHG_CF.car.

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If such a tuple does not exist in SCA_LTM (feature not assigned), MHG_CF.car = DBNO.

**Attribute:**
sca_nat
**Fullname:**
Selective Call Acceptance Non-Acceptance Treatment
**Attribute Description:**
If member 1 is assigned the SCA or CAR feature, this field indicates what type of non-acceptance treatment the calling party will receive. This field should be defined as
NAT_NULL, if the NAT is unspecified.
NAT_FWRD, if the call will be forwarded.
NAT_RCRD, if an announcement will be given.
If SCA or CAR is assigned to member 1 there will be a tuple in SCA_LTM on member 1 SM whose keys are the ltm_type and ltm_idx of member 1.
For this tuple, SCA_LTM.sca_nat = MHG_CF.sca_nat.
If such a tuple does not exist in SCA_LTM (feature not assigned), MHG_CF.sca_nat = NAT_NULL.

**Attribute:**
cfimb
**Fullname:**
Call Forwarding Busy Line Inhibit Make Busy
**Attribute Description:**
This attribute indicates whether call forwarding busy line is inhibited or not if Circuit Switched Voice Multi-Line Hunt Group is made busy by group make busy key or group make busy feature button. The cfimb option can not be assigned to Circuit Switched Data MLHG and the hunt type must be in RTH_CIRCULAR, RTH_LGCIR, RTH_REGULAR, RTH_LGREG, RTH_UCD and RTH_LGUCD.

**Attribute:**
cfilb
**Fullname:**
Call Forwarding Busy Line Inhibit Line Busy
**Attribute Description:**
This attribute indicates whether call forwarding busy line is inhibited or not if Circuit Switched voice Multi_Line Hunt Group is busy but not made busy by group make busy key/ feature button. The group make busy key/feature button should be assigned to the Multi-Line Hunt Group. The cfilb option can not be assigned to Circuit Switched Data MLHG and the hunt type must be in RTH_CIRCULAR, RTH_LGCIR, RTH_REGULAR, RTH_LGREG, RTH_UCD and RTH_LGUCD

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**Attribute:**
ovfcfi
**Fullname:**
Overflow Tone for Call Forwarding Busy Line Inhibit
**Attribute Description:**
If this field is set to yes, then the overflow tone (reorder) should be given to the originating party when call forwarding inhibit make busy (cfimb) or call forwarding inhibit line busy (cfilb) option is assigned to the MLHG. If this field is not set then busy tone is provided. When this field is set to yes cfimb or cfilb must be set to yes.

**Attribute:**
tat_on
**Fullname:**
Terminating Attempt Trigger on.
**Attribute Description:**
Indicates active TAT assignment to a MLHG. This is a corcable attribute.

**Attribute:**
ohd_act
**Fullname:**
Off Hook Delay Trigger active.
**Attribute Description:**
Indicates active OHD assignment to a MLHG.

**Attribute:**
mffcf1
**Fullname:**
Boolean reserved for future field feature use.
**Attribute Description:**
see fullname description.

**Attribute:**
mffcf2
**Fullname:**
Boolean reserved for future field feature use.
**Attribute Description:**
see fullname description.

**Attribute:**
mffcf3
**Fullname:**
bit reserved for future field feature use
**Attribute Description:**
Not assigned yet

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**Attribute:**
mffcf4
**Fullname:**
bit reserved for future field feature use
**Attribute Description:**
Not assigned yet

**Attribute:**
mffcf5
**Fullname:**
unsigned 8 reserved for future field feature use
**Attribute Description:**
Not assigned yet

**Attribute:**
tbl_on
**Fullname:**
Terminating Busy Line Trigger On
**Attribute Description:**
This attribute indicates Terminating Busy Line Trigger assignment to a MLHG. This is a corcable attribute.

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# MHG_OPTS

## 1. Description

Feature definition's options and defaults.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
MHG_OPTS    relid = 539   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     feat_id     DMMCC_FID    (ushort)  <--- key, not stored
     htype       DMHNTTYPE    (enum: 5)
 (a) beartyp     DMBRTYP      (enum: 2)
 (b) ofvreg      DMBOOL       (enum: 1)
 (c) inwats      DMBOOL       (enum: 1)
 (d) cfbusy      DMBOOL       (enum: 1)
 (e) cfvar       DMBOOL       (enum: 1)
        User and Compacted Tuple Layout   MHG_OPTS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            feat_id            |*******************************|
    |---------------+---------------+---------------+---------------|
    |         |   | | | | |                                       |
  4 |  htype  | a |b|c|d|e|***************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     htype       DMHNTTYPE    (enum: 5)
 (a) beartyp     DMBRTYP      (enum: 2)
 (b) ofvreg      DMBOOL       (enum: 1)
 (c) inwats      DMBOOL       (enum: 1)
 (d) cfbusy      DMBOOL       (enum: 1)
 (e) cfvar       DMBOOL       (enum: 1)
          Stored Tuple Layout     MHG_OPTS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |         |   | | | | |                                       |
  0 |  htype  | a |b|c|d|e|***************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLmhg_opts

**Relation Description** Multi-line hunt group (MLHG) feature definition's options and defaults.

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**Attribute: feat_id**

**Fullname:** feature ID

**Attribute Description** One tuple per multi-line hunt constructed feature. For each tuple there must be a tuple in RLfacname containing this feature id, a class of FACBRCS, and a subclass of SCL_FEAT, and a tuple in RLfacftdsc with this feature ID. High order byte must have a modular feature type of MFMLHG from DMmftype. Low order byte is unrestricted. RLmhg_opts.feat_id = this feat.id.

**Attribute: htype**

**Fullname:** Hunt type

**Attribute Description**

```
RTH_REGULAR  - regular linear
RTH_CIRCULAR - circular hunt
RTH_UCD      - uniform call distribution
RTH_MUPH     - multiposition hunt
RTH_PPSMHG   - MLHG with PP feature
RTH_PSUCD    - uniform call distribution for packet calls
RTH_ISAT     - ISAT groups
```

If htype is RTH_MUPH, distinctive ringing may not be assigned to a member of a hunt group which bears this feature. (This rule is enforced in RLdr_ltm.)

All members of MLHGs must be in the same terminal group See poprules under RLdn_feats.tgid.

Default: None (a group must have a hunt type).

**Attribute: beartyp**

**Fullname:** Bearer type

**Attribute Description** This attribute is the same as in the RLrt_mhg tuple which has been associated with this feat_id.

beartyp can be associated with a predefined feature which is in turn associated with a multi-line hunt group. Its value is an indication of the type of calls that can be routed to the multi-line hunt group.

ISAT, MUPH, and precedence and preemption MLHGs must have a beartyp of BR_VOICE. Packet switched MLHGs must have a beartyp of BR_PACK. Regular, Circular, and UCD MLHGs must have a beartyp of either BR_VOICE or BR_CSD. Possible values for beartyp are: circuit switched voice (BR_VOICE), circuit switched data (BR_CSD) and packet switched (BR_PACK).

**Attribute: ofvreg**

**Fullname:** Overflow register

**Attribute Description**

```
DBYES - this feature allows an overflow register
DBNO - this feature does not allow an overflow register
```

Overflow registers are assigned on a per MLHG group basis, not on a per feature basis. The per MLHG group overflow register indicator is RLrt_mhg.reg. A rule in RLrt_mhg specifies that

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```
if (RLrt_mhg.reg equals DBYES) then
begin
   must find exactly 1 tuple in RLrc_pgrprmk
   where (RLrc_pgrprmk.portgrp.grpnum equals RLrt_mhg.grpnum)
   when found
   begin
      must find exactly 1 tuple in RLmhg_opts
      where (RLmhg_opts.feat_id equals RLrc_pgrprmk.feat_id)
      when found
      begin
         RLmhg_opts.ofvreg must_equal DBYES;
      end
   end
end
```

**Attribute: inwats**

**Fullname:** Inwats group indicator

**Attribute Description**

```
DBYES - groups have inwats.
DBNO - groups do not have inwats.
```

RLrt_mhg.inwats must be DBNO if RLmhg_opts.inwats equals DBNO and RLrt_mhg.grpnum equals RLrc_pgmprmk.grpnum and RLrc_pgmprmk.feat_id equals this feat_id.

**Attribute: cfbusy**

**Fullname:** Call forward busy

**Attribute Description**

```
DBYES - Groups may have call forwarding busy features assigned to
        member number 1.
DBNO  - Groups not may have call forwarding busy features assigned to
        member number 1.
```

RLmhg_cf.cfb_ind must be DBNO if RLmhg_opts.cfbusy equals DBNO and RLmhg_cf.grpnum equals RLrc_pgmprmk.grpnum and RLrc_pgmprmk.feat_id = this feat_id.

**Attribute: cfvar**

**Fullname:** call forward variable

**Attribute Description**

```
DBYES - Groups may have call forwarding variable features
        assigned to member number 1.
DBNO  - Groups may not have call forwarding variable features
        assigned to member number 1.
```

RLmhg_cf.cfvind must be DBNO if RLmhg_opts.cfvar equals DBNO and RLmhg_cf.grpnum = RLrc_pgmprmk.grpnum and RLrc_pgmprmk.feat_id = this feat_id. Call forwarding variable features assigned to member number 1 of hunt groups must have don't answer timing of 0 (enforced in RLcf_opts).

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# MHG_TGSR

## 1. Description

Multiline hunt group TGSR information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |
| ks key store | DBNO |
| corcable | DBYES |

## 3. Field Layout

```
MHG_TGSR    relid = 1123  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     mlhgrp      DMGRUPNM     (ushort: 11)  <--- key, not stored
     tg_id       DMUNS16      (ushort)
     acvt_gpid   DMFACID      (ushort)
     tgfid       DMUNS10      (ushort: 10)
 (a) acvt_res    DMAT_RES     (enum: 4)
 (b) mstsw       DMBOOL       (enum: 1)
 (c) actsw       DMBOOL       (enum: 1)
     grpcos      DMSERVCLASS  (enum)
 (d) acvt_flag   DMBOOL       (enum: 1)
 (e) acvt_mstsw  DMBOOL       (enum: 1)
 (f) acvt_actsw  DMBOOL       (enum: 1)
         User and Compacted Tuple Layout   MHG_TGSR
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
  0 |         mlhgrp        |***************************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              tg_id            |            acvt_gpid          |
    |---------------+---------------+---------------+---------------|
    |                     |       | | |               | | | |       |
  8 |        tgfid        |   a   |b|c|     grpcos    |d|e|f|*******|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
     tg_id       DMUNS16      (ushort)
     acvt_gpid   DMFACID      (ushort)
     tgfid       DMUNS10      (ushort: 10)
 (a) acvt_res    DMAT_RES     (enum: 4)
 (b) mstsw       DMBOOL       (enum: 1)
 (c) actsw       DMBOOL       (enum: 1)
     grpcos      DMSERVCLASS  (enum)
 (d) acvt_flag   DMBOOL       (enum: 1)
 (e) acvt_mstsw  DMBOOL       (enum: 1)
```

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```
(f) acvt_actsw  DMBOOL       (enum: 1)
          Stored Tuple Layout     MHG_TGSR
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             tg_id             |           acvt_gpid           |
   |---------------+---------------+---------------+---------------|
   |                     |       | | |               | | | |         |
 4 |       tgfid         |   a   |b|c|     grpcos    |d|e|f|*********|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population Rules for RLmhg_tgsr

**Relation Description** Multi-line hunt group (MLHG) terminal group restrictions.

Contains information to check the TGSR and/or attendant control of voice terminal (ACVT) restrictions between the originating and the terminating MLHG.

**Attribute: mlhgrp**

**Fullname:** MLHG Group Number

**Attribute Description** Key is the groups number.

**Attribute: tg_id**

**Fullname:** Terminal Group ID (number)

**Attribute Description** Terminal Group in which MLHG belongs.

**Attribute: tgfid**

**Fullname:** Terminal Group Feature ID

**Attribute Description** Key to relation RLtg_cf, to get TGSR placed on MLHG.

**Attribute: grpcos**

**Fullname:** Class of Service for First Member of a MLHG.

**Attribute Description** Used to check TGSR and/or ACVT between originator and MLHG.

**Attribute: mstsw**

**Fullname:** Feature Master Switch

**Attribute Description** Are features inactive due to Master Switch setting.

**Attribute: actsw**

**Fullname:** Activation Switch

**Attribute Description** Individual Feature Activation.

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**Attribute: acvt_flag**

**Fullname:** ACVT Flag

**Attribute Description** Does Member One of MLGH have a terminating ACVT feature.

**Attribute: acvt_mstsw**

**Fullname:** ACVT Feature Master Switch

**Attribute Description** Is the ACVT feature inactive due to Master Switch setting.

**Attribute: acvt_actsw**

**Fullname:** ACVT Feature Activation Switch

**Attribute Description** Is the ACVT feature inactive due to Feature Activation.

***NOTE:*** This attribute is corcable.

**Attribute: acvt_res**

**Fullname:** ACVT Restriction level

**Attribute Description** The ACVT restriction level of the port.

**Attribute: acvt_gpid**

**Fullname:** ACVT group ID, key to RLat_grp

**Attribute Description** The ACVT restriction group ID.

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# MHPIPE

## 1. Description

This relation defines the peripheral side of a Quad-Link Packet Switch (QLPS) Message Handler (MH) pipe. A pipe is a high bandwidth path from a QLPS QTMSLNK through the TMS to a given QLPS end-point (in this case the endpoint is a Message Handler (MH) in an SM-2000.) QLPS is used in the *5ESS*®-2000 switch for high bandwidth message transport.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4 |
| expected tuples in relation | 2 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | SMqmhpipe |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
MHPIPE      relid = 2003  DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL
 (a) qnetwork    DMQLNTWK     (enum: 2)     <--- key
 (b) qtlnkpos    DMUNS2       (ushort: 2)
     num_slots   DMUNS8       (ushort: 8)
     per0        DMHEX32      (ulong)
     per1        DMHEX32      (ulong)
     per2        DMHEX32      (ulong)
     per3        DMHEX32      (ulong)
     per4        DMHEX32      (ulong)
     per5        DMHEX32      (ulong)
     per6        DMHEX32      (ulong)
     per7        DMHEX32      (ulong)
     per8        DMHEX32      (ulong)
     per9        DMHEX32      (ulong)
     per10       DMHEX32      (ulong)
     per11       DMHEX32      (ulong)
     per12       DMHEX32      (ulong)
     per13       DMHEX32      (ulong)
     per14       DMHEX32      (ulong)
     per15       DMHEX32      (ulong)
     per16       DMHEX32      (ulong)
     per17       DMHEX32      (ulong)
     per18       DMHEX32      (ulong)
     per19       DMHEX32      (ulong)
     per20       DMHEX32      (ulong)
     per21       DMHEX32      (ulong)
     per22       DMHEX32      (ulong)
     per23       DMHEX32      (ulong)
     nli         DMUNS5       (ushort: 5)
     net0        DMHEX32      (ulong)
```

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```
    net1        DMHEX32      (ulong)
    net2        DMHEX32      (ulong)
    net3        DMHEX32      (ulong)
    net4        DMHEX32      (ulong)
    net5        DMHEX32      (ulong)
    net6        DMHEX32      (ulong)
    net7        DMHEX32      (ulong)
    net8        DMHEX32      (ulong)
    net9        DMHEX32      (ulong)
    net10       DMHEX32      (ulong)
    net11       DMHEX32      (ulong)
    net12       DMHEX32      (ulong)
    net13       DMHEX32      (ulong)
    net14       DMHEX32      (ulong)
    net15       DMHEX32      (ulong)
    net16       DMHEX32      (ulong)
    net17       DMHEX32      (ulong)
    net18       DMHEX32      (ulong)
    net19       DMHEX32      (ulong)
    net20       DMHEX32      (ulong)
    net21       DMHEX32      (ulong)
    net22       DMHEX32      (ulong)
    net23       DMHEX32      (ulong)
        User, Compacted and Stored Tuple Layout MHPIPE
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |   |   |               |                                       |
 0 | a | b |   num_slots   |***************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 4 |                              per0                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
 8 |                              per1                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
12 |                              per2                             |
   |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
   |---------------+---------------+---------------+---------------|
   |                                                               |
92 |                             per22                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
96 |                             per23                             |
   |---------------+---------------+---------------+---------------|
   |         |                                                     |
100|   nli   |*****************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
104|                              net0                             |
```

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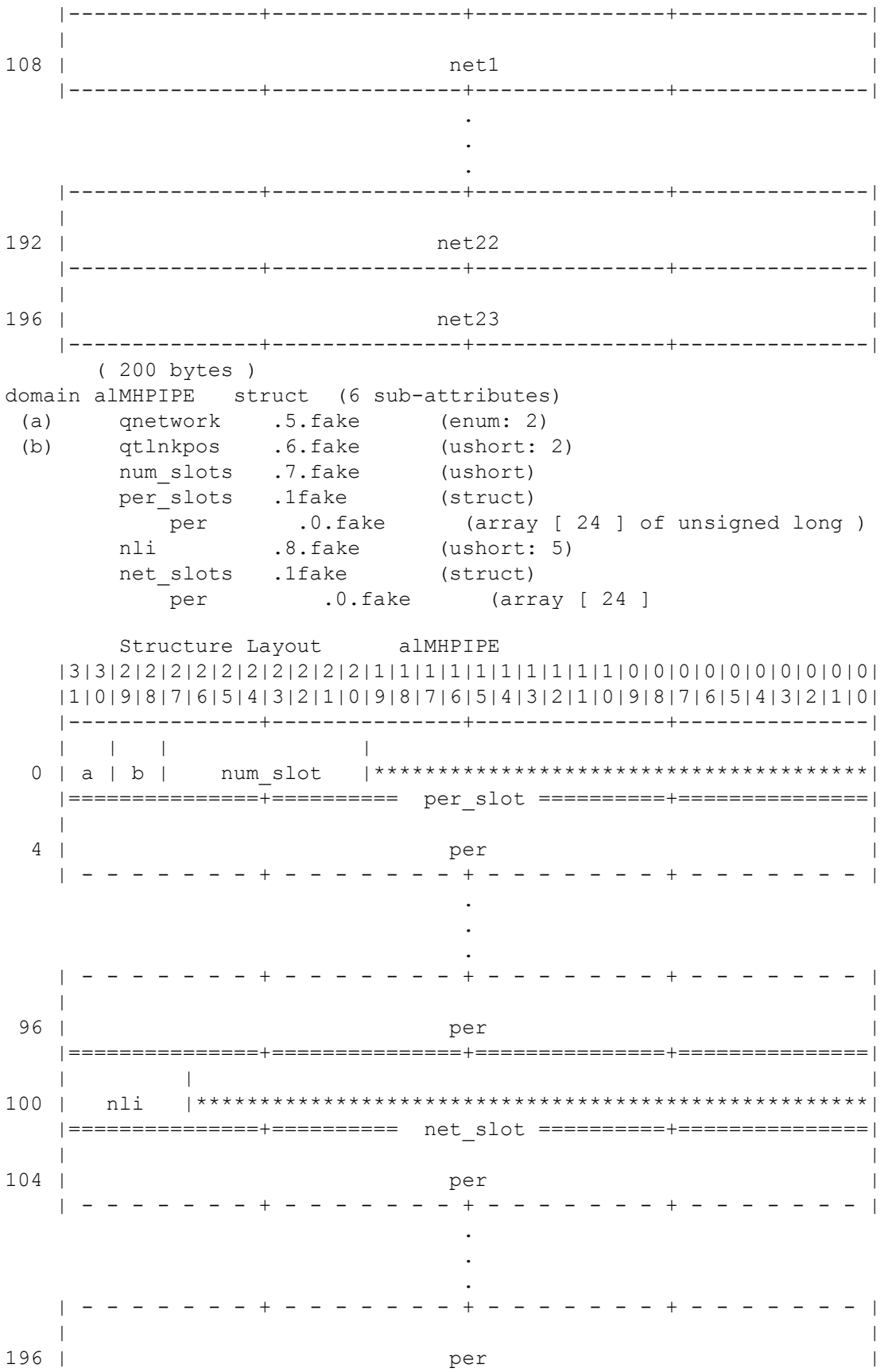
108
net1
192
net22
196
net23
( 200 bytes )
domain alMHPIPE struct (6 sub-attributes)
(a) qnetwork .5.fake (enum: 2)
(b) qtlnkpos .6.fake (ushort: 2)
num_slots .7.fake (ushort)
per_slots .1fake (struct)
per .0.fake (array [ 24 ] of unsigned long )
nli .8.fake (ushort: 5)
net_slots .1fake (struct)
per .0.fake (array [ 24 ]
Structure Layout alMHPIPE
3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
0
a
b
num_slot
per_slot
4
per
96
per
100
nli
net_slot
104
per
196
per

```
|===============+===============+===============+==============|
   ( 200 bytes )
```

## 4. Population Rules for RLmhpipe

**Relation Description** QLPS Message Handler Pipe relation

This relation is used in an SM-2000 to identify the timeslots through the TSI that are to be used for an MH pipe to a QLPS network. This relation will be used by PC to nail-up the timeslots for the pipe and will be used to determine the Spyder-T timeslots in the MH, where the MH pipes terminate. QLPS is an optional overlay network to provide high bandwidth message transport. It is being developed as part of Service net-2000 release 1.

**Attribute: qnetwork**

**Fullname:** QLPS Network

**Attribute Description** This attribute is the QLPS network number. In release 1, there will be 2 QLPS networks 0 and 1, but networks 2 and 3 may be added in the future and must be allowed for.

**Attribute: qtlnkpos**

**Fullname:** QTMSLNK (QLPS Tms Link) Position

**Attribute Description** This attribute is the position within the QLPS of the QTMSLNK that terminates this MH pipe at the QLPS.

**Attribute: num_slots**

**Fullname:** Number of Pipe Timeslots

**Attribute Description** This attribute contains the number of timeslots in the MH pipe being defined. For release 1, this will be fixed at 14, but this attribute is being supplied for future use when the number of timeslots in a pipe may be recent changeable.

**Attribute: per[*]**

**Fullname:** MH Pipe Peripheral Side Timeslot map

**Attribute Description** These attributes form a 768 bit map (24 words of 32 bit each) of timeslots for the MH pipe defined. The first attribute, per0, is for timeslots 0 thru 31, the second attribute, per1, is for timeslots 32 thru 63, etc. (For release 1, MH pipes terminate at MH 0 and timeslots are FIXED based on that fact.) A fixed bit is set in this 768 bit map for each of the 14 timeslots of the MH pipe for the given QLPS network. (Divide the timeslot number assignment by 24 to get the Spyder-T timeslot for each pipe.)

**Attribute: nli**

**Fullname:** NLI for network timeslots

**Attribute Description** This attribute identifies the NLI that the network side timeslots terminate at the SM-2000. For release 1, all QLPS pipes use the primary NLI's.

**Attribute: net[*]**

**Fullname:** MH pipe Network Side timeslot Map

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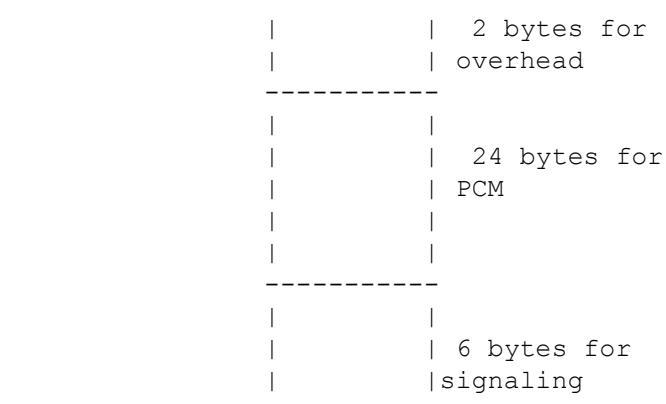
**Attribute Description** These attributes are 24 words of 32 bits each that form a 768 bit map of timeslots that define a pipe from the QLPS to the MH in this SM-2000. The network side timeslots (thru the TMS) have been defined in the AM relation RLtmspipe. (See the RLtmspipe poprules for more information.) For this pipe (from a given QLPS to MH 0 in this SM-2000), the network side timeslots need to be copied from RLtmspipe.slot{0-7} and converted to a PC numbering scheme used for network side timeslots used by PC in an SM-2000. The mapping scheme is:

Each frame on a TSI link has 1024 bytes, 32 blocks which contain 32 bytes each. In each block, the 32 bytes are assigned as follows:




The PCM bytes are where the QLPS pipe data is carried. The 24 bytes for PCM are divided into 3 chunks of 8 each. Only the first and third chunk of 8 out of every 24 are transmitted on the NCT2 links for a total of 16 transmitted timeslots in each block. Given 32 blocks, there is a total of 16 * 32 = 512 transmitted (usable) timeslots.

Refer to figure 30.20.3.2-5 "Mapping of NCT2 Time Slots to TSI Link Time Slots" in Hardware/Software Interface Document for TSIU4 in ~co2k/002000/v1001/30 directory for a detail explanation of how the Time Slots are mapped.

defines: "db/DMqltype.h", "db/DMtmslnk.h"

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# MLT_LATA

## 1. Description

Lines in this office are in multiple latas.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28 |
| expected number of tuples | 14 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | CCS |
| relation type | DBSTATIC |
| trigger function | CTmlt_lata |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| ks key store | AUTO |

## 3. Field Layout

```
MLT_LATA    relid = 2581  DBSTATIC   DBACC_HASH  DBPRAM    LP      CCS
     dpc1         DMPT_CODE     (ulong: 24)
     spare1       DMUNS8        (ushort: 8)
     dpc2         DMPT_CODE     (ulong: 24)
     trans_type   DMTRANSTYP    (ushort: 8)
     lata         DMILATA       (ushort: 10)     <--- key
 (a) application   DMDS_APP      (enum: 5)     <--- key
 (b) spare2       DMBOOL        (enum: 1)
         User, Compacted and Stored Tuple Layout   MLT_LATA
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                      dpc1                     |     spare1    |
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  4 |                      dpc2                     |   trans_type  |
    |---------------+---------------+---------------+---------------|
    |                   |         | |                               |
  8 |        lata       |    a    |b|*******************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLmlt_lata

**Relation Description** Multiple LATAs for TCAP improvements relation

This relation translates a direct signaling application type and lata into destination point codes.

This relation will be populated for the "TCAP (Transaction Capabilities Application Part) Improvements for a Switch Spanning Multiple LATAs" feature. This is a special feature and the special feature ID is SFID171. The feature must be purchased and SFID171 must be set to populate this relation.

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WARNING!!
If any new application enumerations are added, please contact the module owner of ct/CTdlndb. A change will be required to increase the maximum tuple size in the DLN.

**Attribute: lata**

**Fullname:** Local Access Transport Area

**Attribute Description** The lata value that a class of lines resides in.

**Attribute: application**

**Fullname:** Direct signaling application type

**Attribute Description** The direct signaling application type that is providing a service that uses the CCS7 protocol. Valid values for application are:

```
CCLASS  - Local Area Signaling Services (LASS)
CCACND  - Analog Calling Name Delivery (ACND).
```

**Attribute: trans_type**

**Fullname:** Translation Type

**Attribute Description** Used for the specific direct signaling application type.

**Attribute: dpc1**

**Fullname:** Destination Point Code 1

**Attribute Description** The Destination Point Code of the STP.

**Attribute: dpc2**

**Fullname:** Destination Point Code 2

**Attribute Description** The alternate Destination Point Code of the STP. Call processing will toggle between dpc1 and dpc2 for load sharing.

**Attribute: spare1**

**Fullname:** 8 bit spare

**Attribute Description** Used for anything.

**Attribute: spare2**

**Fullname:** Boolean spare

**Attribute Description** Used for anything.

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# MODATT

## 1. Description

This relation contains the module attributes information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 194 |
| expected number of tuples | 24 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTATIC |
| trigger function for TM,SM & SI | DBmodatttrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ks key store | AUTO |

## 3. Field Layout

```
MODATT      relid = 234   DBSTATIC   DBACC_CIND  DBPRAM    LR      NULL


    dcturi      DMRTEIDX     (ushort: 14)
(a) osps_sm     DMBOOL       (enum: 1)
(b) post_pump   DMBOOL       (enum: 1)
    alit_ri     DMRTEIDX     (ushort: 14)
(c) iia_normal  DMSTATUS     (enum: 2)
    slim_ri     DMRTEIDX     (ushort: 14)
(d) log_act     DMBOOL       (enum: 1)
(e) ql_ntwk0    DMBOOL       (enum: 1)
    maj_ri      DMRTEIDX     (ushort: 14)
(f) ql_ntwk1    DMBOOL       (enum: 1)
(g) ccitt6sm    DMBOOL       (enum: 1)
    ppm_ri      DMRTEIDX     (ushort: 14)
(h) ccs7sm      DMBOOL       (enum: 1)
(i) intl7sm     DMBOOL       (enum: 1)
    tmsevennct  DMUNS9       (ushort: 9)
    eq_lis      DMUNS6       (ushort: 6)
(j) rbpsc       DMBOOL       (enum: 1)
    tmsoddnct   DMUNS9       (ushort: 9)
    unittype    DMUNITTYPE   (enum: 7)
    imtype      DMIMTYPE     (enum)
    module      DMMODULE     (ushort: 8)       <--- key
    hostnum     DMMODULE     (ushort: 8)
    clid        DMCLUSTER    (ushort: 8)
    cts_even    DMCTS8       (ushort: 8)
    cts_odd     DMCTS8       (ushort: 8)
    eq_tmslnks  DMUNS6       (ushort: 6)
    offset      DMRSMNO      (ushort: 5)
(k) cl_offset   DMUNS4       (ushort: 4)
(l) stream      DMAMASTRM    (enum: 1)
(m) eqstat      DMEQSTAT     (enum: 3)
(n) natl7sm     DMBOOL       (enum: 1)
```

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```
(o) billsm      DMBOOL       (enum: 1)
(p) eecsm       DMBOOL       (enum: 1)
(q) mscu_norm   DMUNS1       (ushort: 1)
    bstr_cli    DMHEX32      (ulong)
    mctsi0_cli  DMHEX32      (ulong)
    mctsi1_cli  DMHEX32      (ulong)
    dli0_cli    DMHEX32      (ulong)
    dli1_cli    DMHEX32      (ulong)
    mh0_cli     DMHEX32      (ulong)
    mh1_cli     DMHEX32      (ulong)
    tsi0_cli    DMHEX32      (ulong)
    tsi1_cli    DMHEX32      (ulong)
        User, Compacted and Stored Tuple Layout MODATT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                             | | |                             |   |
 0 |           dcturi            |a|b|           alit_ri           | c |
   |---------------+---------------+---------------+---------------|
   |                             | | |                             | | |
 4 |           slim_ri           |d|e|            maj_ri           |f|g|
   |---------------+---------------+---------------+---------------|
   |                             | | |                 |           | | |
 8 |           ppm_ri            |h|i|    tmsevennct   |   eq_lis  |j|
   |---------------+---------------+---------------+---------------|
   |                 |             |               |               |
12 |    tmsoddnct    |   unittype  |     imtype    |     module    |
   |---------------+---------------+---------------+---------------|
   |                 |             |               |               |
16 |    hostnum      |      clid     |    cts_even   |    cts_odd    |
   |---------------+---------------+---------------+---------------|
   |           |         |       | |     | | | | |                 |
20 | eq_tmslnks|  offset |   k   |l|  m  |n|o|p|q|*****************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
24 |                            bstr_cli                           |
   |---------------+---------------+---------------+---------------|
   |                                                               |
28 |                           mctsi0_cli                          |
   |---------------+---------------+---------------+---------------|
   |                                                               |
32 |                           mctsi1_cli                          |
   |---------------+---------------+---------------+---------------|
   |                                                               |
36 |                            dli0_cli                           |
   |---------------+---------------+---------------+---------------|
   |                                                               |
40 |                            dli1_cli                           |
   |---------------+---------------+---------------+---------------|
   |                                                               |
44 |                            mh0_cli                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
48 |                            mh1_cli                            |
```

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```
    |--------------+---------------+---------------+---------------|
    |                                                               |
 52 |                           tsi0_cli                            |
    |--------------+---------------+---------------+---------------|
    |                                                               |
 56 |                           tsi1_cli                            |
    |--------------+---------------+---------------+---------------|
       ( 60 bytes )
```

## 4. Population rules for RLmodatt

### Relation Description

Switching module (SM) information

This relation contains information associated with SMs of all functional types, namely, local SMs (LSMs), host SMs (HSMs), remote SMs (RSMs), optically remote SMs (ORMs), and two mile ORMs (TRMs). In addition, it contains information related to communication module processors (CMPs) and the administrative module (AM). There is one tuple in this relation for each module in the office. Each tuple describes a module's properties, such as, functional type, the time multiplexed switch (TMS) network control and timing (NCT) links and control time slots (CTSs) assigned to the module, etc. In those offices hosting the Operator Services Position System (OSPS) feature, this relation must be populated before the global parameter GLospson is set to DBYES.

The reader should be aware of a difference in terminology used for SMs and the AM in documentation and code. The original term used for SMs was interface module (IM) and the AM was central processor (CP) and those terms are still widely used in code. New documentation and new code are being made consistent with the official policy of using SM and AM. However, no special effort is required nor is being made to make existing code and documentation, for that matter, to be consistent with that policy due to the volume of work involved.

Note that SM-2000 defines a class of SMs, which is comprised of SM-2000(SMSM2000) and SM2005(SMSM2005).

The SMxxxx without a "dash" is an "altval" used by RCV and ODA.

The (SMSMxxxx) defines the SM's unittype.

Also note that the use of the SM-2000 and SM2000 names throughout the prl files has not been used consistently, and therefore may be used in such a way that does not correspond to the previous definition.

The official term for full or quad (four module message processors [MMPs]) is dual MMPs. The official term for half (two MMPs) is single MMPs. The terms dual and single are used in most customer documentation for these MMP

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configurations. The communication module model 2 (CM2) office data allows a single MMP, a dual MMP or a combination of both single and dual (that is, some SMs can be connected to two MMPs and others to four MMPs in the same office) equipage options.

RLmodatt has dependencies on the following relations:

RLslnktms - For each tuple in RLmodatt that describes an operational LSM/HSM/ORM/TRM, there must be at least four tuples in RLslnktms that describe the operational TMS NCT links to which the LSM/HSM/ORM/TRM is connected. The exact number of tuples depends on the (E)NLI equipage (SMs have only four entries, while SM-2000s can have a maximum of 96 entries).

RLnli_lnk - for each tuple in RLmodatt, there must be as many entries in RLnli_lnk as the value for the attribute eq_lis.

Note that the attribute eq_lis will have a value of zero for SMs, which implies that there will not be any entries in RLnli_lnk for SMs.

RLspc - For each tuple in RLmodatt that describes an operational SM, there must be at least two corresponding tuples in RLspc. In a communications module, model 1 (CM1) office or a CM2 office with a full MMP equipage option, four RLspc tuples must represent operational MMPs. In a CM2 office with a half MMP equipage option, two RLspc tuples must represent two operational MMPs.

RLssdlc - For each tuple in RLmodatt that describes an operational SM, there must be at least two corresponding tuples in RLssdlc. In a CM1 office or a CM2 office with a full MMP equipage option, four RLssdlc tuples must represent operational SDLC/XPCs. In a CM2 office with a half MMP equipage option, two RLssdlc tuples must represent two operational XPCs.

RLclidat - See population rules for attributes clid and cl_offset.

RLmatatt - See population rules for cl_offset attribute.

**Attribute:**

module

**Fullname:**

Module number

**Attribute Description:**

This attribute uniquely identifies each module with which

the office is equipped. Note that the value 193 is used to represent the AM.

The domain (DMMODULE) of this attribute is unsigned 8 bits, therefore the set of possible values is 0 to 255. However, the actual range is smaller.

For a CM1 office (Glcm0vint=SMCM1VINT), the maximum number of SMs is 48 and they must be numbered in the range 1-48. The maximum number of CMPs is constrained to four by CM1 hardware, so the valid set of CM1 module numbers is 1-48 (SMs), 193 (AM), and 194-195, 206-207 (CMPs).

For a CM2 office (Glcm0vint=SMCM2VINT), the maximum number of SMs is 192 and the maximum number of CMPs is 24, so the valid range of CM2 module numbers is 1 to 217.

In a communications module, model 2 compact (CM2C) office, the maximum number of SM tuples cannot exceed eight.

Modules should be assigned numbers that are consistent with the range limits of the office vintage as described in the preceding paragraph. Also, the assigned numbers must uniquely identify each module in the office.

**Attribute:**

dcturi

**Fullname:**

Directly connected test unit (DCTU) route index

**Attribute Description:**

This attribute specifies a route index associated with a DCTU that can test lines and trunks metallically in the SM specified by the key module. This DCTU route index tells operational software which DCTU to use when metallically testing a line or trunk in the SM specified by module.

Note: DCTUs that serve lines and trunks in a host 5ESS(R)-2000 switch processing entity can never be used to test lines in an RSM/ORM/TRM. Conversely, DCTUs that are connected to and test lines within an RSM or RSM cluster can never be used to test lines or trunks in the host 5ESS(R)-2000 switch processing entity.

The following examples serve to illustrate the possible configurations and assignment rules.

1. All the modules are of imtype SM5IM and there is only one DCTU equipped in the office. There must be only one DCTU route index defined in RLRT_ROUTING that is associated with only one DCTU trunk group. This DCTU trunk group must be defined in RLRT_TRKG and RLRCTGRPRK.

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See the population rules for RLrt_routing, RLrt_trkg, and RLrctgrprk. The value of the DCTU route index (dcturi) associated with this DCTU must then be the same for each tuple in this relation (RLMODATT).

2. All the modules are of imtype SM5IM and there are two DCTUs equipped in the office. It is recommended that there be two singular DCTU route indices defined in RLRT_ROUTING and two singular DCTU trunk groups defined in RLRT_TRKG and RLRCTGRPRK. Each DCTU is guaranteed to reach any line in the office by virtue of the 5ESS(R)-2000 switch metallic network. It is recommended that the DCTU testing load be split across modules. It is the responsibility of office engineering to decide the appropriate DCTU that should test to each module. When that decision is made, the value of dcturi for each module must correspond to the DCTU chosen to test lines in that SM.

3. All the modules are of imtype SM5IM and there are two DCTUs equipped in the office. It is valid that there be only one DCTU trunk group assigned with trunk members that include all the DCTU trunks members (DCTUPORTs) from both DCTUs. There would be only one DCTU route index assigned to this DCTU route index. Each DCTU is guaranteed to reach any line in the office by virtue of the 5ESS(R)-2000 switch metallic network. The value of the DCTU route index (dcturi) associated with this DCTU trunk group must be the same for each tuple of key module in this relation (RLMODATT).

4. Items 2 and 3 can be expanded to include the cases where there are more than two DCTUs serving the 5ESS(R)-2000 switch host processing entity.

5. If the office decides that lines or trunks in any particular SM and/or RSM are not to be tested by the DCTU, the value for dcturi must be assigned a null value. This null value can either be zero or the office route index value for REORDER. This value is defined in the relation RLRT_ROUTING for a route type route_type of RTE_REORDER. This rule can also serve as the default value for dcturi.

6. If host 5ESS(R)-2000 switch processing entities are modules of imtype SM5IM or SM5HIM, the same rules as described in Items 1, 2, 3, 4, and 5 apply.

7. The module is of imtype SM5RSM and not part of an RSM cluster. If the office requires that the lines in this RSM be tested metallically from the Switching Control Center (SCC), trunk and line work station (TLWS), centralized trunk test unit (CTTU), and mechanized loop testing system generation 2 (MLT-2) via the integrated MLT-2 (IMLT-2) data link, there must be a DCTU located in this RSM. This DCTU can only test lines in this RSM.

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There must be a singular DCTU route index and singular DCTU trunk group defined for this DCTU in this RSM. The value of dcturi for this module of imtype SM5RSM must be set to this DCTU route index.

8. The module is of imtype SM5RSM and not part of an RSM cluster. If a DCTU does not exist in this RSM, then metallic testing of lines from the SCC, TLWS, CTTU, or MLT-2 via the IMLT-2 data link is not possible. The value for dcturi for this module of imtype SM5RSM must be set to the office assigned route index value of REORDER or to zero.

9. The module is of imtype SM5RSM and is part of an RSM cluster. Each RSM in this cluster has its own DCTU. This example reduces to the single RSM not in a cluster previously defined in Item 7. The value for dcturi for this module of imtype SM5RSM in the RSM cluster must be assigned the singular DCTU route index corresponding to the DCTU located in the particular RSM.

10. All the RSMs in a cluster are served by only one DCTU that is physically connected to one RSM within the cluster. The only way for this RSM DCTU to serve all the lines in all the RSMs in the cluster is for the metallic service unit (MSU) containing the metallic test buses (MTBs) that connect to the physical DCTUPORTs to have MTBs that connect to all the line units in all the cluster RSMs. It is not possible to interconnect MSUs in each of the separate RSMs to any other MSU in any of the other RSMs in the cluster via metallic test interconnect buses (MTIBs) as is possible for the metallic network in the host 5ESS(R)-2000 switch processing entity. Assuming the correct configuration conditions have been met, the value for dcturi for each module representing a RSM in the cluster with imtype of SM5RSM should be set to the singular DCTU route index that corresponds to the DCTU serving the RSM cluster.

13. Each ORM/TRM in a single module complex must have its own DCTU in order to do metallic tests. And each ORM/TRM must have its own unique DCTU route index just as a single module RSM would (see Items 5, 6 and 7). If there is no DCTU in the ORM/TRM, the DCTU route index for the ORM/TRM should be set to a null value.

14. All the ORM/TRMs in the same physical location (one or more ORM/TRM complexes) are served by only one DCTU that is physically connected to one ORM/TRM. The only way for this ORM/TRM DCTU to serve all the peripherals in all the ORM/TRMs in the location is for the MSU containing the MTBs that connect to the physical DCTUPORTs to have MTBs that connect to all the peripherals in all the location's ORM/TRMs. It is not

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possible to interconnect MSUs in each of the separate ORM/TRMs to any of the other ORM/TRMs in the location via MTIBs as is possible for the metallic network in the host 5ESS(R)-2000 switch processing entity. Assuming the correct configuration conditions have been met, the value for dcturi for each module representing an ORM/TRM in the location with imtype of SM5ORM/SM5TRM should be set to the singular DCTU route index that corresponds to the DCTU serving the ORM/TRM location.

15. For all tuples with am imtype of SM5PIM or SM5AM this attribute is zero.

16. All the modules are of imtype SM5ORM or SM5TRM. If they are all located in the same building (co-located) and there is one DCTU equipped in the building, there must be only one DCTU route index defined in RLRT_ROUTING that is associated with only one DCTU trunk group. This DCTU trunk group must be defined in RLRT_TRKG and RLRCTGRPRK. The value of the DCTU route index (dcturi) associated with this DCTU must then be the same for each tuple in this relation (RLmodatt)

**Attribute:**

alit_ri

**Fullname:**

Automatic line insulation test (ALIT) route index

**Attribute Description:**

For every type of SM (local, host, remote) which has one or two MSUs or one or two modular MSUs (MMSUs) with at least one ALIT type pack (TN328, TN329, TN330) assigned requires a unique ALIT ROUTE INDEX. Each of these indices are associated with a unique port group. The valid range for ALIT ROUTE INDICES is from 0 to AVRIMAX(). The route indices can be numbered randomly. For every unique alit_ri, the route index must exist in the relation RT_ROUTING. The group number and type found in RT_ROUTING must exist in the relations GROUP_PORT and PGGPMAP. In GROUP_PORT and PGGPMAP, a logical test port must exist for every ALIT circuit marked equipped and operational. The group type in GROUP_PORT and PGGPMAP must be TM_TRK. For every logical test port, information must be found in the SM relation FC_PORTTYP. The key to the information is the member of GROUP_PORT and PGGPMAP. The service class, hunt, and lp_type fields in FC_PORTTYP must equal TM_ALIT, DBYES, and PCALIT respectively. The ALIT ROUTE INDEX must be zero if the SM does not contain an MSU or an MMSU. The ALIT ROUTE INDEX must also be zero if an SM contains an MSU or an MMSU, but no ALIT packs are assigned to the MSU or to the MMSU.

For all tuples with am imtype of SM5PIM or SM5AM this attribute is zero.

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**Attribute:**
slim_ri

**Fullname:**
SLIM route index

**Attribute Description:**
For every type of Switching Module (SM) (local, host, remote) which has one or two Modular Metallic Service Units (MMSUs) with at least one SLIM circuit assigned requires a unique SLIM ROUTE INDEX.
Each of these indices are associated with a unique Port Group. The valid range for SLIM ROUTE INDICES is from 0 to AVRIMAX(). The route indices can be numbered randomly. For every unique 'slim_ri', the route index must exist in the relation RLrt_routing. The group number and type found in RLrt_routing must exist in the relations RLgroup_port. In RLgroup_port ,three logical test ports must exist for every SLIM circuit marked equipped and operational. The group type in RLgroup_port must be TM_TRK. For every logical test port, information must be found in the SM relation RLfc_porttyp. The key to the information is the member of RLgroup_port. The service class, hunt, and lp_type fields in RLfc_porttyp must equal TM_SLIM, DBYES, and PCSLIM respectively. The SLIM ROUTE INDEX must be zero if the SM does not contain a MMSU. The SLIM ROUTE INDEX must also be zero if an SM contains an MMSU, but no SLIM circuits are assigned to the MMSU.

For all tuples with an imtype of SM5PIM (CMP) or SM5AM (AM) this attribute is zero.

**Attribute:**
maj_ri
**Fullname:**
Metallic access junctor route index
**Attribute Description:**
For every SM which requires a unique ALIT ROUTE INDEX, a unique METALLIC ACCESS JUNCTOR ROUTE INDEX must also exist. Each of these indices are associated with a port group. The valid range for METALLIC ACCESS JUNCTOR ROUTE INDICES is from 0 to AVRIMAX(). The route indices can be numbered randomly. For every unique maj_ri, the route index must exist in the relation RT_ROUTING. The group number and type found in RT_ROUTING must exist in the relations GROUP_PORT and PGGPMAP. In GROUP_PORT and PGGPMAP, a logical test port must exist for every metallic access junctor marked equipped and operational. The group type in GROUP_PORT and PGGPMAP must be TM_TRK. For every logical test port, information must be found in the SM relation FC_PORTTYP. The key to the information is the member of GROUP_PORT and PGGPMAP. The service class, hunt, and lp_type fields in FC_PORTTYP must equal TM_MSU, DBYES, and PCMAJ respectively. The METALLIC ACCESS JUNCTOR ROUTE INDEX must be zero if the SM does not contain an MSU or an MMSU, or does not

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require a unique ALIT ROUTE INDEX

For all tuples with am imtype of SM5PIM or SM5AM this attribute is zero.

**Attribute:**
ppm_ri
**Fullname:**
Periodic pulse metering (PPM) route index
**Attribute Description:**
This attribute is only used by international offices and should be populated with zero in U.S. offices.

**Attribute:**
imtype
**Fullname:**
The functional type of an SM
**Attribute Description:**
This attribute specifies the functional type of an SM, that is, whether the SM is an LSM, an HSM, an RSM, an ORM, a TRM, the AM or a CMP.

The domain of this attribute is seven bits. The enumeration (DMIMTYPE) values that this attribute can assume are the following:

SM5IM - Specifies an SM to be an LSM.
SM5HIM - Specifies an SM to be an HSM.
SM5RSM - Specifies an SM to be an RSM.
SM5ORM - Specifies a SM to be an ORM.
SM5TRM - Specifies a SM to be a TRM.
SM5AM - Specifies a module to be the AM.
SM5PIM - Specifies a module to be a CMP.

This attribute should be populated to specify the functional type of the module described by a tuple.

In a CDX office with CM2C, a maximum of two SMs in any combination of LSMs, ORMs, TRMs or HSMs may be equipped. Out of these two SMs one can be a SM-2000. At most Six RSMs may be equipped in a CDX office.

**Attribute:**
offset
**Fullname:**
Offset
**Attribute Description:**
If the imtype is an RSM, then this attribute will contain a number between one and ten (zero if imtype not an RSM) depending upon how many RSMs are equipped on the associated HSM. This attribute matches the offset determined for the HSM relation db/RLhmrsmcl.r.

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For all tuples with am imtype of SM5PIM or SM5AM this attribute is zero.

**Attribute:**
stream
**Fullname:**
Billing stream
**Attribute Description:**
This attribute determines which AMA data stream the billing information from this module goes into. Two streams are available. The possible values for this attribute are stream 1 (AMASTRM1) or stream 2 (AMASTRM2). The SMs are assigned to a billing stream on any arbitrary basis that the user wants. The main purpose for assigning SMs to different streams is to balance out the billing traffic over the two data links. Therefore, it is up to the user to change this attribute as the traffic in the office changes or as lines are reassigned to other modules. The initial value of this attribute should be AMASTRM1, which indicates that the SM's data goes to billing stream 1. Billing will look at this attribute only when the global office parameter, Glamaopt, is set to AMADUAL (Glamaopt values of AMATPS1 and AMATPS2 override this attribute and force billing information to go to stream one or stream two). If the office is not operating as a dual stream office (that is, Glamaopt = AMATPS or NONE), this attribute is not used, but it is still safer to have it set to AMASTRM1 because it will only access the first protected application segment (PAS) shared data segment (SDS) in the advent of Glamaopt being set incorrectly. If the office is not operating in the dual stream mode, the second PAS SDS may not be there.

To retrofit an older release to one that has the dual stream capability, the value of this attribute is of no consequence. Just before conversion, the WRT:AMADATA command should be used to clear AMA data to disk. Then the global parameter, Glamaopt, should be set to AMNONE to turn off billing while conversion is taking place. After the new generic is running, the Glamaopt should be changed to some form of AMATPS.

For all tuples with am imtype of SM5PIM or SM5AM this attribute is AMASTRM1.

**Attribute:**
hostnum
**Fullname:**
SM's parent HSM
**Attribute Description:**
If this SM is an RSM, this attribute is used to identify this SM's parent HSM. Otherwise, this attribute is not used.

The domain of this attribute is DMMODULE, or unsigned eight bits.

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As mentioned earlier, the value of this attribute must identify another tuple in this relation that describes this RSM's parent HSM.

If this SM is an RSM, this attribute should be populated with the value of the module attribute of the parent HSM of this RSM. Otherwise, this attribute should be populated with zero.

**Attribute:**
clid
**Fullname:**
Cluster ID (CLID)
**Attribute Description:**
If the functional type of an SM is an RSM, ORM or TRM, then this attribute should be the number of the cluster of which it is a member. Otherwise, if the SM type is not an RSM/ORM/TRM, then a default value of zero is inserted. The cluster ID is assigned in the RLCLIDAT relation.

Any ORM, TRM, or single module RSM is considered to be a single module cluster. As such, they will need to be given a unique 'clid' in the RLmodatt relation. Non-RSM/ORM/TRM modules will be given the default value of zero.

For all tuples with am imtype of SM5PIM or SM5AM see checks section for this attribute.

**Attribute:**
cl_offset
**Fullname:**
Cluster offset
**Attribute Description:**
This attribute is used only in tuples corresponding to modules of types RSM, ORM and TRM. It is zero otherwise. The cl_offset (cluster offset) gives the relative number of the module within the cluster. It can take on values of from one to four. It is determined based on the order that the modules are grown into a cluster. The first one grown in the cluster is given a cl_offset of one, the next two, etc. The cl_offset equals the XX part of the corresponding rmXX attribute (from the group rm01 - rm10) in the tuple in the AM relation CLIDAT for the cluster this module is in. The key for the CLIDAT tuple is equal to the 'clid' attribute of this MODATT tuple. The appropriate rmXX is the one which has as its value the SM number of this RSM (that is, 'module'). For example, in the relation CLIDAT, in the tuple whose key is equal to 'clid', if attribute rm02 is set to 'module', cl_offset for this tuple is set to two.

Further, cl_offset should agree with the office parameter Glcl_offset populated in 'module', and the cl_offset attribute in the SM relation MATATT for each tuple corresponding to this remotely located module.

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All single module RSMs are considered to be a multimodule RSM with a single SM in the RSM cluster. Its cl_offset should be set to one.
Also, all ORMs or TRMs are considered to be a single module cluster with a cl_offset equal to one. Non-RSM/ORM/TRM modules will be given the default value of zero.

**Attribute:**
rbpsc
**Fullname:**
The remote alarm input option for reporting of building and power alarms
**Attribute Description:**
This attribute determines if a RSM, ORM or TRM has the remote alarm input option for reporting of building and power alarms.

Non-RSM/ORM/TRM modules should be given the default value of DBNO. The rbpsc attribute reflects the assignment state of scan points on the SM equipped with an MSU serving remote alarms. This attribute is DBYES if remote alarm building and power scan points are assigned. It is DBNO when no remote alarm building and power scan points are assigned, that is., the remote alarm input option is not equipped.

**Attribute:**
osps_sm
**Fullname:**
OSPS SM
**Attribute Description:**
If the SM is an OSPS SM that will have OSPS operator data, this should be set to DBYES, otherwise DBNO. An SM with interflow positions or real positions should be considered a PSM and osps_sm should be set to DBYES. This value is independent of the imtype. The value of this SM's "smconfig" attribute in RLsmconf must be CNFG002.

If the imtype is RSM and osps_sm is DBYES, then the SM must be single module RSM cluster. This is identified by a rm_cnt of one in the RLclidat tuple that has the clid attribute as its key.

Default value: DBNO
Required value for export: DBNO

For all tuples with am imtype of SM5PIM or SM5AM this attribute is DBNO. This implies that OSPS SMs can NOT be an SM-2000 SM.

**Attribute:**
cts_even

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**Fullname:**

Even control time slot

**Attribute Description:**

This attribute specifies the even CTS used by the SM described by this tuple. The CTS number is (from the SM's perspective) a TMSLNK time slot number on the TMSLNK identified by the attribute tmsevennct. Note that for SM-2000, there can be several even TMSLNKs connected to an SM, but only the TMSLNK with the CTS is populated in RLmodatt. All other TMSLNKs are populated in RLnli_lnk. From the MSGS perspective, the CTS number assigned to an SM is a function of the physical characteristics of the synchronous data link controller (SDLC)/BX.25 level 2 protocol controller (XPC) that is used by the communication link to the SM.

1. The SDLC/XPC that is serving the SM. Recall that an MMP can have a maximum eight SDLC/XPCs.

2. The pack position of the SDLC/XPC's MMP in its PC community. Recall that a PC community can have a maximum of four PCs, MMPs in this case.

3. The PC community to which the MMP belongs. Recall that an input/output microprocessor interface (IOMI) can have a maximum of four PC communities.

4. The IOMI used by the PC community to which the MMP belongs.

The previous items 3 and 4 determine the message interface bus (MIB) used by the PC community to which the MMP belongs. (Each MIB, of course, terminates into an MI slot, thus there is a 1-to-1 mapping between the MIB number and the MI slot number). The previous items 1 and 2 determine the MIB control time slot (MIBCTS) that is assigned to the SDLC/XPC in the MMP that is serving the SM. Items 3 and 4 and MIBCTS, in turn, determine the TMS control time slot that is assigned to an SM. Also, Items 3 and 4, when concatenated, form the logical community number which is a value within the range 0 to 15.

A CTS to an SM can be constructed as an eight-bit value, say ppsssjcc, where:

pp - the MMP's pack position in its community
sss - the MMP's SDLC/XPC that is supporting the SM
j - the less significant bit of the two bits that represent the IOMI used by the MMP's PC community
cc - the two bits that represent the PC community number.

Note that this CTS assignment scheme is shared between CM1 and CM2 single and dual fabric. This is especially desirable when converting a CM1 office to CM2 because the CTS numbers which are hard-switched in each existing SM will not have to be altered.

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The domain of this attribute is an unsigned eight bits. The values that can be assumed by this attribute range from 2 to 255.

The cts_even attribute should be populated according to the following diagram.

| IOMI Number | Logical PC Community Number | MMP's Position in its Community | MMP log ID | MMP phys ID | cts_even SDLC/XPC Number 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2 | 0 | 0 | 8 | 2 | 10 | 18 | 26 | 34 | 42 | 50 | 58 |
| 0 | 2 | 1 | 2 | 9 | 66 | 74 | 82 | 90 | 98 | 106 | 114 | 122 |
| 0 | 2 | 2 | 4 | 10 | 130 | 138 | 146 | 154 | 162 | 170 | 178 | 186 |
| 0 | 2 | 3 | 6 | 11 | 194 | 202 | 210 | 218 | 226 | 234 | 242 | 250 |
| 1 | 4 | 0 | 8 | 16 | 4 | 12 | 20 | 28 | 36 | 44 | 52 | 60 |
| 1 | 4 | 1 | 10 | 17 | 68 | 76 | 84 | 92 | 100 | 108 | 116 | 124 |
| 1 | 4 | 2 | 12 | 18 | 132 | 140 | 148 | 156 | 164 | 172 | 180 | 188 |
| 1 | 4 | 3 | 14 | 19 | 196 | 204 | 212 | 220 | 228 | 236 | 244 | 252 |
| 1 | 6 | 0 | 16 | 24 | 6 | 14 | 22 | 30 | 38 | 46 | 54 | 62 |
| 1 | 6 | 1 | 18 | 25 | 70 | 78 | 86 | 94 | 102 | 110 | 118 | 126 |
| 1 | 6 | 2 | 20 | 26 | 134 | 142 | 150 | 158 | 166 | 174 | 182 | 190 |
| 1 | 6 | 3 | 22 | 27 | 198 | 206 | 214 | 222 | 230 | 238 | 246 | 254 |
| 2 | 11 | 0 | 24 | 44 | 3 | 11 | 19 | 27 | 35 | 43 | 51 | 59 |
| 2 | 11 | 1 | 26 | 45 | 67 | 75 | 83 | 91 | 99 | 107 | 115 | 123 |
| 2 | 11 | 2 | 28 | 46 | 131 | 139 | 147 | 155 | 163 | 171 | 179 | 187 |
| 2 | 11 | 3 | 30 | 47 | 195 | 203 | 211 | 219 | 227 | 235 | 243 | 251 |
| 3 | 13 | 0 | 32 | 52 | 5 | 13 | 21 | 29 | 37 | 45 | 53 | 61 |
| 3 | 13 | 1 | 34 | 53 | 69 | 77 | 85 | 93 | 101 | 109 | 117 | 125 |
| 3 | 13 | 2 | 36 | 54 | 133 | 141 | 149 | 157 | 165 | 173 | 181 | 189 |
| 3 | 13 | 3 | 38 | 55 | 197 | 205 | 213 | 221 | 229 | 237 | 245 | 253 |
| 3 | 15 | 0 | 40 | 60 | 7 | 15 | 23 | 31 | 39 | 47 | 55 | 63 |
| 3 | 15 | 1 | 42 | 61 | 71 | 79 | 87 | 95 | 103 | 111 | 119 | 127 |
| 3 | 15 | 2 | 44 | 62 | 135 | 143 | 151 | 159 | 167 | 175 | 183 | 191 |
| 3 | 15 | 3 | 46 | 63 | 199 | 207 | 215 | 223 | 231 | 239 | 247 | 255 |

For all tuples with am imtype of SM5PIM or SM5AM this attribute is zero.

**Attribute:**

cts_odd

**Fullname:**

Odd control time slot

**Attribute Description:**

This attribute specifies the odd CTS used by the SM described by this tuple. The CTS number is (from the SM's perspective) a TMSLNK time slot number on the TMSLNK identified by the attribute tmsoddnct. Note that for SM-2000, there can be several odd TMSLNKs connected to an SM, but only the TMSLNK

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with the CTS is populated in RLmodatt. All other TMSLNKs are populated in RLnli_lnk. See cts_even for a discussion on the construction of CTS numbers based on the physical characteristics of MSGS hardware.

The domain of this attribute is eight bits. The values that can be assumed by this attribute range from 2 to 255.

Cts_odd should be populated according to the following diagram.

| IOMI Number | Logical PC Community Number | MMP's Position in its Community | MMP log ID | MMP phys ID | cts_odd SDLC/XPC Number 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3 | 0 | 1 | 12 | 3 | 11 | 19 | 27 | 35 | 43 | 51 | 59 |
| 0 | 3 | 1 | 3 | 13 | 67 | 75 | 83 | 91 | 99 | 107 | 115 | 123 |
| 0 | 3 | 2 | 5 | 14 | 131 | 139 | 147 | 155 | 163 | 171 | 179 | 187 |
| 0 | 3 | 3 | 7 | 15 | 195 | 203 | 211 | 219 | 227 | 235 | 243 | 251 |
| 1 | 5 | 0 | 9 | 20 | 5 | 13 | 21 | 29 | 37 | 45 | 53 | 61 |
| 1 | 5 | 1 | 11 | 21 | 69 | 77 | 85 | 93 | 101 | 109 | 117 | 125 |
| 1 | 5 | 2 | 13 | 22 | 133 | 141 | 149 | 157 | 165 | 173 | 181 | 189 |
| 1 | 5 | 3 | 15 | 23 | 197 | 205 | 213 | 221 | 229 | 237 | 245 | 253 |
| 1 | 7 | 0 | 17 | 28 | 7 | 15 | 23 | 31 | 39 | 47 | 55 | 63 |
| 1 | 7 | 1 | 19 | 29 | 71 | 79 | 87 | 95 | 103 | 111 | 119 | 127 |
| 1 | 7 | 2 | 21 | 30 | 135 | 143 | 151 | 159 | 167 | 175 | 183 | 191 |
| 1 | 7 | 3 | 23 | 31 | 199 | 207 | 215 | 223 | 231 | 239 | 247 | 255 |
| 2 | 10 | 0 | 25 | 40 | 2 | 10 | 18 | 26 | 34 | 42 | 50 | 58 |
| 2 | 10 | 1 | 27 | 41 | 66 | 74 | 82 | 90 | 98 | 106 | 114 | 122 |
| 2 | 10 | 2 | 29 | 42 | 130 | 138 | 146 | 154 | 162 | 170 | 178 | 186 |
| 2 | 10 | 3 | 31 | 43 | 194 | 202 | 210 | 218 | 226 | 234 | 242 | 250 |
| 3 | 12 | 0 | 33 | 48 | 4 | 12 | 20 | 28 | 36 | 44 | 52 | 60 |
| 3 | 12 | 1 | 35 | 49 | 68 | 76 | 84 | 92 | 100 | 108 | 116 | 124 |
| 3 | 12 | 2 | 37 | 50 | 132 | 140 | 148 | 156 | 164 | 172 | 180 | 188 |
| 3 | 12 | 3 | 39 | 51 | 196 | 204 | 212 | 220 | 228 | 236 | 244 | 252 |
| 3 | 14 | 0 | 41 | 56 | 6 | 14 | 22 | 30 | 38 | 46 | 54 | 62 |
| 3 | 14 | 1 | 43 | 57 | 70 | 78 | 86 | 94 | 102 | 110 | 118 | 126 |
| 3 | 14 | 2 | 45 | 58 | 134 | 142 | 150 | 158 | 166 | 174 | 182 | 190 |
| 3 | 14 | 3 | 47 | 59 | 198 | 206 | 214 | 222 | 230 | 238 | 246 | 254 |

For all tuples with am imtype of SM5PIM or SM5AM this attribute is zero.

**Attribute:**

eq_lis

**Fullname:**

equipped LIs (NLI/ENLI)

**Attribute Description:**

Value shows the number of equipped (E)NLIs for a particular ONTC side. This attribute will have a value of zero for SMs, and will be a multiple of 2 for SM-2000s.

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**Attribute:**
eq_tmslnks
**Fullname:**
equipped TMSLNKs
**Attribute Description:**
The number of TMSLNKs connected to a non-RSM from a particular ONTC side. An RSM will have the value 0 for this attribute.

**Attribute:**
tmsevennct
**Fullname:**
The even TMS NCT link number
**Attribute Description:**
This attribute specifies the even TMS link used for Control Time Slot (CTS) transport between the SM described by the tuple and the TMS. For SMs, this is the only even TMS link, also called an NCT link. If the SM described by the tuple is an RSM, this attribute will contain the value of RLmodatt.tmsevennct of its HSM.

See the lnknum attribute of RLslnktms for a description of the domain and range of this attribute.

This attribute must be populated with the number that uniquely identifies the even TMS NCT link that is connected to this SM.

For all tuples with am imtype of SM5PIM or SM5AM this attribute is zero.

**Attribute:**
tmsoddnct
**Fullname:**
The odd TMS NCT link number
**Attribute Description:**
This attribute specifies the odd TMS link used for Control Time Slot (CTS) transport between the SM described by the tuple and the TMS. For SMs, this is the only odd TMS link, also called an NCT link. If the SM described by the tuple is an RSM, this attribute will contain the value of RLmodatt.tmsoddnct of its HSM.

See the lnknum attribute of RLslnktms for a description of the domain and range of this attribute.

This attribute must be populated with the number that uniquely identifies the odd TMS NCT link that is connected to this SM.

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For all tuples with am imtype of SM5PIM or SM5AM this attribute is zero.

**Attribute:**
iia_normal
**Fullname:**
The normal interrupt state of SM
**Attribute Description:**
This attribute specifies the normal interrupt state of the SM described by this tuple.

The domain of this attribute is BFSTATUS or one bit. The enumeration (DMSTATUS) value that this attribute can assume is SMALLOW if the interrupts are to be allowed if the SM is operating normally, or SMINHIBIT if the interrupts are to be inhibited even if the SM is operating normally.

This attribute should be populated with SMALLOW.

For all tuples with am imtype of SM5PIM or SM5AM this attribute is SMALLOW.

**Attribute:**
eqstat
**Fullname:**
The equipage state of SM
**Attribute Description:**
This attribute describes the equipage state of the SM described by a tuple in this relation

The domain of this attribute is BFEQSTAT or three bits. The enumeration (DMEQSTAT) values that this attribute can assume are the following:

SMOPER - If the SM is equipped and is operational.
SMSGRO - If the SM is in the process of being grown into the office.
SMUNEQ - If the SM is unequipped.

A tuple will exist only for SMs with which an office is equipped. Therefore this attribute should be populated with SMOPER.

For all tuples with am imtype of SM5PIM or SM5AM this attribute is SMOPER.

**Attribute:**
unittype
**Fullname:**
Hardware unit type
**Attribute Description:**

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This attribute describes hardware configuration of the MC and TSI.

There are four types of MCTSI hardware configurations:

1. SMMC - Module controller. (TSIU-SMPU)

2. SMCRIMPU - Cost reduced (single-shelf) switching module processor unit. (TSIU2-SMPU2)

3. SMIMPU3 - Model 3 TSIU (single-shelf TSIU) can be used only with SMPU2. (TSIU3-SMPU2)

4. SMSMP20 - MC68020 processor used in the module controller. This includes the TSIU3 hardware. (MCTU2)

NOTE: For the ORM a model 3 TSIU is necessary.

For 5e9 there is a fifth hardware configuration of the MCTSI:

5) SMSM2000: MC68040 processor used in the module controller. This includes the TSIU4 hardware.

NOTE: For the ORM a Model 3 or 4 TSIU is necessary.

For 5e10(1) there is a sixth hardware configuration for the MCTSI:

6) SMMCTU3: SB20CORE (with a MC68040 as the microprocessor), and a TSIU3.
7) SMSM2005: MC68060 processor used in the module controller. This includes the TSIU4 hardware.

**Attribute:**
bstr_cli
**Fullname:**
Change level indicator (CLI) value for the bootstrapper
**Attribute Description:**
The btsr_cli attribute is the same as the PCBTSR CLI attribute. see POPULATION RULES FOR THE MCTSI in relation RLcktdata for the bootstrapper circuit (PCBTSR).

For all tuples with am imtype of SM5PIM or SM5AM this attribute is zero.

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**Attribute:**
mctsi0_cli
**Fullname:**
MCTSI side 0 CLI
**Attribute Description:**
For a module containing an MCTSI 0, the mctsi0_cli attribute is the same as the PC_MP CLI attribute. See POPULATION RULES FOR THE MCTSI in relation RLcktdata for the module processor circuit (PC_MP).

For all tuples with am imtype of SM5PIM or SM5AM this attribute is zero.

**Attribute:**
mctsi1_cli
**Fullname:**
MCTSI side 1 CLI
**Attribute Description:**
For a module containing an MCTSI 1, the mctsi1_cli attribute is the same as the PC_MP CLI attribute. See POPULATION RULES FOR THE MCTSI in relation RLcktdata for the module processor circuit (PC_MP).

For all tuples with am imtype of SM5PIM or SM5AM this attribute is zero.

**Attribute:**
dli0_cli
**Fullname:**
Dual link interface (DLI) side 0 CLI
**Attribute Description:**
For a module containing a DLI 0, the dli0_cli attribute is the same as the PCDLI or PCRLI (remote module) CLI attributes. See POPULATION RULES FOR THE MCTSI in relation RLcktdata for the dual link interface circuit (PCDLI) or remote link interface circuit (PCRLI).

For all tuples with an imtype of SM5PIM or SM5AM this attribute is zero.

**Attribute:**
dli1_cli
**Fullname:**
DLI side 1 CLI
**Attribute Description:**
For a module containing a DLI 1, the dli1_cli attribute is the same as PCDLI or PCRLI (remote module) CLI attributes. See POPULATION RULES FOR THE MCTSI in relation RLcktdata for the dual link interface circuit (PCDLI) or remote link interface circuit (PCRLI).

For all tuples with am imtype of SM5PIM or SM5AM

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this attribute is zero.

**Attribute:**
mh[*]_cli
**Fullname:**
Message Handler CLI for MCTSI Side (0:1)
**Attribute Description:**
For an SM-2000, this attribute contains the change level indicator for the first Message Handler (MH) in MCTSI side (0:1). See population rules for the MCTSI in relation RLcktdata for the Message Handler circuit (PCMH).

For all tuples with a unittype other than SMSM2000 or SMSM2005 this attribute is 0.

**Attribute:**
tsi[*]_cli
**Fullname:**
TSI Common Board CLI for MCTSI Side (0:1)
**Attribute Description:**
For an SM-2000, this attribute contains the change level indicator for the TSI Common Board (TSICOM) in MCTSI side (0:1). See population rules for the MCTSI in relation RLcktdata for the TSI Common circuit (PCTSI).

For all tuples with a unittype other than SMSM2000 or SMSM2005 this attribute is 0.

**Attribute:**
post_pump
**Fullname:**
Post pump
**Attribute Description:**
This attribute is used by SM and RSM growth. It is used to tell if the SM or RSM has ever been fully pumped. If it has not the attribute = DBNO, after it has been pumped by using the SM view in recent change the attribute is updated to DBYES and relations are populated in the SM that could not be populated by the skeleton.

If SM eqstat=SMUNEQ, post_pump=DBNO. If SM eqstat=SMSGRO post_pump=DBNO and then updated to DBYES after first pump. If SM eqstat=SMOPER post_pump=DBYES.

**Attribute:**
log_act
**Fullname:**
Logically active processor number
**Attribute Description:**
This attribute applies only to CMPs and indicates whether this

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is a logically active processor number.

**Attribute:**
mscu_norm
**Fullname:**
Message switch (MSGS) normalized data
**Attribute Description:**
This attribute is only for CMPs and indicates the MSGS side that this CMP should be on when the MSGS is normalized

**Attribute:**
ql_ntwk0
**Fullname:**
QLPS network 0 MH pipe
**Attribute Description:**
This attribute is used to indicate the existence of a QLPS MH pipe to the given SM-2000 for QLPS network 0.

**Attribute:**
ql_ntwk1
**Fullname:**
QLPS network 1 MH pipe
**Attribute Description:**
This attribute is used to indicate the existence of a QLPS MH pipe to the given SM-2000 for QLPS network 1.

**Attribute:**
ccitt6sm

**Fullname:**
Telecommunication Standardization Sector (ITU-TS) (formerly CCITT) Common Channel Signaling System 6 SM

**Attribute Description:**
This attribute is used to indicate if this SM has a direct interface with ITU-TS CCS6 signaling on the PSU.

Note: No CCS6 signaling is allowed on the PSU at this time.

**Attribute:**
ccs7sm

**Fullname:**
Common Channel Signaling System 7 SM

**Attribute Description:**
This attribute is used to indicate if this SM has a direct interface CCSNA7 signaling on the PSU.

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Note: No CCSNA7 signaling is allowed on the PSU at this time.

**Attribute:**
intl7sm

**Fullname:**
Standardization Sector (SS7) (formerly CCITT7)
international network SM

**Attribute Description:**
This attribute is used to indicate if this SM has a direct
interface with ITU-TS INTL SS7 signaling on the PSU.

**Attribute:**
natl7sm

**Fullname:**
Standardization Sector (SS7) (formerly CCITT7) national
network SM

**Attribute Description:**
This attribute is used to indicate if this SM has a direct
interface with ITU-TS NATL SS7 signaling on the PSU.

**Attribute:**
billsm

**Fullname:**
Global Billing SM

**Attribute Description:**
This attribute is used to indicate the Global Billing SM
which will send records to the collector system over the external
Ethernet(R) links for Real Time Call Detail.(RTCD)

**Attribute:**
eecsm

**Fullname:**
External Echo Canceller SM

**Attribute Description:**
This attribute is used for the Jupiter project and referred to
as external echo canceller SM, this SM has external Ethernet(R) links
to Jupiter system.

**Defines:**
"db/DMclidef.h"

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# MODCLI

## 1. Description

This relation defines the Change Level Indicators (CLI)s for a Switching Module (SM) which will be zeroed during the ODD create step of SM growth.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 192 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| relation type | DBSTATIC |
| distribution | LP |
| application | DGN |
| expected | 24 |
| density | 82 |
| ks - key store | AUTO |

## 3. Field Layout

```
MODCLI      relid = 2085  DBSTATIC   DBACC_CIND  DBPRAM    LP      DGN
     module       DMMODULE     (ushort: 8)     <--- key, not stored
     membd0_cli   DMHEX32      (ulong)
     membd1_cli   DMHEX32      (ulong)
     membd2_cli   DMHEX32      (ulong)
     membd3_cli   DMHEX32      (ulong)
     membd4_cli   DMHEX32      (ulong)
     membd5_cli   DMHEX32      (ulong)
     tsis_cli     DMHEX32      (ulong)
     ci0_cli      DMHEX32      (ulong)
     ci1_cli      DMHEX32      (ulong)
         User and Compacted Tuple Layout     MODCLI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |     module    |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           membd0_cli                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                           membd1_cli                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                           membd2_cli                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                           membd3_cli                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                           membd4_cli                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 24 |                           membd5_cli                          |
```

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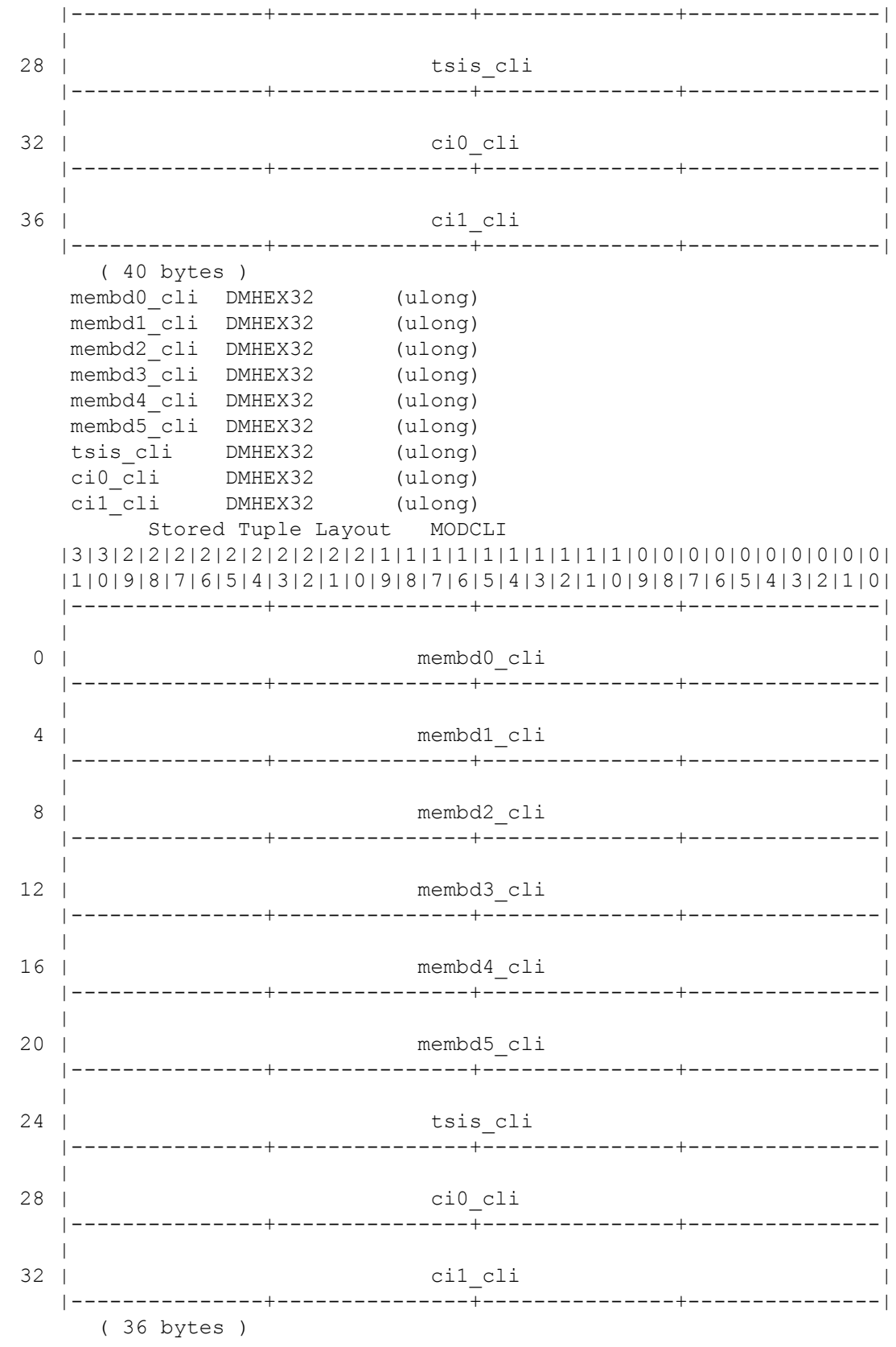


## 4. Population Rules for RLmodcli

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**Relation Description** Switching Modules CLI information

This relation contains CLI information associated with switching modules (SMs) of all functional types, namely, local SMs (LSMs), host SMs (HSMs), remote switching modules (RSMs). There is one tuple in this relation for each SM in the office. The CLIs in the relation are zeroed during the odd-create step of the SM growth procedure.

This relation is intended to hold all SM sub unit CLI values that will be cleared by odd-create. This includes all sub units that have their own RC growth view. In the future, as more units become growable and thus have their own RC view, their CLI values should be moved from RLmodatt to here (if they already exist), or added here initially (for new units).

**Attribute: module**

**Fullname:** SM number

**Attribute Description** This attribute uniquely identifies each SM with which the office is equipped. This attribute is used as the key for this relation.
For a CM1 office, the valid range is 1 to 48.
For a CM2 office, the valid range is 1 to 192.
Note that the value 193 is used to represent the administrative module (AM), although no tuple is needed in this relation to represent the AM.

**Attribute: membd[*]_cli**

**Fullname:** CLI value for memory board 0 thru 5

**Attribute Description**

(1) When 'unittype' is not equal to SMSMP20, SMCRIMPU, SMIMPU3, SMSM2000, or SMSM2005 these attributes are unused and all entries should be 0.

(2) When 'unittype' is equal to SMSMP20, SMCRIMPU, SMIMPU3, SMSM2000, or SMSM2005 these attributes contain the CLI values for the SMP memory boards during growth. (Note: Because the MCTU3 does not support memory boards, this attribute should always be 0 when 'unittype' is equal to SMMCTU3.)

These attributes must be zero for operational SMs. The relation RLcktdata contains the current CLI values and is updated by memory board views for operational SMs (type PCMEMBD; see "POPULATION RULES FOR THE MEMORY BOARD" in relation RLcktdata for the Memory board).

**Attribute: tsis_cli**

**Fullname:** TSI Slice 0 CLI for MCTSI Side (0 and 1)

**Attribute Description** For an SM-2000, this attribute contains the change level indicator for the first TSI Slice (TSIS 0) in both MCTSI sides (0,1). Note that it is required that the TSIS 0 be IDENTICAL on both sides when the SM is initially grown. After the SM is operational, the CLI for these boards are split into two per-side CLI values, and as such it will then be possible for TSIS 0 to be different in the two sides.

The ODDCREAT process will zero out this value when the SM becomes operational. The CLI data for TSIS 0 will then be kept in the RLcktdata relation. See population rules for the TSIS in relation RLcktdata (PCTSIS) for more details.

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For all tuples with a unittype other than SMSM2000 or SMSM2005 this attribute is 0.

**Attribute: ci[*]_cli**

**Fullname:** First two pairs of CI CLIs for Control Interface Boards Side 0 and 1

**Attribute Description** For SM and SM-2000 growth, these attributes contain the change level indicator for the first two pairs of CI boards in both MCTSI sides (0,1). The first two pairs of CI boards are located in the SMC cabinet. It is required that both CIs in a pair be IDENTICAL on both sides when the SM is initially grown (although the two pairs may have different values). The first pair is always required. The second pair is required only for RSMs.

Valid values are DGVNULL for CI without broadcast and real time capability, and DGVCIBDCAST for CIs with broadcast and real time capability. For SM-2000 valid values are DGVNULL and DGVCIBDCAST and for SMs is DGVNULL.

**Defines:**
"db/DMmodule.h",
"db/DMclidef.h"

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# MONI_BLF

## 1. Description

Hundreds (100s) group busy lamp field being monitored, line equipment or MLHG dn allocation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 255 |
| expected tuples in relation | 50 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | RTcldat |
| insert trigger | DBYES |
| update trigger | DBNO |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
MONI_BLF    relid = 941   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     hgid        DMHGID       (ulong: 22)     <--- key
     index       DMUNS8       (ushort: 8)
     hgleq1      DMDNSTAT     (uchar)
     hgleq2      DMDNSTAT     (uchar)
     hgleq3      DMDNSTAT     (uchar)
     hgleq4      DMDNSTAT     (uchar)
     hgleq5      DMDNSTAT     (uchar)
     hgleq6      DMDNSTAT     (uchar)
     hgleq7      DMDNSTAT     (uchar)
     hgleq8      DMDNSTAT     (uchar)
     hgleq9      DMDNSTAT     (uchar)
     hgleq10     DMDNSTAT     (uchar)
     hgleq11     DMDNSTAT     (uchar)
     hgleq12     DMDNSTAT     (uchar)
     hgleq13     DMDNSTAT     (uchar)
         User, Compacted and Stored Tuple Layout   MONI_BLF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                             |               |   |
  0 |                     hgid                    |     index     |***|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |     hgleq1    |     hgleq2    |     hgleq3    |     hgleq4    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  8 |     hgleq5    |     hgleq6    |     hgleq7    |     hgleq8    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 12 |     hgleq9    |    hgleq10    |    hgleq11    |    hgleq12    |
    |---------------+---------------+---------------+---------------|
    |               |                                               |
 16 |    hgleq13    |***********************************************|
```

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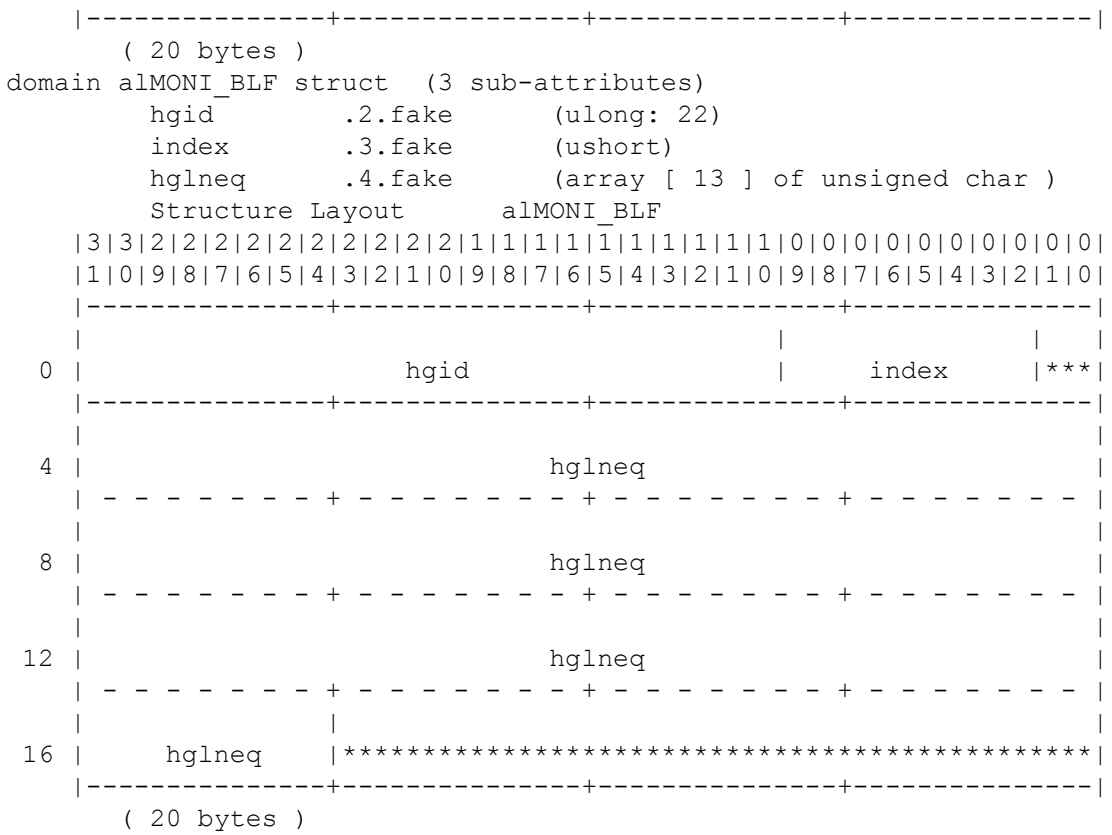


## 4. Population Rules for RLmoni_blf

**Relation Description** monitoring busy lamp field

Hundreds (100s) group busy lamp field being monitored, line equipment or MLHG dn allocation.

**Attribute: hgid**

**Fullname:** Hundreds group ID.

**Attribute Description** hundred group identifier in hex with three sub-bit fields:

```
noc     Normalized Office Code
        Range: 1 - AVNOCMAX()
        Default: none
d4      Thousand weighted digit
        Range: 0 - 9
        Default: none
 d3     Hundred weighted digit
        Range: 0 - 9
        Default: none
```

**Attribute: index**

**Fullname:** 100s group line status database index

**Attribute Description** MONI_BLF.index is sequentially assigned within each SM.

After a MONI_BLF tuple is added or deleted, the global parameters Glmoniablf and Glreplyblf

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should also be updated in the same SM as the MONI_BLF tuple. Refer to the population rules for these two global parameters.

Hundreds (100s) group line status database index. This is the actual key used to access the associated LDAT_BLF dynamic relation tuple. This index MUST be unique for each MONI_BLF tuple in the SM. To the extent possible they should be allocated contiguously.

For each unique number assigned to the index in MONI_BLF, the corresponding bit in the global parameter Glmoni1x - Glmoni8x should be set to '1'. These global parameters contain 32 bits each, for a combined total BIT MAP of 256 bits. The lowest order bit of Glmoni1x indicates assignment of index '0'. Since index '0' is not used, this bit should never be set to '1'. The next bit (bit position 1) is used to indicate equipage of index '1', etc. The lowest order bit of Glmoni2x indicates assignment of index '32', etc.

The global parameter GlmoniablF is the number of equipped indices (the number of tuples in the SM relation MONI_BLF). It also represents the number of bits that should be set to '1' in Glmoni1x - Glmoni8x.

***NOTE:*** Refer to the population rules of Glmoni1x - Glmoni8x,

> It is CRITICAL that the corresponding bit in Glmoni1x - Glmoni8x be set for each assigned index, otherwise Recent Change will NOT work.

**Attribute: hgleq[*]**

**Fullname:** 100s group line equipment or MLHG dn allocation

**Attribute Description** This attribute is implemented as 13 fields (hgleq1 to hgleq13) which can be viewed as an array of bits, where each field is one byte in length. Each bit is used to indicate that a corresponding DN is BLF monitorable by an ISDN Attendant (ISAT).

For example:

hgleq1 contains the first byte (8 bits) of 100s group hglneq, where each bit set to '0' denotes DN is not monitorable, and each bit set to '1' denotes DN is monitorable.

```
hgleq1              Hundred digit number          (1st byte)
                    07 06 05 04 03 02 01 00
                   _________________________
                   |  |  |  |  |  |  |  |  |
                   -------------------------
hgleq2              Hundred digit number          (2nd byte)
                    15 14 13 12 11 10 09 08
                   _________________________
                   |  |  |  |  |  |  |  |  |
                   -------------------------
hgleq3             Hundred digit number          (3rd byte)
                    23 22 21 20 19 18 17 16
                   _________________________
                   |  |  |  |  |  |  |  |  |
                   -------------------------
 hgleq4            Hundred digit number          (4th byte)
                    31 30 29 28 27 26 25 24
                   _________________________
                   |  |  |  |  |  |  |  |  |
                   -------------------------
```

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hgleq5 Hundred digit number (5th byte)
39 38 37 36 35 34 33 32

| | | | | | | | |

hgleq6 Hundred digit number (6th byte)
47 46 45 44 43 42 41 40

| | | | | | | | |

hgleq7 Hundred digit number (7th byte)
55 54 53 52 51 50 49 48

| | | | | | | | |

hgleq8 Hundred digit number (8th byte)
63 62 61 60 59 58 57 56

| | | | | | | | |

hgleq9 Hundred digit number (9th byte)
71 70 69 68 67 66 65 64

| | | | | | | | |

hgleq10 Hundred digit number (10th byte)
79 78 77 76 75 74 73 72

| | | | | | | | |

hgleq11 Hundred digit number (11th byte)
87 86 85 84 83 82 81 80

| | | | | | | | |

hgleq12 Hundred digit number (12th byte)
95 94 93 92 91 90 89 88

| | | | | | | | |

hgleq13 Hundred digit number (13th byte)
* * * * 99 98 97 96

| 0| 0| 0| 0| | | | |

* - indicates the unused bits which are padded with '0's.

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# MONTOQ

## 1. Description

List of MLHG queues monitored by a queue monitor console. The queue monitor console has from one to eight MLHG Queue Status Feature Buttons (QSFBs) used to request queue status data for different MLHGs. The action in RLbnfeat associated with a QSFB determines which MLHG applies. If RLbnfeat.action is ACN_LQ1DISP then the QSFB is associated with RLmontoq.mlhg1. If RLbnfeat.action is ACN_LQ2DISP then the QSFB is associated with RLmontoq.mlhg2, etc.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| permutation type | unperm |

## 3. Field Layout

```
MONTOQ      relid = 1334  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     lport       DMLPORT      (ushort: 16)  <--- key
 (a) termno      DMTERMNO     (uchar: 1)  <--- key
     mlhg1       DMGRPNUM     (ushort)
     mlhg2       DMGRPNUM     (ushort)
     mlhg3       DMGRPNUM     (ushort)
     mlhg4       DMGRPNUM     (ushort)
     mlhg5       DMGRPNUM     (ushort)
     mlhg6       DMGRPNUM     (ushort)
     mlhg7       DMGRPNUM     (ushort)
     mlhg8       DMGRPNUM     (ushort)
     q_sm1       DMMODULE     (ushort: 8)
     q_sm2       DMMODULE     (ushort: 8)
     q_sm3       DMMODULE     (ushort: 8)
     q_sm4       DMMODULE     (ushort: 8)
     q_sm5       DMMODULE     (ushort: 8)
     q_sm6       DMMODULE     (ushort: 8)
     q_sm7       DMMODULE     (ushort: 8)
     q_sm8       DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout MONTOQ
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               | |                             |
  0 |             lport             |a|*****************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             mlhg1             |             mlhg2             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |             mlhg3             |             mlhg4             |
    |---------------+---------------+---------------+---------------|
```

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```
    |                               |                               |
 12 |             mlhg5             |             mlhg6             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 16 |             mlhg7             |             mlhg8             |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 20 |     q_sm1     |     q_sm2     |     q_sm3     |     q_sm4     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 24 |     q_sm5     |     q_sm6     |     q_sm7     |     q_sm8     |
    |---------------+---------------+---------------+---------------|
       ( 28 bytes )
domain alMONTOQ   struct  (4 sub-attributes)
         lport       unsigned short (ushort)
 (a)     termno      .9.fake      (uchar: 1)
         mlhg        .10.fake     (array [ 8 ] of unsigned short )
         q_sm        .11.fake     (array [ 8 ] of unsigned char )
         Structure Layout      alMONTOQ
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               | |                             |
  0 |             lport             |a|*****************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             mlhg                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             mlhg                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                             mlhg                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                             mlhg                              |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                             q_sm                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 24 |                             q_sm                              |
    |---------------+---------------+---------------+---------------|
       ( 28 bytes )
```

## 4. Population Rules for RLmontoq

**Relation Description** Multi-line hunt group (MLHG) queue monitor console to MLHG queues.

This relation contains the information on the eight multiline hunt groups and their queuing switching modules (SM)s monitored by the queue monitor console.

To better utilize the resources of the switch each queue monitor console should be located on the queuing SM for the multiline hunt groups that the queue monitor console monitors. The queue monitor console's SM is the SM

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containing the RLmontoq tuple. The MLHG queuing SMs are RLmontoq.q_sm1, RLmontoq.q_sm2, ..., RLmontoq.q-Sm8."

**Attribute: lport**

**Fullname:** logical port

**Attribute Description** The feature CSD queuing enables one queue monitor console to monitor eight different Multi-Line Hunt group's queues. The logical port number and the terminal number constitutes unique identification for queue monitor console which monitors at most eight different MLHG's queues.

**Attribute: termno**

**Fullname:** terminal number

**Attribute Description** A terminating digital subscriber line can have one to eight terminal numbers. Logical port and terminal number constitutes the unique identification for the queue monitor console.

**Attribute: mlhg1**

**Fullname:** Multiline Hunt group one

**Attribute Description** The mlhg1 is the multi-line hunt group number associated with the feature button for action ACN_LQ1DISP.

**Attribute: mlhg2**

**Fullname:** multi-line hunt group two

**Attribute Description** The mlhg2 is a multi-line hunt group number associated with feature button for action ACN_LQ2DISP.

**Attribute: mlhg3**

**Fullname:** multi-line hunt group three

**Attribute Description** The mlhg3 is a multi-line hunt group number associated with the feature button for action ACN_LQ3DISP.

**Attribute: mlhg4**

**Fullname:** multi-line hunt group four

**Attribute Description** The mlhg4 is the multiline hunt group number associated with the feature button for action ACN_LQ4DISP.

**Attribute: mlhg5**

**Fullname:** multi-line hunt group five

**Attribute Description** The mlhg5 is a multi-line hunt group number associated with the feature button for action ACN_LQ5DISP.

**Attribute: mlhg6**

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**Fullname:** multi-line hunt group six

**Attribute Description** The mlhg6 is multi-line hunt group number associated with the feature button for action ACN_LQ6DISP.

**Attribute: mlhg7**

**Fullname:** multi-line hunt group seven

**Attribute Description** The mlhg7 is the multi-line hunt group number associated with the feature button for action ACN_LQ7DISP.

**Attribute: mlhg8**

**Fullname:** multi-line hunt group eight

**Attribute Description** The mlhg8 is the multi-line hunt group number associated with the feature button for action ACN_LQ8DISP.

**Attribute: q_sm1**

**Fullname:** queuing switching module one

**Attribute Description** The queue status information for mlhg1 resides in q_sm1 in static relation RLqu_os and in dynamic relation RLqo_mlhg.

**Attribute: q_sm2**

**Fullname:** queuing switching module two

**Attribute Description** The queue status information for mlhg2 resides in q_sm2 in static relation RLqu_os and in dynamic relation RLqo_mlhg

**Attribute: q_sm3**

**Fullname:** queuing switching module three

**Attribute Description** The queue status information for mlhg3 resides in q_sm3 in static relation RLqu_os and in dynamic relation RLqo_mlhg

**Attribute: q_sm4**

**Fullname:** queuing switching module four

**Attribute Description** The queue status information for mlhg4 resides in q_sm4 in static relation Rlqu_os and in dynamic relation Rlqo_mlhg

**Attribute: q_sm5**

**Fullname:** queuing switching module five

**Attribute Description** The queue status information for mlhg5 resides in q_sm5 in static relation Rlqu_os and in dynamic relation RLqo_mlhg

**Attribute: q_sm6**

**Fullname:** queuing switching module six

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**Attribute Description** the queue status information for mlhg6 resides in q_sm6 in static relation RLqu_os and in dynamic relation RLqo_mlhg

**Attribute: q_sm7**

**Fullname:** queuing switching module seven

**Attribute Description** The queue status information for mlhg7 resides in q_sm7 in static relation RLqu_os and in dynamic relation RLqo_mlhg

**Attribute: q_sm8**

**Fullname:** queuing switching module eight

**Attribute Description** The queue status information for mlhg8 resides in q_sm8 in the static relation RLqu_os and in dynamic relation RLqo_mlhg.

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# MS_ACSR

## 1. Description

Automatic Customer Station Rearrangement (ACSR) group measurements.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | LP |
| application | EADAS |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
MS_ACSR     relid = 1130  DBSTATIC   DBACC_LIN   DBPRAM    LP      EADAS
     module      DMMODULE     (ushort: 8)  <--- key
     ids_in_use  DMACSRCNT    (uchar)
     grp_id1     DMMS_GPID    (ushort)
     grp_id2     DMMS_GPID    (ushort)
     grp_id3     DMMS_GPID    (ushort)
     grp_id4     DMMS_GPID    (ushort)
     grp_id5     DMMS_GPID    (ushort)
     grp_id6     DMMS_GPID    (ushort)
     grp_id7     DMMS_GPID    (ushort)
     grp_id8     DMMS_GPID    (ushort)
     grp_id9     DMMS_GPID    (ushort)
     grp_id10    DMMS_GPID    (ushort)
     grp_id11    DMMS_GPID    (ushort)
     grp_id12    DMMS_GPID    (ushort)
     grp_id13    DMMS_GPID    (ushort)
     grp_id14    DMMS_GPID    (ushort)
     grp_id15    DMMS_GPID    (ushort)
     grp_id16    DMMS_GPID    (ushort)
     grp_id17    DMMS_GPID    (ushort)
     grp_id18    DMMS_GPID    (ushort)
     grp_id19    DMMS_GPID    (ushort)
     grp_id20    DMMS_GPID    (ushort)
     grp_id21    DMMS_GPID    (ushort)
     grp_id22    DMMS_GPID    (ushort)
     grp_id23    DMMS_GPID    (ushort)
     grp_id24    DMMS_GPID    (ushort)
     grp_id25    DMMS_GPID    (ushort)
         User, Compacted and Stored Tuple Layout    MS_ACSR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |     module    |   ids_in_use  |            grp_id1            |
    |---------------+---------------+---------------+---------------|
```

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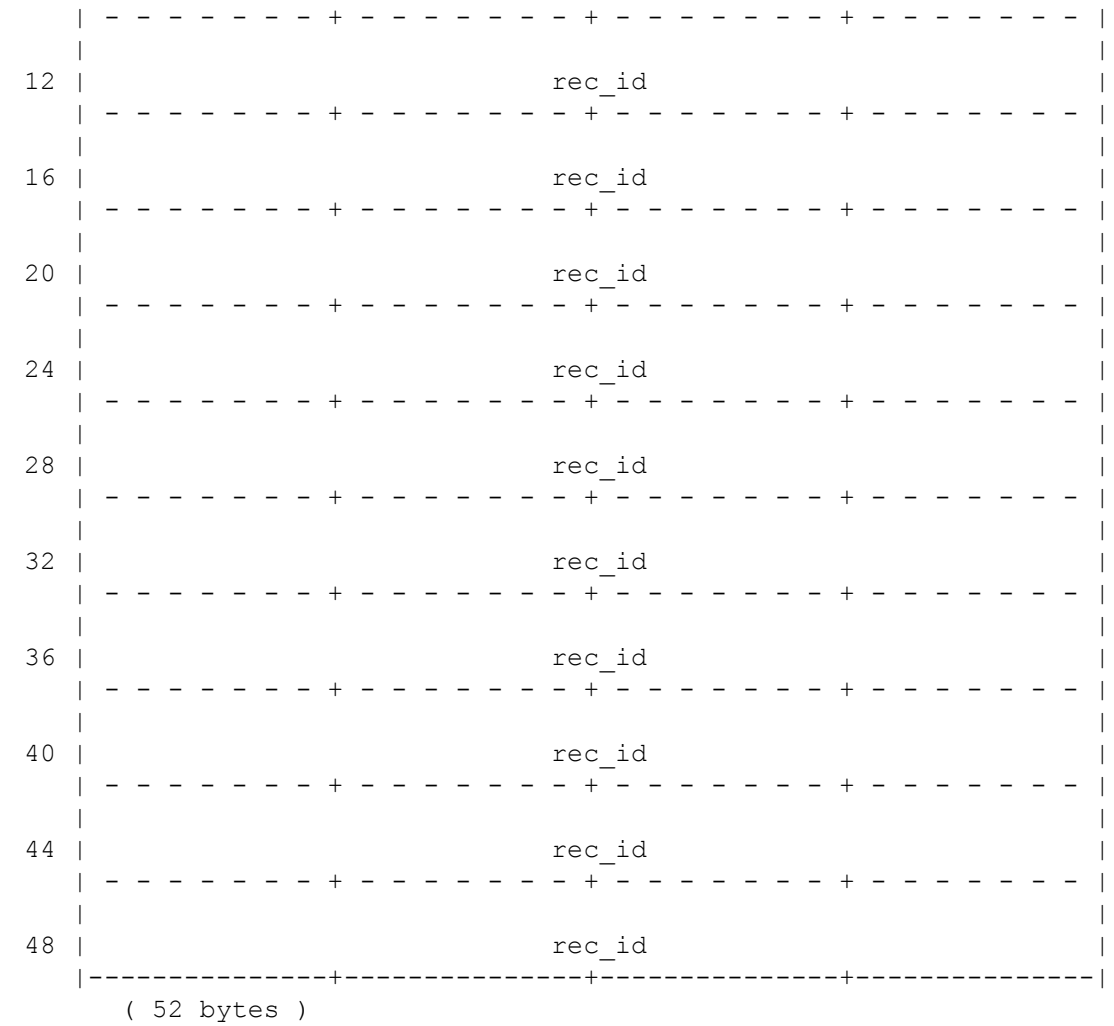
```
    |                               |                               |
  4 |            grp_id2            |            grp_id3            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            grp_id4            |            grp_id5            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |            grp_id6            |            grp_id7            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 16 |            grp_id8            |            grp_id9            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 20 |            grp_id10           |            grp_id11           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 24 |            grp_id12           |            grp_id13           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 28 |            grp_id14           |            grp_id15           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 32 |            grp_id16           |            grp_id17           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 36 |            grp_id18           |            grp_id19           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 40 |            grp_id20           |            grp_id21           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 44 |            grp_id22           |            grp_id23           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 48 |            grp_id24           |            grp_id25           |
    |---------------+---------------+---------------+---------------|
      ( 52 bytes )
domain alMS_ACSR   struct  (3 sub-attributes)
        module      .1.fake      (ushort)
        ids_in_u    unsigned char (uchar)
        rec_id      .2.fake      (array [ 25 ] of unsigned short )

        Structure Layout      alMS_ACSR
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |     module    |    ids_in_u   |             rec_id            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                             rec_id                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             rec_id                            |
```




## 4. Population Rules for RLms_acsr

**Relation Description:** This relation specifies the group ID's of the ACSR groups to be measured. A maximum of 25 ACSR groups can be measured simultaneously.

Referenced relations: RLfacname:

**Attribute: module**

**Fullname:** Module;

**Attribute Description** Module is a dummy key value that always has a value of 0.

**Attribute: ids_in_use**

**Fullname:** Group Id's in use;

**Attribute Description** This attribute indicates the number of 'grp_id' attributes that are in use or the number of ACSR groups being measured.

**Attribute: grp_id[*]**

**Fullname:** Group Identifier;

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**Attribute Description** This attribute specifies the group id of the ACSR group to be measured. This attribute is one of several group ID's. The groupid must be unique, that is, it may appear in at most one grp_id{1-25} field.

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# MS_AP

## 1. Description

Measurement counts.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3 |
| access type - sequential | DBACC_LIN |
| memory type | DBPRAM |
| distribution | LP |
| application | EADAS |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
MS_AP       relid = 856   DBSTATIC   DBACC_LIN   DBPRAM    LP      EADAS
     mftype       DMMFTYPE     (enum: 6)  <--- key
 (a) mdc          DMBOOL       (enum: 1)  <--- key
     idscnt       DMIDSCNT     (ushort: 5)
     edmsgp1      DMEDMSGRPN   (ushort)
     edmsgp2      DMEDMSGRPN   (ushort)
     edmsgp3      DMEDMSGRPN   (ushort)
     edmsgp4      DMEDMSGRPN   (ushort)
     edmsgp5      DMEDMSGRPN   (ushort)
     edmsgp6      DMEDMSGRPN   (ushort)
     edmsgp7      DMEDMSGRPN   (ushort)
     edmsgp8      DMEDMSGRPN   (ushort)
     edmsgp9      DMEDMSGRPN   (ushort)
     edmsgp10     DMEDMSGRPN   (ushort)
     edmsgp11     DMEDMSGRPN   (ushort)
     edmsgp12     DMEDMSGRPN   (ushort)
     edmsgp13     DMEDMSGRPN   (ushort)
     edmsgp14     DMEDMSGRPN   (ushort)
     edmsgp15     DMEDMSGRPN   (ushort)
     edmsgp16     DMEDMSGRPN   (ushort)
     edmsgp17     DMEDMSGRPN   (ushort)
     edmsgp18     DMEDMSGRPN   (ushort)
     edmsgp19     DMEDMSGRPN   (ushort)
     edmsgp20     DMEDMSGRPN   (ushort)
     edmsgp21     DMEDMSGRPN   (ushort)
     edmsgp22     DMEDMSGRPN   (ushort)
     edmsgp23     DMEDMSGRPN   (ushort)
     edmsgp24     DMEDMSGRPN   (ushort)
     edmsgp25     DMEDMSGRPN   (ushort)
     mlhg_n1      DMGRPNUM     (ushort)
     mlhg_n2      DMGRPNUM     (ushort)
     mlhg_n3      DMGRPNUM     (ushort)
     mlhg_n4      DMGRPNUM     (ushort)
     mlhg_n5      DMGRPNUM     (ushort)
     mlhg_n6      DMGRPNUM     (ushort)
```

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```
    mlhg_n7     DMGRPNUM     (ushort)
    mlhg_n8     DMGRPNUM     (ushort)
    mlhg_n9     DMGRPNUM     (ushort)
    mlhg_n10    DMGRPNUM     (ushort)
    mlhg_n11    DMGRPNUM     (ushort)
    mlhg_n12    DMGRPNUM     (ushort)
    mlhg_n13    DMGRPNUM     (ushort)
    mlhg_n14    DMGRPNUM     (ushort)
    mlhg_n15    DMGRPNUM     (ushort)
    mlhg_n16    DMGRPNUM     (ushort)
    mlhg_n17    DMGRPNUM     (ushort)
    mlhg_n18    DMGRPNUM     (ushort)
    mlhg_n19    DMGRPNUM     (ushort)
    mlhg_n20    DMGRPNUM     (ushort)
    mlhg_n21    DMGRPNUM     (ushort)
    mlhg_n22    DMGRPNUM     (ushort)
    mlhg_n23    DMGRPNUM     (ushort)
    mlhg_n24    DMGRPNUM     (ushort)
    mlhg_n25    DMGRPNUM     (ushort)
        User, Compacted and Stored Tuple Layout  MS_AP
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |           | |         |       |                               |
 0 |   mftype  |a|  idscnt |*******|            edmsgp1            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |            edmsgp2            |            edmsgp3            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |            edmsgp4            |            edmsgp5            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |            edmsgp6            |            edmsgp7            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |            edmsgp8            |            edmsgp9            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |            edmsgp10           |            edmsgp11           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
24 |            edmsgp12           |            edmsgp13           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
28 |            edmsgp14           |            edmsgp15           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
32 |            edmsgp16           |            edmsgp17           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
36 |            edmsgp18           |            edmsgp19           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
```

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```
 40 |            edmsgp20           |            edmsgp21           |
    |-------------+-------------+-------------+-------------|
    |                             |                           |
 44 |            edmsgp22           |            edmsgp23           |
    |-------------+-------------+-------------+-------------|
    |                             |                           |
 48 |            edmsgp24           |            edmsgp25           |
    |-------------+-------------+-------------+-------------|
    |                             |                           |
 52 |            mlhg_n1            |            mlhg_n2            |
    |-------------+-------------+-------------+-------------|
    |                             |                           |
 56 |            mlhg_n3            |            mlhg_n4            |
    |-------------+-------------+-------------+-------------|
    |                             |                           |
 60 |            mlhg_n5            |            mlhg_n6            |
    |-------------+-------------+-------------+-------------|
    |                             |                           |
 64 |            mlhg_n7            |            mlhg_n8            |
    |-------------+-------------+-------------+-------------|
    |                             |                           |
 68 |            mlhg_n9            |            mlhg_n10           |
    |-------------+-------------+-------------+-------------|
    |                             |                           |
 72 |            mlhg_n11           |            mlhg_n12           |
    |-------------+-------------+-------------+-------------|
    |                             |                           |
 76 |            mlhg_n13           |            mlhg_n14           |
    |-------------+-------------+-------------+-------------|
    |                             |                           |
 80 |            mlhg_n15           |            mlhg_n16           |
    |-------------+-------------+-------------+-------------|
    |                             |                           |
 84 |            mlhg_n17           |            mlhg_n18           |
    |-------------+-------------+-------------+-------------|
    |                             |                           |
 88 |            mlhg_n19           |            mlhg_n20           |
    |-------------+-------------+-------------+-------------|
    |                             |                           |
 92 |            mlhg_n21           |            mlhg_n22           |
    |-------------+-------------+-------------+-------------|
    |                             |                           |
 96 |            mlhg_n23           |            mlhg_n24           |
    |-------------+-------------+-------------+-------------|
    |                             |                           |
100 |            mlhg_n25           |*****************************|
    |-------------+-------------+-------------+-------------|
      ( 104 bytes )
domain alMS_AP    struct  (5 sub-attributes)
        mftype      .1fake       (enum)
 (a)    mdc         .0fake       (enum)
        idscnt      .1.fake      (ushort: 5)
        edmsgp      .2.fake      (array [ 25 ] of unsigned short )
        mlhg_n      .3.fake      (array [ 25 ] of unsigned short )
```

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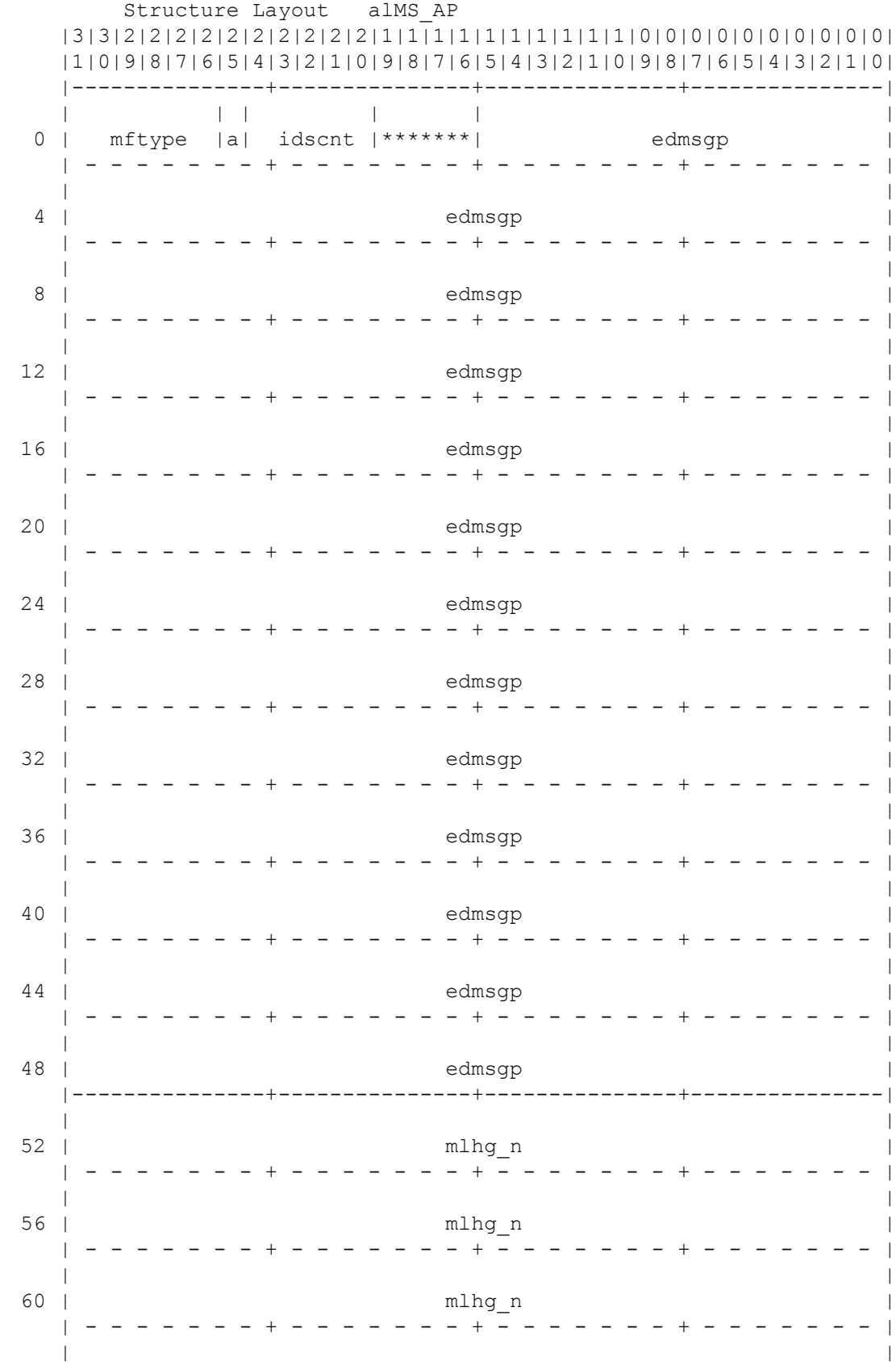
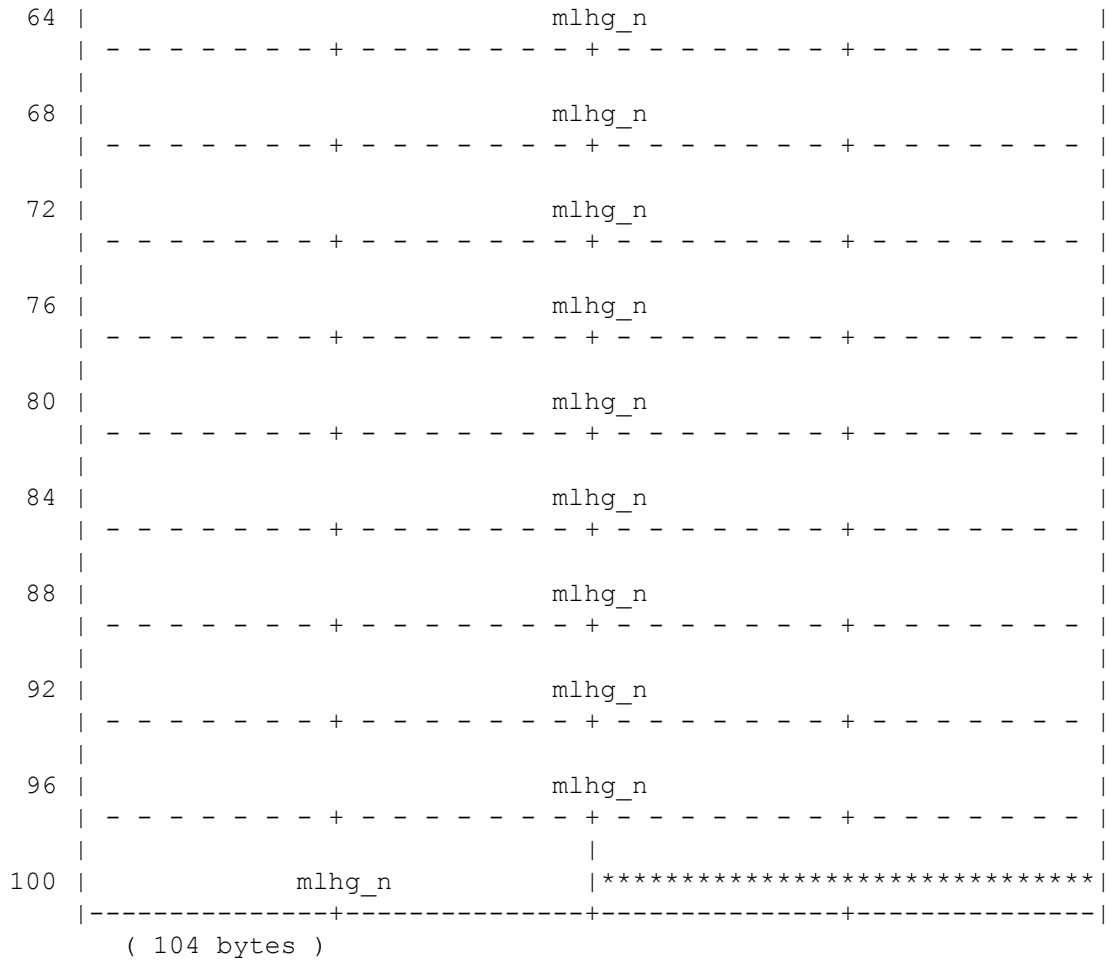
Structure Layout alMS_AP






## 4. Population Rules for RLms_ap

**Relation Description** Measurement counts.

Measurement counts for EDS and MDS.

There must always be three (3) tuples in the RLms_ap relation. One for EDS and two for MDS:

(1) 1 tuple for the Electronic Directory Service user which stores the eds_grpid(1-25) for which the measurements are to be taken. mftype = MFEDS and mdc = DBNO

(2) 1 tuple for the Message Desk Service user which stores the mds_grpid(1-25) for which the measurements are to be taken. mftype = MFMDS and mdc = DBNO

(3) 1 tuple for the Message Desk Center which stores the mlhg_n(1-25) for which measurements are to be taken. mftype = MFMDS and mdc = DBYES

The attributes edmsgp1 thru edmsgp25 and mlhg_n1 thru mlhg_n25 in RLms_ap must be assigned contiguously.

A tuple for eds_grpid, mds_grpid and mlhg_n should be initialized as follows:

| mftype: | md: | eds_grpid: | mds_grpid: | mlhg_n: |
|---|---|---|---|---|
| MFEDS | DBNO | 0 | 0 | 0 |

```
MFMDS       DBNO        0           0             0
MFMDS       DBYES       0           0             0
```

**Attribute: mftype**

**Fullname:** Modular Feature type.

**Attribute Description** Modular Feature id. Only EDS (mftype = MFEDS) or MDS (mftype = MFMDS) is valid for mftype.

**Attribute: mdc**

**Fullname:** Message Desk Center.

**Attribute Description** Message Desk Center.
If this bit is set to DBYES then the mftype must be = MFMDS and edmsgp1 thru edmsgp25 must be = 0.
If DBNO then mftype must be = MFEDS or MFMDS and mlhg_n1 thru mlhg_n25 must be = 0.

**Attribute: idscnt**

**Fullname:** number of in use mlhg_n.

**Attribute Description** This attribute specifies the number of mlhg_n(1-25) or edmsgp(1-25) currently in use.
If no mlhg_n(1-25) or edmsgp(1-25) are in use, the idscnt = 0 and the tuple must not be deleted.

The number of edmsgp(1-25) or mlhg_n(1-25) populated.

**Attribute: edmsgp[*]**

**Fullname:** EDS/MDS Counts record id.

**Attribute Description** EDS/MDS group id

If any edmsgp(1-25) is not zero then mdc flag must be equal to DBNO.

```
For every non-zero edmsgp(1-25) and
mftype = MFMDS there must be one tuple in
RLmds_grp such that:
RLmds_grp.mds_grpid = RLms_ap.edmsgp(1-25)
AND
RLmds_grp.grp_type equals MS_MSS and
RLmds_grp(mds_grpid).msrmnt = DBYES.
```

For every non-zero edmsgp(1-25) and mftype = MFEDS there must be one tuple in RLeds_grp such that: RLeds_grp.eds_grpid = RLms_ap.edmsgp(1-25) AND RLeds_grp(eds_grpid).msrmnt = DBYES.

**Attribute: mlhg_n[*]**

**Fullname:** MDC mlhg number for which measurements is taken.

**Attribute Description** MDC MLHG number. The measurement will be taken only for the mdc which their mlhg_n(1-25) is specified in this relation.

```
For each non-zero mlhg_n(1-25)
```

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```
verify a tuple exists in RLrt_mhg such that
RLrt_mhg.grpnum = mlhg_n(1-25) and
RLrt_mhg.mdc = DBYES.
```

If any non-zero mlhg_n(1-25) exists then mdc flag must be set to DBYES.

For every non-zero mlhg_n(1-25) which exists there must be a tuple in RLmdc_grp such that RLmdc_grp.grupnm = mlhg_n(1-25) and set RLmdc_grp.msrmnt = DBYES.

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# MS_ATT

## 1. Description

Measurements for attendant groups.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | EADAS |
| relation type | DBSTATIC |
| head table size | 1024 |
| data page size | 1024 |
| page level | 1 |
| l1 length of subkey1 | 1 |
| p1 position of subkey1 | 7 |
| permutation type | un_perm |
| ignore key bits | 0-6 |

## 3. Field Layout

```
MS_ATT      relid = 504   DBSTATIC   DBACC_CIND  DBPRAM    LP      EADAS
     im_id        DMMODULE     (ushort: 8)  <--- key
     gps_in_use   DMMCUSECNT   (ushort)
     gp_id1       DMMS_GPID    (ushort)
     gp_id2       DMMS_GPID    (ushort)
     gp_id3       DMMS_GPID    (ushort)
     gp_id4       DMMS_GPID    (ushort)
     gp_id5       DMMS_GPID    (ushort)
     gp_id6       DMMS_GPID    (ushort)
     gp_id7       DMMS_GPID    (ushort)
     gp_id8       DMMS_GPID    (ushort)
     gp_id9       DMMS_GPID    (ushort)
     gp_id10      DMMS_GPID    (ushort)
     gp_id11      DMMS_GPID    (ushort)
     gp_id12      DMMS_GPID    (ushort)
     gp_id13      DMMS_GPID    (ushort)
     gp_id14      DMMS_GPID    (ushort)
     gp_id15      DMMS_GPID    (ushort)
     gp_id16      DMMS_GPID    (ushort)
     gp_id17      DMMS_GPID    (ushort)
     gp_id18      DMMS_GPID    (ushort)
     gp_id19      DMMS_GPID    (ushort)
     gp_id20      DMMS_GPID    (ushort)
     gp_id21      DMMS_GPID    (ushort)
     gp_id22      DMMS_GPID    (ushort)
     gp_id23      DMMS_GPID    (ushort)
     gp_id24      DMMS_GPID    (ushort)
     gp_id25      DMMS_GPID    (ushort)
     gp_id26      DMMS_GPID    (ushort)
     gp_id27      DMMS_GPID    (ushort)
     gp_id28      DMMS_GPID    (ushort)
     gp_id29      DMMS_GPID    (ushort)
     gp_id30      DMMS_GPID    (ushort)
```

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```
gp_id31     DMMS_GPID    (ushort)
gp_id32     DMMS_GPID    (ushort)
gp_id33     DMMS_GPID    (ushort)
gp_id34     DMMS_GPID    (ushort)
gp_id35     DMMS_GPID    (ushort)
gp_id36     DMMS_GPID    (ushort)
gp_id37     DMMS_GPID    (ushort)
gp_id38     DMMS_GPID    (ushort)
gp_id39     DMMS_GPID    (ushort)
gp_id40     DMMS_GPID    (ushort)
gp_id41     DMMS_GPID    (ushort)
gp_id42     DMMS_GPID    (ushort)
gp_id43     DMMS_GPID    (ushort)
gp_id44     DMMS_GPID    (ushort)
gp_id45     DMMS_GPID    (ushort)
gp_id46     DMMS_GPID    (ushort)
gp_id47     DMMS_GPID    (ushort)
gp_id48     DMMS_GPID    (ushort)
gp_id49     DMMS_GPID    (ushort)
gp_id50     DMMS_GPID    (ushort)
gp_id51     DMMS_GPID    (ushort)
gp_id52     DMMS_GPID    (ushort)
gp_id53     DMMS_GPID    (ushort)
gp_id54     DMMS_GPID    (ushort)
gp_id55     DMMS_GPID    (ushort)
gp_id56     DMMS_GPID    (ushort)
gp_id57     DMMS_GPID    (ushort)
gp_id58     DMMS_GPID    (ushort)
gp_id59     DMMS_GPID    (ushort)
gp_id60     DMMS_GPID    (ushort)
gp_id61     DMMS_GPID    (ushort)
gp_id62     DMMS_GPID    (ushort)
gp_id63     DMMS_GPID    (ushort)
gp_id64     DMMS_GPID    (ushort)
gp_id65     DMMS_GPID    (ushort)
gp_id66     DMMS_GPID    (ushort)
gp_id67     DMMS_GPID    (ushort)
gp_id68     DMMS_GPID    (ushort)
gp_id69     DMMS_GPID    (ushort)
gp_id70     DMMS_GPID    (ushort)
gp_id71     DMMS_GPID    (ushort)
gp_id72     DMMS_GPID    (ushort)
gp_id73     DMMS_GPID    (ushort)
gp_id74     DMMS_GPID    (ushort)
gp_id75     DMMS_GPID    (ushort)
gp_id76     DMMS_GPID    (ushort)
gp_id77     DMMS_GPID    (ushort)
gp_id78     DMMS_GPID    (ushort)
gp_id79     DMMS_GPID    (ushort)
gp_id80     DMMS_GPID    (ushort)
gp_id81     DMMS_GPID    (ushort)
gp_id82     DMMS_GPID    (ushort)
gp_id83     DMMS_GPID    (ushort)
gp_id84     DMMS_GPID    (ushort)
```

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```
gp_id85     DMMS_GPID    (ushort)
gp_id86     DMMS_GPID    (ushort)
gp_id87     DMMS_GPID    (ushort)
gp_id88     DMMS_GPID    (ushort)
gp_id89     DMMS_GPID    (ushort)
gp_id90     DMMS_GPID    (ushort)
gp_id91     DMMS_GPID    (ushort)
gp_id92     DMMS_GPID    (ushort)
gp_id93     DMMS_GPID    (ushort)
gp_id94     DMMS_GPID    (ushort)
gp_id95     DMMS_GPID    (ushort)
gp_id96     DMMS_GPID    (ushort)
gp_id97     DMMS_GPID    (ushort)
gp_id98     DMMS_GPID    (ushort)
gp_id99     DMMS_GPID    (ushort)
gp_id100    DMMS_GPID    (ushort)
gp_id101    DMMS_GPID    (ushort)
gp_id102    DMMS_GPID    (ushort)
gp_id103    DMMS_GPID    (ushort)
gp_id104    DMMS_GPID    (ushort)
gp_id105    DMMS_GPID    (ushort)
gp_id106    DMMS_GPID    (ushort)
gp_id107    DMMS_GPID    (ushort)
gp_id108    DMMS_GPID    (ushort)
gp_id109    DMMS_GPID    (ushort)
gp_id110    DMMS_GPID    (ushort)
gp_id111    DMMS_GPID    (ushort)
gp_id112    DMMS_GPID    (ushort)
gp_id113    DMMS_GPID    (ushort)
gp_id114    DMMS_GPID    (ushort)
gp_id115    DMMS_GPID    (ushort)
gp_id116    DMMS_GPID    (ushort)
gp_id117    DMMS_GPID    (ushort)
gp_id118    DMMS_GPID    (ushort)
gp_id119    DMMS_GPID    (ushort)
gp_id120    DMMS_GPID    (ushort)
gp_id121    DMMS_GPID    (ushort)
gp_id122    DMMS_GPID    (ushort)
gp_id123    DMMS_GPID    (ushort)
gp_id124    DMMS_GPID    (ushort)
gp_id125    DMMS_GPID    (ushort)
gp_id126    DMMS_GPID    (ushort)
gp_id127    DMMS_GPID    (ushort)
gp_id128    DMMS_GPID    (ushort)
gp_id129    DMMS_GPID    (ushort)
gp_id130    DMMS_GPID    (ushort)
gp_id131    DMMS_GPID    (ushort)
gp_id132    DMMS_GPID    (ushort)
gp_id133    DMMS_GPID    (ushort)
gp_id134    DMMS_GPID    (ushort)
gp_id135    DMMS_GPID    (ushort)
gp_id136    DMMS_GPID    (ushort)
gp_id137    DMMS_GPID    (ushort)
gp_id138    DMMS_GPID    (ushort)
```

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```
gp_id139    DMMS_GPID    (ushort)
gp_id140    DMMS_GPID    (ushort)
gp_id141    DMMS_GPID    (ushort)
gp_id142    DMMS_GPID    (ushort)
gp_id143    DMMS_GPID    (ushort)
gp_id144    DMMS_GPID    (ushort)
gp_id145    DMMS_GPID    (ushort)
gp_id146    DMMS_GPID    (ushort)
gp_id147    DMMS_GPID    (ushort)
gp_id148    DMMS_GPID    (ushort)
gp_id149    DMMS_GPID    (ushort)
gp_id150    DMMS_GPID    (ushort)
gp_id151    DMMS_GPID    (ushort)
gp_id152    DMMS_GPID    (ushort)
gp_id153    DMMS_GPID    (ushort)
gp_id154    DMMS_GPID    (ushort)
gp_id155    DMMS_GPID    (ushort)
gp_id156    DMMS_GPID    (ushort)
gp_id157    DMMS_GPID    (ushort)
gp_id158    DMMS_GPID    (ushort)
gp_id159    DMMS_GPID    (ushort)
gp_id160    DMMS_GPID    (ushort)
gp_id161    DMMS_GPID    (ushort)
gp_id162    DMMS_GPID    (ushort)
gp_id163    DMMS_GPID    (ushort)
gp_id164    DMMS_GPID    (ushort)
gp_id165    DMMS_GPID    (ushort)
gp_id166    DMMS_GPID    (ushort)
gp_id167    DMMS_GPID    (ushort)
gp_id168    DMMS_GPID    (ushort)
gp_id169    DMMS_GPID    (ushort)
gp_id170    DMMS_GPID    (ushort)
gp_id171    DMMS_GPID    (ushort)
gp_id172    DMMS_GPID    (ushort)
gp_id173    DMMS_GPID    (ushort)
gp_id174    DMMS_GPID    (ushort)
gp_id175    DMMS_GPID    (ushort)
gp_id176    DMMS_GPID    (ushort)
gp_id177    DMMS_GPID    (ushort)
gp_id178    DMMS_GPID    (ushort)
gp_id179    DMMS_GPID    (ushort)
gp_id180    DMMS_GPID    (ushort)
gp_id181    DMMS_GPID    (ushort)
gp_id182    DMMS_GPID    (ushort)
gp_id183    DMMS_GPID    (ushort)
gp_id184    DMMS_GPID    (ushort)
gp_id185    DMMS_GPID    (ushort)
gp_id186    DMMS_GPID    (ushort)
gp_id187    DMMS_GPID    (ushort)
gp_id188    DMMS_GPID    (ushort)
gp_id189    DMMS_GPID    (ushort)
gp_id190    DMMS_GPID    (ushort)
gp_id191    DMMS_GPID    (ushort)
gp_id192    DMMS_GPID    (ushort)
```

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```
    gp_id193    DMMS_GPID    (ushort)
    gp_id194    DMMS_GPID    (ushort)
    gp_id195    DMMS_GPID    (ushort)
    gp_id196    DMMS_GPID    (ushort)
    gp_id197    DMMS_GPID    (ushort)
    gp_id198    DMMS_GPID    (ushort)
    gp_id199    DMMS_GPID    (ushort)
    gp_id200    DMMS_GPID    (ushort)
        User, Compacted and Stored Tuple Layout MS_ATT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |               |                               |
 0 |     im_id     |***************|           gps_in_use          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |             gp_id1            |             gp_id2            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |             gp_id3            |             gp_id4            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |             gp_id5            |             gp_id6            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |             gp_id7            |             gp_id8            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |             gp_id9            |            gp_id10            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
24 |            gp_id11            |            gp_id12            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
28 |            gp_id13            |            gp_id14            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
32 |            gp_id15            |            gp_id16            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
36 |            gp_id17            |            gp_id18            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
40 |            gp_id19            |            gp_id20            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
44 |            gp_id21            |            gp_id22            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
48 |            gp_id23            |            gp_id24            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
52 |            gp_id25            |            gp_id26            |
   |---------------+---------------+---------------+---------------|
```

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| | | | |
|---|---|---|---|
| 56 | gp_id27 | gp_id28 | |
| 60 | gp_id29 | gp_id30 | |
| 64 | gp_id31 | gp_id32 | |
| 68 | gp_id33 | gp_id34 | |
| 72 | gp_id35 | gp_id36 | |
| 76 | gp_id37 | gp_id38 | |
| 80 | gp_id39 | gp_id40 | |
| 84 | gp_id41 | gp_id42 | |
| 88 | gp_id43 | gp_id44 | |
| 92 | gp_id45 | gp_id46 | |
| 96 | gp_id47 | gp_id48 | |
| 100 | gp_id49 | gp_id50 | |
| 104 | gp_id51 | gp_id52 | |
| 108 | gp_id53 | gp_id54 | |
| 112 | gp_id55 | gp_id56 | |
| 116 | gp_id57 | gp_id58 | |
| 120 | gp_id59 | gp_id60 | |
| 124 | gp_id61 | gp_id62 | |

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| | | |
|---|---|---|
| 128 | gp_id63 | gp_id64 |
| 132 | gp_id65 | gp_id66 |
| 136 | gp_id67 | gp_id68 |
| 140 | gp_id69 | gp_id70 |
| 144 | gp_id71 | gp_id72 |
| 148 | gp_id73 | gp_id74 |
| 152 | gp_id75 | gp_id76 |
| 156 | gp_id77 | gp_id78 |
| 160 | gp_id79 | gp_id80 |
| 164 | gp_id81 | gp_id82 |
| 168 | gp_id83 | gp_id84 |
| 172 | gp_id85 | gp_id86 |
| 176 | gp_id87 | gp_id88 |
| 180 | gp_id89 | gp_id90 |
| 184 | gp_id91 | gp_id92 |
| 188 | gp_id93 | gp_id94 |
| 192 | gp_id95 | gp_id96 |
| 196 | gp_id97 | gp_id98 |

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| | | |
|---|---|---|
| 200 | gp_id99 | gp_id100 |
| 204 | gp_id101 | gp_id102 |
| 208 | gp_id103 | gp_id104 |
| 212 | gp_id105 | gp_id106 |
| 216 | gp_id107 | gp_id108 |
| 220 | gp_id109 | gp_id110 |
| 224 | gp_id111 | gp_id112 |
| 228 | gp_id113 | gp_id114 |
| 232 | gp_id115 | gp_id116 |
| 236 | gp_id117 | gp_id118 |
| 240 | gp_id119 | gp_id120 |
| 244 | gp_id121 | gp_id122 |
| 248 | gp_id123 | gp_id124 |
| 252 | gp_id125 | gp_id126 |
| 256 | gp_id127 | gp_id128 |
| 260 | gp_id129 | gp_id130 |
| 264 | gp_id131 | gp_id132 |
| 268 | gp_id133 | gp_id134 |

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| | | | |
|---|---|---|---|
| 272 | gp_id135 | gp_id136 | |
| 276 | gp_id137 | gp_id138 | |
| 280 | gp_id139 | gp_id140 | |
| 284 | gp_id141 | gp_id142 | |
| 288 | gp_id143 | gp_id144 | |
| 292 | gp_id145 | gp_id146 | |
| 296 | gp_id147 | gp_id148 | |
| 300 | gp_id149 | gp_id150 | |
| 304 | gp_id151 | gp_id152 | |
| 308 | gp_id153 | gp_id154 | |
| 312 | gp_id155 | gp_id156 | |
| 316 | gp_id157 | gp_id158 | |
| 320 | gp_id159 | gp_id160 | |
| 324 | gp_id161 | gp_id162 | |
| 328 | gp_id163 | gp_id164 | |
| 332 | gp_id165 | gp_id166 | |
| 336 | gp_id167 | gp_id168 | |
| 340 | gp_id169 | gp_id170 | |

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```
    |                               |                               |
344 |            gp_id171           |            gp_id172           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
348 |            gp_id173           |            gp_id174           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
352 |            gp_id175           |            gp_id176           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
356 |            gp_id177           |            gp_id178           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
360 |            gp_id179           |            gp_id180           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
364 |            gp_id181           |            gp_id182           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
368 |            gp_id183           |            gp_id184           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
372 |            gp_id185           |            gp_id186           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
376 |            gp_id187           |            gp_id188           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
380 |            gp_id189           |            gp_id190           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
384 |            gp_id191           |            gp_id192           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
388 |            gp_id193           |            gp_id194           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
392 |            gp_id195           |            gp_id196           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
396 |            gp_id197           |            gp_id198           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
400 |            gp_id199           |            gp_id200           |
    |---------------+---------------+---------------+---------------|
       ( 404 bytes )
domain alMS_ATT   struct  (3 sub-attributes)
         im_id       .1.fake      (ushort)
         gps_in_use  unsigned short (ushort)
         grps        .2.fake      (array [ 200 ] of unsigned short )

         Structure Layout      alMS_ATT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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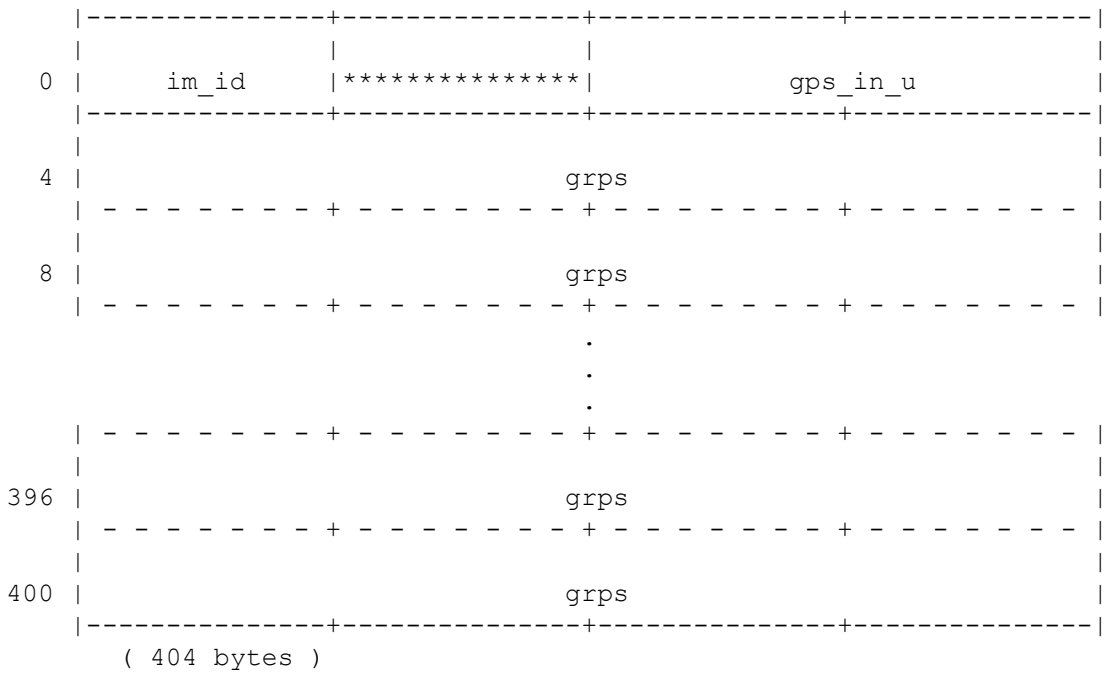


## 4. Population Rules for RLms_att

**Relation Description** Measurements for attendant groups.

**Attribute: im_id**

**Fullname:** interface module identifier

**Attribute Description** Identifies an interface module. Only module 0 applies.

**Attribute: gps_in_use**

**Fullname:** groups in use

**Attribute Description** Indicates the number of groups currently identified within the specified IM number tuple.

**Attribute: gp_id[*]**

**Fullname:** group identifier

**Attribute Description** Indicates a specified group identification number which is being measured. gp_id1 thru gp_id200 will contain either a 0 (default) or a valid attendant group id. The groupid must be unique, that is, it may appear in at most one gp_id{1-200} field in any one tuple.

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# MS_CFT

## 1. Description

Measurements for constructed feature groups.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | EADAS |
| relation type | DBSTATIC |
| head table size | 512 |
| data page size | 512 |
| page level | 1 |
| l1 length of subkey1 | 1 |
| p1 position of subkey1 | 7 |
| ignore key bits | 0-6 |
| permutation type | un_perm |

## 3. Field Layout

```
MS_CFT      relid = 505   DBSTATIC   DBACC_CIND  DBPRAM    LP      EADAS
     im_id        DMMODULE     (ushort: 8)  <--- key
     gps_in_use   DMMCUSECNT   (ushort)
     gp_id1       DMMS_GPID    (ushort)
     gp_id2       DMMS_GPID    (ushort)
     gp_id3       DMMS_GPID    (ushort)
     gp_id4       DMMS_GPID    (ushort)
     gp_id5       DMMS_GPID    (ushort)
     gp_id6       DMMS_GPID    (ushort)
     gp_id7       DMMS_GPID    (ushort)
     gp_id8       DMMS_GPID    (ushort)
     gp_id9       DMMS_GPID    (ushort)
     gp_id10      DMMS_GPID    (ushort)
     gp_id11      DMMS_GPID    (ushort)
     gp_id12      DMMS_GPID    (ushort)
     gp_id13      DMMS_GPID    (ushort)
     gp_id14      DMMS_GPID    (ushort)
     gp_id15      DMMS_GPID    (ushort)
     gp_id16      DMMS_GPID    (ushort)
     gp_id17      DMMS_GPID    (ushort)
     gp_id18      DMMS_GPID    (ushort)
     gp_id19      DMMS_GPID    (ushort)
     gp_id20      DMMS_GPID    (ushort)
     gp_id21      DMMS_GPID    (ushort)
     gp_id22      DMMS_GPID    (ushort)
     gp_id23      DMMS_GPID    (ushort)
     gp_id24      DMMS_GPID    (ushort)
     gp_id25      DMMS_GPID    (ushort)
     gp_id26      DMMS_GPID    (ushort)
     gp_id27      DMMS_GPID    (ushort)
     gp_id28      DMMS_GPID    (ushort)
     gp_id29      DMMS_GPID    (ushort)
     gp_id30      DMMS_GPID    (ushort)
```

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```
gp_id31     DMMS_GPID    (ushort)
gp_id32     DMMS_GPID    (ushort)
gp_id33     DMMS_GPID    (ushort)
gp_id34     DMMS_GPID    (ushort)
gp_id35     DMMS_GPID    (ushort)
gp_id36     DMMS_GPID    (ushort)
gp_id37     DMMS_GPID    (ushort)
gp_id38     DMMS_GPID    (ushort)
gp_id39     DMMS_GPID    (ushort)
gp_id40     DMMS_GPID    (ushort)
gp_id41     DMMS_GPID    (ushort)
gp_id42     DMMS_GPID    (ushort)
gp_id43     DMMS_GPID    (ushort)
gp_id44     DMMS_GPID    (ushort)
gp_id45     DMMS_GPID    (ushort)
gp_id46     DMMS_GPID    (ushort)
gp_id47     DMMS_GPID    (ushort)
gp_id48     DMMS_GPID    (ushort)
gp_id49     DMMS_GPID    (ushort)
gp_id50     DMMS_GPID    (ushort)
gp_id51     DMMS_GPID    (ushort)
gp_id52     DMMS_GPID    (ushort)
gp_id53     DMMS_GPID    (ushort)
gp_id54     DMMS_GPID    (ushort)
gp_id55     DMMS_GPID    (ushort)
gp_id56     DMMS_GPID    (ushort)
gp_id57     DMMS_GPID    (ushort)
gp_id58     DMMS_GPID    (ushort)
gp_id59     DMMS_GPID    (ushort)
gp_id60     DMMS_GPID    (ushort)
gp_id61     DMMS_GPID    (ushort)
gp_id62     DMMS_GPID    (ushort)
gp_id63     DMMS_GPID    (ushort)
gp_id64     DMMS_GPID    (ushort)
gp_id65     DMMS_GPID    (ushort)
gp_id66     DMMS_GPID    (ushort)
gp_id67     DMMS_GPID    (ushort)
gp_id68     DMMS_GPID    (ushort)
gp_id69     DMMS_GPID    (ushort)
gp_id70     DMMS_GPID    (ushort)
gp_id71     DMMS_GPID    (ushort)
gp_id72     DMMS_GPID    (ushort)
gp_id73     DMMS_GPID    (ushort)
gp_id74     DMMS_GPID    (ushort)
gp_id75     DMMS_GPID    (ushort)
gp_id76     DMMS_GPID    (ushort)
gp_id77     DMMS_GPID    (ushort)
gp_id78     DMMS_GPID    (ushort)
gp_id79     DMMS_GPID    (ushort)
gp_id80     DMMS_GPID    (ushort)
gp_id81     DMMS_GPID    (ushort)
gp_id82     DMMS_GPID    (ushort)
gp_id83     DMMS_GPID    (ushort)
gp_id84     DMMS_GPID    (ushort)
```

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```
    gp_id85     DMMS_GPID    (ushort)
    gp_id86     DMMS_GPID    (ushort)
    gp_id87     DMMS_GPID    (ushort)
    gp_id88     DMMS_GPID    (ushort)
    gp_id89     DMMS_GPID    (ushort)
    gp_id90     DMMS_GPID    (ushort)
    gp_id91     DMMS_GPID    (ushort)
    gp_id92     DMMS_GPID    (ushort)
    gp_id93     DMMS_GPID    (ushort)
    gp_id94     DMMS_GPID    (ushort)
    gp_id95     DMMS_GPID    (ushort)
    gp_id96     DMMS_GPID    (ushort)
    gp_id97     DMMS_GPID    (ushort)
    gp_id98     DMMS_GPID    (ushort)
    gp_id99     DMMS_GPID    (ushort)
    gp_id100    DMMS_GPID    (ushort)
        User, Compacted and Stored Tuple Layout MS_CFT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |               |                               |
 0 |     im_id     |***************|           gps_in_use          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |             gp_id1            |              gp_id2           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |             gp_id3            |              gp_id4           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |             gp_id5            |              gp_id6           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |             gp_id7            |              gp_id8           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |             gp_id9            |             gp_id10           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
24 |            gp_id11            |             gp_id12           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
28 |            gp_id13            |             gp_id14           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
32 |            gp_id15            |             gp_id16           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
36 |            gp_id17            |             gp_id18           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
40 |            gp_id19            |             gp_id20           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
```

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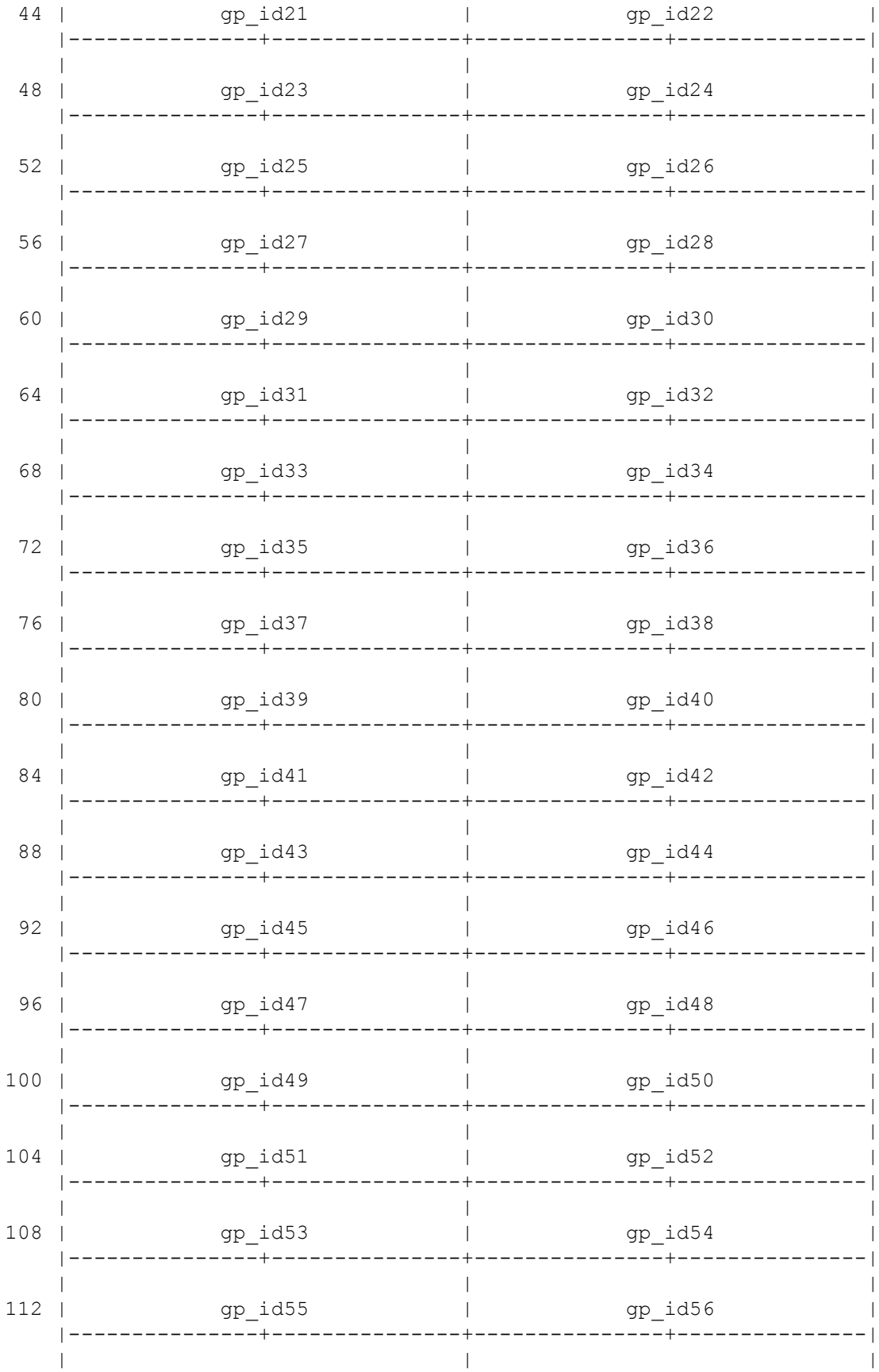


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| | | |
|---|---|---|
| 116 | gp_id57 | gp_id58 |
| 120 | gp_id59 | gp_id60 |
| 124 | gp_id61 | gp_id62 |
| 128 | gp_id63 | gp_id64 |
| 132 | gp_id65 | gp_id66 |
| 136 | gp_id67 | gp_id68 |
| 140 | gp_id69 | gp_id70 |
| 144 | gp_id71 | gp_id72 |
| 148 | gp_id73 | gp_id74 |
| 152 | gp_id75 | gp_id76 |
| 156 | gp_id77 | gp_id78 |
| 160 | gp_id79 | gp_id80 |
| 164 | gp_id81 | gp_id82 |
| 168 | gp_id83 | gp_id84 |
| 172 | gp_id85 | gp_id86 |
| 176 | gp_id87 | gp_id88 |
| 180 | gp_id89 | gp_id90 |
| 184 | gp_id91 | gp_id92 |

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```
188 |            gp_id93            |            gp_id94            |
    |-------------------------------+-------------------------------|
    |                               |                               |
192 |            gp_id95            |            gp_id96            |
    |-------------------------------+-------------------------------|
    |                               |                               |
196 |            gp_id97            |            gp_id98            |
    |-------------------------------+-------------------------------|
    |                               |                               |
200 |            gp_id99            |            gp_id100           |
    |-------------------------------+-------------------------------|
       ( 204 bytes )
domain alMS_CFT   struct  (3 sub-attributes)
         im_id       .1.fake      (ushort)
         gps_in_use  unsigned short (ushort)
         grps        .2.fake      (array [ 100 ] of unsigned short )

         Structure Layout      alMS_CFT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |     im_id     |***************|            gps_in_u           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             grps                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             grps                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                    .
                                    .
                                    .
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
196 |                             grps                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
200 |                             grps                              |
    |-------------------------------+-------------------------------|
       ( 204 bytes )
```

## 4. Population Rules for RLms_cft

**Relation Description:** Measurements for BRCS constructed feature groups.

**Attribute: im_id**

**Fullname:** interface module identifier

**Attribute Description** Interface module identifier. Module 0 only applies.

**Attribute: gps_in_use**

**Fullname:** groups in use

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**Attribute Description** Indicates the number of groups currently identified within the specified IM number tuple.

**Attribute: gp_id[*]**

**Fullname:** group identification number

**Attribute Description** Indicates a specified group identification number which is being measured. gp_id fields must be a valid fid or 0. If gp_id field is populated, verify the existence of the fid in FACNAME. Note: gp_id field is Decimal where as FACNAME fid is Hex. The facid must be unique, that is, it may appear in at most one gp_id{1-100} field in any one tuple.

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# MS_IDP

## 1. Description

Measurements for IDP Groups.
This relation identifies which IDP groups are being measured on each given module.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_CIND |
| memory type | DBDISK |
| distribution | DO |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 2048 |
| page level | 2 |
| permutation type | un_perm |

## 3. Field Layout

```
MS_IDP      relid = 506   DBSTATIC   DBACC_CIND  DBDISK    DO      DDBM
     im_id        DMMODULE     (ushort: 8)     <--- key
     gps_in_use   DMMCUSECNT   (ushort)
     gp_id1       DMMS_GPID    (ushort)
     gp_id2       DMMS_GPID    (ushort)
     gp_id3       DMMS_GPID    (ushort)
     gp_id4       DMMS_GPID    (ushort)
     gp_id5       DMMS_GPID    (ushort)
     gp_id6       DMMS_GPID    (ushort)
     gp_id7       DMMS_GPID    (ushort)
     gp_id8       DMMS_GPID    (ushort)
     gp_id9       DMMS_GPID    (ushort)
     gp_id10      DMMS_GPID    (ushort)
     gp_id11      DMMS_GPID    (ushort)
     gp_id12      DMMS_GPID    (ushort)
     gp_id13      DMMS_GPID    (ushort)
     gp_id14      DMMS_GPID    (ushort)
     gp_id15      DMMS_GPID    (ushort)
     gp_id16      DMMS_GPID    (ushort)
     gp_id17      DMMS_GPID    (ushort)
     gp_id18      DMMS_GPID    (ushort)
     gp_id19      DMMS_GPID    (ushort)
     gp_id20      DMMS_GPID    (ushort)
     gp_id21      DMMS_GPID    (ushort)
     gp_id22      DMMS_GPID    (ushort)
     gp_id23      DMMS_GPID    (ushort)
     gp_id24      DMMS_GPID    (ushort)
     gp_id25      DMMS_GPID    (ushort)
     gp_id26      DMMS_GPID    (ushort)
     gp_id27      DMMS_GPID    (ushort)
     gp_id28      DMMS_GPID    (ushort)
     gp_id29      DMMS_GPID    (ushort)
     gp_id30      DMMS_GPID    (ushort)
     gp_id31      DMMS_GPID    (ushort)
     gp_id32      DMMS_GPID    (ushort)
```

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```
gp_id33     DMMS_GPID    (ushort)
gp_id34     DMMS_GPID    (ushort)
gp_id35     DMMS_GPID    (ushort)
gp_id36     DMMS_GPID    (ushort)
gp_id37     DMMS_GPID    (ushort)
gp_id38     DMMS_GPID    (ushort)
gp_id39     DMMS_GPID    (ushort)
gp_id40     DMMS_GPID    (ushort)
gp_id41     DMMS_GPID    (ushort)
gp_id42     DMMS_GPID    (ushort)
gp_id43     DMMS_GPID    (ushort)
gp_id44     DMMS_GPID    (ushort)
gp_id45     DMMS_GPID    (ushort)
gp_id46     DMMS_GPID    (ushort)
gp_id47     DMMS_GPID    (ushort)
gp_id48     DMMS_GPID    (ushort)
gp_id49     DMMS_GPID    (ushort)
gp_id50     DMMS_GPID    (ushort)
gp_id51     DMMS_GPID    (ushort)
gp_id52     DMMS_GPID    (ushort)
gp_id53     DMMS_GPID    (ushort)
gp_id54     DMMS_GPID    (ushort)
gp_id55     DMMS_GPID    (ushort)
gp_id56     DMMS_GPID    (ushort)
gp_id57     DMMS_GPID    (ushort)
gp_id58     DMMS_GPID    (ushort)
gp_id59     DMMS_GPID    (ushort)
gp_id60     DMMS_GPID    (ushort)
gp_id61     DMMS_GPID    (ushort)
gp_id62     DMMS_GPID    (ushort)
gp_id63     DMMS_GPID    (ushort)
gp_id64     DMMS_GPID    (ushort)
gp_id65     DMMS_GPID    (ushort)
gp_id66     DMMS_GPID    (ushort)
gp_id67     DMMS_GPID    (ushort)
gp_id68     DMMS_GPID    (ushort)
gp_id69     DMMS_GPID    (ushort)
gp_id70     DMMS_GPID    (ushort)
gp_id71     DMMS_GPID    (ushort)
gp_id72     DMMS_GPID    (ushort)
gp_id73     DMMS_GPID    (ushort)
gp_id74     DMMS_GPID    (ushort)
gp_id75     DMMS_GPID    (ushort)
gp_id76     DMMS_GPID    (ushort)
gp_id77     DMMS_GPID    (ushort)
gp_id78     DMMS_GPID    (ushort)
gp_id79     DMMS_GPID    (ushort)
gp_id80     DMMS_GPID    (ushort)
gp_id81     DMMS_GPID    (ushort)
gp_id82     DMMS_GPID    (ushort)
gp_id83     DMMS_GPID    (ushort)
gp_id84     DMMS_GPID    (ushort)
gp_id85     DMMS_GPID    (ushort)
gp_id86     DMMS_GPID    (ushort)
```

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```
gp_id87     DMMS_GPID    (ushort)
gp_id88     DMMS_GPID    (ushort)
gp_id89     DMMS_GPID    (ushort)
gp_id90     DMMS_GPID    (ushort)
gp_id91     DMMS_GPID    (ushort)
gp_id92     DMMS_GPID    (ushort)
gp_id93     DMMS_GPID    (ushort)
gp_id94     DMMS_GPID    (ushort)
gp_id95     DMMS_GPID    (ushort)
gp_id96     DMMS_GPID    (ushort)
gp_id97     DMMS_GPID    (ushort)
gp_id98     DMMS_GPID    (ushort)
gp_id99     DMMS_GPID    (ushort)
gp_id100    DMMS_GPID    (ushort)
gp_id101    DMMS_GPID    (ushort)
gp_id102    DMMS_GPID    (ushort)
gp_id103    DMMS_GPID    (ushort)
gp_id104    DMMS_GPID    (ushort)
gp_id105    DMMS_GPID    (ushort)
gp_id106    DMMS_GPID    (ushort)
gp_id107    DMMS_GPID    (ushort)
gp_id108    DMMS_GPID    (ushort)
gp_id109    DMMS_GPID    (ushort)
gp_id110    DMMS_GPID    (ushort)
gp_id111    DMMS_GPID    (ushort)
gp_id112    DMMS_GPID    (ushort)
gp_id113    DMMS_GPID    (ushort)
gp_id114    DMMS_GPID    (ushort)
gp_id115    DMMS_GPID    (ushort)
gp_id116    DMMS_GPID    (ushort)
gp_id117    DMMS_GPID    (ushort)
gp_id118    DMMS_GPID    (ushort)
gp_id119    DMMS_GPID    (ushort)
gp_id120    DMMS_GPID    (ushort)
gp_id121    DMMS_GPID    (ushort)
gp_id122    DMMS_GPID    (ushort)
gp_id123    DMMS_GPID    (ushort)
gp_id124    DMMS_GPID    (ushort)
gp_id125    DMMS_GPID    (ushort)
gp_id126    DMMS_GPID    (ushort)
gp_id127    DMMS_GPID    (ushort)
gp_id128    DMMS_GPID    (ushort)
gp_id129    DMMS_GPID    (ushort)
gp_id130    DMMS_GPID    (ushort)
gp_id131    DMMS_GPID    (ushort)
gp_id132    DMMS_GPID    (ushort)
gp_id133    DMMS_GPID    (ushort)
gp_id134    DMMS_GPID    (ushort)
gp_id135    DMMS_GPID    (ushort)
gp_id136    DMMS_GPID    (ushort)
gp_id137    DMMS_GPID    (ushort)
gp_id138    DMMS_GPID    (ushort)
gp_id139    DMMS_GPID    (ushort)
gp_id140    DMMS_GPID    (ushort)
```

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```
     gp_id141    DMMS_GPID    (ushort)
     gp_id142    DMMS_GPID    (ushort)
     gp_id143    DMMS_GPID    (ushort)
     gp_id144    DMMS_GPID    (ushort)
     gp_id145    DMMS_GPID    (ushort)
     gp_id146    DMMS_GPID    (ushort)
     gp_id147    DMMS_GPID    (ushort)
     gp_id148    DMMS_GPID    (ushort)
     gp_id149    DMMS_GPID    (ushort)
     gp_id150    DMMS_GPID    (ushort)
         User, Compacted and Stored Tuple Layout MS_IDP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |     im_id     |***************|           gps_in_use          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             gp_id1            |              gp_id2           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |             gp_id3            |              gp_id4           |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                               |                               |
296 |            gp_id147           |             gp_id148          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
300 |            gp_id149           |             gp_id150          |
    |---------------+---------------+---------------+---------------|
       ( 304 bytes )
domain alMS_IDP   struct  (3 sub-attributes)
        im_id       .1.fake      (ushort)
        gps_in_use  unsigned short (ushort)
        grps        .2.fake      (array [ 150 ] of unsigned short )

         Structure Layout      alMS_IDP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |     im_id     |***************|           gps_in_use          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                               grps                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                               grps                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                    .
                                    .
```

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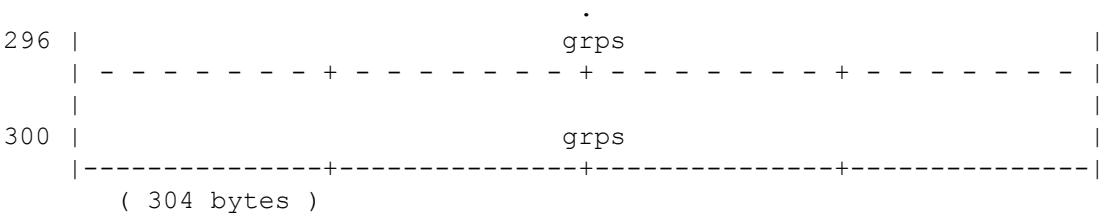


## 4. Population Rules for RLms_idp

**Relation Description:** Measurements for IDP Groups

This relation identifies which IDP groups are being measured on each given module.

**Attribute: im_id**

**Fullname:** Interface Module Identifier

**Attribute Description** Identifies an interface module. Dependencies: Require module 0 tuple and one tuple for each SM. Tuples must be populated.

**Attribute: gps_in_use**

**Fullname:** Groups in Use

**Attribute Description** Indicates the number of groups currently identified within the specified IM number tuple.

**Attribute: gp_id[*]**

**Fullname:** Group Identifier

**Attribute Description** Indicates a specified group identification number which is being measured. gp_id fields must be valid idp groupid or 0. Fields must be populated.

Dependencies: If a gp_id number exists in im_id=0 tuple, then said ID can only appear in the same field of a tuple with key <> 0 that is, if gp_id 7 = X of module 0 tuple then for all tuples where im_id <> 0 gp_id 7 can only be X or 0.
The groupid must be unique, that is, it may appear in at most one gp_id{1-150} field in any one tuple.

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# MS_LUSDY

## 1. Description

Identifies SM and LUs (ISLUs) allowed for study.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10 |
| expected tuples in relation | 5 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | LP |
| application | EADAS |
| relation type | DBSTATIC |
| trigger function | MSlusd_trig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | unperm |

## 3. Field Layout

```
MS_LUSDY    relid = 1487  DBSTATIC   DBACC_LIN   DBPRAM    LP      EADAS
 (a) lu_type      DMMS_LUTYP   (enum: 2)  <--- key
 (b) studygrp     DMUNS3       (ushort: 3)  <--- key
     ids0         DMMS_SMLU    (struct)
         smid0        DMMODULE     (ushort: 8)
         luid0        DMUCHAR      (uchar)
         smid50       DMMODULE     (ushort: 8)
         luid50       DMUCHAR      (uchar)
     ids1         DMMS_SMLU    (struct)
         smid0        DMMODULE     (ushort: 8)
         luid0        DMUCHAR      (uchar)
         smid50       DMMODULE     (ushort: 8)
         luid50       DMUCHAR      (uchar)
     ids2         DMMS_SMLU    (struct)
         smid0        DMMODULE     (ushort: 8)
         luid0        DMUCHAR      (uchar)
         smid50       DMMODULE     (ushort: 8)
         luid50       DMUCHAR      (uchar)
     ids3         DMMS_SMLU    (struct)
         smid0        DMMODULE     (ushort: 8)
         luid0        DMUCHAR      (uchar)
         smid50       DMMODULE     (ushort: 8)
         luid50       DMUCHAR      (uchar)
     ids4         DMMS_SMLU    (struct)
         smid0        DMMODULE     (ushort: 8)
         luid0        DMUCHAR      (uchar)
         smid50       DMMODULE     (ushort: 8)
         luid50       DMUCHAR      (uchar)
     ids5         DMMS_SMLU    (struct)
         smid0        DMMODULE     (ushort: 8)
         luid0        DMUCHAR      (uchar)
         smid50       DMMODULE     (ushort: 8)
         luid50       DMUCHAR      (uchar)
```

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```
ids6        DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids7        DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids8        DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids9        DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids10       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids11       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids12       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids13       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids14       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids15       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids16       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
```

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```
    luid50      DMUCHAR      (uchar)
ids17       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids18       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids19       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids20       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids21       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids22       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids23       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids24       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids25       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids26       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids27       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
```

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```
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids28       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids29       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids30       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids31       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids32       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids33       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids34       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids35       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids36       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids37       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids38       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
```

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```
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids39       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids40       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids41       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids42       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids43       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids44       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids45       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids46       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids47       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids48       DMMS_SMLU    (struct)
    smid0       DMMODULE     (ushort: 8)
    luid0       DMUCHAR      (uchar)
    smid50      DMMODULE     (ushort: 8)
    luid50      DMUCHAR      (uchar)
ids49       DMMS_SMLU    (struct)
```

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```
        smid0       DMMODULE     (ushort: 8)
        luid0       DMUCHAR      (uchar)
        smid50      DMMODULE     (ushort: 8)
        luid50      DMUCHAR      (uchar)
        User, Compacted and Stored Tuple Layout   MS_LUSDY
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |   |     |                                                     |
 0 | a |  b  |*****************************************************|
   |===============+============  ids0 ============+===============|
   |               |               |               |               |
 4 |     smid0     |     luid0     |     smid50    |     luid50    |
   |===============+============  ids1 ============+===============|
   |               |               |               |               |
 8 |     smid0     |     luid0     |     smid50    |     luid50    |
   |===============+============  ids2 ============+===============|
   |               |               |               |               |
12 |     smid0     |     luid0     |     smid50    |     luid50    |
   |===============+============  ids3 ============+===============|
   |               |               |               |               |
16 |     smid0     |     luid0     |     smid50    |     luid50    |
   |===============+============  ids4 ============+===============|
   |               |               |               |               |
20 |     smid0     |     luid0     |     smid50    |     luid50    |
   |===============+============  ids5 ============+===============|
   |               |               |               |               |
24 |     smid0     |     luid0     |     smid50    |     luid50    |
   |===============+============  ids6 ============+===============|
   |               |               |               |               |
28 |     smid0     |     luid0     |     smid50    |     luid50    |
   |===============+============  ids7 ============+===============|
   |               |               |               |               |
32 |     smid0     |     luid0     |     smid50    |     luid50    |
   |===============+============  ids8 ============+===============|
   |               |               |               |               |
36 |     smid0     |     luid0     |     smid50    |     luid50    |
   |===============+============  ids9 ============+===============|
   |               |               |               |               |
40 |     smid0     |     luid0     |     smid50    |     luid50    |
   |===============+============ ids10 ============+===============|
   |               |               |               |               |
44 |     smid0     |     luid0     |     smid50    |     luid50    |
   |===============+============ ids11 ============+===============|
   |               |               |               |               |
48 |     smid0     |     luid0     |     smid50    |     luid50    |
   |===============+============ ids12 ============+===============|
   |               |               |               |               |
52 |     smid0     |     luid0     |     smid50    |     luid50    |
   |===============+============ ids13 ============+===============|
   |               |               |               |               |
56 |     smid0     |     luid0     |     smid50    |     luid50    |
   |===============+============ ids14 ============+===============|
   |               |               |               |               |
```

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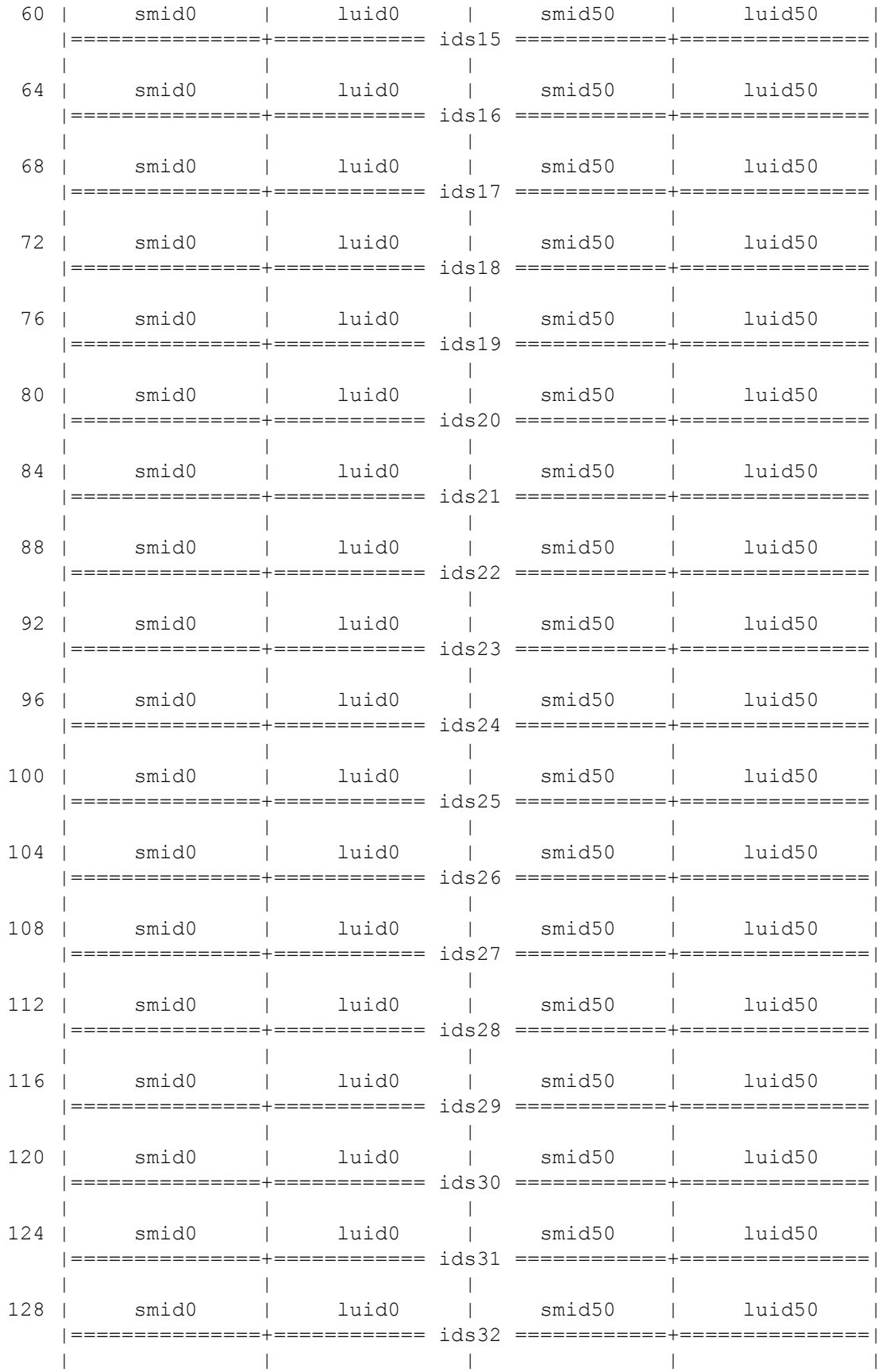


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```
132 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+============ ids33 ============+===============|
    |               |               |               |               |
136 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+============ ids34 ============+===============|
    |               |               |               |               |
140 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+============ ids35 ============+===============|
    |               |               |               |               |
144 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+============ ids36 ============+===============|
    |               |               |               |               |
148 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+============ ids37 ============+===============|
    |               |               |               |               |
152 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+============ ids38 ============+===============|
    |               |               |               |               |
156 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+============ ids39 ============+===============|
    |               |               |               |               |
160 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+============ ids40 ============+===============|
    |               |               |               |               |
164 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+============ ids41 ============+===============|
    |               |               |               |               |
168 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+============ ids42 ============+===============|
    |               |               |               |               |
172 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+============ ids43 ============+===============|
    |               |               |               |               |
176 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+============ ids44 ============+===============|
    |               |               |               |               |
180 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+============ ids45 ============+===============|
    |               |               |               |               |
184 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+============ ids46 ============+===============|
    |               |               |               |               |
188 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+============ ids47 ============+===============|
    |               |               |               |               |
192 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+============ ids48 ============+===============|
    |               |               |               |               |
196 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+============ ids49 ============+===============|
    |               |               |               |               |
200 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+===============+===============+===============|
       ( 204 bytes )
```

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```
domain alMS_LUSDY   struct  (3 sub-attributes)
 (a)     lu_type     .0fake       (enum)
 (b)     studygrp    .3.fake      (ushort: 3)
         ids         .4.fake      (array [ 50 ] of .1fake )
             smid0       .0.fake      (ushort)
             luid0       unsigned char (uchar)
             smid50      .1.fake      (ushort)
             luid50      unsigned char (uchar)

         Structure Layout      alMS_LUSDY
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |   |     |                                                     |
  0 | a |  b  |*****************************************************|
    |===============+===========  ids[0] ===========+===============|
    |               |               |               |               |
  4 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+===========  ids[1] ===========+===============|
    |               |               |               |               |
  8 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+===========  ids[2] ===========+===============|
    |               |               |               |               |
 12 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+===========  ids[3] ===========+===============|
    |               |               |               |               |
 16 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+===========  ids[4] ===========+===============|
    |               |               |               |               |
 20 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+===========  ids[5] ===========+===============|
    |               |               |               |               |
 24 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+===========  ids[6] ===========+===============|
    |               |               |               |               |
 28 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+===========  ids[7] ===========+===============|
    |               |               |               |               |
 32 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+===========  ids[8] ===========+===============|
    |               |               |               |               |
 36 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+===========  ids[9] ===========+===============|
    |               |               |               |               |
 40 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+=========== ids[10] ===========+===============|
    |               |               |               |               |
 44 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+=========== ids[11] ===========+===============|
    |               |               |               |               |
 48 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+=========== ids[12] ===========+===============|
    |               |               |               |               |
 52 |     smid0     |     luid0     |     smid50    |     luid50    |
```

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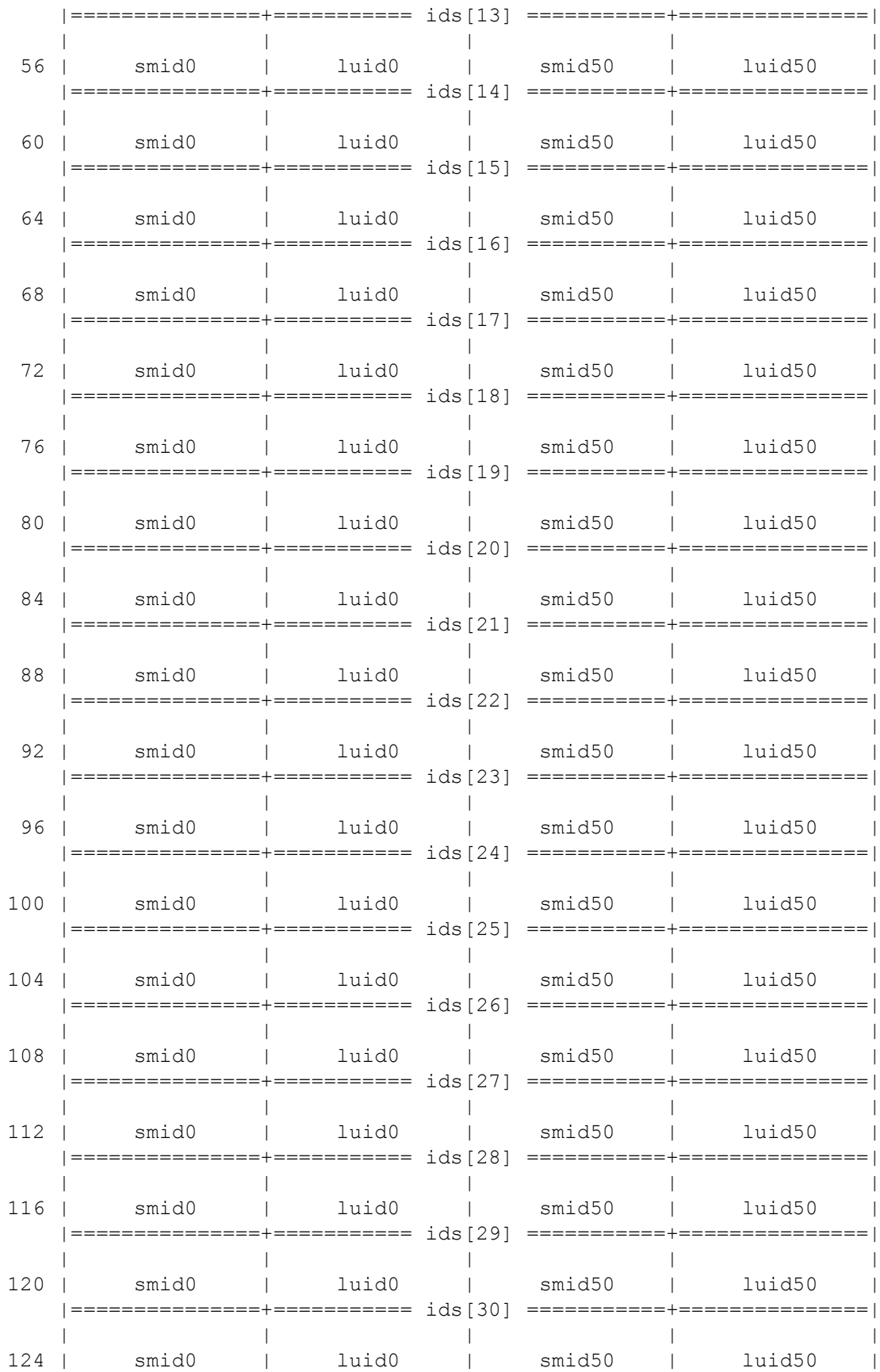
ids[13]
ids[14]
ids[15]
ids[16]
ids[17]
ids[18]
ids[19]
ids[20]
ids[21]
ids[22]
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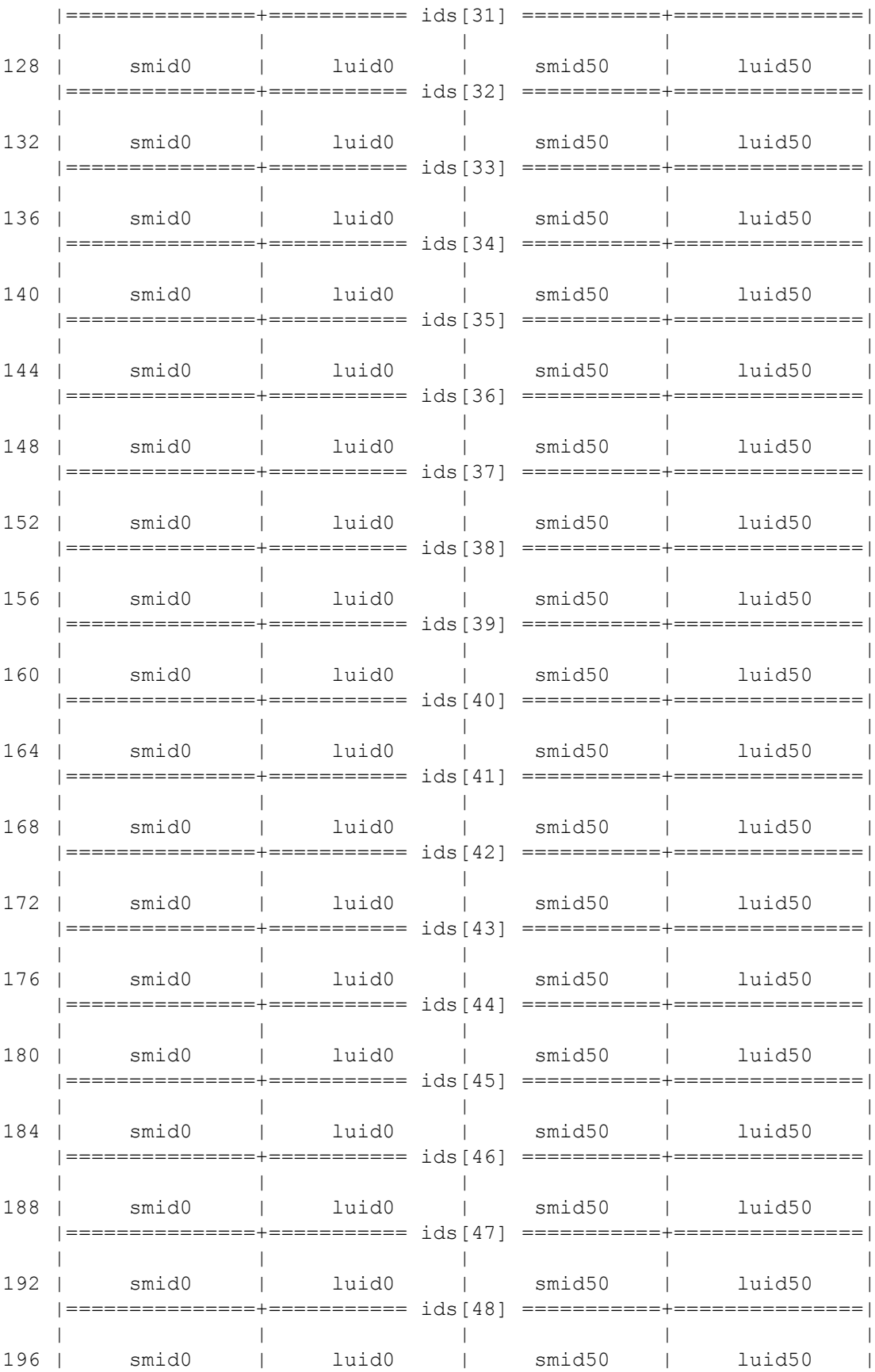
ids[24]
ids[25]
ids[26]
ids[27]
ids[28]
ids[29]
ids[30]
56
60
64
68
72
76
80
84
88
92
96
100
104
108
112
116
120
124
smid0
luid0
smid50
luid50

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```
    |===============+========== ids[49] ==========+===============|
    |               |               |               |               |
200 |     smid0     |     luid0     |     smid50    |     luid50    |
    |===============+===============+===============+===============|
       ( 204 bytes )
```

## 4. Population Rules for RLms_lusdy

**Relation Description** Measurements for switch groups (SG) and line group controllers (LGC).

Relation for SG and LGC measurements. This relation identifies the SMs and LUs ((R)ISLUs) enabled for measurements generation by the switch personnel. Up to 100 ids can be allowed per study group (up to 5 study groups). Measurements will be provided on all SGs (LGCs) on the given SM/LU ((R)ISLU).

**Attribute: lu_type**

**Fullname:** Line Unit Type

**Attribute Description** This field indicates the type of line unit (selectors LU or ISLU) of this study group. If the line unit type selected is LU, all LU identifiers entered the must be of the type LU1, LU2, LU3 and LU4 If the line unit type selected is ISLU, all LU identifiers must be ISLUs, ISLU2s or RISLUs. Line Unit types LU1, LU2, LU3 and LU4 can be specified within the same study set. ISLUs and RISLUs can also be specified within the same study set, but (for example) LU1 and ISLUs cannot exist on the same study set.

**Attribute: studygrp**

**Fullname:** Study group identifier

**Attribute Description** This field is used to store the study group identifier. Valid study group identifiers are 1 thru 5. There are a total of 10 study groups: 5 study groups for line unit types LU1, LU2, LU3 and LU4 (LU), and 5 study groups for types ISLU, ISLU2 or RISLU.

**Attribute: ids[*]**

**Fullname:** Identifiers.

**Attribute Description** The switch personnel must enter two identifiers - switching module and line unit (or (remote) integrated services line unit) to enable measurements generation and collection. Measurements are provided for all operational SGs (LGCs) on the specified identifier(s).

**Attribute: ids[*].smid0**

**Fullname:** Switching Module Identifier

**Attribute Description** Switching Module entered by the switch personnel. One of 100 (max).

**Attribute: ids[*].luid0**

**Fullname:** Line Unit ((R)ISLU) identifier.

**Attribute Description** Line unit or (remote) integrated services line unit entered by the switch personnel. One of 100 (max). Measurements will be generated for all operational switch groups or line group controllers on the specified line unit or ISLU.

**Attribute: ids[*].smid50**

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**Fullname:** Switching Module Identifier

**Attribute Description** Switching Module entered by the switch personnel. One of 100 (max).

**Attribute: ids[*].luid50**

**Fullname:** Line Unit ((R)ISLU) identifier.

**Attribute Description** Line unit or (remote) integrated services line unit entered by the switch personnel. One of 100 (max). Measurements will be generated for all operational switch groups or line group controllers on the specified Line Unit or ISLU.

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# MS_MLHG

## 1. Description

Measurements for multi-line hunt groups.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | EADAS |
| relation type | DBSTATIC |
| head table size | 1024 |
| data page size | 1024 |
| page level | 1 |
| l1 length of subkey1 | 1 |
| p1 position of subkey1 | 7 |
| ignore key bits | 0-6 |
| permutation type | un_perm |

## 3. Field Layout

```
MS_MLHG     relid = 507   DBSTATIC   DBACC_CIND  DBPRAM    LP      EADAS
     im_id        DMMODULE     (ushort: 8)  <--- key
     gps_in_use   DMMCUSECNT   (ushort)
     gp_id1       DMMS_GPID    (ushort)
     gp_id2       DMMS_GPID    (ushort)
     gp_id3       DMMS_GPID    (ushort)
     gp_id4       DMMS_GPID    (ushort)
     gp_id5       DMMS_GPID    (ushort)
     gp_id6       DMMS_GPID    (ushort)
     gp_id7       DMMS_GPID    (ushort)
     gp_id8       DMMS_GPID    (ushort)
     gp_id9       DMMS_GPID    (ushort)
     gp_id10      DMMS_GPID    (ushort)
     gp_id11      DMMS_GPID    (ushort)
     gp_id12      DMMS_GPID    (ushort)
     gp_id13      DMMS_GPID    (ushort)
     gp_id14      DMMS_GPID    (ushort)
     gp_id15      DMMS_GPID    (ushort)
     gp_id16      DMMS_GPID    (ushort)
     gp_id17      DMMS_GPID    (ushort)
     gp_id18      DMMS_GPID    (ushort)
     gp_id19      DMMS_GPID    (ushort)
     gp_id20      DMMS_GPID    (ushort)
     gp_id21      DMMS_GPID    (ushort)
     gp_id22      DMMS_GPID    (ushort)
     gp_id23      DMMS_GPID    (ushort)
     gp_id24      DMMS_GPID    (ushort)
     gp_id25      DMMS_GPID    (ushort)
     gp_id26      DMMS_GPID    (ushort)
     gp_id27      DMMS_GPID    (ushort)
     gp_id28      DMMS_GPID    (ushort)
     gp_id29      DMMS_GPID    (ushort)
     gp_id30      DMMS_GPID    (ushort)
```

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```
gp_id31     DMMS_GPID    (ushort)
gp_id32     DMMS_GPID    (ushort)
gp_id33     DMMS_GPID    (ushort)
gp_id34     DMMS_GPID    (ushort)
gp_id35     DMMS_GPID    (ushort)
gp_id36     DMMS_GPID    (ushort)
gp_id37     DMMS_GPID    (ushort)
gp_id38     DMMS_GPID    (ushort)
gp_id39     DMMS_GPID    (ushort)
gp_id40     DMMS_GPID    (ushort)
gp_id41     DMMS_GPID    (ushort)
gp_id42     DMMS_GPID    (ushort)
gp_id43     DMMS_GPID    (ushort)
gp_id44     DMMS_GPID    (ushort)
gp_id45     DMMS_GPID    (ushort)
gp_id46     DMMS_GPID    (ushort)
gp_id47     DMMS_GPID    (ushort)
gp_id48     DMMS_GPID    (ushort)
gp_id49     DMMS_GPID    (ushort)
gp_id50     DMMS_GPID    (ushort)
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gp_id58     DMMS_GPID    (ushort)
gp_id59     DMMS_GPID    (ushort)
gp_id60     DMMS_GPID    (ushort)
gp_id61     DMMS_GPID    (ushort)
gp_id62     DMMS_GPID    (ushort)
gp_id63     DMMS_GPID    (ushort)
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gp_id70     DMMS_GPID    (ushort)
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gp_id72     DMMS_GPID    (ushort)
gp_id73     DMMS_GPID    (ushort)
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gp_id84     DMMS_GPID    (ushort)
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gp_id137    DMMS_GPID    (ushort)
gp_id138    DMMS_GPID    (ushort)
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```

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```
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    gp_id198    DMMS_GPID    (ushort)
    gp_id199    DMMS_GPID    (ushort)
    gp_id200    DMMS_GPID    (ushort)
        User, Compacted and Stored Tuple Layout    MS_MLHG
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |               |                               |
 0 |     im_id     |***************|           gps_in_use          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |             gp_id1            |             gp_id2            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |             gp_id3            |             gp_id4            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |             gp_id5            |             gp_id6            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |             gp_id7            |             gp_id8            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |             gp_id9            |            gp_id10            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
24 |            gp_id11            |            gp_id12            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
28 |            gp_id13            |            gp_id14            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
32 |            gp_id15            |            gp_id16            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
36 |            gp_id17            |            gp_id18            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
40 |            gp_id19            |            gp_id20            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
44 |            gp_id21            |            gp_id22            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
48 |            gp_id23            |            gp_id24            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
52 |            gp_id25            |            gp_id26            |
   |---------------+---------------+---------------+---------------|
```

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| | | | |
|---|---|---|---|
| 56 | gp_id27 | gp_id28 | |
| 60 | gp_id29 | gp_id30 | |
| 64 | gp_id31 | gp_id32 | |
| 68 | gp_id33 | gp_id34 | |
| 72 | gp_id35 | gp_id36 | |
| 76 | gp_id37 | gp_id38 | |
| 80 | gp_id39 | gp_id40 | |
| 84 | gp_id41 | gp_id42 | |
| 88 | gp_id43 | gp_id44 | |
| 92 | gp_id45 | gp_id46 | |
| 96 | gp_id47 | gp_id48 | |
| 100 | gp_id49 | gp_id50 | |
| 104 | gp_id51 | gp_id52 | |
| 108 | gp_id53 | gp_id54 | |
| 112 | gp_id55 | gp_id56 | |
| 116 | gp_id57 | gp_id58 | |
| 120 | gp_id59 | gp_id60 | |
| 124 | gp_id61 | gp_id62 | |

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| | | |
|---|---|---|
| 128 | gp_id63 | gp_id64 |
| 132 | gp_id65 | gp_id66 |
| 136 | gp_id67 | gp_id68 |
| 140 | gp_id69 | gp_id70 |
| 144 | gp_id71 | gp_id72 |
| 148 | gp_id73 | gp_id74 |
| 152 | gp_id75 | gp_id76 |
| 156 | gp_id77 | gp_id78 |
| 160 | gp_id79 | gp_id80 |
| 164 | gp_id81 | gp_id82 |
| 168 | gp_id83 | gp_id84 |
| 172 | gp_id85 | gp_id86 |
| 176 | gp_id87 | gp_id88 |
| 180 | gp_id89 | gp_id90 |
| 184 | gp_id91 | gp_id92 |
| 188 | gp_id93 | gp_id94 |
| 192 | gp_id95 | gp_id96 |
| 196 | gp_id97 | gp_id98 |

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| | | |
|---|---|---|
| 200 | gp_id99 | gp_id100 |
| 204 | gp_id101 | gp_id102 |
| 208 | gp_id103 | gp_id104 |
| 212 | gp_id105 | gp_id106 |
| 216 | gp_id107 | gp_id108 |
| 220 | gp_id109 | gp_id110 |
| 224 | gp_id111 | gp_id112 |
| 228 | gp_id113 | gp_id114 |
| 232 | gp_id115 | gp_id116 |
| 236 | gp_id117 | gp_id118 |
| 240 | gp_id119 | gp_id120 |
| 244 | gp_id121 | gp_id122 |
| 248 | gp_id123 | gp_id124 |
| 252 | gp_id125 | gp_id126 |
| 256 | gp_id127 | gp_id128 |
| 260 | gp_id129 | gp_id130 |
| 264 | gp_id131 | gp_id132 |
| 268 | gp_id133 | gp_id134 |

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| | | | |
|---|---|---|---|
| 272 | gp_id135 | gp_id136 | |
| 276 | gp_id137 | gp_id138 | |
| 280 | gp_id139 | gp_id140 | |
| 284 | gp_id141 | gp_id142 | |
| 288 | gp_id143 | gp_id144 | |
| 292 | gp_id145 | gp_id146 | |
| 296 | gp_id147 | gp_id148 | |
| 300 | gp_id149 | gp_id150 | |
| 304 | gp_id151 | gp_id152 | |
| 308 | gp_id153 | gp_id154 | |
| 312 | gp_id155 | gp_id156 | |
| 316 | gp_id157 | gp_id158 | |
| 320 | gp_id159 | gp_id160 | |
| 324 | gp_id161 | gp_id162 | |
| 328 | gp_id163 | gp_id164 | |
| 332 | gp_id165 | gp_id166 | |
| 336 | gp_id167 | gp_id168 | |
| 340 | gp_id169 | gp_id170 | |

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```
    |                               |                               |
344 |            gp_id171           |            gp_id172           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
348 |            gp_id173           |            gp_id174           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
352 |            gp_id175           |            gp_id176           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
356 |            gp_id177           |            gp_id178           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
360 |            gp_id179           |            gp_id180           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
364 |            gp_id181           |            gp_id182           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
368 |            gp_id183           |            gp_id184           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
372 |            gp_id185           |            gp_id186           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
376 |            gp_id187           |            gp_id188           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
380 |            gp_id189           |            gp_id190           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
384 |            gp_id191           |            gp_id192           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
388 |            gp_id193           |            gp_id194           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
392 |            gp_id195           |            gp_id196           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
396 |            gp_id197           |            gp_id198           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
400 |            gp_id199           |            gp_id200           |
    |---------------+---------------+---------------+---------------|
       ( 404 bytes )
domain alMS_MLHG   struct  (3 sub-attributes)
         im_id       .1.fake      (ushort)
         gps_in_u    unsigned short (ushort)
         grps        .2.fake      (array [ 200 ] of unsigned short )

         Structure Layout      alMS_MLHG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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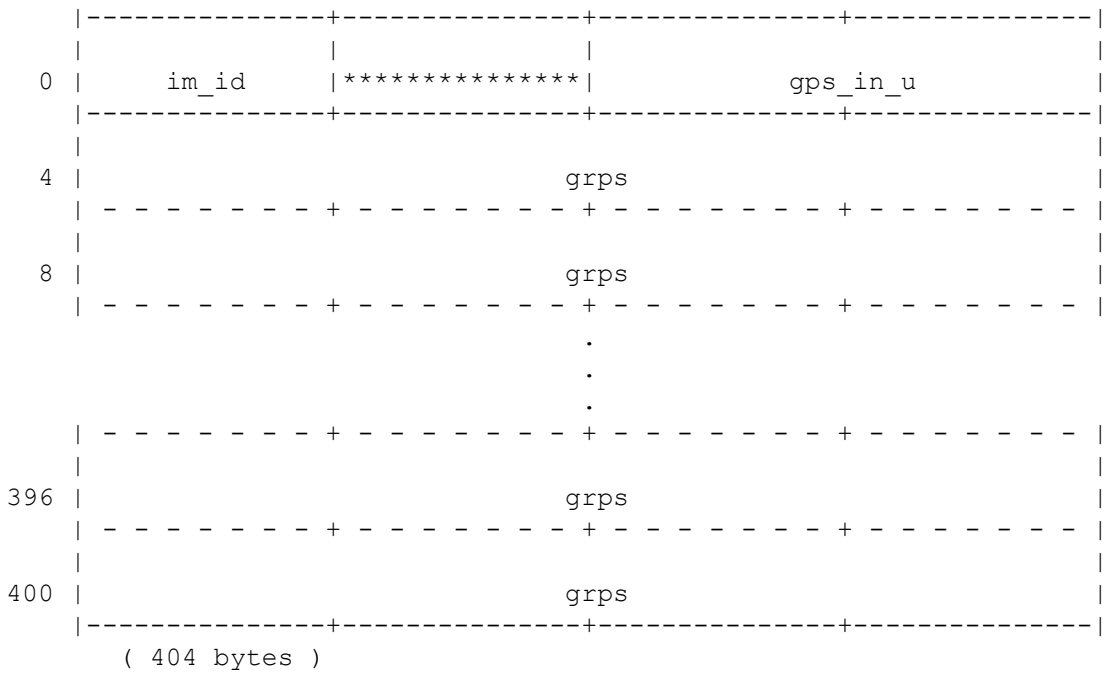


## 4. Population Rules for RLms_mlhg

**Relation Description** Measurements for multi-line hunt groups.

**Attribute: im_id**

**Fullname:** interface module identifier

**Attribute Description** Module 0 only applies. Dependencies: Relation must be populated.

**Attribute: gps_in_use**

**Fullname:** number of groups in use

**Attribute Description** Indicates the number of groups currently identified within the specified IM number tuple.

**Attribute: gp_id[*]**

**Fullname:** group identification number

**Attribute Description** Indicates a specified group identification number which is being measured.

Dependencies: All gp_id fields must be populated with either 0 (the default) or a valid MLHG ID.

The groupid must be unique, that is, it may appear in at most one gp_id{1-200} field in any one tuple.

If a gp_id number exists in this tuple then verify the existence of a tuple in RLrt_mhg with: grpnum in RLrt_mhg, which MLHG must have at least one member.

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# MS_PFA

## 1. Description

Measurements for private facilities access groups.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | EADAS |
| relation type | DBSTATIC |
| head table size | 1024 |
| data page size | 1024 |
| page level | 1 |
| l1 length of subkey1 | 1 |
| p1 position of subkey1 | 7 |
| ignore key bits | 0-6 |
| permutation type | un_perm |

## 3. Field Layout

```
MS_PFA      relid = 508   DBSTATIC   DBACC_CIND  DBPRAM    LP      EADAS
     im_id        DMMODULE     (ushort: 8)  <--- key
     gps_in_use   DMMCUSECNT   (ushort)
     gp_id1       DMMS_GPID    (ushort)
     gp_id2       DMMS_GPID    (ushort)
     gp_id3       DMMS_GPID    (ushort)
     gp_id4       DMMS_GPID    (ushort)
     gp_id5       DMMS_GPID    (ushort)
     gp_id6       DMMS_GPID    (ushort)
     gp_id7       DMMS_GPID    (ushort)
     gp_id8       DMMS_GPID    (ushort)
     gp_id9       DMMS_GPID    (ushort)
     gp_id10      DMMS_GPID    (ushort)
     gp_id11      DMMS_GPID    (ushort)
     gp_id12      DMMS_GPID    (ushort)
     gp_id13      DMMS_GPID    (ushort)
     gp_id14      DMMS_GPID    (ushort)
     gp_id15      DMMS_GPID    (ushort)
     gp_id16      DMMS_GPID    (ushort)
     gp_id17      DMMS_GPID    (ushort)
     gp_id18      DMMS_GPID    (ushort)
     gp_id19      DMMS_GPID    (ushort)
     gp_id20      DMMS_GPID    (ushort)
     gp_id21      DMMS_GPID    (ushort)
     gp_id22      DMMS_GPID    (ushort)
     gp_id23      DMMS_GPID    (ushort)
     gp_id24      DMMS_GPID    (ushort)
     gp_id25      DMMS_GPID    (ushort)
     gp_id26      DMMS_GPID    (ushort)
     gp_id27      DMMS_GPID    (ushort)
     gp_id28      DMMS_GPID    (ushort)
     gp_id29      DMMS_GPID    (ushort)
     gp_id30      DMMS_GPID    (ushort)
```

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```
gp_id31     DMMS_GPID    (ushort)
gp_id32     DMMS_GPID    (ushort)
gp_id33     DMMS_GPID    (ushort)
gp_id34     DMMS_GPID    (ushort)
gp_id35     DMMS_GPID    (ushort)
gp_id36     DMMS_GPID    (ushort)
gp_id37     DMMS_GPID    (ushort)
gp_id38     DMMS_GPID    (ushort)
gp_id39     DMMS_GPID    (ushort)
gp_id40     DMMS_GPID    (ushort)
gp_id41     DMMS_GPID    (ushort)
gp_id42     DMMS_GPID    (ushort)
gp_id43     DMMS_GPID    (ushort)
gp_id44     DMMS_GPID    (ushort)
gp_id45     DMMS_GPID    (ushort)
gp_id46     DMMS_GPID    (ushort)
gp_id47     DMMS_GPID    (ushort)
gp_id48     DMMS_GPID    (ushort)
gp_id49     DMMS_GPID    (ushort)
gp_id50     DMMS_GPID    (ushort)
gp_id51     DMMS_GPID    (ushort)
gp_id52     DMMS_GPID    (ushort)
gp_id53     DMMS_GPID    (ushort)
gp_id54     DMMS_GPID    (ushort)
gp_id55     DMMS_GPID    (ushort)
gp_id56     DMMS_GPID    (ushort)
gp_id57     DMMS_GPID    (ushort)
gp_id58     DMMS_GPID    (ushort)
gp_id59     DMMS_GPID    (ushort)
gp_id60     DMMS_GPID    (ushort)
gp_id61     DMMS_GPID    (ushort)
gp_id62     DMMS_GPID    (ushort)
gp_id63     DMMS_GPID    (ushort)
gp_id64     DMMS_GPID    (ushort)
gp_id65     DMMS_GPID    (ushort)
gp_id66     DMMS_GPID    (ushort)
gp_id67     DMMS_GPID    (ushort)
gp_id68     DMMS_GPID    (ushort)
gp_id69     DMMS_GPID    (ushort)
gp_id70     DMMS_GPID    (ushort)
gp_id71     DMMS_GPID    (ushort)
gp_id72     DMMS_GPID    (ushort)
gp_id73     DMMS_GPID    (ushort)
gp_id74     DMMS_GPID    (ushort)
gp_id75     DMMS_GPID    (ushort)
gp_id76     DMMS_GPID    (ushort)
gp_id77     DMMS_GPID    (ushort)
gp_id78     DMMS_GPID    (ushort)
gp_id79     DMMS_GPID    (ushort)
gp_id80     DMMS_GPID    (ushort)
gp_id81     DMMS_GPID    (ushort)
gp_id82     DMMS_GPID    (ushort)
gp_id83     DMMS_GPID    (ushort)
gp_id84     DMMS_GPID    (ushort)
```

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```
gp_id85     DMMS_GPID    (ushort)
gp_id86     DMMS_GPID    (ushort)
gp_id87     DMMS_GPID    (ushort)
gp_id88     DMMS_GPID    (ushort)
gp_id89     DMMS_GPID    (ushort)
gp_id90     DMMS_GPID    (ushort)
gp_id91     DMMS_GPID    (ushort)
gp_id92     DMMS_GPID    (ushort)
gp_id93     DMMS_GPID    (ushort)
gp_id94     DMMS_GPID    (ushort)
gp_id95     DMMS_GPID    (ushort)
gp_id96     DMMS_GPID    (ushort)
gp_id97     DMMS_GPID    (ushort)
gp_id98     DMMS_GPID    (ushort)
gp_id99     DMMS_GPID    (ushort)
gp_id100    DMMS_GPID    (ushort)
gp_id101    DMMS_GPID    (ushort)
gp_id102    DMMS_GPID    (ushort)
gp_id103    DMMS_GPID    (ushort)
gp_id104    DMMS_GPID    (ushort)
gp_id105    DMMS_GPID    (ushort)
gp_id106    DMMS_GPID    (ushort)
gp_id107    DMMS_GPID    (ushort)
gp_id108    DMMS_GPID    (ushort)
gp_id109    DMMS_GPID    (ushort)
gp_id110    DMMS_GPID    (ushort)
gp_id111    DMMS_GPID    (ushort)
gp_id112    DMMS_GPID    (ushort)
gp_id113    DMMS_GPID    (ushort)
gp_id114    DMMS_GPID    (ushort)
gp_id115    DMMS_GPID    (ushort)
gp_id116    DMMS_GPID    (ushort)
gp_id117    DMMS_GPID    (ushort)
gp_id118    DMMS_GPID    (ushort)
gp_id119    DMMS_GPID    (ushort)
gp_id120    DMMS_GPID    (ushort)
gp_id121    DMMS_GPID    (ushort)
gp_id122    DMMS_GPID    (ushort)
gp_id123    DMMS_GPID    (ushort)
gp_id124    DMMS_GPID    (ushort)
gp_id125    DMMS_GPID    (ushort)
gp_id126    DMMS_GPID    (ushort)
gp_id127    DMMS_GPID    (ushort)
gp_id128    DMMS_GPID    (ushort)
gp_id129    DMMS_GPID    (ushort)
gp_id130    DMMS_GPID    (ushort)
gp_id131    DMMS_GPID    (ushort)
gp_id132    DMMS_GPID    (ushort)
gp_id133    DMMS_GPID    (ushort)
gp_id134    DMMS_GPID    (ushort)
gp_id135    DMMS_GPID    (ushort)
gp_id136    DMMS_GPID    (ushort)
gp_id137    DMMS_GPID    (ushort)
gp_id138    DMMS_GPID    (ushort)
```

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```
gp_id139    DMMS_GPID    (ushort)
gp_id140    DMMS_GPID    (ushort)
gp_id141    DMMS_GPID    (ushort)
gp_id142    DMMS_GPID    (ushort)
gp_id143    DMMS_GPID    (ushort)
gp_id144    DMMS_GPID    (ushort)
gp_id145    DMMS_GPID    (ushort)
gp_id146    DMMS_GPID    (ushort)
gp_id147    DMMS_GPID    (ushort)
gp_id148    DMMS_GPID    (ushort)
gp_id149    DMMS_GPID    (ushort)
gp_id150    DMMS_GPID    (ushort)
gp_id151    DMMS_GPID    (ushort)
gp_id152    DMMS_GPID    (ushort)
gp_id153    DMMS_GPID    (ushort)
gp_id154    DMMS_GPID    (ushort)
gp_id155    DMMS_GPID    (ushort)
gp_id156    DMMS_GPID    (ushort)
gp_id157    DMMS_GPID    (ushort)
gp_id158    DMMS_GPID    (ushort)
gp_id159    DMMS_GPID    (ushort)
gp_id160    DMMS_GPID    (ushort)
gp_id161    DMMS_GPID    (ushort)
gp_id162    DMMS_GPID    (ushort)
gp_id163    DMMS_GPID    (ushort)
gp_id164    DMMS_GPID    (ushort)
gp_id165    DMMS_GPID    (ushort)
gp_id166    DMMS_GPID    (ushort)
gp_id167    DMMS_GPID    (ushort)
gp_id168    DMMS_GPID    (ushort)
gp_id169    DMMS_GPID    (ushort)
gp_id170    DMMS_GPID    (ushort)
gp_id171    DMMS_GPID    (ushort)
gp_id172    DMMS_GPID    (ushort)
gp_id173    DMMS_GPID    (ushort)
gp_id174    DMMS_GPID    (ushort)
gp_id175    DMMS_GPID    (ushort)
gp_id176    DMMS_GPID    (ushort)
gp_id177    DMMS_GPID    (ushort)
gp_id178    DMMS_GPID    (ushort)
gp_id179    DMMS_GPID    (ushort)
gp_id180    DMMS_GPID    (ushort)
gp_id181    DMMS_GPID    (ushort)
gp_id182    DMMS_GPID    (ushort)
gp_id183    DMMS_GPID    (ushort)
gp_id184    DMMS_GPID    (ushort)
gp_id185    DMMS_GPID    (ushort)
gp_id186    DMMS_GPID    (ushort)
gp_id187    DMMS_GPID    (ushort)
gp_id188    DMMS_GPID    (ushort)
gp_id189    DMMS_GPID    (ushort)
gp_id190    DMMS_GPID    (ushort)
gp_id191    DMMS_GPID    (ushort)
gp_id192    DMMS_GPID    (ushort)
```

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```
    gp_id193    DMMS_GPID    (ushort)
    gp_id194    DMMS_GPID    (ushort)
    gp_id195    DMMS_GPID    (ushort)
    gp_id196    DMMS_GPID    (ushort)
    gp_id197    DMMS_GPID    (ushort)
    gp_id198    DMMS_GPID    (ushort)
    gp_id199    DMMS_GPID    (ushort)
    gp_id200    DMMS_GPID    (ushort)
        User, Compacted and Stored Tuple Layout MS_PFA
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |               |                               |
 0 |     im_id     |***************|           gps_in_use          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |             gp_id1            |             gp_id2            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |             gp_id3            |             gp_id4            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |             gp_id5            |             gp_id6            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |             gp_id7            |             gp_id8            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |             gp_id9            |            gp_id10            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
24 |            gp_id11            |            gp_id12            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
28 |            gp_id13            |            gp_id14            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
32 |            gp_id15            |            gp_id16            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
36 |            gp_id17            |            gp_id18            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
40 |            gp_id19            |            gp_id20            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
44 |            gp_id21            |            gp_id22            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
48 |            gp_id23            |            gp_id24            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
52 |            gp_id25            |            gp_id26            |
   |---------------+---------------+---------------+---------------|
```

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| | | | |
|---|---|---|---|
| 56 | gp_id27 | gp_id28 | |
| 60 | gp_id29 | gp_id30 | |
| 64 | gp_id31 | gp_id32 | |
| 68 | gp_id33 | gp_id34 | |
| 72 | gp_id35 | gp_id36 | |
| 76 | gp_id37 | gp_id38 | |
| 80 | gp_id39 | gp_id40 | |
| 84 | gp_id41 | gp_id42 | |
| 88 | gp_id43 | gp_id44 | |
| 92 | gp_id45 | gp_id46 | |
| 96 | gp_id47 | gp_id48 | |
| 100 | gp_id49 | gp_id50 | |
| 104 | gp_id51 | gp_id52 | |
| 108 | gp_id53 | gp_id54 | |
| 112 | gp_id55 | gp_id56 | |
| 116 | gp_id57 | gp_id58 | |
| 120 | gp_id59 | gp_id60 | |
| 124 | gp_id61 | gp_id62 | |

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| | | |
|---|---|---|
| 128 | gp_id63 | gp_id64 |
| 132 | gp_id65 | gp_id66 |
| 136 | gp_id67 | gp_id68 |
| 140 | gp_id69 | gp_id70 |
| 144 | gp_id71 | gp_id72 |
| 148 | gp_id73 | gp_id74 |
| 152 | gp_id75 | gp_id76 |
| 156 | gp_id77 | gp_id78 |
| 160 | gp_id79 | gp_id80 |
| 164 | gp_id81 | gp_id82 |
| 168 | gp_id83 | gp_id84 |
| 172 | gp_id85 | gp_id86 |
| 176 | gp_id87 | gp_id88 |
| 180 | gp_id89 | gp_id90 |
| 184 | gp_id91 | gp_id92 |
| 188 | gp_id93 | gp_id94 |
| 192 | gp_id95 | gp_id96 |
| 196 | gp_id97 | gp_id98 |

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| | | |
|---|---|---|
| 200 | gp_id99 | gp_id100 |
| 204 | gp_id101 | gp_id102 |
| 208 | gp_id103 | gp_id104 |
| 212 | gp_id105 | gp_id106 |
| 216 | gp_id107 | gp_id108 |
| 220 | gp_id109 | gp_id110 |
| 224 | gp_id111 | gp_id112 |
| 228 | gp_id113 | gp_id114 |
| 232 | gp_id115 | gp_id116 |
| 236 | gp_id117 | gp_id118 |
| 240 | gp_id119 | gp_id120 |
| 244 | gp_id121 | gp_id122 |
| 248 | gp_id123 | gp_id124 |
| 252 | gp_id125 | gp_id126 |
| 256 | gp_id127 | gp_id128 |
| 260 | gp_id129 | gp_id130 |
| 264 | gp_id131 | gp_id132 |
| 268 | gp_id133 | gp_id134 |

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| | | | |
|---|---|---|---|
| 272 | gp_id135 | gp_id136 | |
| 276 | gp_id137 | gp_id138 | |
| 280 | gp_id139 | gp_id140 | |
| 284 | gp_id141 | gp_id142 | |
| 288 | gp_id143 | gp_id144 | |
| 292 | gp_id145 | gp_id146 | |
| 296 | gp_id147 | gp_id148 | |
| 300 | gp_id149 | gp_id150 | |
| 304 | gp_id151 | gp_id152 | |
| 308 | gp_id153 | gp_id154 | |
| 312 | gp_id155 | gp_id156 | |
| 316 | gp_id157 | gp_id158 | |
| 320 | gp_id159 | gp_id160 | |
| 324 | gp_id161 | gp_id162 | |
| 328 | gp_id163 | gp_id164 | |
| 332 | gp_id165 | gp_id166 | |
| 336 | gp_id167 | gp_id168 | |
| 340 | gp_id169 | gp_id170 | |

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```
    |                               |                               |
344 |            gp_id171           |            gp_id172           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
348 |            gp_id173           |            gp_id174           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
352 |            gp_id175           |            gp_id176           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
356 |            gp_id177           |            gp_id178           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
360 |            gp_id179           |            gp_id180           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
364 |            gp_id181           |            gp_id182           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
368 |            gp_id183           |            gp_id184           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
372 |            gp_id185           |            gp_id186           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
376 |            gp_id187           |            gp_id188           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
380 |            gp_id189           |            gp_id190           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
384 |            gp_id191           |            gp_id192           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
388 |            gp_id193           |            gp_id194           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
392 |            gp_id195           |            gp_id196           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
396 |            gp_id197           |            gp_id198           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
400 |            gp_id199           |            gp_id200           |
    |---------------+---------------+---------------+---------------|
       ( 404 bytes )
domain alMS_PFA   struct  (3 sub-attributes)
         im_id       .1.fake      (ushort)
         gps_in_use  unsigned short (ushort)
         grps        .2.fake      (array [ 200 ] of unsigned short )

         Structure Layout      alMS_PFA
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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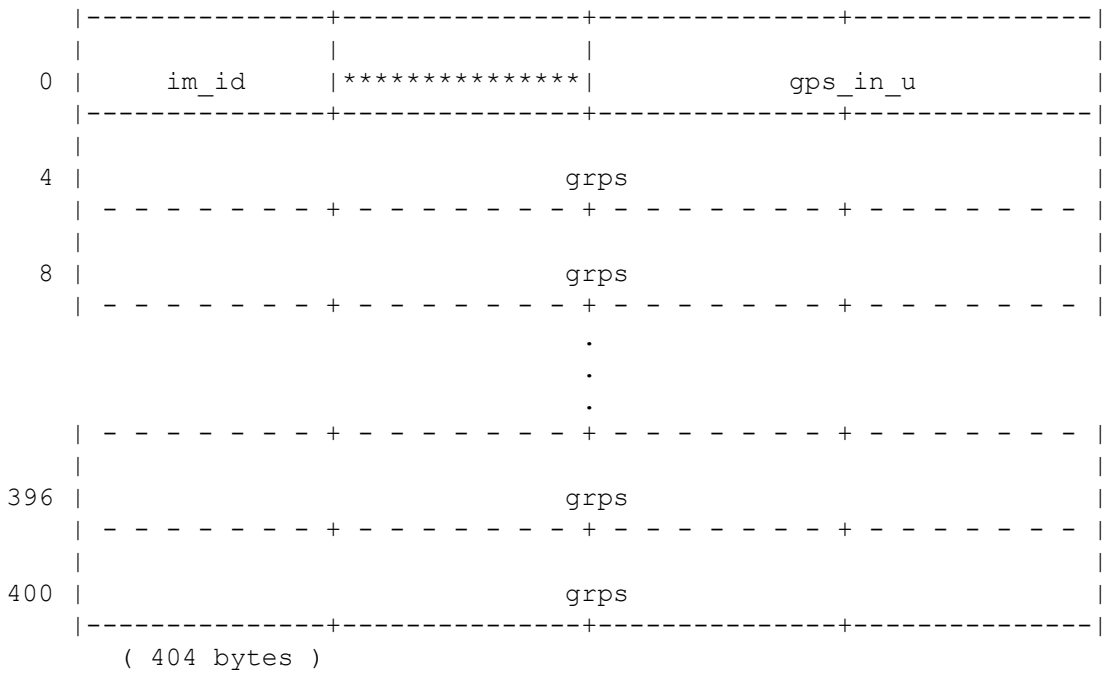


## 4. Population Rules for RLms_pfa

**Relation Description** Measurements for private facilities access type of simulated facility groups.

**Attribute: im_id**

**Fullname:** interface module identifier

**Attribute Description** Module 0 only applies.

**Attribute: gps_in_use**

**Fullname:** number of groups in use for each interface module

**Attribute Description** Indicates the number of groups currently identified within the specified IM number tuple.

**Attribute: gp_id[*]**

**Fullname:** group identification number

**Attribute Description** Indicates a specified group identification number which is being measured. All gp_id fields must be populated either with 0 (the default) or a valid PFA id.

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# MS_QAN

## 1. Description

Measurements for Queue Announcements (MS_QAN).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 576 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | EADAS |
| relation type | DBSTATIC |
| head table size | 512 |
| data page size | 1024 |
| page level | 2 |
| permutation type | un_perm |

## 3. Field Layout

```
MS_QAN      relid = 608   DBSTATIC   DBACC_CIND  DBPRAM    LP      EADAS
     sm_id        DMMODULE     (ushort: 8)     <--- key
 (a) grptyp       DMQPTYPE     (enum: 2)     <--- key
     gps_in_use   DMMCUSECNT   (ushort)
     gp_id1       DMMS_GPID    (ushort)
     gp_id2       DMMS_GPID    (ushort)
     gp_id3       DMMS_GPID    (ushort)
     gp_id4       DMMS_GPID    (ushort)
     gp_id5       DMMS_GPID    (ushort)
     gp_id6       DMMS_GPID    (ushort)
     gp_id7       DMMS_GPID    (ushort)
     gp_id8       DMMS_GPID    (ushort)
     gp_id9       DMMS_GPID    (ushort)
     gp_id10      DMMS_GPID    (ushort)
     gp_id11      DMMS_GPID    (ushort)
     gp_id12      DMMS_GPID    (ushort)
     gp_id13      DMMS_GPID    (ushort)
     gp_id14      DMMS_GPID    (ushort)
     gp_id15      DMMS_GPID    (ushort)
     gp_id16      DMMS_GPID    (ushort)
     gp_id17      DMMS_GPID    (ushort)
     gp_id18      DMMS_GPID    (ushort)
     gp_id19      DMMS_GPID    (ushort)
     gp_id20      DMMS_GPID    (ushort)
     gp_id21      DMMS_GPID    (ushort)
     gp_id22      DMMS_GPID    (ushort)
     gp_id23      DMMS_GPID    (ushort)
     gp_id24      DMMS_GPID    (ushort)
     gp_id25      DMMS_GPID    (ushort)
     gp_id26      DMMS_GPID    (ushort)
     gp_id27      DMMS_GPID    (ushort)
     gp_id28      DMMS_GPID    (ushort)
     gp_id29      DMMS_GPID    (ushort)
     gp_id30      DMMS_GPID    (ushort)
     gp_id31      DMMS_GPID    (ushort)
```

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```
gp_id32     DMMS_GPID    (ushort)
gp_id33     DMMS_GPID    (ushort)
gp_id34     DMMS_GPID    (ushort)
gp_id35     DMMS_GPID    (ushort)
gp_id36     DMMS_GPID    (ushort)
gp_id37     DMMS_GPID    (ushort)
gp_id38     DMMS_GPID    (ushort)
gp_id39     DMMS_GPID    (ushort)
gp_id40     DMMS_GPID    (ushort)
gp_id41     DMMS_GPID    (ushort)
gp_id42     DMMS_GPID    (ushort)
gp_id43     DMMS_GPID    (ushort)
gp_id44     DMMS_GPID    (ushort)
gp_id45     DMMS_GPID    (ushort)
gp_id46     DMMS_GPID    (ushort)
gp_id47     DMMS_GPID    (ushort)
gp_id48     DMMS_GPID    (ushort)
gp_id49     DMMS_GPID    (ushort)
gp_id50     DMMS_GPID    (ushort)
gp_id51     DMMS_GPID    (ushort)
gp_id52     DMMS_GPID    (ushort)
gp_id53     DMMS_GPID    (ushort)
gp_id54     DMMS_GPID    (ushort)
gp_id55     DMMS_GPID    (ushort)
gp_id56     DMMS_GPID    (ushort)
gp_id57     DMMS_GPID    (ushort)
gp_id58     DMMS_GPID    (ushort)
gp_id59     DMMS_GPID    (ushort)
gp_id60     DMMS_GPID    (ushort)
gp_id61     DMMS_GPID    (ushort)
gp_id62     DMMS_GPID    (ushort)
gp_id63     DMMS_GPID    (ushort)
gp_id64     DMMS_GPID    (ushort)
gp_id65     DMMS_GPID    (ushort)
gp_id66     DMMS_GPID    (ushort)
gp_id67     DMMS_GPID    (ushort)
gp_id68     DMMS_GPID    (ushort)
gp_id69     DMMS_GPID    (ushort)
gp_id70     DMMS_GPID    (ushort)
gp_id71     DMMS_GPID    (ushort)
gp_id72     DMMS_GPID    (ushort)
gp_id73     DMMS_GPID    (ushort)
gp_id74     DMMS_GPID    (ushort)
gp_id75     DMMS_GPID    (ushort)
gp_id76     DMMS_GPID    (ushort)
gp_id77     DMMS_GPID    (ushort)
gp_id78     DMMS_GPID    (ushort)
gp_id79     DMMS_GPID    (ushort)
gp_id80     DMMS_GPID    (ushort)
gp_id81     DMMS_GPID    (ushort)
gp_id82     DMMS_GPID    (ushort)
gp_id83     DMMS_GPID    (ushort)
gp_id84     DMMS_GPID    (ushort)
gp_id85     DMMS_GPID    (ushort)
```

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```
     gp_id86     DMMS_GPID    (ushort)
     gp_id87     DMMS_GPID    (ushort)
     gp_id88     DMMS_GPID    (ushort)
     gp_id89     DMMS_GPID    (ushort)
     gp_id90     DMMS_GPID    (ushort)
     gp_id91     DMMS_GPID    (ushort)
     gp_id92     DMMS_GPID    (ushort)
     gp_id93     DMMS_GPID    (ushort)
     gp_id94     DMMS_GPID    (ushort)
     gp_id95     DMMS_GPID    (ushort)
     gp_id96     DMMS_GPID    (ushort)
     gp_id97     DMMS_GPID    (ushort)
     gp_id98     DMMS_GPID    (ushort)
     gp_id99     DMMS_GPID    (ushort)
     gp_id100    DMMS_GPID    (ushort)
         User, Compacted and Stored Tuple Layout MS_QAN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                |   |           |                               |
  0 |     sm_id      | a |***********|           gps_in_use          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             gp_id1            |              gp_id2           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |             gp_id3            |              gp_id4           |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                               |                               |
196 |            gp_id97            |            gp_id98            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
200 |            gp_id99            |            gp_id100           |
    |---------------+---------------+---------------+---------------|
       ( 204 bytes )
domain alMS_QAN   struct  (4 sub-attributes)
         sm_id       .1.fake      (ushort)
 (a)     grptyp      .0fake       (enum)
         gps_in_use  unsigned short (ushort)
         grps        .2.fake      (array [ 100 ] of unsigned short )

         Structure Layout      alMS_QAN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                |   |           |                               |
  0 |     sm_id      | a |***********|           gps_in_use          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                              grps                             |
```

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```
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                           grps                                |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                .
                                .
                                .
196 |                           grps                                |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
200 |                           grps                                |
    |---------------+---------------+---------------+---------------|
       ( 204 bytes )
```

## 4. Population Rules for RLms_qan

**Relation Description** Measurements for Queue Announcements.

Measurements for queue announcements.

**Attribute: sm_id**

**Fullname:** Switching Module ID.

**Attribute Description** Identifies a switching module.
If sm_id=0 then the grps_in_use and gp_id[] attributes must reflect the union of all the other sm_id's for the grptyp given:

| sm_id | grptyp | gps_in_use | gp_id[1] | gp_id[2] | gp_id[3] |
|---|---|---|---|---|---|
| 0 | TM_QLINE | 2 | 5 | 21 | 0 |
| 0 | TM_QTRK | 3 | 6 | 23 | 27 |
| 0 | TM_QSFG | 1 | 9 | 0 | 0 |
| 1 | TM_QLINE | 1 | 5 | 0 | 0 |
| 1 | TM_QTRK | 2 | 0 | 23 | 27 |
| 1 | TM_QSFG | 0 | 0 | 0 | 0 |
| 4 | TM_QLINE | 1 | 0 | 21 | 0 |
| 4 | TM_QTRK | 1 | 6 | 0 | 0 |
| 4 | TM_QSFG | 1 | 9 | 0 | 0 |

In this example for the grptyp TM_QTRK, the gps_in_use field for sm_id = 0, has the value 3, which is the sum of all the unique gp_ids across all the other SM tuples (sm_id != 0) for that grptyp.

Note that the gps_in_use field for each SM tuple (sm_id != 0) is the total number of non-zero gp_ids in that tuple. Also note that any non-zero gp_id field in each SM tuple must be unique to only that SM tuple and grptyp.

For tuples where sm_id is non-zero, the sm_id must correspond to the queuing SM. Thus for gp_id = 5 of type TM_QLINE to appear in the example in tuple sm_id = 1, that group number must be associated with queuing SM 1, as determined by the proper MLHG relation, that is,

```
RLrt_mhg.grpnum = 5
RLrt_mhg.qmodule = 1
```

**Attribute: grptyp**

**Fullname:** Group Type.

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**Attribute Description** A tuple for each sm_id in the office must be initialized for each grptype. Thus the number of tuples in this relation will be 3 times the number of SMs plus 3 (one for each of the( sm_id=0,grptyp) tuples)in the office.

**Attribute: gps_in_use**

**Fullname:** Group In Use.

**Attribute Description** Indicates the number of non-zero groups currently identified within the specified SM number tuple (also refer to usage for attribute sm_id).

Attributes gp_id1 to gp_id100 For grptype TM_QTRK or TM_QSFG, gps_in_use must be less than or equal to 75.

**Attribute: gp_id[*]**

**Fullname:** Group Identification Number

**Attribute Description** Indicates a specified group identification number which is being measured. All gp_id fields must be populated either with 0 (the default) or a valid QAN group id. The groupid must be unique, that is, it may appear in at most one gp_id{1-100} field in any one tuple.

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# MS_QU

## 1. Description

Measurements for Queues (MS_QU).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | LP |
| application | EADAS |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 1024 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
MS_QU       relid = 607   DBSTATIC   DBACC_LIN   DBPRAM    LP      EADAS
     sm_id        DMMODULE     (ushort: 8)     <--- key
 (a) gptyp        DMQPTYPE     (enum: 2)     <--- key
     gps_in_use   DMMCUSECNT   (ushort)
     gp_id1       DMMS_GPID    (ushort)
     gp_id2       DMMS_GPID    (ushort)
     gp_id3       DMMS_GPID    (ushort)
     gp_id4       DMMS_GPID    (ushort)
     gp_id5       DMMS_GPID    (ushort)
     gp_id6       DMMS_GPID    (ushort)
     gp_id7       DMMS_GPID    (ushort)
     gp_id8       DMMS_GPID    (ushort)
     gp_id9       DMMS_GPID    (ushort)
     gp_id10      DMMS_GPID    (ushort)
     gp_id11      DMMS_GPID    (ushort)
     gp_id12      DMMS_GPID    (ushort)
     gp_id13      DMMS_GPID    (ushort)
     gp_id14      DMMS_GPID    (ushort)
     gp_id15      DMMS_GPID    (ushort)
     gp_id16      DMMS_GPID    (ushort)
     gp_id17      DMMS_GPID    (ushort)
     gp_id18      DMMS_GPID    (ushort)
     gp_id19      DMMS_GPID    (ushort)
     gp_id20      DMMS_GPID    (ushort)
     gp_id21      DMMS_GPID    (ushort)
     gp_id22      DMMS_GPID    (ushort)
     gp_id23      DMMS_GPID    (ushort)
     gp_id24      DMMS_GPID    (ushort)
     gp_id25      DMMS_GPID    (ushort)
     gp_id26      DMMS_GPID    (ushort)
     gp_id27      DMMS_GPID    (ushort)
     gp_id28      DMMS_GPID    (ushort)
     gp_id29      DMMS_GPID    (ushort)
     gp_id30      DMMS_GPID    (ushort)
     gp_id31      DMMS_GPID    (ushort)
```

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```
gp_id32     DMMS_GPID    (ushort)
gp_id33     DMMS_GPID    (ushort)
gp_id34     DMMS_GPID    (ushort)
gp_id35     DMMS_GPID    (ushort)
gp_id36     DMMS_GPID    (ushort)
gp_id37     DMMS_GPID    (ushort)
gp_id38     DMMS_GPID    (ushort)
gp_id39     DMMS_GPID    (ushort)
gp_id40     DMMS_GPID    (ushort)
gp_id41     DMMS_GPID    (ushort)
gp_id42     DMMS_GPID    (ushort)
gp_id43     DMMS_GPID    (ushort)
gp_id44     DMMS_GPID    (ushort)
gp_id45     DMMS_GPID    (ushort)
gp_id46     DMMS_GPID    (ushort)
gp_id47     DMMS_GPID    (ushort)
gp_id48     DMMS_GPID    (ushort)
gp_id49     DMMS_GPID    (ushort)
gp_id50     DMMS_GPID    (ushort)
gp_id51     DMMS_GPID    (ushort)
gp_id52     DMMS_GPID    (ushort)
gp_id53     DMMS_GPID    (ushort)
gp_id54     DMMS_GPID    (ushort)
gp_id55     DMMS_GPID    (ushort)
gp_id56     DMMS_GPID    (ushort)
gp_id57     DMMS_GPID    (ushort)
gp_id58     DMMS_GPID    (ushort)
gp_id59     DMMS_GPID    (ushort)
gp_id60     DMMS_GPID    (ushort)
gp_id61     DMMS_GPID    (ushort)
gp_id62     DMMS_GPID    (ushort)
gp_id63     DMMS_GPID    (ushort)
gp_id64     DMMS_GPID    (ushort)
gp_id65     DMMS_GPID    (ushort)
gp_id66     DMMS_GPID    (ushort)
gp_id67     DMMS_GPID    (ushort)
gp_id68     DMMS_GPID    (ushort)
gp_id69     DMMS_GPID    (ushort)
gp_id70     DMMS_GPID    (ushort)
gp_id71     DMMS_GPID    (ushort)
gp_id72     DMMS_GPID    (ushort)
gp_id73     DMMS_GPID    (ushort)
gp_id74     DMMS_GPID    (ushort)
gp_id75     DMMS_GPID    (ushort)
gp_id76     DMMS_GPID    (ushort)
gp_id77     DMMS_GPID    (ushort)
gp_id78     DMMS_GPID    (ushort)
gp_id79     DMMS_GPID    (ushort)
gp_id80     DMMS_GPID    (ushort)
gp_id81     DMMS_GPID    (ushort)
gp_id82     DMMS_GPID    (ushort)
gp_id83     DMMS_GPID    (ushort)
gp_id84     DMMS_GPID    (ushort)
gp_id85     DMMS_GPID    (ushort)
```

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```
     gp_id86     DMMS_GPID    (ushort)
     gp_id87     DMMS_GPID    (ushort)
     gp_id88     DMMS_GPID    (ushort)
     gp_id89     DMMS_GPID    (ushort)
     gp_id90     DMMS_GPID    (ushort)
     gp_id91     DMMS_GPID    (ushort)
     gp_id92     DMMS_GPID    (ushort)
     gp_id93     DMMS_GPID    (ushort)
     gp_id94     DMMS_GPID    (ushort)
     gp_id95     DMMS_GPID    (ushort)
     gp_id96     DMMS_GPID    (ushort)
     gp_id97     DMMS_GPID    (ushort)
     gp_id98     DMMS_GPID    (ushort)
     gp_id99     DMMS_GPID    (ushort)
     gp_id100    DMMS_GPID    (ushort)
         User, Compacted and Stored Tuple Layout  MS_QU
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |   |           |                               |
  0 |     sm_id     | a |***********|           gps_in_use          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             gp_id1            |              gp_id2           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |             gp_id3            |              gp_id4           |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                               |                               |
196 |            gp_id97            |            gp_id98            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
200 |            gp_id99            |            gp_id100           |
    |---------------+---------------+---------------+---------------|
       ( 204 bytes )
domain alMS_QU    struct  (4 sub-attributes)
         sm_id       .1.fake      (ushort)
 (a)     gptyp       .0fake       (enum)
         gps_in_use  unsigned short (ushort)
         grps        .2.fake      (array [ 100 ] of unsigned short )

         Structure Layout   alMS_QU
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |   |           |                               |
  0 |     sm_id     | a |***********|           gps_in_use          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                              grps                             |
```

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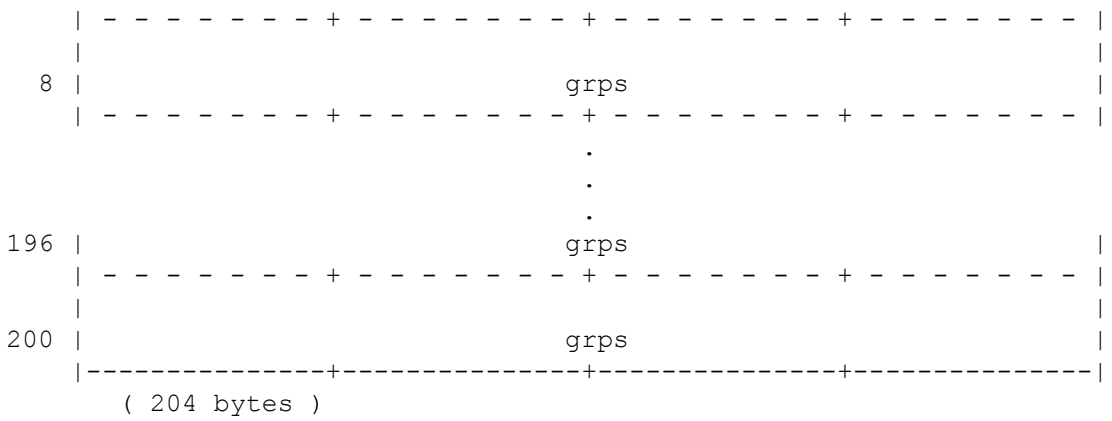


## 4. Population Rules for RLms_qu

**Relation Description** Measurements for Queues

Measurements for queues.

**Attribute: sm_id**

**Fullname:** Identifies a switching module.

**Attribute Description** Identifies a switching module. Part of the key to this relation. Module 0 only applies.

**Attribute: gptyp**

**Fullname:** Group Type

**Attribute Description** Part of the key to this relation. A tuple for each gptyp (TM_QLINE, TM_QTRK, TM_QSFG) should be initialized.

**Attribute: gps_in_use**

**Fullname:** Number of groups in use for each switching module.

**Attribute Description** Indicates the number of groups currently identified within the specified SM number tuple. Dependencies: For gptyp equal TM_QTRK or TM_QSFG, gps_in_use must be less than or equal to 75.

**Attribute: gp_id[*]**

**Fullname:** Group Identification Number

**Attribute Description** Indicates a specified group identification number which is being measured. All gp_id fields must be populated either with 0 (the default) or a valid QU group id. The groupid must be unique, that is, it may appear in at most one gp_id{1-100} field in any one tuple.

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# MS_SC

## 1. Description

This SM relation - identifies the number of High Level Service Circuits (HLSC)s per LU.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 45 |
| expected tuples in relation | 6 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | MShscopy |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| density | 100 |

## 3. Field Layout

```
MS_SC       relid = 2012  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     lu_hlsc_cnt  DMCOUNT      (ushort)
     lu_id       DMUNITNO     (ushort: 8)     <--- key
     lu_type     DMUNITTYPE   (enum: 7)
         User, Compacted and Stored Tuple Layout  MS_SC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |             | |
  0 |          lu_hlsc_cnt          |     lu_id     |   lu_type   |*|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLms_sc

**Relation Description** Measurements information about the number of operational High Level Service Circuits (HLSC).

Relation for counting the number of High Level Service Circuits (HLSC) per Line Unit. This relation is read to determine the number of operational HLSCs on a given Switching Module and Line Unit (LU) (or (Remote) Integrated Services Line Unit ((R)ISLU)). Whenever the status of a HLSC is changed from non-operational to operational, 'lu_hlsc_cnt' is incremented. If the status is changed from operational to non-operational or is deleted from operational, 'lu_hlsc_cnt' is decremented.

**Attribute: lu_id**

**Fullname:** Line Unit Identification.

**Attribute Description** The Line Unit ID uniquely identifies a LU on a given SM.

**Attribute: lu_type**

**Fullname:** Line Unit Type.

**Attribute Description** This attribute specifies the LU type of this particular LU.

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**Attribute: lu_hlsc_cnt**

**Fullname:** Line Unit High Level Service Circuit count.

**Attribute Description** This attribute holds the count of HLSCs that are available by LU = lu_id for a given SM.

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# MS_SGEQ

## 1. Description

Counts the number of operational Switch Groups (SG) or Line Group Controllers (LGC) on a LU or (R)ISLU.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 384 |
| expected tuples in relation | 48 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | EADAS |
| relation type | DBSTATIC |
| trigger function | MSsgeq_trig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | unperm |

## 3. Field Layout

```
MS_SGEQ     relid = 1489  DBSTATIC   DBACC_CIND  DBPRAM    LP      EADAS
 (a) lu_type     DMMS_LUTYP   (enum: 2)     <--- key
     smid        DMMODULE     (ushort: 8)     <--- key
     lu0_sgcnt   DMMS_SGCNT   (struct)
         lu_sgcnt    DMSHORT      (short)
         pad         DMUNS16      (ushort)
     lu1_sgcnt   DMMS_SGCNT   (struct)
         lu_sgcnt    DMSHORT      (short)
         pad         DMUNS16      (ushort)
     lu2_sgcnt   DMMS_SGCNT   (struct)
         lu_sgcnt    DMSHORT      (short)
         pad         DMUNS16      (ushort)
     lu3_sgcnt   DMMS_SGCNT   (struct)
         lu_sgcnt    DMSHORT      (short)
         pad         DMUNS16      (ushort)
     lu4_sgcnt   DMMS_SGCNT   (struct)
         lu_sgcnt    DMSHORT      (short)
         pad         DMUNS16      (ushort)
     lu5_sgcnt   DMMS_SGCNT   (struct)
         lu_sgcnt    DMSHORT      (short)
         pad         DMUNS16      (ushort)
     lu6_sgcnt   DMMS_SGCNT   (struct)
         lu_sgcnt    DMSHORT      (short)
         pad         DMUNS16      (ushort)
     lu7_sgcnt   DMMS_SGCNT   (struct)
         lu_sgcnt    DMSHORT      (short)
         pad         DMUNS16      (ushort)
     lu8_sgcnt   DMMS_SGCNT   (struct)
         lu_sgcnt    DMSHORT      (short)
         pad         DMUNS16      (ushort)
     lu9_sgcnt   DMMS_SGCNT   (struct)
         lu_sgcnt    DMSHORT      (short)
         pad         DMUNS16      (ushort)
```

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```
lu10_sgcnt  DMMS_SGCNT   (struct)
    lu_sgcnt    DMSHORT      (short)
    pad         DMUNS16      (ushort)
lu11_sgcnt  DMMS_SGCNT   (struct)
    lu_sgcnt    DMSHORT      (short)
    pad         DMUNS16      (ushort)
lu12_sgcnt  DMMS_SGCNT   (struct)
    lu_sgcnt    DMSHORT      (short)
    pad         DMUNS16      (ushort)
lu13_sgcnt  DMMS_SGCNT   (struct)
    lu_sgcnt    DMSHORT      (short)
    pad         DMUNS16      (ushort)
lu14_sgcnt  DMMS_SGCNT   (struct)
    lu_sgcnt    DMSHORT      (short)
    pad         DMUNS16      (ushort)
lu15_sgcnt  DMMS_SGCNT   (struct)
    lu_sgcnt    DMSHORT      (short)
    pad         DMUNS16      (ushort)
lu16_sgcnt  DMMS_SGCNT   (struct)
    lu_sgcnt    DMSHORT      (short)
    pad         DMUNS16      (ushort)
lu17_sgcnt  DMMS_SGCNT   (struct)
    lu_sgcnt    DMSHORT      (short)
    pad         DMUNS16      (ushort)
lu18_sgcnt  DMMS_SGCNT   (struct)
    lu_sgcnt    DMSHORT      (short)
    pad         DMUNS16      (ushort)
lu19_sgcnt  DMMS_SGCNT   (struct)
    lu_sgcnt    DMSHORT      (short)
    pad         DMUNS16      (ushort)
lu20_sgcnt  DMMS_SGCNT   (struct)
    lu_sgcnt    DMSHORT      (short)
    pad         DMUNS16      (ushort)
lu21_sgcnt  DMMS_SGCNT   (struct)
    lu_sgcnt    DMSHORT      (short)
    pad         DMUNS16      (ushort)
lu22_sgcnt  DMMS_SGCNT   (struct)
    lu_sgcnt    DMSHORT      (short)
    pad         DMUNS16      (ushort)
lu23_sgcnt  DMMS_SGCNT   (struct)
    lu_sgcnt    DMSHORT      (short)
    pad         DMUNS16      (ushort)
lu24_sgcnt  DMMS_SGCNT   (struct)
    lu_sgcnt    DMSHORT      (short)
    pad         DMUNS16      (ushort)
lu25_sgcnt  DMMS_SGCNT   (struct)
    lu_sgcnt    DMSHORT      (short)
    pad         DMUNS16      (ushort)
lu26_sgcnt  DMMS_SGCNT   (struct)
    lu_sgcnt    DMSHORT      (short)
    pad         DMUNS16      (ushort)
lu27_sgcnt  DMMS_SGCNT   (struct)
    lu_sgcnt    DMSHORT      (short)
    pad         DMUNS16      (ushort)
```

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```
    lu28_sgcnt  DMMS_SGCNT   (struct)
        lu_sgcnt    DMSHORT      (short)
        pad         DMUNS16      (ushort)
    lu29_sgcnt  DMMS_SGCNT   (struct)
        lu_sgcnt    DMSHORT      (short)
        pad         DMUNS16      (ushort)
    lu30_sgcnt  DMMS_SGCNT   (struct)
        lu_sgcnt    DMSHORT      (short)
        pad         DMUNS16      (ushort)
    lu31_sgcnt  DMMS_SGCNT   (struct)
        lu_sgcnt    DMSHORT      (short)
        pad         DMUNS16      (ushort)
    lu32_sgcnt  DMMS_SGCNT   (struct)
        lu_sgcnt    DMSHORT      (short)
        pad         DMUNS16      (ushort)
    lu33_sgcnt  DMMS_SGCNT   (struct)
        lu_sgcnt    DMSHORT      (short)
        pad         DMUNS16      (ushort)
    lu34_sgcnt  DMMS_SGCNT   (struct)
        lu_sgcnt    DMSHORT      (short)
        pad         DMUNS16      (ushort)
    lu35_sgcnt  DMMS_SGCNT   (struct)
        lu_sgcnt    DMSHORT      (short)
        pad         DMUNS16      (ushort)
    lu36_sgcnt  DMMS_SGCNT   (struct)
        lu_sgcnt    DMSHORT      (short)
        pad         DMUNS16      (ushort)
    lu37_sgcnt  DMMS_SGCNT   (struct)
        lu_sgcnt    DMSHORT      (short)
        pad         DMUNS16      (ushort)
    lu38_sgcnt  DMMS_SGCNT   (struct)
        lu_sgcnt    DMSHORT      (short)
        pad         DMUNS16      (ushort)
    lu39_sgcnt  DMMS_SGCNT   (struct)
        lu_sgcnt    DMSHORT      (short)
        pad         DMUNS16      (ushort)
    lu40_sgcnt  DMMS_SGCNT   (struct)
        lu_sgcnt    DMSHORT      (short)
        pad         DMUNS16      (ushort)
    lu41_sgcnt  DMMS_SGCNT   (struct)
        lu_sgcnt    DMSHORT      (short)
        pad         DMUNS16      (ushort)
    lu42_sgcnt  DMMS_SGCNT   (struct)
        lu_sgcnt    DMSHORT      (short)
        pad         DMUNS16      (ushort)
        User, Compacted and Stored Tuple Layout    MS_SGEQ
  |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
  |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
  |---------------+---------------+---------------+---------------|
  |   |               |                                           |
0 | a |      smid     |*******************************************|
  |===============+========== lu0_sgcnt ==========+===============|
  |                               |                               |
4 |            lu_sgcnt           |              pad              |
```

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```
    |===============+========== lu1_sgcnt ==========+===============|
    |                               |                               |
  8 |            lu_sgcnt           |              pad              |
    |===============+========== lu2_sgcnt ==========+===============|
                                    .
                                    .
                                    .
    |===============+=========  lu41_sgcnt =========+===============|
    |                               |                               |
168 |            lu_sgcnt           |              pad              |
    |===============+=========  lu42_sgcnt =========+===============|
    |                               |                               |
172 |            lu_sgcnt           |              pad              |
    |===============+===============+===============+===============|
       ( 176 bytes )
domain alMS_SGEQ  struct  (3 sub-attributes)
 (a)     lu_type     .0fake       (enum)
         smid        .1.fake      (ushort)
         lu_sgcnt    .2.fake      (array [ 43 ] of .1fake )
             lu_sgcnt    short        (short)
             pad         unsigned short (ushort)

         Structure Layout     alMS_SGEQ
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |   |               |                                           |
  0 | a |      smid     |*******************************************|
    |===============+========= lu_sgcnt[0] =========+===============|
    |                               |                               |
  4 |            lu_sgcnt           |              pad              |
    |===============+========= lu_sgcnt[1] =========+===============|
    |                               |                               |
  8 |            lu_sgcnt           |              pad              |
    |===============+========= lu_sgcnt[2] =========+===============|
    |                               |                               |
 12 |            lu_sgcnt           |              pad              |
    |===============+========= lu_sgcnt[3] =========+===============|
                                    .
                                    .
                                    .
    |===============+========  lu_sgcnt[41] ========+===============|
    |                               |                               |
168 |            lu_sgcnt           |              pad              |
    |===============+========  lu_sgcnt[42] ========+===============|
    |                               |                               |
172 |            lu_sgcnt           |              pad              |
    |===============+===============+===============+===============|
       ( 176 bytes )
```

## 4. Population Rules for RLms_sgeq

**Relation Description** Measurements information about the number of operational Switch Groups and Line Groups.

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Relation for Switch Group (SG) (a.k.a half-grid) and Line Group (LG) Measurements. This relation is read to determine the number of operational SGs or LGs on a given Switching Module and Line Unit (LU) (or (Remote) Integrated Services Line Unit ((R)ISLU)). Whenever the status of a SG or LG is changed from non-operational to operational, luX_sgcnt is incremented. If the status is changed from operational to non-operational or is deleted from operational, luX_sgcnt is decremented.

**Attribute: lu_type**

**Fullname:** Line Unit Type

**Attribute Description** This field indicates the type of line unit (LU or ISLU) of the luX_sgcnt attributes.

**Attribute: smid**

**Fullname:** Switching Module identifier

**Attribute Description** This field indicates the Switching Module number.

**Attribute: lu[*]_sgcnt**

**Fullname:** Line Unit Switch Group (or (Remote) Integrated Services Line Unit Line Group) Count.

**Attribute Description** Structure for attribute luX_sgcnt (where X equals 0-42).

**Attribute: lu[*]_sgcnt.lu_sgcnt**

**Fullname:** Line Unit Switch Group (or (Remote) Integrated Services Line Unit Line Group) Count

**Attribute Description** This field indicates the number of SGs or LGs on LU ((R)ISLU) number x (where x is 0 - 42).

**Attribute: lu[*]_sgcnt.pad**

**Fullname:** Padded

**Attribute Description** Not used.

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# MS_SGSDY

## 1. Description

SM relation - identifies the LUs studied and study groups for LUs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2 |
| expected tuples in relation | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | MSsgsd_trig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| density | 100 |
| permutation type | unperm |

## 3. Field Layout

```
MS_SGSDY    relid = 1488  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
 (a) lu_type     DMMS_LUTYP   (enum: 2)     <--- key
     lu0study_grp  DMMS_SGSDY   (struct)
         lustudy_grp  DMUNS6       (ushort: 6)
     lu1study_grp  DMMS_SGSDY   (struct)
         lustudy_grp  DMUNS6       (ushort: 6)
     lu2study_grp  DMMS_SGSDY   (struct)
         lustudy_grp  DMUNS6       (ushort: 6)
     lu3study_grp  DMMS_SGSDY   (struct)
         lustudy_grp  DMUNS6       (ushort: 6)
     lu4study_grp  DMMS_SGSDY   (struct)
         lustudy_grp  DMUNS6       (ushort: 6)
     lu5study_grp  DMMS_SGSDY   (struct)
         lustudy_grp  DMUNS6       (ushort: 6)
     lu6study_grp  DMMS_SGSDY   (struct)
         lustudy_grp  DMUNS6       (ushort: 6)
     lu7study_grp  DMMS_SGSDY   (struct)
         lustudy_grp  DMUNS6       (ushort: 6)
     lu8study_grp  DMMS_SGSDY   (struct)
         lustudy_grp  DMUNS6       (ushort: 6)
     lu9study_grp  DMMS_SGSDY   (struct)
         lustudy_grp  DMUNS6       (ushort: 6)
     lu10study_grp  DMMS_SGSDY   (struct)
         lustudy_grp  DMUNS6       (ushort: 6)
     lu11study_grp  DMMS_SGSDY   (struct)
         lustudy_grp  DMUNS6       (ushort: 6)
     lu12study_grp  DMMS_SGSDY   (struct)
         lustudy_grp  DMUNS6       (ushort: 6)
     lu13study_grp  DMMS_SGSDY   (struct)
         lustudy_grp  DMUNS6       (ushort: 6)
     lu14study_grp  DMMS_SGSDY   (struct)
         lustudy_grp  DMUNS6       (ushort: 6)
     lu15study_grp  DMMS_SGSDY   (struct)
```

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```
    lustudy_grp  DMUNS6       (ushort: 6)
lu16study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu17study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu18study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu19study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu20study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu21study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu22study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu23study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu24study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu25study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu26study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu27study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu28study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu29study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu30study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu31study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu32study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu33study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu34study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu35study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu36study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu37study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu38study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu39study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu40study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu41study_grp  DMMS_SGSDY   (struct)
    lustudy_grp  DMUNS6       (ushort: 6)
lu42study_grp  DMMS_SGSDY   (struct)
```

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```
         lustudy_grp  DMUNS6       (ushort: 6)
         User, Compacted and Stored Tuple Layout   MS_SGSDY
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |   |                                                           |
  0 | a |***********************************************************|
    |===============+========  lu0study_grp ========+===============|
    |           |                                                   |
  4 |lustudy_grp|***********************************************************|
    |===============+========  lu1study_grp ========+===============|
                                    .
                                    .
                                    .
164 |lustudy_grp|***********************************************************|
    |===============+======== lu41study_grp ========+===============|
    |           |                                                   |
168 |lustudy_grp|***********************************************************|
    |===============+======== lu42study_grp ========+===============|
    |           |                                                   |
172 |lustudy_grp|***********************************************************|
    |===============+===============+===============+===============|
       ( 176 bytes )
domain alMS_SGSDY struct  (2 sub-attributes)
```

(a) lu_type .0fake (enum) lustudy_grp .1.fake (array [ 43 ] of .1fake ) lustudy_grp .0.fake (ushort: 6)

```
         Structure Layout    alMS_SGSDY
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |   |                                                           |
  0 | a |***********************************************************|
    |===============+=======  lustudy_grp[0] =======+===============|
    |           |                                                   |
  4 |lustudy_grp|***********************************************************|
    |===============+=======  lustudy_grp[1] =======+===============|
    |           |                                                   |
  8 |lustudy_grp|***********************************************************|
    |===============+=======  lustudy_grp[2] =======+===============|
    |           |                                                   |
 12 |lustudy_grp|***********************************************************|
    |===============+=======  lustudy_grp[3] =======+===============|
                                    .
                                    .
                                    .
    |===============+======= lustudy_grp[42] =======+===============|
    |           |                                                   |
    |           |                                                   |
172 |lustudy_grp|***********************************************************|
    |===============+===============+===============+===============|
       ( 176 bytes )
```

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## 4. Population Rules for RLms_sgsdy

**Relation Description** Study Groups for Switch Group and Line Group Controller Measurements.

Relation for Switch Group and Line Group Controller Measurements. This relation is updated when the RLms_lusdy relation is populated with identifiers (Switching Module (SM), Line Unit and Study Group) via RC or ODA.

This relation identifies all the measurements study groups assigned for each Line Unit (LU) or (Remote) Integrated Services Line Unit ((R)ISLU) in this SM. Since a LU and ISLU can be part of multiple study groups, each bit in the luXstudy_grp attribute represents the corresponding study group.'

**Attribute: lu_type**

**Fullname:** Line Unit Type

**Attribute Description** This field indicates the type of line unit (LU or ISLU).

**Attribute: lu[*]study_grp**

**Fullname:** Line Unit (Remote) Integrated Services Line Unit (0-42) Study Group

**Attribute Description** Line Unit Study Group for Line Unit X (where X is 0-42).

**Attribute: lu[*]study_grp.lustudy_grp**

**Fullname:** Line Unit Study Group

**Attribute Description** Bit map which indicates all study groups assigned for specified Line Unit ((R)ISLU). There are 5 possible study groups; each corresponding bit in luXstudy_grp is set if the line unit is part of that study group. Here is a chart which illustrates the luXstudy_grp value when the LU (ISLU) is a member of the indicated study groups.

| luXstudy_grp value | study group(s) |
|---|---|
| 2 | 1 |
| 4 | 2 |
| 6 | 1, 2 |
| 8 | 3 |
| 10 | 1, 3 |
| 12 | 2, 3 |
| 14 | 1, 2, 3 |
| 16 | 4 |
| 18 | 1, 4 |
| 20 | 2, 4 |
| 22 | 1, 2, 4 |
| 24 | 3, 4 |
| 26 | 1, 3, 4 |
| 28 | 2, 3, 4 |
| 30 | 1, 2, 3, 4 |
| 32 | 5 |
| 34 | 1, 5 |
| 36 | 2, 5 |
| 38 | 1, 2, 5 |
| 40 | 3, 5 |
| 42 | 1, 3, 5 |
| 44 | 2, 3, 5 |

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| | |
|---|---|
| 46 | 1, 2, 3, 5 |
| 48 | 4, 5 |
| 50 | 1, 4, 5 |
| 52 | 2, 4, 5 |
| 54 | 1, 2, 4, 5 |
| 56 | 3, 4, 5 |
| 58 | 1, 3, 4, 5 |
| 60 | 2, 3, 4, 5 |
| 62 | 1, 2, 3, 4, 5 |

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# MS_TGSR

## 1. Description

This relation contains measurements for terminal groups.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_CIND |
| memory type | DBDISK |
| distribution | DO |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 2048 |
| page level | 2 |
| permutation type | un_perm |

## 3. Field Layout

```
MS_TGSR     relid = 509   DBSTATIC   DBACC_CIND  DBDISK    DO      DDBM
     im_id       DMMODULE     (ushort: 8)     <--- key
     gps_in_use  DMMCUSECNT   (ushort)
     gp_id1      DMMS_GPID    (ushort)
     gp_id2      DMMS_GPID    (ushort)
     gp_id3      DMMS_GPID    (ushort)
     gp_id4      DMMS_GPID    (ushort)
     gp_id5      DMMS_GPID    (ushort)
     gp_id6      DMMS_GPID    (ushort)
     gp_id7      DMMS_GPID    (ushort)
     gp_id8      DMMS_GPID    (ushort)
     gp_id9      DMMS_GPID    (ushort)
     gp_id10     DMMS_GPID    (ushort)
     gp_id11     DMMS_GPID    (ushort)
     gp_id12     DMMS_GPID    (ushort)
     gp_id13     DMMS_GPID    (ushort)
     gp_id14     DMMS_GPID    (ushort)
     gp_id15     DMMS_GPID    (ushort)
     gp_id16     DMMS_GPID    (ushort)
     gp_id17     DMMS_GPID    (ushort)
     gp_id18     DMMS_GPID    (ushort)
     gp_id19     DMMS_GPID    (ushort)
     gp_id20     DMMS_GPID    (ushort)
     gp_id21     DMMS_GPID    (ushort)
     gp_id22     DMMS_GPID    (ushort)
     gp_id23     DMMS_GPID    (ushort)
     gp_id24     DMMS_GPID    (ushort)
     gp_id25     DMMS_GPID    (ushort)
     gp_id26     DMMS_GPID    (ushort)
     gp_id27     DMMS_GPID    (ushort)
     gp_id28     DMMS_GPID    (ushort)
     gp_id29     DMMS_GPID    (ushort)
     gp_id30     DMMS_GPID    (ushort)
     gp_id31     DMMS_GPID    (ushort)
     gp_id32     DMMS_GPID    (ushort)
     gp_id33     DMMS_GPID    (ushort)
```

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```
gp_id34     DMMS_GPID    (ushort)
gp_id35     DMMS_GPID    (ushort)
gp_id36     DMMS_GPID    (ushort)
gp_id37     DMMS_GPID    (ushort)
gp_id38     DMMS_GPID    (ushort)
gp_id39     DMMS_GPID    (ushort)
gp_id40     DMMS_GPID    (ushort)
gp_id41     DMMS_GPID    (ushort)
gp_id42     DMMS_GPID    (ushort)
gp_id43     DMMS_GPID    (ushort)
gp_id44     DMMS_GPID    (ushort)
gp_id45     DMMS_GPID    (ushort)
gp_id46     DMMS_GPID    (ushort)
gp_id47     DMMS_GPID    (ushort)
gp_id48     DMMS_GPID    (ushort)
gp_id49     DMMS_GPID    (ushort)
gp_id50     DMMS_GPID    (ushort)
gp_id51     DMMS_GPID    (ushort)
gp_id52     DMMS_GPID    (ushort)
gp_id53     DMMS_GPID    (ushort)
gp_id54     DMMS_GPID    (ushort)
gp_id55     DMMS_GPID    (ushort)
gp_id56     DMMS_GPID    (ushort)
gp_id57     DMMS_GPID    (ushort)
gp_id58     DMMS_GPID    (ushort)
gp_id59     DMMS_GPID    (ushort)
gp_id60     DMMS_GPID    (ushort)
gp_id61     DMMS_GPID    (ushort)
gp_id62     DMMS_GPID    (ushort)
gp_id63     DMMS_GPID    (ushort)
gp_id64     DMMS_GPID    (ushort)
gp_id65     DMMS_GPID    (ushort)
gp_id66     DMMS_GPID    (ushort)
gp_id67     DMMS_GPID    (ushort)
gp_id68     DMMS_GPID    (ushort)
gp_id69     DMMS_GPID    (ushort)
gp_id70     DMMS_GPID    (ushort)
gp_id71     DMMS_GPID    (ushort)
gp_id72     DMMS_GPID    (ushort)
gp_id73     DMMS_GPID    (ushort)
gp_id74     DMMS_GPID    (ushort)
gp_id75     DMMS_GPID    (ushort)
gp_id76     DMMS_GPID    (ushort)
gp_id77     DMMS_GPID    (ushort)
gp_id78     DMMS_GPID    (ushort)
gp_id79     DMMS_GPID    (ushort)
gp_id80     DMMS_GPID    (ushort)
gp_id81     DMMS_GPID    (ushort)
gp_id82     DMMS_GPID    (ushort)
gp_id83     DMMS_GPID    (ushort)
gp_id84     DMMS_GPID    (ushort)
gp_id85     DMMS_GPID    (ushort)
gp_id86     DMMS_GPID    (ushort)
gp_id87     DMMS_GPID    (ushort)
```

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```
gp_id88     DMMS_GPID    (ushort)
gp_id89     DMMS_GPID    (ushort)
gp_id90     DMMS_GPID    (ushort)
gp_id91     DMMS_GPID    (ushort)
gp_id92     DMMS_GPID    (ushort)
gp_id93     DMMS_GPID    (ushort)
gp_id94     DMMS_GPID    (ushort)
gp_id95     DMMS_GPID    (ushort)
gp_id96     DMMS_GPID    (ushort)
gp_id97     DMMS_GPID    (ushort)
gp_id98     DMMS_GPID    (ushort)
gp_id99     DMMS_GPID    (ushort)
gp_id100    DMMS_GPID    (ushort)
gp_id101    DMMS_GPID    (ushort)
gp_id102    DMMS_GPID    (ushort)
gp_id103    DMMS_GPID    (ushort)
gp_id104    DMMS_GPID    (ushort)
gp_id105    DMMS_GPID    (ushort)
gp_id106    DMMS_GPID    (ushort)
gp_id107    DMMS_GPID    (ushort)
gp_id108    DMMS_GPID    (ushort)
gp_id109    DMMS_GPID    (ushort)
gp_id110    DMMS_GPID    (ushort)
gp_id111    DMMS_GPID    (ushort)
gp_id112    DMMS_GPID    (ushort)
gp_id113    DMMS_GPID    (ushort)
gp_id114    DMMS_GPID    (ushort)
gp_id115    DMMS_GPID    (ushort)
gp_id116    DMMS_GPID    (ushort)
gp_id117    DMMS_GPID    (ushort)
gp_id118    DMMS_GPID    (ushort)
gp_id119    DMMS_GPID    (ushort)
gp_id120    DMMS_GPID    (ushort)
gp_id121    DMMS_GPID    (ushort)
gp_id122    DMMS_GPID    (ushort)
gp_id123    DMMS_GPID    (ushort)
gp_id124    DMMS_GPID    (ushort)
gp_id125    DMMS_GPID    (ushort)
gp_id126    DMMS_GPID    (ushort)
gp_id127    DMMS_GPID    (ushort)
gp_id128    DMMS_GPID    (ushort)
gp_id129    DMMS_GPID    (ushort)
gp_id130    DMMS_GPID    (ushort)
gp_id131    DMMS_GPID    (ushort)
gp_id132    DMMS_GPID    (ushort)
gp_id133    DMMS_GPID    (ushort)
gp_id134    DMMS_GPID    (ushort)
gp_id135    DMMS_GPID    (ushort)
gp_id136    DMMS_GPID    (ushort)
gp_id137    DMMS_GPID    (ushort)
gp_id138    DMMS_GPID    (ushort)
gp_id139    DMMS_GPID    (ushort)
gp_id140    DMMS_GPID    (ushort)
gp_id141    DMMS_GPID    (ushort)
```

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```
gp_id142    DMMS_GPID    (ushort)
gp_id143    DMMS_GPID    (ushort)
gp_id144    DMMS_GPID    (ushort)
gp_id145    DMMS_GPID    (ushort)
gp_id146    DMMS_GPID    (ushort)
gp_id147    DMMS_GPID    (ushort)
gp_id148    DMMS_GPID    (ushort)
gp_id149    DMMS_GPID    (ushort)
gp_id150    DMMS_GPID    (ushort)
gp_id151    DMMS_GPID    (ushort)
gp_id152    DMMS_GPID    (ushort)
gp_id153    DMMS_GPID    (ushort)
gp_id154    DMMS_GPID    (ushort)
gp_id155    DMMS_GPID    (ushort)
gp_id156    DMMS_GPID    (ushort)
gp_id157    DMMS_GPID    (ushort)
gp_id158    DMMS_GPID    (ushort)
gp_id159    DMMS_GPID    (ushort)
gp_id160    DMMS_GPID    (ushort)
gp_id161    DMMS_GPID    (ushort)
gp_id162    DMMS_GPID    (ushort)
gp_id163    DMMS_GPID    (ushort)
gp_id164    DMMS_GPID    (ushort)
gp_id165    DMMS_GPID    (ushort)
gp_id166    DMMS_GPID    (ushort)
gp_id167    DMMS_GPID    (ushort)
gp_id168    DMMS_GPID    (ushort)
gp_id169    DMMS_GPID    (ushort)
gp_id170    DMMS_GPID    (ushort)
gp_id171    DMMS_GPID    (ushort)
gp_id172    DMMS_GPID    (ushort)
gp_id173    DMMS_GPID    (ushort)
gp_id174    DMMS_GPID    (ushort)
gp_id175    DMMS_GPID    (ushort)
gp_id176    DMMS_GPID    (ushort)
gp_id177    DMMS_GPID    (ushort)
gp_id178    DMMS_GPID    (ushort)
gp_id179    DMMS_GPID    (ushort)
gp_id180    DMMS_GPID    (ushort)
gp_id181    DMMS_GPID    (ushort)
gp_id182    DMMS_GPID    (ushort)
gp_id183    DMMS_GPID    (ushort)
gp_id184    DMMS_GPID    (ushort)
gp_id185    DMMS_GPID    (ushort)
gp_id186    DMMS_GPID    (ushort)
gp_id187    DMMS_GPID    (ushort)
gp_id188    DMMS_GPID    (ushort)
gp_id189    DMMS_GPID    (ushort)
gp_id190    DMMS_GPID    (ushort)
gp_id191    DMMS_GPID    (ushort)
gp_id192    DMMS_GPID    (ushort)
gp_id193    DMMS_GPID    (ushort)
gp_id194    DMMS_GPID    (ushort)
gp_id195    DMMS_GPID    (ushort)
```

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```
     gp_id196    DMMS_GPID    (ushort)
     gp_id197    DMMS_GPID    (ushort)
     gp_id198    DMMS_GPID    (ushort)
     gp_id199    DMMS_GPID    (ushort)
     gp_id200    DMMS_GPID    (ushort)
         User, Compacted and Stored Tuple Layout    MS_TGSR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |     im_id     |***************|           gps_in_use          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              gp_id1           |              gp_id2           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |              gp_id3           |              gp_id4           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |              gp_id5           |              gp_id6           |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                               |                               |
392 |            gp_id195           |            gp_id196           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
396 |            gp_id197           |            gp_id198           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
400 |            gp_id199           |            gp_id200           |
    |---------------+---------------+---------------+---------------|
       ( 404 bytes )
```

## 4. Population Rules for RLms_tgsr

**Relation Description:** measurements for assigned terminal groups.

Measurements for assigned terminal groups.

**Attribute: im_id**

**Fullname:** interface module identifier

**Attribute Description** module 0 only applies

**Attribute: gps_in_use**

**Fullname:** number of groups in use for all switch modules

**Attribute Description** Indicates the number of groups currently identified within the 0 tuple.

**Attribute: gp_id[*]**

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**Fullname:** group identification number

**Attribute Description** Indicates a specified group identification number which is being measured. All gp_id fields must be populated with either 0 (the default) or a valid terminal groupid. The groupid must be unique, i.e., it may appear in at most one gp_id{1-200} field.

Dependencies: None.

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# MSAPHSS

## 1. Description

This relation contains a tuple for each trunk group and multi-line hunt group in an SM that is assigned the 100 second scan (HSS) Feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 170 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |
| ks key store option | DBNO |
| trigger function | MShss_trig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
MSAPHSS     relid = 775   DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
 (a) grptype     DMHSSGTYP    (enum: 2)  <--- key, not stored
     grpnum      DMGRUPNM     (ushort: 11)  <--- key, not stored
     bcid        DMUNS16      (ushort)
     apid        DMAPSITE     (ushort: 8)
 (b) hssactive   DMBOOL       (enum: 1)
        User and Compacted Tuple Layout    MSAPHSS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |   |                       |                                   |
 0  | a |        grpnum         |***********************************|
    |---------------+---------------+---------------+---------------|
    |                               |               | |             |
 4  |              bcid             |      apid     |b|*************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     bcid        DMUNS16      (ushort)
     apid        DMAPSITE     (ushort: 8)
 (a) hssactive   DMBOOL       (enum: 1)
          Stored Tuple Layout      MSAPHSS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               | |             |
 0  |              bcid             |      apid     |a|*************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLmsaphss

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**Relation Description** Trunk and multi-line hunt group that has the 100 Second Scan.

This relation must be populated with a tuple for each trunk group and multiline hunt group that is assigned the 100 second scan (HSS) feature.

This relation is GROUP partitioned. The AM version of this relation is NEVER populated. The SM versions are populated with tuples for trunk groups and LOCAL multiline hunt groups (assigned the HSS feature) contained in those SMs.

TRUNK example:

If the HSS feature is assigned to a trunk group that has its members located on SMs 1, 3, and 5, then a tuple for this trunk group must be placed in RLmsaphss in SMs 1, 3, and 5 only.

MLHG example:

If the HSS feature is assigned to a local MLHG, a tuple must only be placed in the SM where the members reside for that local MLHG. (NOTE: Because the MLHG must be local, ALL of the members WILL reside on a single SM.)

When members of an existing trunk group or local MLHG (assigned the HSS feature) are added to an SM that previously did not contain members of that trunk group or local MLHG , then a tuple must be placed in RLmsaphss on that SM.

When the last member of an trunk group or LOCAL multiline hunt group (assigned the HSS feature) is deleted from an SM then a tuple must be deleted from RLmsaphss on that SM for that trunk group or LOCAL multiline hunt group.

The GPD 'group type' used for this relation is GPDTRKG or GPDHSS_MLHG, and the GPD 'group id' is the trunk group or multiline hunt group number.

**Attribute: grptype**

**Fullname:** Private feature/facility group type

**Attribute Description** The type of private feature/facility group. Valid group types are:
MSHSSTRKG - Trunk Group
MSHSSMLHG - Multi-line Hunt Group.

**Attribute: grpnum**

**Fullname:** Group number

**Attribute Description** Identifies the group number of the private feature/facility group within the switch.

For group type of MSHSSTRKG grpnum must be a valid trunk group.
A tuple must exist in RLrt_trkg keyed by RLmsaphss.grpnum.

For group type of MSHSSMLHG grpnum must be a valid LOCAL multiline hunt group. A tuple must exist in RLrt_mhg keyed by RLmsaphss.grpnum. If the tuple exists, the gblgrp attribute must be DBNO.

**Attribute: bcid**

**Fullname:** Business customer ID

**Attribute Description** Business Customer ID.

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Must be a tuple in RLtdassign and RLhssasgn for the given 'bcid' and 'apid'.

**Attribute: apid**

**Fullname:** Applications Processor (AP) ID

**Attribute Description** Applications Processor (AP) Identification.

```
must be a tuple in RLcmapdata with:
      RLcmapdata.site_id == apid
      and
      RLcmapdata.module != 0
```

**Attribute: hssactive**

**Fullname:** HSS active flag

**Attribute Description** This attribute indicates whether the HSS feature has been activated on this group.

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# MSDSLGDT

## 1. Description

This relation is populated with the channel group of PS_PPCG and the member_cnt which defines the number of packet pipes associated with this channel group in a SM. This information is used by the Measurements subsystem to verify the channel group is valid when the switch personnel performs an inhibit or an allow of measurements for a FRPH. Measurements also uses this relation to size the EADAS buffer based upon the member_cnt.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 15360 |
| expected tuples in relation | 400 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | EADAS |
| relation type | DBSTATIC |
| trigger function | MSfrphvl |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
MSDSLGDT    relid = 2153  DBSTATIC   DBACC_CIND  DBPRAM    LP      EADAS
     ch_group    DMPHNBR      (uchar: 7)     <--- key
     sm          DMUNS7       (ushort: 7)     <--- key
  (a) member_cnt  DMUNS5       (ushort: 5)
         User, Compacted and Stored Tuple Layout   MSDSLGDT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |              |              |   |          |                      |
  0 |   ch_group   |      sm      |***|    a     |**********************|
    |--------------+--------------+--------------+--------------|
       ( 4 bytes )
```

## 4. Population Rules for RLmsdslgdt

**Relation Description** Defines the Packet Pipe channel group data on a SM.

This relation resides in AM for providing the information on Packet Pipe channel group data for measurements.

**Attribute: ch_group**

**Fullname:** (key) Channel group

**Attribute Description** Channel group.

**Attribute: sm**

**Fullname:** (key) The SM number

**Attribute Description** The SM number which this logical PH is associated.

**Attribute: member_cnt**

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**Fullname:** Member count in this channel group

**Attribute Description** The number of packet pipes associated with this channel group for a FRPH (Frame Relay PH).

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# MSPRTLST

## 1. Description

This is the Traffic Measurement Printing List relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 394 |
| expected tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | EADAS |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
MSPRTLST    relid = 2754  DBSTATIC   DBACC_HASH  DBPRAM    LP      EADAS


     secname     DMMSSEC      (enum: 16)        <--- key
     index       DMUNS9       (ushort: 9)       <--- key
     numcomp     DMUNS5       (ushort: 5)
     comp1       DMHEX32      (ulong)
     comp2       DMHEX32      (ulong)
     comp3       DMHEX32      (ulong)
     comp4       DMHEX32      (ulong)
     comp5       DMHEX32      (ulong)
     comp6       DMHEX32      (ulong)
     comp7       DMHEX32      (ulong)
     comp8       DMHEX32      (ulong)
     comp9       DMHEX32      (ulong)
     comp10      DMHEX32      (ulong)
     comp11      DMHEX32      (ulong)
     comp12      DMHEX32      (ulong)
     comp13      DMHEX32      (ulong)
     comp14      DMHEX32      (ulong)
     comp15      DMHEX32      (ulong)
     comp16      DMHEX32      (ulong)
     comp17      DMHEX32      (ulong)
     comp18      DMHEX32      (ulong)
     comp19      DMHEX32      (ulong)
     comp20      DMHEX32      (ulong)
     comp21      DMHEX32      (ulong)
     comp22      DMHEX32      (ulong)
     comp23      DMHEX32      (ulong)
     comp24      DMHEX32      (ulong)
     comp25      DMHEX32      (ulong)
     comp26      DMHEX32      (ulong)
     comp27      DMHEX32      (ulong)
     comp28      DMHEX32      (ulong)
     comp29      DMHEX32      (ulong)
     comp30      DMHEX32      (ulong)
     comp31      DMHEX32      (ulong)
```

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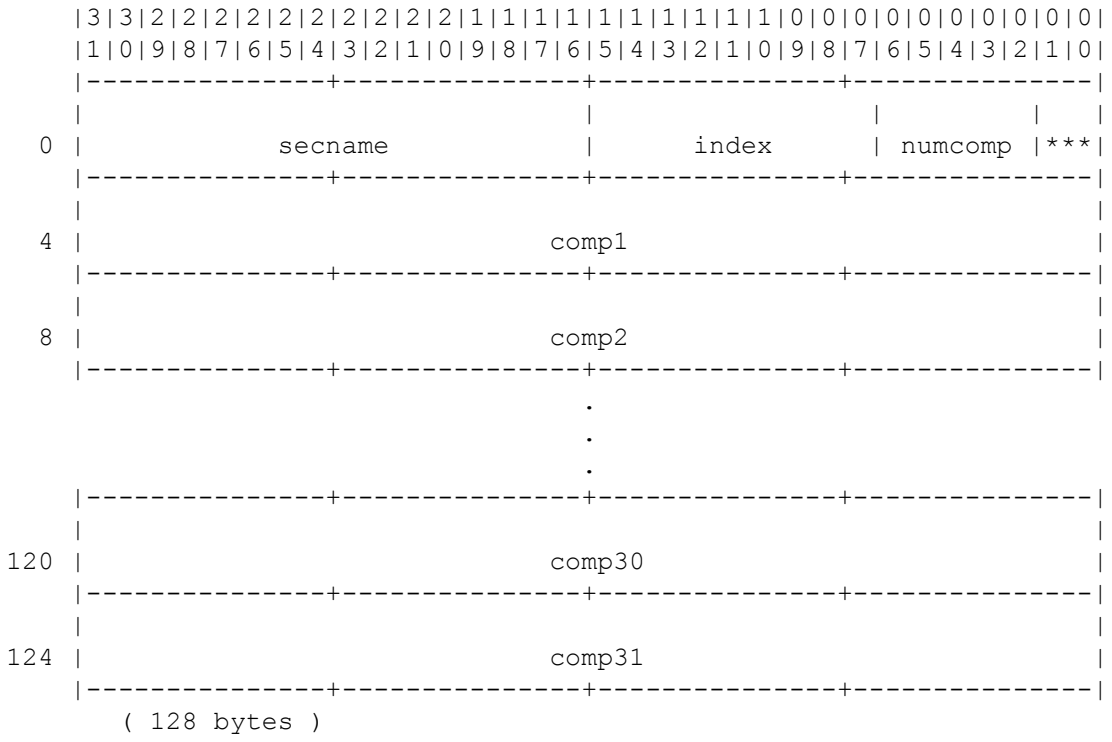
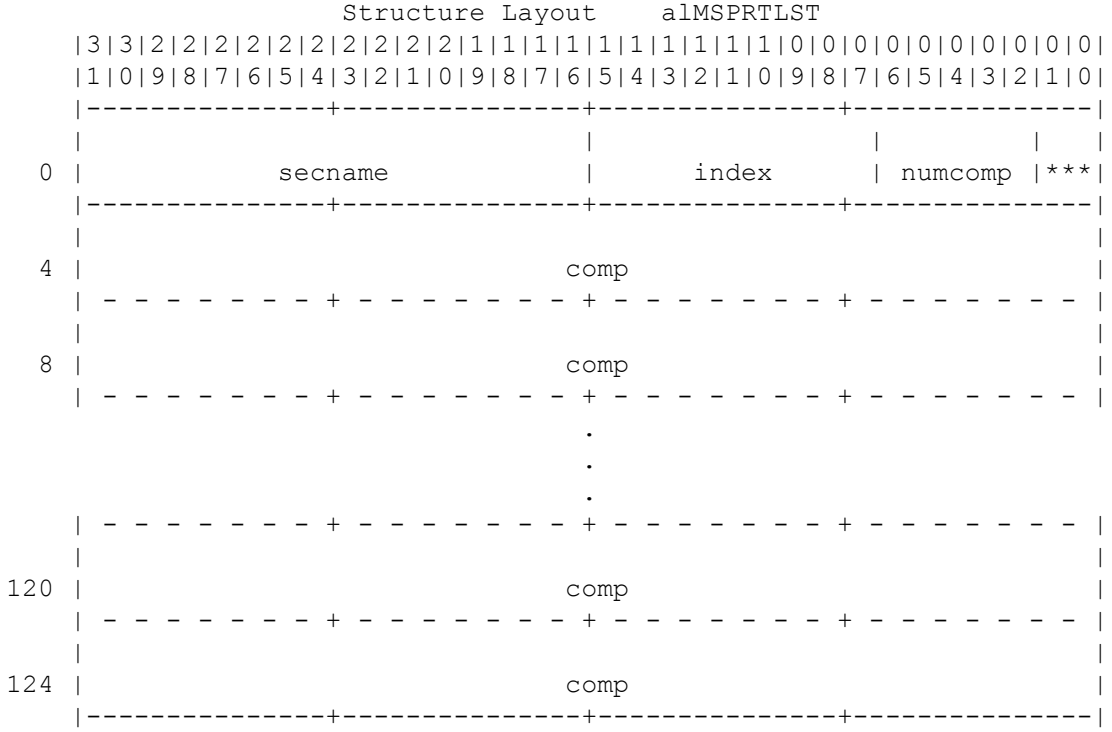
User, Compacted and Stored Tuple Layout MSPRTLST




( 128 bytes )

```
domain alMSPRTLST struct  (4 sub-attributes)
         secname     .3.fake      (enum)
         index       .4.fake      (ushort: 9)
         numcomp     .5.fake      (ushort: 5)
         comp        .6.fake      (array [ 31 ] of unsigned long )
```

Structure Layout alMSPRTLST



( 128 bytes )

## 4. Population rules for RLmsprtlst

### Relation Description

Traffic Measurement Printing List relation.

The relation, RLmsprtlst, will be used to identify the measurements components for which the measurements report will be printed on the ROP. Each measurement component within this relation must also be found in the relation RLmssellst that is, RLmssellst contains the components which have been selected for measurements collection. A measurements report can only be printed on the ROP for those components which have been selected for collection.

**Attribute:**
index
**Fullname:**
Index
**Attribute Description:**
The Index number of the tuple for a particular section. This value will be a second key into this relation. Its value will vary depending on the number of tuples currently in use. For example, for a section requiring 2 tuples to hold its component list. One tuple will have an index of 0, with 31 components populated. The second tuple will have an index of 1 with between 1 and 31 components populated.

**Attribute:**
secname
**Fullname:**
Section Name
**Attribute Description:**
The Section Name of the EADAS Buffer Section from the domain DMmssec

**Attribute:**
numcomp
**Fullname:**
Number of components
**Attribute Description:**
Indicates the number of components that are being stored per tuple for the associated section.

**Attribute:**

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comp[*]

**Fullname:**

Component X

**Attribute Description:**

This attribute will contain a component number that will be selected for collection. A group of 31 of these attributes with domain DMhex32 will exist for each tuple. A section may have several tuples associated with it. The range of these attributes will be a 32 bit word, but the values stored will be dependent on the range of the component associated with the corresponding section.

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# MSSELLST

## 1. Description

This is the Traffic Measurement Selectivity List relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 394 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFR |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
MSSELLST    relid = 2579  DBSTATIC   DBACC_CIND  DBPRAM    LRFR    NULL


     secname     DMMSSEC      (enum: 16)        <--- key
     index       DMUNS9       (ushort: 9)       <--- key
     numcomp     DMUNS5       (ushort: 5)
     comp1       DMHEX32      (ulong)
     comp2       DMHEX32      (ulong)
     comp3       DMHEX32      (ulong)
     comp4       DMHEX32      (ulong)
     comp5       DMHEX32      (ulong)
     comp6       DMHEX32      (ulong)
     comp7       DMHEX32      (ulong)
     comp8       DMHEX32      (ulong)
     comp9       DMHEX32      (ulong)
     comp10      DMHEX32      (ulong)
     comp11      DMHEX32      (ulong)
     comp12      DMHEX32      (ulong)
     comp13      DMHEX32      (ulong)
     comp14      DMHEX32      (ulong)
     comp15      DMHEX32      (ulong)
     comp16      DMHEX32      (ulong)
     comp17      DMHEX32      (ulong)
     comp18      DMHEX32      (ulong)
     comp19      DMHEX32      (ulong)
     comp20      DMHEX32      (ulong)
     comp21      DMHEX32      (ulong)
     comp22      DMHEX32      (ulong)
     comp23      DMHEX32      (ulong)
     comp24      DMHEX32      (ulong)
     comp25      DMHEX32      (ulong)
     comp26      DMHEX32      (ulong)
     comp27      DMHEX32      (ulong)
     comp28      DMHEX32      (ulong)
     comp29      DMHEX32      (ulong)
     comp30      DMHEX32      (ulong)
     comp31      DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   MSSELLST
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
```

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```
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                 |         |   |
  0 |            secname            |      index      | numcomp |***|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           comp1                               |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                           comp2                               |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                                                               |
120 |                           comp30                              |
    |---------------+---------------+---------------+---------------|
    |                                                               |
124 |                           comp31                              |
    |---------------+---------------+---------------+---------------|
       ( 128 bytes )


domain alMSSELLST struct  (4 sub-attributes)
         secname     .3.fake      (enum)
         index       .4.fake      (ushort: 9)
         numcomp     .5.fake      (ushort: 5)
         comp        .6.fake      (array [ 31 ] of unsigned long )
                    Structure Layout    alMSSELLST
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                 |         |   |
  0 |            secname            |      index      | numcomp |***|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           comp                                |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                           comp                                |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                    .
                                    .
                                    .
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
120 |                           comp                                |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
124 |                           comp                                |
    |---------------+---------------+---------------+---------------|
       ( 128 bytes )
```

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## 4. Population rules for RLmssellst

### Relation Description

Traffic Measurement Selectivity List relation.

The relation, RLmssellst, will be used to obtain the components of a particular section of the EADAS Buffer.

**Attribute:**
index
**Fullname:**
Index
**Attribute Description:**
The Index number of the tuple for a particular section. This value will be a second key into this relation. Its value will vary depending on the number of tuples currently in use. For example, for a section requiring 2 tuples to hold its component list. One tuple will have an index of 0, with 31 components populated. The second tuple will have an index of 1 with between 1 and 31 components populated.

**Attribute:**
secname
**Fullname:**
Section Name
**Attribute Description:**
The Section Name of the EADAS Buffer Section from the domain DMmssec

**Attribute:**
numcomp
**Fullname:**
Number of components
**Attribute Description:**
Indicates the number of components that are being stored per tuple for the associated section.

**Attribute:**
comp[*]
**Fullname:**
Component X
**Attribute Description:**
This attribute will contain a component number that will be selected for collection. A group of 31 of these attributes with domain DMhex32 will exist for each tuple. A section may have several tuples associated with it. The range of these attributes will be a 32 bit word, but the values stored will be dependent on the range of the component associated with the corresponding section. RC/V will

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insert and delete tuples as needed, and will bunch components together. It will make sure there are no empty spots between compX attributes by rearranging the components, and if a tuple does not have any components set, that is, numcomp=0, that tuple will be removed. RC/V will insert a new tuple
if the last tuple for a section is full, and the maximum number of tuples are not in use. This list of attributes will contain the components selected for collection. These components will be stored contiguously by RC/V, and thus when any new component has to be inserted, it will go on the end. If not all the components in a tuple are used, the unused attributes which will be at the end of the tuple will be set to 0xffffffff.

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# MSSMSEL

## 1. Description

The RLmssmsel relation is used in conjunction with the RLmsselctl, RLmsamsel, and RLmssellst relations for the purpose of selecting traffic measurements reports for collection in the C interval.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 213 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | DBNO |

## 3. Field Layout

```
MSSMSEL     relid = 2352  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     index       DMUNS9       (ushort: 9)     <--- key, not stored
     selbmap1    DMHEX32      (ulong)
     selbmap2    DMHEX32      (ulong)
     selbmap3    DMHEX32      (ulong)
     selbmap4    DMHEX32      (ulong)
         User and Compacted Tuple Layout    MSSMSEL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                 |                                             |
  0 |      index      |*********************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            selbmap1                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                            selbmap2                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                            selbmap3                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                            selbmap4                           |
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
     selbmap1    DMHEX32      (ulong)
     selbmap2    DMHEX32      (ulong)
     selbmap3    DMHEX32      (ulong)
     selbmap4    DMHEX32      (ulong)
           Stored Tuple Layout      MSSMSEL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                            selbmap1                           |
    |---------------+---------------+---------------+---------------|
```

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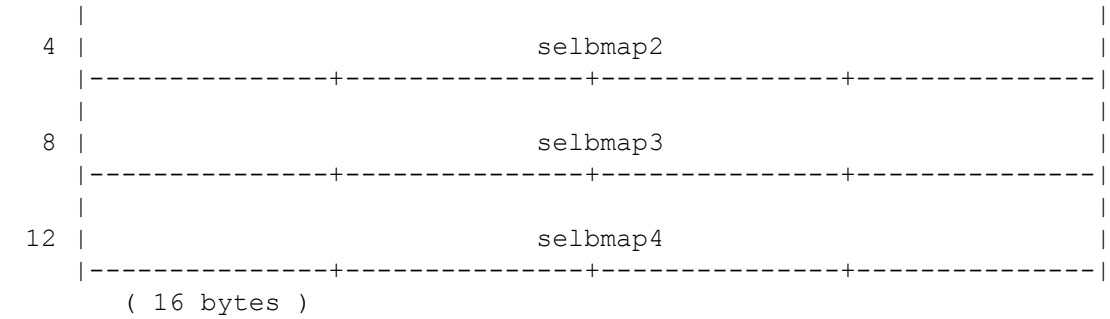


## 4. Population Rules for RLmssmsel

There are no population rules for this relation.

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# MTB_COMP

## 1. Description

This relation contains the metallic compensation values held for each line unit (LU, (R)ISLU(2), IDCU, (*)AIU) to allow for accurate measurements on lines connected to the unit.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 126 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| padding indicator | unpadded |
| permutation type | perm |

## 3. Field Layout

```
MTB_COMP    relid = 2175  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


    loopres     DMSHORT      (short)
    ab2ecap     DMSHORT      (short)
    a2bcap      DMSHORT      (short)
    unit_no     DMUNITNO     (ushort: 8)       <--- key
    unittype    DMUNITTYPE   (enum: 7) <--- key
    leaka2e     DMLONG       (long)
    leakb2e     DMLONG       (long)
    leaka2b     DMLONG       (long)
    freq_loss   DMLONG       (long)
    spare1      DMLONG       (long)
    spare2      DMLONG       (long)
    spare3      DMLONG       (long)
    spare4      DMLONG       (long)
        User, Compacted and Stored Tuple Layout   MTB_COMP
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            loopres            |            ab2ecap            |
   |---------------+---------------+---------------+---------------|
   |                               |               |             | |
 4 |             a2bcap            |    unit_no    |   unittype  |*|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 8 |                           leaka2e                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
12 |                           leakb2e                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
16 |                           leaka2b                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |                          freq_loss                            |
```

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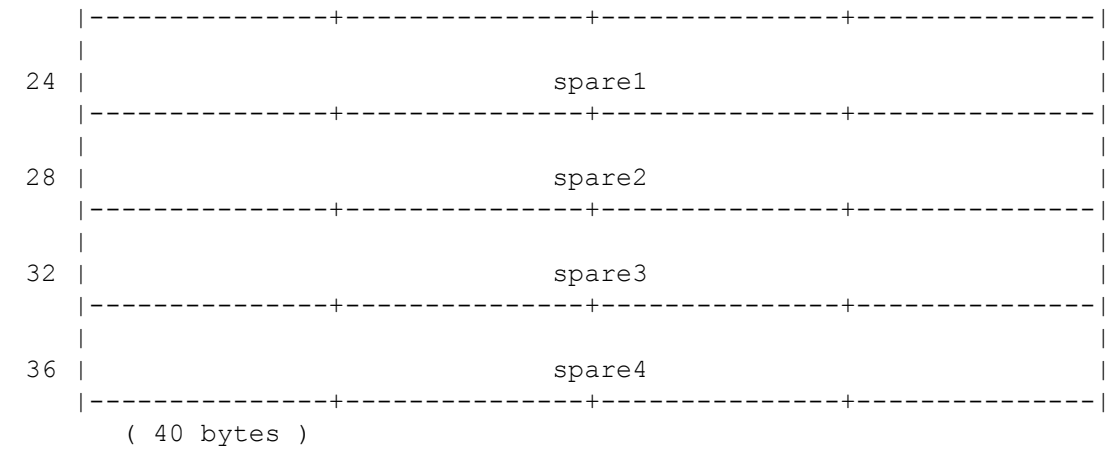


## 4. Population rules for RLmtb_comp

### Relation Description

Metallic testing compensation values for line units

This relation holds the metallic testing compensation values for lines. This is used during SLIM(2)/Test AP testing to remove (compensate) resistance and capacitance due to the metallic connections and line unit so as to leave a true measurement of the subscribers line and instrument.

**Attribute:**
unittype

**Fullname:**
Line unit type

**Attribute Description:**
This attribute uniquely identifies a unit type

**Attribute:**
loopres

**Fullname:**
Loop resistance in Ohms

**Attribute Description:**
This attribute is the loop resistance compensation used in calculations by SLIM(2)/Test AP to measure a subscribers line and instrument.

**Attribute:**
ab2ecap

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**Fullname:**
tip/ring leg to ground capacitance in nanofarads (nF)

**Attribute Description:**
This attribute is the a or b leg to ground capacitance compensation used in calculations by SLIM(2)/Test AP to measure a subscribers line and instrument.

**Attribute:**
a2bcap

**Fullname:**
tip to ring capacitance in nanofarads (nF)

**Attribute Description:**
This attribute is the tip leg to ring leg capacitance compensation value used in calculations by SLIM(2)/Test AP to measure a subscribers line and instrument.

**Attribute:**
leaka2e

**Fullname:**
tip leg to ground leakage resistance value in kilo-ohms

**Attribute Description:**
This attribute is the tip leg to ground compensation value used in calculations by SLIM(2)/Test AP to measure a subscribers line.

**Attribute:**
leakb2e

**Fullname:**
ring leg to ground leakage resistance value in kilo-ohms

**Attribute Description:**
This attribute is the ring leg to ground compensation value used in calculations by SLIM(2)/Test AP to measure a subscribers line.

**Attribute:**
leaka2b

**Fullname:**
tip leg to ring leg leakage resistance value in kilo-ohms

**Attribute Description:**
This attribute is the tip leg to ring leg compensation value

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used in calculations by SLIM(2)/Test AP to measure a subscribers line.

**Attribute:**
freq_loss

**Fullname:**
Frequency loss

**Attribute Description:**
This attribute is used to compensate for frequency loss at 1kHz which occurs during DTMF measurements.

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# MTBDCTU

## 1. Description

Specifies the Metallic Test Busses (MTB)s that are associated with (connected to) a given DCTU port circuit.

When a PGTC port is wired on the MTB between the DCTU and the MMSU, the 'lodist_pt' field contains the port name of the distribute point which is connected to the HIGH valued resistors controlling the low sleeve current toward the PGTC. Otherwise the 'lodist_pt' is set to GLNULPORT.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 64 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
MTBDCTU     relid = 27    DBSTATIC   DBACC_HASH  DBPRAM    LR      NULL
     dctuid      DMGCIRCUIT   (struct)     <--- key
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
     dctu_idx    DMCKTINDX    (ushort)
     lodist_pt   DMPORT       (ushort)
 (a) msu_no      DMUNS1       (ushort: 1)
     dctumtb     DMGCIRCUIT   (struct)
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout    MTBDCTU
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+===========  dctuid ===========+===============|
    |                               |                |               |
  0 |             circuit           |***************|     module    |
    |===============+===============+===============+===============|
    |                               |                               |
  4 |             dctu_idx          |           lodist_pt           |
    |---------------+---------------+---------------+---------------|
    | |                                                             |
  8 |a|*************************************************************|
    |===============+=========== dctumtb ===========+===============|
    |                               |                |               |
 12 |             circuit           |***************|     module    |
    |===============+===============+===============+===============|
       ( 16 bytes )
```

## 4. Population Rules for RLmtbdctu

**Relation Description** MTB associated with DCTU

Specifies the metallic test busses (MTBs) that are associated with (connected to) a given DCTU port circuit.

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This relation specifies the directly connected test unit (DCTU) port circuit (DCTUPORT) that is physically connected to a MTB in a metallic service unit (MSU). The MTBs connect to the DCTU base pack, SN423, which then uses the EAN (equal access network) to connect to the PMU packs, SM248. MTBs are physical tip and ring pairs that are part of the metallic access (MA) circuit pack, TN138, in a modular MSU (MMSU). Besides DCTUPORTs, MTBs connect to analog line units, analog trunk units, Pair Gain Test Controller circuits, and Test Bus Controller Units.

This data is used by Terminal Maintenance operational software when making a DCTU metallic connection. This relation resides currently in the AM. The DCTU and the MSU(s) that it connects to may or may not be in the same SM. Additional information pertaining to DCTUPORTs or MTBs may be found in population rules for RLcktdata.

In general, the DCTUPORTs should be distributed across MSU service groups in the office. There are no other engineering rules in this regard and no internal cross checks required to support this requirement.

DCTUPORTs must be grown in groups of 4, which correspond to the number of PORTs per PMU.

The maximum tuple size for this relation (currently 64 tuples) should be enough to handle two fully equipped DCTUs in a *5ESS*®-2000 switch HOST processing entity of up to 120,000 lines (24 DCTUPORTs) and up to ten (10) RSMs (ORMs or TRMs) each connecting a minimally equipped DCTU (4 DCTUPORTs). More DCTUs in RSMs (ORMs or TRMs) can be supported either by increasing maximum tuple size or decreasing the number of DCTUPORTs supporting the HOST *5ESS*®-2000 switch. Since a *5ESS*®-2000 switch can support 192 SMs with one DCTU in each SM, the theoretical maximum number of tuples could be:

```
      ( 12 DCTUPORTs/DCTU ) x (1 DCTU/SM) x (192 SM/office)
                              = 2,304 DCTUPORTs/office
```

OPTIONAL EQUIPMENT:

When a DCTU is used to test a line connected to a Universal-SLC system, a Pair Gain Test Controller (PGTC) is required to achieve metallic bypass.

There are 3 configurations for the PGTC:

(1) The PGTC is direct wired on a specific No Test Trunk (located between the testing center and the NTT). The PGTC is controlled via sleeve lead control provided from the testing center over the No Test Trunk sleeve and ground leads.

No ODD is required to support this configuration and the switch software is not even aware of the existence and use of the PGTC in this manner. It is described here for completeness in documenting PGTC configurations.

(2) The PGTC is connected to a pair of MTBs (the first MTB provides the connection toward the DCTU, the second toward the line under test). The PGTC is switched into the connection only when required and is a shared resource used whenever a DCTU connects to a Universal-SLC system.

Distribute points under *5ESS*®-2000 switch software control, regulate sleeve lead current to control the PGTC (~12 ma for low current and ~28 ma for high). These distribute points must be equipped sequentially on the same distribute pack (which must be in the same SM as the Metallic Access pack which terminates the MTB of the PGTC).

Since the PGTC is not directly associated with any specific RLMTBDCTU tuple, the 'lodist_pt' field is populated in the relation 'RLPGTC'. Again, this description is only included for completeness of configurations.

(3) The PGTC is direct wired to the DCTU MTB between the DCTU and the MMSU. The PGTC is only activated for DCTU connections to Universal-SLC system lines.

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Distribute points control the PGTC and have the same assignment restrictions (sequential points and location relative to MTB) as the previous configuration 2.

In this configuration, the PGTC is associated with one (and only one) DCTU MTB therefore there is no need for an RLPGTC tuple. Instead, the RLMTBDCTU tuple for that MTB will contain the port name of the low distribute point in the attribute 'lodist_pt'. The value of 'lodist_pt' should never be GLNULPORT in this case. The high distribute point port name is derived from the low distribute point port name using the following algorithm: Locate the RLFC_PORTTYP tuple for the low distribute point port. Increment the value of the 'port_indx' attribute of that tuple to give the port index of the 'cktname' attribute from RLFC_PORTTYP (which is the circuit name of the DIST pack) and the calculated port index of the high distribute point. The 'port' attribute of the RLCKT_PORT relation is the port name of the high distribute point.

All 3 configurations can exist in the same office simultaneously.

**Attribute: dctuid**

**Fullname:** global circuit name of DCTU port circuit

**Attribute Description** global circuit name of DCTU port circuit.

**Attribute: dctuid.circuit**

**Fullname:** DCTUPORT circuit name

**Attribute Description** DCTUPORT circuit name.

**Attribute: dctuid.module**

**Fullname:** SM where DCTUPORT circuit is connected

**Attribute Description** SM where DCTUPORT circuit is connected

**Attribute: dctumtb**

**Fullname:** global MTB circuit name from DCTU port to MSU

**Attribute Description** MTB that connects DCTU.

**Attribute: dctumtb.circuit**

**Fullname:** MTB circuit name

**Attribute Description** MTB circuit name.

**Attribute: dctumtb.module**

**Fullname:** SM where MTB resides

**Attribute Description** SM where MTB resides.

**Attribute: dctu_idx**

**Fullname:** circuit index of DCTU's MTB

**Attribute Description** Circuit index of the MTB used by the DCTU

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**Attribute: lodist_pt**

**Fullname:** MSU distribute point wired to HIGH resistor value for PGTC

**Attribute Description** The Distribute (DIST) pack that terminates this distribute point must exist in the same MMSU as the MA pack that terminates the DCTU MTB. PC software will construct the portname for the associated 'hidist_pt' based on the requirement that the distribute points are assigned sequentially and are on the same DIST pack.

The high distribute port name is obtained by incrementing the circuit index for 'lodist_pt' found in RLfc_porttyp and then reading RLckt_port using the incremented port index and the 'lodist_pt' circuit name found in RLfc_porttyp.

This field will have an entry in rlFC_PORTTYP with 'servclass' set to TMDSTPGTC.

If there is no PGTC wired to the DCTU MTB, then the value for 'lodist_pt' must be GLNULPORT.

**Attribute: msu_no**

**Fullname:** MSU unit number of DCTU MTB

**Attribute Description** Unit number of the MSU from which the DCTU's MTB originates

**defines:**
"db/DMport.h"

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# MTBFE

## 1. Description

This is the metallic test bus far end relation. For every tuple in the RLcktdata relation for MTB (ckttype = PCMSMTB), there must be a corresponding tuple in this relation. Each idle tuple should be part of the DBILDMISC list except for MTB's with an fetype of PCPGTCIN, they should be on the DBIDLEPGTC list.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 720 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | PCmtbfetrg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
MTBFE       relid = 201   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL


     mtbcktname  DMCIRCUIT    (ushort)  <--- key
     fenumber    DMUNS6       (ushort: 6)
     fetype      DMMTBFETYP   (enum: 4)
     fecktname   DMGCIRCUIT   (struct)
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout  MTBFE
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |           |   |       |       |
  0 |           mtbcktname          |  fenumber |***| fetype|*******|
    |===============+========== fecktname ==========+===============|
    |                               |                               |
  4 |             circuit           |***************|     module    |
    |===============+===============+===============+===============|
       ( 8 bytes )
```

## 4. Population rules for RLmtbfe

### Relation Description

```
        Metallic test bus far end

         Metallic test bus far end.

       "   RLmtbfe (MTB Far End Equipment For SLC(R) 96 or SLC(R) 5)


        DESCRIPTION:
```

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```
    Defines the SLC(R) 96/SLC(R) 5 equipment at the far
    end of  the MTB. This data resides in the IM
    containing the  MSU serving this MTB.

QUANTITY OF TUPLES:

        1 tuple per MTB

TUPLE SEMANTICS:

        mtbcktname (KEY) - MTB circuit name
        fetype - DBPCS96
        fecktname.circuit - RT name from RLmtbs96
                    (The first RT in the list is used here.
                     If this RT is degrown, the next RT in the
                     list is substituted here.)
                    or GLNULCKT, in the case where the MTB
                    has been assigned to a TBCU, but an RT
                    has not yet been assigned to MTB.
        fecktname.module - SM number serving far end equipment or 0
                    if no RT yet assigned to MTB on TBCU.
        fenumber - 0 (Trunk & Line Work Station ID,
                      not applicable to SLC(R) 96 or SLC(R) 5)

*********************************************************************/
*********************************************************************

                RLmtbfe (MTB Far End Equipment For PGTC Input)



DESCRIPTION:

Defines the Pair Gain Test Controller (PGTC) equipment at the far
end of the MTB. This data resides in the IM containing the MSU
serving this MTB. This MTB is connected to the input of a PGTC
circuit.


QUANTITY OF TUPLES:

        1 tuple per MTB connected to input of PGTC circuit

TUPLE SEMANTICS:

        mtbcktname (KEY) - MTB circuit name
        fetype - PCPGTCIN
        fecktname.circuit - 0
        fecktname.module - 0
        fenumber - 0 (Trunk & Line Work Station ID,
                      not applicable to PTC)

*********************************************************************
*********************************************************************
```

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RLmtbfe (MTB Far End Equipment For PGTC Output)

DESCRIPTION:

Defines the Pair Gain Test Controller (PGTC) equipment at the far end of the MTB. This data resides in the IM containing the MSU serving this MTB. This MTB is connected to the output of a PGTC circuit.

QUANTITY OF TUPLES:

1 tuple per MTB connected to output of PGTC circuit

TUPLE SEMANTICS:

mtbcktname (KEY) - MTB circuit name
fetype - PCPGTCOUT
fecktname.circuit - 0
fecktname.module - 0
fenumber - 0 (Trunk & Line Work Station ID,
not applicable to PTC)

**********/

**********

RLmtbfe (MTB Far End Equipment For DCTU Port Circuit)

DESCRIPTION:

Defines the Directly Connected Test Unit (DCTU) port circuit (DCTUPORT) connected at the far end of the MTB. This data resides in the SM containing the MSU serving this MTB but not necessarily the SM serving the DCTUPORT. The DCTU and the MSU(s) that it connects to may or may not be in the same SM. The information contained in this relation RLMTBFE is not in any way used for operational use of the DCTU. Additional information pertaining to the DCTUPORT may be found in population rules for RLcktdata.
*

QUANTITY OF TUPLES:

1 tuple per MTB connected to a DCTU port circuit

TUPLE SEMANTICS:

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```
          mtbcktname (KEY)  - MTB circuit name
          fetype            - PCDCTU
          fecktname.circuit - DCTU port circuit name
          fecktname.module  - SM where DCTU port circuit resides
          fenumber          - 0
*********************************************************************/

*********************************************************************
```

RLmtbfe (MTB Far End Equipment For ISLU/RISLU line units)

DESCRIPTION:

Defines the Integrated Services Line Unit (ISLU) or Remote ISLU (RISLU) Metallic Access Network (MAN) Board connected at the far end of the MTB.

This data resides in the SM containing the MSU serving this MTB but not necessarily the SM serving the ISLU/RISLU. The ISLU/RISLU and the MSU that it connects to may or may not be in the same SM. Note that MTBs to ISLU/RISLUs are optional, and a tuple in this relation will only exist for an ISLU/RISLU if and only if there exists an MTB to the ISLU/RISLU.

Note that the ISLU/RISLU configuration is somewhat unique in that each MTB can connect to one or two ISLU/RISLU MAN boards, one board in each service group of this ISLU/RISLU if there are Z-cards or one board in SG 0 if there are only U-cards. There are NO MAN boards required in SG 1 if there are only U-cards. (There can be a maximum of 4 MAN boards per ISLU/RISLU, 2 in each service group. ) The MAN Board listed in this relation is an equipped board in the ISLU/RISLU which is connected to the MTB.

PICB # - the PICB (relative to the SM) connected to the ISLU/RISLU. This PICB is for the service group of the ISLU/RISLU which contains the MAN PACK connected to the MTB. For the case where two MAN boards are connected to the MTB, chose the MAN board/SG using the following diagram.

B (Board) - 'B' is 0 or 1 and should be an equipped MAN board in the service group of the ISLU/RISLU.

This table indicates which Man Board is populated for each for the MTBs (MTB0 and MTB1).

Equippage of MAN for MTB0

| SG Board 0 0 | SG Board 1 1 | MAN Board to use in MTBFE |
|---|---|---|
| X | | MAN00 |
| | X | MAN11 |

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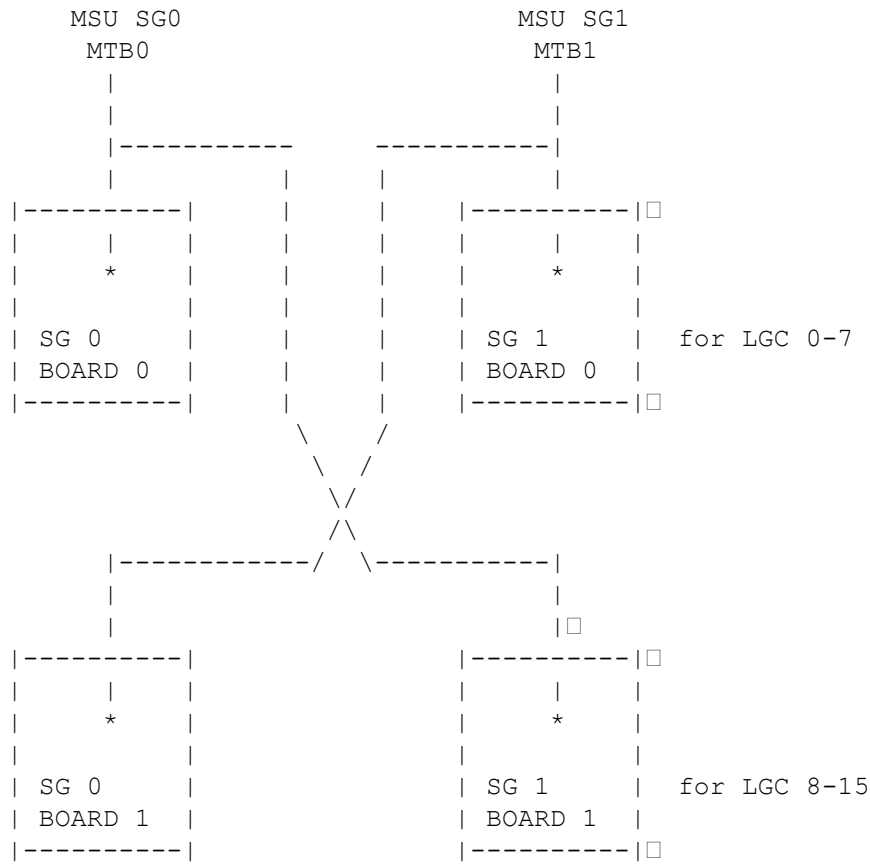
```
   X              X            MAN00

  Equippage of MAN for MTB1
  SG Board       SG Board       MAN Board
   1 0            0 1           to use in MTBFE
  -----          -----          ------
   X                            MAN10
                  X             MAN01
   X              X             MAN10
```




QUANTITY OF TUPLES:

1 tuple per MTB connected to an ISLU/RISLU. ISLU/RISLUs without Metallic access networks (or with them but without MTBs connected to them) will have no tuples (since they have no MTB).

TUPLE SEMANTICS:

```
mtbcktname (KEY)  - MTB circuit name
fetype            - PCISLU
fecktname.circuit - MAN Board connected to MTB as
                    indicated in the previous diagram.
fecktname.module  - SM where the ISLU/RISLU resides.
fenumber          - 0 (This only applies to TLWS
```

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related MTBs)
"

**Attribute:**
mtbcktname
**Fullname:**
MTB circuit name.
**Attribute Description:**
This attribute should contain the same data as whats in the key name field in the Rlcktdata relation.

**Attribute:**
fetype
**Fullname:**
Far end type.
**Attribute Description:**
Far end type. The far end type can be the following depending on what the particular MTB is hooked up to:

```
PCUNASGND - if the MTB is shorted.
PCLU      - if the MTB is connected to a line unit.
PCLTDTST  - if the MTB is connected to a local test desk
PCTLWSDCJ - if the MTB is connected to a trunk line
            work station.
DBPCS96   - if the MTB is connected to a SLC(R) 96,
            SLC(R) 5 or just to a TBCU, with no RT yet
            assigned.
PCDCTU    - if the MTB is connected to a DCTU.
PCDRPAIR  - must be this type if the ckt_indx ends
            in 0xf (RLcktdata.ckt_indx{0:3} = 0xf): that
            is, bus 15 on every metallic access pack
            is a dedicated diode/resister pair for
            diagnostic use.
PCPGTCIN  - if the MTB is connected to the input
            of the Pair Gain Test Controller
            (PGTC) circuit.
PCPGTCOUT - if the MTB is connected to the output
            of the Pair Gain Test Controller
            (PGTC) circuit.
PCAIU     - if the MTB is connected to an Access
            Interface Unit ((*)AIU).
```

**Attribute:**
fecktname
**Fullname:**
Far end circuit name.
**Attribute Description:**
This attribute represents the far end circuit name with the following exceptions:

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If fetype is PCUNASGND then this field is 0.
If fetype is PCDRPAIR then this field is 0.
if fetype is PCPGTCIN then this field is 0.
if fetype is PCPGTCOUT then this field is 0.
if fetype is PCISLU then (see the diagram in
the general section).
if fetype is DBPCS96 and MTB is connected only to
the TBCU with no RT yet assigned to this MTB, then
fecktname is (GLNULCKT,0).

If fetype is PCAIU then this field is set to the circuit
name of the (*)AIU COMDAC circuit that this MTB is
connected to.

**Attribute:**
fecktname.circuit
**Fullname:**
circuit.
**Attribute Description:**
circuit.

**Attribute:**
fecktname.module
**Fullname:**
module.
**Attribute Description:**
This attribute is the IM number which contains the
far end circuit, except when PCUNASGND = 0.
If fetype is PCPGTCIN or PCPGTCOUT, this attribute
is 0.

See the previous exception for DBPCS96.

FOR MMRSM:
1) The far end circuit IM specified should only be a RSM
which is a member of the same MMRSM site (clid) as this IM
which contains the MSU serving this MTB.

2) The far end circuit IM specified can only be different
from this IM which contains the MSU serving this MTB if
this IM is specified as the Common Resource RSM for
this MMRSM site, that is, the attribute rm_mtb is equal
to [this IM] in relation RLclidat for this MMRSM site
(clid).

3) If the far end circuit IM specified is different from
this IM which contains the MSU serving this MTB, and,
rm_mtb is equal to 0 in RLclidat for this MMRSM site,
THEN,
if in relation RLclidat rm_alm_in=0, rm_alm_out=0, rm_clk=0

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and rm_cnt >1, the attribute rm_mtb in RLclidat is set
to [this IM](containing the MSU serving this MTB) which
will define this IM as the Common Resource RSM and so
allowing a different far end circuit IM to be specified
for this attribute (fecktname.module).
ELSE,
if any of rm_alm_in, rm_alm_out or rm_clk in RLclidat are
not equal to 0 but are equal to this IM (containing the
MSU serving this MTB) and rm_cnt >1, then this is the
defined Common Resource RSM for this MMRSM site and the
attribute rm_mtb in RLclidat for this MMRSM site is
set to [this IM](which contains the MSU serving this MTB)
and so allowing a different far end circuit IM to be
specified for this attribute (fecktname.module).

See RLclidat population rules for further clarification on
MMRSM site related option restrictions.

FOR ORM/TRM co-located site:
The far end circuit IM specified should only be
ORM/TRM which is a member of the same site as this IM
which contains the MSU serving this MTB.
COMMENT: This will not be enforced by RC and ODA.

**Attribute:**
fenumber
**Fullname:**
Far end TLWS number.
**Attribute Description:**
Far end TLWS number, otherwise = 0:

**Defines:**
"db/DMcircuit.h"

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# MTBS96

## 1. Description

Metallic test busses to a Subscriber Loop Carrier system 96 *(SLC*® 96).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | MPH |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
MTBS96      relid = 202   DBSTATIC   DBACC_HASH  DBPRAM    LP      MPH
     s96cktname  DMGCIRCUIT   (struct)  <--- key
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
     mtbput      DMGCIRCUIT   (struct)
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
     sid_dp      DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout MTBS96
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+=========  s96cktname =========+===============|
    |                                 |                |               |
  0 |             circuit             |****************|     module    |
    |===============+===========  mtbput ===========+===============|
    |                                 |                |               |
  4 |             circuit             |****************|     module    |
    |===============+===========  sid_dp ===========+===============|
    |                                 |                |               |
  8 |              member             |****************|     module    |
    |===============+===============+================+===============|
       ( 12 bytes )
```

## 4. Population Rules for RLmtbs96

**Relation Description** Metallic Test Busses to a subscriber loop carrier system 96.

Metallic Test Bus to *SLC*® 96 Remote Terminal Translation.

**Attribute: s96cktname**

**Fullname:** *SLC*® 96 circuit name.

**Attribute Description** Circuit Name.

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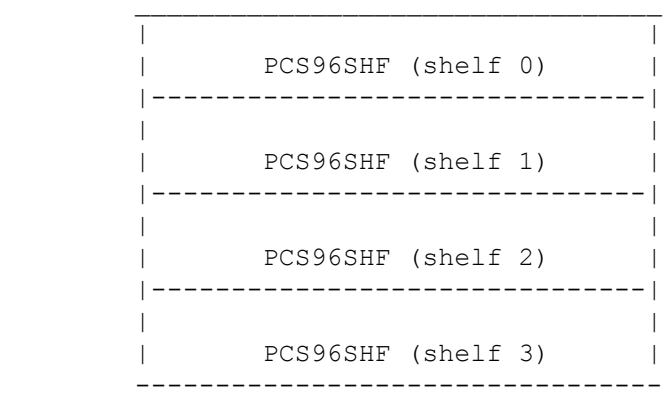
**Attribute: s96cktname.circuit**

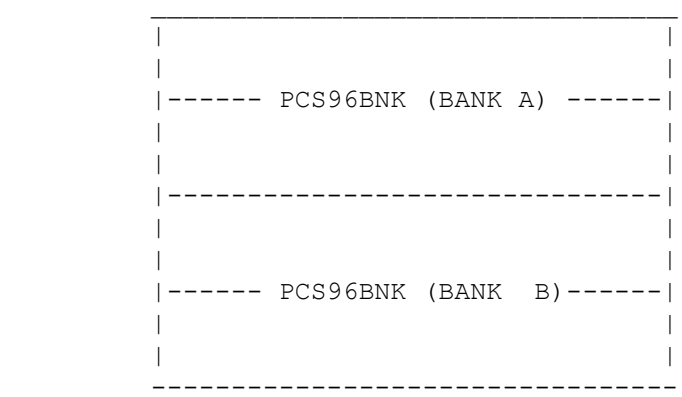
**Fullname:** circuit.

**Attribute Description** This is the circuit name of the integrated *SLC*® RT that has metallic access from the *5ESS*®-2000 switch through an MTB. For MODE 1 RTs this is the shelf 0 circuit name, for MODE 2 RTs this is the BANK A circuit name as shown here.

MODE 1 RT:




MODE 2 RT:




**Attribute: s96cktname.module**

**Fullname:** module.

**Attribute Description** IM number serving this RT.

**Attribute: mtbput**

**Fullname:** MTB to the *SLC*® port under test.

**Attribute Description** MTB to the *SLC*® port under test.

**Attribute: mtbput.circuit**

**Fullname:** circuit.

**Attribute Description** MTB circuit name serving this RT.

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**Attribute: mtbput.module**

**Fullname:** module.

**Attribute Description** IM number containing MTB.

**Attribute: sid_dp**

**Fullname:** *SLC*® identification number to distribute points.

**Attribute Description** Remote terminals (RT) map to the associated distribute points.

**Attribute: sid_dp.member**

**Fullname:** member.

**Attribute Description** member.

**Attribute: sid_dp.module**

**Fullname:** module.

**Attribute Description** module.

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# MTBTST

## 1. Description

Metallic test bussed for the local test desk test trunk.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | MPH |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
MTBTST      relid = 203   DBSTATIC   DBACC_HASH  DBPRAM    LP      MPH
     tstid       DMGPORT      (struct)  <--- key
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     mtb0_idx    DMCKTINDX    (ushort)
     mtb1_idx    DMCKTINDX    (ushort)
 (a) mtb0_msu    DMUNS1       (ushort: 1)
 (b) mtb1_msu    DMUNS1       (ushort: 1)
     mtb0tec     DMGCIRCUIT   (struct)
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
     mtb1tec     DMGCIRCUIT   (struct)
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout MTBTST
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============ tstid ============+===============|
    |                               |                |               |
  0 |              member           |****************|     module    |
    |===============+===============+================+===============|
    |                               |                                |
  4 |             mtb0_idx          |             mtb1_idx           |
    |---------------+---------------+----------------+---------------|
    | | |                                                            |
  8 |a|b|************************************************************|
    |===============+=========== mtb0tec ===========+===============|
    |                               |                |               |
 12 |             circuit           |****************|     module    |
    |===============+=========== mtb1tec ===========+===============|
    |                               |                |               |
 16 |             circuit           |****************|     module    |
    |===============+===============+================+===============|
       ( 20 bytes )
```

## 4. Population Rules for RLmtbtst

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**Relation Description** Metallic test bussed for the local test desk test trunk.

This relation specifies the two metallic test bus (MTB) circuits which connect each local test desk (LTD) test trunk (incoming or outgoing) to the metallic service unit (MSU) or modular MSU (MMSU). LTD test trunks provide the interface to external testing systems (LTD, mechanized loop testing [MLT], Fortel, etc.) for metallic loop testing of lines.

**Attribute: tstid**

**Fullname:** Port name of the test trunk.

**Attribute Description** Tuples must appear in the following relations:

```
if RLfc_porttyp.servclass = TM_TSTK
        RLrc_trk     -   keyed on trunk group and member
        RLrt_trkg    -   keyed on trunk group
        RLrctgrprk   -   keyed on trunk group
        RLgroup_port -   keyed on trunk group and member
        RLpggpmap    -   keyed on trunk port
        RLfc_porttyp -   keyed on trunk port (servclass = TM_TSTK)
        RLfc_trunk   -   keyed on trunk port
```

**Attribute: tstid.member**

**Fullname:** Member

**Attribute Description** None.

**Attribute: tstid.module**

**Fullname:** Module

**Attribute Description** None.

**Attribute: mtb0tec**

**Fullname:** MTB0 from the test equipment

**Attribute Description** For each tuple in this relation, two corresponding tuples must appear in the SM relation RLmtbfe, keyed on the names of the LTD trunk MTB circuits.

**Attribute: mtb0tec.circuit**

**Fullname:** Circuit name

**Attribute Description** None.

**Attribute: mtb0tec.module**

**Fullname:** Module

**Attribute Description** None.

**Attribute: mtb1tec**

**Fullname:** MTB1 from the test equipment.

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**Attribute Description** None.

**Attribute: mtb1tec.circuit**

**Fullname:** Circuit name

**Attribute Description** None.

**Attribute: mtb1tec.module**

**Fullname:** Module name

**Attribute Description** None.

**Attribute: mtb0_idx**

**Fullname:** Circuit index of MTB zero.

**Attribute Description** Circuit index of the MTB on service group zero.

**Attribute: mtb1_idx**

**Fullname:** circuit index of MTB one.

**Attribute Description** Circuit index of the MTB on service group one.

**Attribute: mtb0_msu**

**Fullname:** MSU unit number of MTB zero.

**Attribute Description** The unit number of the MSU from which MTB zero originates.

**Attribute: mtb1_msu**

**Fullname:** MSU unit number of MTB one.

**Attribute Description** The unit number of the MSU from which MTB one originates.

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# MULTIFAC

## 1. Description

This relation maps a single high-level circuit to a group of subtending low-level facilities.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 108 |
| expected tuples in relation | 36 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
MULTIFAC    relid = 2744  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     multifac    DMCIRCUIT    (ushort)     <--- key
     lowfac00    DMCIRCUIT    (ushort)
     lowfac01    DMCIRCUIT    (ushort)
     lowfac02    DMCIRCUIT    (ushort)
     lowfac03    DMCIRCUIT    (ushort)
     lowfac04    DMCIRCUIT    (ushort)
     lowfac05    DMCIRCUIT    (ushort)
     lowfac06    DMCIRCUIT    (ushort)
     lowfac07    DMCIRCUIT    (ushort)
     lowfac08    DMCIRCUIT    (ushort)
     lowfac09    DMCIRCUIT    (ushort)
     lowfac10    DMCIRCUIT    (ushort)
     lowfac11    DMCIRCUIT    (ushort)
     lowfac12    DMCIRCUIT    (ushort)
     lowfac13    DMCIRCUIT    (ushort)
     lowfac14    DMCIRCUIT    (ushort)
     lowfac15    DMCIRCUIT    (ushort)
     lowfac16    DMCIRCUIT    (ushort)
     lowfac17    DMCIRCUIT    (ushort)
     lowfac18    DMCIRCUIT    (ushort)
     lowfac19    DMCIRCUIT    (ushort)
     lowfac20    DMCIRCUIT    (ushort)
     lowfac21    DMCIRCUIT    (ushort)
     lowfac22    DMCIRCUIT    (ushort)
     lowfac23    DMCIRCUIT    (ushort)
     lowfac24    DMCIRCUIT    (ushort)
     lowfac25    DMCIRCUIT    (ushort)
     lowfac26    DMCIRCUIT    (ushort)
     lowfac27    DMCIRCUIT    (ushort)
     lowfac28    DMCIRCUIT    (ushort)
     lowfac29    DMCIRCUIT    (ushort)
     lowfac30    DMCIRCUIT    (ushort)
     lowfac31    DMCIRCUIT    (ushort)
         User, Compacted and Stored Tuple Layout   MULTIFAC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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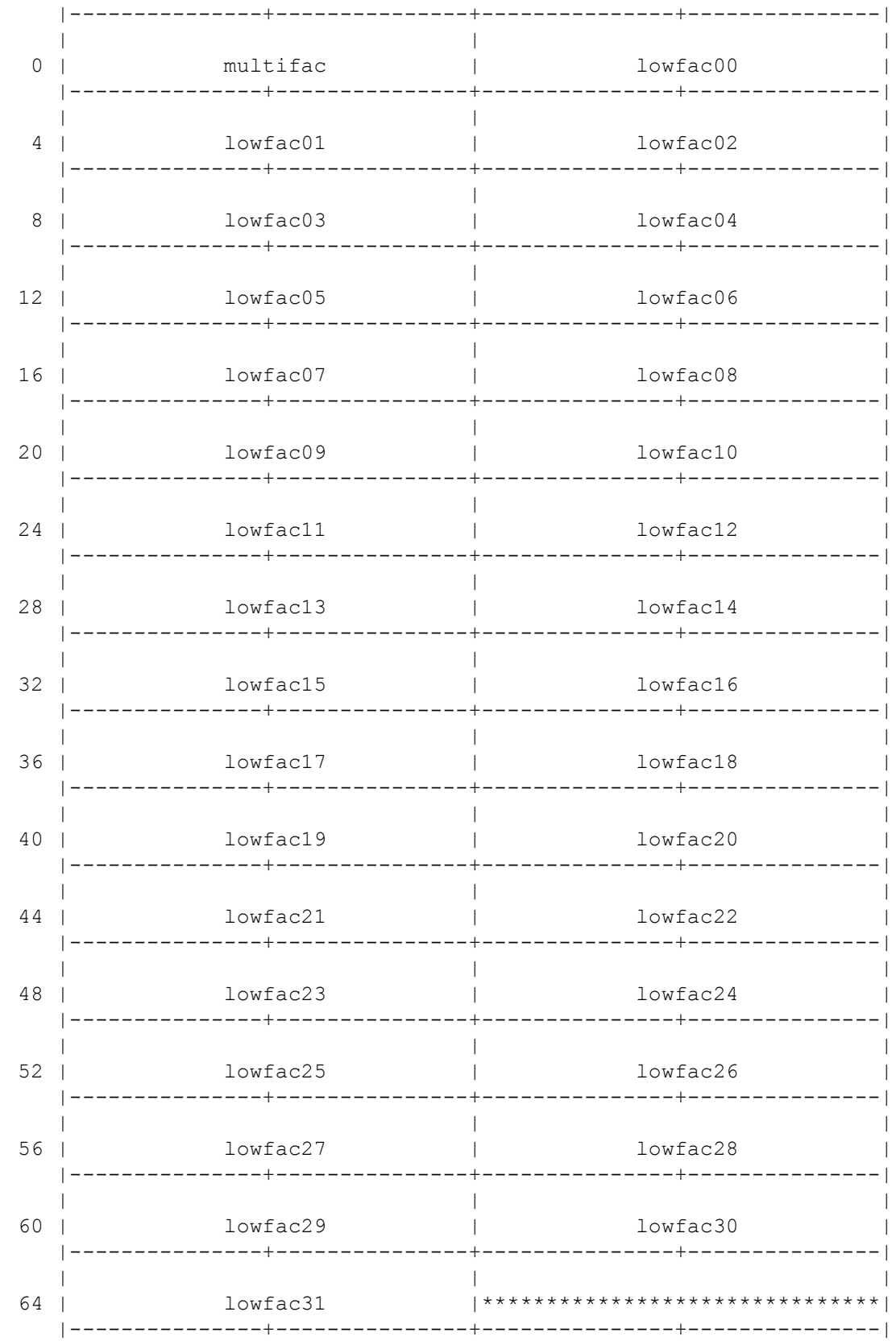


( 68 bytes )

domain alMULTIFAC struct (2 sub-attributes)

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```
        multifac    unsigned short (ushort)
        lowfac      .0.fake      (array [ 32 ] of unsigned short )

        Structure Layout      alMULTIFAC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            multifac           |             lowfac            |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  4 |                               lowfac                          |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  8 |                               lowfac                          |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                    .
                                    .
                                    .
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 60 |                               lowfac                          |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 64 |              lowfac           |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 68 bytes )
```

## 4. Population Rules for RLmultifac

**Relation Description** Multi-facility child map

This relation maps a single high-level circuit (multi-facility) to a group of subtending low-level (child) facilities.

**Attribute: multifac**

**Fullname:** Multi-facility circuit name

**Attribute Description** For each transport unit terminating more than a single low-level facility (T1/E1), a single higher level circuit within the unit is chosen to represent all the subtending facilities.

**Attribute: lowfac[*]**

**Fullname:** Low-level facility circuit names

**Attribute Description** These attributes (lowfac00 - lowfac31) are the low-level facility names in this multifac set.

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# MUMTIB

## 1. Description

Holds MTIB access information per IM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | MPH |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |

## 3. Field Layout

```
MUMTIB      relid = 291   DBSTATIC   DBACC_CIND  DBPRAM    LP      MPH
     msu0_sgid   DMPICB       (ushort)
     nextmsu0_sg  DMPICB       (ushort)
     prevmsu0_sg  DMPICB       (ushort)
     msu1_sgid   DMPICB       (ushort)
     nextmsu1_sg  DMPICB       (ushort)
     prevmsu1_sg  DMPICB       (ushort)
     msu2_sgid   DMPICB       (ushort)
     nextmsu2_sg  DMPICB       (ushort)
     prevmsu2_sg  DMPICB       (ushort)
     msu3_sgid   DMPICB       (ushort)
     nextmsu3_sg  DMPICB       (ushort)
     prevmsu3_sg  DMPICB       (ushort)
     module      DMMODULE     (ushort: 8)     <--- key
     next0_mod   DMMODULE     (ushort: 8)
     prev0_mod   DMMODULE     (ushort: 8)
     next1_mod   DMMODULE     (ushort: 8)
     prev1_mod   DMMODULE     (ushort: 8)
     next2_mod   DMMODULE     (ushort: 8)
     prev2_mod   DMMODULE     (ushort: 8)
     next3_mod   DMMODULE     (ushort: 8)
     prev3_mod   DMMODULE     (ushort: 8)
 (a) msu0_sh0    DMBOOL       (enum: 1)
 (b) msu0_sh1    DMBOOL       (enum: 1)
 (c) msu0_sh2    DMBOOL       (enum: 1)
 (d) msu0_sh3    DMBOOL       (enum: 1)
 (e) msu1_sh0    DMBOOL       (enum: 1)
 (f) msu1_sh1    DMBOOL       (enum: 1)
 (g) msu1_sh2    DMBOOL       (enum: 1)
 (h) msu1_sh3    DMBOOL       (enum: 1)
 (i) msu2_sh0    DMBOOL       (enum: 1)
 (j) msu2_sh1    DMBOOL       (enum: 1)
 (k) msu2_sh2    DMBOOL       (enum: 1)
 (l) msu2_sh3    DMBOOL       (enum: 1)
 (m) msu3_sh0    DMBOOL       (enum: 1)
 (n) msu3_sh1    DMBOOL       (enum: 1)
```

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```
(o) msu3_sh2    DMBOOL       (enum: 1)
(p) msu3_sh3    DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout MUMTIB
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |           msu0_sgid           |          nextmsu0_sg          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |          prevmsu0_sg          |           msu1_sgid           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |          nextmsu1_sg          |          prevmsu1_sg          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |           msu2_sgid           |          nextmsu2_sg          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |          prevmsu2_sg          |           msu3_sgid           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |          nextmsu3_sg          |          prevmsu3_sg          |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
24 |     module    |   next0_mod   |   prev0_mod   |   next1_mod   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
28 |   prev1_mod   |   next2_mod   |   prev2_mod   |   next3_mod   |
   |---------------+---------------+---------------+---------------|
   |               | | | | | | | | | | | | | | | |               |
32 |   prev3_mod   |a|b|c|d|e|f|g|h|i|j|k|l|m|n|o|p|***************|
   |---------------+---------------+---------------+---------------|
      ( 36 bytes )
```

## 4. Population Rules for RLmumtib

**Relation Description** Holds Metallic Test Interconnect Bus access info per Switching Module

This relation contains metallic test interconnect bus (MTIB) information for different SMs. Each SM may contain up to 2 regular MSUs, or a single compact shelf MSU. The relation describes the MTIB route between MSU service groups and indicates which MSU shelves have metallic access.

The key for this relation is the SM number. A given SM will have a tuple in this relation only if there are one or more MTIB access packs equipped in the SM. No tuple should be present for any MSU on a remoted SM (RSM, ORM, or TRM), even if the MSU is equipped with MTIB access packs.

A compact shelf MSU is a single service group MSU intended to support small office configurations. The compact shelf is required to be MSU unit number zero which contains only service group 0.
While MTIB's may not be needed for an office equipped with a single compact MSU, an MTIB access pack is required in a compact shelf MSU to provide access to the protocol test circuit on the MSU common board.

The non-key part of the tuple can be thought of as four co-tuples that represent the four MSU service groups (in the 2 MSU's) that may reside in this SM. A co-tuple will be populated only if the service group it represents has metallic

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access. An unpopulated co-tuple has all of its attributes set to the default values.

The attributes that comprise a co-tuple all have the same digit (0, 1, 2, or 3) as part of the variable name. These attributes map to MSU service groups as follows:

```
0 refers to MSU 0, service group 1
1 refers to MSU 0, service group 0
2 refers to MSU 1, service group 1
3 refers to MSU 1, service group 0
```

For example, the co-tuple representing MSU 0, service group 1 is comprised of the following attributes: msu0_sgid, msu0_sh[0 thru 3], next0_mod, nextmsu0_sg, prev0_mod, prevmsu0_sg.

A word of caution. To avoid confusion about this naming scheme, remember that the attribute 'msu0_sgid' refers to service group 1 (MSU 0), while 'msu1_sgid' refers to service group 0 (MSU 0). The names of MSU 1 attributes are similar, and must also be considered carefully.

**Attribute: module**

**Fullname:** SM Number

**Attribute Description** The number of an SM that is equipped with one or more MTIB access packs.

**Attribute: msu0_sgid**

**Fullname:** MSU Service Group Identifier

**Attribute Description** This is the service group identifier (PICB + 1) of an MSU that has metallic access. It is the key of the co-tuple containing the following attributes: msu0_sgid, msu0_sh(0:3), next0_mod, nextmsu0_sg, prev0_mod, prevmsu0_sg. This co-tuple always maps to service group 1 of MSU 0.

**Attribute: msu0_sh[*]**

**Fullname:** MSU Shelf Metallic Access Information

**Attribute Description** One attribute exists for each shelf in the MSU service group. The attribute's value is DBYES if the shelf has metallic access and DBNO otherwise.

**Attribute: next0_mod**

**Fullname:** SM Number of the Next Populated Co-tuple

**Attribute Description** This is the SM number of the next MSU service group in the MTIB span. The pair (next0_mod, nextmsu0_sg) can be thought of as a 'next' link in the list of MSU service groups. If this is the last service group in the MTIB span, the value of next0_mod is 0.

**Attribute: nextmsu0_sg**

**Fullname:** Service group ID of the next populated co-tuple

**Attribute Description** This is the service group identifier (PICB + 1) of the next MSU service group in the MTIB span. The pair (next0_mod, nextmsu0_sg) can be thought of as a 'next' link in the list of MSU service groups. If this is the last service group in the MTIB span, the value of nextmsu0_sg is 0.

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**Attribute: prev0_mod**

**Fullname:** SM number of the previous populated co-tuple.

**Attribute Description** This is the SM number of the previous MSU service group in the MTIB span. The pair (prev0_mod, prevmsu0_sg) can be thought of as a 'previous' link in the list of MSU service groups. If this is the first service group in the MTIB span, the value of prev0_mod is 0.

**Attribute: prevmsu0_sg**

**Fullname:** Service group ID of the previous populated co-tuple.

**Attribute Description** This is the service group identifier (PICB + 1) of the previous MSU service group in the MTIB span. The pair (prev0_mod, prevmsu0_sg) can be thought of as a 'previous' link in the list of MSU service groups. If this is the first service group in the MTIB span, the value of prevmsu0_sg is 0.

**Attribute: msu1_sgid**

**Fullname:** MSU Service Group Number

**Attribute Description** This is the service group identifier (PICB + 1) of an MSU that has metallic access. It is the key of the co-tuple containing the following attributes: msu1_sgid, msu1_sh(0:3), next1_mod, nextmsu1_sg, prev1_mod, prevmsu1_sg. This co-tuple always maps to service group 0 of MSU 0.

**Attribute: msu1_sh[*]**

**Fullname:** MSU Shelf Metallic Access Information

**Attribute Description** One attribute exists for each shelf in the MSU service group. The attribute's value is DBYES if the shelf has metallic access and DBNO otherwise.

**Attribute: next1_mod**

**Fullname:** SM number of the next populated co-tuple.

**Attribute Description** This is the SM number of the next MSU service group in the MTIB span. The pair (next1_mod, nextmsu1_sg) can be thought of as a 'next' link in the list of MSU service groups. If this is the last service group in the MTIB span, the value of next1_mod is 0.

**Attribute: nextmsu1_sg**

**Fullname:** Service group ID of the next populated co-tuple.

**Attribute Description** This is the service group identifier (PICB + 1) of the next MSU service group in the MTIB span. The pair (next1_mod, nextmsu1_sg) can be thought of as a 'next' link in the list of MSU service groups. If this is the last service group in the MTIB span, the value of nextmsu1_sg is 0.

**Attribute: prev1_mod**

**Fullname:** SM number of the previous populated co-tuple.

**Attribute Description** This is the SM number of the previous MSU service group in the MTIB span. The pair (prev1_mod, prevmsu1_sg) can be thought of as a 'previous' link in the list of MSU

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service groups. If this is the first service group in the MTIB span, the value of prev1_mod is 0.

**Attribute: prevmsu1_sg**

**Fullname:** Service group ID of the previous populated co-tuple.

**Attribute Description** This is the service group identifier (PICB + 1) of the previous MSU service group in the MTIB span. The pair (prev1_mod, prevmsu1_sg) can be thought of as a 'previous' link in the list of MSU service groups. If this is the first service group in the MTIB span, the value of prevmsu1_sg is 0.

**Attribute: msu2_sgid**

**Fullname:** MSU Service Group Number

**Attribute Description** This is the service group identifier (PICB + 1) of an MSU that has metallic access. It is the key of the co-tuple containing the following attributes: msu2_sgid, msu2_sh(0:3), next2_mod, nextmsu2_sg, prev2_mod, prevmsu2_sg. This co-tuple always maps to service group 1 of MSU 1.

**Attribute: msu2_sh[*]**

**Fullname:** MSU shelf metallic access information.

**Attribute Description** One attribute exists for each shelf in the MSU service group. The attribute's value is DBYES if the shelf has metallic access and DBNO otherwise.

**Attribute: next2_mod**

**Fullname:** SM number of the next populated co-tuple.

**Attribute Description** This is the SM number of the next MSU service group in the MTIB span. The pair (next2_mod, nextmsu2_sg) can be thought of as a 'next' link in the list of MSU service groups. If this is the last service group in the MTIB span, the value of next2_mod is 0.

**Attribute: nextmsu2_sg**

**Fullname:** Service group ID of the next populated co-tuple.

**Attribute Description** This is the service group identifier (PICB + 1) of the next MSU service group in the MTIB span. The pair (next2_mod, nextmsu2_sg) can be thought of as a 'next' link in the list of MSU service groups. If this is the last service group in the MTIB span, the value of nextmsu2_sg is 0.

**Attribute: prev2_mod**

**Fullname:** SM number of the previous populated co-tuple.

**Attribute Description** This is the SM number of the previous MSU service group in the MTIB span. The pair (prev2_mod, prevmsu2_sg) can be thought of as a 'previous' link in the list of MSU service groups. If this is the first service group in the MTIB span, the value of prev2_mod is 0.

**Attribute: prevmsu2_sg**

**Fullname:** Service group ID of the previous populated co-tuple.

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**Attribute Description** This is the service group identifier (PICB + 1) of the previous MSU service group in the MTIB span. The pair (prev2_mod, prevmsu2_sg) can be thought of as a 'previous' link in the list of MSU service groups. If this is the first service group in the MTIB span, the value of prevmsu2_sg is 0.

**Attribute: msu3_sgid**

**Fullname:** MSU Service Group Number

**Attribute Description** This is the service group identifier (PICB + 1) of an MSU that has metallic access. It is the key of the co-tuple containing the following attributes: msu3_sgid, msu3_sh(0:3), next3_mod, nextmsu3_sg, prev3_mod, prevmsu3_sg. This co-tuple always maps to service group 0 of MSU 1.

**Attribute: msu3_sh[*]**

**Fullname:** MSU shelf metallic access information.

**Attribute Description** One attribute exists for each shelf in the MSU service group. The attribute's value is DBYES if the shelf has metallic access and DBNO otherwise.

**Attribute: next3_mod**

**Fullname:** SM number of the next populated co-tuple.

**Attribute Description** This is the SM number of the next MSU service group in the MTIB span. The pair (next3_mod, nextmsu3_sg) can be thought of as a 'next' link in the list of MSU service groups. If this is the last service group in the MTIB span, the value of next3_mod is 0.

**Attribute: nextmsu3_sg**

**Fullname:** Service group ID of the next populated co-tuple.

**Attribute Description** This is the service group identifier (PICB + 1) of the next MSU service group in the MTIB span. The pair (next3_mod, nextmsu3_sg) can be thought of as a 'next' link in the list of MSU service groups. If this is the last service group in the MTIB span, the value of nextmsu3_sg is 0.

**Attribute: prev3_mod**

**Fullname:** SM number of the previous populated co-tuple.

**Attribute Description** This is the SM number of the previous MSU service group in the MTIB span. The pair (prev3_mod, prevmsu3_sg) can be thought of as a 'previous' link in the list of MSU service groups. If this is the first service group in the MTIB span, the value of prev3_mod is 0.

**Attribute: prevmsu3_sg**

**Fullname:** Service group ID of the previous populated co-tuple.

**Attribute Description** This is the service group identifier (PICB + 1) of the previous MSU service group in the MTIB span. The pair (prev3_mod, prevmsu3_sg) can be thought of as a 'previous' link in the list of MSU service groups. If this is the first service group in the MTIB span, the value of prevmsu3_sg is 0.

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# MWCF

## 1. Description

Multiway constructed feature -- used in SM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| expected number of tuples | 60 |
| density | 90 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
MWCF        relid = 517   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     feat_id     DMFID         (ushort: 10)  <--- key
     cntrl       DMMWCNTL      (enum: 4)
 (a) xfer        DMMWXFER      (enum: 2)
 (b) pty_dep_tn  DMMC_TONE     (enum: 3)
     actvn       DMMC_ACTYP    (enum: 3)
 (c) ps_pd       DMMWPSIG      (enum: 2)
 (d) dctvn       DMMC_DCTYP    (enum: 2)
 (e) ot_hldfl    DMMWFLTR      (enum: 2)
 (f) ot_3wyfl    DMMWFLTR      (enum: 2)
 (g) ot_xfrfl    DMMWFLTR      (enum: 2)
 (h) epflash     DMBOOL        (enum: 1)
 (i) epin_mid    DMBOOL        (enum: 1)
 (j) epoff_hk    DMBOOL        (enum: 1)
 (k) epfr_cw     DMBOOL        (enum: 1)
 (l) epfr_pu     DMBOOL        (enum: 1)
 (m) epis_button  DMBOOL        (enum: 1)
 (n) epis_dialcd  DMBOOL        (enum: 1)
 (o) epis_fr_pu  DMBOOL        (enum: 1)
 (p) episa_dialcd  DMBOOL        (enum: 1)
 (q) fl_bfr_ans  DMBOOL        (enum: 1)
 (r) splt_last_pty  DMBOOL        (enum: 1)
 (s) sigc_3way   DMBOOL        (enum: 1)
 (t) sigc_hold   DMBOOL        (enum: 1)
 (u) three_way_ind  DMBOOL        (enum: 1)
 (v) oh_tg_fl    DMBOOL        (enum: 1)
 (w) oh_interfl  DMBOOL        (enum: 1)
 (x) oh_intrafl  DMBOOL        (enum: 1)
 (y) oh_pf_fl    DMBOOL        (enum: 1)
 (z) oh_attfl    DMBOOL        (enum: 1)
 (A) ah_tg_fl    DMBOOL        (enum: 1)
 (B) ah_interfl  DMBOOL        (enum: 1)
 (C) ah_intrafl  DMBOOL        (enum: 1)
 (D) ah_pf_fl    DMBOOL        (enum: 1)
 (E) ah_attfl    DMBOOL        (enum: 1)
 (F) o3_tg_fl    DMBOOL        (enum: 1)
 (G) o3_interfl  DMBOOL        (enum: 1)
```

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```
(H) o3_intrafl  DMBOOL       (enum: 1)
(I) o3_pf_fl    DMBOOL       (enum: 1)
(J) o3_attfl    DMBOOL       (enum: 1)
(K) a3_tg_fl    DMBOOL       (enum: 1)
(L) a3_interfl  DMBOOL       (enum: 1)
(M) a3_intrafl  DMBOOL       (enum: 1)
(N) a3_pf_fl    DMBOOL       (enum: 1)
(O) a3_attfl    DMBOOL       (enum: 1)
(P) ox_tg_fl    DMBOOL       (enum: 1)
(Q) ox_interfl  DMBOOL       (enum: 1)
(R) ox_intrafl  DMBOOL       (enum: 1)
(S) ox_pf_fl    DMBOOL       (enum: 1)
(T) ox_attfl    DMBOOL       (enum: 1)
(U) ax_tg_fl    DMBOOL       (enum: 1)
(V) ax_interfl  DMBOOL       (enum: 1)
(W) ax_intrafl  DMBOOL       (enum: 1)
(X) ax_pf_fl    DMBOOL       (enum: 1)
(Y) ax_attfl    DMBOOL       (enum: 1)
(Z) px_tg_fl    DMBOOL       (enum: 1)
(a) px_interfl  DMBOOL       (enum: 1)
(b) px_intrafl  DMBOOL       (enum: 1)
(c) px_pf_fl    DMBOOL       (enum: 1)
(d) bill_flat   DMBOOL       (enum: 1)
(e) bill_uf1    DMBOOL       (enum: 1)
(f) bill_uf2    DMBOOL       (enum: 1)
(g) bill_uf3    DMBOOL       (enum: 1)
(h) bill_uf4    DMBOOL       (enum: 1)
(i) bill_actchrg  DMBOOL       (enum: 1)
(j) bill_dactchrg  DMBOOL       (enum: 1)
(k) bill_duration  DMBOOL       (enum: 1)
(l) bill_change  DMBOOL       (enum: 1)
(m) px_attfl    DMBOOL       (enum: 1)
(n) nw_tg_fl    DMBOOL       (enum: 1)
(o) nw_interfl  DMBOOL       (enum: 1)
(p) nw_intrafl  DMBOOL       (enum: 1)
(q) nw_pf_fl    DMBOOL       (enum: 1)
(r) nw_attfl    DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   MWCF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                   |       |   |     |     |   |   |   |   |   |
 0 |      feat_id      | cntrl | a |  b  |actvn| c | d | e | f | g |
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 4 |h|i|j|k|l|m|n|o|p|q|r|s|t|u|v|w|x|y|z|A|B|C|D|E|F|G|H|I|J|K|L|M|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 8 |N|O|P|Q|R|S|T|U|V|W|X|Y|Z|a|b|c|d|e|f|g|h|i|j|k|l|m|n|o|p|q|r|*|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population Rules for RLmwcf

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**Relation Description** Multiway constructed feature.

The following is a list of valid service classes for ports assigned this feature:

| LINES | TRUNKS |
|---|---|
| FC_INDVDL | FC_PFLASH |
| FC_PBX | FC_PFITT |
| FC_ATTENDANT | FC_PF |
| FC_SATSTLN | |
| FC_4WIRE_INDV | |
| FC_ISDN | |
| FC_ISATND | |

**Attribute: feat_id**

**Fullname:** feature id.

**Attribute Description** Multiway constructed feature id.

The RLtrmfeats tuple must have an attribute such that (mftype of MFMWY + RLmwcf.feat_id = RLtrmfeats.ftent[n].fid. See the following NOTE. NOTE: MFMWY is defined in db/DMmftype.G. Adding mftype to feat_id before reading RLtrmfeats is necessary because the feat_id in this relation is the unique 10 bits of the FID, it does not include the mftype. Whereas, RLtrmfeats stores the entire FID (mftype + 10 unique bits).

Verify that RLfacname has a tuple such that feat_id = RLfacname.facid, and RLfacname.class = FACBRCS and RLfacname.subclass = SCL_FEAT for that tuple.

```
NOTE: One of the following Entry Point options:
      (For non-ISDN epflash, epin_mid, epoff_hk, epfr_cw, epfr_pu)
      (For ISDN epis_button, epis_dialcd, epis_fr_pu)
      (For ISDN Attendant episa_dialcd)
      must be chosen (that is, equal to DBYES).
      Note that for ISDN Attendant (that is, servclass of FC_ISATND)
      call processing fl_bfr_ans is not being used. The fl_bfr_ans
      attribute is being set with the  default value of DBYES for servcla
ss
      of FC_ISATND.
      if RLfc_porttyp.servclass = FC_ISDN then
         RLmwcf.epflash = DBNO
         RLmwcf.epin_mid = DBNO
         RLmwcf.epoff_hk = DBNO
         RLmwcf.epfr_cw = DBNO
         RLmwcf.epfr_pu = DBNO
      if RLfc_porttyp.servclass = FC_ISATND then
         RLmwcf.epflash = DBNO
         RLmwcf.epin_mid = DBNO
         RLmwcf.epoff_hk = DBNO
         RLmwcf.epfr_cw = DBNO
         RLmwcf.epfr_pu = DBNO
         RLmwcf.epis_button = DBNO
         RLmwcf.epis_dialcd = DBNO
         RLmwcf.epis_fr_pu = DBNO
```

**Attribute: epflash**

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**Fullname:** Entry point from flash.

**Attribute Description**

```
Entry to multiway calling from flash.
If RLmwcf.epflash = DBYES  then
        RLmwcf.epin_mid = DBNO
        RLmwcf.epoff_hk = DBNO
        RLmwcf.epfr_cw = DBNO
        RLmwcf.epfr_pu = DBNO.
if epflash=DBYES, actvn=ACTNONE and dctvn=DCTNONE for a multiway feature
on
        a terminal then no other multiway feature with epflash=DBYES may
be
        assigned to that terminal.
if epflash=DBYES and dctvn=DCTCD for a multiway feature on a terminal the
n
        no other multiway feature with dctvn=DCTCD or dctvn=DCTAUTO may b
e
        assigned to that terminal.
```

**Attribute: epin_mid**

**Fullname:** entry point by code

**Attribute Description**

```
Entry to multiway calling by dialed code (start
in the middle of Multiway).
If RLmwcf.epin_mid = DBYES  then
        RLmwcf.ept.fr_cw = DBNO
        RLmwcf.epfr_pu = DBNO
        RLmwcf.cntrl cannot = DIR_CONN, CODE_3WAY
```

**Attribute: epoff_hk**

**Fullname:** Entry point by code start off hook

**Attribute Description** Entry to multiway calling by dialed code (start off hook).

```
If RLmwcf.epoff_hk = DBYES  then
        RLmwcf.epfr_cw = DBNO
        RLmwcf.epfr_pu = DBNO
        RLmwcf.cntrl cannot = DIR_CONN, CODE_3WAY
```

**Attribute: epfr_cw**

**Fullname:** Entry point from call waiting

**Attribute Description** Entry to multiway calling from call waiting.

**Attribute: epfr_pu**

**Fullname:** Entry point from call pick up

**Attribute Description** Entry to multiway calling from Call Pick Up

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***NOTE:*** Recent Change is not enforcing the checks on RLis_term and RLis_line because Recent Change can not force the order in which views are accessed. These checks would require that the terminal assignment view had been accessed prior to accessing this view. However, ISDN Multiway will only work on a CPE which has at least 2 Call Appearances.

**Attribute: epis_button**

**Fullname:** Entry point for ISDN by functional button (CONF or TRAN)

**Attribute Description** Entry to ISDN multiway calling from ISDN functional button, CONF or TRAN.

```
Range of Values: DBYES or DBNO.
Default value: DBNO.
Dependencies:
If RLmwcf.epis_button = DBYES  then
        RLmwcf.epis_dialcd = DBNO
        RLmwcf.epis_fr_pu = DBNO
        RLmwcf.cntrl cannot = AUTO3_WAY
        RLmwcf.cntrl cannot = HOLD_ALT
        RLmwcf.cntrl cannot = HLD_ALT_3W
        RLmwcf.cntrl cannot = ALT
        RLmwcf.cntrl cannot = DIR_CONN
        RLmwcf.fl_bfr_ans = DBYES
        RLmwcf.xfer cannot = XFR_ON_TN
        RLmwcf.mwps_pd = NORMAL
        RLmwcf.sigc_3way = DBNO
        RLmwcf.sigc_hold = DBNO
        RLmwcf.ot_hldfl = ALL

if epis_button=DBYES, actvn=ACTNONE and dctvn=DCTNONE for a
        multiway feature on a terminal then no other multiway
        feature with  epis_button=DBYES may be assigned to that terminal.

if epis_button=DBYES and dctvn=DCTCD for a multiway feature on a
        terminal then no other multiway feature with dctvn=DCTCD
        or dctvn=DCTAUTO  may be assigned to that terminal.
```

**Attribute: epis_dialcd**

**Fullname:** Entry point by ISDN by dialed code or feature button

**Attribute Description** Entry to ISDN multiway calling by dialed code or feature button.

```
Range of Values: DBYES or DBNO.
Default value: DBNO
Dependencies:
If RLmwcf.epis_dialcd = DBYES
         RLmwcf.epis_button = DBNO
         RLmwcf.epis_fr_pu = DBNO
         RLmwcf.cntrl cannot = AUTO3_WAY
         RLmwcf.cntrl cannot = HOLD_ALT
         RLmwcf.cntrl cannot = HLD_ALT_3W
         RLmwcf.cntrl cannot = ALT
         RLmwcf.cntrl cannot = DIR_CONN
```

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```
RLmwcf.fl_bfr_ans = DBYES
RLmwcf.xfer cannot = XFR_ON_TN
RLmwcf.mwps_pd = NORMAL
RLmwcf.sigc_3way = DBNO
RLmwcf.sigc_hold = DBNO
RLmwcf.ot_hldfl = ALL
```

**Attribute: epis_fr_pu**

**Fullname:** Entry point from call pick up

**Attribute Description** Entry to ISDN multiway calling from Call Pick Up.

```
Range of Values: DBYES or DBNO.
Default value: DBNO.
Dependencies:
If RLmwcf.epis_fr_pu = DBYES  then
        RLmwcf.epis_dialcd = DBNO
        RLmwcf.epis_button = DBNO
        RLmwcf.actvn = ACTNONE.
        RLmwcf.dctvn = DCTNONE.
        ==== RC information only ====
        (that is,  rc.actinact = ALWAYACT)
        ================================
        RLmwcf.cntrl  = MW3_WAY
        RLmwcf.xfer cannot = XFR_ON_TN.
        RLmwcf.fl_bfr_ans = DBYES.
        RLmwcf.sigc_3way = DBNO.
        RLmwcf.sigc_hold = DBNO.
        RLmwcf.mwps_pd = NORMAL
        RLmwcf.ot_hldfl = ALL

if RLfc_porttyp.servclass not = FC_ISATND
  then RLmwcf.episa_dialcd =  DBNO
```

**Attribute: episa_dialcd**

**Fullname:** Entry point by ISDN by dialed code or feature button

**Attribute Description** Entry to ISDN Attendant multiway calling by dialed code or feature button.

```
Range of Values: DBYES or DBNO.
Default value: DBNO
Dependencies:
If RLmwcf.episa_dialcd = DBYES
        RLmwcf.epis_button = DBNO
        RLmwcf.epis_fr_pu = DBNO
        RLmwcf.cntrl cannot = FLASH_RPT
        RLmwcf.cntrl cannot = HOLD_ALT
        RLmwcf.cntrl cannot = HLD_ALT_3W
        RLmwcf.cntrl cannot = ALT
        RLmwcf.cntrl cannot = DIR_CONN
        RLmwcf.cntrl cannot = HOLD
        RLmwcf.fl_bfr_ans = DBYES
        RLmwcf.xfer cannot = NEVER
        RLmwcf.mwps_pd = NORMAL
```

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```
        RLmwcf.sigc_3way = DBNO
        RLmwcf.sigc_hold = DBNO
        RLmwcf.ot_hldfl = ALL
```

**Attribute: cntrl**

**Fullname:** multiway control

**Attribute Description** Which call processing function will be performed by the feature.

```
Range of Values: HOLD, HOLD_ALT, ALT, MW3_WAY,
                 AUTO3_WAY, DIR_CONN, N_WAY, MWFLSHRPT,
                 CODE_3WAY, HA_3WAY, HLD_ALT_3W.
Default Value: No default.
Dependencies:
If RLmwcf.cntrl = CODE_3WAY
         RLmwcf.xfer = NO_XFER
         RLmwcf.splt_last_pty = N
         RLmcwf.epin_mid = N
         RLmwcf.epoff_hk = N
         RLmwcf.epfr_pu = N
         RLmcwf.sigc_hold = N
         RLmwcf.sigc_3way = N
         RLmwcf.mw_bill = flat
If RLmwcf.cntrl = MW3_WAY then
          RLmwcf.splt_last_pty = DBNO.
If RLmwcf.cntrl = HOLD then
          RLmwcf.sigc_3way = DBNO
          RLmwcf.epfr_pu = DBNO
          RLmwcf.splt_last_pty = DBNO
If RLmwcf.cntrl = AUTO3_WAY then
          RLmwcf.epfr_pu = DBNO
          RLmwcf.epis_button = DBNO
          RLmwcf.epis_dialcd = DBNO
          RLmwcf.epis_fr_pu = DBNO
          if RLfc_porttyp.servclass = FC_ISATND then
                  RLmwcf.episa_dialcd = DBYES
          RLmwcf.splt_last_pty = DBNO
If RLmwcf.cntrl = DIR_CONN then
          RLmwcf.xfer = ALW_XFER
          RLmwcf.splt_last_pty = DBNO
          RLmwcf.fl_bfr_ans = DBNO.
          RLmwcf.epin_mid = DBNO.
          RLmwcf.epoff_hk = DBNO.
          RLmwcf.epfr_cw = DBNO.
          RLmwcf.epfr_pu = DBNO.
          RLmwcf.epis_fr_pu = DBNO.
          RLmwcf.epis_button = DBNO
          RLmwcf.epis_dialcd = DBNO
          RLmwcf.epis_fr_pu = DBNO
          RLmwcf.episa_dialcd = DBNO.
          RLmwport.dir_conn_dn cannot = 0.
          RLmwport.dir_conn_dn cannot =  NULL.
          RLmwcf.fl_bfr_ans = DBNO.
          RLfc_porttyp.servclass!=  FC_ISATND
```

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```
If RLmwcf.cntrl = HOLD_ALT then
          RLmwcf.sigc_3way = DBNO
          RLmwcf.splt_last_pty = DBNO
          RLmwcf.epfr_pu = DBNO.
          RLmwcf.epis_button = DBNO
          RLmwcf.epis_dialcd = DBNO
          RLmwcf.epis_fr_pu = DBNO
          RLmwcf.episa_dialcd = DBNO
If RLmwcf.cntrl = ALT then
          RLmwcf.sigc_3way = DBNO
          RLmwcf.epfr_pu = DBNO
          RLmwcf.epis_button = DBNO
          RLmwcf.epis_dialcd = DBNO
          RLmwcf.epis_fr_pu = DBNO
          RLmwcf.episa_dialcd = DBNO
          RLmwcf.splt_last_pty = DBNO
If RLmwcf.cntrl = N_WAY then
          RLmwcf.sigc_hold = DBNO
          RLmwcf.xfer cannot = XFR_ON_TN
          RLmwcf.epfr_pu = DBNO.
If RLmwcf.cntrl = MWFLSHRPT then
          ((RLmwcf.epflash = DBYES) or
          (RLmwcf.epis_button = DBYES)).
          RLmwcf.episa_dialcd = DBNO
          RLmwcf.fl_bfr_ans = DBYES.
          RLmwcf.splt_last_pty =DBNO.
If RLmwcf.cntrl = HLD_ALT_3W then
          RLmwcf.epfr_cw = DBYES
          RLmwcf.sigc_3way = DBNO
          RLmwcf.splt_last_pty = DBNO
          RLmwcf.epfr_pu = DBNO.
          RLmwcf.epis_button = DBNO
          RLmwcf.epis_dialcd = DBNO
          RLmwcf.epis_fr_pu = DBNO
          RLmwcf.episa_dialcd = DBNO
```

**Attribute: fl_bfr_ans**

**Fullname:** Flash before answer

**Attribute Description** Determines whether a customer flash will be recognized by the switching system before answer.

Note that for ISDN Attendant (that is, servclass of FC_ISATND) call processing fl_bfr_ans is not being used. The fl_bfr_ans attribute is being set with the default value of DBYES for servclass of FC_ISATND.

```
Range of Values: DBYES or DBNO
Default Value: DBYES.
Dependencies:
If RLmwcf.fl_bfr_ans = DBYES then
         RLmwcf.epfr_cw = DBNO.
         RLmwcf.epfr_pu = DBNO.
         RLmwcf.cntrl cannot = DIR_CONN.
If RLmwcf.fl_bfr_ans = DBNO then
```

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```
        RLmwcf.epis_button = DBNO
        RLmwcf.epis_dialcd = DBNO
        RLmwcf.epis_fr_pu = DBNO
        RLmwcf.episa_dialcd = DBNO
```

**Attribute: xfer**

**Fullname:** multiway transfer

**Attribute Description** How the controlling terminal's on hook will effect each of the MWC Control component options.

```
Range of Values: NO_XFER, ALW_XFER, XFER_ON_TN.
Default Value: NO_XFER.
Dependencies:
If RLmwcf.xfer = NO_XFER then
        RLmwcf.sigc_3way = DBNO.
        RLmwcf.sigc_hold = DBNO.
        RLmwcf.episa_dialcd = DBNO
 If RLmwcf.xfer = XFR_ON_TN then
        RLmwcf.epfr_pu = DBNO.
        RLmwcf.cntrl  cannot = DIR_CONN, N_WAY, CODE_3WAY.
        RLmwcf.epfr_cw= DBNO
        RLmwcf.epis_button = DBNO
        RLmwcf.epis_dialcd = DBNO
        RLmwcf.epis_fr_pu  = DBNO
        RLmwcf.episa_dialcd = DBNO
```

**Attribute: pty_dep_tn**

**Fullname:** party departure tone

**Attribute Description** Determines if and which special tone is given if a held or non-controlling terminal disconnects.

```
Range of Values: TN_NONE, TNBEEP1, TNBEEP2, TNBEEP3, TNLEAVE.

If tone is TNBEEP1, tone duration Y m.sec. must be specified in
  RLmwport.tone_durn.
```

**Attribute: splt_last_pty**

**Fullname:** split last party

**Attribute Description** Allows the controlling terminal to flash any time after forming the initial Nway call with no terminals held and dial a Split Last Party code to remove the last terminal added to the conference.

```
Range values: DBYES or DBNO.
Default Value: DBNO.
Dependencies:
If RLmwcf.splt_last_pty = DBYES then
        RLmwcf.cntrl = N_WAY.
if RLfc_porttyp.servclass = FC_ISATND then
        RLmwcf.splt_last_pty = DBNO
```

**Attribute: sigc_3way**

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**Fullname:** signal sent to controller on 3-way

**Attribute Description** Signal Controller open interval is sent on a 3-way connection

```
Range of Values: DBYES or DBNO.
Default Value: DBNO.
Dependencies:
If RLmwcf.sigc_3way = DBYES then
         RLmwcf.cntrl cannot = HOLD, HOLD_ALT, ALT, CODE_3WAY.
         RLmwcf.xfer cannot = NO_XFER.
         RLmwcf.epfr_cw = DBNO.
         RLmwcf.epis_button = DBNO
         RLmwcf.epis_dialcd = DBNO
         RLmwcf.epis_fr_pu = DBNO
        RLmwcf.episa_dialcd = DBNO
```

**Attribute: ps_pd**

**Fullname:** permanent signal/partial dial

**Attribute Description**What treatment is given when a customer receives some form of dial tone to dial a code or a telephone number and times out due to PS/PD timing.

```
Range of Values: NORMAL, SILENCE, AUTO_RST.
Default Value: AUTO_RST.
Dependencies: None.
If RLmwps_pd != NORMAL then
         RLmwcf.epis_button = DBNO
         RLmwcf.epis_dialcd = DBNO
         RLmwcf.epis_fr_pu = DBNO
         RLmwcf.episa_dialcd = DBNO
```

**Attribute: sigc_hold**

**Fullname:** signal sent to controller on hold

**Attribute Description** Signal Controller open interval is sent on a hold connection

```
If RLmwcf.sigc_hold = DBYES then
   RLmwcf.cntrl cannot = N_WAY, CODE_3WAY.
   RLmwcf.xfer cannot = NO_XFER
   RLmwcf.epfr_cw = DBNO
   RLmwcf.epfr_pu = DBNO
   RLmwcf.epis_button = DBNO
   RLmwcf.epis_dialcd = DBNO
   RLmwcf.epis_fr_pu = DBNO
   RLmwcf.episa_dialcd = DBNO
```

**Attribute: three_way_ind**

**Fullname:** three way indication

**Attribute Description** Determines if an indication is given to the non-controlling parties when entering 3 way speech.

```
If RLmwcf.three_way_ind = DBYES then
         RLmwcf.cntrl cannot = HOLD,  HOLD_ALT, ALT
```

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**Attribute: actvn**

**Fullname:** feature activation type

**Attribute Description**

Specifies the types of activation allowed for this feature.

```
Enum. value        Dependency
ACTNONE          1) RLmwcf.dctvn = DCTNONE
                    ==== RC Information only ====
                    (that is, rc.actinact = ALWAYACT)
                    ================================
                 2) RLmwcf.dctvn = DCTCD
                    ==== RC Information only ===========
                    (that is, rc.actinact = inact for 1 call)
                    =========================================
                 3) RLmwcf.bill_flat = DBYES
ACTCD            1) RLmwcf.dctvn = DCTCD
                    ==== RC Information only ==========
                    (that is, rc.actinact = customer selec)
                    =======================================
                 2) RLmwcf.dctvn = DCTAUTO
                    ==== RC Information only ==========
                     (that is, rc.actinact = act for 1 call)
                    =======================================
                         *** ODA ONLY WARNING ***
                         *** (NOT SUPPORTED BY RC) ***
                    To activate the feature via a dialed
                    code, verify that RLdaprlfnl and/or
                    RLidp_dtre have a tuple for a given
                    dialed code with action = ACN_FTACT.
               NOTE: see epflash note for feature conditions
```

**Attribute: dctvn**

**Fullname:** feature deactivation type

**Attribute Description** Specifies the types of deactivation allowed for this feature.

```
    Enum value      Dependency
     DCTNONE         1) RLmwcf.actvn = ACTNONE
                     2) RLmwcf.mw_bill = FLATRATE
     DCTCD           1) RLmwcf.actvn = ACTNONE
                        ==== RC Information only ============
                        (that is, rc.actinact = inact  for 1 call)
                        ===========================================
                     2) RLmwcf.actvn = ACTCD
                        ==== RC Information only ==========
                        (that is, rc.actinact = customer selec)
                        =======================================

                         *** ODA ONLY WARNING ***
                         *** (NOT SUPPORTED BY RC) ***
                        To deactivate the feature via a dialed
```

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```
                        code, verify that RLdaprlfnl and/or
                        RLidp_dtre have a tuple for a given
                        dialed code with action = ACN_FTDCT.
 DCTAUTO          1)    RLmwcf.actvn = ACTCD
                        ==== RC Information only ==========
                        (that is, rc.actinact = act for 1 call)
                        ======================================
                NOTE: See epflash note for feature conditions
```

**Attribute: ot_hldfl**

**Fullname:** hold originating/terminating filtering

**Attribute Description** Type of filtering done when the controlling terminal flashes to put another terminal on hold or dials a Start In the Middle code.

```
If RLfc_ot_hldfl != ALL then
   RLmwcf.epis_button = DBNO
   RLmwcf.epis_dialcd = DBNO
   RLmwcf.epis_fr_pu = DBNO
   RLmwcf.episa_dialcd = DBNO
```

**Attribute: oh_tg_fl**

**Fullname:** hold original party terminal group filtering

**Attribute Description** Hold added party terminal group filtering.

**Attribute: oh_interfl**

**Fullname:** hold original party terminal group filtering

**Attribute Description** Hold added party inter-office filtering.

**Attribute: oh_intrafl**

**Fullname:** hold original party terminal group filtering

**Attribute Description**
Hold added party intra-office filtering.

**Attribute: oh_pf_fl**

**Fullname:** hold original party terminal group filtering

**Attribute Description** Hold added party private facilities filtering.

**Attribute: oh_attfl**

**Fullname:** hold original party terminal group filtering

**Attribute Description** Hold added party attendant filtering.

**Attribute: ah_tg_fl**

**Fullname:** hold added party terminal group filtering

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**Attribute Description** Hold added party terminal group filtering.

**Attribute: ah_interfl**

**Fullname:** hold added party terminal group filtering

**Attribute Description** Hold added party inter-office filtering.

**Attribute: ah_intrafl**

**Fullname:** hold added party terminal group filtering

**Attribute Description** Hold added party intra-office filtering.

**Attribute: ah_pf_fl**

**Fullname:** hold added party terminal group filtering

**Attribute Description** Hold added party private facilities filtering.

**Attribute: ah_attfl**

**Fullname:** hold added party terminal group filtering

**Attribute Description** Hold added party attendant filtering.

**Attribute: ot_3wyfl**

**Fullname:** 3-way originating/terminating filtering

**Attribute Description** Filtering done on the original call after the controlling terminal flashes to create a 3 way call.

**Attribute: o3_tg_fl**

**Fullname:** 3-way original party terminal group filtering

**Attribute Description** 3-way original party terminal group filtering.

**Attribute: o3_interfl**

**Fullname:** 3-way original party inter-office filtering

**Attribute Description** 3-way original party inter-office filtering.

**Attribute: o3_intrafl**

**Fullname:** 3-way original party intra-office filtering

**Attribute Description** 3-way original party intera-office filtering.

**Attribute: o3_pf_fl**

**Fullname:** 3-way original party private facilities filtering

**Attribute Description** 3-way original party private facilities filtering.

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**Attribute: o3_attfl**

**Fullname:** 3-way original party attendant filtering

**Attribute Description** 3-way original party attendant filtering.

**Attribute: a3_tg_fl**

**Fullname:** 3-way added party terminal group filtering

**Attribute Description** 3-way added party terminal group filtering.

**Attribute: a3_interfl**

**Fullname:** 3-way added party inter-office filtering

**Attribute Description** 3-way added party inter-office filtering.

**Attribute: a3_intrafl**

**Fullname:** 3-way added party intra-office filtering

**Attribute Description** 3-way added party intra-office filtering.

**Attribute: a3_pf_fl**

**Fullname:** 3-way added party private facilities filtering

**Attribute Description** 3-way added party private facilities filtering.

**Attribute: a3_attfl**

**Fullname:** 3-way added party attendant filtering

**Attribute Description** 3-way added party attendant filtering.

**Attribute: ot_xfrfl**

**Fullname:** transfer originating/terminating filtering

**Attribute Description** Filtering done on the original call after the controlling terminal goes on hook with a terminal or terminals.

**Attribute: ox_tg_fl**

**Fullname:** transfer original party terminal group filtering

**Attribute Description** Transfer original party terminal group filtering.

**Attribute: ox_interfl**

**Fullname:** transfer original party inter-office filtering

**Attribute Description** Transfer original party inter-office filtering.

**Attribute: ox_intrafl**

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**Fullname:** transfer intra-office filtering

**Attribute Description** Transfer original party intra-office filtering.

**Attribute: ox_pf_fl**

**Fullname:** transfer original party private facilities filtering

**Attribute Description** Transfer original party private facilities filtering.

**Attribute: ox_attfl**

**Fullname:** transfer original party attendant filtering

**Attribute Description** Transfer original party attendant filtering.

**Attribute: ax_tg_fl**

**Fullname:** transfer added party terminal group filtering

**Attribute Description** Transfer added party terminal group filtering.

**Attribute: ax_interfl**

**Fullname:** transfer added party inter-office filtering

**Attribute Description** Transfer added party inter-office filtering.

**Attribute: ax_intrafl**

**Fullname:** transfer added party intra-office filtering

**Attribute Description** Transfer added party intra_office filtering.

**Attribute: ax_pf_fl**

**Fullname:** transfer added party private facilities filtering

**Attribute Description** Transfer added party private facilities filtering.

**Attribute: ax_attfl**

**Fullname:** transfer added party attendant filtering

**Attribute Description** Transfer added party attendant filtering.

**Attribute: px_tg_fl**

**Fullname:** transfer parties present terminal group filtering

**Attribute Description** Transfer parties present terminal group filtering.

**Attribute: px_interfl**

**Fullname:** transfer parties present inter-office filtering

**Attribute Description** Transfer parties present inter-office filtering.

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**Attribute: px_intrafl**

**Fullname:** transfer parties present intra-office filtering

**Attribute Description** Transfer parties present intra-office filtering.

**Attribute: px_pf_fl**

**Fullname:** transfer parties present private facilities filtering

**Attribute Description** Transfer parties present private facilities filtering.

**Attribute: bill_flat**

**Fullname:** bill flat rate

**Attribute Description** Bill flat rate - no usage sensitive.

**Attribute: bill_uf1**

**Fullname:** bill usage frequency charge - for use of event 1

**Attribute Description** Bill usage frequency charge - for use of event 1.

**Attribute: bill_uf2**

**Fullname:** bill usage frequency charge - for use of event 2

**Attribute Description** Bill usage frequency charge - for use of event 2.

**Attribute: bill_uf3**

**Fullname:** bill usage frequency charge - for use of event 3

**Attribute Description** Bill usage frequency charge - for use of event 3.

**Attribute: bill_uf4**

**Fullname:** bill usage frequency charge - for use of event 4

**Attribute Description** Bill usage frequency charge - for use of event 4.

**Attribute: bill_actchrg**

**Fullname:** bill usage charge for activation

**Attribute Description** Bill usage charge for activation.

**Attribute: bill_dactchrg**

**Fullname:** bill usage charge for deactivation

**Attribute Description** Bill usage charge for deactivation.

**Attribute: bill_duration**

**Fullname:** bill usage charge for duration of use

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**Attribute Description** Bill usage charge for duration of use.

**Attribute: bill_change**

**Fullname:** bill usage for change of parameter

**Attribute Description** Bill usage charge for change of parameters.

**Attribute: px_attfl**

**Fullname:** transfer parties present attendant filtering

**Attribute Description** Transfer parties present attendant filtering.

**Attribute: nw_tg_fl**

**Fullname:** N-way xfer parties present terminal group filtering

**Attribute Description** N-way xfer parties present terminal group filtering.

**Attribute: nw_interfl**

**Fullname:** N-way xfer parties present inter-office filtering

**Attribute Description** N-way xfer parties present inter-office filtering.

**Attribute: nw_intrafl**

**Fullname:** N-way xfer parties present intra-office filtering

**Attribute Description** N-way xfer parties present intra-office filtering.

**Attribute: nw_pf_fl**

**Fullname:** N-way xfer parties present private facilities filtering

**Attribute Description** N-way xfer parties present private facilities filtering.

**Attribute: nw_attfl**

**Fullname:** N-way xfer parties present attendant filtering

**Attribute Description** N-way xfer parties present attendant filtering.

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# MWCFDFL

## 1. Description

This relation contains the multiway constructed feature and defaults. This is used in IM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| expected number of tuples | 59 |
| density | 90 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
MWCFDFL     relid = 556   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP


     tone_durn    DMMC_YTONE    (ushort: 12)
     cntrl        DMMWCNTL      (enum: 4)
     feat_id      DMFID         (ushort: 10)      <--- key
 (a) pty_dep_tn   DMMC_TONE     (enum: 3)
     actvn        DMMC_ACTYP    (enum: 3)
     n_way        DMMWN         (enum: 3)
 (b) xfer         DMMWXFER      (enum: 2)
 (c) ps_pd        DMMWPSIG      (enum: 2)
 (d) epflash      DMBOOL        (enum: 1)
 (e) dctvn        DMMC_DCTYP    (enum: 2)
 (f) ot_hldfl     DMMWFLTR      (enum: 2)
 (g) ot_3wyfl     DMMWFLTR      (enum: 2)
 (h) ot_xfrfl     DMMWFLTR      (enum: 2)
 (i) epin_mid     DMBOOL        (enum: 1)
 (j) epoff_hk     DMBOOL        (enum: 1)
 (k) epfr_cw      DMBOOL        (enum: 1)
 (l) epfr_pu      DMBOOL        (enum: 1)
 (m) epis_button  DMBOOL        (enum: 1)
 (n) epis_dialcd  DMBOOL        (enum: 1)
 (o) epis_fr_pu   DMBOOL        (enum: 1)
 (p) episa_dialcd  DMBOOL       (enum: 1)
 (q) fl_bfr_ans   DMBOOL        (enum: 1)
 (r) splt_last_pty  DMBOOL      (enum: 1)
 (s) sigc_3way    DMBOOL        (enum: 1)
 (t) sigc_hold    DMBOOL        (enum: 1)
 (u) three_way_ind  DMBOOL      (enum: 1)
 (v) oh_tg_fl     DMBOOL        (enum: 1)
 (w) oh_interfl   DMBOOL        (enum: 1)
 (x) oh_intrafl   DMBOOL        (enum: 1)
 (y) oh_pf_fl     DMBOOL        (enum: 1)
 (z) oh_attfl     DMBOOL        (enum: 1)
 (A) ah_tg_fl     DMBOOL        (enum: 1)
 (B) ah_interfl   DMBOOL        (enum: 1)
 (C) ah_intrafl   DMBOOL        (enum: 1)
```

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```
(D) ah_pf_fl    DMBOOL       (enum: 1)
(E) ah_attfl    DMBOOL       (enum: 1)
(F) o3_tg_fl    DMBOOL       (enum: 1)
(G) o3_interfl  DMBOOL       (enum: 1)
(H) o3_intrafl  DMBOOL       (enum: 1)
(I) o3_pf_fl    DMBOOL       (enum: 1)
(J) o3_attfl    DMBOOL       (enum: 1)
(K) a3_tg_fl    DMBOOL       (enum: 1)
(L) a3_interfl  DMBOOL       (enum: 1)
(M) a3_intrafl  DMBOOL       (enum: 1)
(N) a3_pf_fl    DMBOOL       (enum: 1)
(O) a3_attfl    DMBOOL       (enum: 1)
(P) ox_tg_fl    DMBOOL       (enum: 1)
(Q) ox_interfl  DMBOOL       (enum: 1)
(R) ox_intrafl  DMBOOL       (enum: 1)
(S) ox_pf_fl    DMBOOL       (enum: 1)
(T) ox_attfl    DMBOOL       (enum: 1)
(U) ax_tg_fl    DMBOOL       (enum: 1)
(V) ax_interfl  DMBOOL       (enum: 1)
(W) ax_intrafl  DMBOOL       (enum: 1)
(X) ax_pf_fl    DMBOOL       (enum: 1)
(Y) ax_attfl    DMBOOL       (enum: 1)
(Z) px_tg_fl    DMBOOL       (enum: 1)
(a) px_interfl  DMBOOL       (enum: 1)
(b) px_intrafl  DMBOOL       (enum: 1)
(c) px_pf_fl    DMBOOL       (enum: 1)
(d) bill_flat   DMBOOL       (enum: 1)
(e) bill_uf1    DMBOOL       (enum: 1)
(f) bill_uf2    DMBOOL       (enum: 1)
(g) bill_uf3    DMBOOL       (enum: 1)
(h) bill_uf4    DMBOOL       (enum: 1)
(i) bill_actchrg  DMBOOL       (enum: 1)
(j) bill_dactchrg  DMBOOL       (enum: 1)
(k) bill_duration  DMBOOL       (enum: 1)
(l) bill_change  DMBOOL       (enum: 1)
(m) px_attfl    DMBOOL       (enum: 1)
(n) nw_tg_fl    DMBOOL       (enum: 1)
(o) nw_interfl  DMBOOL       (enum: 1)
(p) nw_intrafl  DMBOOL       (enum: 1)
(q) nw_pf_fl    DMBOOL       (enum: 1)
(r) nw_attfl    DMBOOL       (enum: 1)
    dir_conn_dn  DMDN         (struct) <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
           User Tuple Layout   MWCFDFL
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                       |       |                       |     |     |
 0 |       tone_durn       | cntrl |      feat_id          |  a  |actvn|
   |---------------+---------------+---------------+---------------|
   |     |   |   | |   |   |   |   | | | | | | | | | | | | | | | | |
 4 |n_way| b | c |d| e | f | g | h |i|j|k|l|m|n|o|p|q|r|s|t|u|v|w|x|
   |---------------+---------------+---------------+---------------|
```

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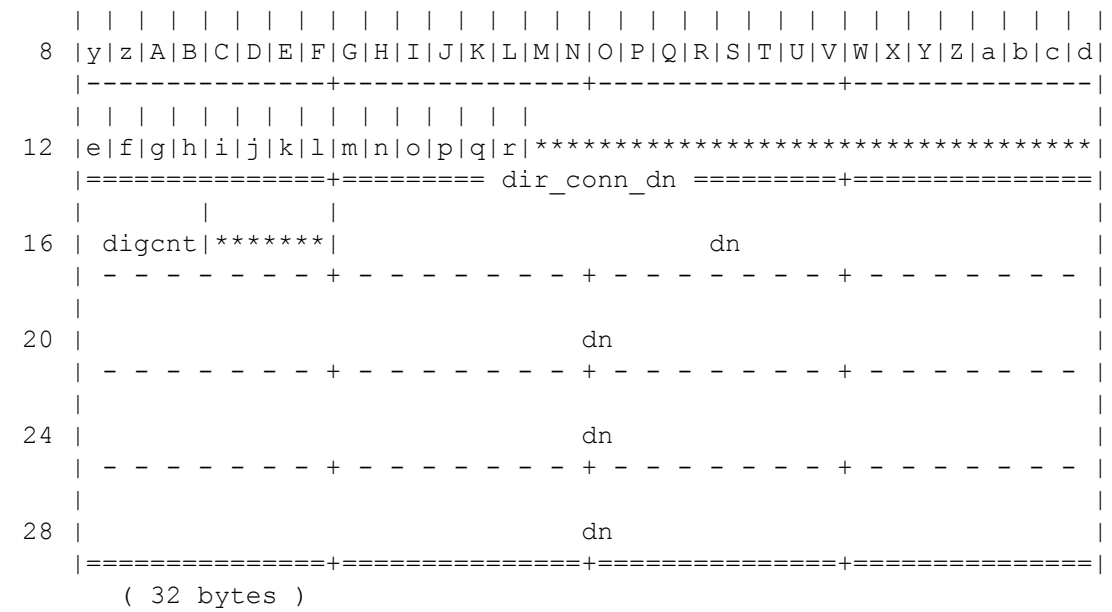


```
    tone_durn    DMMC_YTONE    (ushort: 12)
    cntrl        DMMWCNTL      (enum: 4)
    feat_id      DMFID         (ushort: 10)      <--- key
(a) pty_dep_tn   DMMC_TONE     (enum: 3)
    actvn        DMMC_ACTYP    (enum: 3)
    n_way        DMMWN         (enum: 3)
(b) xfer         DMMWXFER      (enum: 2)
(c) ps_pd        DMMWPSIG      (enum: 2)
(d) epflash      DMBOOL        (enum: 1)
(e) dctvn        DMMC_DCTYP    (enum: 2)
(f) ot_hldfl     DMMWFLTR      (enum: 2)
(g) ot_3wyfl     DMMWFLTR      (enum: 2)
(h) ot_xfrfl     DMMWFLTR      (enum: 2)
(i) epin_mid     DMBOOL        (enum: 1)
(j) epoff_hk     DMBOOL        (enum: 1)
(k) epfr_cw      DMBOOL        (enum: 1)
(l) epfr_pu      DMBOOL        (enum: 1)
(m) epis_button  DMBOOL        (enum: 1)
(n) epis_dialcd  DMBOOL        (enum: 1)
(o) epis_fr_pu   DMBOOL        (enum: 1)
(p) episa_dialcd  DMBOOL       (enum: 1)
(q) fl_bfr_ans   DMBOOL        (enum: 1)
(r) splt_last_pty  DMBOOL      (enum: 1)
(s) sigc_3way    DMBOOL        (enum: 1)
(t) sigc_hold    DMBOOL        (enum: 1)
(u) three_way_ind  DMBOOL      (enum: 1)
(v) oh_tg_fl     DMBOOL        (enum: 1)
(w) oh_interfl   DMBOOL        (enum: 1)
(x) oh_intrafl   DMBOOL        (enum: 1)
(y) oh_pf_fl     DMBOOL        (enum: 1)
(z) oh_attfl     DMBOOL        (enum: 1)
(A) ah_tg_fl     DMBOOL        (enum: 1)
(B) ah_interfl   DMBOOL        (enum: 1)
```

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```
(C) ah_intrafl  DMBOOL       (enum: 1)
(D) ah_pf_fl    DMBOOL       (enum: 1)
(E) ah_attfl    DMBOOL       (enum: 1)
(F) o3_tg_fl    DMBOOL       (enum: 1)
(G) o3_interfl  DMBOOL       (enum: 1)
(H) o3_intrafl  DMBOOL       (enum: 1)
(I) o3_pf_fl    DMBOOL       (enum: 1)
(J) o3_attfl    DMBOOL       (enum: 1)
(K) a3_tg_fl    DMBOOL       (enum: 1)
(L) a3_interfl  DMBOOL       (enum: 1)
(M) a3_intrafl  DMBOOL       (enum: 1)
(N) a3_pf_fl    DMBOOL       (enum: 1)
(O) a3_attfl    DMBOOL       (enum: 1)
(P) ox_tg_fl    DMBOOL       (enum: 1)
(Q) ox_interfl  DMBOOL       (enum: 1)
(R) ox_intrafl  DMBOOL       (enum: 1)
(S) ox_pf_fl    DMBOOL       (enum: 1)
(T) ox_attfl    DMBOOL       (enum: 1)
(U) ax_tg_fl    DMBOOL       (enum: 1)
(V) ax_interfl  DMBOOL       (enum: 1)
(W) ax_intrafl  DMBOOL       (enum: 1)
(X) ax_pf_fl    DMBOOL       (enum: 1)
(Y) ax_attfl    DMBOOL       (enum: 1)
(Z) px_tg_fl    DMBOOL       (enum: 1)
(a) px_interfl  DMBOOL       (enum: 1)
(b) px_intrafl  DMBOOL       (enum: 1)
(c) px_pf_fl    DMBOOL       (enum: 1)
(d) bill_flat   DMBOOL       (enum: 1)
(e) bill_uf1    DMBOOL       (enum: 1)
(f) bill_uf2    DMBOOL       (enum: 1)
(g) bill_uf3    DMBOOL       (enum: 1)
(h) bill_uf4    DMBOOL       (enum: 1)
(i) bill_actchrg  DMBOOL       (enum: 1)
(j) bill_dactchrg  DMBOOL       (enum: 1)
(k) bill_duration  DMBOOL       (enum: 1)
(l) bill_change  DMBOOL       (enum: 1)
(m) px_attfl    DMBOOL       (enum: 1)
(n) nw_tg_fl    DMBOOL       (enum: 1)
(o) nw_interfl  DMBOOL       (enum: 1)
(p) nw_intrafl  DMBOOL       (enum: 1)
(q) nw_pf_fl    DMBOOL       (enum: 1)
(r) nw_attfl    DMBOOL       (enum: 1)
    dir_conn_dn  DMCDN        (struct) <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
```

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```
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
         Compacted Tuple Layout    MWCFDFL
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                       |       |                   |     |     |
 0 |       tone_durn       | cntrl |      feat_id      |  a  |actvn|
   |---------------+---------------+---------------+---------------|
   |     |   |   | |   |   |   |   | | | | | | | | | | | | | | | |
 4 |n_way| b | c |d| e | f | g | h |i|j|k|l|m|n|o|p|q|r|s|t|u|v|w|x|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 8 |y|z|A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z|a|b|c|d|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | |                               |
12 |e|f|g|h|i|j|k|l|m|n|o|p|q|r|*******************************|
   |===============+========= dir_conn_dn =========+===============|
   |       |       |       |       |       |       |       |       |
16 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
20 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
   |===============+===============+===============+===============|
   |                                                               |
24 |***************************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
28 |***************************************************************|
   |---------------+---------------+---------------+---------------|
     ( 32 bytes )
```

```
    tone_durn   DMMC_YTONE   (ushort: 12)
    cntrl       DMMWCNTL     (enum: 4)
    feat_id     DMFID        (ushort: 10)      <--- key
(a) pty_dep_tn  DMMC_TONE    (enum: 3)
    actvn       DMMC_ACTYP   (enum: 3)
    n_way       DMMWN        (enum: 3)
(b) xfer        DMMWXFER     (enum: 2)
(c) ps_pd       DMMWPSIG     (enum: 2)
(d) epflash     DMBOOL       (enum: 1)
(e) dctvn       DMMC_DCTYP   (enum: 2)
(f) ot_hldfl    DMMWFLTR     (enum: 2)
(g) ot_3wyfl    DMMWFLTR     (enum: 2)
(h) ot_xfrfl    DMMWFLTR     (enum: 2)
(i) epin_mid    DMBOOL       (enum: 1)
(j) epoff_hk    DMBOOL       (enum: 1)
(k) epfr_cw     DMBOOL       (enum: 1)
(l) epfr_pu     DMBOOL       (enum: 1)
(m) epis_button  DMBOOL       (enum: 1)
```

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```
(n) epis_dialcd  DMBOOL       (enum: 1)
(o) epis_fr_pu  DMBOOL       (enum: 1)
(p) episa_dialcd  DMBOOL       (enum: 1)
(q) fl_bfr_ans  DMBOOL       (enum: 1)
(r) splt_last_pty  DMBOOL       (enum: 1)
(s) sigc_3way   DMBOOL       (enum: 1)
(t) sigc_hold   DMBOOL       (enum: 1)
(u) three_way_ind  DMBOOL       (enum: 1)
(v) oh_tg_fl    DMBOOL       (enum: 1)
(w) oh_interfl  DMBOOL       (enum: 1)
(x) oh_intrafl  DMBOOL       (enum: 1)
(y) oh_pf_fl    DMBOOL       (enum: 1)
(z) oh_attfl    DMBOOL       (enum: 1)
(A) ah_tg_fl    DMBOOL       (enum: 1)
(B) ah_interfl  DMBOOL       (enum: 1)
(C) ah_intrafl  DMBOOL       (enum: 1)
(D) ah_pf_fl    DMBOOL       (enum: 1)
(E) ah_attfl    DMBOOL       (enum: 1)
(F) o3_tg_fl    DMBOOL       (enum: 1)
(G) o3_interfl  DMBOOL       (enum: 1)
(H) o3_intrafl  DMBOOL       (enum: 1)
(I) o3_pf_fl    DMBOOL       (enum: 1)
(J) o3_attfl    DMBOOL       (enum: 1)
(K) a3_tg_fl    DMBOOL       (enum: 1)
(L) a3_interfl  DMBOOL       (enum: 1)
(M) a3_intrafl  DMBOOL       (enum: 1)
(N) a3_pf_fl    DMBOOL       (enum: 1)
(O) a3_attfl    DMBOOL       (enum: 1)
(P) ox_tg_fl    DMBOOL       (enum: 1)
(Q) ox_interfl  DMBOOL       (enum: 1)
(R) ox_intrafl  DMBOOL       (enum: 1)
(S) ox_pf_fl    DMBOOL       (enum: 1)
(T) ox_attfl    DMBOOL       (enum: 1)
(U) ax_tg_fl    DMBOOL       (enum: 1)
(V) ax_interfl  DMBOOL       (enum: 1)
(W) ax_intrafl  DMBOOL       (enum: 1)
(X) ax_pf_fl    DMBOOL       (enum: 1)
(Y) ax_attfl    DMBOOL       (enum: 1)
(Z) px_tg_fl    DMBOOL       (enum: 1)
(a) px_interfl  DMBOOL       (enum: 1)
(b) px_intrafl  DMBOOL       (enum: 1)
(c) px_pf_fl    DMBOOL       (enum: 1)
(d) bill_flat   DMBOOL       (enum: 1)
(e) bill_uf1    DMBOOL       (enum: 1)
(f) bill_uf2    DMBOOL       (enum: 1)
(g) bill_uf3    DMBOOL       (enum: 1)
(h) bill_uf4    DMBOOL       (enum: 1)
(i) bill_actchrg  DMBOOL       (enum: 1)
(j) bill_dactchrg  DMBOOL       (enum: 1)
(k) bill_duration  DMBOOL       (enum: 1)
(l) bill_change  DMBOOL       (enum: 1)
(m) px_attfl    DMBOOL       (enum: 1)
(n) nw_tg_fl    DMBOOL       (enum: 1)
(o) nw_interfl  DMBOOL       (enum: 1)
```

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```
(p) nw_intrafl  DMBOOL       (enum: 1)
(q) nw_pf_fl    DMBOOL       (enum: 1)
(r) nw_attfl    DMBOOL       (enum: 1)
    dir_conn_dn  DMCDN        (struct) <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
          Stored Tuple Layout      MWCFDFL
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                       |       |                   |     |     |
 0 |       tone_durn       | cntrl |      feat_id      |  a  |actvn|
   |---------------+---------------+---------------+---------------|
   |     |   |   | |   |   |   |   | | | | | | | | | | | | | | | |
 4 |n_way| b | c |d| e | f | g | h |i|j|k|l|m|n|o|p|q|r|s|t|u|v|w|x|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 8 |y|z|A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z|a|b|c|d|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | |                               |
12 |e|f|g|h|i|j|k|l|m|n|o|p|q|r|*******************************|
   |===============+========= dir_conn_dn =========+===============|
   |       |       |       |       |       |       |       |       |
16 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
20 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
   |===============+===============+===============+===============|
      ( 24 bytes )
```

## 4. Population rules for RLmwcfdfl

### Relation Description

Multiway (MW) constructed feature

This relation is for multiway constructed features in modular feature customization (MFC) capability. The relation defines options and the default parameters for the MW features. There is another relation RLmwcf that

contains only the options. These two relations are interdependent in the sense that whenever an MW feature is constructed, the options in these two relations are populated with exactly the same values. In other words, if a tuple is found with a given feature ID in RLmwcfdl, In other words, if a tuple is found with a given feature id in RLmwcfdfl, there must be a tuple in RLmwcf with the same feature ID, and consequently, all attributes related to the options must be the same.

The inter-relationship between RLmwcf and RLmwcfdfl has been described in the description section. The checks for the option attributes have been described in populations rules language (PRL) for RLmwcf. The check for RLmwcfdfl.feat_id attribute will ensure that these relations are correctly populated by office data administration (ODA).

**Attribute:**
feat_id
**Fullname:**
Feature identifier
**Attribute Description:**
This identifies which business and residential customer service (BRCS) modular feature is identified via this data. A BRCS feature consists of modular feature type defined in db/DMmfttype.G (top six bits, 10 through 15) and a unique identifier (bottom ten bits, 0 through 9). The 'mftype', an enumeration, is MFMWY for multiway feature.

**Attribute:**
epflash
**Fullname:**
Entry from flash
**Attribute Description:**
Entry to multiway calling from flash.

**Attribute:**
epin_mid
**Fullname:**
Entry in the middle
**Attribute Description:**
Entry to multiway calling by dialed code (start in the middle of multiway).

**Attribute:**
epoff_hk
**Fullname:**
Entry at off hook
**Attribute Description:**
Entry to multiway calling by dialed code (start off hook).

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**Attribute:**
epfr_cw
**Fullname:**
Entry from call waiting
**Attribute Description:**
Entry to multiway calling from call waiting.

**Attribute:**
epfr_pu
**Fullname:**
Entry from call pickup
**Attribute Description:**
Entry to multiway from call pick up.

**Attribute:**
epis_button
**Fullname:**
Entry from integrated services digital network (ISDN) functional button
**Attribute Description:**
Entry to ISDN multiway calling from ISDN functional button (conference [CONF] or transfer [TRAN]).

**Attribute:**
epis_dialcd
**Fullname:**
Entry to ISDN by dialed code
**Attribute Description:**
Entry to ISDN multiway calling by dialed code or feature button.

**Attribute:**
epis_fr_pu
**Fullname:**
Entry to ISDN from call pick up
**Attribute Description:**
Entry to ISDN multiway calling from call pick up.

**Attribute:**
episa_dialcd
**Fullname:**
Entry to ISDN attendant (ISAT) by dialed code
**Attribute Description:**
Entry to ISAT multiway by dialed code feature button.

**Attribute:**
cntrl

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**Fullname:**
Control
**Attribute Description:**
Indicates which call processing function will be performed by the feature.

**Attribute:**
fl_bfr_ans
**Fullname:**
Flash before answer
**Attribute Description:**
Determines whether a customer flash will be recognized by the switching system before answer.

**Attribute:**
xfer
**Fullname:**
Transfer
**Attribute Description:**
Indicates how the controlling terminal's on hook will effect each of the multiway calling modular (MWC) control component options.

**Attribute:**
pty_dep_tn
**Fullname:**
Party departure tone
**Attribute Description:**
Determines if (and which) special tone is given if a held or non-controlling terminal disconnects.

**Attribute:**
splt_last_pty
**Fullname:**
Split last party
**Attribute Description:**
Allows the controlling terminal to flash any time after forming the initial N-way call with no terminals held and dial a split last party code to remove the last terminal added to the conference.

**Attribute:**
sigc_3way
**Fullname:**
Signal controller for three-way connection
**Attribute Description:**
Signal controller open interval is sent on a three-way connection.

**Attribute:**

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ps_pd

**Fullname:**

Permanent signal (PS)/partial dial (PD) timing

**Attribute Description:**

Signal controller open interval is sent on a hold connection.

**Attribute:**

sigc_hold

**Fullname:**

Signal controller - hold connection

**Attribute Description:**

Signal controller open interval is sent on a hold connection.

**Attribute:**

three_way_ind

**Fullname:**

Three-way indicator

**Attribute Description:**

Determines if an indication is given to the non-controlling parties when entering three-way speech.

**Attribute:**

actvn

**Fullname:**

Activation

**Attribute Description:**

Specifies the types of activation allowed for this feature.

**Attribute:**

dctvn

**Fullname:**

Deactivation

**Attribute Description:**

Specifies the types of deactivation allowed for this feature.

**Attribute:**

ot_hldfl

**Fullname:**

Hold originating/terminating filtering

**Attribute Description:**

Hold original party terminal group filtering.

**Attribute:**

oh_tg_fl

**Fullname:**

Hold original party terminal group filtering

**Attribute Description:**

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Hold original party terminal group filtering.

**Attribute:**
oh_interfl
**Fullname:**
Hold original party inter-office filtering
**Attribute Description:**
Hold original party inter-office filtering.

**Attribute:**
oh_intrafl
**Fullname:**
Hold original party intra-office filtering
**Attribute Description:**
Hold original party intra-office filtering.

**Attribute:**
oh_pf_fl
**Fullname:**
Hold original party private facilities filtering
**Attribute Description:**
Hold original party private facilities filtering.

**Attribute:**
oh_attfl
**Fullname:**
Hold original party attendant filtering
**Attribute Description:**
Hold original party attendant filtering.

**Attribute:**
ah_tg_fl
**Fullname:**
Hold added party terminal group filtering
**Attribute Description:**
Hold added party terminal group filtering.

**Attribute:**
ah_interfl
**Fullname:**
Hold added party inter-office filtering
**Attribute Description:**
Hold added party inter-office filtering.

**Attribute:**
ah_intrafl

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**Fullname:**
Hold added party intra-office filtering
**Attribute Description:**
Hold added party intra-office filtering.

**Attribute:**
ah_pf_fl
**Fullname:**
Hold added party private facilities filtering
**Attribute Description:**
Hold added party private facilities filtering.

**Attribute:**
ah_attfl
**Fullname:**
Hold added party attendant filtering
**Attribute Description:**
Hold added party attendant filtering.

**Attribute:**
ot_3wyfl
**Fullname:**
Filtering after creation of three-way call
**Attribute Description:**
Filtering is done on the original call after the controlling terminal flashes to create a three-way call.

**Attribute:**
o3_tg_fl
**Fullname:**
Three-way original party terminal group filtering
**Attribute Description:**
Three-way original party terminal group filtering.

**Attribute:**
o3_interfl
**Fullname:**
Three-way original party inter-office filtering
**Attribute Description:**
Three-way original party inter-office filtering.

**Attribute:**
o3_intrafl
**Fullname:**
Three-way original party intra-office filtering
**Attribute Description:**
Three-way original party intra-office filtering.

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**Attribute:**
o3_pf_fl
**Fullname:**
Three-way original party private facilities filtering
**Attribute Description:**
Three-way original party private facilities filtering.

**Attribute:**
o3_attfl
**Fullname:**
Three-way original party attendant filtering
**Attribute Description:**
Three-way original party attendant filtering.

**Attribute:**
a3_tg_fl
**Fullname:**
Three-way added party terminal group filtering
**Attribute Description:**
Three-way added party terminal group filtering.

**Attribute:**
a3_interfl
**Fullname:**
Three-way added party inter-office filtering
**Attribute Description:**
Three-way added party inter-office filtering.

**Attribute:**
a3_intrafl
**Fullname:**
Three-way added party intra-office filtering
**Attribute Description:**
Three-way added party intra-office filtering.

**Attribute:**
a3_pf_fl
**Fullname:**
Three-way added party private facilities filtering
**Attribute Description:**
Three-way added party private facilities filtering.

**Attribute:**
a3_attfl
**Fullname:**

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Three-way added party attendant filtering
**Attribute Description:**
Three-way added party attendant filtering.

**Attribute:**
ot_xfrfl
**Fullname:**
Filtering on original call
**Attribute Description:**
Filtering is done on the original call after the controlling terminal goes on hook with a terminal or terminals.

**Attribute:**
ox_tg_fl
**Fullname:**
Transfer original party terminal group filtering
**Attribute Description:**
Transfer original party terminal group filtering.

**Attribute:**
ox_interfl
**Fullname:**
Transfer original party inter-office filtering
**Attribute Description:**
Transfer original party inter-office filtering.

**Attribute:**
ox_intrafl
**Fullname:**
Transfer original party intra-office filtering
**Attribute Description:**
Transfer original party intra-office filtering.

**Attribute:**
ox_pf_fl
**Fullname:**
Transfer original party private facilities filtering
**Attribute Description:**
Transfer original party private facilities filtering.

**Attribute:**
ox_attfl
**Fullname:**
Transfer original party attendant filtering
**Attribute Description:**
Transfer original party attendant filtering.

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**Attribute:**
ax_tg_fl
**Fullname:**
Transfer added party terminal group filtering
**Attribute Description:**
Transfer added party terminal group filtering.

**Attribute:**
ax_interfl
**Fullname:**
Transfer added party inter-office filtering
**Attribute Description:**
Transfer added party inter-office filtering.

**Attribute:**
ax_intrafl
**Fullname:**
Transfer added party intra-office filtering
**Attribute Description:**
Transfer added party intra-office filtering.

**Attribute:**
ax_pf_fl
**Fullname:**
Transfer added party private facilities filtering
**Attribute Description:**
Transfer added party private facilities filtering.

**Attribute:**
ax_attfl
**Fullname:**
Transfer added party attendant filtering
**Attribute Description:**
Transfer added party attendant filtering.

**Attribute:**
px_tg_fl
**Fullname:**
Transfer parties present terminal group filtering
**Attribute Description:**
Transfer parties present terminal group filtering.

**Attribute:**
px_interfl
**Fullname:**

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Transfer parties present inter-office filtering
**Attribute Description:**
Transfer parties present inter-office filtering.

**Attribute:**
px_intrafl
**Fullname:**
Transfer parties present intra-office filtering
**Attribute Description:**
Transfer parties present intra-office filtering.

**Attribute:**
px_pf_fl
**Fullname:**
Transfer parties present private facilities filtering
**Attribute Description:**
Transfer parties present private facilities filtering.

**Attribute:**
bill_flat
**Fullname:**
Bill flat rate
**Attribute Description:**
Bill flat rate - no usage sensitive charge.

**Attribute:**
bill_uf1
**Fullname:**
Bill usage frequency charge for use of event 1
**Attribute Description:**
Bill usage frequency charge for use of event 1.

**Attribute:**
bill_uf2
**Fullname:**
Bill usage frequency charge for use of event 2
**Attribute Description:**
Bill usage frequency charge for use of event 2.

**Attribute:**
bill_uf3
**Fullname:**
Bill usage frequency charge for use of event 3
**Attribute Description:**
Bill usage frequency charge for use of event 3.

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**Attribute:**
bill_uf4
**Fullname:**
Bill usage frequency charge for use of event 4
**Attribute Description:**
Bill usage frequency charge for use of event 4.

**Attribute:**
bill_actchrg
**Fullname:**
Bill usage charge for activation
**Attribute Description:**
Bill usage charge for activation.

**Attribute:**
bill_dactchrg
**Fullname:**
Bill usage charge for deactivation
**Attribute Description:**
Bill usage charge for deactivation.

**Attribute:**
bill_duration
**Fullname:**
Bill usage charge for duration of use
**Attribute Description:**
Bill usage charge for duration of use.

**Attribute:**
bill_change
**Fullname:**
Bill usage charge for change of parameter
**Attribute Description:**
Bill usage charge for change of parameter.

**Attribute:**
n_way
**Fullname:**
Number of terminal in multiway
**Attribute Description:**
Indicates maximum number of terminals that may be involved in an N-way call.

**Attribute:**
px_attfl
**Fullname:**
Transfer parties present attendant filtering

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**Attribute Description:**
Transfer parties present attendant filtering.

**Attribute:**
nw_tg_fl
**Fullname:**
N-way terminal group filtering
**Attribute Description:**
N-way terminal group filtering.

**Attribute:**
nw_interfl
**Fullname:**
N-way transfer parties present inter-office filtering
**Attribute Description:**
N-way transfer parties present inter-office filtering.

**Attribute:**
nw_intrafl
**Fullname:**
N-way transfer parties present intra-office filtering
**Attribute Description:**
N-way transfer parties present intra-office filtering.

**Attribute:**
tone_durn
**Fullname:**
Tone duration
**Attribute Description:**
Indicates party departure tone duration in milliseconds.

**Attribute:**
nw_pf_fl
**Fullname:**
N-way transfer parties present private facilities filtering
**Attribute Description:**
N-way transfer parties present private facilities filtering.

**Attribute:**
nw_attfl
**Fullname:**
N-way transfer parties present attendant filtering
**Attribute Description:**
N-way transfer parties present attendant filtering.

**Attribute:**

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dir_conn_dn

**Fullname:**

Direct connect directory number (DN)

**Attribute Description:**

Indicates direct connect prestored extended digit string.

Range of values: 15 digits.
Default value: No default or NULL.

If dir_conn_dn.digcnt is greater than zero then RLmwcfdfl.cntrl is equal to DIR_CONN.

**Attribute:**

dir_conn_dn.digcnt

**Fullname:**

Direct connect digit count

**Attribute Description:**

Indicates the number of prestores digit count.

**Attribute:**

dir_conn_dn.dn

**Fullname:**

Direct connect directory number

**Attribute Description:**

Direct connect directory number.

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# MWDN_G

## 1. Description

Storage relation for directory number (DN) attribute.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| expected tuples | 50 |
| memory type | DBPRAM |
| access type | DBACC_GK |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTORAGE |
| head page size | 1024 |
| data page size | 512 |
| page level | 2 |
| index length | 0 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel reverse index | rlMWDN_I |

## 3. Field Layout

```
MWDN_G      relid = 1753  DBSTORAGE  DBACC_GK    DBPRAM    LPFPFG  RCMAP
     gkMWDN_G    DMGK14       (ulong: 14)  <--- key, not stored
     dn          DMDN         (struct)  <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
            User Tuple Layout    MWDN_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkMWDN_G             |
    |===============+=============  dn =============+===============|
    |       |       |                                                 |
  4 | digcnt|*******|                      dn                         |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
  8 |                               dn                                |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
 12 |                               dn                                |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
 16 |                               dn                                |
    |===============+===============+===============+===============|
       ( 20 bytes )
     gkMWDN_G    DMGK14       (ulong: 14)  <--- key, not stored
     dn          DMCDN        (struct)  <--- compacted
         dig8        DMUNS4       (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
         dig9        DMUNS4       (ushort: 4)
         dig1        DMUNS4       (ushort: 4)
```

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```
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
         Compacted Tuple Layout     MWDN_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkMWDN_G             |
    |===============+=============  dn =============+===============|
    |       |       |       |       |       |       |       |       |
  4 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
  8 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
    |===============+===============+===============+===============|
    |                                                               |
 12 |***************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |***************************************************************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
     dn          DMCDN        (struct)  <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
          Stored Tuple Layout   MWDN_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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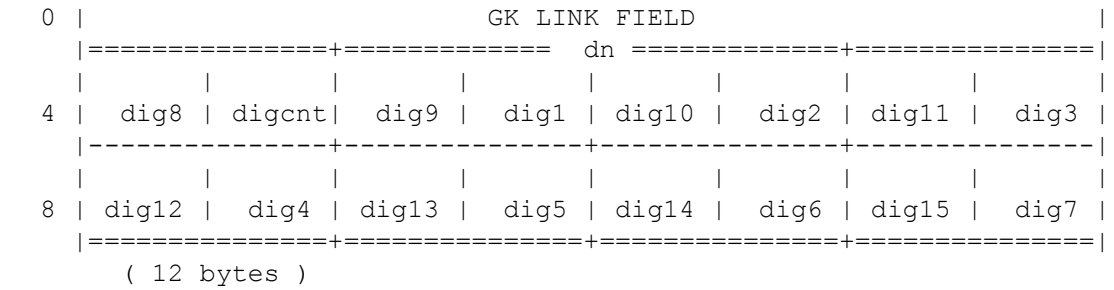


## 4. Population Rules for RLmwdn_g

There are no population rules for this relation.

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# MWPORT

## 1. Description

This relation contains the multiway feature parameters on this port.

This is a virtual relation. The tree diagram Figure 1 depicts the stored structure of virtual relation MWPORT.

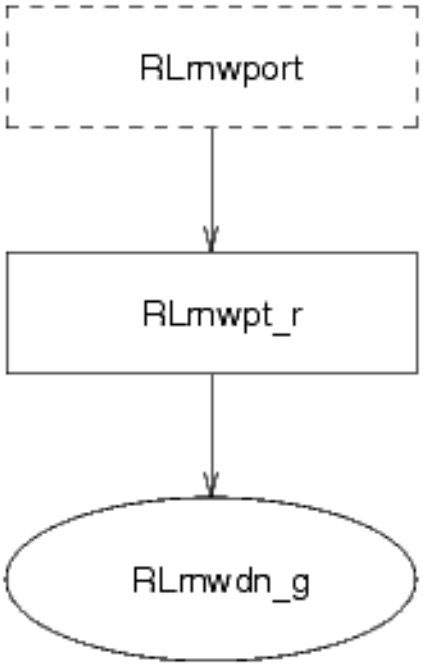


**Figure 1 Virtual Relation MWPORT**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
MWPORT      relid = 518   DBSTATIC   DBACC_OPV   DBNOTODD  LPFPFG  RCMAP


     feat_id     DMMCC_FID    (ushort)  <--- key
     lport       DMLPORT      (ushort: 16)      <--- key
     dir_conn_dn  DMDN         (struct) <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
 (a) lpt_type    DMLPT_TYPE   (enum: 2) <--- key
     tone_durn   DMMC_YTONE   (ushort: 12)
     n_way       DMMWN        (enum: 3)
            User Tuple Layout    MWPORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
```

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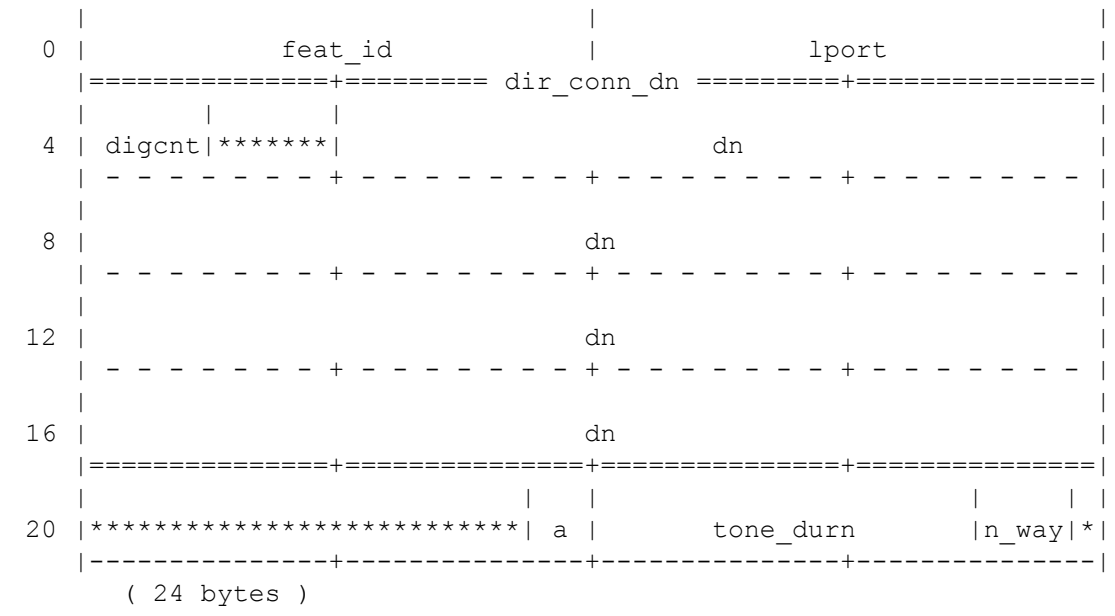
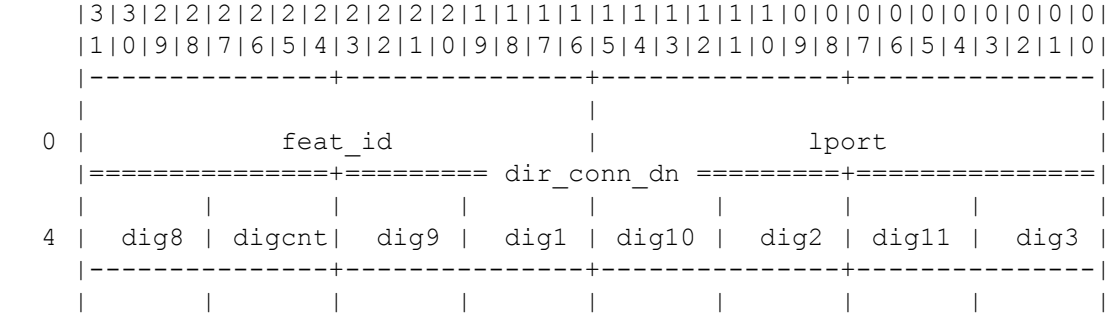



```
    feat_id     DMMCC_FID    (ushort)  <--- key
    lport       DMLPORT      (ushort: 16)      <--- key
    dir_conn_dn  DMCDN        (struct) <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
(a) lpt_type    DMLPT_TYPE   (enum: 2) <--- key
    tone_durn   DMMC_YTONE   (ushort: 12)
    n_way       DMMWN        (enum: 3)
```

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```
  8 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
    |===============+===============+===============+===============|
    |                                                               |
 12 |***************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |***************************************************************|
    |---------------+---------------+---------------+---------------|
    |                             |   |                       |     | |
 20 |*****************************| a |       tone_durn       |n_way|*|
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population rules for RLmwport

**Relation Description**

Multiway calling port.

multiway feature parameters assigned to a BRCS User (a User is defined to be an analog terminal, a trunk, or an ISDN User).

"The following is a list of valid service classes for ports assigned this feature:

| LINES | TRUNKS |
|---|---|
| FC_INDVDL | FC_PFLASH |
| FC_PBX | FC_PFITT |
| FC_ATTENDANT | FC_PF |
| FC_ISDN | |
| FC_ISATND | |
| FC_SATSTLN | |
| FC_4WIRE_INDV | |

NOTE: This special dependency is enforced to save SM ODD memory. A tuple should exist in this relation only when in the constructed feature relation (RLmwcfdfl), keyed by this feat_id, has:
RLmwcfdfl.cntrl = DIR_CONN or
RLmwcfdfl.cntrl = N_WAY or
RLmwcfdfl.pty_dep_tn = TNBEEP1."

**Attribute:**

lport

**Fullname:**

logical port.

**Attribute Description:**

Logical port type of the user being assigned the BRCS features.

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**Attribute:**
lpt_type
**Fullname:**
logical port type.
**Attribute Description:**
Logical port type of the user.

**Attribute:**
feat_id
**Fullname:**
multiway constructed feature id.
**Attribute Description:**
Multiway constructed feature id.

**Attribute:**
dir_conn_dn
**Fullname:**
direct connect prestored extended-digits string.
**Attribute Description:**
direct connect prestored extended-digits string.
Range of Values: 15 digits
Default Value: No default or NULL.
Dependencies:
If dir_conn_dn.digcnt > 0 then RLmwcf.cntrl = DIR_CONN.

**Attribute:**
dir_conn_dn.digcnt
**Fullname:**
digit count.
**Attribute Description:**
digit count.

**Attribute:**
dir_conn_dn.dn
**Fullname:**
directory number.
**Attribute Description:**
directory number.

**Attribute:**
n_way
**Fullname:**
maximum terminals in a n_way call.
**Attribute Description:**
Maximum number of terminals that may be involved in
an N-way call.

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**Attribute:**
tone_durn
**Fullname:**
tone duration.
**Attribute Description:**
party departure tone duration Y milliseconds.

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# MWPT_R

## 1. Description

This relation contains the multiway feature parameters on this port.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 131062 |
| expected number of tuples | 60 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTORAGE |
| density | 12 |
| foldtype | DBGC31 |

## 3. Field Layout

```
MWPT_R      relid = 1754  DBSTORAGE  DBACC_HASH  DBPRAM    LPFPFG  RCMAP


     feat_id     DMMCC_FID    (ushort)  <--- key
     lport       DMLPORT      (ushort: 16)      <--- key
     dnlist      DMGK14       (ulong: 14)
 (a) lpt_type    DMLPT_TYPE   (enum: 2) <--- key
     tone_durn   DMMC_YTONE   (ushort: 12)
     n_way       DMMWN        (enum: 3)
         User, Compacted and Stored Tuple Layout MWPT_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             feat_id           |              lport            |
    |---------------+---------------+---------------+---------------|
    |                           |   |                       |     | |
  4 |           dnlist          | a |       tone_durn       |n_way|*|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLmwpt_r

### Relation Description

There are no population rules for this relation.

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## 2.14 RELATIONS: N

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# NA7CLSLS

## 1. Description

NA7 Combined Link Set component relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 32 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
NA7CLSLS    relid = 2544  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     cls          DMUNS7       (ushort: 7)     <--- key
     ls1          DMUNS7       (ushort: 7)
     ls2          DMUNS7       (ushort: 7)
     clsindx      DMUNS5       (ushort: 5)
         User, Compacted and Stored Tuple Layout   NA7CLSLS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |   |               |         |       |
  0 |      cls      |      ls1      |***|      ls2      | clsindx |*******|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLna7clsls

**Relation Description**
NA7 Combined Link Set Component Relation

This relation provides the information for the North American CCS7 (NA7) combined link set (CLS). For every NA7 CLS, it provides the link set1, link set2, and the associated CLS index.

**Attribute: cls**

**Fullname:** Combined Link Set.

**Attribute Description** This attribute defines the combine link set.

**Attribute: ls1**

**Fullname:** First Component Link Set.

**Attribute Description** This attribute defines the first component link set of the combined link set.

**Attribute: ls2**

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**Fullname:** Second Component Link Set.

**Attribute Description** This attribute is the second component link set of the combined link set.

**Attribute: clsindx**

**Fullname:** Combined Link Set Index.

**Attribute Description** The combined link set index is obtained from the next available combined link set index in the RLindx relation. Read the RLindx relation with the CCNACLSIDX key. Increment the max_idx attribute by one, and assign the value to the clsindx. Finally update the RLindx tuple. This attribute is defined by the data population process.

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# NA7CLUST

## 1. Description

This relation contains the North American CCS7 (NA7) cluster data. The purpose of this relation is to identify which members of cluster are populated. Each tuple contains one bit per member of the network/cluster.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 255 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| padding indicator | unpadded |
| permutation type | un_perm |

## 3. Field Layout

```
NA7CLUST    relid = 2542  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     network     DMUNS8       (ushort: 8) <--- key
     cluster     DMUNS8       (ushort: 8) <--- key
     clust_ind   DMUNS16      (ushort)
     mbr_map1    DMHEX32      (ulong)
     mbr_map2    DMHEX32      (ulong)
     mbr_map3    DMHEX32      (ulong)
     mbr_map4    DMHEX32      (ulong)
     mbr_map5    DMHEX32      (ulong)
     mbr_map6    DMHEX32      (ulong)
     mbr_map7    DMHEX32      (ulong)
     mbr_map8    DMHEX32      (ulong)
     lsmap1      DMHEX32      (ulong)
     lsmap2      DMHEX32      (ulong)
     lsmap3      DMHEX32      (ulong)

         User, Compacted and Stored Tuple Layout   NA7CLUST
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |    network    |    cluster    |           clust_ind           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            mbr_map1                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                            mbr_map2                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                            mbr_map3                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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```
 16 |                            mbr_map4                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                            mbr_map5                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 24 |                            mbr_map6                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 28 |                            mbr_map7                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 32 |                            mbr_map8                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 36 |                             lsmap1                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 40 |                             lsmap2                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 44 |                             lsmap3                            |
    |---------------+---------------+---------------+---------------|
      ( 48 bytes )

domain alNA7CLUST struct  (5 sub-attributes)
        network     .2.fake      (ushort)
        cluster     .3.fake      (ushort)
        clust_ind   unsigned short (ushort)
        mbr_map     .4.fake      (array [ 8 ] of unsigned long )
        lsmap       .5.fake      (array [ 3 ] of unsigned long )
                    Structure Layout    alNA7CLUST
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |    network    |    cluster    |           clust_ind           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            mbr_map                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                            mbr_map                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                            mbr_map                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                            mbr_map                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                            mbr_map                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
```

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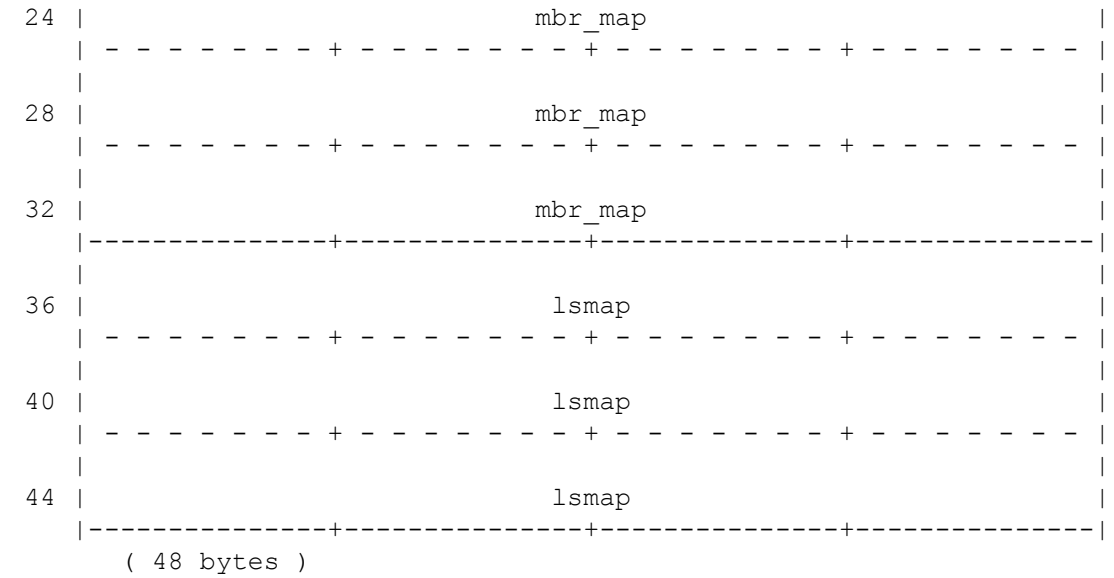


## 4. Population rules for RLna7clust

### Relation Description

This relation contains NA7 cluster data for the STPI
This relation contains NA7 cluster data for the STPI. The purpose of this relation is to identify which members of cluster are populated. Each tuple contains one bit per member of the network/cluster.

**Attribute:**
network
**Fullname:**
Specifies the carrier.
**Attribute Description:**
This attributes specifies the network type for the cluster management. It is defined by the switch administration.

**Attribute:**
cluster
**Fullname:**
A subset of network
**Attribute Description:**
This attributes defines the cluster of DPCs within a network. This is defined by the switch administration.

**Attribute:**
clust_ind
**Fullname:**
Cluster Index
**Attribute Description:**
The cluster index is defined by the data population process

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**Attribute:**
mbr_map1
**Fullname:**
The Destination Point Code Indexes (0-31) served by this cluster.
**Attribute Description:**
This bit field defines the DPCs served by this cluster. Each bit of this attribute represents a DPC index (0-31).
If the link set is not serving any DPCs, populate with the default value. When set to the default value of 1 (bit 0 set), this attribute represents DPC index 0 which is invalid. This condition is used only to indicate that the cluster has not yet been assigned to any DPC index.
This is defined by the data population process.
The format of the bit field follows (bit 0 is the low order bit):

```
|-31-30-29-28- ..... -4--3--2--1--0-| bits
|-----------------------------------|
| D  D  D  D          D  D  D  D  D |
| P  P  P  P  ....... P  P  P  P  P |
| C  C  C  C          C  C  C  C  C | mbr_map1
| I  I  I  I  ....... I  I  I  I  I |
| 31 30 29 28 ....... 4  3  2  1  0 |
|-----------------------------------|
```

**Attribute:**
mbr_map2
**Fullname:**
The Destination Point Code Indexes (32-63) served by this cluster
**Attribute Description:**
This bit field defines the DPCs (32-63) served by this cluster.
Each bit of this attribute represents a DPC index.
The format of the bit field follows (bit 0 is the low order bit):

```
|-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
|----------------------------------------|
| D   D   D   D .......D   D   D   D   D |
| P   P   P   P .......P   P   P   P   P | mbr_map2
| C   C   C   C .......C   C   C   C   C |
| I   I   I   I  ......I   I   I   I   I |
|63  62  61  60.......36  35   34  33  32|
|----------------------------------------|
```

**Attribute:**
mbr_map3
**Fullname:**
The Destination Point Code Indexes (64-95) served by this cluster
**Attribute Description:**
This bit field defines the DPCs (64-95)) served by this cluster.
Each bit of this attribute represents a DPC index.
The format of the bit field follows (bit 0 is the low order bit):

```
|-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
|----------------------------------------|
| D   D   D   D .......D   D   D   D   D |
| P   P   P   P .......P   P   P   P   P | mbr_map3
| C   C   C   C .......C   C   C   C   C |
| I   I   I   I  ......I   I   I   I   I |
```

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```
        | 95  94 93  92 ......60   61  62  63  64|
        |----------------------------------------|
```

**Attribute:**
mbr_map4
**Fullname:**
The Destination Point Code Indexes (96-127) served by this cluster
**Attribute Description:**
This bit field defines the DPCs (96-127)) served by this cluster.
Each bit of this attribute represents a DPC index.
The format of the bit field follows (bit 0 is the low order bit):

```
        |-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
        |----------------------------------------|
        | D   D   D   D .......D   D   D   D   D |
        | P   P   P   P .......P   P   P   P   P | mbr_map4
        | C   C   C   C .......C   C   C   C   C |
        | I   I   I   I  ......I   I   I   I   I |
        |127 126 125 124......100 99  98  97   96|
        |----------------------------------------|
```

**Attribute:**
mbr_map5
**Fullname:**
The Destination Point Code Indexes (128-159) served by this cluster
**Attribute Description:**
This bit field defines the DPCs (128-159)) served by this cluster.
Each bit of this attribute represents a DPC index.
The format of the bit field follows (bit 0 is the low order bit):

```
        |-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
        |----------------------------------------|
        | D   D   D   D .......D   D   D   D   D |
        | P   P   P   P .......P   P   P   P   P | mbr_map5
        | C   C   C   C .......C   C   C   C   C |
        | I   I   I   I  ......I   I   I   I   I |
        |159 158 157 156......132 131 130 129 128|
        |----------------------------------------|
```

**Attribute:**
mbr_map6
**Fullname:**
The Destination Point Code Indexes (160-191) served by this cluster
**Attribute Description:**
This bit field defines the DPCs (160-191)) served by this cluster.
Each bit of this attribute represents a DPC index.

The format of the bit field follows (bit 0 is the low order bit):

```
        |-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
        |----------------------------------------|
        | D   D   D   D .......D   D   D   D   D |
        | P   P   P   P .......P   P   P   P   P | mbr_map6
```

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```
| C   C   C   C .......C   C   C   C   C |
| I   I   I   I  ......I   I   I   I   I |
|191 190 189 188......164 163 162 161 160|
|----------------------------------------|
```

**Attribute:**
mbr_map7
**Fullname:**
The Destination Point Code Indexes (192-223) served by this cluster
**Attribute Description:**
This bit field defines the DPCs (192-223)) served by this cluster. Each bit of this attribute represents a DPC index.

The format of the bit field follows (bit 0 is the low order bit):

```
|-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
|----------------------------------------|
| D   D   D   D .......D   D   D   D   D |
| P   P   P   P .......P   P   P   P   P | mbr_map7
| C   C   C   C .......C   C   C   C   C |
| I   I   I   I  ......I   I   I   I   I |
|223 222 221 220......196 195 194 193 192|
|----------------------------------------|
```

**Attribute:**
mbr_map8
**Fullname:**
The Destination Point Code Indexes (224-255) served by this cluster
**Attribute Description:**
This bit field defines the DPCs (224-255)) served by this cluster. Each bit of this attribute represents a DPC index.

The format of the bit field follows (bit 0 is the low order bit):

```
|-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
|----------------------------------------|
| D   D   D   D .......D   D   D   D   D |
| P   P   P   P .......P   P   P   P   P | mbr_map8
| C   C   C   C .......C   C   C   C   C |
| I   I   I   I  ......I   I   I   I   I |
|255 254 253 252......228 227 226 225 224|
|----------------------------------------|
```

**Attribute:**
lsmap1
**Fullname:**
The link set numbers (0-31) serving this cluster
**Attribute Description:**

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This bit field defines the LSs serving this cluster.
Each bit of this attribute represents a LS number (0-31).
If no link set is serving this cluster, then populate with
the default value. When set to the default value of 1 (bit
0 set), this attribute represents LS number 0 which is
invalid. This condition is used only to indicate that no
link set is serving this cluster.

This is defined by the data population process.

The format of the bit field follows (bit 0 is the low order bit):

```
|-31-30-29-28- ..... -4--3--2--1--0-| bits
|-----------------------------------|
| L  L  L  L          L  L  L  L  L |
| S  S  S  S  ....... S  S  S  S  S | lsmap1
| 31 30 29 28 ....... 4  3  2  1  0 |
|-----------------------------------|
```

**Attribute:**
lsmap2
**Fullname:**
The link set numbers (32-63) serving this cluster
**Attribute Description:**
This bit field defines the LSs serving this cluster.
Each bit of this attribute represents a LS number (32-63).
This is defined by the data population process.

The format of the bit field follows (bit 0 is the low order bit):

```
|-31-30-29-28- ..... -4--3--2--1--0-| bits
|-----------------------------------|
| L  L  L  L          L  L  L  L  L |
| S  S  S  S  ....... S  S  S  S  S | lsmap2
|63 62 61 60  .......36 35 34 33 32 |
|-----------------------------------|
```

**Attribute:**
lsmap3
**Fullname:**
The link set number (64-80) serving this cluster
**Attribute Description:**
This bit field defines the LSs serving this cluster.
Each bit of this attribute represents a LS number (64-80).
This is defined by the data population process.

The format of the bit field follows (bit 0 is the low order bit):

```
|- 31 -30- ... -16-.. -4 - 3 - 2 - 1 - 0-| bits
|----------------------------------------|
|  ..  ..   ..  L .....L   L   L   L   L |
```

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```
|  ..  ..   ..  S .....S   S   S   S   S | lsmap3
|  95  94   .. 80 ....60   61  62  63  64|
|----------------------------------------|
```

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# NAAPCINF

## 1. Description

This relation provides detailed information about a CCS7 adjacent point code and assigned signaling link codes.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 80 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
NAAPCINF    relid = 2545  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     apcindx     DMUNS7       (ushort: 7)     <--- key
     lnkindx     DMUNS7       (ushort: 7)
     lsnum       DMUNS7       (ushort: 7)
     slc         DMUNS4       (ushort: 4)     <--- key
 (a) member      DMUNS3       (ushort: 3)
         User, Compacted and Stored Tuple Layout   NAAPCINF
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |   |               |       |     |   |
  0 |   apcindx     |   lnkindx     |***|    lsnum      |  slc  |  a  |***|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLnaapcinf

**Relation Description**
North American CCS7 (NACCS7) adjacent point code information.

This relation provides detailed information about a NACCS7 adjacent point code and assigned signaling link codes.

**Attribute: apcindx**

**Fullname:** Adjacent point code (APC) index.

**Attribute Description** This attribute is the index assigned to the APC in RLnapc_inf. It is defined by the data population process.

**Attribute: slc**

**Fullname:** Signaling link code.

**Attribute Description** This attribute is the signaling link code *(SLC®)* that identifies a link to the APC. It is defined by switch administration.

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**Attribute: lnkindx**

**Fullname:** Link index

**Attribute Description** This attribute is the link index assigned to this signaling link. If the *SLC*® does not define a link serving the APC, populate with the default value. The link index is obtained from the next value in the CCNALNKIDX tuple of the RLindx relation. In other words, obtain the max_idx attribute of the CCNALNKIDX tuple of the RLindx relation. Increment max_idx by one and assign that value to lnkindx. Then update the CCNALNKIDX tuple.

**Attribute: lsnum**

**Fullname:** Link Set number.

**Attribute Description** The link set number containing the link which is assigned this *SLC*®. It is defined by switch administration. If the *SLC*® does not define a signaling link, populate with the default value.

**Attribute: member**

**Fullname:** Link Set member number.

**Attribute Description** The member number assigned to the signaling link associated with the *SLC*®. This is defined by switch administration. If the *SLC*® does not define a signaling link, populate with the default value.

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# NAILUP

## 1. Description

This relation contains the list of nailed-up ports.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65531 |
| expected tuples in relation | 8 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 28 |
| trigger function | RTnutrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
NAILUP      relid = 701   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     port1       DMPORT       (ushort) <--- key
     port2_member  DMPORT       (ushort)
     port3_member  DMPORT       (ushort)
     dscnum      DMUSHORT     (ushort)
     port2_sm    DMMODULE     (ushort: 8)
     nuloss      DMNULOSS     (enum: 4)
 (a) tc_initsig  DMTCSIG      (enum: 4)
 (b) tc_finisig  DMTCSIG      (enum: 4)
 (c) sigmode     DMDFICHSIG   (enum: 2)
 (d) trwrd       DMTRWRD      (enum: 2)
 (e) control     DMBOOL       (enum: 1)
 (f) dds1        DMBOOL       (enum: 1)
 (g) dds2        DMBOOL       (enum: 1)
 (h) zcs_on      DMBOOL       (enum: 1)
 (i) hairpin     DMBOOL       (enum: 1)
     path1_ds0   DMDS1DS0     (struct)
         ds1name     DMCIRCUIT    (ushort)
         ds1_ts      DMUNS5       (ushort: 5)
     path2_ds0   DMDS1DS0     (struct)
         ds1name     DMCIRCUIT    (ushort)
         ds1_ts      DMUNS5       (ushort: 5)
         User, Compacted and Stored Tuple Layout NAILUP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             port1             |          port2_member         |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |          port3_member         |             dscnum            |
    |---------------+---------------+---------------+---------------|
    |               |       |       |       |   |   | | | | | |     |
  8 |    port2_sm   | nuloss|   a   |   b   | c | d |e|f|g|h|i|*****|
```

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```
    |===============+========== path1_ds0 ==========+===============|
    |                                |          |                    |
 12 |            ds1name             |  ds1_ts  |********************|
    |===============+========== path2_ds0 ==========+===============|
    |                                |          |                    |
 16 |            ds1name             |  ds1_ts  |********************|
    |===============+===============+==========+===============|
       ( 20 bytes )
```

## 4. Population rules for RLnailup

### Relation Description

List of nailed-up ports
Basic nail-up provides the ability to establish a permanent connection between two ports. Connections between the following types of ports are supported:

DEN - Digital Equipment Number,
ILEN - IDCU Line Equipment Number,
NEN - Networking Equipment Number,
INEN - IDLC Network Equipment Number,
SLEN - SLC(R) Equipment Number,
TEN - Trunk Equipment Number

Any of the above port types can be connected in basic nail-up. This also includes ports on RSMs.
SLEN (SLC(R) Equipment Number) nail-up connections are also supported for DCLU. This ability was added by SLC(R) Nail-up (g138) in 5E4(2). Besides DCLU lines, any type of trunk and those lines that terminate on a D-bank coming into DLTU are supported. Each nail-up port must have a corresponding tuple in FC_PORTTYP an if it is a trunk then in FC_TRUNK also.

ILEN (IDCU Line Equipment Numbers which are represented on the RC and ODA forms as the M and G EN types) nail-up and hair-pin connections are supported for IDCU. Hair-pin connections are a subset of nail-ups in which both ends of the connection are on the same IDCU and in which no TSI resources are used in making the connection.

Digital Data Service (DDS) single path nailups and dual path hairpins are supported. Dual Path DDS has many restrictions:

1) only supported on IDCU as a hair-pin
2) for TR008 RTs and PUB43801 facilities, the two Office Equipment (OE) identifiers associated with one end of the hair-pin must be sequential, for TR303 RTs, only one OE is associated with the TR303 RT end of the hair-pin
3) for TR008 RTs, the two OEs must be on the same channel unit, which means that the OE which is represented as the port1 attribute must be ODD and the OE which is represented as the port3_member attribute must be EVEN (NOTE, OE as in ILEN not internal port name !!!)
4) the two paths must be on the same DS1, this is due to

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hardware restrictions of the IDCU TSI
5) the path 1 timeslot must be a lower then the path 2 timeslot
6) the path 1 timeslot and the path 2 timeslot must both be less than or equal to 18 to ensure frame integrity in the IDCU hair-pin TSI
7) for TR008 Mode I RTs, the OE which is represented as the port1 attribute must NOT be 11, 21, 23, 35, 45, 47, 59, 69, 71, 83, 93, 95

INEN (IDLC Network Equipment Numbers which are represented on the RC and ODA forms as the A type) nail-up connections are supported for DNU-S.
Regular single path nailup, Single path DDS nailup, and dual path DDS nailup are supported. Dual Path DDS restrictions:

1) The two paths must be on the same DS1.
2) The path 1 timeslot must be a lower than the path 2 timeslot

**Attribute:**
port1
**Fullname:**
Port being nailed-up on this SM.
**Attribute Description:**
Identifies nailed-up port on this SM.

**Attribute:**
port2_member
**Fullname:**
Far end nailed-up port with port1.
**Attribute Description:**
Identifies far end (port2_member) nailed-up port with port1.

**Attribute:**
port2_sm
**Fullname:**
Switching module associated with far end nailed-up port (port2_member).
**Attribute Description:**
Identifies the switching module on which port2_member resides.

**Attribute:**
nuloss
**Fullname:**
Loss in dB for nailed-up port1.
**Attribute Description:**
Attenuation value associated with port1's outgoing side from TSI (from network side to peripheral side). Since each nail-up is custom designed by the customer service engineer, there is no 'normal' value.

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Loss is an optional value.

**Attribute:**
sigmode
**Fullname:**
Signaling modes.
**Attribute Description:**
Tells the switch if any signaling (robbed-bit) is to be passed through the switch or not. If yes then the value of this attribute specifies how much signaling to pass through the connection.

**Attribute:**
control
**Fullname:**
Controlling port.
**Attribute Description:**
Whichever port has a control is set to DBYES. Note that control is exclusive: one tuple must have control set to DBYES while its mate tuple has it set to DBNO.

**Attribute:**
tc_initsig
**Fullname:**
Type of signaling bit pattern for the first 2.5 seconds of the carrier failure.
**Attribute Description:**
This attribute contains the conditioning bit pattern required by the other end of the nailup. The conditioning bit patterns associated with RLnailup.port1 are stored in the RLnailup tuple keyed by portname stored in port2_member.

The initial conditioning is applied to nailup circuits during the initial 2.5 seconds of carrier failure. If the sigmode attribute is set to SMINHSIG, then this circuit conditioning does not occur.

For any port2_member which is a Trunk Unit Port (or TEN), this attribute must be set to SIG00.

**Attribute:**
tc_finisig
**Fullname:**
Signaling bits applied after 2.5 seconds of the carrier failure until the failure conditions ceases.
**Attribute Description:**
This attribute contains the conditioning bit pattern required by the other end of the nailup. The conditioning bit patterns associated with RLnailup.port1 are stored in the RLnailup tuple keyed by portname stored in port2_member.

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The final conditioning is applied to nailup circuits after the first 2.5 seconds of carrier failure has elapsed until the carrier failure quits. If the sigmode attribute is set to SMINHSIG, then this circuit conditioning does not occur. For any port2_member which is a Trunk Unit Port (or TEN), this attribute must be set to SIG11.

**Attribute:**
trwrd
**Fullname:**
Trouble word.
**Attribute Description:**
This attribute contains the trouble word pattern required by the other end of the nailup. The trouble word pattern associated with RLnailup.port1 is stored in the RLnailup tuple keyed by portname stored in port2_member.

When a circuit involved in a nail-up connection fails, this attribute specifies the trouble word to be sent during carrier failure. The trouble word is sent over a T1 channel, along with the signaling defined in attributes tc_initsig and tc_finisig. If the port2_member of this nail-up tuple contains a Trunk Unit Port ( or TEN), this field must contain TMUAC.

**Attribute:**
dds1
**Fullname:**
Digital Data Service, first path
**Attribute Description:**
This attribute specifies that the nailed-up or hair-pinned connection is a Digital Data Service type connection. If the port is a DDS port, then the signaling mode must be set to SMINHSIG.

If the DDS port is on a TR303 RT, then the lp_type must be PC303NAIL.

**Attribute:**
dds2
**Fullname:**
Digital Data Service, second path
**Attribute Description:**
This attribute specifies that this hairpin connection is Digital Data Service and consists of two paths.

Note that Dual Path Digital Data Service is only allowed for hairpin.

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**Attribute:**
zcs_on
**Fullname:**
Zero Code Suppression allowed on nailuped or hairpinned connection.
**Attribute Description:**
The zcs-on attribute is used for indicating the zero code suppression is to be enabled or disabled on the timeslots indicated by the path1_ds0 and path2_ds0 (if valid) attributes. This is only valid for signaling types of SMINHSIG. On a DS1 that does not use the ZCS format, this attribute is ignored. DBYES means Zero Code Suppression is allowed on the paths associated with this nailup/hairpin.

DBNO means Zero Code Suppression is disabled on the paths associated with this nailup/hairpin.

NOTE: ZCS can only be disabled on IDCU hardware. It is not allowed to be set to DBNO on other hardware types.

**Attribute:**
hairpin
**Fullname:**
Hairpinned instead of nailed up path(s)
**Attribute Description:**
If the data path(s) is to be looped around in the Time Slot Interchanger of the IDCU (instead of the SM TSI for nailups), the hairpin attribute is set to DBYES. For connection which go through the SM TSI, this attribute is set to DBNO.

**Attribute:**
path1_ds0
**Fullname:**
IDCU or TR303-DNU Facility and DS0 carrying path 1 of nailup/IDCU hairpin
**Attribute Description:**
This attribute gives the internal circuit name of the IDCU or TR303-DNU facility and the DS0 on that facility which is carrying path1 of this nailup or IDCU hairpin (for this end).

**Attribute:**
path1_ds0.ds1name
**Fullname:**
IDCU or TR303-DNU Facility Internal Circuit name
**Attribute Description:**
IDCU or TR303-DNU Facility which connects IDCU or TR303-DNU to RT containing port1_member and port3_member (assuming it is non-zero).

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**Attribute:**
path1_ds0.ds1_ts
**Fullname:**
DS0 Number on IDCU or TR303-DNU Facility
**Attribute Description:**
This is the DS0 number on the IDCU or TR303-DNU facility which is carrying the nailup or IDCU hairpin connection between the IDCU or TR303-DNU and the RT on which port1_member resides.

**Attribute:**
path2_ds0
**Fullname:**
IDCU or TR303-DNU Facility and DS0 carrying path 1 of nailup/IDCU hairpin
**Attribute Description:**
This attribute gives the internal circuit name of the IDCU or TR303-DNU facility and the DS0 on that facility which is carrying path2 of this nailup or IDCU hairpin (for this end).

**Attribute:**
path2_ds0.ds1name
**Fullname:**
IDCU or TR303-DNU Facility Internal Circuit name
**Attribute Description:**
IDCU or TR303-DNU Facility which connects IDCU or TR303-DNU to RT containing port1_member and port3_member (assuming it is non-zero).

**Attribute:**
path2_ds0.ds1_ts
**Fullname:**
DS0 Number on IDCU or TR303-DNU Facility
**Attribute Description:**
This is the DS0 number on the IDCU or TR303-DNU facility which is carrying the nailup or IDCU hairpin connection between the IDCU or TR303-DNU and the RT on which port1_member or port3_member resides (assuming it is non-zero).

**Attribute:**
port3_member
**Fullname:**
Second port on this end for Dual Path Digital Data Service
**Attribute Description:**
This is the second port on this end of a Dual Path Digital Data Service (DDS) connection.
The port index for this port equals the port 1 index plus 1 and is only valid for Dual Path DDS terminating on TR8 RTs or on PUB43801 facilities.

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**Attribute:**
dscnum
**Fullname:**
Dedicated Switch Connection number.
**Attribute Description:**
The value of this attribute will be 0 for regular nailup or will have the DSC (Dedicated Switch Connection) number when the nailup is used as a dedicated switch connection associated with Autoplex(R).

**Defines:**
"db/DMport.h"

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# NALKP_LS

## 1. Description

This relation consists of information on a particular CCS7 link. The key to this relation is the DLT number which is the ST port name.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 80 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
NALKP_LS    relid = 2537  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     dltnum      DMPORT       (ushort)     <--- key
     lsnum       DMUNS7       (ushort: 7)
     slc         DMUNS4       (ushort: 4)
 (a) member      DMUNS3       (ushort: 3)
 (b) priority    DMSS7PRIOR   (ushort: 2)
     norm_sls    DMHEX32      (ulong)
     cls_sls     DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   NALKP_LS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |             |       |     |   |
  0 |             dltnum            |    lsnum    |  slc  |  a  | b |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           norm_sls                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                           cls_sls                             |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLnalkp_ls

**Relation Description**
North American CCS7 (NACCS7) Link Information

This relation consists of information on a particular NACCS7 signaling link.

**Attribute: dltnum**

**Fullname:** Data Link Terminal (DLT) number

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**Attribute Description** The DLT number is the Signaling Terminating port name assigned to this link.

**Attribute: lsnum**

**Fullname:** Link set number.

**Attribute Description** The number of the link set that the link belongs to. This is defined by switch administration.

**Attribute: member**

**Fullname:** Link set member number

**Attribute Description** The member number assigned to this link. This is defined by switch administration.

**Attribute: slc**

**Fullname:** Signaling link code

**Attribute Description** The Signaling Link Code (SLC) assigned to this link. The SLC uniquely identifies a signaling link between two offices. The two end offices must assign the same SLC to any one signaling link. This is defined by switch administration.

**Attribute: norm_sls**

**Fullname:** Normal signaling link selection values

**Attribute Description** A mask of 32 bits that indicates the Signaling Link Selection codes assigned to this link for load sharing under normal conditions. This is defined by the data population process.

For each SLS code which is normally assigned to this link, the corresponding bit in norm_sls is set to 1. Therefore, if the link is assigned SLS codes of 0, 13, and 26, the 0, 13, and 26 bits are set to 1.

The value for norm_sls is obtained from the RLnalsh_sz relation using the following link's load sharing number and the following loadsharing size of the link set as keys.

The load sharing number of a link can be derived as follows: All priority 1 links in the link set are ordered from the smallest to the largest member, and each ordered link is assigned a consecutive number from 1 to X. This number equals the load sharing number of the link.

The load sharing size of a link set is equal to the number of priority 1 links in the link set. This number is stored in the RLnalsgrp relation in attribute llnks. Whenever a priority 1 link is added or deleted from a link set, the norm_sls attribute for all other links in the link set must be updated.

**Attribute: cls_sls**

**Fullname:** Combined link set signaling link selection values

**Attribute Description** A mask of 32 bits indicating the Signaling Link Selection codes assigned to this link, as part of a combined link set, for load sharing under normal conditions. If the link is a priority 2 or 3, or is not part of a combined link set (nalsgrp.clsindx = 0), populate with the default value. This is defined by the data population process.

For each SLS code which is normally assigned to this link (as part of a combined link set), the

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corresponding bit in cls_sls is set to 1. Therefore if the link is assigned SLS codes of 0, 12, and 24, the 0, 12, and 24 bits are set to 1.

The procedure to assign SLS values is as follows:

First determine which is link set1 and link set2 which make up this combined link set (see the RLnalsgrp static relation). The link set with the larger link set number is referred as LS1 and the other as LS2. Next determine all priority 1 links for each link set. Order these links from the smallest to the largest link member number within each link set. Then each ordered link is assigned a consecutive number from 1 to X. This number equals the loadsharing number of this link.

Assign even SLS values to the links in LS1 and odd SLS values to the links in LS2 sequentially in the order of their load sharing number.

Whenever a priority 1 link is added or deleted from a link set of a combined link set, the cls_sls attribute for all links in the link set must be updated.

**Attribute: priority**

**Fullname:** Priority

**Attribute Description** The signaling link's assigned priority.

| value | meaning |
|---|---|
| 1 | link should be active and loaded |
| 2 | link should be active but not loaded |
| 3 | link is standby and not active or loaded |

This is defined by switch administration.

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# NALSDPC

## 1. Description

CCS7 link set to affected DPC translation relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 80 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| padding indicator | unpadded |
| permutation type | un_perm |

## 3. Field Layout

```
NALSDPC     relid = 2547  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     ls          DMUNS7       (ushort: 7)     <--- key
     dpci_srv    DMHEX32      (ulong)
     dpci1_srv   DMHEX32      (ulong)
     dpci2_srv   DMHEX32      (ulong)
     dpci3_srv   DMHEX32      (ulong)
     dpci4_srv   DMHEX32      (ulong)
     dpci5_srv   DMHEX32      (ulong)
     dpci6_srv   DMHEX32      (ulong)
     dpci7_srv   DMHEX32      (ulong)
     dpci_cls    DMHEX32      (ulong)
     dpci1_cls   DMHEX32      (ulong)
     dpci2_cls   DMHEX32      (ulong)
     dpci3_cls   DMHEX32      (ulong)
     dpci4_cls   DMHEX32      (ulong)
     dpci5_cls   DMHEX32      (ulong)
     dpci6_cls   DMHEX32      (ulong)
     dpci7_cls   DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout    NALSDPC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |      ls       |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             dpci_srv                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                            dpci1_srv                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                            dpci2_srv                          |
```

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```
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                           dpci3_srv                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                           dpci4_srv                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 24 |                           dpci5_srv                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 28 |                           dpci6_srv                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 32 |                           dpci7_srv                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 36 |                            dpci_cls                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 40 |                           dpci1_cls                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 44 |                           dpci2_cls                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 48 |                           dpci3_cls                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 52 |                           dpci4_cls                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 56 |                           dpci5_cls                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 60 |                           dpci6_cls                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 64 |                           dpci7_cls                           |
    |---------------+---------------+---------------+---------------|
      ( 68 bytes )
domain alNALSDPC  struct  (3 sub-attributes)
        ls          .1.fake      (ushort: 7)
        dpci_srv    .2.fake      (array [ 8 ] of unsigned long )
        dpci_cls    .3.fake      (array [ 8 ] of unsigned long )
        Structure Layout     alNALSDPC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |      ls       |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            dpci_srv                           |
```

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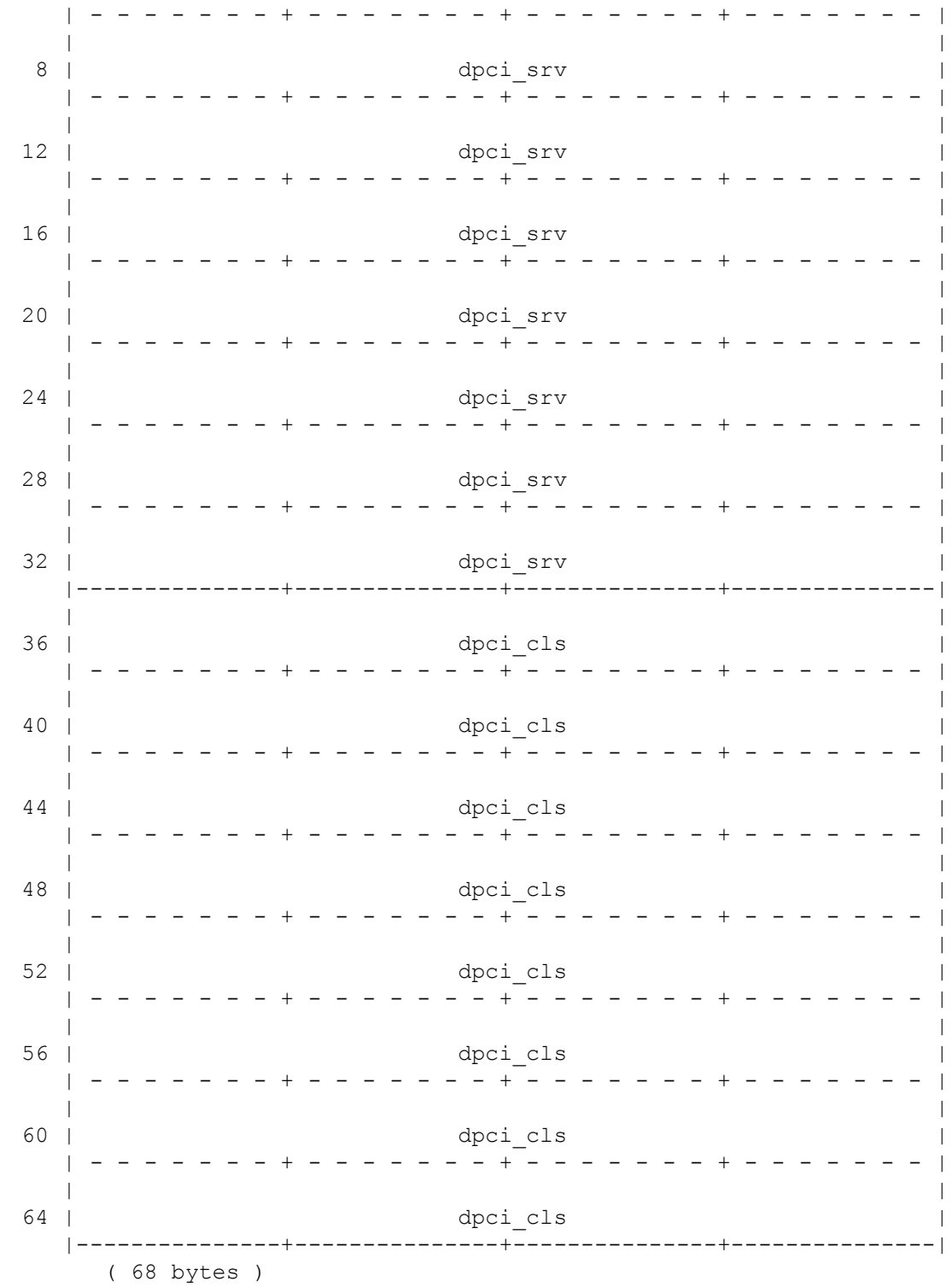


## 4. Population Rules for RLnalsdpc

**Relation Description**
North American CCS7 (NACCS7) link set to affected Destination Point Code (DPC) index

Based on a given link set, the DPC indexes served by the link set and the DPC indexes served by the link set as

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part of a combined link set can be obtained. The DPC to DPC index mapping is performed by the RLnapcndx relation.

**Attribute: ls**

**Fullname:** Link Set number

**Attribute Description** This attribute defines the link set that serves the DPC. It is defined by switch administration.

**Attribute: dpci_srv**

**Fullname:** The destination Point Code indexes (0-31) served by this link set

**Attribute Description** This bit field defines the DPCs (0-31) served by the link set. The link set may serve the DPC as a normal link set or an alternate link set. Each bit of this attribute represents a DPC index. The DPC to DPC index mapping is performed by the RLnapcndx relation.

If the link set is not serving any DPCs, populate with the default value. When set to the default value of 1 (bit 0 set), this attribute represents DPC index 0 which is invalid. This condition is used only to indicate that the link set has not yet been assigned to any DPC index.

This is defined by the data population process.

The format of the bit field follows (bit 0 is the low order bit):

```
|-31-30-29-28- ..... -4--3--2--1--0-| bits
|-----------------------------------|
| D  D  D  D          D  D  D  D  D |
| P  P  P  P  ....... P  P  P  P  P |
| C  C  C  C          C  C  C  C  C | dpci_srv
| I  I  I  I  ....... I  I  I  I  I |
| 31 30 29 28 ....... 4  3  2  1  0 |
|-----------------------------------|
```

**Attribute: dpci1_srv**

**Fullname:** The Destination Point Code Indexes (32-63) served by this Link Set

**Attribute Description** This bit field defines the DPCs (32-63) served by this link set. The link set may serve the DPC (32-63) as a normal link set or an alternate link set. Each bit of this attribute represents a DPC index. The DPC to DPC index mapping is performed by the RLnapcndx relation.

The format of the bit field follows (bit 0 is the low order bit):

```
|-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
|----------------------------------------|
| D   D   D   D .......D   D   D   D   D |
| P   P   P   P .......P   P   P   P   P | dpci1_srv
| C   C   C   C .......C   C   C   C   C |
| I   I   I   I  ......I   I   I   I   I |
|63  62  61  60.......36  35   34  33  32|
|----------------------------------------|
```

**Attribute: dpci2_srv**

**Fullname:** The Destination point Code Indexes (64-95) served by this Link Set

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**Attribute Description** This bit field defines the DPCs (64-95)) served by this link set. The link set may serve the DPC (64-95) as a normal link set or an alternate link set. Each bit of this attribute represents a DPC index. The DPC to DPC index mapping is performed by the RLnapcndx relation.

The format of the bit field follows (bit 0 is the low order bit):

```
|-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
|----------------------------------------|
| D   D   D   D .......D   D   D   D   D |
| P   P   P   P .......P   P   P   P   P | dpci2_srv
| C   C   C   C .......C   C   C   C   C |
| I   I   I   I  ......I   I   I   I   I |
| 95  94 93  92 ......60   61  62  63  64|
|----------------------------------------|
```

**Attribute: dpci3_srv**

**Fullname:** The Destination point Code Indexes (96-127) served by this Link Set

**Attribute Description** This bit field defines the DPCs (96-127)) served by this link set. The link set may serve the DPC (96-127) as a normal link set or an alternate link set. Each bit of this attribute represents a DPC index. The DPC to DPC index mapping is performed by the RLnapcndx relation.

The format of the bit field follows (bit 0 is the low order bit):

```
|-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
|----------------------------------------|
| D   D   D   D .......D   D   D   D   D |
| P   P   P   P .......P   P   P   P   P | dpci3_srv
| C   C   C   C .......C   C   C   C   C |
| I   I   I   I  ......I   I   I   I   I |
|127 126 125 124......100 99  98  97   96|
|----------------------------------------|
```

**Attribute: dpci4_srv**

**Fullname:** The Destination Point Code Indexes (128-159) served by this Link Set

**Attribute Description** This bit field defines the DPCs (128-159)) served by this link set. The link set may serve the DPC (128-159) as a normal link set or an alternate link set. Each bit of this attribute represents a DPC index. The DPC to DPC index mapping is performed by the RLnapcndx relation.

The format of the bit field follows (bit 0 is the low order bit):

```
|-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
|----------------------------------------|
| D   D   D   D .......D   D   D   D   D |
| P   P   P   P .......P   P   P   P   P | dpci4_srv
| C   C   C   C .......C   C   C   C   C |
| I   I   I   I  ......I   I   I   I   I |
|159 158 157 156......132 131 130 129 128|
|----------------------------------------|
```

**Attribute: dpci5_srv**

**Fullname:** The Destination Point Code Indexes (160-191) served by this Link Set

**Attribute Description** This bit field defines the DPCs (160-191)) served by this link set. The link set

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may serve the DPC (160-191) as a normal link set or an alternate link set. Each bit of this attribute represents a DPC index. The DPC to DPC index mapping is performed by the RLnapcndx relation.

The format of the bit field follows (bit 0 is the low order bit):

```
|-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
|----------------------------------------|
| D   D   D   D .......D   D   D   D   D |
| P   P   P   P .......P   P   P   P   P | dpci5_srv
| C   C   C   C .......C   C   C   C   C |
| I   I   I   I  ......I   I   I   I   I |
|191 190 189 188......164 163 162 161 160|
|----------------------------------------|
```

**Attribute: dpci6_srv**

**Fullname:** The Destination Point Code Indexes (192-223) served by this Link Set

**Attribute Description** This bit field defines the DPCs (192-223)) served by this link set. The link set may serve the DPC (192-223) as a normal link set or an alternate link set. Each bit of this attribute represents a DPC index. The DPC to DPC index mapping is performed by the RLnapcndx relation.

The format of the bit field follows (bit 0 is the low order bit):

```
|-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
|----------------------------------------|
| D   D   D   D .......D   D   D   D   D |
| P   P   P   P .......P   P   P   P   P | dpci6_srv
| C   C   C   C .......C   C   C   C   C |
| I   I   I   I  ......I   I   I   I   I |
|223 222 221 220......196 195 194 193 192|
|----------------------------------------|
```

**Attribute: dpci7_srv**

**Fullname:** The Destination Point Code Indexes (224-255) served by this Link Set

**Attribute Description** This bit field defines the DPCs (224-255)) served by this link set. The link set may serve the DPC (224-255) as a normal link set or an alternate link set. Each bit of this attribute represents a DPC index. The DPC to DPC index mapping is performed by the RLnapcndx relation.

The format of the bit field follows (bit 0 is the low order bit):

```
|-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
|----------------------------------------|
| D   D   D   D .......D   D   D   D   D |
| P   P   P   P .......P   P   P   P   P | dpci7_srv
| C   C   C   C .......C   C   C   C   C |
| I   I   I   I  ......I   I   I   I   I |
|255 254 253 252......228 227 226 225 224|
|----------------------------------------|
```

**Attribute: dpci_cls**

**Fullname:** Destination Point Code index (0-31) served by this link set as part of a combined link set

**Attribute Description** This bit field defines the DPCs (0-31) served by the link set as part of a

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combined link set. The combined link set may only serve the DPC as a normal route. Each bit of this attribute represents a DPC index. The DPC to DPC index mapping is performed by the RLnapcndx relation.

If the combined link set is not serving any DPCs, populate with the default value. When set to the default value of 1 (bit 0 set), this attribute represents DPC index 0 which is invalid. This condition is only used to indicate that the link set has not yet been assigned to any DPC index.

This is defined by the data population process.

The format of the bit field follows (bit 0 is the low order bit):

```
|-31-30-29-28- ..... -4--3--2--1--0-| bits
|-----------------------------------|
| D  D  D  D          D  D  D  D  D |
| P  P  P  P  ....... P  P  P  P  P |
| C  C  C  C          C  C  C  C  C | dpci_cls
| I  I  I  I  ....... I  I  I  I  I |
| 31 30 29 28 ....... 4  3  2  1  0 |
|-----------------------------------|
```

**Attribute: dpci1_cls**

**Fullname:** Destination Point Code Index (32-63) served by this Link Set as part of a Combined Link Set

**Attribute Description** This bit field defines the DPCs (32-63)) served by this link set as part of a combined link set. The combined link set may only serve the DPC (32-63) as a normal route. Each bit of this attribute represents a DPC index (32-63). The DPC to DPC index mapping is performed by the RLnapcndx relation.

The format of the bit field follows (bit 0 is the low order bit):

```
|-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
|----------------------------------------|
| D   D   D   D .......D   D   D   D   D |
| P   P   P   P .......P   P   P   P   P | dpci1_cls
| C   C   C   C .......C   C   C   C   C |
| I   I   I   I  ......I   I   I   I   I |
| 63  62  61 60 ......36  35  34  33   32|
|----------------------------------------|
```

**Attribute: dpci2_cls**

**Fullname:** Destination Point Code Index (64-95) served by this Link Set as part of a Combined Link Set

**Attribute Description** This bit field defines the DPCs (64-95)) served by this link set as part of a combined link set. The combined link set may only serve the DPC (64-95) as a normal route. Each bit of this attribute represents a DPC index (64-95). The DPC to DPC index mapping is performed by the RLnapcndx relation.

The format of the bit field follows (bit 0 is the low order bit):

```
|-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
|----------------------------------------|
| D   D   D   D .......D   D   D   D   D |
| P   P   P   P .......P   P   P   P   P | dpci2_cls
```

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```
| C   C   C   C .......C   C   C   C   C |
| I   I   I   I  ......I   I   I   I   I |
|95  94  93  92 ......68  67  66  65   64|
|----------------------------------------|
```

**Attribute: dpci3_cls**

**Fullname:** Destination point Code Index (96-127) served by this Link Set as part of a Combined Link Set

**Attribute Description** This bit field defines the DPCs (96-127)) served by this link set as part of a combined link set. The combined link set may only serve the DPC (96-127) as a normal route. Each bit of this attribute represents a DPC index (96-127). The DPC to DPC index mapping is performed by the RLnapcndx relation.

The format of the bit field follows (bit 0 is the low order bit):

```
|-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
|----------------------------------------|
| D   D   D   D .......D   D   D   D   D |
| P   P   P   P .......P   P   P   P   P | dpci3_cls
| C   C   C   C .......C   C   C   C   C |
| I   I   I   I  ......I   I   I   I   I |
|127 126 125 124......100 99  98  97  96 |
|----------------------------------------|
```

**Attribute: dpci4_cls**

**Fullname:** Destination Point Code Index (128-159) served by this Link Set as part of a Combined Link Set

**Attribute Description** This bit field defines the DPCs (128-159)) served by this link set as part of a combined link set. The combined link set may only serve the DPC (128-159) as a normal route. Each bit of this attribute represents a DPC index (128-159). The DPC to DPC index mapping is performed by the RLnapcndx relation.

The format of the bit field follows (bit 0 is the low order bit):

```
|-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
|----------------------------------------|
| D   D   D   D .......D   D   D   D   D |
| P   P   P   P .......P   P   P   P   P | dpci4_cls
| C   C   C   C .......C   C   C   C   C |
| I   I   I   I  ......I   I   I   I   I |
|159 158 157 156......132 131 130 129 128|
|----------------------------------------|
```

**Attribute: dpci5_cls**

**Fullname:** Destination point Code Index (160-191) srved by this Link Set as part of a Combined Link Set

**Attribute Description** This bit field defines the DPCs (160-191)) served by this link set as part of a combined link set. The combined link set may only serve the DPC (160-191) as a normal route. Each bit of this attribute represents a DPC index (160-191). The DPC to DPC index mapping is performed by the RLnapcndx relation.

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The format of the bit field follows (bit 0 is the low order bit):

```
|-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
|----------------------------------------|
| D   D   D   D .......D   D   D   D   D |
| P   P   P   P .......P   P   P   P   P | dpci5_cls
| C   C   C   C .......C   C   C   C   C |
| I   I   I   I  ......I   I   I   I   I |
|191 190 189 188......164 163 162 161 160|
|----------------------------------------|
```

**Attribute: dpci6_cls**

**Fullname:** Destination Point Code Index (192-223) served by this Link Set as part of a Combined Link Set

**Attribute Description** This bit field defines the DPCs (192-223)) served by this link set as part of a combined link set. The combined link set may only serve the DPC (192-223) as a normal route. Each bit of this attribute represents a DPC index (192-223). The DPC to DPC index mapping is performed by the RLnapcndx relation.

The format of the bit field follows (bit 0 is the low order bit):

```
|-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
|----------------------------------------|
| D   D   D   D .......D   D   D   D   D |
| P   P   P   P .......P   P   P   P   P | dpci6_cls
| C   C   C   C .......C   C   C   C   C |
| I   I   I   I  ......I   I   I   I   I |
|223 222 221 220......196 195 194 193 192|
|----------------------------------------|
```

**Attribute: dpci7_cls**

**Fullname:** Destination Point Code Index (224-255) served by this Link Set as part of a Combined Link Set

**Attribute Description** This bit field defines the DPCs (224-255)) served by this link set as part of a combined link set. The combined link set may only serve the DPC (224-255) as a normal route. Each bit of this attribute represents a DPC index (224-255). The DPC to DPC index mapping is performed by the RLnapcndx relation.

The format of the bit field follows (bit 0 is the low order bit):

```
|-31 -30- 29- 28-.... -4 - 3 - 2 - 1 - 0-| bits
|----------------------------------------|
| D   D   D   D .......D   D   D   D   D |
| P   P   P   P .......P   P   P   P   P | dpci7_cls
| C   C   C   C .......C   C   C   C   C |
| I   I   I   I  ......I   I   I   I   I |
|255 254 253 252......228 227 226 225 224|
|----------------------------------------|
```

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# NALSGRP

## 1. Description

This relation consists of information on a particular CCS7 link set; the number of links in this link set, number of active links in this link set, number of loaded links in the link set.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 80 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
NALSGRP     relid = 2548  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     lsnum       DMUNS7       (ushort: 7) <--- key
     apci        DMUNS7       (ushort: 7)
 (a) inh_protocol  DMBOOL       (enum: 1)
     lsnum2      DMUNS7       (ushort: 7)
     clsindx     DMUNS5       (ushort: 5)
     nlnks       DMUNS4       (ushort: 4)
     alnks       DMUNS4       (ushort: 4)
     llnks       DMUNS4       (ushort: 4)
         User, Compacted and Stored Tuple Layout    NALSGRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+ | |---------------+---------------|
    |               |               | | |               |               |
  0 |     lsnum     |      apci     |a|*|     lsnum2    |    clsindx    |
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  4 |     alnks     |     llnks     |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLnalsgrp

### Relation Description

North American CCS7 (CCSNA7) link set information
This relation consists of information on a particular CCSNA7 link set: the number of links in each link set, the number of active links in each link set, the number of loaded links in each link set,inhibit protocol and information as to whether the link set is part of a combined link set.

**Attribute:**

lsnum

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**Fullname:**
Link set number
**Attribute Description:**
The link set number is defined by switch administration.

**Attribute:**
apci
**Fullname:**
Adjacent Point Code index
**Attribute Description:**
The index associated with the APC to which this link set has a direct connection.

**Attribute:**
lsnum2
**Fullname:**
Link set number of the second link set in a combined link set
**Attribute Description:**
If this link set (the key value) is part of a combined link set, lsnum2 is the value of the other link set number. If this link set is not part of a combined link set, populate with the default value. This attribute is defined by switch administration.

**Attribute:**
nlnks
**Fullname:**
Number of physical links
**Attribute Description:**
This attribute is defined by the data population process based upon the number of physical signaling links defined by switch administration.

**Attribute:**
alnks
**Fullname:**
Number of active links
**Attribute Description:**
The number of normally active members (links) in this link set. This is the number of priority 1 and priority 2 links in the link set. This attribute is defined by data population process based upon the number of active signaling links defined by switch administration.

**Attribute:**
llnks
**Fullname:**
Number of load sharing links
**Attribute Description:**

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The number of load sharing members (links) in this link set. This is the number of priority 1 links in the link set. This attribute is defined by the data population process based upon the number of priority 1 signaling links defined by switch administration.

**Attribute:**
clsindx
**Fullname:**
The combined link set index.
**Attribute Description:**
If this link set (the key value) is part of a combined link set, populate with the combined link set index. If this link set is not part of a combined link set, populate with the default value. It is defined by the data population process.

**Attribute:**
inh_protocol
**Fullname:**
Management Inhibition Protocol Specifier
**Attribute Description:**
This specifies Management Inhibition Protocol usage.

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# NALSH_SZ

## 1. Description

CCS7 office loadsharing definition relation; applicable for link sets and combined link sets.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 17 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
NALSH_SZ    relid = 2549  DBSTATIC   DBACC_CIND  DBPRAM    LR      NULL
     num_ldsh    DMUNS5       (ushort: 5)     <--- key
     slslk0      DMUNS5       (ushort: 5)
     slslk1      DMUNS5       (ushort: 5)
     slslk2      DMUNS5       (ushort: 5)
     slslk3      DMUNS5       (ushort: 5)
     slslk4      DMUNS5       (ushort: 5)
     slslk5      DMUNS5       (ushort: 5)
     slslk6      DMUNS5       (ushort: 5)
     slslk7      DMUNS5       (ushort: 5)
     slslk8      DMUNS5       (ushort: 5)
     slslk9      DMUNS5       (ushort: 5)
     slslk10     DMUNS5       (ushort: 5)
     slslk11     DMUNS5       (ushort: 5)
     slslk12     DMUNS5       (ushort: 5)
     slslk13     DMUNS5       (ushort: 5)
     slslk14     DMUNS5       (ushort: 5)
     slslk15     DMUNS5       (ushort: 5)
     slslk16     DMUNS5       (ushort: 5)
     slslk17     DMUNS5       (ushort: 5)
     slslk18     DMUNS5       (ushort: 5)
     slslk19     DMUNS5       (ushort: 5)
     slslk20     DMUNS5       (ushort: 5)
     slslk21     DMUNS5       (ushort: 5)
     slslk22     DMUNS5       (ushort: 5)
     slslk23     DMUNS5       (ushort: 5)
     slslk24     DMUNS5       (ushort: 5)
     slslk25     DMUNS5       (ushort: 5)
     slslk26     DMUNS5       (ushort: 5)
     slslk27     DMUNS5       (ushort: 5)
     slslk28     DMUNS5       (ushort: 5)
     slslk29     DMUNS5       (ushort: 5)
     slslk30     DMUNS5       (ushort: 5)
     slslk31     DMUNS5       (ushort: 5)
```

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```
        User, Compacted and Stored Tuple Layout   NALSH_SZ
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |               | |               |               |               | |
  0 |  num_ldsh     |   slslk0      |   slslk1      |*|   slslk2      |   slslk3      |   slslk4      |*|
    |---------------+---------------+---------------+---------------|
    |               |               |               | |               |               |               | |
  4 |   slslk5      |   slslk6      |   slslk7      |*|   slslk8      |   slslk9      |  slslk10      |*|
    |---------------+---------------+---------------+---------------|
    |               |               |               | |               |               |               | |
  8 |  slslk11      |  slslk12      |  slslk13      |*|  slslk14      |  slslk15      |  slslk16      |*|
    |---------------+---------------+---------------+---------------|
    |               |               |               | |               |               |               | |
 12 |  slslk17      |  slslk18      |  slslk19      |*|  slslk20      |  slslk21      |  slslk22      |*|
    |---------------+---------------+---------------+---------------|
    |               |               |               | |               |               |               | |
 16 |  slslk23      |  slslk24      |  slslk25      |*|  slslk26      |  slslk27      |  slslk28      |*|
    |---------------+---------------+---------------+---------------|
    |               |               |               |                                               |
 20 |  slslk29      |  slslk30      |  slslk31      |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population Rules for RLnalsh_sz

**Relation Description**
North American CCS7 (NACCS7) office loadsharing definition.

This relation defines the NACCS7 office load sharing applicable for link sets.

**Attribute: num_ldsh**

**Fullname:** Number of load sharing links within a link set or combined link set

**Attribute Description** The number of load sharing links in a link set is determined by the number of priority 1 links which have been assigned to the link set.

**Attribute: slslk0**

**Fullname:** Signaling Link Selection Link number

**Attribute Description** These attributes are selected by the Signaling Link Selection (SLS) (0-31) value. The contents of each array element is the logical load sharing link number (1-16). A logical load sharing link is a link in a link set or combined link set which has been assigned a priority of 1. Thus the first member of a link set with priority 1 is the logical load sharing link 1. The second member of a link set with priority 1 is logical load sharing link 2. And so on .....

The following diagrams show how to populate each attribute of a tuple. The value of a particular attribute is determined by using the tuples key (num_ldsh) and the attribute (slslk00 through slslk31) to read into the following diagram. It is defined by the data population process.

```
num_ldsh    ----------slslk00 through slslk15-----------
            0  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15
            ------------------------------------------------
  1         1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
```

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| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 |
| 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 |
| 6 | 1 | 2 | 3 | 4 | 5 | 6 | 1 | 2 | 3 | 4 | 5 | 6 | 1 | 2 | 3 | 4 |
| 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 |
| 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 5 | 6 |
| 11 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 1 | 2 | 3 | 4 | 5 |
| 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 |
| 13 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 1 | 2 | 3 |
| 14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 |
| 15 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 1 |
| 16 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

| num_ldsh | slslk16 through slslk31 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| 3 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 |
| 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| 5 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 |
| 6 | 5 | 6 | 1 | 2 | 3 | 4 | 5 | 6 | 1 | 2 | 3 | 4 | 5 | 6 | 1 | 2 |
| 7 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 |
| 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 8 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 5 |
| 10 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 |
| 11 | 6 | 7 | 8 | 9 | 10 | 11 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 12 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 13 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 1 | 2 | 3 | 4 | 5 | 6 |
| 14 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 | 3 | 4 |
| 15 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 1 | 2 |
| 16 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

**Attribute: slslk[*]**

**Fullname:** Signaling Link Selection Link number

**Attribute Description** See attribute slslk0 for usage and population tables.

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# NALSLNK

## 1. Description

This relation consists of information on a particular CCS7 link.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 80 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
NALSLNK     relid = 2540  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     st_dlt      DMPORT       (ushort)
     sdl_port    DMPORT       (ushort)
     sdl_sm      DMUNS8       (ushort: 8)
     lsnum       DMUNS7       (ushort: 7)     <--- key
     cktnum      DMUNS5       (ushort: 5)
 (a) member      DMUNS3       (ushort: 3)     <--- key
 (b) unitnum     DMUNS3       (ushort: 3)
 (c) unittyp     DMUNTTYPE    (enum: 2)
         User, Compacted and Stored Tuple Layout    NALSLNK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              st_dlt           |             sdl_port          |
    |---------------+---------------+---------------+---------------|
    |               |             | |         |     |     |   |     |
  4 |     sdl_sm    |    lsnum    |*|  cktnum |  a  |  b  | c |*****|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLnalslnk

**Relation Description**
North American CCS7 (NACCS7) link information.

This relation consists of information on a each link in a link set. Each link is referenced by a link set number and a member number.

**Attribute: lsnum**

**Fullname:** The link set number.

**Attribute Description** The number of the link set that the link belongs to. This is defined by switch administration.

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**Attribute: member**

**Fullname:** Member number

**Attribute Description** The member number of the link in the link set. It is defined by switch administration.

**Attribute: st_dlt**

**Fullname:** Signaling terminal's data link terminating (DLT) number.

**Attribute Description** The DLT number assigned to the signaling terminal (ST) port of this link. This is defined by switch administration.

**Attribute: sdl_sm**

**Fullname:** The SM of the Signaling Data Link.

**Attribute Description** The SM where the Signaling Data Link is found. It is defined by switch administration.

**Attribute: sdl_port**

**Fullname:** Signaling Data Link local port number.

**Attribute Description** The Signaling Data Link port number for this signaling link. It is defined by switch administration.

**Attribute: unittyp**

**Fullname:** Hardware Unit type of the SDL port

**Attribute Description** This attribute defines the hardware unit type(analog or digital) of the SDL port.

**Attribute: unitnum**

**Fullname:** Hardware unit number.

**Attribute Description** This attribute defines the hardware unit number. If the unittyp is PCDIGITAL, then unum range is 0 thru 5 and if the unittyp is PCANALOG, then the unum range is 0 thru 7.

**Attribute: cktnum**

**Fullname:** DFI number or Service group number based on unit type.

**Attribute Description** This attribute defines the DFI number (1 thru 16) if the unittyp is PCDIGITAL, or the service group number (0 thru 1) if the unittyp is PCANALOG.

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# NAME2ID

## 1. Description

This relation provides maps from an external FAC name to an internal ID.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3072 |
| expected tuples in relation | 300 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| foldtype | DBGC31 |

## 3. Field Layout

```
NAME2ID     relid = 2747  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     name         DMFNAME      (array [ 16 ] of char )     <--- key
     id           DMFACID      (ushort)
     class        DMFACLASS    (enum: 5)     <--- key
 (a) subclass     DMFACSUBCL   (enum: 4)
     usecnt       DMFACUSCNT   (ulong)
         User, Compacted and Stored Tuple Layout    NAME2ID
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                              name                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                              name                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                              name                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                              name                             |
    |---------------+---------------+---------------+---------------|
    |                                |         |     |       |       |
 16 |               id               |  class  |*****|   a   |*******|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                             usecnt                            |
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population Rules for RLname2id

**Relation Description**
Construction name to ID translation

This relation translates an 16-character ASCII name (known to the switch personnel) to a 16-bit internal name. There is a separate name space for each class of names, which is the other key.

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There is a tuple in this relation for every tuple in RLid2name.

**Attribute: name**

**Fullname:** 16-character ASCII name

**Attribute Description** This is the externally known ASCII name. It can be from 1 to 16 characters long. If it is less than 16 characters long, the field is padded with binary zeros ('\0'). Names must be unique within a class. Names from different classes need not be uniq.

construction class

**Attribute: class**

**Fullname:** assignment and construction class

**Attribute Description** Externally known names are divided into a number of classes. This is an enumerated type identifying the class associated with the external name. This attribute allows each class to have its own unique name space.

**Attribute: subclass**

**Fullname:** assignment and construction subclass

**Attribute Description** Each class of names is divided into one or more subclasses. The subclasses of a given class all share the same name space, since subclass is not a key to RLname2id.

**Attribute: id**

**Fullname:** assignment and construction identification

**Attribute Description** This is the internal identifier associated with the external name. This is a short with a range from 0 to 65535. For most names, this is treated as a simple number.

**Attribute: usecnt**

**Fullname:** Usage count

**Attribute Description** This is a count of the number of references of the id in other base relations.

**Defines:** "db/DMmftype.h",
"db/DMdnum.h",
"db/DMfid.h"

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# NAMINTF

## 1. Description

This relation is the inverse relation of RLintfnam.G. It is used by RC/V to translate an index to an interface name.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 836 |
| expected tuples | 8 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | DBNO |

## 3. Field Layout

```
NAMINTF     relid = 3162  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP


     indx_name   DMUSHORT     (ushort)  <--- key, not stored
     intf_name   DMINT_NAME   (array [ 20 ] of char )
         User and Compacted Tuple Layout    NAMINTF
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            indx_name          |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           intf_name                           |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                           intf_name                           |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                           intf_name                           |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                           intf_name                           |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                           intf_name                           |
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )


     intf_name   DMINT_NAME   (array [ 20 ] of char )
           Stored Tuple Layout      NAMINTF
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                           intf_name                           |
```

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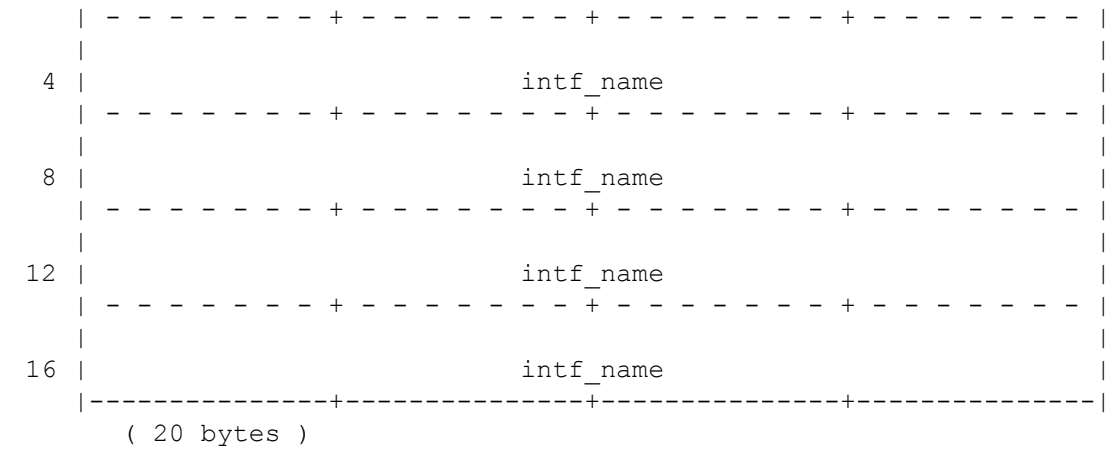


## 4. Population rules for RLnamintf

### Relation Description

Interface Protocol (IP) Interface Index Relation

This relation converts an IP interface name to an IP interface index.
It is the inverse relation of RLintfnam.

**Attribute:**
indx_name
**Fullname:**
Index for interface name
**Attribute Description:**
Unique index associated with the IP interface.

**Attribute:**
intf_name
**Fullname:**
IP interface name
**Attribute Description:**
This attribute is the character name given to the IP interface on the switch.

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# NAPC_INF

## 1. Description

This relation provides more detailed information about a CCS7 destination point code.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 256 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
NAPC_INF    relid = 2550  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     dpcindx     DMUNS8       (ushort: 8)     <--- key
     altls1      DMUCHAR      (uchar)
     altls2      DMUCHAR      (uchar)
     altls3      DMUCHAR      (uchar)
     altls4      DMUCHAR      (uchar)
     apcindx     DMUNS7       (ushort: 7)
         User, Compacted and Stored Tuple Layout   NAPC_INF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  0 |    dpcindx    |     altls1    |     altls2    |     altls3    |
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  4 |     altls4    |   apcindx     |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
domain alNAPC_INF struct  (3 sub-attributes)
         dpcindx     .2.fake      (ushort)
         altls       .3.fake      (array [ 4 ] of unsigned char )
         apcindx     .4.fake      (ushort: 7)

         Structure Layout      alNAPC_INF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |    dpcindx    |                     altls                     |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |               |               |                               |
  4 |     altls     |   apcindx     |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

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## 4. Population Rules for RLnapc_inf

**Relation Description**
North American CCS7 (NACCS7) Destination Point Code Information

This relation provides more detailed information about a NACCS7 Destination Point Code.

**Attribute: dpcindx**

**Fullname:** Destination Point Code index.

**Attribute Description** The DPC index is defined by the data population process.

**Attribute: altls1**

**Fullname:** First alternate link set

**Attribute Description** The link set number which is the first alternate link set used to carry signaling traffic to the DPC. It is defined by switch administration.
If no alternate link set is to be defined, populate with the default value. If the DPC is served by a Combined Link Set, altls1 must be filled with the default value.

**Attribute: altls2**

**Fullname:** Second alternate link set

**Attribute Description** The link set number which is the second alternate link set used to carry signaling traffic to the DPC. It is defined by switch administration.
If no alternate link set is to be defined, populate with the default value. If the DPC is served by a Combined Link Set, altls2 must be filled with the default value.

**Attribute: altls3**

**Fullname:** Third alternate link set

**Attribute Description** The link set number which is the third alternate link set used to carry signaling traffic to the DPC. It is defined by switch administration.
If no alternate link set is to be defined, populate with the default value. If the DPC is served by a Combined Link Set, altls3 must be filled with the default value.

**Attribute: altls4**

**Fullname:** Fourth alternate link set

**Attribute Description** The link set number which is the fourth alternate link set used to carry signaling traffic to the DPC. It is defined by switch administration.
If no alternate link set is to be defined, populate with the default value. If the DPC is served by a Combined Link Set, altls4 must be filled with the default value.

**Attribute: apcindx**

**Fullname:** Adjacent Point Code (APC) index

**Attribute Description** If the DPC corresponding to dpcindx has been determined, by Switch Administration, to be an Adjacent Point Code assign the next APC index. A DPC is considered

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adjacent if this office has signaling links which are directly connected to the DPC. If the DPC is not adjacent, populate with the default value. It is defined by the data population process.
Populate with the next available APC index value available from the RLindx relation. Read the RLindx relation with CCNAAPCIDX as the key. Increment the max_idx attribute by one and assign this value to apcindx. Then update the RLindx tuple.

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# NAPCIAPC

## 1. Description

CCS7 adjacent point code index to assigned adjacent signaling point translation relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 80 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| padding indicator | unpadded |

## 3. Field Layout

```
NAPCIAPC    relid = 2551  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     apc         DMPT_CODE    (ulong: 24)
     apcindx     DMUNS7       (ushort: 7)     <--- key
         User, Compacted and Stored Tuple Layout   NAPCIAPC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                 |             | |
  0 |                       apc                       |   apcindx   |*|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLnapciapc

**Relation Description**
North American CCS7 (NACCS7) adjacent point code (APC) index to Adjacent Point Code.

This relation translates a NACCS7 APC index to the assigned APC.

**Attribute: apcindx**

**Fullname:** Adjacent Point Code Index

**Attribute Description** The Adjacent Point Code (APC) index is defined by the data population process.

**Attribute: apc**

**Fullname:** Adjacent Point Code

**Attribute Description** The point code of the APC is defined by switch administration. See the population rules for RLnapcndx.dpc for more information.

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# NAPCNDX

## 1. Description

This relation provides basic information about a destination point code with an index to be used with the RLnapc_inf relation for further information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 256 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
NAPCNDX     relid = 2552  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     dpc          DMPT_CODE     (ulong: 24)     <--- key
     dpcindx      DMUNS8        (ushort: 8)
     lnk_set1     DMUNS7        (ushort: 7)
     lnk_set2     DMUNS7        (ushort: 7)
 (a) no_func      DMNO_FUNC     (enum: 2)
     clsindx      DMUNS5        (ushort: 5)
 (b) dpc_type     DMDPCTYPE     (enum: 2)
 (c) con_pc       DMBOOL        (enum: 1)
 (d) adjacent     DMBOOL        (enum: 1)
         User, Compacted and Stored Tuple Layout    NAPCNDX
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                      dpc                      |    dpcindx    |
    |---------------+---------------+---------------+---------------|
    |               |               |   |           |   | | |               |
  4 |   lnk_set1    |   lnk_set2    | a | clsindx   | b |c|d|**************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLnapcndx

**Relation Description**
North American CCS7 (NACCS7) destination point code (DPC) index.

This relation provides basic information for NACCS7 DPCs with an index to be used with the RLnapc_inf relation for further information.

**Attribute: dpc**

**Fullname:** Destination Point Code

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**Attribute Description** The Destination Point Code (DPC) identifies the signaling point for a far end office. It is defined by switch administration.

The DPC is externally defined as a string of 9 decimal digits. The internal format is a hex value based upon the following format (where bit 0 is the low order bit):

```
(Bits) 23          16 15           8 7            0
        +------------+-------------+------------+
        |  Network   |   Network   |   Cluster  |
        | Indicator  |   Cluster   |   Member   |
        +------------+-------------+------------+
(Digit) 9            7 6            4 3            1
```

The 9 digit externally defined DPC is converted as follows:

(network indicator 2^16) + (cluster type 2^8) + cluster member

Range: 0x0 - 0xFFFFFF (0 - 16777215) subject to the following:
Network Indicator: 0 - 255
Network Cluster: 0 - 255
Cluster Member: 0 - 255

**Attribute: no_func**

**Fullname:** Digital Derived Services Node function.

**Attribute Description** This attribute defines whether the DPC is an Action Point, Network Control Point, or Network Services Complex. If the DPC is none of the previous, populate with the default value. It is defined by switch administration.

**Attribute: dpc_type**

**Fullname:** Destination type

**Attribute Description** This attribute defines whether the DPC acts as a Signaling End Point, Signaling Transfer Point, or both. If the DPC acts as none of the previous, populate with the default value. It is defined by switch administration.

**Attribute: lnk_set1**

**Fullname:** Link set which normally serves this DPC.

**Attribute Description** The number of the link set that is normally used for reaching this DPC. It is defined by switch administration.

**Attribute: lnk_set2**

**Fullname:** Second link set of a combined link set.

**Attribute Description** If the DPC is served by a combined link set, populate with the smaller link set number. If the destination is not served by a combined link set, populate with the default value. It is defined by switch administration.

**Attribute: clsindx**

**Fullname:** Combined link set index

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**Attribute Description** If the DPC is served by a combined link set, populate with a combined link set index. If the DPC is not served by a combined link set, populate with the default value. If the DPC is adjacent, populate clsindx with the default value. If clsindx is greater than 0, then the lnk_set2 attribute of this tuple must be greater than 0. This attribute is defined by the data population process.

**Attribute: dpcindx**

**Fullname:** Destination point code index

**Attribute Description** Populate with the next available DPC index value. It is defined by the data population process. The index is obtained from the next dpc index in the RLindx relation. Read the RLindx relation with the CCNADPCIDX key. Increment the max_idx attribute by one, and assign this value to the dpcindx. Finally update the RLindx tuple.

**Attribute: con_pc**

**Fullname:** SCCP Concerned Point Code

**Attribute Description** This attribute specifies whether this point code should be sent SCCP network management messages that are sent only to concerned point codes.

**Attribute: adjacent**

**Fullname:** Adjacent Point Code Indicator

**Attribute Description** This attribute indicates whether the DPC is an Adjacent Point Code
DBYES will indicate that the DPC is adjacent.
DBNO will indicate that the DPC is non-adjacent.

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# NCPVGTT

## 1. Description

NCP virtual global title translation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 50 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFR |
| application | CCS |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 2 |
| ks key store | DBNO |

## 3. Field Layout

```
NCPVGTT     relid = 1765  DBSTATIC   DBACC_CIND  DBPRAM    LPFR    CCS
     vgtidx      DMVGTIDX     (ushort: 9)     <--- key, not stored
     p_ptcode    DMPT_CODE    (ulong: 24)
     p_ncpdata   DMUNS8       (ushort: 8)
     s_ptcode    DMPT_CODE    (ulong: 24)
     s_ncpdata   DMUNS8       (ushort: 8)
         User and Compacted Tuple Layout    NCPVGTT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                 |                                             |
  0 |      vgtidx     |*********************************************|
    |---------------+---------------+---------------+---------------|
    |                                                 |               |
  4 |                    p_ptcode                     |   p_ncpdata   |
    |---------------+---------------+---------------+---------------|
    |                                                 |               |
  8 |                    s_ptcode                     |   s_ncpdata   |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
     p_ptcode    DMPT_CODE    (ulong: 24)
     p_ncpdata   DMUNS8       (ushort: 8)
     s_ptcode    DMPT_CODE    (ulong: 24)
     s_ncpdata   DMUNS8       (ushort: 8)
           Stored Tuple Layout      NCPVGTT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                 |               |
  0 |                    p_ptcode                     |   p_ncpdata   |
    |---------------+---------------+---------------+---------------|
    |                                                 |               |
  4 |                    s_ptcode                     |   s_ncpdata   |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

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## 4. Population Rules for RLncpvgtt

**Relation Description**
Spare

This relation is a spare relation.

**Attribute: vgtidx**

**Fullname:** spare

**Attribute Description** Unknown.

**Attribute: p_ptcode**

**Fullname:** spare

**Attribute Description** Unknown.

**Attribute: p_ncpdata**

**Fullname:** spare

**Attribute Description** Unknown.

**Attribute: s_ptcode**

**Fullname:** spare

**Attribute Description** Unknown.

**Attribute: s_ncpdata**

**Fullname:** spare

**Attribute Description** Unknown.

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# NET_GPID

## 1. Description

This relation maps the leased network ARSID received by the LN ACP from the LN NCP, or received by a LN Via office in a CCS7 ISUP IAM, into internal ARS voice and data Group IDs. This relation is related to the relation RLgpid_net.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 50 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |
| ks key store | DBNO |

## 3. Field Layout

```
NET_GPID    relid = 1343  DBSTATIC   DBACC_CIND  DBPRAM    LRFR    NULL
     net_arsid   DMUNS8       (ushort: 8)  <--- key, not stored
     ars_gpid    DMMCC_FID    (ushort)
     ardtgpid    DMMCC_FID    (ushort)
         User and Compacted Tuple Layout   NET_GPID
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |   net_arsid   |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            ars_gpid           |            ardtgpid           |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     ars_gpid    DMMCC_FID    (ushort)
     ardtgpid    DMMCC_FID    (ushort)
           Stored Tuple Layout     NET_GPID
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            ars_gpid           |            ardtgpid           |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLnet_gpid

**Relation Description**
Leased network ARSID to automatic route selection group ID.

This relation maps the leased network ARSID received by the LN ACP from the LN NCP, or received by a LN Via office in a CCS7 ISUP IAM, into internal ARS voice and data Group IDs.
This relation is the inverse of RLgpid_net.

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**Attribute: net_arsid**

**Fullname:** Leased Network ARSID

**Attribute Description** Leased network ARSID received by the LN ACP from the LN NCP, or received by a LN Via office in a CCS7 ISUP IAM.

**Attribute: ars_gpid**

**Fullname:** Automatic Route Selection Voice Group ID

**Attribute Description** Internal ARS voice group ID assigned to the associated ARS group name. This attribute must be populated (non-zero) for every tuple in this relation.

**Attribute: ardtgpid**

**Fullname:** Automatic Route Selection Data Group ID

**Attribute Description** Internal ARS data group ID assigned to the associated ARS group name. A zero value indicates that there is no ARS data group ID assigned.

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# NET_GSM

## 1. Description

This relation provides for SCCP information about networks known by this switch.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 16 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| relation type | DBSTATIC |
| distribution | LPFR |
| application | CCS |
| ks key store or not | AUTO |

## 3. Field Layout

```
NET_GSM     relid = 2402  DBSTATIC   DBACC_CIND  DBPRAM    LPFR    CCS
     net_num     DMUNS5       (ushort: 5)     <--- key, not stored
     gsm         DMMODULE     (ushort: 8)
 (a) sig_type    DMSIG_TYPE   (enum: 2)
 (b) sccp_type   DMSCCP_TYP   (enum: 2)
         User and Compacted Tuple Layout    NET_GSM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |          |                                                    |
  0 | net_num |****************************************************|
    |---------------+---------------+---------------+---------------|
    |               |   |   |                                        |
  4 |      gsm      | a | b |****************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     gsm         DMMODULE     (ushort: 8)
 (a) sig_type    DMSIG_TYPE   (enum: 2)
 (b) sccp_type   DMSCCP_TYP   (enum: 2)
           Stored Tuple Layout      NET_GSM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |   |   |                                        |
  0 |      gsm      | a | b |****************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLnet_gsm

**Relation Description**
SCCP Network Definition

This relation specifies information about SCCP Networks served by this switch. This relation is keyed by Network Number and is compatible with RLgsm_net.

**Attribute: net_num**

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**Fullname:** SCCP Network Number

**Attribute Description** This attribute specifies the Network Number of a SCCP Global SM.

**Attribute: gsm**

**Fullname:** Global SM

**Attribute Description** This attribute specifies Global SM's which use SCCP.

**Attribute: sig_type**

**Fullname:** Message Transfer Part (MTP) Signaling Type

**Attribute Description** This attribute specifies the MTP Signaling Type under which SCCP is running.

**Attribute: sccp_type**

**Fullname:** Signaling Connection Control Part Type

**Attribute Description** This attribute tells which specifications that SCCP is following.

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# NET_INFO

## 1. Description

This relation contains the network routesets for provisioned networks.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 254 |
| expected number of tuples | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| relation type | DBSTATIC |
| distribution | FP |
| trigger function | CCnet_info |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
NET_INFO    relid = 3122  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     netid       DMNET_ID     (ulong: 8)        <--- key
     norm_rte    DMCLNK_SET   (ushort)
     alt_rte1    DMCLNK_SET   (ushort)
     alt_rte2    DMCLNK_SET   (ushort)
         User, Compacted and Stored Tuple Layout   NET_INFO
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |     netid     |***************|            norm_rte           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            alt_rte1           |            alt_rte2           |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )


domain alNET_INFO struct  (3 sub-attributes)
         netid       .1.fake      (ulong)
         norm_rte    unsigned short (ushort)
         alt_rte     .2.fake      (array [ 2 ] of unsigned short )
                     Structure Layout    alNET_INFO
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |     netid     |***************|            norm_rte           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            alt_rte                            |
    |---------------+---------------+---------------+---------------|
```

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( 8 bytes )

## 4. Population rules for RLnet_info

### Relation Description

Network routeset relation

This relation contains the network routeset for provisioned networks.

**Attribute:**
netid
**Fullname:**
Network Identifier
**Attribute Description:**
Network Identifier, top 8 bits of 24-bit point code for NAR.

**Attribute:**
norm_rte
**Fullname:**
Normal Route
**Attribute Description:**
Normal Route, linkset (key to RLls_grp and RLls_netid) or combined linkset (key to RLcls_ls).

**Attribute:**
alt_rte1
**Fullname:**
Alternate Route 1
**Attribute Description:**
Alternate route, linkset (key to RLls_grp and RLls_netid) or combined linkset (key to RLcls_ls).

**Attribute:**
alt_rte2
**Fullname:**
Alternate Route 2
**Attribute Description:**
Alternate route, linkset (key to RLls_grp and RLls_netid) or combined linkset (key to RLcls_ls).

**Defines:**
"ccs/CCc7_param.h",
"db/DBls_stat.h"

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# NLI_LNK

## 1. Description

This relation contains the SM & NLI to TMSLNK mapping.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 380 |
| expected tuples | 32 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LR |
| application | SWMTC |
| relation type | DBSTATIC |
| trigger function | PCnli_lnktrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | unperm |

## 3. Field Layout

```
NLI_LNK     relid = 1879  DBSTATIC   DBACC_CIND  DBPRAM    LR      SWMTC
     sm          DMMODULE     (ushort: 8) <--- key
     nli         DMRELLNKNO   (ushort: 6) <--- key
     nlnk2spr    DMUNS5       (ushort: 5)
     nlnk3spr    DMUNS5       (ushort: 5)
     tsi_link    DMLINKNO     (ushort: 6)
     tmslnk_0    DMTMSLNK     (short)
     tmslnk_1    DMTMSLNK     (short)
     nli_0_cli   DMHEX32      (ulong)
     nli_1_cli   DMHEX32      (ulong)
 (a) eqstat      DMEQSTAT     (enum: 3)
     trcu0_pi    DMRELLNKNO   (ushort: 6)
     trcu1_pi    DMRELLNKNO   (ushort: 6)
         User, Compacted and Stored Tuple Layout    NLI_LNK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |           |   |         |         |           |
  0 |       sm      |    nli    |***| nlnk2spr| nlnk3spr|  tsi_link |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            tmslnk_0           |            tmslnk_1           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                           nli_0_cli                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                           nli_1_cli                           |
    |---------------+---------------+---------------+---------------|
    |     |           |           |                                 |
 16 |  a  |  trcu0_pi |  trcu1_pi |*********************************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
domain alNLI_LNK  struct  (10 sub-attributes)
```

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```
         sm          .8.fake      (ushort)
         nli         .9.fake      (ushort: 6)
         nlnk2spr    .10.fake     (ushort: 5)
         nlnk3spr    .11.fake     (ushort: 5)
         tsi_link    .12.fake     (ushort: 6)
         tmslnk      .13.fake     (array [ 2 ] of short )
         nli_cli     .14.fake     (array [ 2 ] of unsigned long )
(a)      eqstat      .15.fake     (enum: 3)
         trcu0_pi    .16.fake     (ushort: 6)
         trcu1_pi    .17.fake     (ushort: 6)
                     Structure Layout     alNLI_LNK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |           |   |         |         |           |
  0 |       sm      |    nli    |***| nlnk2spr| nlnk3spr|  tsi_link |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             tmslnk                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                            nli_cli                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                            nli_cli                            |
    |---------------+---------------+---------------+---------------|
    |     |           |           |                                 |
 16 |  a  |  trcu0_pi |  trcu1_pi |*********************************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population rules for RLnli_lnk

### Relation Description

Network Link Interface Relation.

NOTE: Unless otherwise specified, NLI will refer to NLI, NLI1 and ENLI.

This relation correlates NLIs with TMS links. It is the dual of the RLslnktms relation. Each entry in RLnli_lnk MUST have four entries in RLslnktms. The opposite is not true. RLnli_lnk ONLY lists link data for SM-2000 SMs, not for Non-SM-2000 SMs. So, for every four tuples in RLslnktms, there will be a tuple here for an SM-2000, but not for an SM.
There must be one entry in RLmodatt for each unique SM listed in this relation.
There must be four entries in RLslnktms for SMs.
There will be (4 * RLmodatt.eq_lis) for each SM-2000
There are no TMSLNKs associated with an RSM, so they will not need entries in this relation.
NLI1s used for CDX office (CM2C - 32 Mb) will have two entries in this relation.

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See discussion on relation dependencies
in the Population Rules section in RLmodatt.

**Attribute:**
sm
**Fullname:**
module number
**Attribute Description:**
This attribute uniquely identifies each module with which
the office is equipped.
The domain (DMMODULE) of this attribute is unsigned 8 bits,
therefore the maximum range is 0 to 255. However, actual
range is smaller than that. For a CM1 office this relation
should have no tuples, as SM-2000s are not supported on a CM1.
For a CM2 office (Glcm0vint=SMCM2VINT), the maximum number
of SMs is 192, so the valid range is 1 to 192.
For a CDX office the maximum number of SMs is two, only one of
which can be a SM-2000. CDX offices supports a maximum of 6 RSMs,
and the range of SM values 1 to 192 is still valid.

**Attribute:**
nli
**Fullname:**
NLI, NLI1, ENLI
**Attribute Description:**
This attribute identifies the NLI for which the non-key
attribute values describe. The current NLI range is 0 through 23.
For ENLI, the current range is 0 through 23.
The NLI1 range used in CM2C offices is only 0 through 1.
Note that NLIs MUST be grown in sets (2 per side) and the
sets MUST have identical link assignments on both sides
(thus no need for a 'side' attribute).
The number of NLIs on a specified SM is given in the
'eq_lis' attribute in the RLmodatt relation.
[Note that the 'eq_lis' starts count on 1, while NLIs are
numbered starting at 0; thus the eq_lis values will always
be larger than any NLI value.]

**Attribute:**
eqstat
**Fullname:**
equipage status
**Attribute Description:**
This attribute will show the equipage state of the NLI in question.

**Attribute:**
nlnk2spr
**Fullname:**
Spare attribute # 2

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**Attribute Description:**
Currently unused.

**Attribute:**
nlnk3spr
**Fullname:**
Spare attribute # 3
**Attribute Description:**
Currently unused.

**Attribute:**
tsi_link
**Fullname:**
TSI link number.
**Attribute Description:**
This attribute identifies the TSI link associated with the specified NLI.

**Attribute:**
tmslnk_0
**Fullname:**
TMS link numbers.
**Attribute Description:**
These attributes identify the TMS links associated with the specified NLI. tmslnk_1 is algorithmically determined based on the CM2 fabric type (single or dual) and the value of tmslnk_0.
NOTE: For NLI1 and ENLI, only tmslnk_0 is valid. The value for tmslnk_1 should be set to PCNULLTMS.
Due to FLI and Single Fabric considerations, the lowest numbered TMS link that an NLI can have is 6 (Dual fabric) and 8 (single fabric). The minimum value for an NLI link is restricted for both single and dual fabric CMs. If a single fabric CM, then the set of valid link numbers is very restricted. The relation RLslnktms has a complete set of poprule checks to enforce link assignments for single and dual fabric CMs.

**Attribute:**
tmslnk_1
**Fullname:**
TMS link numbers.
**Attribute Description:**
See tmslnk_0 attribute.
For ENLI tmslnk_1 is always set to $PCNULLTMS.
For CDX office tmslnk_1 is always set to $PCNULLTMS.

**Attribute:**
nli_0_cli
**Fullname:**

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NLI CLI value for ONTC 0.

**Attribute Description:**

This attribute identifies the NLI CLI values for the NLI in ONTC 0. There is no assumption being made concerning NLIs replacement, so provisions are made in this relation for NLI pairs to have unique CLI values.

NLI will have a CLI value of 0x0 (DGVNULL).
ENLI will have a CLI value of 0x1 (DGVENLI).
A new cli value of 0x02 is defined for NLI1 For CDX offices.

**Attribute:**

nli_1_cli

**Fullname:**

NLI CLI value for ONTC 1.

**Attribute Description:**

This attribute identifies the NLI CLI values for the NLI in ONTC 1. There is no assumption being made concerning NLIs replacement, so provisions are made in this relation for NLI pairs to have unique CLI values.

NLI will have a CLI value of 0x0 (DGVNULL).
ENLI will have a CLI value of 0x1 (DGVENLI).
A new cli value of 0x02 is defined for NLI1 For CDX offices.

**Attribute:**

trcu0_pi, trcu1_pi

**Fullname:**

TRCU path index for side 0 and side 1 of this NLI.

**Attribute Description:**

TRCU model 1 and model 2 have a different TRCU path attached to side 0 and side 1 of this NLI. This makes these attributes necessary to look up TRCU information in RLtrcupath.

**Defines:**

"db/DMtmslnk.h",
"db/DMclidef.h"

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# NM2PRID

## 1. Description

This relation contains the name to Profile ID. Also see the RLlaesprof.G relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 500 |
| expected tuples in relation | 20 |
| access type | DBACC_DHSH |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| memory type | DBPRAM |
| ks key store | DBYES |

## 3. Field Layout

```
NM2PRID     relid = 3180  DBSTATIC   DBACC_DHSH  DBPRAM    LP      RCMAP


     nameofprof  DMCHAR30     (array [ 30 ] of char )   <--- key
     lprofidx    DMCASEMAX    (ushort: 9)
     count       DMCASEMAX    (ushort: 9)
         User, Compacted and Stored Tuple Layout    NM2PRID
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                           nameofprof                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                           nameofprof                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                           nameofprof                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                           nameofprof                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                           nameofprof                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                           nameofprof                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 24 |                           nameofprof                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |               |               |
 28 |           nameofprof          |     lprofidx  |*************|
    |---------------+---------------+---------------+---------------|
    |                 |                                             |
 32 |      count      |*********************************************|
    |---------------+---------------+---------------+---------------|
```

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( 36 bytes )

## 4. Population rules for RLnm2prid

### Relation Description

Name to profile index mapping

This relation is the parent of the RLLAESPROF relation. This relation allows the use of a name of up to 30 characters to be used in the CMP by Recent Change.

**Attribute:**
nameofprof
**Fullname:**
Name of Profile Name
**Attribute Description:**
Character string containing Lawfully Authorized Electronic Surveillance (LAES) profile name.

**Attribute:**
lprofidx
**Fullname:**
Lawfully Authorized Electronic Surveillance (LAES) profile index
**Attribute Description:**
Lawfully Authorized Electronic Surveillance (LAES) profile index.

**Attribute:**
count
**Fullname:**
Count
**Attribute Description:**
Count of number of cases using the associated RLlaesprof tuple.

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# NMDCOFC

## 1. Description

Names and IDs of directly connected DSN switches subject to ARC control.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 64 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | GCRTG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| trigger function | NMarctrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
NMDCOFC     relid = 792   DBSTATIC   DBACC_HASH  DBPRAM    LP      GCRTG
     dsnofc      DMDSNOFC     (array [ 3 ] of char )  <--- key
     dsnarc_id   DMUNS6       (ushort: 6)
         User, Compacted and Stored Tuple Layout    NMDCOFC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                 |           |   |
  0 |                     dsnofc                      | dsnarc_id |***|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLnmdcofc

**Relation Description**
Names and IDs of directly connected DSN switches subject to ARC control.

Information concerning this section is not available at this time.

**Attribute: dsnofc**

**Fullname:** office name

**Attribute Description** This attribute is the DSN switch name and always contains 3 letters (A-Z). These are the offices that have direct routes with this switch and can be ARC controlled.

**Attribute: dsnarc_id**

**Fullname:** ARC id

**Attribute Description** The dsnarc_id must be unique within this relation.

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# NMIMPDGTS

## 1. Description

This relation contains the implied digits (for network management). These are used to reconstruct the full destination code of 7 digit calls and 4-6 digit calls on abbreviated signaling trunks.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 300 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |
| foldtype | DBDEFAULT |

## 3. Field Layout

```
NMIMPDGTS   relid = 446   DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     trntbl      DMTRNTBL     (struct)    <--- key
 (a)     tbltype     DMTBLTYPE    (enum: 1)
         starttbl    DMTABLE      (ulong: 20)
     steering    DMNXX        (array [ 3 ] of char )    <--- key
     npa         DMNPA        (array [ 3 ] of char )
     nxx         DMNXX        (array [ 3 ] of char )
 (b) prefix      DMPREFIX     (enum: 3)    <--- key
        User, Compacted and Stored Tuple Layout  NMIMPDGTS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+===========  trntbl ===========+===============|
    | |                                          |                   |
  0 |a|                 starttbl                 |*******************|
    |===============+===============+===============+===============|
    |                                                |               |
  4 |                     steering                   |      npa      |
    | - - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                  |                            |
  8 |              npa                 |              nxx           |
    | - - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                 |     |                                        |
 12 |      nxx        |  b  |****************************************|
    |-----------------+-----+----------------+----------------+-------|
       ( 16 bytes )
```

## 4. Population rules for RLnmimpdgt

### Relation Description

```
Network Management Implied Digits Table
This relation is used by Network Management (NM), by packet switching
(PS), and by LASS Automatic Recall (LASSAR), to derive the called
party's NPA for 7-digit line originating calls where the NPA does not
equal the Glinpa (global implied NPA) or Glpsinpa (global packet switch
implied NPA).
```

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It is used by NM to derive the NPANXX for incoming trunk abbreviated signaling calls (4-6 digits) and to derive the NPA for 7-digit incoming trunk calls.

It is used by LASS Automatic Callback (LASSAC), Seven Digit Entry of Forward-to-DNs for IDP, and SSP 800 services (SSP800) to derive, from the 10-digit public DN (NPANXXXXXX where NPA does not equal Glinpa), the dialable DN for the terminal originating the LASSAC or SSP800 call based on the starting digit analysis table for that terminal (that is, should this public DN be run through digit analysis as a 7-digit call or a 10-digit call and, if 7-digits, does it need a 1 prefixed or not). This relation is also used by LASS Screen List Editing (SLE) to get the NPA for a 7-digit number that is to be entered as a 10-digit DN on the SLE screening list where the NPA is not the Glinpa. The number to be prefixed is entered by the SLE user to be put on the user's SLE screening list and then no routing is performed on the digits dialed by the user.

There should be no tuples corresponding to calls whose Carrier Interconnect types (CITYPES) are AVT, INC, or EMRR in relations RLda_conflct.type_ci_call, RLdaprlfnl.type_ci_call, and RLdaprmfnl.type_ci_call.

**Attribute:**

prefix

**Fullname:**

Prefix index dialed for a call

**Attribute Description:**

This is the prefix index dialed for a call. It is one of the keys to determine the implied digits for a call because some 7-digit calls have a different implied NPA depending on the prefix dialed (FCPFX_NONE, FCPFX_0, or FCPFX_1).

Note that LASSAC and SSP800 must have either an FCPFX_NONE or an FCPFX_1 tuple populated to derive a 7-digit dialable DN since neither feature will prefix a 0. That is, if the public DN can only be dialed as 0+NXXXXXX for the given starting digit table, LASSAC and SSP800 will use all ten digits. If all ten digits are to be used, LASSAC uses the relation RLACPFX to determine whether a 1 should be prefixed or not. This relation is needed for LASSAC because LASSAC uses normal office screening (relation RT_SCRNING) unlike SSP800 which uses special screening.

Note that NM, LASSAR and LASS SLE read this relation with the prefix field from digit analysis which is based on how the customer dialed the call. That is, if the customer dialed NXXXXXX, the prefix value used will be FCPFX_NONE: if 1+NXXXXXX, FCPFX_1: and if 0+NXXXXXX, FCPFX_0 (NM only for 0+ calls).

Therefore, the implied NPA prefix field on the LDIT form should be filled out with the prefix value that the customer would use to dial the 7-digit DN based on the starting digit analysis table of the customer (see trntbl attribute here).

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For abbreviated signaling calls (4-6 digits) the prefix value assigned during digit analysis is always FCPFX_NONE since prefixes are not applicable for such calls. Therefore, the prefix field value for tuples containing implied digits for such calls must be FCPFX_NONE also.

The prefix field value for tuples containing implied digits for 7-digits line originating calls should be FCPFX_NONE, FCPFX_1, or FCPFX_0. For incoming trunk 7-digits calls, it should be FCPFX_NONE. The prefix field should never be FCPFX_0MINUS or NULLPREF.

**Attribute:**
trntbl
**Fullname:**
Last used translation table and starting point
**Attribute Description:**
This is a structure consisting of two attributes: tbltype and starttbl. This is a key because it makes a difference in determining a call's implied digits. For instance, two different incoming trunks may use the same steering digits and have the same FCPFX_NONE prefix index, but because the trunks have different digtrees, and therefore completely different translation tables, the calls may have completely different implied digits.

**Attribute:**
trntbl.tbltype
**Fullname:**
Translation table type
**Attribute Description:**
This attribute contains the translation table type, preliminary or primary (corresponding to RLdaprldgt and RLdaprmdgt). For 7-digit line origination calls (tuples populated from the LDIT forms/screens), the value of tbltype will be DB_PRMRY. For trunk originating calls (tuples populated from the INDIT forms/screens), the value of tbltype will be PRELIMINARY.

**Attribute:**
trntbl.starttbl
**Fullname:**
Starting point in table
**Attribute Description:**
This attribute tells the starting point used in the RLdaprldgt or RLdaprmdgt relation for the call (RLdaprmdgt for line originations and RLdaprldgt for trunk originations). This is the same value as found in either RLrc_indit or RLrc_ldit based on the terminal's digit tree index (digtree).
If trntbl.tbltype has the value PRELIMINARY, a legal value for trntbl.starttbl is one of the values used in the RLrc_indit relation's preltable field.
If trntbl.tbltype has the value DB_PRMRY, a legal value for

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trntbl.starttbl is one of the values used in the RLrc_ldit relation's primtable field.

**Attribute:**
steering
**Fullname:**
Steering digits
**Attribute Description:**
These are the non-last-four digits of 4-7 input digit string as described in the following paragraphs.
For 7-digit calls (NXX-XXXX), the non-last four digits are the NXX digits.

For 6-digits abbreviated signaling calls, these are the first two digits, padded on the RIGHT with all nulls.
For 5-digits abbreviated signaling calls, this is the first digit, padded on the RIGHT with all nulls.
For 4-digits abbreviated signaling calls, this field is ALL nulls.
A null is the character \0.

If a 5 or 6 digit abbreviated signaling call does not translate on 1 or 2 digits, respectively, no tuple is populated for that call. The composite key for this relation is prefix, trntbl, and steering digits. The steering field is at most 3 digits. Therefore, if a 7-digit call translates on more than 3 digits, only the first 3 are used for the steering field. This means that, for calls where the first 3 digits, the prefix, and the trntbl are the same the implied npa derived from this relation will be the same.
A 7 digit call is allowed to translate on less than 3 digits only when the implied npa for the call is the same as Glinpa: when the implied npa for the call is not the same as Glinpa, using less than 3 digits for translation is prohibited.

**Attribute:**
npa
**Fullname:**
Implied Numbering Plan Area
**Attribute Description:**
This is the implied npa for 4-7 digit domestic calls.
Typically, there are no tuples for 7 digit calls whose implied npa equals the Office Parameter Implied NPA (Glinpa).

Occasionally customers may find a need to populate the RLnmimpdgts with the same implied NPA as the Glinpa for 7 digit calls. This results in more tuples being populated in the RLnmimpdgts relation. This field may also equal Glinpa when the tuple corresponds to a 4-6 digit abbreviated signaling call, since such a digit pattern must always have a corresponding tuple because of the implied NXX, regardless of whether the implied NPA of the call is the same as GLinpa. Therefore, for tuples corresponding to 4-6 digit abbreviated signaling calls:

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1) the npa field must be filled in when the implied npa of the call is not the same as Glinpa.
2) the npa field may be filled in with only nulls or a valid npa when the implied npa of the call is the same as Glinpa.

For tuples corresponding to 7-digit calls, this field may be null (\0) ONLY when you want to specify that the implied npa for a 7-digit line originating call is the same as the NPA of the line originating the call. If this is the case, the implied NPA field on the LDIT form/screen should be AMB. The NPA of the originating party is determined from the terminal's rlfc_line LOCDN to derive the NOC which is then used to read rlofficecode to get the NPA.

Note that nulls in this field mean two things depending on the steering digits. If abbreviated signaling call, nulls mean use the Glinpa as the npa: if a 7-digit call, nulls mean use the npa of the calling terminal as the npa

.

When the field is not null, all 3 characters must make up a legal npa. A null npa field is three '\0's.

**Attribute:**

nxx

**Fullname:**

Implied Central Office Code

**Attribute Description:**

This is the implied nxx for 4-6 digit domestic abbreviated signaling calls. For tuples corresponding to such calls this field may never be nulls.

For tuples corresponding to 4-6 digit abbreviated signaling calls which terminate to lines in this office, the nxx must correspond to the NOC contained in the route_x attribute of the rldaprldgt relation tuple which provides digit analysis treatment for the call. The nxx to NOC correspondence is provided by the RLnoccode relation.
For tuples corresponding to 7-digit calls, however, this field must be nulls -- it is not needed since the NXX is already known.
All three characters of the field must contain a character between '0' and '9', inclusive, or be all nulls ('\0').

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# NO_PICB

## 1. Description

This relation contains the equipment location information for units which do not require a PICB for control.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10 |
| expected tuples in relation | 1 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
NO_PICB     relid = 2092  DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL


     bay         DMSMBAY      (ushort: 10)
 (a) cab_ref     DMCABREF     (enum: 2)
     unitnumber  DMUNITNO     (ushort: 8)       <--- key
     vertpos     DMUNS8       (ushort: 8)
     unittype    DMUNITTYPE   (enum: 7) <--- key
     aisle       DMCTXT4      (array [ 4 ] of char )
         User, Compacted and Stored Tuple Layout    NO_PICB
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |   |       |               |               |
  0 |        bay        | a |*******|   unitnumber  |    vertpos    |
    |---------------+---------------+---------------+---------------|
    |             | |                                               |
  4 |   unittype  |*|                     aisle                     |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |               |                                               |
  8 |     aisle     |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population rules for RLno_picb

### Relation Description

Equipment location for units without a PICB

This relation contains equipment location information for SM units which are not PICB controlled. This relation is similar to RLrc_loceq for units that are controlled via a PICB. Similar to RLrc_loceq, the information in RLno_picb is a subset of the RLrc_eqloc relation.

**Attribute:**

unittype

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**Fullname:**
Unit type
**Attribute Description:**
The type of peripheral unit.

**Attribute:**
unitnumber
**Fullname:**
Unit number
**Attribute Description:**
The number that identifies the selected peripheral unit.

**Attribute:**
aisle
**Fullname:**
Aisle number
**Attribute Description:**
Aisle number where unit is located.

**Attribute:**
bay
**Fullname:**
Bay number
**Attribute Description:**
Bay in which unit is located.

**Attribute:**
cab_ref
**Fullname:**
Cabinet reference
**Attribute Description:**
Describes the physical placement of a hardware unit with respect to a 5ESS(R)-2000 switch cabinet. Specifically, a PDXU unit is placed in the rear of a cabinet.

**Attribute:**
vertpos
**Fullname:**
Vertical position.
**Attribute Description:**
Vertical position of the unit.

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# NOCCODE

## 1. Description

This relation contains the digits to noc.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8991 |
| expected tuples in relation | 500 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| application | GCRTG |
| relation type | DBSTATIC |

## 3. Field Layout

```
NOCCODE     relid = 152   DBSTATIC   DBACC_HASH  DBPRAM    LPFR    GCRTG
     nxx          DMNPANXX     (array [ 6 ] of char )     <--- key
     ffcf2        DMUSHORT     (ushort)
     noc          DMNOC        (ushort: 14)
     usecnt       DMUNL10      (ulong: 10)
     ffcf1        DMUNL8       (ulong: 8)
     rax          DMRAX        (ushort: 7)
 (a) basenpa      DMBOOL       (enum: 1)
     npa          DMNPA        (array [ 3 ] of char )     <--- compacted
             User Tuple Layout   NOCCODE
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                               nxx                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  4 |              nxx              |              ffcf2            |
    |---------------+---------------+---------------+---------------|
    |                           |                   |               |
  8 |            noc            |       usecnt      |     ffcf1     |
    |---------------+---------------+---------------+---------------|
    |             | |                                               |
 12 |     rax     |a|                      npa                      |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
     nxx          DMNPANXX     (array [ 6 ] of char )     <--- key
     ffcf2        DMUSHORT     (ushort)
     noc          DMNOC        (ushort: 14)
     usecnt       DMUNL10      (ulong: 10)
     ffcf1        DMUNL8       (ulong: 8)
     rax          DMRAX        (ushort: 7)
 (a) basenpa      DMBOOL       (enum: 1)
     npa          DMUNL10      (ulong: 10)     <--- compacted
        Compacted and Stored Tuple Layout   NOCCODE
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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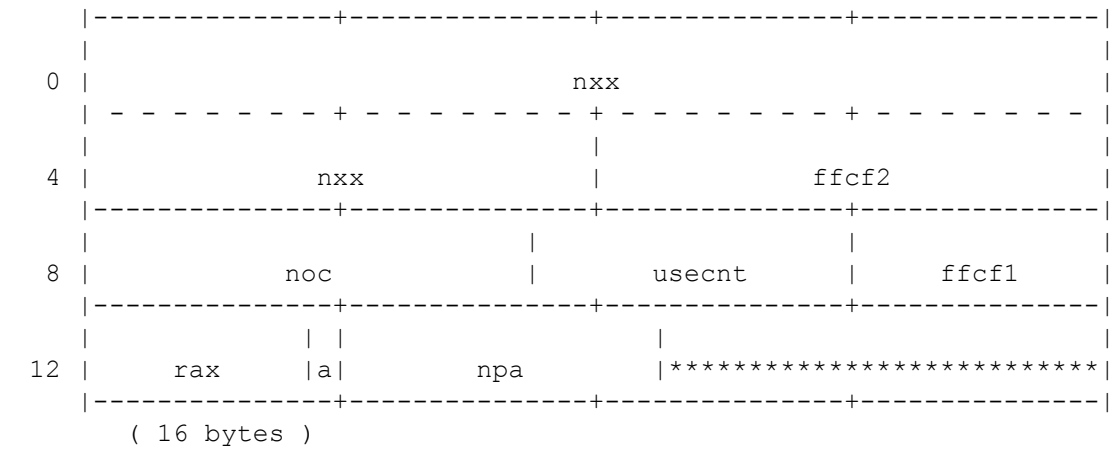


## 4. Population Rules for RLnoccode

**Relation Description**
Noc code

Digits to noc

**Attribute: nxx**

**Fullname:** office code, or area code and office code

**Attribute Description** Office code, or area code concatenated with the office code (left justified string). Traditionally, office codes are of the form NXX. For 5E3, the 0XX and 1XX Routing feature allows office codes of 0XX and 1XX, provided for special uses to preserve standard office code ranges. These are typically used for INWATS lines. Since 0XX and 1XX are being excluded from the LDIT, these lines can only be terminated to from an incoming trunk. This is a 1AESS Transparency feature.

**Attribute: noc**

**Fullname:** normalized office code

**Attribute Description** Normalized office code.

**Attribute: npa**

**Fullname:** area code

**Attribute Description** Area code.

**Attribute: basenpa**

**Fullname:** base npa indicator

**Attribute Description** Base npa indicator. The basenpa indicator is set to DBYES when the npa is associated with the first unique 3-digit nxx value assigned in the office, else basenpa is set to DBNO.

From a customer perspective, the basenpa is not provisionable via RC. When inserting a group of noc views (8.2) having the same nxx on different npa's via Recent Change, the basenpa indicator is set to DBYES automatically for the first nxx inserted.

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For ODA, the situation is different. Because ODA does not sequence the input forms, there is no concept of "first" nxx. Therefore the basenpa indicator must be provisioned by a required attribute on the ODA noc form. ODA requires that within a set of noc forms defining the same nxx, exactly one of them must have the BASENPA indicator set to Y.

**Attribute: usecnt**

**Fullname:** use count

**Attribute Description** This attribute applies only to tuples containing a 3-digit nxx. It is a count of all other RLnoccode tuples containing a 6-digit nxx (NPA + nxx) whose last 3 digits (nxx) match this 3-digit nxx. In other words, it is a count of NPAs having that nxx. The usecnt attribute is set to zero on all tuples with a 6-digit nxx.

**Attribute: rax**

**Fullname:** default rate area

**Attribute Description** Rate center. Used in RLrc_dninfo and in RLrc_oeinfo. Default value is 0. When a line is inserted or updated and no rax is provided, then the rax stored in this relation will be used.

**Attribute: ffcf1**

**Fullname:** spare

**Attribute Description** spare attribute for future use

**Attribute: ffcf2**

**Fullname:** spare

**Attribute Description** spare attribute for future use

**Defines:** "db/DMnxx.h",
"db/DMnpanxx.h",
"db/DMnpa.h"

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# NON_USA

## 1. Description

Table containing NPA-NXXs which are considered outside the United States, and corresponding home country information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 350 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
NON_USA     relid = 1910  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     npanxx      DMBNPANXX    (ulong: 20)     <--- key
     oaff1       DMUNS11      (ushort: 11)
 (a) member      DMBOOL       (enum: 1)
     home_country  DMCHAR3      (array [ 3 ] of char )
     oaff2       DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout    NON_USA
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                         |                     | |
  0 |                  npanxx                 |        oaff1        |a|
    |---------------+---------------+---------------+---------------|
    |                                         |                     |
  4 |                   home_country          |     oaff2     |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLnon_usa

**Relation Description**
Non-U.S. NPA-NXXs

An entry in this table indicates that a call to this NPA-NXX will terminate outside of the United States.

An entry in this table indicates that a call to this NPA-NXX will terminate outside of the United States. If the NPA-NXX of the forward number is not found in this table, it is assumed to be a domestic (within the U.S.) call. For non-domestic calls, the home_country is a three-character identifier used to determine whether a card call is to the country of the card issuer or to a third country (non-U.S. and non-home country) by comparing it to the home_country attribute entered on the Card Issuer form (TCCID) or view (27.55).

**Attribute: npanxx**

**Fullname:** npanxx is the NPA-NXX of a non-U.S. forward number.

**Attribute Description** If a tuple with NPA000 or NPA-NXX of the forward number is found, it is assumed that the call terminates outside the U.S.

**Attribute: home_country**

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**Fullname:** Home country identifier for the NPA-NXX.

**Attribute Description** For a card call with an International Credit Card Validation (ICCV) card issuer, if the forward number is in North American Numbering Plan (NPA-NXX) format, that NPA-NXX is used to search this table. If found, and the home_country matches that of the card issuer, the call is a home country call; otherwise, it is a third country call. If the NPA-NXX is not found in this table the call is a domestic (within the U.S.) call.

**Attribute: member**

**Fullname:** member

**Attribute Description** This field specifies whether the country identified by the NPANXX is a member of the group of countries which allow DIOR calls to terminate to other group members.

**Attribute: oaff1**

**Fullname:** Spare Field 1

**Attribute Description** Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

**Attribute: oaff2**

**Fullname:** Spare Field 2

**Attribute Description** Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

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# NPA_HEAD

## 1. Description

This relation, keyed by the NPA, contains query information about an NPA subgroup, which is defined as the group of 100 consecutive NXX's or (0/1)XX of a given NPA/RAO. An NPA/RAO consists of the following subgroups: RAO-0XX, RAO-1XX, NPA-2XX, NPA-3XX, NPA-4XX, NPA-5XX, NPA-6XX, NPA-7XX, NPA-8XX, NPA-9XX.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 800 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |
| permutation type | un_perm |

## 3. Field Layout

```
NPA_HEAD    relid = 1154  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     npa          DMUNS10       (ushort: 10)  <--- key
  (a) q2bit0      DMUNS2        (ushort: 2)
  (b) q2bit1      DMUNS2        (ushort: 2)
  (c) q2bit2      DMUNS2        (ushort: 2)
  (d) q2bit3      DMUNS2        (ushort: 2)
  (e) q2bit4      DMUNS2        (ushort: 2)
  (f) q2bit5      DMUNS2        (ushort: 2)
  (g) q2bit6      DMUNS2        (ushort: 2)
  (h) q2bit7      DMUNS2        (ushort: 2)
  (i) q2bit8      DMUNS2        (ushort: 2)
  (j) q2bit9      DMUNS2        (ushort: 2)
         User, Compacted and Stored Tuple Layout   NPA_HEAD
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |   |   |   |   |   |   |   |   |   |   |   |
  0 |        npa        | a | b | c | d | e | f | g | h | i | j |***|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLnpa_head

**Relation Description**
NPA header.

This relation contains query information about the ten NPA subgroups within an NPA. An NPA subgroup is defined as the group of 100 consecutive NXX's or (0/1)XX's of a given NPA/RAO. An NPA/RAO consists of the following subgroups: RAO-0XX, RAO-1XX, NPA-2XX, NPA-3XX, NPA-4XX, NPA-5XX, NPA-6XX, NPA-7XX, NPA-8XX, NPA-9XX. These are designated NPA subgroups NPA0, NPA1, NPA2, NPA3, NPA4, NPA5, NPA6, NPA7, NPA8, NPA9, respectively. There are ten 2-bit long attributes, called q2bit0 through q2bit9, containing query information for NPA subgroups NPA0 through NPA9, respectively.

The q2bit provides the following query information for the corresponding NPA subgroup:

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| q2bit | query LIDB database |
|---|---|
| 00 | No |
| 01 | Yes |
| 10 | See RLnpa_nxx |
| 11 | Disallowed |

**Attribute: npa**

**Fullname:** Numbering Plan Area

**Attribute Description** Populated only with NPA's in service.

**Attribute: q2bit[*]**

**Fullname:** Query 2-bit

**Attribute Description** Gives some query destination information for an NPA subgroup within an NPA.

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# NPA_NXX

## 1. Description

This relation contains information as to where the query should be sent to for each NXX / (0/1)XX of a given NPA subgroup.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1920 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 2048 |
| data page size | 256 |
| page level | 2 |
| permutation type | un_perm |

## 3. Field Layout

```
NPA_NXX     relid = 1155  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     npa_grp     DMNPA_GRP    (ushort: 14) <--- key
     q8bit0      DMUCHAR      (uchar)
     q8bit1      DMUCHAR      (uchar)
     q8bit2      DMUCHAR      (uchar)
     q8bit3      DMUCHAR      (uchar)
     q8bit4      DMUCHAR      (uchar)
     q8bit5      DMUCHAR      (uchar)
     q8bit6      DMUCHAR      (uchar)
     q8bit7      DMUCHAR      (uchar)
     q8bit8      DMUCHAR      (uchar)
     q8bit9      DMUCHAR      (uchar)
     q8bit10     DMUCHAR      (uchar)
     q8bit11     DMUCHAR      (uchar)
     q4bit       DMUNS4       (ushort: 4)

          User, Compacted and Stored Tuple Layout    NPA_NXX
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |   |               |               |
  0 |          npa_grp              |***|     q8bit0    |     q8bit1    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |     q8bit2    |     q8bit3    |     q8bit4    |     q8bit5    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  8 |     q8bit6    |     q8bit7    |     q8bit8    |     q8bit9    |
    |---------------+---------------+---------------+---------------|
    |               |               |       |                       |
 12 |    q8bit10    |    q8bit11    | q4bit |***********************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )

domain alNPA_NXX  struct  (3 sub-attributes)
         npa_grp     .2.fake      (ushort: 14)
```

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```
        q8bit       .3.fake      (array [ 12 ] of unsigned char )
        q4bit       .4.fake      (ushort: 4)
                    Structure Layout     alNPA_NXX
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                             |   |                             |
  0 |          npa_grp            |***|             q8bit           |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                             q8bit                             |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             q8bit                             |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |       |                       |
 12 |             q8bit             | q4bit |***********************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population rules for RLnpa_nxx

### Relation Description

NPA-NXX

This relation contains query information about a given NPA subgroup within an NPA. An NPA subgroup is defined as the group of 100 consecutive NXX's or (0/1)XX of a given NPA/RAO. An NPA/RAO consists of the following subgroups: RAO-0XX, RAO-1XX, NPA-2XX, NPA-3XX, NPA-4XX, NPA-5XX, NPA-6XX, NPA-7XX, NPA-8XX, NPA-9XX. These are designated NPA subgroups NPA0, NPA1, NPA2, NPA3, NPA4, NPA5, NPA6, NPA7, NPA8, NPA9, respectively. The member of an NPA subgroup is generally denoted as NPA-YXX, with 'Y' constrained to a decimal digit. There are 12 attributes of 8 bits each plus an attribute of 4 bit long, comprising 100 bits of data. Each bit corresponds to each of the 100 YXX's of the NPA subgroup. The YXX is arranged in ascending order in increments of one starting with the lowest bit of q8bit0 to the highest bit of q8bit11 through the highest order bit of q4bit. A '1' and '0' indicates the LIDB and BVA is populated with the billing data for this RAO/NPA-NXX, respectively.

See Main Description
end relation;

**Attribute:**

npa_grp

**Fullname:**

NPA Group

**Attribute Description:**

Populated only when the 100 bits are not identical

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**Attribute:**
q8bit[*]
**Fullname:**
Query 8bit 0 through 11
**Attribute Description:**
'0' and '1' indicate the query destinations of BVA and LIDB, respectively.

**Attribute:**
q4bit
**Fullname:**
Query 4bit
**Attribute Description:**
'0' and '1' indicates the query destinations of BVA and LIDB, respectively.

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# NPA_SCRN

## 1. Description

List of npa nxx combinations to screen for long distance.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1587 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| permutation type | un_perm |

## 3. Field Layout

```
NPA_SCRN    relid = 1852  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     npa          DMNPA        (array [ 3 ] of char )  <--- key
     nxx          DMNXX        (array [ 3 ] of char )  <--- key
     xtra1        DMCHAR       (char)
 (a) xtra2        DMBOOL       (enum: 1)
 (b) xtra3        DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout   NPA_SCRN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                       npa                     |      nxx      |
    | - - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                 |               | | |           |
  4 |               nxx               |     xtra1     |a|b|***********|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLnpa_scrn

**Relation Description**
NPA NXX screening relation.

This relation is used to screen ccs7 calls to see if we want to treat them as local.

**Attribute: npa**

**Fullname:** NPA

**Attribute Description** NPA to treat as local.

**Attribute: nxx**

**Fullname:** NXX

**Attribute Description** NXX to treat as local.

**Attribute: xtra1**

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**Fullname:** xtra1 spare

**Attribute Description** Spare special feature attribute.

**Attribute: xtra2**

**Fullname:** xtra2 spare

**Attribute Description** Spare special feature attribute.

**Attribute: xtra3**

**Fullname:** xtra3 spare

**Attribute Description** Spare special feature attribute.

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# NPA_SM

## 1. Description

Maps NPAs or RAOs to SMs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
NPA_SM      relid = 2084  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     bnparao     DMUNS10      (ushort: 10)     <--- key
     spare1      DMUNS6       (ushort: 6)
     sm          DMMODULE     (ushort: 8)
     spare2      DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout NPA_SM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |           |               |               |
  0 |      bnparao      |   spare1  |       sm      |     spare2    |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLnpa_sm

**Relation Description**
Numbering plan area (NPA) to switching module (SM) mapping

This relation indicates on which SM the data in RLleccrd and RLlecrng is stored. The mapping is per NPA/RAO.

**Attribute: bnparao**

**Fullname:** Binary NPA or revenue accounting office (RAO)

**Attribute Description** The NPA or RAO whose data is mapped to SM.

**Attribute: sm**

**Fullname:** Switching module

**Attribute Description** Switching module on which data for this NPA/RAO is stored.

**Attribute: spare1**

**Fullname:** Spare field 1

**Attribute Description** Spare for future development.

**Attribute: spare2**

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**Fullname:** Spare field 2

**Attribute Description** This is a spare to be used in future development.

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# NPA2NPD

## 1. Description

This relation contains the Numbering Plan Area (NPA) to Numbering Plan Digit (NPD) Translation Table for E911 Calls.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 900 |
| expected tuples | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| spare bits | 1b |

## 3. Field Layout

```
NPA2NPD     relid = 3186  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL


     npa         DMBINNPA     (ushort: 10)      <--- key
     npd         DMNPD        (uchar: 2)
         User, Compacted and Stored Tuple Layout    NPA2NPD
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |   |                                       |
  0 |        npa        |npd|***************************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population rules for RLnpa2npd

**Relation Description**

Numbering Plan Area (NPA) to Numbering Plan Digit (NPD) Translation Table for E911 (emergency) Calls

RLnpa2npd provides a mapping of a 3 digit NPA to a single digit NPD. This enables full use of Signaling System 7 (SS7) which can carry multiple area codes to interface to 8-Digit Centralized Automatic Message Accounting (CAMA) Public Safety Answering Points (PSAP).

This relation is originally used for feature 99-5E-7124, NPA to NPD Translation Table for E911 Calls.

**Attribute:**

npa

**Fullname:**

numbering plan area

**Attribute Description:**

This key attribute is the NPA associated with an SS7 E911 call.

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**Attribute:**
npd
**Fullname:**
numbering plan digit
**Attribute Description:**
This attribute is the numbering plan digit associated with an NPA.

**Defines:**

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# NPASPLIT

## 1. Description

Each tuple contains an original Numbering Plan Area (NPA) and a new NPA associated with a NPA split. A NPA split refers to the interval during which 1 NPA is being divided into 2 NPAs, with the original being one of them. For any NPA split, two tuples will be populated in this relation. The "new_npa" attribute indicates which is the new NPA.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 64 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| application type | NULL |
| relation type | DBSTATIC |
| keyshift | 0 |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| index length | 0 |

## 3. Field Layout

```
NPASPLIT    relid = 1848  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     npa         DMUSHORT     (ushort) <--- key
     splitno     DMUSHORT     (ushort) <--- key
     assoc_npa   DMUSHORT     (ushort)
     char_fill   DMCHAR       (char)
 (a) interval    DMDIALP      (enum: 2)
 (b) new_npa     DMBOOL       (enum: 1)
 (c) tcapscrn    DMBOOL       (enum: 1)
 (d) digscrn     DMBOOL       (enum: 1)
 (e) sleadd      DMBOOL       (enum: 1)
 (f) sledel      DMBOOL       (enum: 1)
 (g) bool4_fill  DMBOOL       (enum: 1)

         User, Compacted and Stored Tuple Layout   NPASPLIT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |              npa               |            splitno            |
    |---------------+---------------+---------------+---------------|
    |                                |               |   | | | | | | |
  4 |           assoc_npa            |   char_fill   | a |b|c|d|e|f|g|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLnpasplit

### Relation Description

```
        Local Area Signaling Services (LASS) Numbering Plan

        Area (NPA) Split Resolution
```

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This relation will be populated for offices experiencing a Numbering Plan Area (NPA) split. A NPA split refers to the interval during which 1 NPA is being divided into 2 or more NPAs, with the original being one of them.
Each tuple contains an original NPA and a new NPA associated with a NPA split. For any NPA split, two tuples will be populated in this relation. The new_npa attribute indicates which is the new NPA.

**Attribute:**
npa
**Fullname:**
Numbering Plan Area
**Attribute Description:**
Numbering Plan Area (NPA) received for calling or called number.

**Attribute:**
splitno
**Fullname:**
NPA split number
**Attribute Description:**
Associated key used to identify when one new NPA is being split from multiple existing NPAs or when multiple new NPAs are being split from one existing NPA. Ex. sections of old NPA values 312, 708, and 815 are being split into one new NPA 416, the relation would be populated accordingly:

| | | | | | | |
|---|---|---|---|---|---|---|
| npa | 312 | 708 | 815 | 416 | 416 | 416 |
| splitno | 0 | 0 | 0 | 0 | 1 | 2 |
| assoc_npa | 416 | 416 | 416 | 312 | 708 | 815 |
| new_npa | DBNO | DBNO | DBNO | DBYES | DBYES | DBYES |

The splitno key allows multiple splits to occur.

**Attribute:**
assoc_npa
**Fullname:**
Associate Numbering Plan Area
**Attribute Description:**
Associated NPA related to a NPA split.

**Attribute:**
char_fill
**Fullname:**
Char relation filler
**Attribute Description:**
Used in RC for the update and delete cases.

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**Attribute:**
interval
**Fullname:**
This field is not used in the 5e8 software release.
**Attribute Description:**
None.

**Attribute:**
new_npa
**Fullname:**
New NPA indicator
**Attribute Description:**
Indicates old or new NPA. If set to DBYES, the npa value stored is the new NPA value. If set to DBNO, the npa value stored is the old NPA value.

**Attribute:**
tcapscrn
**Fullname:**
TCAP screening option
**Attribute Description:**
If set to yes, provide validation of TCAP queries for AC/AR and SLE on 7 digits if the TCAP NPA is found in the NPA split table (RLnpasplit). If the NPA is not found in the NPA split table, 10 digit validation is done.

**Attribute:**
digscrn
**Fullname:**
Digit screening option
**Attribute Description:**
If set to yes, provide 7 digit screening for those calling DNs whose NPA is in the NPA split table (RLnpasplit). If the 7-digit DN is in the screening list, make sure the screening list NPA is related to the same NPA split as the calling DNs NPA. For cases not included above, provide 10 digit screening. For any calls that fail validation or screening, use current error treatment.

**Attribute:**
sleadd
**Fullname:**
SLE Add screening option
**Attribute Description:**
If set to YES, when checking the screening list during the SLE add processing, the NPA split table (RLnpasplit) must be checked.

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**Attribute:**
sledel
**Fullname:**
SLE Delete screening option
**Attribute Description:**
If set to YES, when checking the screening list during the SLE delete processing, the NPA split table (RLnpasplit) must be checked.

**Attribute:**
bool4_fill
**Fullname:**
Bool4 relation filler
**Attribute Description:**
Used for future expansion

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# NPATG

## 1. Description

This relation is used for NPA Handling By Trunk Group feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| expected number of tuples | 100 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
NPATG       relid = 2926  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     oaff4       DMUSHORT     (ushort)
     tgn         DMGRUPNM     (ushort: 13) <--- key
     oaff1       DMUNS3       (ushort: 3)
     nxx         DMUNS10      (ushort: 10) <--- key
     oaff2       DMUNS6       (ushort: 6)
     true_npa    DMUNS10      (ushort: 10)
     oaff3       DMUNS6       (ushort: 6)

          User, Compacted and Stored Tuple Layout  NPATG
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                           |     |
  0 |             oaff4             |            tgn            |oaff1|
    |---------------+---------------+---------------+---------------|
    |                   |           |                   |           |
  4 |        nxx        |   oaff2   |      true_npa     |   oaff3   |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLnpatg

### Relation Description

RLnpatg will be used in 5E13 by the NPA Handling By Trunk Group feature.
RLnpatg is being used by NPA Handling By Trunk Group Feature

**Attribute:**
tgn
**Fullname:**
TGN Key.
**Attribute Description:**
This is the Trunk Group Number for the NPA Handling By Trunk Group feature. The allowable values on this field is between 1 - 4000.

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**Attribute:**
oaff1
**Fullname:**
first unsigned short attribute
**Attribute Description:**
Unknown.

**Attribute:**
nxx
**Fullname:**
NXX Key.
**Attribute Description:**
This is the NXX for the NPA Handling By Trunk Group feature.
The allowable values are between 200 - 999.

**Attribute:**
oaff2
**Fullname:**
second unsigned short attribute
**Attribute Description:**
Unknown.

**Attribute:**
true_npa
**Fullname:**
True Number Planning Area (NPA).
**Attribute Description:**
This the TRUE NPA for the NPA Handling By Trunk Group feature.
The allowable values are between 200 - 999.

**Attribute:**
oaff3
**Fullname:**
second unsigned short attribute
**Attribute Description:**
Unknown.

**Attribute:**
oaff4
**Fullname:**
fourth unsigned short attribute.
**Attribute Description:**
Unknown.

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# NS_TRIG

## 1. Description

This relation contains the Network Services trigger table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 255 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |
| spare | 32l |

## 3. Field Layout

```
NS_TRIG     relid = 1858  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL


    postqry_si  DMSCRNIDX    (ushort: 12)
 (a) app_typ     DMAPPL_TYP   (enum: 3)
 (b) active      DMBOOL       (enum: 1)
    spare_3     DMUNS12      (ushort: 12)
 (c) protocol    DMTCPROTO    (enum: 2)
 (d) serv_key    DMSERV_KEY   (enum: 2)
    tran_typ    DMUNS9       (ushort: 9)
    postq_das   DMDA_TREE    (ushort: 7)
    spare_6     DMUCHAR      (uchar)
    trignum     DMUNS8       (ushort: 8)       <--- key
 (e) servalw     DMSERVALW    (enum: 2)
 (f) spare_1     DMBOOL       (enum: 1)
 (g) spare_2     DMBOOL       (enum: 1)
 (h) spare_4     DMBOOL       (enum: 1)
 (i) spare_5     DMBOOL       (enum: 1)
 (j) tollfree    DMBOOL       (enum: 1)
 (k) vpntrig     DMBOOL       (enum: 1)
 (l) qortrig     DMBOOL       (enum: 1)
 (m) use_curr_das  DMBOOL       (enum: 1)
 (n) dnistrig    DMBOOL       (enum: 1)
 (o) eontrig     DMBOOL       (enum: 1)
    title       DMDN         (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
        User, Compacted and Stored Tuple Layout    NS_TRIG
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                       |     | |                       |   |   |
 0 |       postqry_si      |  a  |b|        spare_3        | c | d |
   |---------------+---------------+---------------+---------------|
   |                 |             |               |               |
 4 |     tran_typ    |  postq_das  |    spare_6    |    trignum    |
   |---------------+---------------+---------------+---------------|
   |   | | | | | | | | | |                                       |
```

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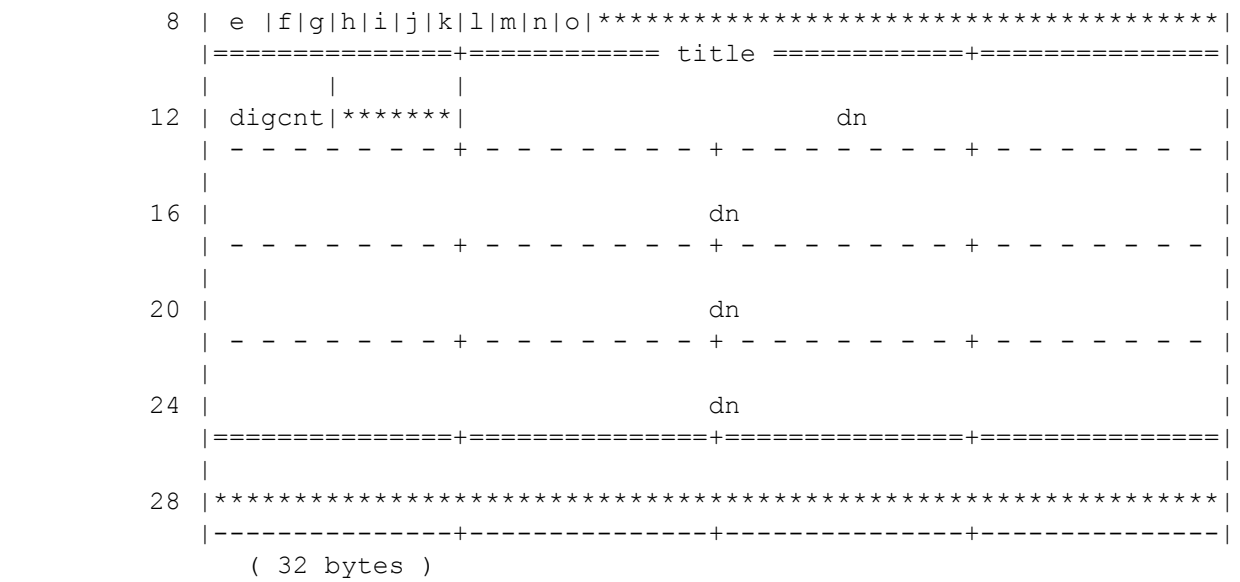


## 4. Population rules for RLns_trig

### Relation Description

Network Services Trigger Table

This tuple supplies query formulation data for network features

**Attribute:**
trignum
**Fullname:**
Trigger Number
**Attribute Description:**
Specifies the unique Network Services Trigger

**Attribute:**
protocol
**Fullname:**
Protocol
**Attribute Description:**
Specifies the TCAP protocol

**Attribute:**
tran_typ
**Fullname:**
Translation Type
**Attribute Description:**
This field identifies the translation type used by Network Services. In range values are 0 to 255, 256 is an out of range value.

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**Attribute:**
active
**Fullname:**
Active Status
**Attribute Description:**
Activation status of an ASP Trigger.

**Attribute:**
title
**Fullname:**
Alternate Global Title
**Attribute Description:**
Alternate Global title is used by the STP to select an SCP when call processing can not construct a valid Global Title.

**Attribute:**
title.digcnt
**Fullname:**
Digit Count.
**Attribute Description:**
Directory number digits.

**Attribute:**
title.dn
**Fullname:**
Directory Number.
**Attribute Description:**
Directory Number code

**Attribute:**
serv_key
**Fullname:**
Service Key
**Attribute Description:**
Indicates whether the originator's number(ANI) or the called party's number(dialed number) will be used for service key query formulation.
FCSKNULL - Null value.
FCSKANI - Indicates ANI should be used in query formulation.
FCSKCDPN - Indicates CalleD Party Number should be used in query formulation
.

**Attribute:**
app_typ
**Fullname:**
Application type
**Attribute Description:**
Identifies which network service is active.

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FCAPNULL - services not known at this timeT(Call Processing only).
FCAPASP - indicates ASP services are requested.
FCSEAOFC - indicates shared inter-office Equal Access to DNTs.
FCAPE911 - indicates Enhanced 911 query.
FCAP800 - indicates a Number Services 800 query is required.

**Attribute:**
postqry_si
**Fullname:**
Post query screen index
**Attribute Description:**
The post query screen index identifies the screen index to use after an Advanced Services Platform (ASP) query. This screen index will be used for post query routing and charging.

**Attribute:**
spare_1
**Fullname:**
spare bit
**Attribute Description:**
Not currently used

**Attribute:**
spare_2
**Fullname:**
spare bit
**Attribute Description:**
Not currently used

**Attribute:**
spare_3
**Fullname:**
spare unsigned 12
**Attribute Description:**
Not currently used

**Attribute:**
spare_4
**Fullname:**
spare bit
**Attribute Description:**
Not currently used

**Attribute:**
spare_5

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**Fullname:**
spare bit
**Attribute Description:**
Not currently used

**Attribute:**
spare_6
**Fullname:**
spare char
**Attribute Description:**
Not currently used

**Attribute:**
servalw
**Fullname:**
Service Allowed
**Attribute Description:**
Specifies originating service types that will be allowed to encounter the ASP trigger defined using the trignum referencing this RLns_trig tuple.

FCSA_VOICE - Voice
FCSA_CSD - Circuit Switched Data (CSD)
FCSA_BOTH - Both Voice and CSD

**Attribute:**
tollfree
**Fullname:**
Toll-free Indicator
**Attribute Description:**
Indicates whether the ASP 3/6/10 digit trigger defined using the trignum referencing this RLns_trig tuple should be treated as an ASP Toll-free trigger

**Attribute:**
postq_das
**Fullname:**
Post query digit analysis tree selector
**Attribute Description:**
This attribute contains the digit analysis tree selector to be used for analyzing digits after a response to an ASP query has been received.

**Attribute:**
vpntrig
**Fullname:**
VPN trigger detection
**Attribute Description:**

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This attribute, if set to DBYES, indicates a Virtual Private Network (VPN) trigger exist.

**Attribute:**
qortrig
**Fullname:**
Query on Release trigger
**Attribute Description:**
This attribute, if set to DBYES, indicates this trigger is a (Local) Number Portability Query on Release for Location Routing Number (NP - QOR for LRN) trigger.

**Attribute:**
use_curr_das
**Fullname:**
Use Current DAS
**Attribute Description:**
Indicates whether the current digit analysis selector (DAS) in effect on the call pre-query should be used for digit analysis post query. This attribute will only apply when the trigger is a DNT.

**Attribute:**
dnistrig
**Fullname:**
Dialed Number Identification Service (DNIS) trigger
**Attribute Description:**
This attribute, if set to DBYES, identifies this trigger as a DNIS trigger for the Transport of Original Dialed Number (DNIS II) Feature.

SFID498 must be unlocked before dnistrig can be set to DBYES. SFID498 is temporary and will only be supported in 5E13 BMI. Beginning in 5E13 SU, SFID498 will be replaced with SFID271, which is the SFID for DNIS, Phase I.

**Attribute:**
eontrig
**Fullname:**
End Office Nodal (EON) trigger
**Attribute Description:**
This attribute, if set to DBYES, identifies this trigger as an EON trigger for the AT&T Digital Link Phase 5 (ADL5) Feature.

SFID515 must be unlocked before eontrig can be set to DBYES.

**Defines:**

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```
"db/DMservalw.h"
```

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# NSC_DPC

## 1. Description

ECIS6 relation for mapping the NSC to its destination point code and link set.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 8 |
| expected number of tuples | 1 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
NSC_DPC     relid = 2541  DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL
     dpc         DMPT_CODE    (ulong: 24)
     linkset     DMUNS7       (ushort: 7)     <--- key
     nsc_ind     DMSL_GROUP   (ushort: 6)     <--- key
         User, Compacted and Stored Tuple Layout    NSC_DPC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |             | |
  0 |                      dpc                      |   linkset   |*|
    |---------------+---------------+---------------+---------------|
    |           |                                                   |
  4 |  nsc_ind  |***************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLnsc_dpc

**Relation Description**
Network Service Complex to Destination Point Code.

This is an embedded CCIS6 (ECIS6) interworking relation for mapping a network services complex (NSC) index to its North American CCS7 (CCSNA7) destination point code (DPC) and link set number.

**Attribute: nsc_ind**

**Fullname:** Network Services Complex index

**Attribute Description** This attribute will identify an NSC that is attached to the ACP in the network.

The tuple for an NSC in this relation cannot be deleted (that is, the NSC de-grown from the office) if there are any voice trunks to that NSC still populated for the office. If there are voice trunks still populated, then there will be a tuple in the RLlab6_pci relation with the nsc_ind from this relation in the sl_group field. Before a tuple is deleted from this relation, make sure the RLlab6_pci tuple that has this nsc_ind in the sl_group field has been deleted.

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It is critical that the number assigned for the NSC index of an NSC be the same number that is assigned to the sl_group attribute in the RLlab6prt relation for that NSC. This will ensure that the signaling messages are sent to the same NSC (point code) as the voice trunks going to that NSC.

**Attribute: linkset**

**Fullname:** Link set number

**Attribute Description** This identifies the CCSNA7 link set that goes to the indicated NSC.

**Attribute: dpc**

**Fullname:** Destination Point Code

**Attribute Description** This identifies the CCSNA7 Destination Point Code (DPC) of this NSC.

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# NSFMAP

## 1. Description

This relation contains the associates EDSL call by call service type with pre-routing index.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |

## 3. Field Layout

```
NSFMAP      relid = 827   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    GCRTG


     fac_num     DMUNS17      (ulong: 17)       <--- key
     carrid      DMBCARID     (ushort: 14)      <--- key
     scocsid     DMUNS17      (ulong: 17)       <--- key
     eprtidx2    DMEPRTE2     (ushort: 10)
     nsftype     DMNSFTYPE    (enum: 4) <--- key
     band        DMOWATSBND   (uchar: 8)        <--- key
     bearcap     DMBEARCAP    (enum: 4) <--- key
         User, Compacted and Stored Tuple Layout NSFMAP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |              fac_num            |           carrid            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                     |       | |
  4 |              scocsid            |      eprtidx2       |nsftype|*|
    |---------------+---------------+---------------+---------------|
    |                 |       |                                       |
  8 |      band       |bearcap|***************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population rules for RLnsfmap

### Relation Description

```
        EDSL call by call service type

         Associates EDSL call by call
         service type with pre-routing index.


       " This relation along with RLedsltrkg and RLedslgprt provide
         data for the EDSL call by call service selection feature.  In
         addition RLrcnsfmap is used by RC to support administration of
         RLnsfmap (See population rules for RLedsltrkg, RLedslgprt and
```

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RLrcnsfmap).

Call by call service selection allows multiple services to be assigned to a trunk group. On a per call basis, the service being used is indicated in the Network Specific Facilities (NSF) element of a Q.931 message. Call by call services that may have SFGs are:

OUTWATS specifying a specific band number
Maximal OUTWATS (means use maximum band trunk group
is subscribed to)
Basic originating (POTS)
Basic terminating (POTS) including DID
Terminating trunk INWATS (TINWATS)
Megacom(R) 800 originating (M800)
Software Defined Network originating (SDN)
Originating from PRI & Terminating to FX (OFX)
Terminating to PRI & originating from FX (TFX)

Originating from PRI & terminating to TIE (OTIE)
Terminating to PRI & originating from TIE (TTIE)
Hotel/Motel Service (HM)
Selective Class of Call Screening Service (SCOCS)
MEGACOM(R) originating (MEGACOM)
International 800 service (I800)
MultiQuest(R) (DIAL-IT NOVA) service (MULTIQUEST)

OUTWATS, Maximal OUTWATS, SDN, M800, OFX, OTIE, POTS, HM, SCOCS, and MEGACOM(R) are the originating services supported, TINWATS, TFX, TTIE, SDN, M800, I800, MULTIQUEST(R) and POTS are the terminating services. Note for M800 and SDN both originating and terminating services are available.

Note that POTS is the NSF default and is indicated by the absence of an NSF on a call.

OUTWATS has a WATS band number associated with it. OUTWATS, Maximal OUTWATS, SDN, M800, and originating POTS may or may not have an associated interexchange carrier. Because the number of combinations of service types, bands, and carriers is very large and the number of combinations provided by a given office is very small, this relation provides for associating an RC/ODA assigned index (relatively small number) with each combination provided. Note that two carriers each providing OUTWATS service for the same WATS band would require two tuples.

The NSF service type,fac_num, band number, carrier ID, bearer capability and selective class of call screening id are used as keys to this relation. The specification of this data (for a trunk group) results in the generation of an eprtidx2 index used as one of two keys for RLedslgprt. An eprtidx2 index may be used by more than one trunk group."

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**Attribute:**
band
**Fullname:**
OUTWATS band number
**Attribute Description:**
OUTWATS band number.

**Attribute:**
carrid
**Fullname:**
carrier id
**Attribute Description:**
Interexchange carrier ID.

Allowable Range: 0-FGDMAXBCAR
A NULL carrier is defined as NULL_BCARID.
A non-existing or invalid carrier is defined
as INVBCARID.

Dependencies: A tuple must exist in RLfc_carr
such that RLfc_carr.carrid = RLnsfmap.carrid
for all valid carrid values except NULL_BCARID.

**Attribute:**
nsftype
**Fullname:**
call by call service type
**Attribute Description:**
EDSL call by call service types.
Valid types:
FC_OPOTS - originating POTS
FC_OWBAND - OUTWATS with band
FC_MAXOWATS - maximal OUTWATS
FC_TPOTS - terminating POTS
FC_M800 - originating and terminating Megacom(R) 800
FC_SDN - originating and terminating SDN
FC_OFX - originating from PRI & terminating to FX
FC_TFX - originating from FX and terminating to PRI.
FC_OTIE - originating from PRI & terminating to Tie.
FC_TTIE - originating from Tie & terminating to PRI.
FC_HM - originating Hotel/Motel Service
FC_SCOCS - originating Selective Class of Call Screening.
FC_MEGACOM - originating MEGACOM(R) service
FC_I800 - terminating International 800 service
FC_MULTIQUEST - terminating MultiQuest(R) (DIAL-IT NOVA)
service
(Note: Terminating trunk INWATS (TINWATS) is also
a call by call service type but is not assigned here.
MCRI/SFGs are assigned in RLrt_mctr).

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The following check is only described here but is actually placed in RLrcnsfmap poprules to avoid redundancy.
For FC_OPOTS, band must = 0 (interpreted as null band for this nsftype).

For FC_OWBAND, band must = valid OUTWATS band (0-255).

For FC_MAXOWATS, band must = 0 (interpreted as null band for this nsftype).

For FC_TPOTS, band must = 0 (interpreted as null band for this nsftype), carrid must = null carrier.

For FC_M800, band must = 0 (interpreted as null band for this nsftype).

For FC_SDN, band must = 0 (interpreted as null band for this nsftype).

For FC_OFX,FC_TFX,FC_OTIE,FC_TTIE, band must = 0 (interpreted as null band for this nsftype).

For FC_MEGACOM, band must = 0 (interpreted as null band for this nsftype).

For FC_I800, band must = 0 (interpreted as null band for this nsftype).

For FC_MULTIQUEST, band must = 0 (interpreted as null band for this nsftype).

**Attribute:**
fac_num
**Fullname:**
Facility Number.
**Attribute Description:**
This attribute is used to indicate the facility number of the originating from/terminating to FX or Tie trunk.

**Attribute:**
bearcap
**Fullname:**
Bearer Capability
**Attribute Description:**
Type of Bearer Capability associated with the call-by-call service type.

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**Attribute:**
scocsid
**Fullname:**
Selected Class of Call Screening Service Id.
**Attribute Description:**
The service id associated with the SCOCS service type.

**Attribute:**
eprtidx2
**Fullname:**
pre-routing index
**Attribute Description:**
EDSL pre-routing index for call by call service type.

Note: The value for eprtidx2 is generated by RC/ODA for each unique combination of nsftype, band, and carrid. Administration of assigned/ unassigned values is controlled via the RLfacids relation. RLfacids.class for eprtidx2 is FACEDSL. See RLfacids population rules.
Also see RLrcnsfmap population rules.

**Defines:**
"db/DMcarr_val.h"

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# NTSTYPE

## 1. Description

This relation will contain the Time Slot number (as the key), a network type for the input of the QLPS Network number, and the type of equipment associated with the Time Slot.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| expected tuples in relation | 32 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | PCntstrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
NTSTYPE     relid = 2089  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     tsnum       DMUSHORT     (ushort)     <--- key
 (a) netwk       DMQLNTWK     (enum: 2)
 (b) type        DMNTSTYPE    (enum: 2)
         User, Compacted and Stored Tuple Layout    NTSTYPE
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |   |   |                       |
  0 |             tsnum             | a | b |***********************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLntstype

**Relation Description**
Network Time Slot Type

This relation will hold the type of Logical Link associated with the Time Slot (key).

**Attribute: tsnum**

**Fullname:** Time Slot Number

**Attribute Description** The number of the Single Timeslot (key). The tsnum number is derived from the Relative Hunt Group, the TMS timeslot number and the last bit of the tmslnk (even or odd tmslnk).

```
-------------------------------------------------
|0|0| Relative Hunt Group | TMS Link TS |tmslnk{0}|
-------------------------------------------------
 1 1 1                   0 0           0         0
 5 4 3                   9 8           1         0
```

**Attribute: netwk**

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**Fullname:** QLPS Network Number

**Attribute Description** QLPS Network Number. Only associated with the type value of PCQMHPIPE.

**Attribute: type**

**Fullname:** Type of Logical Link associated with the Time Slot.

**Attribute Description** This is the type of Logical Link associated with the Time Slot

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# NW_RTIDX

## 1. Description

This relation will only be used for CCS calls whose chosen route does not meet per call restrictions identified in the CCS IAM message. Given the current route index, and the type(s) of restrictions, a new route index will be returned as an attribute. The new route index will be used to pick the trunk group to route the CCS call. In an office that does not have CCS, this relation is not populated.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 60000 |
| expected number of tuples | 10 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFR |
| application | GCRTG |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
NW_RTIDX    relid = 665   DBSTATIC   DBACC_CIND  DBPRAM    LPFR    GCRTG
     restrix     DMRESTRIX    (enum: 4)     <--- key, not stored
     route_x     DMRTEIDX     (ushort: 14)     <--- key, not stored
     newrtx_x    DMRTEIDX     (ushort: 14)
         User and Compacted Tuple Layout   NW_RTIDX
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |       |                       |                           |   |
  0 |restrix|***********************|          route_x          |***|
    |---------------+---------------+---------------+---------------|
    |                           |                                   |
  4 |          newrtx_x         |***********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     newrtx_x    DMRTEIDX     (ushort: 14)
           Stored Tuple Layout     NW_RTIDX
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           |                                   |
  0 |          newrtx_x         |***********************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLnw_rtidx

**Relation Description**
New routing index relation

This relation will only be used for CCS calls whose chosen route does not meet per call restrictions identified in the CCS IAM message. Given the current route index, and the type(s) of restrictions, a new route index will be returned as an attribute. The new route index will be used to pick the trunk group to route the CCS call. The rta subsystem is the main user of this relation.

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In general, there may be multiple occurrences of the same route index value (route_x) with different restrictions: thus giving a different new route index value (newrtx_x).

***NOTE:*** The following are guidelines pertaining to data rates, DAS, and a new route index. These cannot be enforced by recent change or ODA checks. For all route indexes derived by a DAS of 97 or 98, a tuple must exist in this relation without signaling type set to ISUP. For all route indexes derived by a DAS of 81, a tuple must exist in this relation with satellite set to yes. Note that additional restrictions (that is, satellite) may also exist on each of these types of route indexes.

Engineers Note:
Common Channel Signaling per call restrictions are contained in the Initial Address Message (IAM). The IAM contains both the dialed digits, and any per call routing restriction(s) known as Traveling Class Marks (TCMs).

If the original route index selected is incompatible with the routing restriction(s) associated with the particular call, the routing state will be set to RTCCS_REST. During this state, the relation RLnw_rtidx will be read. This relation produces a route index which is then used to translate to a trunk group number, which will be a key into the RLrt_trkg relation. By this means, a new route index (newrtx_x) will be computed, designed to meet the per call restriction(s).

The restrix attribute in RLnw_rtidx is really the anding of three individual attributes, those corresponding to out_signaling type, satellite, and digital path. The new route index must meet any and all per call restriction(s) contained in the IAM.

The values of NS (null signaling type) for signaling type: SN (satellite no) for the satellite indicator: and PN (digital path no) are the default values. They should be treated as don't care fields. If office engineering personnel are only concerned with the call routing over ISUP signaling (for example), the only field to be examined in the RLrt_trkg relation would be out_sigtype, which would have to be set to DBISUP7. If office engineering personnel are only concerned that a call not have a satellite connection, AND that a digital path be required, the only fields that need be examined in RLrt_trkg are satellite (which m

ust be set to DBNO), and digital path (which must be set to DBYES).

Listed here are some examples of how RLnw_rtidx would be used. (This is not an all inclusive list).

(1) The per call restriction as given in the IAM indicates that the call requires a digital path. This means that IAM.USI was coded 56KPS, 64KPS Res, or 64KPS. The original route index is 5, which points to trunk group 10. A read of RLrt_trkg, with trunk group 10 as the key, has digital path set to DBNO, which is incompatible with the TCM restriction.

So, RLnw_rtidx is read using route_x=5 restrix=NSSNPY, producing a route index of 15, which gives trunk group number 20. A read of RLrt_trkg, with trunk group 20 as the key, has digital path set to DBYES. Thus the route meets the per call restriction. The value of restrix for digital path (that is, PY for digital required, PN for no digital path required), must be PY. The other two possible restrictions (signaling type and satellite) are don't care's.

(2) The per call restrictions as given in the IAM indicate that the call requires both no more satellite connections, and a digital path. This means that IAM.USI was coded 56KPS, 64KPS Res, or 64KPS and Nat_of_conn.sat_ind was > 0 indicating that at least one satellite connection was already in the call path. The original route index is 25, which points to trunk group 30. A read of RLrt_trkg, with trunk group 30 as the key has either satellite set to DBYES, or digital path set to DBNO (or both). This is incompatible with the TCM restrictions.

So, RLnw_rtidx is read with route_x=25 restrix=NSSYPY, producing a route index of 35, which gives trunk group 40. A read of RLrt_trkg, with trunk group 35 as the key, has BOTH satellite set to DBNO AND digital path set to DBYES. Thus the route meets the per call restrictions. The value of restrix for satellite (that is, SY

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for satellite yes, SN for satellite no) must be SY, and the restrix value for digital path must be PY. The signaling type is treated as a don't care field.

(3) The per call restrictions as given in the IAM indicate that the call requires an ISUP7 connection, no more satellite connections, and a digital path. This means that IAM.USI was coded 56KPS, 64KPS Res, or 64KPS and Nat_of_conn.sat_ind was > 0 indicating that at least one satellite connection was already in the call path; also the IAM.FCI.ISUPpref was set to 'ISUP7 required'. The original route index is 45, which points to trunk group 50. A read of RLrt_trkg, with trunk group 50 as the key, has out_signaling type set to DBMF, and/or satellite set to DBYES, and/or digital path set

to DBNO. This is incompatible with the per call restrictions.

So, RLnw_rtidx is read with route_x=25 restrix=I7SYPY, which produces a new route index of 55, which points to trunk group 60. A read of RLrt_trkg, with trunk group 60 as the key has signaling type set to DBISUP7 AND satellite set to DBNO AND digital path set to DBYES. Thus the route meets the per call restrictions. The value of restrix for signaling type (that is, NS for null signaling type and I7 for ISDN-UP signaling type) must be I7, the restrix value for satellite must be SY, and the restrix value for digital path must be PY.

***NOTE:*** The following attribute section makes it appear that restrix is the primary key for rlNW_RTIDX, and route_x is the secondary key. This is not the case. The keys were listed in this order to satisfy the desires of memory engineering personnel. In reality, route_x can be thought of as the primary key."

**Attribute: restrix**

**Fullname:** CCS routing restrictions

**Attribute Description** This attribute indicates the status of the following Common Channel Signaling routing restrictions:

(1) out signaling type

(2) satellite

(3) dig_path.

(1) There are two possible variations for out_sigtype, which indicates the signaling type that the call should use, and hence the trunk group signaling type (out_sigtype in the RLrt_trkg relation):

NS, which indicates null signaling type (no specific signaling type is required).

I7, which indicates ISUP7 (Integrated Services Digital Network(R) User Part, or ISDN-UP 7) signaling type.

(2) There are two possible variations for satellite, which indicates whether or not the call has been routed via satellite:

SN, which is analogous to satellite equals DBNO, meaning that the call has not been routed via satellite: and thus, there will be no satellite restrictions on the returned newrtx_x attribute. The default value will be SN (DBNO).

SY, which is analogous to satellite equals DBYES, meaning that the call has been routed via satellite, and must not use another satellite route. In this case, the returned newrtx_x attribute must point to satellite = DBNO in the RLrt_trkg relation.

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***NOTE:*** When SY is set in restrix, either the call has been routed via satellite OR the call is an incoming international call.

(3) There are two possible variations for dig_path, which indicates whether or not a digital path is required for the call.

PN, which is analogous to dig_path equals DBNO, meaning that a digital path is not required. Thus, there will be no digital restriction on the returned newrtx_x attribute. The default value will be PN (DBNO).

PY, which is analogous to dig_path equals DBYES, meaning that a digital path is required to complete the call. In this case, the returned newrtx_x attribute must point to dig_trunk = DBYES in the RLrt_trkg relation.

**Attribute: route_x**

**Fullname:** Existing route index chosen

**Attribute Description** This attribute represents the existing route index chosen based on the screening, prefix, and destination indexes. The chosen index is restricted to only those indexes derived from incoming CCS trunks. There are no particular constraints on the route index.

**Attribute: newrtx_x**

**Fullname:** New route index

**Attribute Description** This attribute indicates the new route populated to meet the previously mentioned criteria restrictions (sigtype, satellite, and dig_path).

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# NXXRANGE

## 1. Description

This file contains a structure for the NPA Expansion Feature. The structure rlNXXRANGE is a structure for the relation RLnxxrange to be used when accessing npa data with nxx ranges. This structure will be used beginning in 5e14.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_DHSH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |
| spare | 3s |

## 3. Field Layout

```
NXXRANGE    relid = 3148  DBSTATIC   DBACC_DHSH  DBPRAM    FG      NULL


     npa         DMEXPNPA     (ushort: 10)      <--- key
     tupnum      DMUSHORT     (ushort)  <--- key
     routecode   DMEXPRTCDE   (ushort: 10)
     entries     DMUSHORT     (ushort)
     begnxx0     DMUSHORT     (ushort)
     begnxx1     DMUSHORT     (ushort)
     begnxx2     DMUSHORT     (ushort)
     endnxx0     DMUSHORT     (ushort)
     endnxx1     DMUSHORT     (ushort)
     endnxx2     DMUSHORT     (ushort)
         User, Compacted and Stored Tuple Layout   NXXRANGE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                     |           |                               |
  0 |         npa         |***********|              tupnum            |
    |---------------+---------------+---------------+---------------|
    |                     |           |                               |
  4 |     routecode       |***********|             entries           |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  8 |             begnxx0             |             begnxx1           |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
 12 |             begnxx2             |             endnxx0           |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
 16 |             endnxx1             |             endnxx2           |
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

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```
domain alNXXRANGE struct  (6 sub-attributes)
         npa         .2.fake      (ushort: 10)
         tupnum      unsigned short (ushort)
         routecode   .3.fake      (ushort: 10)
         entries     unsigned short (ushort)
         begnxx      .4.fake      (array [ 3 ] of unsigned short )
         endnxx      .5.fake      (array [ 3 ] of unsigned short )
                     Structure Layout    alNXXRANGE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |           |                               |
  0 |        npa        |***********|             tupnum            |
    |---------------+---------------+---------------+---------------|
    |                   |           |                               |
  4 |     routecode     |***********|            entries            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             begnxx                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 12 |             begnxx            |             endnxx            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                             endnxx                            |
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population rules for RLnxxrange

### Relation Description

RLnxxrange is allocated to store NPA NXX data

This relation is used by views 27.12R and 27.12V to store the NPA NXX data for the OSPS NPA Code Expansion for BLV (98-5E-4281) feature beginning in 5e14_1b.

Examples:

1) If NPA (312), ROUTECODE (15) and both BEGNXX and ENDNXX are null as input, the data will be stored as shown in the following column (1). A range of 0 to 1000 will be stored to represent the entire NPA.

2) If NPA (312), ROUTECODE (15), BEGNXX (979) and ENDNXX is null are input, the data will be stored as shown in the following column (2).

3) If NPA (312), ROUTECODE (15), BEGNXX (979) and ENDNXX (989) are input, the data will be stored as shown in the following column 3.

4) If there are multiple entries input for an NPA, the

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data will be sorted and stored as shown in the following columns (4), (5), and (6). There is room in each data structure for 3 ranges. Each tuple will be numbered from 0 up to the maximum number of relations needed -1 in increments of 1. Unused data ranges will be blank. All of the NXX range pairs must be non-overlapping, unique ranges for each NPA. As additional entries are input, the pair will be inserted/deleted in order. If 7 NXX ranges are input, 3 tuples will be used. Tuple number 0 data is seen in column (4). Tuple number 1 is seen in column (5) and tuple number 2 in column (6).

| | (1) | (2) | (3) | (4) | (5) | (6) |
|---|---|---|---|---|---|---|
| NPA | 312 | 312 | 312 | 312 | 312 | 312 |
| TUPNUM | 0 | 0 | 0 | 0 | 1 | 2 |
| ROUTECODE | 15 | 15 | 15 | 15 | 15 | 15 |
| BEGNXX[0] | 0 | 979 | 979 | 010 | 401 | 800 |
| BEGNXX[1] | 0 | 0 | 0 | 200 | 585 | 0 |
| BEGNXX[2] | 0 | 0 | 0 | 350 | 600 | 0 |
| ENDNXX[0] | 1000 | 979 | 989 | 099 | 499 | 899 |
| ENDNXX[1] | 0 | 0 | 0 | 300 | 585 | 0 |
| ENDNXX[2] | 0 | 0 | 0 | 350 | 699 | 0 |
| ENTRIES | 1 | 1 | 1 | 7 | 7 | 7 |

**Attribute:**
npa
**Fullname:**
first key
**Attribute Description:**
Used to store the numbering plan area (NPA) or the local routing number (LRN). The range is 200-999.

**Attribute:**
tupnum
**Fullname:**
second key
**Attribute Description:**
Used to store TUPNUM which is a sequential number of tuples associated with each unique NPA.

**Attribute:**
routecode
**Fullname:**
route code
**Attribute Description:**
Used for the ROUTECODE which is associated with each verifiable NPA. The range is 000-999. The ROUTECODE must be

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unique for each NPA and cannot be shared with another NPA.

**Attribute:**
begnxx[*]
**Fullname:**
begin nxx in the range
**Attribute Description:**
Field used to store the beginning NXX values in a range of NXX that is specified. The value of NXX is 000-999. If NXX is not specified, then it will be stored as 0 in the data.

**Attribute:**
endnxx[*]
**Fullname:**
ending nxx in the range
**Attribute Description:**
Field used to store the ending NXX values in a range of NXX that is specified. The value of endnxx0 is 000-1000. The value of endnxx1 and endnxx2 is 000-999. If END NXX is not specified then it will either equal 1000 in the data if the entire NPA is included or it will equal BEGNXX for a single NXX range.

**Attribute:**
entries
**Fullname:**
number of entries
**Attribute Description:**
Used to store the total number of ranges specified for this NPA.

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## 2.15 RELATIONS: O

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# OAEXMAP

## 1. Description

Contains exception area map for multiple LATA OSPS.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 250 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head page size | 1024 |
| data page size | 256 |
| page level | 2 |

## 3. Field Layout

```
OAEXMAP     relid = 928   DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     oeai        DMEAIDX      (uchar: 8)  <--- key
     teai        DMEAIDX      (uchar: 8)  <--- key
         User and Compacted Tuple Layout    OAEXMAP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |      oeai     |      teai     |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
     oeai        DMEAIDX      (uchar: 8)  <--- key
     teai        DMEAIDX      (uchar: 8)  <--- key
           Stored Tuple Layout      OAEXMAP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |      oeai     |      teai     |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLoaexmap

**Relation Description**
This relation defines the exception areas for OSPS offices.

The existence of a tuple in this relation defines an exception area call. Define exception areas for office codes (or groups of office codes) which are considered as either privileged or compete areas. An exception area may represent a single NPA-NXX or a group of NPA-NXX which is contained in a single LATA. All office codes represented by the exception area index will receive the same exception area treatment by the OSPS.

(1) Each exception area should eventually be populated in at least one tuple of RLoaexmap. However there is no dependency required to enforce this.

(2) An exception area may be defined as a one way or two way calling area. A one way would require a single entry with the eai being defined as either the originating or terminating area. A two way area would be defined

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by having two entries, the second with the indexes reversed.

(3) The originating and terminating exception area may not be in the same LATA.

(4) The originating and terminating eai may not be the same in a single tuple entry.

(5) An office code is not allowed to be defined in more than one exception area and is enforced by the RLfcnpamap poprules.

(6) Deletion of the last tuple using a given exception area index (oeai or teai) in this relation is not allowed unless the RLfcnpamap tuple which defines this exception area index is removed.

**Attribute: oeai**

**Fullname:** Originating exception area index

**Attribute Description** Originating exception area index of the originating NPA-NXX as obtained from RLfcnpamap.

**Attribute: teai**

**Fullname:** Terminating exception area index

**Attribute Description** Terminating exception area index obtained from RLfcnpamap based on terminating NPA-NXX.

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# OAODISP

## 1. Description

OSPS display index to character display mapping.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 276 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
OAODISP     relid = 632   DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     dispx       DMDISPX      (ushort: 9)  <--- key, not stored
     display     DMDISPLAY    (array [ 10 ] of char )
     dnstart     DMDIGCNT     (uchar: 4)
     dnlen       DMDIGCNT     (uchar: 4)
         User and Compacted Tuple Layout    OAODISP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                 |                                             |
  0 |      dispx      |*********************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            display                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                            display                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |       |       |               |
 12 |            display            |dnstart| dnlen |***************|
    |---------------+---------------+---------------+---------------|
      ( 16 bytes )
     display     DMDISPLAY    (array [ 10 ] of char )
     dnstart     DMDIGCNT     (uchar: 4)
     dnlen       DMDIGCNT     (uchar: 4)
           Stored Tuple Layout      OAODISP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                            display                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                            display                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |       |       |               |
  8 |            display            |dnstart| dnlen |***************|
    |---------------+---------------+---------------+---------------|
```

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```
( 12 bytes )
```

## 4. Population Rules for RLoaodisp

**Relation Description**
OSPS display index to character display mapping.

This relation is not to be populated for international applications. Populate only in offices intended to serve OSPS.

**Attribute: dispx**

**Fullname:** Display index

**Attribute Description** Identifies the display index for the given call factors.

**Attribute: display**

**Fullname:** Display

**Attribute Description** Displayed upon position seizure. Filled with up to SZDISPLAY characters 'A'-'Z', 'a'-'z', '0'-'9', '-','/', and ' '(blank). This field is left justified. The intercept feature is intended to replace the existing automatic intercept system (AIS). AIS has the capability to display at the intercept operator position, a 'class' indicator which could map into the various type/class of intercept calls. For OSPS intercept, the customer could define the display to the 'intercept' operator via this attribute to accomplish the same functionality. The following strings are appropriate with respect to the different intercept classes:

```
INTERCEPT CLASS        'AIS EQUIVALENT DISPLAY'
---------------  --------------------------------
ANIBLNK, ONIBLNK  'VACANT', 'BLANK' or 'UNASSIGNED'
ANITRBL, ONITRBL  'TROUBLE'
ANIREG, ONIREG    'CHANGED'
ANIFAIL, CONC     'UNKNOWN'
```

**Attribute: dnstart**

**Fullname:** Display number star

**Attribute Description** Display for calling/called number.

**Attribute: dnlen**

**Fullname:** Display number length

**Attribute Description** Calling/called number display length.

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# OCNTWK

## 1. Description

This static relation contains npa, ttc, and operator special dialed code combinations that are within the LEC intracompany network.

The non-key attribute for the valid carrier is included as part of the tuple.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8192 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 1024 |
| data page size | 256 |

## 3. Field Layout

```
OCNTWK      relid = 349   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     oacarr      DMBCARID     (ushort: 14)
     oaosdc      DMUNL12      (ulong: 12)     <--- key
     oanpa       DMUNL10      (ulong: 10)     <--- key
     oattc       DMUNL7       (ulong: 7)     <--- key
         User, Compacted and Stored Tuple Layout OCNTWK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                       |           |
  0 |            oacarr             |         oaosdc        |***********|
    |---------------+---------------+---------------+---------------|
    |                     |             |                             |
  4 |       oanpa         |    oattc    |*****************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLocntwk

**Relation Description**
Static relation containing the carrier to use to route to the NPA, TTC, and operator special dialed code combination as part of a LEC intracompany network.

The non-key attribute for the valid carrier is included as part of the tuple.

**Attribute: oanpa**

**Fullname:** oa npa

**Attribute Description** The operator entered NPA.

**Attribute: oattc**

**Fullname:** oa TTC

**Attribute Description** The operator entered term toll center (TTC) code.

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**Attribute: oaosdc**

**Fullname:** OA OSDC

**Attribute Description** Operator special dialed codes for the NPA, NXX combinations.

Range from 0000-2100 internally. Using ODA and RC the range should be 000-999, 1100-1199 11000-11999 on the input forms.

OSDC dialing can be of the form:

```
1. XXX
2. 11XX
3. 11XXX    X = [0-9].
```

Therefore, there are 2100 possible OSDCs, and the mapping of all possible OSDCs into 0000-2100 range can be accomplished as followed:

```
if 000 =< dial.osdc =< 999
        then oaosdc = dial.osdc
if 1100 =< dial.osdc =< 1199
        then oaosdc = 1000 + ( dial.osdc - 1100 )
if 11000 =< dial.osdc =< 11999
        then oaosdc = 1100 + ( dial.osdc - 11000 )
```

Application programs must translate this attribute back to its normal form before attempting to make any meaning out of it, as followed.

```
if 000 =< oaosdc =< 999
        then read.osdc = oaosdc
if 1000 =< oaosdc =< 1099
        then read.osdc = oaosdc - 1000 + 1100
if 1100 =< ososdc < 2100
        then read.osdc = oaosdc -1100 + 11000
```

The mapping is as follows:

```
RLocntwk    OSDC (As on input forms)
oaosdc
--------   -------------------------
000-999     000-999
1000-1099   1100 - 1199
1100-2099   11000 - 11999
```

**Attribute: oacarr**

**Fullname:** oa carrier

**Attribute Description** Carrier for the call.

**Defines:** "db/DMcarr_val.h"

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# ODPSOP

## 1. Description

User data for the on demand packet (ODP) feature. In the 5E5 generic, this offering will be limited to on demand packet B (ODB) and will be provided by the enhanced B packet switching (EBPS) capability.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8191 |
| expected number of tuples | 4 |
| density | 5 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | RTrcodpsop |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
ODPSOP      relid = 1228  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     port         DMPORT       (ushort)     <--- key
     t3xx         DMUCHAR      (uchar)
     band         DMUCHAR      (uchar)
     lapbt1       DMLAPBT1     (uchar: 8)
     ph_number    DMPHNBR      (uchar: 7)
 (a) use_t320     DMBOOL       (enum: 1)
     ph_cn        DMPHCN       (uchar: 7)
 (b) intercept    DMBOOL       (enum: 1)
     ph_cn2       DMPHCN       (uchar: 7)
 (c) orig         DMBOOL       (enum: 1)
     l2prof       DMDSLPROF    (enum: 6)
 (d) b_num        DMUNS2       (ushort: 2)
     lapbt3       DMLAPBT3     (uchar: 5)
     dslrate      DMDSLRATE    (enum: 5)
     lapbk        DMLAPBK      (uchar: 3)
     lapbn2       DMLAPBN2     (uchar: 4)
     party        DMPARTY      (ushort: 4)     <--- key
         User, Compacted and Stored Tuple Layout ODPSOP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |              port             |      t3xx     |      band     |
    |---------------+---------------+---------------+---------------|
    |               |             | |             | |             | |
  4 |     lapbt1    |  ph_number  |a|    ph_cn    |b|    ph_cn2   |c|
    |---------------+---------------+---------------+---------------|
    |           |   |         |     |         |     |       |       |
  8 |   l2prof  | d |  lapbt3 |*****| dslrate |lapbk| lapbn2| party |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

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## 4. Population Rules for RLodpsop

**Relation Description**
User data for EBPS feature.

This relation maps a User ID number to the PH, PH - channel and band. It also includes level 2 and level 3 parameters used when setting up the ODB call. For each user, a tuple resides only on the SM where the BRI is located. RLodpsop is a fixed partitioned (FP) relation.

A User can subscribe to either zero, one, or two On-Demand B-Channels. If a User does not subscribes to any On-Demand B-Channels, then a tuple of RLodpsop does not exist. If a User subscribes to either one or two On-Demand B-Channels, then the information on the On-Demand B-Channel(s) is stored in one tuple of RLodpsop.

As of 5E9, all lines with X.25 Packet Switching features are no longer being supported on the PH2 Access Image. X.25 Packet Switching is only being supported on PH3's. In 5e10, X.25 Packet Switching is supported on both PH3's and PH4's.

**Attribute: port**

**Fullname:** D port name

**Attribute Description** The port defines the PH port of the D-Channel of the DSL

**Attribute: party**

**Fullname:** ODB User

**Attribute Description** Identifies ODB User on the DSL

**Attribute: t3xx**

**Fullname:** Network initiated clearing timer

**Attribute Description** Time to wait (in minutes) after last X.25 call terminates before tearing down the nailed-up connection. A value of zero means that the timer is not to be used, that is, the call is not to be torn down.

If the On-Demand B-Channel has conditional notification, then the timer T320 should be used instead of timer T3XX.

If the ODB channel has conditional notification, then the value for t3xx must be 0 minutes.

**Attribute: band**

**Fullname:** Performance class

**Attribute Description** For service provider to engineer Users among PH's.

**Attribute: ph_number**

**Fullname:** PH number.

**Attribute Description** Logical PH number of the given ODB user.

As of 5E9, all lines with X.25 Packet Switching features are no longer being supported on the PH2 Access Image. X.25 Packet Switching is only being supported on PH3's. In 5e10, X.25 Packet Switching is supported on both PH3's and PH4's.

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**Attribute: b_num**

**Fullname:** Number of On-Demand B-Channels

**Attribute Description** This attribute specifies the number of On-Demand B-Channels subscribed. The values for this attribute are 1 or 2.

The number of On-Demand B-Channels must equal the odb_bchan attribute in RLlpt_pt. If two On-Demand B-Channels are subscribed to, then the channels must have a Common DN.

**Attribute: ph_cn**

**Fullname:** PH channel number.

**Attribute Description** When the DSL Group (PH128) is assigned to On Demand B-Channel Packet Switching, then only ph channel (member) numbers that are multiples of 4. (such as member 0,4,8,12,...124) shall be allowed assignment in the DSL Group.

**Attribute: ph_cn2**

**Fullname:** Second PH Channel Number

**Attribute Description** PH Channel Number of the second ODB.

When the DSL Group (PH128) is assigned to On Demand B-Channel Packet Switching, then only ph channel (member) numbers that are multiples of 4 (such as member 0,4,8,12,...124) shall be allowed assignment in the DSL Group.

If only one On-Demand B-Channel is assigned, then the value for this attribute is 0.

**Attribute: lapbt1**

**Fullname:** T1 timer

**Attribute Description** Timeout value for frame retransmissions. This value is given tenths of a second, such as a value of 36 means 3.6 (three and six tenths) seconds. Range is 20 to 200 (2 to 20 seconds) in increments of 2 (0.2 seconds) that is [20, 22, 24,26...200].

**Attribute: lapbt3**

**Fullname:** T3 Timer

**Attribute Description** Timeout value for idle channel state. This value is given in seconds. Range is 3 to 30.

**Attribute: lapbn2**

**Fullname:** Frame transmission counter

**Attribute Description** The value of N2 shall indicate the maximum number of attempts made by the data computer equipment (DCE) or data terminal equipment (DTE) to complete the successful transmission of a frame to the DTE or DCE respectively.

**Attribute: lapbk**

**Fullname:** Layer 2 window size

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**Attribute Description** Maximum number of outstanding I (information) frames. I frames carry actual user data, as opposed to S (supervisory) frames, which are for layer 2 control only. The value of K shall indicate the maximum number of sequentially numbered I frames that the DTE or DCE may have outstanding (that is, unacknowledged) at any given time. The value of K shall never exceed seven.

**Attribute: dslrate**

**Fullname:** Data rate for B1 or B2-channel

**Attribute Description** Select speed to be used on b-channel nailed up to PH and PH channel for ODB user.

**Attribute: orig**

**Fullname:** ODB origination allowed

**Attribute Description** To allow ODB service to selected customers.

**Attribute: l2prof**

**Fullname:** Level 2 profile

**Attribute Description** Select level 2 protocol for ODB user.

**Attribute: intercept**

**Fullname:** DN placed on intercept

**Attribute Description** Indicates that the DN associated with this user has been placed on intercept.

**Attribute: use_t320**

**Fullname:** Use T320 Timer

**Attribute Description** This attribute specifies whether timer T320 or T3XX is to be used. The Timer T3XX is used if the ODB channel does not have Conditional Notification and Timer T320 is used if the ODB Channel does have Conditional Notification.

**Defines:** "db/DMparty.h"

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# OEIN_G

## 1. Description

Storage relation for RC_OEINFO to store large attributes.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65535 |
| expected tuples | 1000 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTORAGE |
| head table size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| index length | 0 |
| i2 index into intermediate page | 0 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel reverse index | rlOEIN_I |

## 3. Field Layout

```
OEIN_G      relid = 1695  DBSTORAGE  DBACC_GK    DBPRAM    LP      RCMAP
     gkOEIN_G    DMGK16       (ulong: 16)  <--- key, not stored
     mkbusy      DMPORT       (ushort)
     rmkbusy     DMPORT       (ushort)
     sphtkey     DMPORT       (ushort)
     portgrp     DMGRUPNM     (ushort: 11)
     att_grp     DMGRUPNM     (ushort: 11)
     nohuntcnt   DMUNS5       (ushort: 5)
     lsf_cnt     DMUNS9       (ushort: 9)
     acof_cnt    DMUNS6       (ushort: 6)
 (a) rbv         DMBOOL       (enum: 1)
     mkbsymod    DMMODULE     (ushort: 8)
     rmkbsymod   DMMODULE     (ushort: 8)
     sphkymod    DMMODULE     (ushort: 8)
         User and Compacted Tuple Layout     OEIN_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |*******************************|            gkOEIN_G           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             mkbusy            |            rmkbusy            |
    |---------------+---------------+---------------+---------------|
    |                               |                       |       |
  8 |            sphtkey            |       portgrp         |*******|
    |---------------+---------------+---------------+---------------|
    |                       |       |                   |           | |
 12 |       att_grp         |nohuntcnt|     lsf_cnt     |  acof_cnt |a|
    |---------------+---------------+---------------+---------------|
```

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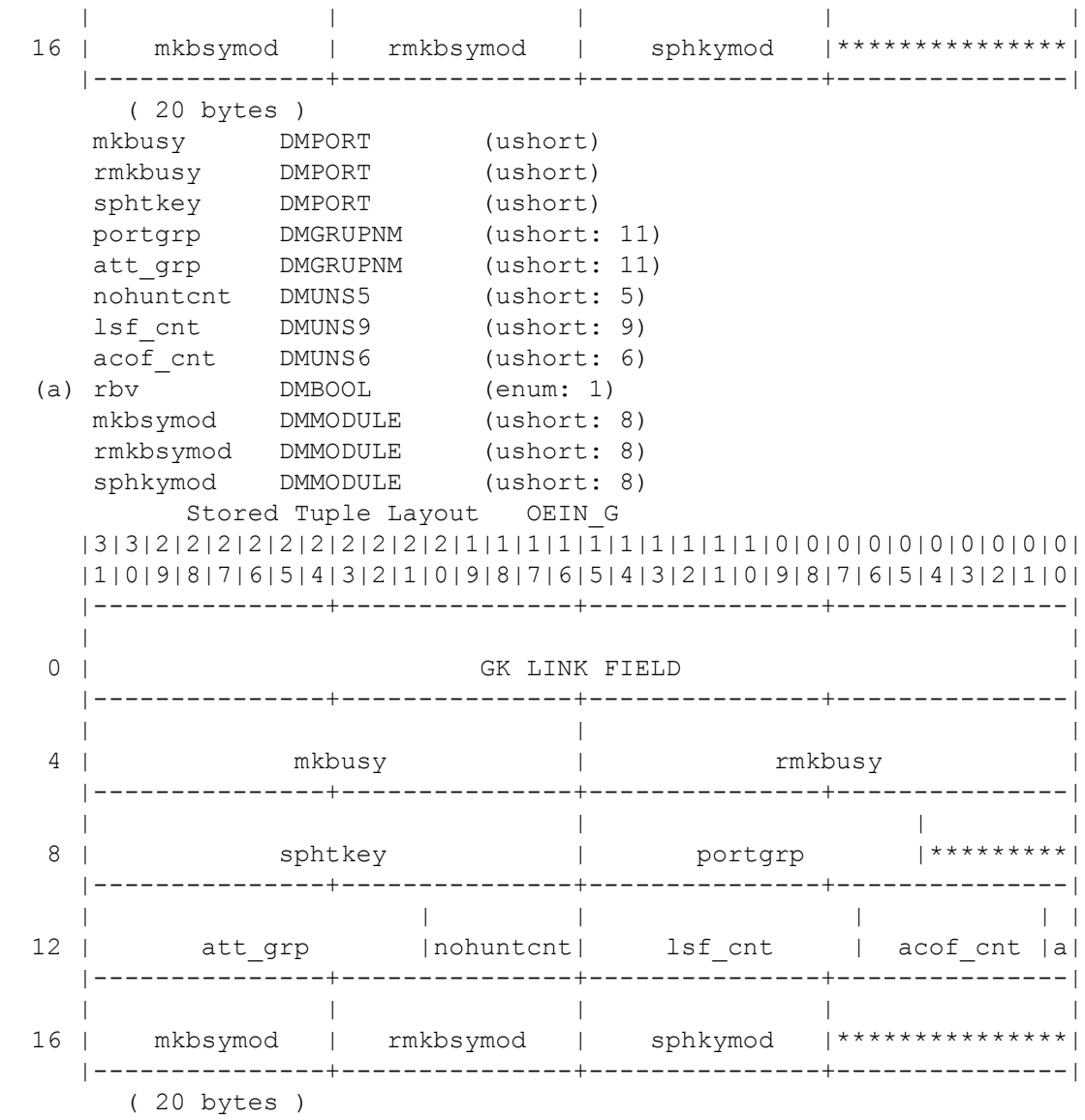


## 4. Population Rules for RLoein_g

There are no population rules for this relation.

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# OEINF_R

## 1. Description

This is the root storage relation for RC_OEINFO.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 670000 |
| expected number of tuples | 19000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTORAGE |
| density | 65 |

## 3. Field Layout

```
OEINF_R     relid = 1697  DBSTORAGE  DBACC_DHSH  DBPRAM    LP      RCMAP


     port        DMPORT       (ushort)  <--- key
     attlist     DMGK16       (ulong: 16)
     remarks     DMGK16       (ulong: 16)
     lccrax      DMGK14       (ulong: 14)
 (a) esl         DMBOOL       (enum: 1)
     member      DMMEM        (ushort: 12)
     party       DMPARTY      (ushort: 4)       <--- key
     portmod     DMMODULE     (ushort: 8)       <--- key
         User, Compacted and Stored Tuple Layout    OEINF_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |              port               |            attlist            |
    |---------------+---------------+---------------+---------------|
    |                                 |                           | | |
  4 |            remarks              |           lccrax          |a|*|
    |---------------+---------------+---------------+---------------|
    |                       |       |               |               |
  8 |         member        | party |    portmod    |***************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population rules for RLoeinf_r

### Relation Description

There are no population rules for this relation.

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# OFF_PAR

## 1. Description

This relation contains the Standardization Sector (SS7) (formerly CCITT7) (national and international versions) office parameters that are needed in the PH and are recent changeable. This relation is needed as it is not possible to have trigger functions for office parameters.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 1 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCoff_par |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
OFF_PAR     relid = 2377  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
 (a) index       DMUNS1       (ushort: 1) <--- key
 (b) olo_gw      DMBOOL       (enum: 1)
 (c) stpinh_nod  DMBOOL       (enum: 1)
 (d) stpinh_og   DMBOOL       (enum: 1)
 (e) stpinh_ic   DMBOOL       (enum: 1)
 (f) mgtinh_nod  DMBOOL       (enum: 1)
 (g) mgtinh_og   DMBOOL       (enum: 1)
 (h) mgtinh_ic   DMBOOL       (enum: 1)
 (i) upinh_nod   DMBOOL       (enum: 1)
 (j) upinh_og    DMBOOL       (enum: 1)
 (k) upinh_ic    DMBOOL       (enum: 1)
 (l) stpalt_rte  DMBOOL       (enum: 1)
     olomask     DMUNS4       (ushort: 4)
     olo1_pc     DMDPCARRAY   (ulong)
     olo2_pc     DMDPCARRAY   (ulong)
     olo3_pc     DMDPCARRAY   (ulong)
     olo4_pc     DMDPCARRAY   (ulong)
 (m) pol_allow   DMBOOL       (enum: 1)
 (n) pol_active  DMBOOL       (enum: 1)
     pol_thrshld  DMUNS8       (ushort: 8)
 (o) actilsdpol  DMBOOL       (enum: 1)
 (p) defilsdpol  DMBOOL       (enum: 1)
     thrilsdpol  DMUNS8       (ushort: 8)
 (q) falselnkcong  DMCONGLVL    (enum: 2)
 (r) imprvd_slt  DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout    OFF_PAR
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | |       |                               |
 0 |a|b|c|d|e|f|g|h|i|j|k|l|olomask|*******************************|
```

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```
    |--------------+--------------+--------------+--------------|
    |                                                           |
  4 |                          olo1_pc                          |
    |--------------+--------------+--------------+--------------|
    |                                                           |
  8 |                          olo2_pc                          |
    |--------------+--------------+--------------+--------------|
    |                                                           |
 12 |                          olo3_pc                          |
    |--------------+--------------+--------------+--------------|
    |                                                           |
 16 |                          olo4_pc                          |
    |--------------+--------------+--------------+--------------|
    | | |               | | |       |               |   | |         |
 20 |m|n|  pol_thrshld  |o|p|*******|   thrilsdpol  | q |r|*********|
    |--------------+--------------+--------------+--------------|
       ( 24 bytes )

domain alOFF_PAR  struct  (22 sub-attributes)
 (a)     index       .4.fake      (ushort: 1)
 (b)     olo_gw      .0fake       (enum)
 (c)     stpinh_nod  .0fake       (enum)
 (d)     stpinh_og   .0fake       (enum)
 (e)     stpinh_ic   .0fake       (enum)
 (f)     mgtinh_nod  .0fake       (enum)
 (g)     mgtinh_og   .0fake       (enum)
 (h)     mgtinh_ic   .0fake       (enum)
 (i)     upinh_nod   .0fake       (enum)
 (j)     upinh_og    .0fake       (enum)
 (k)     upinh_ic    .0fake       (enum)
 (l)     stpalt_rte  .0fake       (enum)
         olomask     .5.fake      (ushort: 4)
         olo_pcs     .6.fake      (array [ 4 ] of unsigned long )
 (m)     pol_allow   .0fake       (enum)
 (n)     pol_active  .0fake       (enum)
         pol_thrshld  .7.fake      (ushort)
 (o)     actilsdpol  .0fake       (enum)
 (p)     defilsdpol  .0fake       (enum)
         thrilsdpol  .8.fake      (ushort)
 (q)     falselnkcong  .1fake     (enum)
 (r)     imprvd_slt  .0fake       (enum)

                    Structure Layout     alOFF_PAR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    | | | | | | | | | | | |       |                             |
  0 |a|b|c|d|e|f|g|h|i|j|k|l|olomask|*****************************|
    |--------------+--------------+--------------+--------------|
    |                                                           |
  4 |                          olo_pcs                          |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                           |
  8 |                          olo_pcs                          |
```

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```
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                       |
 12 |                           olo_pcs                                     |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                       |
 16 |                           olo_pcs                                     |
    |---------------+---------------+---------------+---------------|
    | | |               | | |       |               |   | |         |
 20 |m|n|  pol_thrshld  |o|p|*******|   thrilsdpol  | q |r|*********|
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population rules for RLoff_par

### Relation Description

Office parameters.
This relation contains the National and International Standardization Sector (SS7) (formerly CCITT7) office parameters that are needed in the PH.

**Attribute:**
index
**Fullname:**
Index.
**Attribute Description:**
Index to the relation.

**Attribute:**
olo_gw
**Fullname:**
Other licensed operator.
**Attribute Description:**
DBYES if the office is a gateway to an Other Licensed Operator (OLO).

**Attribute:**
stpinh_nod
**Fullname:**
STP inhibited nodally.
**Attribute Description:**
DBYES if reporting for STP policed MSUs is inhibited nodally in the office.

**Attribute:**
stpinh_og
**Fullname:**
STP inhibited - outgoing.
**Attribute Description:**
DBYES if reporting for the outgoing STP policed MSUs is inhibited

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in the office.

**Attribute:**
stpinh_ic
**Fullname:**
STP inhibited - incoming.
**Attribute Description:**
DBYES if reporting for incoming STP policed MSUs is inhibited in the office.

**Attribute:**
mgtinh_nod
**Fullname:**
Management inhibited nodally.
**Attribute Description:**
DBYES if reporting for management policed MSUs is inhibited nodally in the office.

**Attribute:**
mgtinh_og
**Fullname:**
Management inhibited - outgoing.
**Attribute Description:**
DBYES if reporting for outgoing management policed MSUs is inhibited in the office.

**Attribute:**
mgtinh_ic
**Fullname:**
Management inhibited - incoming.
**Attribute Description:**
DBYES if reporting for incoming management policed MSUs is inhibited in the office.

**Attribute:**
upinh_nod
**Fullname:**
UP inhibited nodally.
**Attribute Description:**
DBYES if reporting for MTP User Part (UP) policed MSUs is inhibited nodally in the office.

**Attribute:**
upinh_og
**Fullname:**
UP inhibited - outgoing.
**Attribute Description:**

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DBYES if reporting for outgoing MTP UP policed MSUs is inhibited in the office.

**Attribute:**
upinh_ic
**Fullname:**
UP inhibited - incoming.
**Attribute Description:**
DBYES if reporting for incoming MTP UP policed MSUs is inhibited in the office.

**Attribute:**
stpalt_rte
**Fullname:**
STP alternate route.
**Attribute Description:**
The stpalt_rte flag is used to implement the Circular Routing algorithm or the RED BOOK version of Signaling Route Management. CCS subsystem makes run time decisions that determine which of the above implementations will be executed. If Glcountry is UK, protocol is C7NATL and stpalt_rte is DBYES, algorithm for Circular Route Control works. If Glcountry is not UK and not NATL, and if stpalt_rte is DBYES then RED BOOK code gets active. If stpalt_rte is DBNO then the version before CRC or RED BOOK is active.

**Attribute:**
olomask
**Fullname:**
Other licensed operator mask.
**Attribute Description:**
The office which is being engineered may be identified by the OLO networks as having different point codes. This means that an office can have multiple point codes depending on the number of OLO's which signal to it. There must be a point code to each OLO that signals to the office.

**Attribute:**
olo1_pc
**Fullname:**
Other licensed operator 1 point code.
**Attribute Description:**
Contains the point code assigned by OLO one.

**Attribute:**
olo2_pc
**Fullname:**
Other licensed operator 2 point code.

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**Attribute Description:**
Contains the point code assigned by OLO two.

**Attribute:**
olo3_pc
**Fullname:**
Other licensed operator 3 point code.
**Attribute Description:**
Contains the point code assigned by OLO three.

**Attribute:**
olo4_pc
**Fullname:**
Other licensed operator 4 point code
**Attribute Description:**
Contains the point code assigned by OLO four.

**Attribute:**
pol_allow
**Fullname:**
STP OPC Policing MSU default treatment.
**Attribute Description:**
Indicates the default MSU treatment is to allow/prohibit the STP function for the OPC/DPC pair

**Attribute:**
pol_active
**Fullname:**
STP OPC Policing feature active.
**Attribute Description:**
Indicates that the STP OPC Policing feature is active or in-active.

**Attribute:**
pol_thrshld
**Fullname:**
The threshold value for discarded STP MSU.
**Attribute Description:**
The threshold value for discarded STP MSU. When the number of MSUs discarded exceeds this value an output report will be generated.

**Attribute:**
actilsdpol
**Fullname:**
ILS/DPC Policing Active
**Attribute Description:**

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This attribute will be used to indicate whether the ILS/DPC Policing feature is active or in-active on this GSM.

**Attribute:**
thrilsdpol
**Fullname:**
ILS/DPC Policing Threshold
**Attribute Description:**
This attribute will contain the threshold value for the discarded STP MSUs. When the number of MSUs discarded exceeds this value an output report will be generated.

**Attribute:**
defilsdpol
**Fullname:**
ILS/DPC Policing Default
**Attribute Description:**
This attribute will be used to indicate the default MSU treatment which will allow or prohibit the STP function for the ILS/DPC Pair.

**Attribute:**
falselnkcong
**Fullname:**
false link congestion
**Attribute Description:**
This attribute represents whether the customer has turned on monitoring of links in link congestion level 1 or level 2 for false link congestion. The default value is monitoring congestion level 2.

**Attribute:**
imprvd_slt
**Fullname:**
improved signaling link test
**Attribute Description:**
This attribute indicates whether improved signaling link test procedures have been selected for use on the global switching module for the SS7 PSU platform. If improved signaling link test procedures are to be used, imprvd_slt has a value of "DBYES".

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# OFFICECODE

## 1. Description

NOC to digits.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8191 |
| expected number of tuples | 250 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFR |
| relation type | DBSTATIC |
| ks keystore | AUTO |

## 3. Field Layout

```
OFFICECODE  relid = 42    DBSTATIC   DBACC_CIND  DBPRAM    LRFR    NULL
     noc          DMNOC         (ushort: 14)     <--- key, not stored
     ffcf1        DMUNL8        (ulong: 8)
     npa          DMNPA         (array [ 3 ] of char )     <--- compacted
     nxx          DMNXX         (array [ 3 ] of char )     <--- compacted
            User Tuple Layout    OFFICECODE
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             noc               |*******************************|
    |---------------+---------------+---------------+---------------|
    |                 |                                             |
  4 |     ffcf1       |                       npa                   |
    |---------------+---------------+---------------+---------------|
    |                                                 |               |
  8 |                       nxx                       |***************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
     noc          DMNOC         (ushort: 14)     <--- key, not stored
     ffcf1        DMUNL8        (ulong: 8)
     npa          DMUNL10       (ulong: 10)     <--- compacted
     nxx          DMUNL10       (ulong: 10)     <--- compacted
          Compacted Tuple Layout     OFFICECODE
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             noc               |*******************************|
    |---------------+---------------+---------------+---------------|
    |                 |                   |                   |       |
  4 |     ffcf1       |        npa        |        nxx        |*******|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |***************************************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

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```
     ffcf1       DMUNL8       (ulong: 8)
     npa         DMUNL10      (ulong: 10)     <--- compacted
     nxx         DMUNL10      (ulong: 10)     <--- compacted
           Stored Tuple Layout   OFFICECODE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                   |                   |       |
  0 |     ffcf1     |        npa        |        nxx        |*******|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLofficecode

**Relation Description**
NOC to digits

**Attribute: noc**

**Fullname:** normalized office code

**Attribute Description** Normalized office code.

**Attribute: npa**

**Fullname:** area code

**Attribute Description** area code

**Attribute: nxx**

**Fullname:** office code

**Attribute Description** Traditionally, office codes are of the form NXX. For 5E3, the 0XX and 1XX Routing feature allows office codes of 0XX and 1XX, provided for special uses to preserve standard office code ranges. These are typically used for INWATS lines. Since 0XX and 1XX are being excluded from the LDIT, these lines can only be terminated to from an incoming trunk. This is a 1AESS Transparency feature.

Packet Switching TNs are of the form NXXXXXX. Office codes of the form 0XX and 1XX are not valid for packet TNs.

**Attribute: ffcf1**

**Fullname:** spare

**Attribute Description** spare attribute for future use

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# OLNP_HEAD

## 1. Description

This relation, keyed by the NPA, contains query information about an NPA subgroup, which is defined as the group of 100 consecutive NXX's or (0/1)XX of a given NPA/RAO. An NPA/RAO consists of the following subgroups: RAO-0XX, RAO-1XX, NPA-2XX, NPA-3XX, NPA-4XX, NPA-5XX, NPA-6XX, NPA-7XX, NPA-8XX, NPA-9XX.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 800 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |
| permutation type | un_perm |

## 3. Field Layout

```
OLNP_HEAD   relid = 2600  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     npa          DMUNS10       (ushort: 10)     <--- key
  (a) q2bit0      DMUNS2        (ushort: 2)
  (b) q2bit1      DMUNS2        (ushort: 2)
  (c) q2bit2      DMUNS2        (ushort: 2)
  (d) q2bit3      DMUNS2        (ushort: 2)
  (e) q2bit4      DMUNS2        (ushort: 2)
  (f) q2bit5      DMUNS2        (ushort: 2)
  (g) q2bit6      DMUNS2        (ushort: 2)
  (h) q2bit7      DMUNS2        (ushort: 2)
  (i) q2bit8      DMUNS2        (ushort: 2)
  (j) q2bit9      DMUNS2        (ushort: 2)
         User, Compacted and Stored Tuple Layout  OLNP_HEAD
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |   |   |   |   |   |   |   |   |   |   |   |
  0 |        npa        | a | b | c | d | e | f | g | h | i | j |***|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLolnp_head

**Relation Description**
OLNP Header.

This relation contains query information about the ten NPA subgroups within an NPA. An NPA subgroup is defined as the group of 100 consecutive NXX's or (0/1)XX's of a given NPA/RAO. An NPA/RAO consists of the following subgroups: RAO-0XX, RAO-1XX, NPA-2XX, NPA-3XX, NPA-4XX, NPA-5XX, NPA-6XX, NPA-7XX, NPA-8XX, NPA-9XX. These are designated NPA subgroups NPA0, NPA1, NPA2, NPA3, NPA4, NPA5, NPA6, NPA7, NPA8, NPA9, respectively. There are ten 2-bit long attributes, called q2bit0 through q2bit9, containing query information for NPA subgroups NPA0 through NPA9, respectively.

The q2bit provides the following query information for the corresponding NPA subgroup:

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| q2bit | Is number potentially ported? |
|---|---|
| 00 | No |
| 01 | Yes |
| 10 | See RLolnp_nxx |
| 11 | Disallowed |

**Attribute: npa**

**Fullname:** Numbering Plan Area

**Attribute Description** Populated only with NPA's in service.

**Attribute: q2bit[*]**

**Fullname:** Query 2-bit

**Attribute Description** Gives some query destination information for an NPA subgroup within an NPA.

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# OLNP_NXX

## 1. Description

This relation contains information as to where the query should be sent to for each NXX / (0/1)XX of a given NPA subgroup.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1920 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 2048 |
| data page size | 256 |
| page level | 2 |
| permutation type | un_perm |

## 3. Field Layout

```
OLNP_NXX    relid = 2601  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     npa_grp     DMNPA_GRP    (ushort: 14) <--- key
     q8bit0      DMUCHAR      (uchar)
     q8bit1      DMUCHAR      (uchar)
     q8bit2      DMUCHAR      (uchar)
     q8bit3      DMUCHAR      (uchar)
     q8bit4      DMUCHAR      (uchar)
     q8bit5      DMUCHAR      (uchar)
     q8bit6      DMUCHAR      (uchar)
     q8bit7      DMUCHAR      (uchar)
     q8bit8      DMUCHAR      (uchar)
     q8bit9      DMUCHAR      (uchar)
     q8bit10     DMUCHAR      (uchar)
     q8bit11     DMUCHAR      (uchar)
     q4bit       DMUNS4       (ushort: 4)
         User, Compacted and Stored Tuple Layout   OLNP_NXX
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           |   |               |               |
  0 |          npa_grp          |***|     q8bit0    |     q8bit1    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |     q8bit2    |     q8bit3    |     q8bit4    |     q8bit5    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  8 |     q8bit6    |     q8bit7    |     q8bit8    |     q8bit9    |
    |---------------+---------------+---------------+---------------|
    |               |               |       |                       |
 12 |    q8bit10    |    q8bit11    | q4bit |***********************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )

domain alOLNP_NXX struct  (3 sub-attributes)
         npa_grp     .2.fake      (ushort: 14)
         q8bit       .3.fake      (array [ 12 ] of unsigned char )
```

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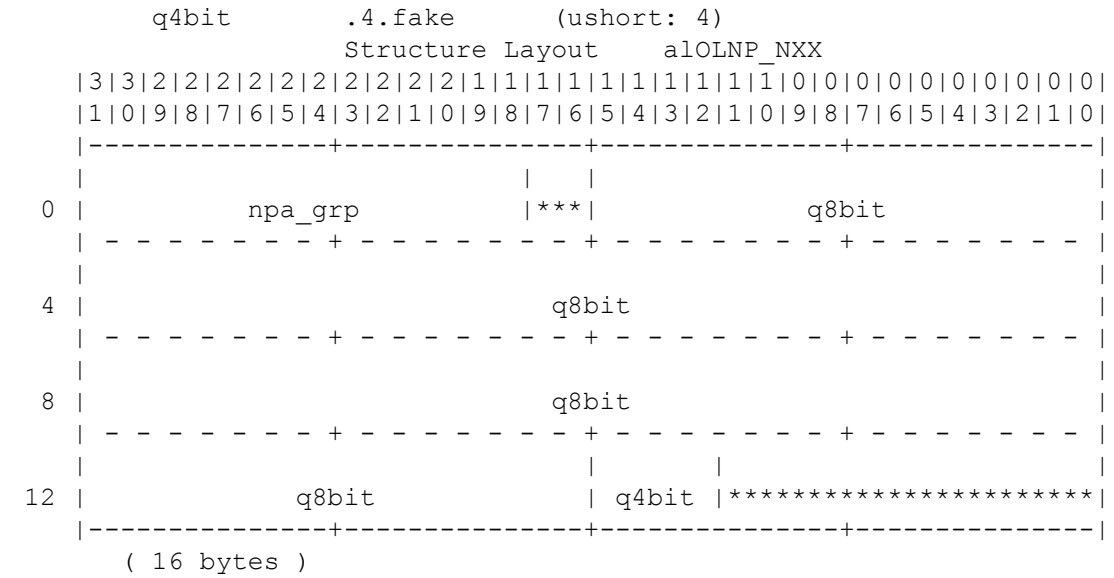


## 4. Population rules for RLolnp_nxx

### Relation Description

OLNP-NXX

This relation contains query information about a given NPA subgroup within an NPA. An NPA subgroup is defined as the group of 100 consecutive NXX's or (0/1)XX of a given NPA/RAO. An NPA/RAO consists of the following subgroups: RAO-0XX, RAO-1XX, NPA-2XX, NPA-3XX, NPA-4XX, NPA-5XX, NPA-6XX, NPA-7XX, NPA-8XX, NPA-9XX. These are designated NPA subgroups NPA0, NPA1, NPA2, NPA3, NPA4, NPA5, NPA6, NPA7, NPA8, NPA9, respectively.
The member of an NPA subgroup is generally denoted as NPA-YXX, with 'Y' constrained to a decimal digit. There are 12 attributes of 8 bits each plus an attribute of 4 bit long, comprising 100 bits of data. Each bit corresponds to each of the 100 YXX's of the NPA subgroup. The YXX is arranged in ascending order in increments of one starting with the lowest bit of q8bit0 to the highest bit of q8bit11 through the highest order bit of q4bit. A '1' and '0' indicates the NXX is open to portability or not open portability, respectively.
See Main Description
end relation;

**Attribute:**

npa_grp

**Fullname:**

NPA Group

**Attribute Description:**

Populated only when the 100 bits are not identical

**Attribute:**

q8bit[*]

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**Fullname:**
Query 8bit 0 through 11
**Attribute Description:**
'0' and '1' indicate the NXX is not open to portability or open to portability, respectively.

**Attribute:**
q4bit
**Fullname:**
Query 4bit
**Attribute Description:**
'0' and '1' indicates the NXX is not open to portability or open to portability, respectively.

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# OLNSDEF

## 1. Description

This relation is used for Originating Line Number Screening (OLNS) feature. This relation will have a distribution of Fixed Group (FG), with grp_type of GPD_OSPS, and a grp_id of 4.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| expected number of tuples | 101 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
OLNSDEF     relid = 2813  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL


    anii_dig    DMUNS10      (ushort: 10)      <--- key
    trtmt_ind   DMUNS6       (ushort: 6)
    srv_eqp_ind  DMUNS7       (ushort: 7)
(a) org_ccrd_ind  DMUNS4       (ushort: 4)
(b) org_tnbill_ind  DMUNS3       (ushort: 3)
(c) org_cbill_ind  DMUNS2       (ushort: 2)
(d) org_spaid_ind  DMUNS3       (ushort: 3)
(e) org_dacc_ind  DMUNS3       (ushort: 3)
(f) add_3num_bind  DMUNS3       (ushort: 3)
(g) org_lc_ntl_ind  DMUNS2       (ushort: 2)
(h) org_fda_ind  DMUNS2       (ushort: 2)
(i) org_sp_bns_ind  DMUNS2       (ushort: 2)
(j) add_org_cc_ind  DMUNS2       (ushort: 2)
(k) add_org_bnsind  DMUNS2       (ushort: 2)
(l) add_org_spind  DMUNS2       (ushort: 2)
        User, Compacted and Stored Tuple Layout    OLNSDEF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                   |           |             |       |     |   |
 0 |      anii_dig     | trtmt_ind | srv_eqp_ind |   a   |  b  | c |
   |---------------+---------------+---------------+---------------|
   |     |     |     |   |   |   | |   |   |   |                   |
 4 |  d  |  e  |  f  | g | h | i |*| j | k | l |*******************|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population rules for RLolnsdef

**Relation Description**

```
        Originating Line Number Screening defaults table.
```

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This relation contains information related to OSPS Originating Line Number Screening(OLNS) feature.

**Attribute:**
anii_dig
**Fullname:**
ANI II Digit.
**Attribute Description:**
This relation is keyed by ANI II Digit, this attribute can have valid values between 0 - 99 or 1023 for default.

**Attribute:**
trtmt_ind
**Fullname:**
Treatment Indicator.
**Attribute Description:**
Treatment indicator

**Attribute:**
srv_eqp_ind
**Fullname:**
Service or Equipment Indicator.
**Attribute Description:**
Service or Equipment Indicator value.

**Attribute:**
org_cbill_ind
**Fullname:**
Originating collect billing indicator
**Attribute Description:**
Originating collect billing indicator

**Attribute:**
org_tnbill_ind
**Fullname:**
Originating third number billing Indicator.
**Attribute Description:**
Originating third number billing Indicator.

**Attribute:**
org_lc_ntl_ind
**Fullname:**
Originating local, non-toll call indicator
**Attribute Description:**
Originating local, non-toll call indicator

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**Attribute:**
org_ccrd_ind
**Fullname:**
Originating credit card indicator.
**Attribute Description:**
Originating credit card indicator.

**Attribute:**
org_fda_ind
**Fullname:**
Originating free DA indicator.
**Attribute Description:**
Indicates whether originating free DA is allowed from this line.

**Attribute:**
org_sp_bns_ind
**Fullname:**
Originating special BNS indicator.
**Attribute Description:**
Indicates whether originating special BNS is allowed from this line.

**Attribute:**
org_spaid_ind
**Fullname:**
Originating sent-paid indicator.
**Attribute Description:**
Indicates whether originating sent-paid is allowed from this line.

**Attribute:**
org_dacc_ind
**Fullname:**
Originating DACC indicator.
**Attribute Description:**
Indicates if originating dacc should be allowed from this line.

**Attribute:**
add_3num_bind
**Fullname:**
Additional originating third number billing indicator.
**Attribute Description:**
Indicates whether additional third number billing should be allowed from this line.

**Attribute:**

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add_org_cc_ind

**Fullname:**

Additional originating credit card indicator.

**Attribute Description:**

Indicates whether additional originating credit card should be allowed from this line.

**Attribute:**

add_org_bnsind

**Fullname:**

Additional originating special BNS indicator.

**Attribute Description:**

Indicates whether additional originating special BNS should be allowed from this line.

**Attribute:**

add_org_spind

**Fullname:**

Additional originating sent-paid indicator.

**Attribute Description:**

Indicates whether additional originating sent-paid should be allowed from this line.

**Defines:**

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# OLOGINID

## 1. Description

Contains the login ids and serving team assignments for all operators.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 17324 |
| expected tuples in relation | 810 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | ACDQ |
| relation type | DBSTATIC |
| foldtype | DBGC31 |
| density | 84 |
| trigger function | ACtlogin |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
OLOGINID    relid = 639   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    ACDQ
     op_id       DMOPID       (array [ 4 ] of char )  <--- key
     pswd        DMPSWDID     (array [ 6 ] of char )
     dasc_opid   DMDASCOPID   (ushort)
     intopid     DMINTOP      (ushort: 14)
 (a) extdl_per   DMOAEDI      (enum: 2)
     serv_tm     DMUNS8       (ushort: 8)
 (b) ospsff      DMUNS3       (ushort: 3)
 (c) hand_off    DMBOOL       (enum: 1)
 (d) transfer    DMBOOL       (enum: 1)
 (e) con_tran_idv  DMBOOL       (enum: 1)
 (f) mon_perm    DMBOOL       (enum: 1)
 (g) login_optype  DMOPRTYP     (enum: 1)
        User, Compacted and Stored Tuple Layout   OLOGINID
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                            op_id                              |
   |---------------+---------------+---------------+---------------|
   |                                                               |
 4 |                             pswd                              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
 8 |              pswd             |           dasc_opid           |
   |---------------+---------------+---------------+---------------|
   |                           |   |               |     | | | | | |
12 |          intopid          | a |    serv_tm    |  b  |c|d|e|f|g|
   |---------------+---------------+---------------+---------------|
      ( 16 bytes )
```

## 4. Population Rules for RLologinid

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**Relation Description**
OSPS operator external login id relation.

This relation contains the external login ids and serving teams for OSPS operators, including commercial automatic call distributor (C-ACD) agents.

This relation is not to be populated for export applications. This relation is not to be populated for offices having no PSMs.

**Attribute: op_id**

**Fullname:** relative external operator identifier

**Attribute Description** This is the operator ID. The op_id must be left justified. Note that ONLY the OTRs (operator trouble reports) generated by operators with a op_id that consist of only numeric characters '0'-'9' are considered for reporting to an external OTR analysis system. Note that login 0001 is different than login 1. The ids from 9000 to 9999 are NOT ALLOWED. op_id can be from 1-4 alphanumeric characters.

**Attribute: dasc_opid**

**Fullname:** Directory Assistance System Computer (DAS/C) Operator Identifier

**Attribute Description** If login_optype = OSPSTA, then switch personnel should not be allowed to update this attribute. In this case, this dasc_opid attribute should have a value of 0.

If login_optype = OSPSDA, then the DAS/C Operator ID is a number, represented as 4 BCD digits packed into a short, whose range is 1-9999. It can take on any value in the previous range but must be different for every tuple. Each set of 4 bits must represent a number in the range 0-9.

**Attribute: intopid**

**Fullname:** Internal Operator Identifier

**Attribute Description** Internal operator id. This is a integer between 1-16383. It must have a different value for every tuple. It must always be between 1 and the current value of the global parameter Glintopcnt.

ODA RULES:
For a new office, intopid must be assigned sequentially starting with 1, and Glintopcnt must be equal to the number of tuples in this relation.
For existing offices being populated via off-line ODA process, intopid must be preserved for Retrofit, and Glintopcnt must be equal to the sum of the tuples in this relation and relation RLintopid.
For example (new offices), if 3 tuples have been inserted, the first tuple would have intopid = 1, the second would have intopid = 2, and the third would have intopid = 3. Glintopcnt would be 3.
For existing offices, intopid is preserved for Retrofit, and Glintopcnt must be equal to the number of tuples in this relation and relation RLintopid.

**Attribute: serv_tm**

**Fullname:** Serving Team number

**Attribute Description** Serving team number this operator id is assigned to. There must be a tuple in RLstinfo which is keyed by this serv_tm, and that RLstinfo tuple must have the attribute st_optype with the same value as this tuple's login_optype attribute.

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**Attribute: extdl_per**

**Fullname:** External Dialing Permissions

**Attribute Description** The rules and restrictions for this attribute (extdl_per), which are listed in the following paragraphs, apply only if login_optype = OSPSDA, or if login_optype = OSPSTA and the operator is on a Listing Services type call. If login_optype = OSPSTA and the operator is on any other T&A type call (0-, 0+, coin, etc.), the operator will be unrestricted, independent of how this attribute is set.

**Attribute: hand_off**

**Fullname:** Handoff allowed flag

**Attribute Description** DBYES if the operator is allowed to handoff.
DBNO if the operator is denied handoff.

**Attribute: transfer**

**Fullname:** Transfer allowed flag

**Attribute Description** DBYES if the operator is allowed to transfer to call queue.
DBNO if the operator is denied transfer to call queue.

**Attribute: con_tran_idv**

**Fullname:** Conference or transfer to individual operator allowed flag

**Attribute Description** DBYES if the operator is allowed to conference with or transfer to an individual operator or position.
DBNO if the operator is denied ability to conference with or transfer to an individual operator or position.

**Attribute: pswd**

**Fullname:** Operator's password

**Attribute Description**

The password used for monitoring, which is a string of SZPSWDID characters composed only of alphanumeric characters 'A'-'Z', 'a'-'z' and '0'-'9'. Note that the password must be exactly SZPSWDID (6) characters OR the null string.

For Toll and Assistance login ids (login_optype=OSPSTA) the password must contain at least one alphabetic character and one numeric character. In other words, all six characters can not be alphabetic and all six characters can not be numeric. Default: Null string.

**Attribute: mon_perm**

**Fullname:** Operator's monitoring permission flag

**Attribute Description** DBYES if the operator is allowed to monitor.
DBNO if the operator is not allowed to monitor.

**Attribute: login_optype**

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**Fullname:** Type of operator for this login identifier

**Attribute Description** Type of operator login. login_optype for this operator must be the same optype as the attribute st_optype in the tuple keyed by the value of attribute serv_tm in relation RLstinfo. Only DA operators may be assigned to DA serving teams and TA operators assigned to TA serving teams. Either OSPSDA or OSPSTA.

RESTRICTIONS/DEPENDENCIES:

The login_optype attribute may not be updated by RC/V - it may only be specified during an insertion.

**Attribute: ospsff**

**Fullname:** OSPS fast feature item

**Attribute Description** The item is to be used for future OSPS fast feature development.

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# OLOID

## 1. Description

This relation takes the OLO index and returns the appropriate name for that OLO.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 5 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
OLOID       relid = 2378  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     oloid       DMOLOID      (ushort: 3)     <--- key
     oloname     DMOLONAME    (array [ 22 ] of char )
         User, Compacted and Stored Tuple Layout  OLOID
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |     |         |                                               |
  0 |oloid|*********|                    oloname                    |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                            oloname                            |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                            oloname                            |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                            oloname                            |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                            oloname                            |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                 |             |
 20 |                   oloname                       |*************|
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population Rules for RLoloid

**Relation Description**
Other licensed operator index.

This relation takes the 'other licensed operator index' found in RLdpc_info, and returns the corresponding name of the 'other licensed operator'.

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**Attribute: oloid**

**Fullname:** Other licensed operator index.

**Attribute Description** An index found in RLdpc_info that is used as a key into this relation.

**Attribute: oloname**

**Fullname:** Name of other licensed operator.

**Attribute Description** A character array that provides the name of the other licensed operator.

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# OLSR

## 1. Description

This relation contains the table of billing restrictions used by screen code.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| expected number of tuples | 256 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| ks key store | DBNO |

## 3. Field Layout

```
OLSR        relid = 1780  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL


    scrncode    DMSCRCDE     (ushort: 10)      <--- key, not stored
    hdr_id      DMANNC_ID    (ulong: 17)
    acdtrknbr   DMUNS12      (ushort: 12)
(a) ans_treatmnt  DMANS_TREAT  (enum: 3)
    scrct       DMUNS16      (ushort)
    phr_id      DMPHRASE     (ushort)
    destidx     DMDESTIDX    (ushort: 12)
    oaff1       DMUNS4       (ushort: 4)
    restrictions  DMSCRREST    (ushort: 11)
(b) icstreat    DMBOOL       (enum: 1)
(c) icsintl     DMBOOL       (enum: 1)
(d) elig_ext_rtg  DMBOOL       (enum: 1)
(e) blk_tollfree  DMBOOL       (enum: 1)
(f) rateofr_inlg  DMBOOL       (enum: 1)
    num_ext_rtg  DMDN         (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
    oaff2       DMULONG      (ulong)
        User and Compacted Tuple Layout   OLSR
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                   |                                           |
 0 |      scrncode     |*******************************************|
   |---------------+---------------+---------------+---------------|
   |                                 |                       |     |
 4 |              hdr_id             |       acdtrknbr       |  a  |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 8 |             scrct               |             phr_id            |
   |---------------+---------------+---------------+---------------|
   |                       |       |                     | | | | | |
12 |        destidx        | oaff1 |     restrictions    |b|c|d|e|f|
   |===============+========= num_ext_rtg =========+===============|
   |       |       |                                               |
```

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```
16 | digcnt|*******|                        dn                        |
   | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
   |                                                                  |
20 |                               dn                                 |
   | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
   |                                                                  |
24 |                               dn                                 |
   | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
   |                                                                  |
28 |                               dn                                 |
   |===============+================+================+================|
   |                                                                  |
32 |                            oaff2                                 |
   |---------------+----------------+----------------+----------------|
     ( 36 bytes )


    hdr_id      DMANNC_ID    (ulong: 17)
    acdtrknbr   DMUNS12      (ushort: 12)
(a) ans_treatmnt  DMANS_TREAT  (enum: 3)
    scrct       DMUNS16      (ushort)
    phr_id      DMPHRASE     (ushort)
    destidx     DMDESTIDX    (ushort: 12)
    oaff1       DMUNS4       (ushort: 4)
    restrictions  DMSCRREST    (ushort: 11)
(b) icstreat    DMBOOL       (enum: 1)
(c) icsintl     DMBOOL       (enum: 1)
(d) elig_ext_rtg  DMBOOL       (enum: 1)
(e) blk_tollfree  DMBOOL       (enum: 1)
(f) rateofr_inlg  DMBOOL       (enum: 1)
    num_ext_rtg  DMDN         (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
    oaff2       DMULONG      (ulong)
          Stored Tuple Layout     OLSR
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+----------------+----------------+----------------|
   |                                 |                         |     |
 0 |              hdr_id             |       acdtrknbr         |  a  |
   |---------------+----------------+----------------+----------------|
   |                                 |                                  |
 4 |             scrct               |              phr_id              |
   |---------------+----------------+----------------+----------------|
   |                        |        |                      | | | | | |
 8 |        destidx         | oaff1  |     restrictions     |b|c|d|e|f|
   |================+========= num_ext_rtg =========+================|
   |       |        |                                                  |
12 | digcnt|*******|                        dn                        |
   | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
   |                                                                  |
16 |                               dn                                 |
   | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
   |                                                                  |
```

```
 20 |                               dn                                |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                 |
 24 |                               dn                                |
    |===============+===============+===============+===============|
    |                                                                 |
 28 |                            oaff2                                |
    |---------------+---------------+---------------+---------------|
       ( 32 bytes )
```

## 4. Population rules for RLolsr

### Relation Description

Originating Line Screening (OLS) Restrictions Table

Relation is used by Originating Line Screening (OLS) to associate Class-Of-Charge (COC) restrictions with a screen code value.

**Attribute:**
scrncode
**Fullname:**
Screen code
**Attribute Description:**
0 for this key means not screened. 999 is reserved for testing.

**Attribute:**
restrictions
**Fullname:**
restrictions - Consists of 11 bit flags indicating which classes of charge are/are not allowed.
**Attribute Description:**
Consists of 11 bit flags indicating which classes of charge are/are not allowed. The attribute is retrieved as a binary string: abcdefghijk: the flags are:
(a is the high-order bit in the string)

a - whether paid or DDD billing is allowed (DBYES) or not (DBNO).
Default = DBYES.

b - whether collect billing is allowed (DBYES) or not (DBNO).
Default = DBYES.

c - whether autocollect is allowed (DBYES) or not (DBNO).
Default = DBYES.

d - whether back card# billing is allowed (DBYES) or not (DBNO).
Default = DBYES.

e - whether back third# billing is allowed (DBYES) or not (DBNO).
Default = DBYES.

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f - whether forward card# billing is allowed (DBYES) or not (DBNO).
Default = DBYES.

g - whether forward third# billing is allowed (DBYES) or not (DBNO).
Default = DBYES.

h - whether sent paid billing is allowed (DBYES) or not (DBNO)
for DA Call Completion calls. Default = DBYES.

i - whether alternate billing is allowed (DBYES) or not (DBNO)
for DA Call Completion calls. Default = DBYES.

j - whether DA Call Completion is allowed (DBYES) or not (DBNO).
Default = DBYES.

k - not currently used: should be set to DBNO.

**Attribute:**
scrct
**Fullname:**
screen code count
**Attribute Description:**
Number of times a screen code is used in a tuple in RLfcscrlne
or RLfcscrrng.

**Attribute:**
hdr_id
**Fullname:**
announcement header id
**Attribute Description:**
The announcement header ID is used in providing a branding
announcement for 0+ calls for the Customized Market
Announcements feature. The header ID is part of a branding
announcement given the customer to provide information on
automated calls. This header ID identifies the particular
market segment which will receive the customized announcement.
Header IDs 67 through 86 have been set aside for use by
the Customized Market Announcements feature.
Zero is not allowed on the RC/ODA form.
It is equivalent to unknown.

**Attribute:**
phr_id
**Fullname:**
announcement phrase id
**Attribute Description:**
This attribute identifies the phrase id of a
given announcement. The phrase ID is used in providing a branding
announcement for 0+ calls for the Customized Market

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Announcements feature. The phrase ID is part of a branding announcement given the customer to provide information on automated calls. This phrase ID identifies the particular market segment provider which will be presented in the branding announcement to the customer.
Zero is not allowed on the RC/ODA form.
It is equivalent to unknown.

**Attribute:**
acdtrknbr
**Fullname:**
ACD trunk number
**Attribute Description:**
This attribute is used by the SS7 Incoming Signaling to the OSPS from the 4ESS(TM) Switch feature to specify the "pseudo" trunk group number for ACD calls. The range of this field is 1 - 2000, or blank. This trunk group number does not have to be previously defined on view 5.1 (RLrt_trkg).

**Attribute:**
icstreat
**Fullname:**
ICS treatment
**Attribute Description:**
This attribute is used to specify whether or not an originating location (that is, back number) is eligible for ICS treatment.

**Attribute:**
icsintl
**Fullname:**
ICS international
**Attribute Description:**
This attribute is used to specify whether or not calls to international numbers from the associated originating location (that is, back number) is eligible for ICS treatment.

**Attribute:**
num_ext_rtg
**Fullname:**
External Routing Number
**Attribute Description:**
This attribute is used to specify what number the external routing number is.

**Attribute:**
elig_ext_rtg
**Fullname:**
External Routing Eligibility

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**Attribute Description:**
This attribute is used to specify whether or not this call is eligible for external routing.

**Attribute:**
destidx
**Fullname:**
Destination Index
**Attribute Description:**
This attribute is used to specify what the destination index is for the external routing number.

**Attribute:**
ans_treatmnt
**Fullname:**
Answer Treatment
**Attribute Description:**
This attribute is used to specify whether immediate answer or billiable answer should be returned on a SS7 Signaled PBX Access call.

**Attribute:**
blk_tollfree
**Fullname:**
Block Toll Free
**Attribute Description:**
This attribute is used to specify whether the OLS Screen Code is assigned to originating line numbers considered ineligible for CICADA call completion.

**Attribute:**
rateofr_inlg
**Fullname:**
Rate Offer Ineligible
**Attribute Description:**
This attribute is used for the OLS screen code to specify whether or not a rate offer should be made on calls from lines for which that OLS code applies.

**Attribute:**
oaff1
**Fullname:**
Spare Field 1
**Attribute Description:**
Spare field for fast features.

**Attribute:**

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oaff2

**Fullname:**

Spare Field 2

**Attribute Description:**

Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

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# ONRMK_R

## 1. Description

Root storage relation for UN_ONRMK.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTORAGE |
| head table size | 256 |
| data page size | 256 |
| foldtype | DBDEFAULT |
| permutation type | perm |

## 3. Field Layout

```
ONRMK_R     relid = 1698  DBSTORAGE  DBACC_HASH  DBPRAM    LP      RCDATA
     ar_gpid     DMMCC_FID    (ushort)  <--- key
     remarks     DMGK16       (ulong: 16)
     onnet_digs  DMDIGSTRING  (array [ 15 ] of char )  <--- key, compacted
            User Tuple Layout   ONRMK_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            ar_gpid            |            remarks            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           onnet_digs                          |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
  8 |                           onnet_digs                          |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 12 |                           onnet_digs                          |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                   |           |
 16 |                  onnet_digs                       |***********|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
     ar_gpid     DMMCC_FID    (ushort)  <--- key
     remarks     DMGK16       (ulong: 16)
     onnet_digs  DMKDIGSTR    (array [ 8 ] of char )  <--- key, compacted
          Compacted Tuple Layout    ONRMK_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            ar_gpid            |            remarks            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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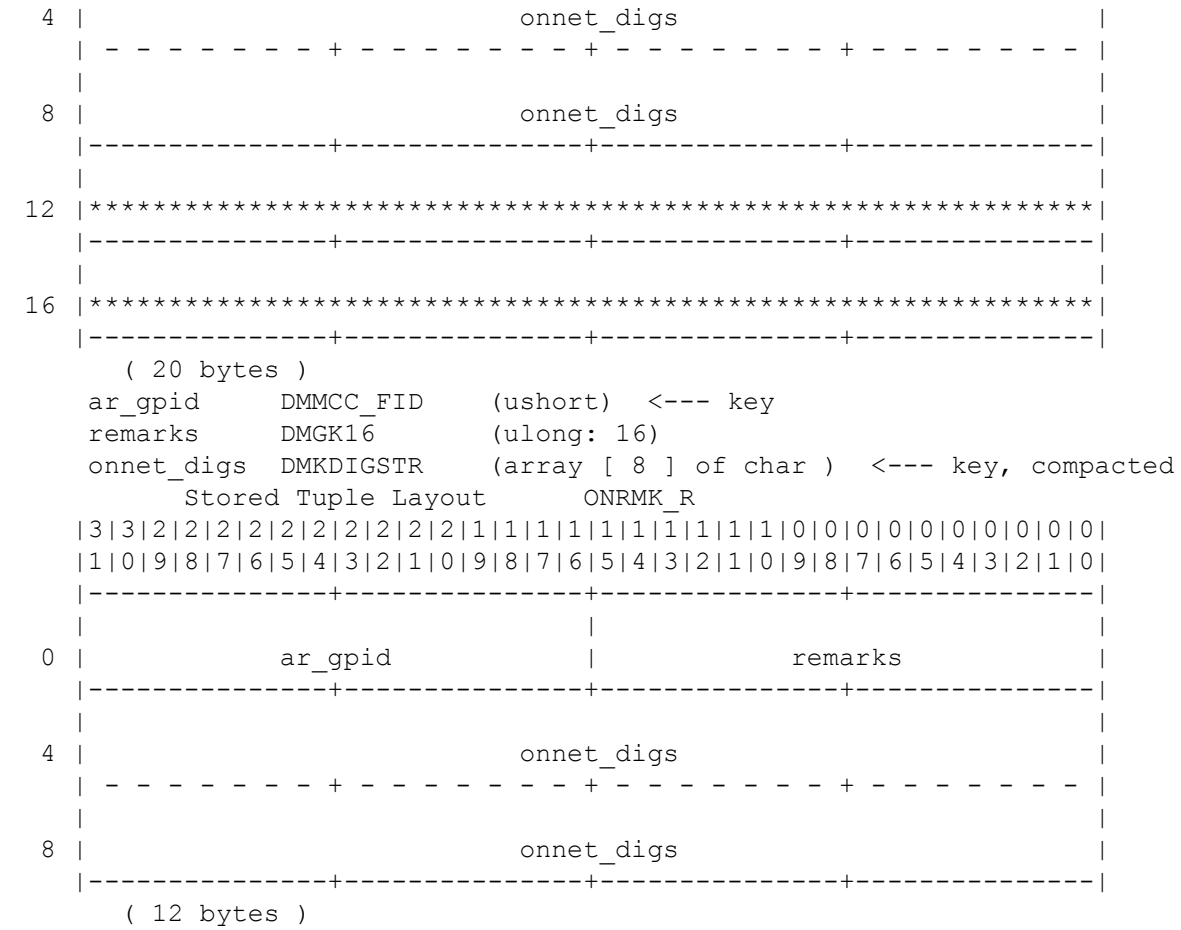


## 4. Population Rules for RLonrmk_r

There are no population rules for this relation.

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# OP_ID

## 1. Description

OSPS call identification table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
OP_ID       relid = 626   DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     dest_x      DMDESTIDX    (ushort: 12)  <--- key
 (a) prefix      DMPREFIX     (enum: 3)  <--- key
     screen_x    DMSCRNIDX    (ushort: 12)  <--- key
     opnoc       DMOPNOC      (ushort: 9)
     ospsff      DMUNS7       (ushort: 7)
     oppcid      DMUNS9       (ushort: 9)
         User, Compacted and Stored Tuple Layout  OP_ID
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                         |     | |                         |       |
  0 |          dest_x         |  a  |*|         screen_x        |*******|
    |---------------+---------------+---------------+---------------|
    |                 |             |                 |             |
  4 |      opnoc      |    ospsff   |      oppcid     |*************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLop_id

**Relation Description**
This relation is part of the call type determination used for OSPS DA and C-ACD calls.

**Attribute: dest_x**

**Fullname:** Destination index from digit analysis

**Attribute Description** Usually populate at least three of same destination index for all screening indices.

**Attribute: screen_x**

**Fullname:** Screening index

**Attribute Description** Screening index associated with the incoming port.

**Attribute: prefix**

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**Fullname:** Dialing prefix from the dialed digit sequence

**Attribute Description** Must be a value in any tuple in the RLdaprlfnl relation.

**Attribute: opnoc**

**Fullname:** Operator normalized code

**Attribute Description** This is the operator normalized code for look-up with local digits. This attribute must contain 0 if oppcid is non-zero. If opnoc is non-zero, there must be a tuple with opnoc as its key value in RLop_iddn.

**Attribute: ospsff**

**Fullname:** OSPS fast feature item

**Attribute Description** The item is to be used for future OSPS fast feature development.

**Attribute: oppcid**

**Fullname:** Operator pre-call identifier used in call types

**Attribute Description** This attribute must be 0 if opnoc is non-zero. If non-zero, there must be a tuple with oppcid as its key value in RLac_tkct.

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# OP_IDDN

## 1. Description

OSPS call identification table for local digits.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 512 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page levl | 0 |

## 3. Field Layout

```
OP_IDDN     relid = 633   DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     locdn       DMLOCDIG     (array [ 4 ] of char )  <--- key
     opnoc       DMOPNOC      (ushort: 9)  <--- key
     ospsff      DMUNS7       (ushort: 7)
     oppcid      DMUNS9       (ushort: 9)
         User, Compacted and Stored Tuple Layout    OP_IDDN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                             locdn                             |
    |---------------+---------------+---------------+---------------|
    |                 |             |                 |             |
  4 |      opnoc      |    ospsff   |      oppcid     |*************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLop_iddn

**Relation Description**
This relation is part of the OSPS call type determination for DA and C-ACD applications.

It should be used when it is desired to identify calls based on the called number's address digits (last four).

There can be multiple tuples with the same opnoc value in this relation. When a tuple is deleted and if it's the only (last) tuple with a given opnoc, then a check must be made to verify that there is no tuple in the RLop_id relation with this opnoc value.

This relation should be used when it is desired to identify operator calls based on the called number's address digits (last four).

**Attribute: opnoc**

**Fullname:** Operator Normalize Code

**Attribute Description** This key is obtained by reading the opnoc attribute of a RLop_id relation tuple. Note that zero is not a valid key value since when the RLop_id opnoc attribute is zero, the non-zero RLop_id oppcid attribute will be used to index RLac_tkct directly.

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**Attribute: locdn**

**Fullname:** Local digits dialed

**Attribute Description** Local digits to be identified. Must always be four characters '0'-'9' and never blank.

**Attribute: ospsff**

**Fullname:** OSPS fast feature item

**Attribute Description** The item is to be used for future OSPS fast feature development.

**Attribute: oppcid**

**Fullname:** Operator Pre-Call IDentifier

**Attribute Description** This is the operator pre-call identifier used to determine the call type by serving as one of the two keys into RLac_tkct.

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# OPDBPARM

## 1. Description

Database parameters which allow an operator to access an external database.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 31 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 2 |

## 3. Field Layout

```
OPDBPARM    relid = 930   DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     srchwd1     DMSRCHSTR    (array [ 10 ] of char )
     srchwd2     DMSRCHSTR    (array [ 10 ] of char )
     db_name     DMCHAR6      (array [ 6 ] of char )
     s_psize     DMPSIZE      (ushort: 13)
 (a) db_termtype  DMDB_TRTYP   (ushort: 3)
     r_psize     DMPSIZE      (ushort: 13)
 (b) s_wsize     DMUNS3       (ushort: 3)
     cust_cugx   DMPSCTCUGX   (uchar)
     db_type     DMUNS5       (ushort: 5)     <--- key
 (c) r_wsize     DMUNS3       (ushort: 3)
     t20         DMUNS5       (ushort: 5)
     t25         DMUNS5       (ushort: 5)
     wd1size     DMSTRCNT     (ushort: 4)
     wd2size     DMSTRCNT     (ushort: 4)
     r20         DMUNS4       (ushort: 4)
     db_adr      DMDN11_BCD   (struct)
         dn0         DMBCD        (ushort: 4)
         dn1         DMBCD        (ushort: 4)
         dn2         DMBCD        (ushort: 4)
         dn3         DMBCD        (ushort: 4)
         dn4         DMBCD        (ushort: 4)
         dn5         DMBCD        (ushort: 4)
         dn6         DMBCD        (ushort: 4)
         dn7         DMBCD        (ushort: 4)
         dn8         DMBCD        (ushort: 4)
         dn9         DMBCD        (ushort: 4)
         dn10        DMBCD        (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
     db_adr2     DMDN11_BCD   (struct)
         dn0         DMBCD        (ushort: 4)
         dn1         DMBCD        (ushort: 4)
         dn2         DMBCD        (ushort: 4)
         dn3         DMBCD        (ushort: 4)
         dn4         DMBCD        (ushort: 4)
         dn5         DMBCD        (ushort: 4)
         dn6         DMBCD        (ushort: 4)
```

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```
        dn7         DMBCD        (ushort: 4)
        dn8         DMBCD        (ushort: 4)
        dn9         DMBCD        (ushort: 4)
        dn10        DMBCD        (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        User, Compacted and Stored Tuple Layout   OPDBPARM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                             srchwd1                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                             srchwd1                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  8 |             srchwd1           |             srchwd2           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                             srchwd2                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                             srchwd2                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                             db_name                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                       |       |
 24 |             db_name           |          s_psize      |   a   |
    |---------------+---------------+---------------+---------------|
    |                         |     |                 |     |       |
 28 |          r_psize        |  b  |    cust_cugx    | db_type |  c  |
    |---------------+---------------+---------------+---------------|
    |         |         |       |   |       |       |               |
 32 |   t20   |   t25   |wd1size|***|wd2size|  r20  |***************|
    |===============+===========  db_adr ===========+===============|
    |       |       |       |       |       |       |       |       |
 36 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |                               |
 40 |  dn8  |  dn9  |  dn10 | digcnt|*******************************|
    |===============+=========== db_adr2 ===========+===============|
    |       |       |       |       |       |       |       |       |
 44 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |                               |
 48 |  dn8  |  dn9  |  dn10 | digcnt|*******************************|
    |===============+===============+===============+===============|
      ( 52 bytes )
```

## 4. Population Rules for RLopdbparm

**Relation Description**
Database parameters which allow an operator to access an external database.

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This relation defines the parameters of the databases which can be assigned to the database keys on the operator's terminal.

To allow the addition of new vendors/emulations during the life of the generic without requiring relational definition language (RDL) changes, the following local defines must be used by code on the switch for db_termtype, RLpos_port.cstfeat and RLpos_lprt.cstfeat:

```
#define OA_TRAINER  5
#define OA_CSTNULL  0
#define OA_TEMPLATE 1
#define OA_BASIC    2
#define OA_IBMEM    3
#define OA_VLTDEM   4
```

**Attribute: db_type**

**Fullname:** Database number

**Attribute Description** This is a unique number assigned to the database on this switch.

**Attribute: db_name**

**Fullname:** Database name

**Attribute Description** The name of the database. This name will be used to refer to this database in other recent change (RC)/ODA views, and it will be used to label the database key to which it has been assigned on the operator terminal display.

**Attribute: wd1size**

**Fullname:** Word 1 size

**Attribute Description** This is the number of characters in the attribute srchwd1.

**Attribute: srchwd1**

**Fullname:** Search word 1

**Attribute Description** This is the first string sent out by the database during a login sequence.

**Attribute: wd2size**

**Fullname:** Search word 2 size

**Attribute Description** This is the number of characters in the attribute srchwd2.

**Attribute: srchwd2**

**Fullname:** Search word 2

**Attribute Description** This is the second string sent out by the database during a login sequence.

**Attribute: db_adr**

**Fullname:** Database address

**Attribute Description** This is the first integrated services digital network (ISDN) destination packet

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telephone number of the database.

**Attribute: db_adr.dn0**

**Fullname:** Digit number 0

**Attribute Description** This is the first binary coded decimal (BCD) digit of the ISDN packet telephone number.

**Attribute: db_adr.dn1**

**Fullname:** Digit number 1

**Attribute Description** This is the second BCD digit of the ISDN packet telephone number.

**Attribute: db_adr.dn2**

**Fullname:** Digit number 2

**Attribute Description** This is the third BCD digit of the ISDN packet telephone number.

**Attribute: db_adr.dn3**

**Fullname:** Digit number 3

**Attribute Description** This is the fourth BCD digit of the ISDN packet telephone number.

**Attribute: db_adr.dn4**

**Fullname:** Digit number 4

**Attribute Description** This is the fifth BCD digit of the ISDN packet telephone number.

**Attribute: db_adr.dn5**

**Fullname:** Digit number 5

**Attribute Description** This is the sixth BCD digit of the ISDN packet telephone number.

**Attribute: db_adr.dn6**

**Fullname:** Digit number 6

**Attribute Description** This is the seventh BCD digit of the ISDN packet telephone number.

**Attribute: db_adr.dn7**

**Fullname:** Digit number 7

**Attribute Description** This is the eighth BCD digit of the ISDN packet telephone number.

**Attribute: db_adr.dn8**

**Fullname:** Digit number 8

**Attribute Description** This is the ninth BCD digit of the ISDN packet telephone number.

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**Attribute: db_adr.dn9**

**Fullname:** Digit number 9

**Attribute Description** This is the tenth BCD digit of the ISDN packet telephone number.

**Attribute: db_adr.dn10**

**Fullname:** Digit number 10

**Attribute Description** This is the eleventh BCD digit of the ISDN packet telephone number.

**Attribute: db_adr.digcnt**

**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the packet telephone number.

**Attribute: db_adr2**

**Fullname:** Database address 2

**Attribute Description** This is the second ISDN destination packet telephone number of the database. This is only used for databases which support TEMPLATE terminal emulation.

**Attribute: db_adr2.dn0**

**Fullname:** Digit number 0

**Attribute Description** This is the first BCD digit of the ISDN packet telephone number.

**Attribute: db_adr2.dn1**

**Fullname:** Digit number 1

**Attribute Description** This is the second BCD digit of the ISDN packet telephone number.

**Attribute: db_adr2.dn2**

**Fullname:** Digit number 2

**Attribute Description** This is the third BCD digit of the ISDN packet telephone number.

**Attribute: db_adr2.dn3**

**Fullname:** Digit number 3

**Attribute Description** This is the fourth BCD digit of the ISDN packet telephone number.

**Attribute: db_adr2.dn4**

**Fullname:** Digit number 4

**Attribute Description** This is the fifth BCD digit of the ISDN packet telephone number.

**Attribute: db_adr2.dn5**

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**Fullname:** Digit number 5

**Attribute Description** This is the sixth BCD digit of the ISDN packet telephone number.

**Attribute: db_adr2.dn6**

**Fullname:** Digit number 6

**Attribute Description** This is the seventh BCD digit of the ISDN packet telephone number.

**Attribute: db_adr2.dn7**

**Fullname:** Digit number 7

**Attribute Description** This is the eighth BCD digit of the ISDN packet telephone number.

**Attribute: db_adr2.dn8**

**Fullname:** Digit number 8

**Attribute Description** This is the ninth BCD digit of the ISDN packet telephone number.

**Attribute: db_adr2.dn9**

**Fullname:** Digit number 9

**Attribute Description** This is the tenth BCD digit of the ISDN packet telephone number.

**Attribute: db_adr2.dn10**

**Fullname:** Digit number 10

**Attribute Description** This is the eleventh BCD digit of the ISDN packet telephone number.

**Attribute: db_adr2.digcnt**

**Fullname:** Digit count

**Attribute Description** This is the count of the number of digits in the second packet telephone number.

**Attribute: cust_cugx**

**Fullname:** Customer closed user group index

**Attribute Description** This closed user group index is sent to the video display terminal (VDT). The VDT will use this number to form an X.25 call request packet with a closed user group facility equal to this value.

**Attribute: s_wsize**

**Fullname:** Send window size

**Attribute Description** The X.25 send window size.

**Attribute: s_psize**

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**Fullname:** Send packet size

**Attribute Description** The X.25 send packet size. Nonzero values must be powers of 2 and could theoretically range from 16 to 4096 (that is, 16, 32, 64, ...4096) but in the *5ESS*®-2000 switch the actual value is restricted to less than this.

**Attribute: r_wsize**

**Fullname:** Receive window size

**Attribute Description** The X.25 receive window size.

**Attribute: r_psize**

**Fullname:** Receive packet size

**Attribute Description** The X.25 receive packet size. Nonzero values must be powers of 2 and could theoretically range from 16 to 4096 (that is, 16, 32, 64, ... 4096) but in the *5ESS*®-2000 switch the value is restricted to less than this.

**Attribute: t20**

**Fullname:** Restart request response timer (seconds)

**Attribute Description** The X.25 level 3 timer used to time the response to the sending of RESTART REQUEST packet from the data terminal equipment (DTE) to the data communication equipment (DCE). The timer is started when a RESTART REQUEST packet is sent out and stopped when a RESTART CONFIRMATION or a RESTART REQUEST is received by the DTE. Upon expiring, R20 is decremented and another RESTART REQUEST is sent out with T20 being restarted.

**Attribute: t25**

**Fullname:** Data packet acknowledgement timer (seconds)

**Attribute Description** The X.25 level timer used to time the acknowledgement of DATA packets. This timer is started whenever a DATA packet is sent from the DTE. It is also started whenever a DATA, receiver ready (RR), or receiver not ready (RNR) packet is received with a P(R) that rotates the level 3 window. Upon expiring, the level 3 reset procedure is invoked with a RESET REQUEST packet being sent out from the DTE.

**Attribute: r20**

**Fullname:** Restart request retransmission count

**Attribute Description** The X.25 level 3 counter associated with T20. R20 is decremented upon T20 expiring. When T20 expires R20 times, level 3 communication is declared as broken with the application being informed of this event.

**Attribute: db_termtype**

**Fullname:** Terminal interface to the database

**Attribute Description** This defines the type of emulation used by the terminal when interfacing with the database.

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**Defines:** "db/DMportindx.h"

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# OPEISDB

## 1. Description

Static relation containing serving team, database and EIS related information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 800 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| foldtype | DBGC31 |

## 3. Field Layout

```
OPEISDB     relid = 1268  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     serv_id     DMUNS10      (ushort: 10)  <--- key
     db_key      DMDBKEYS     (enum: 5)
 (a) oaff1       DMBOOL       (enum: 1)
     serv_tm     DMUNS8       (ushort: 8)  <--- key
     eis_id      DMEIS_ID     (ushort: 5)
     oaff2       DMUNS3       (ushort: 3)
         User, Compacted and Stored Tuple Layout    OPEISDB
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |         | |               |         |     |
  0 |      serv_id      |  db_key |a|    serv_tm    |  eis_id |oaff2|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLopeisdb

**Relation Description**
Operator's EIS and Terminal Data Base Key.

This relation associates the EIS ID and the database key from the operator terminal with a particular serving team and service ID. This allows the proper database display and EIS service to be provided to an operator when a call is routed to their position, based on their serving team ID and service ID of the call.

Maximum number of tuples is 800 (based on 50 serving teams and 16 service IDs). Expected average number is 300.

**Attribute: serv_tm**

**Fullname:** External Information Serving Team Number

**Attribute Description** Number of the serving team to be associated with a particular service ID.

**Attribute: serv_id**

**Fullname:** External Information Service Identification Number

**Attribute Description** This attribute is for entering a service identification number associated with a

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particular type of service.

**Attribute: eis_id**

**Fullname:** External Information System Identification Number

**Attribute Description** This attribute is for entering an EIS number.

**Attribute: db_key**

**Fullname:** Data Base Key Number

**Attribute Description** This attribute is for entering database key number from the operator terminal to be associated with a particular serving team and service ID.

**Attribute: oaff1**

**Fullname:** spare 1

**Attribute Description** Fast Feature Spare.

**Attribute: oaff2**

**Fullname:** spare 2

**Attribute Description** Fast Feature Spare.

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# OPEXTDB

## 1. Description

External database which is accessible by an operator serving team.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2580 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |

## 3. Field Layout

```
OPEXTDB     relid = 931   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     loginid     DMDBLOGID    (array [ 6 ] of char )
     serv_tm     DMUNS8       (ushort: 8)  <--- key
     ofc_num     DMUNS6       (ushort: 6)  <--- key
 (a) autologin   DMBOOL       (enum: 1)
 (b) autosession  DMBOOL       (enum: 1)
     db_key      DMDBKEYS     (enum: 5)  <--- key
     db_type     DMUNS5       (ushort: 5)
 (c) term_loginid  DMTRMNTR     (enum: 4)
 (d) ospslogin   DMBOOL       (enum: 1)
 (e) rvchg_ind   DMBOOL       (enum: 1)
 (f) term_passwd  DMTRMNTR     (enum: 4)
 (g) sz_passwd   DMUNS4       (ushort: 4)
 (h) sz_loginid  DMUNS3       (ushort: 3)
     passwd      DMDBPSWD     (array [ 8 ] of char )
         User, Compacted and Stored Tuple Layout    OPEXTDB
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                            loginid                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                 |               |           | | |
  4 |            loginid              |    serv_tm    |  ofc_num  |a|b|
    |---------------+---------------+---------------+---------------|
    |         |         |       | | |       |       |     |         |
  8 |  db_key | db_type |   c   |d|e|   f   |   g   |  h  |*********|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                             passwd                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                             passwd                            |
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population Rules for RLopextdb

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**Relation Description**
External database which is accessible by an operator serving team.

MEMORY ENGINEERING INFORMATION:
The maximum number of tuples is determined from the following algorithm: #db_num x # of ofc_num x # of serv_tm.

In Release 5E4(2) the maximum value of db_num is 1, the maximum value of ofc_num is 32, and the maximum value of serv_tm is 129. Therefore: the maximum number of tuples is 1 x 32 x 129 = 4128

In 5E6, the previous is still valid, since all office/serv team combinations must have the same db_key. Assuming no setup would ever have more than 20 offices, the maximum number of tuples is more likely to be 2580.

**Attribute: db_key**

**Fullname:** Database key on the operator console

**Attribute Description** This corresponds to a database softkey on the operator terminal. For this serving team and office ID, this database key is assigned to have the database given in the database name field.

**Attribute: ofc_num**

**Fullname:** Operator service center number

**Attribute Description** Operator service center (OSC) number.

**Attribute: serv_tm**

**Fullname:** Serving team number

**Attribute Description** Serving team number.

**Attribute: db_type**

**Fullname:** Database number from RLopdbparm

**Attribute Description** This defines which database on the switch is assigned to this tuple. Possible databases are defined in RLopdbparm.

**Attribute: sz_loginid**

**Fullname:** SZ login ID

**Attribute Description** Number of non-NULL characters in loginid. Restricted to 0 through SZDBLOGID.

**Attribute: loginid**

**Fullname:** Login ID

**Attribute Description** User login ID used for the external database login. This is a string of SZDBLOGID characters.

**Attribute: term_loginid**

**Fullname:** Termination Login ID

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**Attribute Description** Termination character for the loginid string.

**Attribute: sz_passwd**

**Fullname:** Size of Password

**Attribute Description** Number of non_NULL characters in password. Range is in 0 through SZDBPSWD.

**Attribute: passwd**

**Fullname:** Password

**Attribute Description** Password used for the external database login. This is a string of SZDBPSWD characters.

**Attribute: term_passwd**

**Fullname:** Termination password

**Attribute Description** Termination character for the passwd string.

**Attribute: autologin**

**Fullname:** Autologin Indicator

**Attribute Description** Should the VDT execute the auto login procedure whenever a session is established with this database?

**Attribute: autosession**

**Fullname:** Auto session indicator

**Attribute Description** Should session with this database be established automatically whenever the operator logs in to OSPS?

**Attribute: ospslogin**

**Fullname:** OSPS login indicator

**Attribute Description** Should the OSPS login be used as the login to this database?

**Attribute: rvchg_ind**

**Fullname:** Reverse charging indicator

**Attribute Description** Should the database DSLs be charged for calls to this database? If this is yes, then the database DSL must be engineered to accept reversed charge calls.

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# OSDC

## 1. Description

This relation contains the valid operator special dialed codes which can be used for residual calls.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
OSDC        relid = 923   DBSTATIC   DBACC_LIN   DBPRAM    FG      NULL
     osdc        DMOSDC       (ulong: 17)  <--- key
     ospsff      DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout   OSDC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |               |               |
  0 |               osdc             |     ospsff    |*************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLosdc

**Relation Description**
This relation contains the valid operator special dialed codes which can be used for residual calls.

**Attribute: osdc**

**Fullname:** Operator special dialed code

**Attribute Description** This is a valid OSDC for making residual calls.

All residual OSDC's for an office are either 4 digits of the form 11xx or 5 digits of the form 11xxx. Therefore a given RLosdc relation can have both 4 and 5 digit codes. If it is expected that the same residual OSDC will be dialed with both a 4 and 5 digit code to different destinations, then both the 4 and 5 digit code should be populated in this relation. For example, if calls to a marine operator are dialed as NPA-TTC-1153 to one destination and dialed as NPA-11531 to another destination, both codes (1153 and 11531) should be populated in this relation.

**Attribute: ospsff**

**Fullname:** OSPS fast feature

**Attribute Description** OSPS fast feature item - the item is to be used for future OSPS fast feature development.

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# OSPS_INT

## 1. Description

Incoming OSPS ID to an internal ID.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 127 |
| expected tuples in relation | 50 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFR |
| relation type | DBSTATIC |

## 3. Field Layout

```
OSPS_INT    relid = 1148  DBSTATIC   DBACC_CIND  DBPRAM    LRFR    NULL
     in_osps     DMOSPSID     (ushort: 14)  <--- key
     inc_dtrkg   DMGRUPNM     (ushort: 11)
     inc_btrkg   DMGRUPNM     (ushort: 11)
     int_id      DMUNS7       (ushort: 7)
     sw_name     DMCTXT4      (array [ 4 ] of char )
         User, Compacted and Stored Tuple Layout   OSPS_INT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |   |                       |         |
  0 |           in_osps             |***|      inc_dtrkg        |*********|
    |---------------+---------------+---------------+---------------|
    |                       |         |              | |                |
  4 |       inc_btrkg       |*********|    int_id    |*|    sw_name     |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                   |                |
  8 |                     sw_name                       |****************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLosps_int

**Relation Description**
Incoming OSPS ID to internal ID.

Relation for mapping a four digit OSPS ID number to an internal ID number from 1 to 100 and its associated B and D channel trunk group number.

**Attribute: in_osps**

**Fullname:** Incoming OSPS ID

**Attribute Description** ID of the switch that is interflowing calls to this switch

**Attribute: int_id**

**Fullname:** Internal ID number

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**Attribute Description** Indicates the internal ID number of the switch that the call is being received from.

**Attribute: sw_name**

**Fullname:** Name of the OSPS switch associated with the incoming OSPS ID

**Attribute Description** Indicates the name of the OSPS switch that is Interflowing calls to this switch.

**Attribute: inc_dtrkg**

**Fullname:** Incoming D-channel trunk group number

**Attribute Description** Indicates the trunk group number of the D-channels for incoming interflow traffic with class of service = OA_IFTERM and trunk direction = RTISDNLK

**Attribute: inc_btrkg**

**Fullname:** Incoming B-channel trunk group number

**Attribute Description** Indicates the trunk group number of the B-channels for incoming interflow traffic with class of service = OA_IFTERM and trunk direction = RTINCOM.

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# OSPSPARM

## 1. Description

This static relation contains the OSPS Admin office parameters. This relation is used to determine the following:

(1) The OSPS Administrative office ID ( FMC or OSC and an ID number).

(2) The physical location (PSM, d-channel port number) of a given FMC/OSC.

(3) Whether the administrative port is connected to an OAP or is just an external data port (no input).

(4) Permission/screening information for OSPS report/display distribution.

(5) List of serving teams in the OSC (if the office is an OSC)

(6) Operator "made busy" threshold for position status display.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 40 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFG |
| relation type | DBSTATIC |
| head table size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |

## 3. Field Layout

```
OSPSPARM    relid = 732   DBSTATIC   DBACC_CIND  DBPRAM    LRFG    NULL
     spare2       DMUSHORT      (ushort)
     ofc_type     DMCHR         (char)      <--- key
     ofc_msk1     DMUCHAR       (uchar)
     ofc_msk2     DMUCHAR       (uchar)
     ofc_msk3     DMUCHAR       (uchar)
     ofc_msk4     DMUCHAR       (uchar)
     ofc_msk5     DMUCHAR       (uchar)
     ofc_num      DMUNS6        (ushort: 6)     <--- key
     ofc_fmc      DMUNS4        (ushort: 4)
 (a) ofc_thresh   DMUNS3        (ushort: 3)
 (b) spare1       DMUNS3        (ushort: 3)
 (c) ofc_dlink    DMUNS2        (ushort: 2)
 (d) ofc_oap      DMBOOL        (enum: 1)
 (e) ofc_pm1      DMBOOL        (enum: 1)
 (f) ofc_pm2      DMBOOL        (enum: 1)
 (g) ofc_pm3      DMBOOL        (enum: 1)
 (h) ofc_pmop     DMBOOL        (enum: 1)
 (i) ofc_dcq      DMBOOL        (enum: 1)
 (j) ofc_dst      DMBOOL        (enum: 1)
 (k) ofc_dpos     DMBOOL        (enum: 1)
 (l) ofc_dop      DMBOOL        (enum: 1)
 (m) ofc_prf1     DMBOOL        (enum: 1)
 (n) ofc_prf2     DMBOOL        (enum: 1)
```

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```
(o) ofc_prf3    DMBOOL       (enum: 1)
(p) ofc_prfop   DMBOOL       (enum: 1)
(q) mon_ndcator  DMBOOL       (enum: 1)
    gdport      DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    ofc_st1     DMHEX32      (ulong)
    ofc_st2     DMHEX32      (ulong)
    ofc_st3     DMHEX32      (ulong)
    ofc_st4     DMHEX32      (ulong)
        User, Compacted and Stored Tuple Layout   OSPSPARM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |               |               |
 0 |             spare2            |    ofc_type   |    ofc_msk1   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 4 |    ofc_msk2   |    ofc_msk3   |    ofc_msk4   |    ofc_msk5   |
   |---------------+---------------+---------------+---------------|
   |           |       |     |     |   | | | | | | | | | | | | | | |
 8 |  ofc_num  |ofc_fmc|  a  |  b  | c |d|e|f|g|h|i|j|k|l|m|n|o|p|q|
   |===============+===========  gdport ===========+===============|
   |                               |               |               |
12 |             member            |***************|     module    |
   |===============+===============+===============+===============|
   |                                                               |
16 |                           ofc_st1                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |                           ofc_st2                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
24 |                           ofc_st3                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
28 |                           ofc_st4                             |
   |---------------+---------------+---------------+---------------|
      ( 32 bytes )
```

## 4. Population Rules for RLospsparm

**Relation Description**

OSPS is a feature available on a *5ESS*®-2000 switch.

One switch can support only one OSPS. Each individual OSPS can support a max of 8 force management centers (FMC)s and 32 Operator Service Centers. Each FMC and OSC within a given OSPS has a unique ID satisfying the following rules. However, there is no uniqueness requirement on FMC/OSC IDs in different OSPS sites, that is, 2 different OSPS sites can have identical OSC and FMC IDs.

The relation is used to determine the following:

(1) the OSPS Administrative office ID (FMC or OSC and an ID number).

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(2) the physical location (PSM, d-channel port number) of a given FMC/OSC.

(3) whether the administrative port is connected to an OAP or to a commercial ACD management information system (MIS).

(4) permission/screening information for OSPS report/display distribution.

(5) list of serving teams to appear in part 3 of 15 minute report.

(6) operator 'made busy' threshold for position status display.

(7) whether operators receive indicator when they are being monitored.

(8) type of data link used for office (ATA/STA).

(9) whether or not an OSC's event reports are forwarded to the owning FMC.

**Attribute: ofc_type**

**Fullname:** Office type

**Attribute Description** Office type, 'F' for FMC or 'O' for OSC.

**Attribute: ofc_num**

**Fullname:** Office number

**Attribute Description** Office number.
1-8 inclusive if ofc_type='F'.
1-32 inclusive if ofc_type='O'.

**Attribute: gdport**

**Fullname:** Global D-channel port

**Attribute Description** D-channel global port number for office.

The servclass attribute of this port in RLfc_porttyp must be AS_OAP.

For OSPS commercial ACD use, this attribute may be set for the port that has the servclass of OA_MIS_LNK. This would be used only for an OSC that is defined for the commercial ACD feature.

```
If the servclass is
OA_MIS_LNK the following must also be set to DBNO ofc_oap,
ofc_pm1 to ofc_pm3, ofc_pmop, ofc_dcq, ofc_dst, ofc_dpos, ofc_dop,
ofc_prf1 to ofc_prf3
and also the following must be set to 0:
ofc_msk1 to ofc_msk5, ofc_fmc, ofc_dlink.
```

**Attribute: gdport.member**

**Fullname:** Member

**Attribute Description** Member for D-channel global port.

**Attribute: gdport.module**

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**Fullname:** Module

**Attribute Description** Module for D-channel global port.

**Attribute: ofc_oap**

**Fullname:** Office OAP

**Attribute Description** Does the office have an OAP?

**Attribute: ofc_pm[*]**

**Fullname:** Office permission bit1-bit3

**Attribute Description** Can office get parts 1-3 of OSPS 15 minute report?

These permission bits only pertain to parts 1-3 of the 15 minute report when they are being printed at this office. If this office's 15 minute reports are being printed at another office these permission bits have no effect. Set to DBNO if the servclass of gdport in RLfc_porttyp equals OA_MIS_LNK.

**Attribute: ofc_pmop**

**Fullname:** Office permission operator report

**Attribute Description** Can office get the OSPS 24 hour operator report?

**Attribute: ofc_dcq**

**Fullname:** Office permission display queue

**Attribute Description** Can office request the call queue display?

**Attribute: ofc_dst**

**Fullname:** Office permission display serving team

**Attribute Description** Can office request the serving team display?

**Attribute: ofc_dpos**

**Fullname:** Office permission display Posn Status

**Attribute Description** Can office request the posn status display

**Attribute: ofc_dop**

**Fullname:** Office permission display Op Perf

**Attribute Description** Can office request the op perf display

**Attribute: ofc_prf[*]**

**Fullname:** Office preference bit1-bit3

**Attribute Description** Does office want parts 1-3 of OSPS 15 minute report?

These preference bits only pertain to parts 1-3 of the 15 minute report when they are being printed

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at this office. If this office's 15 minute reports are being printed at another office these preference bits have no effect. DBNO if the servclass of gdport in RLfc_porttyp equals OA_MIS_LNK.

**Attribute: ofc_prfop**

**Fullname:** Send scheduled 24 hour operator report?

**Attribute Description** Does the office want the 24 hour operator report sent automatically? When the office type is 'F', this field must be 'N', unless no other offices of any type on the same PSM have it set to 'Y'. Multiple OSC offices on the same PSM may have it set to 'Y' as long as there is no FMC office on that PSM with it set to 'Y'. The FMC version of the report uses many more OSDS messages than the OFC version, and this restriction helps prevent message control block overload on a PSM.

**Attribute: ofc_msk1**

**Fullname:** Office mask1

**Attribute Description** The following 5 attributes define a bit mask which indicates whether the office (ofc_num) will receive report/display data about other offices. If the bit is 'on' (DBYES), then the corresponding office's data is available at the office (ofc_type). Of course, a bit cannot be 'on' (=1) unless the office in question exists in this relation. If an OSC is receiving data for an FMC it will print the data for the OSCs indicated in that FMC's ofc_msk2 -> ofc_msk5.

Only sections 1 & 3 are printed for another office as section 2 is on a switch-wide basis and therefore, are the same for all offices.

IN ALL MASK ATTRIBUTES, BIT 0 IS THE LOW ORDER BIT!

For ofc_msk1, bits 0-7 are for FMCs 1-8.

```
If ofc_type = F this mask has no effect as an FMC can't receive
another FMC's reports.
If ofc_type = O this mask in effect says that this OSC will receive
the indicated FMC's reports.
```

**Attribute: ofc_msk[*]**

**Fullname:** Office mask2-5

**Attribute Description** For ofc_msk2 through ofc_msk5, this mask in effect says that this office is collecting data on the indicated OSCs.

```
For ofc_msk2, bits 0-7 are for OSCs 1-8.
For ofc_msk3, bits 0-7 are for OSCs 9-16.
For ofc_msk4, bits 0-7 are for OSCs 17-24.
For ofc_msk5, bits 0-7 are for OSCs 25-32
```

**Attribute: ofc_fmc**

**Fullname:** Office FMC

**Attribute Description** An FMC which can also receive an OSC's force records and (optionally) tickets.

If ofc_type='O', then ofc_fmc can equal 0-8.

- 0 implies: no FMC gets the OSC data
- 1-8 implies the corresponding FMC

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```
    receives the data.  The FMC must be defined to exist in
    this relation.
If ofc_type='F', then ofc_fmc must equal 0
```

**Attribute: ofc_st1**

**Fullname:** Office serving team

**Attribute Description** The following 4 attributes define bit maps of the serving teams which exist in (OSCs) or are 'owned by' (FMCs) this office. IN ALL MAP ATTRIBUTES, BIT 0 IS THE LOW ORDER BIT!

For both ofc_type='O' and ofc_type='F', the bit(s) corresponding to the serving team IDs represented in or owned by this office must equal 1. (A bit cannot be 'on' (=1) unless the corresponding serving team is defined in the relation RLstinfo.) 0 if the servclass of gdport in RLfc_porttyp equals OA_MIS_LNK.

For ofc_st1, a bit map of serving teams 1-32. Serving team 1 is the low order bit.

**Attribute: ofc_st[*]**

**Fullname:** Office serving team2-4

**Attribute Description** Bit map of serving teams 33-128.

```
ofc_st2 serving team 33-64
ofc_st3 serving team 64-96
ofc_st4 serving team 97-128
```

**Attribute: ofc_thresh**

**Fullname:** Office threshold

**Attribute Description** Number of times (0<=N<=6) within a one minute interval that an operator is allowed to be detected as 'made busy' by the position status display process before they are 'tagged' as being 'delinquent'.

**Attribute: mon_ndcator**

**Fullname:** Monitoring indicator

**Attribute Description** Monitoring indicator given?

```
DBYES - if the operators in this office are informed
        when being monitored.
DBNO  - if the operators in this office are not informed
        when being monitored.
```

**Attribute: ofc_dlink**

**Fullname:** Office data link

**Attribute Description** Type of data link and type of FMC forwarding.

```
       0 - interface using an ATA without ticket
           forwarding to the owning FMC
       1 - interface using an STA without ticket
           forwarding to the owning FMC
       2 - interface using an ATA with ticket
```

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```
    forwarding to the owning FMC
3 - interface using an STA with ticket
    forwarding to the owning FMC
```

If (ofc_type == F) or (ofc_fmc == 0) only values 0 or 1 are allowed. 0 if the servclass of gdport in RLfc_porttyp equals OA_MIS_LNK.

**Attribute: spare1**

**Fullname:** Spare Field 1

**Attribute Description** Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

**Attribute: spare2**

**Fullname:** Spare Field 2

**Attribute Description** Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

**Defines:** "db/DMport.h", "db/DMportindx.h"

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# OTR_VLD

## 1. Description

This static relation contains the valid operator trouble report (OTR) codes, OSPS Office destination for the OTR and MCC ROP printing info. This relation is used to validate OTRs entered by the operator and then is used to determine the correct destination for the OTR.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
OTR_VLD     relid = 706   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     otr_id      DMOTRID      (array [ 3 ] of char )     <--- key
     ofc_type    DMCHR        (char)
     ofc_num     DMUNS6       (ushort: 6)
 (a) otr_def     DMBOOL       (enum: 1)
 (b) otr_mcc     DMBOOL       (enum: 1)
 (c) otr_otrp    DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout    OTR_VLD
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                     otr_id                    |    ofc_type   |
    |---------------+---------------+---------------+---------------|
    |           | | | |                                           |
  4 |  ofc_num  |a|b|c|*******************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLotr_vld

**Relation Description**
Static relation containing valid operator trouble report (OTR) codes OSPS office destination for the OTR and MCC ROP printing information.

The relation is used to validate OTRs entered by the operator and then is used to determine the correct destination for the OTR.

**Attribute: otr_id**

**Fullname:** Operator Trouble Report Identifier

**Attribute Description** Numeric otr_ids consisting of 2 or 3 digits that is, '001'-'999' or '01'-'99' can be used. Single digit otr_ids cannot be used. If two digit otr_ids are entered they must be padded with a leading 0 (zero).

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Alphanumeric otr_ids must consist of 2 or 3 characters. Alphanumeric otr_ids consisting of 2 alphanumeric characters will be left justified. Single character alphanumeric otr_ids cannot be used.

Note: only numeric T&A otr_ids will be considered for transmission to an external OTR analysis system.

**Attribute: otr_def**

**Fullname:** otr_def

**Attribute Description** OTR validity indicator.

**Attribute: ofc_type**

**Fullname:** Office Type

**Attribute Description** Destination admin office type.

**Attribute: ofc_num**

**Fullname:** Office Number

**Attribute Description** Destination admin office number.

**Attribute: otr_mcc**

**Fullname:** OTR MCC

**Attribute Description** Does this OTR code get printed at the MCC ROP?

**Attribute: otr_otrp**

**Fullname:** OTR OTR printer

**Attribute Description** This attribute is controlling the printing of the OTRs at the OAP OTR printer.

The attribute is set to a default value of DBYES for all OTR IDs. For OTRs with ID 010 through 099 (only), otr_otrp attribute can be reset to a value of DBNO.

```
DBYES - indicates that the OTR is to be printed at the OAP
        OTR printer.
DBNO  - inhibits the printing of the OTR. All other OTR IDs
        cannot be changed to DBNO.
```

**Defines:** "db/DMport.h"

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## 2.16 RELATIONS: P

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# PARMS_G

## 1. Description

This is a child storage relation for RLprotparm.G virtual update relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8 |
| expected tuples | 2 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTORAGE |
| ks key store | DBNO |
| foldtype | DBGC31 |
| gkidxrel reverse index | rlPARMS_I |

## 3. Field Layout

```
PARMS_G     relid = 3117  DBSTORAGE  DBACC_GK    DBPRAM    FP      NULL


     gkPARMS_G   DMGK14       (ulong: 14)       <--- key, not stored
     tephport_start  DMUSHORT     (ushort)
     tcpmss_def  DMUSHORT     (ushort)
     ipmtu_discov  DMUSHORT     (ushort)
     uephport_start  DMUSHORT     (ushort)
     tcpttl_def  DMUNS8       (ushort: 8)
     ipreassem_timr  DMUNS8       (ushort: 8)
     icmperr_cnt  DMUNS8       (ushort: 8)
     udpttl_def  DMUNS8       (ushort: 8)
 (a) enable_mtudis  DMBOOL       (enum: 1)
 (b) chksum_enable  DMBOOL       (enum: 1)
         User and Compacted Tuple Layout    PARMS_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|         gkPARMS_G             |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  4 |         tephport_start          |           tcpmss_def          |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  8 |          ipmtu_discov           |         uephport_start        |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 12 |   tcpttl_def  | ipreassem_timr|  icmperr_cnt  |   udpttl_def  |
    |---------------+---------------+---------------+---------------|
    | | |                                                           |
 16 |a|b|***********************************************************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )


     tephport_start  DMUSHORT     (ushort)
```

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```
     tcpmss_def  DMUSHORT     (ushort)
     ipmtu_discov  DMUSHORT     (ushort)
     uephport_start  DMUSHORT     (ushort)
     tcpttl_def  DMUNS8       (ushort: 8)
     ipreassem_timr  DMUNS8       (ushort: 8)
     icmperr_cnt  DMUNS8       (ushort: 8)
     udpttl_def  DMUNS8       (ushort: 8)
 (a) enable_mtudis  DMBOOL       (enum: 1)
 (b) chksum_enable  DMBOOL       (enum: 1)
           Stored Tuple Layout      PARMS_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                          GK LINK FIELD                        |
    |---------------+---------------+---------------+---------------|
    |                                 |                             |
  4 |          tephport_start         |            tcpmss_def       |
    |---------------+---------------+---------------+---------------|
    |                                 |                             |
  8 |           ipmtu_discov          |          uephport_start     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 12 |   tcpttl_def  | ipreassem_timr|  icmperr_cnt  |   udpttl_def  |
    |---------------+---------------+---------------+---------------|
    | | |                                                           |
 16 |a|b|***********************************************************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population rules for RLparms_g

### Relation Description

There are no population rules for this relation.

# PATT_G

## 1. Description

This is a child storage relation for RLfc_porttyp.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 6144 |
| expected tuples in relation | 100 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| relation type | DBSTORAGE |
| distribution | FP |
| ks key store | DBNO |
| foldtype | DBGC31 |
| gkidxrel GK-index relation | rlPATT_I |

## 3. Field Layout

```
PATT_G      relid = 1649  DBSTORAGE  DBACC_GK    DBPRAM    FP      NULL
     gkPATT_G    DMGK14       (ulong: 14)     <--- key, not stored
     compenloss  DMISLOSS     (short)
     servclass   DMSERVCLASS  (enum)
     lp_type     DMLPTYPE     (enum: 7)
 (a) ffcf4       DMBOOL       (enum: 1)
     chanutype   DMCHANUTYP   (enum: 5)
 (b) annc_apl    DMSVC_GRP    (enum: 3)
 (c) pbalntwk    DMPBALNTWK   (enum: 4)
     spectrn     DMSPECTRN    (enum: 4)
 (d) lneqclss    DMLNEQCLSS   (enum: 3)
 (e) balntwk     DMBALNTWK    (enum: 2)
 (f) cadn        DMCADN       (enum: 2)
 (g) music_ind   DMBOOL       (enum: 1)
 (h) pterm       DMPTERM      (enum: 2)
 (i) rangex      DMRANGEX     (enum: 2)
 (j) ffcf5       DMBOOL       (enum: 1)
 (k) ffcf6       DMBOOL       (enum: 1)
 (l) ffcf7       DMBOOL       (enum: 1)
 (m) ffcf2       DMBOOL       (enum: 1)
 (n) ffcf3       DMBOOL       (enum: 1)
 (o) ialt_act    DMBOOL       (enum: 1)
 (p) dcs_trk     DMBOOL       (enum: 1)
 (q) prov        DMBOOL       (enum: 1)
 (r) hunt        DMBOOL       (enum: 1)
 (s) loaded      DMBOOL       (enum: 1)
 (t) ltsb_alwd   DMBOOL       (enum: 1)
 (u) porttype    DMPTYPE      (enum: 1)
 (v) sh_analog   DMBOOL       (enum: 1)
 (w) slcpbx      DMBOOL       (enum: 1)
 (x) testport    DMBOOL       (enum: 1)
 (y) ccssdl_dtrk  DMBOOL       (enum: 1)
        User and Compacted Tuple Layout     PATT_G
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
```

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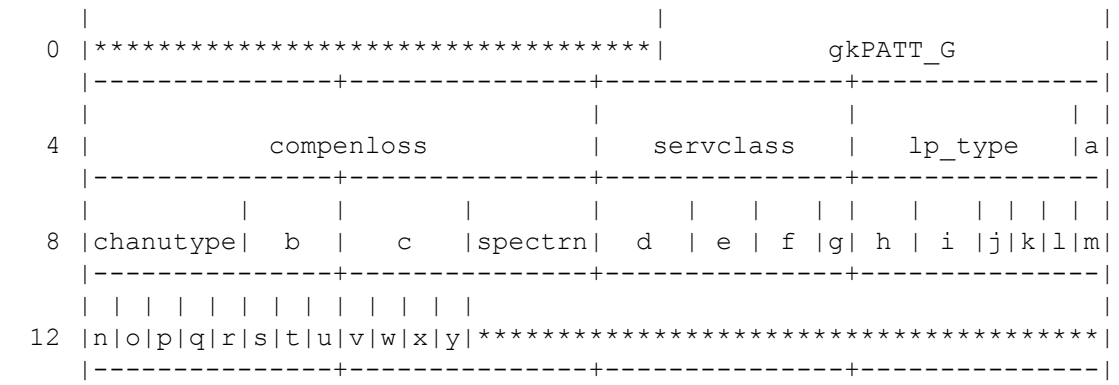
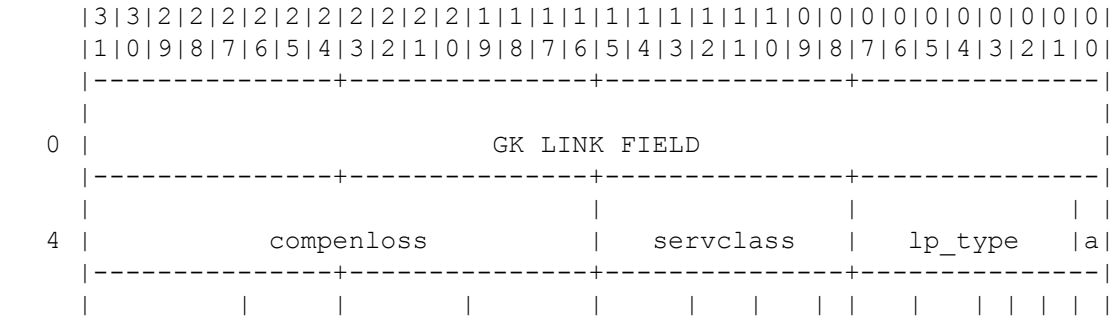



( 16 bytes )

| | | | |
|---|---|---|---|
| | compenloss | DMISLOSS | (short) |
| | servclass | DMSERVCLASS | (enum) |
| | lp_type | DMLPTYPE | (enum: 7) |
| (a) | ffcf4 | DMBOOL | (enum: 1) |
| | chanutype | DMCHANUTYP | (enum: 5) |
| (b) | annc_apl | DMSVC_GRP | (enum: 3) |
| (c) | pbalntwk | DMPBALNTWK | (enum: 4) |
| | spectrn | DMSPECTRN | (enum: 4) |
| (d) | lneqclss | DMLNEQCLSS | (enum: 3) |
| (e) | balntwk | DMBALNTWK | (enum: 2) |
| (f) | cadn | DMCADN | (enum: 2) |
| (g) | music_ind | DMBOOL | (enum: 1) |
| (h) | pterm | DMPTERM | (enum: 2) |
| (i) | rangex | DMRANGEX | (enum: 2) |
| (j) | ffcf5 | DMBOOL | (enum: 1) |
| (k) | ffcf6 | DMBOOL | (enum: 1) |
| (l) | ffcf7 | DMBOOL | (enum: 1) |
| (m) | ffcf2 | DMBOOL | (enum: 1) |
| (n) | ffcf3 | DMBOOL | (enum: 1) |
| (o) | ialt_act | DMBOOL | (enum: 1) |
| (p) | dcs_trk | DMBOOL | (enum: 1) |
| (q) | prov | DMBOOL | (enum: 1) |
| (r) | hunt | DMBOOL | (enum: 1) |
| (s) | loaded | DMBOOL | (enum: 1) |
| (t) | ltsb_alwd | DMBOOL | (enum: 1) |
| (u) | porttype | DMPTYPE | (enum: 1) |
| (v) | sh_analog | DMBOOL | (enum: 1) |
| (w) | slcpbx | DMBOOL | (enum: 1) |
| (x) | testport | DMBOOL | (enum: 1) |
| (y) | ccssdl_dtrk | DMBOOL | (enum: 1) |

Stored Tuple Layout PATT_G

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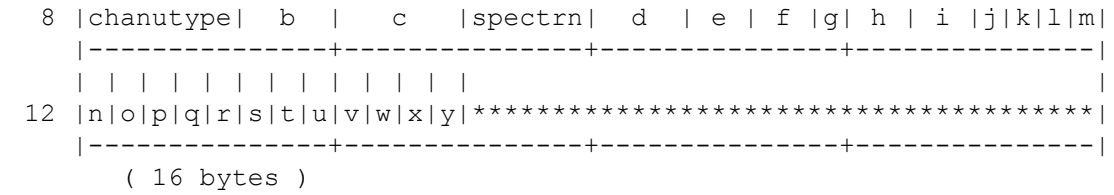


## 4. Population Rules for RLpatt_g

There are no population rules for this relation.

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# PBG_INFO

## 1. Description

This relation contains one entry for each Packet Business Group (PBG) defined.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| expected number of tuples | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
PBG_INFO    relid = 1785  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     psbgrp      DMPSBGRP     (ushort: 7)  <--- key
 (a) abbr_del    DMBOOL       (enum: 1)
 (b) abbr_len    DMABBR_LEN   (uchar: 3)
 (c) lcn_act     DMBOOL       (enum: 1)
 (d) tpc_act     DMBOOL       (enum: 1)
 (e) pbg_ama     DMBOOL       (enum: 1)
     bill_dn     DMDN         (struct)  <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
            User Tuple Layout      PBG_INFO
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               | |     | | | |                                 |
  0 |    psbgrp    |a|  b  |c|d|e|*********************************|
    |===============+=========== bill_dn ===========+===============|
    |       |       |                                                 |
  4 | digcnt|*******|                      dn                         |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
  8 |                               dn                                |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
 12 |                               dn                                |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                 |
 16 |                               dn                                |
    |===============+===============+===============+===============|
       ( 20 bytes )
     psbgrp      DMPSBGRP     (ushort: 7)  <--- key
 (a) abbr_del    DMBOOL       (enum: 1)
 (b) abbr_len    DMABBR_LEN   (uchar: 3)
 (c) lcn_act     DMBOOL       (enum: 1)
 (d) tpc_act     DMBOOL       (enum: 1)
 (e) pbg_ama     DMBOOL       (enum: 1)
     bill_dn     DMCDN        (struct)  <--- compacted
```

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```
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
         Compacted Tuple Layout   PBG_INFO
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               | |     | | | |                                 |
 0 |    psbgrp    |a|  b  |c|d|e|*********************************|
   |===============+=========== bill_dn ===========+===============|
   |       |       |       |       |       |       |       |       |
 4 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 8 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
   |===============+===============+===============+===============|
   |                                                               |
12 |***************************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
16 |***************************************************************|
   |---------------+---------------+---------------+---------------|
     ( 20 bytes )
    psbgrp      DMPSBGRP     (ushort: 7)  <--- key
(a) abbr_del    DMBOOL       (enum: 1)
(b) abbr_len    DMABBR_LEN   (uchar: 3)
(c) lcn_act     DMBOOL       (enum: 1)
(d) tpc_act     DMBOOL       (enum: 1)
(e) pbg_ama     DMBOOL       (enum: 1)
    bill_dn     DMCDN        (struct)  <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
```

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```
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
          Stored Tuple Layout     PBG_INFO
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |             | |     | | | |                                 |
 0 |    psbgrp   |a|  b  |c|d|e|*********************************|
   |===============+=========== bill_dn ===========+===============|
   |       |       |       |       |       |       |       |       |
 4 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 8 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
   |===============+===============+===============+===============|
      ( 12 bytes )
```

## 4. Population Rules for RLpbg_info

**Relation Description**
This relation contains information needed on the SM for an ISDN simulated facilities group (SFG) for packet mode calls on a packet business group (PBG) basis. The billing directory number for the PBG is stored in this relation. Information required of routing calls associated with a packet business group is stored in this relation including abbreviated dialing length, and whether aggregate LCN and throughput counts are active on this PBG.
The following tuple semantics detail the allowed values for packet business group.

```
TUPLE SEMANTICS for a Packet Business Group
-------------------------------------------------------------------
psbgrp            Packet Business Group Number
bill_dn.digcnt    {0,10} (Number of digits in Billing DN
bill_dn.dn        Billing Directory Number
abbr_len          0-6  (Abbreviated Dialing Length)
abbr_del          {DBYES,DBNO} (Abbreviated Number Delivery)
tpc_act           {DBYES,DBNO} (Aggregate Throughput counts Active)
lcn_act           {DBYES,DBNO} (Aggregate LCN counts Active)
pbg_ama           {DBYES,DBNO}
```

**Attribute: psbgrp**

**Fullname:** Packet Business Group number.

**Attribute Description** The packet business group number is used to identify the packet business group. The packet business group number is assigned to lines and multi-line hunt groups to indicate membership in the packet business group. The values for this attribute are 1 to 100.

**Attribute: bill_dn**

**Fullname:** Billing Directory Number.

**Attribute Description** This attribute specifies the billing directory number for the packet business group.

**Attribute: bill_dn.digcnt**

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**Fullname:** Billing Directory Number digit count

**Attribute Description** This attribute contains the digit count for the billing directory number. The billing DN is stored in attribute bill_dn. The values for this attribute are 0 and 10. A value of 0 denotes that no billing DN has been subscribed.
If the global office parameter GLpbgmod is DBYES, then a billing DN must be provisioned for all PBGs.

**Attribute: bill_dn.dn**

**Fullname:** Billing Directory Number digits

**Attribute Description** This attribute specifies the digits of the billing directory number for the packet business group.

**Attribute: abbr_len**

**Fullname:** Abbreviated Dialing Length.

**Attribute Description** This attribute specifies the abbreviated dialing length for the packet business group. The abbreviated dialing feature allows the incoming X.25 call request packet to contain called DN of 1-6 digits. The called DN is then filled out to 11 digits using the originator's DN.

The values of this attribute range from 0 to 6. A value of 0 denotes that abbreviated dialing is not subscribed to.

**Attribute: abbr_del**

**Fullname:** Abbreviated Number Delivery.

**Attribute Description** This attribute specifies whether the packet business group has subscribed to the abbreviated number delivery feature. The value of DBNO for this attribute denotes that abbreviated number delivery is not subscribed to.
The abbreviated number delivery feature can not be subscribed to without also subscribing to an abbreviated dialing feature.

**Attribute: lcn_act**

**Fullname:** Aggregate Logical Channel Number counts active.

**Attribute Description** This attribute specifies whether the aggregate logical channel number count should be kept for the packet business group.

If the aggregate throughput limit is greater than 0 and the overflow treatment is blocking or charge premium, then the aggregate throughput count is active; otherwise, it is inactive.

**Attribute: tpc_act**

**Fullname:** Aggregate Throughput Class count Active.

**Attribute Description** This attribute specifies whether the aggregate throughput class count should be kept for the packet business group.

If the aggregate throughput limit is greater than 0 and the overflow treatment is blocking or charge

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premium, then the aggregate throughput count is active; otherwise, it is inactive.

**Attribute: pbg_ama**

**Fullname:** Packet Business Group Automatic Message Accounting flag.

**Attribute Description** The packet business group automatic message accounting (AMA) flag specifies whether AMA records should be created for calls within the packet business group.

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# PBG_SFG

## 1. Description

This relation contains one entry for each Packet Business Group (PBG) defined.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| expected number of tuples | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| application | RCMAP |
| distribution | LP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
PBG_SFG     relid = 1787  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     num_mem     DMUNS16      (ushort)
     psbgrp      DMPSBGRP     (ushort: 7)  <--- key
 (a) ovfl_trt    DMOVFL_TRT   (enum: 2)
     aggr_lcn    DMLONG       (long)
     aggr_tpc    DMLONG       (long)
         User, Compacted and Stored Tuple Layout    PBG_SFG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               | |   |           |
  0 |             num_mem           |    psbgrp     |*| a |***********|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             aggr_lcn                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             aggr_tpc                          |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLpbg_sfg

**Relation Description**
This relation contains parameters for an ISDN simulated facilities group (SFG) for packet mode calls on a packet business group (PBG) basis.

An aggregate count of logical channel numbers and throughput used by all members of the packet business group is kept and compared against the limits contained in this relation. When these limits are reached, the overflow treatment contained in this relation is applied to the packet business group.

```
TUPLE SEMANTICS for a Packet Business Group
-------------------------------------------------------------------
psbgrp     Packet Business Group Number
aggr_lcn   0-65536 (Aggregate LCN Limit)
aggr_tpc   0-536,870,912 by 1024 (Aggregate Throughput Limit)
ovfl_trt   {PSOF_NONE,PSOF_BLOCK,PSOF_PREMIUM}
num_mem    Number of Members
```

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Packet business groups can only be assigned to members on PH3's.

**Attribute: psbgrp**

**Fullname:** Packet Business Group Number.

**Attribute Description** The packet business group number is used to identify the packet business group. The packet business group number is assigned to lines and multi-line hunt groups to indicate membership in the packet business group. The values for this attribute are 1 to 100.

**Attribute: aggr_lcn**

**Fullname:** Aggregate Logical Channel Number subscription parameter

**Attribute Description** The aggregate logical channel number subscription parameter defines the limit on logical channel numbers that can be active on a PBG before the PBG enters an overflow condition.

The values for this attribute range from 0 to 65536.

**Attribute: aggr_tpc**

**Fullname:** Aggregate Throughput Class subscription parameter.

**Attribute Description** The aggregate throughput class subscription parameter defines the limit on throughput class that can be active on a PBG before the PBG enters an overflow condition.

The value for the aggregate throughput class is provisioned in Kilo-bits-per-second (Kbps), but it is stored in bits-per-second (BPS). The value for the aggregate throughput class ranges from 0 to 524288 in increments of 1 Kbps. The value for this attribute ranges from 0 to 536870912 in increments of 1024 bps.

**Attribute: ovfl_trt**

**Fullname:** Overflow Treatment.

**Attribute Description** The overflow treatment attribute specifies the type of treatment to provide to all calls set up pertaining to the packet business group, when the packet business group is in an overflow condition.

If both the aggregate LCN and throughput limit equal 0, then the overflow treatment must be PSOF_NONE (no treatment).

**Attribute: num_mem**

**Fullname:** Number of Members.

**Attribute Description** The num_mem attribute is a count of the number of members in the packet business group. A member can be a line or a multi-line hunt group. This attribute is used by recent change to determine if a packet business group can be deleted.

The number of members is the count of all RLpsx25ln tuples with psbgrp equal to RLpbg_sfg.psbgrp added to the count of all RLrt_mhg tuples with psbgrp equal to RLpbg_sfg.psbgrp.

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# PC_MSUSG

## 1. Description

This relation maps a Metallic Service Unit (MSU) Service Group (SG) number to its Peripheral Interface Control Bus (PICB) number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 1 |

## 3. Field Layout

```
PC_MSUSG    relid = 189   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     picb        DMPICB       (ushort)
     msusg       DMUNS3       (ushort: 3)     <--- key
         User, Compacted and Stored Tuple Layout   PC_MSUSG
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |     |                         |
  0 |              picb             |msusg|*************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLpc_msusg

**Relation Description**
This relation maps a MSU service group number to its picb number.

Only 2 MSUs are allowed per SM. Each MSU is allowed 2 service groups. Quantity of Tuples: 1 tuple for each MSU service group end relation;

**Attribute: msusg**

**Fullname:** MSU service group number

**Attribute Description** Metallic service unit number times 2 plus service group number. Only 2 MSUs are allowed per SM. Each non-compact shelf SU has 2 service groups. Each compact shelf MSU has 1 service group. RLrc_loceq.com_shelf is set to DBYES if a compact shelf.

**Attribute: picb**

**Fullname:** picb number

**Attribute Description** Picb number (key of RLpicb - picb number of MSU service group) plus one.

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# PCI_PRT

## 1. Description

This relation translates the point code index and circuit code of a CCS6 or CCS7 trunk into the module and the port of the trunk.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100000 |
| expected number of tuples | 30000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTATIC |
| trigger function | CCpciprt |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
PCI_PRT     relid = 708   DBSTATIC   DBACC_DHSH  DBPRAM    LR      NULL


     port        DMPORT       (ushort)
     circuit_code  DMCKT_CODE   (ushort: 14)    <--- key
     pci         DMPCIDX      (ushort: 10)      <--- key
     protocol    DMDIGSIG     (enum: 5)
     module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout    PCI_PRT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                             |   |
  0 |              port             |        circuit_code         |***|
    |---------------+---------------+---------------+---------------|
    |                     |         | |               |               |
  4 |        pci          | protocol|*|     module    |***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLpci_prt

**Relation Description**

```
        Point code index to port relation

        This relation translates the point code index and circuit code
        of a CCS7 trunk into the module and the port of a trunk.  The
        ccs subsystem is the main user of this relation.
```

**Attribute:**

```
        pci
```

**Fullname:**

```
        Point code index
```

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**Attribute Description:**
The point code index (PCI) provides a unique internal representation of a system 7 OPC/DPC/network combination. It is derived as part of the population rules for the RLlab7_pci relation.

**Attribute:**
circuit_code
**Fullname:**
Circuit identifier code
**Attribute Description:**
The circuit identifier for the CCS trunk. For CCS7 trunks (that is, DBISUP7), this 14-bit field is the circuit identification code assigned by the CCIS network administrator and is the value of the clcitrk attribute in RLrc_trk.

For export generics, circuit_code is an arbitrary number from 0 to 4095.

**Attribute:**
module
**Fullname:**
Switching module
**Attribute Description:**
Switching module of the trunk. This is the same attribute as RLfc_trunk.port.module.

**Attribute:**
port
**Fullname:**
Port
**Attribute Description:**
The port of the trunk associated with the pci/cic code combination. This is the same attribute as RLfc_trunk.port.member.

**Attribute:**
protocol
**Fullname:**
CCS protocol
**Attribute Description:**
The CCS protocol used on this trunk.

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# PCI6_LAB

## 1. Description

This relation translates a Point Code Index (PCI) and a primary link indicator to a CCIS6 link pair. Two tuples are inserted for insertion of a tuple in RLlab6_pci. (One with primary attribute = DBNO and one with primary attribute = DBYES.) Conversely, two tuples are deleted for each deletion in RLlab6_pci.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 512 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
PCI6_LAB    relid = 712   DBSTATIC   DBACC_CIND  DBPRAM    LR      NULL
     pci         DMPCIDX      (ushort: 10) <--- key, not stored
 (a) primary     DMBOOL       (enum: 1) <--- key, not stored
     sl_group    DMSL_GROUP   (ushort: 6)
     sl_mem      DMSL_MEM     (ushort: 4)
 (b) sl_vlink    DMSL_VLINK   (ushort: 3)

         User and Compacted Tuple Layout   PCI6_LAB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   | |                                       |
  0 |        pci        |a|***************************************|
    |---------------+---------------+---------------+---------------|
    |           |       |     |                                     |
  4 |  sl_group | sl_mem|  b  |*************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )

     sl_group    DMSL_GROUP   (ushort: 6)
     sl_mem      DMSL_MEM     (ushort: 4)
 (a) sl_vlink    DMSL_VLINK   (ushort: 3)
           Stored Tuple Layout     PCI6_LAB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |           |       |     |                                     |
  0 |  sl_group | sl_mem|  a  |*************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population rules for RLpci6_lab

**Relation Description**

```
Point code index to CCIS6 routing label relation
This relation translates a point code index (pci) and a primary link
indicator to a CCIS6 link pair.  There is a one-to-one correspondence
```

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between this relation and RLlab6_pci. However, you must specify whether it is the primary link or not.

**Attribute:**
pci
**Fullname:**
Point code index
**Attribute Description:**
Point code index provides a unique internal representation of a CCIS6 link pair. See RLlab6_pci for more details.

**Attribute:**
primary
**Fullname:**
Primary link of CCIS6 link pair flag
**Attribute Description:**
Primary is a BOOLEAN which indicates whether this CCIS6 link pair is a primary or mate link as defined on the Trunk Group and Member form. Primary = DBNO indicates a mate link as assigned by the CCIS Network Administration Center(CNAC), and by the RBOCs for the local service provider. Primary = DBYES indicates a primary link as assigned by CNAC or RBOC.

**Attribute:**
sl_group
**Fullname:**
Signaling link group
**Attribute Description:**
This refers to the group of the CNI signaling link associated with this trunk. See RLlab6prt for more details.

**Attribute:**
sl_mem
**Fullname:**
Signaling link member
**Attribute Description:**
Signaling link member within a signaling link group. Supplied by CNAC (RBOC). See RLlab6prt for more details.

**Attribute:**
sl_vlink
**Fullname:**
Signaling link virtual link
**Attribute Description:**
When embedded CCIS is used (that is, CCIS6 messages passing over a 56 Kbs link), the physical link is divided into eight virtual links. This attribute specifies the virtual link. This is supplied by CNAC (RBOC).

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See RLlab6prt for more details.

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# PCI7_LAB

## 1. Description

This relation translates a point code index to a dpc/opc combination for CCS7 trunks. Tuples are inserted or deleted whenever the corresponding tuple in RLlab7_pci are inserted or deleted.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1023 |
| expected tuples in relation | 28 |
| density | 46 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFR |
| relation type | DBSTATIC |
| ks key store option | AUTO |
| trigger function | CCpci_trig |
| insert trigger | DBYES |
| update trigger | DBNO |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
PCI7_LAB    relid = 713   DBSTATIC   DBACC_CIND  DBPRAM    LRFR    NULL
     pci          DMPCIDX      (ushort: 10)     <--- key, not stored
     dpc          DMPT_CODE    (ulong: 24)
     psu_mod      DMMODULE     (ushort: 8)
     opc          DMPT_CODE    (ulong: 24)
 (a) network      DMNETWORK    (enum: 1)
         User and Compacted Tuple Layout   PCI7_LAB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  0 |         pci       |*******************************************|
    |---------------+---------------+---------------+---------------|
    |                                                 |               |
  4 |                       dpc                       |    psu_mod    |
    |---------------+---------------+---------------+---------------|
    |                                                 | |             |
  8 |                       opc                       |a|*************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
     dpc          DMPT_CODE    (ulong: 24)
     psu_mod      DMMODULE     (ushort: 8)
     opc          DMPT_CODE    (ulong: 24)
 (a) network      DMNETWORK    (enum: 1)
           Stored Tuple Layout     PCI7_LAB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                 |               |
  0 |                       dpc                       |    psu_mod    |
    |---------------+---------------+---------------+---------------|
    |                                                 | |             |
```

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```
  4 |                       opc                        |a|*************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLpci7_lab

**Relation Description**
Point code index to CCS7 routing label relation

This relation translates a Point Code Index (PCI) to a destination/origination point (DPC/OPC) code and network combination for CCS7 trunks. The ccs subsystem is the main user of this relation.

PCIs are arbitrary indexes used to save AM memory. Each trunk in the switch having a DBISUP7 (domestic only) or DBTUP7 (export only) signaling type must have a relation in the AM to translate the system 7 routing label to a global port. Since a particular OPC/DPC/network combination (49 bits) appears many times in an office, it is converted to a PCI (10 bits) to save space. PCIs are also used by CCIS6 trunks as described in the RLlab6_pci relation. Tuples in this relation are inserted, deleted, or updated based on information contained on the Trunk Group form. Any transaction on this relation should result in a corresponding transaction on the mirror relation, RLlab7_pci.

**Attribute: pci**

**Fullname:** Point code index

**Attribute Description** PCIs provide a unique internal representation of a system 7 OPC/DPC/network combination. PCIs are also shared with CCIS6 trunks. That is, system 7 PCIs are generated from the same pool as system 6 PCIs - see RLlab6_pci. See RLlab7_pci for more information.

**Attribute: dpc**

**Fullname:** Destination point code

**Attribute Description** DPC indicates the signaling point for the far-end office, except for inter-module trunks which set the DPC equal to a pseudo point code value that indicates the SM numbers on which the inter-module trunk terminates (that is, near-end SM and far-end SM). See RLlab7prt for more information.

**Attribute: opc**

**Fullname:** Origination point code

**Attribute Description** The OPC indicates the signaling point which is assigned to this office. It has the same layout as the DPC and will be assigned in the same manner. See RLlab7prt for more information.

**Attribute: network**

**Fullname:** SS7 Network to which the PCI belongs.

**Attribute Description** Network to which the PCI refers. See RLlab7prt.

**Attribute: psu_mod**

**Fullname:** PSU Module

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**Attribute Description** This attribute identifies whether the CNI or a GSM is used for CCS signaling. The value of psu_mod is set to zero if the CNI is to be used for CCS signaling; otherwise psu_mod contains the GSM number for PSU based CCS signaling.

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# PCI7GR

## 1. Description

This relation creates the CCS maintenance group messages. This relation is used to determine which Circuit Identifier Codes (CICs) are populated in a given offset of 24 CICs. This relations is used to create CCS7 Group messages for CCS Trunks.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 24192 |
| expected number of tuples | 10 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | TMpci7gr |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBYES |

## 3. Field Layout

```
PCI7GR      relid = 2113  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     cic_map     DMBMAP       (ulong: 24)
     pci         DMPCIDX      (uchar: 8)     <--- key
     cic_offset  DMCKT_CODE   (ushort: 14)     <--- key
         User, Compacted and Stored Tuple Layout PCI7GR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                     cic_map                   |      pci      |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |          cic_offset           |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLpci7gr

**Relation Description** Relation for creating CCS group messages. This relation is read to determine which circuit identifier codes (CICs) are populated in a given range of 24 CICs. This relation is used to create group blocking messages for CCS trunks, when an SM is initialized or isolated from the network.

***NOTE:*** The reason for two different relations, ampci7gr and pci7gr, is due to the large difference in maximum number of tuples between the AM and SM.

```
pci        - Point code index.  This identifies the index
             which translate to an origination point code
             and a destination point code pair.
cic_offset - Circuit code (cic) offset.  This identifies the
             starting CIC of 24 CICs indicated in the cic_map.
             This will always be a multiple of 24 starting at 0.
cic_map    - This bitmap represents which circuit codes (CIC)
             for a given PCI are populated on this SM.  A bit of
```

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```
             1 indicates that the CIC (cic_offset + bit number)
             is populated on this SM and is not CADN.  Bit 0 is
             the left most bit and 23 is the right most bit.

000000000011111111112222
012345678901234567890123
------------------------
ABCDEFGHIJKLMNOPQRSTUVWX
Assuming cic_offset is 72
A represents cic 72
B represents cic 73
        .
        .
        .
X represents cic 95
```

**Attribute: pci**

**Fullname:** Point code index

**Attribute Description** This identifies the index which translate to an origination point code, destination point code and network combination.

**Attribute: cic_offset**

**Fullname:** Starting CIC

**Attribute Description** Circuit code (CIC) offset. This identifies the starting CIC of 24 CICs indicated in the cic_map. This will always be a multiple of 24 starting at 0 (0, 24, 48, 72, 96, and so forth).

**Attribute: cic_map**

**Fullname:** CIC bitmap

**Attribute Description** This bitmap represents which circuit codes (CIC) for a give PCI are populated on this SM. A bit of 1 indicates that the CIC (cic_offset + bit number) is populated on this SM and is not CADN. Bit 0 is the left most bit and 23 is the right most bit.

```
000000000011111111112222
012345678901234567890123
------------------------
ABCDEFGHIJKLMNOPQRSTUVWX
Assuming cic_offset is 72
A represents cic 72
B represents cic 73
      .
      .
      .
X represents cic 95
```

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# PCR1_G

## 1. Description

Storage relation for GPD processor bit map.
The purpose of this relation is to identify which processors a group resides on. Each tuple contains one bit per processor, where bit 0 represents the AM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2200 |
| expected tuples | 300 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTORAGE |
| head page size | 1024 |
| data page size | 512 |
| page level | 2 |
| index length | 9 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel reverse index | rlPCR1_I |

## 3. Field Layout

```
PCR1_G      relid = 1699  DBSTORAGE  DBACC_GK    DBPRAM    LP      RCMAP
     gkPCR1_G    DMGK14       (ulong: 14)  <--- key, not stored
     pcr_map2    DMGPDMAP     (long)
     pcr_map3    DMGPDMAP     (long)
     pcr_map4    DMGPDMAP     (long)
         User and Compacted Tuple Layout     PCR1_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkPCR1_G             |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  4 |                           pcr_map2                              |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  8 |                           pcr_map3                              |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 12 |                           pcr_map4                              |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
     pcr_map2    DMGPDMAP     (long)
     pcr_map3    DMGPDMAP     (long)
     pcr_map4    DMGPDMAP     (long)
           Stored Tuple Layout   PCR1_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
```

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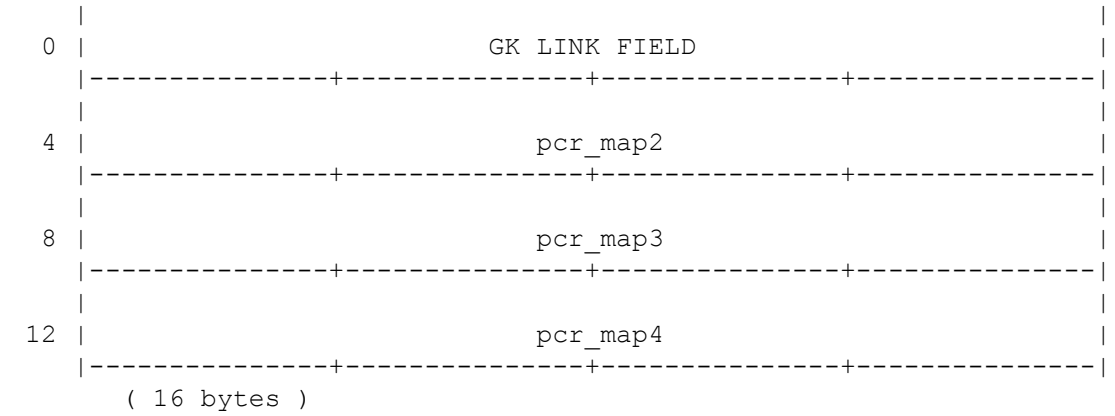


## 4. Population Rules for RLpcr1_g

There are no population rules for this relation.

# PCRIP_R

## 1. Description

This is a root storage relation for RLpcrtoip.G virtual update relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| expected tuples | 50 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTORAGE |
| foldtype | DBGC31 |

## 3. Field Layout

```
PCRIP_R     relid = 3158  DBSTORAGE  DBACC_DHSH  DBPRAM    FR      NULL


     pcr_name    DMPCRNAME    (struct)  <--- key
         pcr_id      DMUNS8       (ushort: 8)
         qualA       DMUNS8       (ushort: 8)
         qualB       DMUNS8       (ushort: 8)
         qualC       DMUNS8       (ushort: 8)
     ipptr1      DMGK14       (ulong: 14)
     ipptr2      DMGK14       (ulong: 14)
     ipptr3      DMGK14       (ulong: 14)
     ipptr4      DMGK14       (ulong: 14)
     ipptr5      DMGK14       (ulong: 14)
     maskptr1    DMGK14       (ulong: 14)
     maskptr2    DMGK14       (ulong: 14)
     maskptr3    DMGK14       (ulong: 14)
     maskptr4    DMGK14       (ulong: 14)
     maskptr5    DMGK14       (ulong: 14)
         User, Compacted and Stored Tuple Layout    PCRIP_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+==========  pcr_name ==========+===============|
    |               |              |                |               |
  0 |     pcr_id    |     qualA    |     qualB      |     qualC     |
    |===============+==============+================+===============|
    |                              |                                |       |
  4 |           ipptr1             |           ipptr2               |*******|
    |---------------+--------------+----------------+---------------|
    |                              |                                |       |
  8 |           ipptr3             |           ipptr4               |*******|
    |---------------+--------------+----------------+---------------|
    |                              |                                |       |
 12 |           ipptr5             |          maskptr1              |*******|
    |---------------+--------------+----------------+---------------|
    |                              |                                |       |
 16 |          maskptr2            |          maskptr3              |*******|
    |---------------+--------------+----------------+---------------|
    |                              |                                |       |
```

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```
 20 |          maskptr4         |          maskptr5         |*******|
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population rules for RLpcrip_r

**Relation Description**

There are no population rules for this relation.

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# PCRTOIP

## 1. Description

This relation is the for the processor to IP assignment.

This is a Virtual Update relation. The Root storage relation is RLpcrip_r.G. The Child storage relations are RLipaddr_g.G, RLipintf_g.G and RLmasks_g.G. The tree diagram Figure 1 depicts the stored structure of virtual relation PCRTOIP.

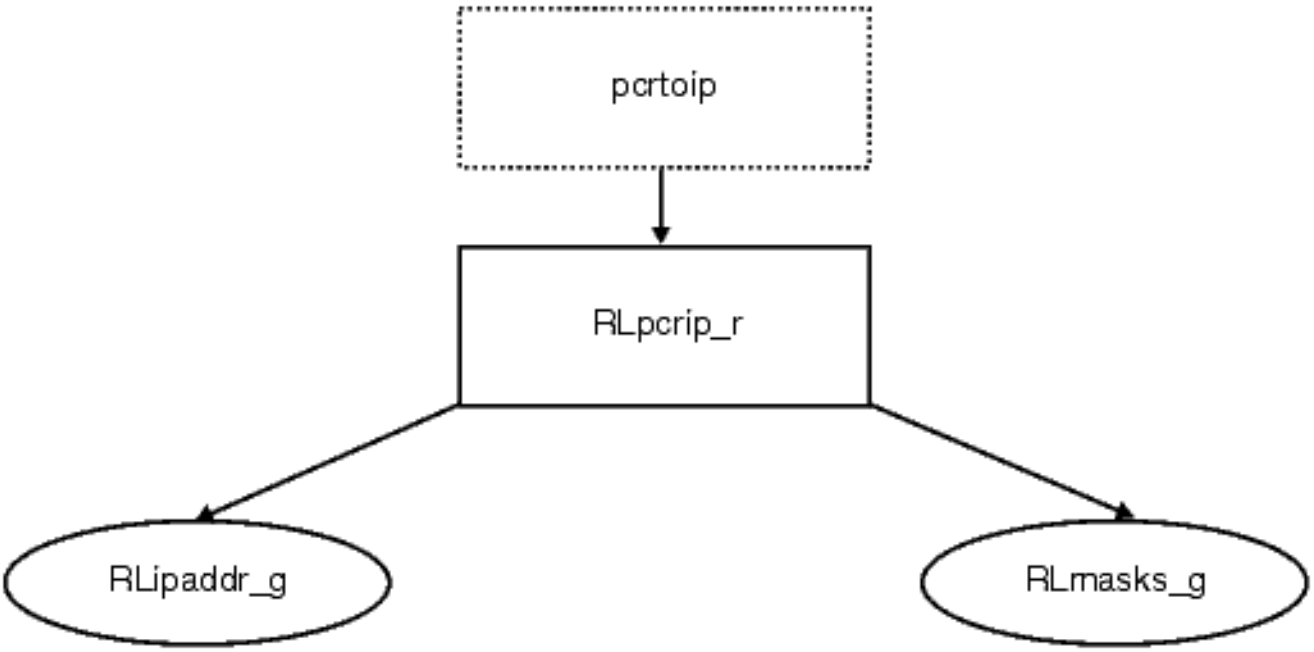


**Figure 1 Virtual Relation PCRTOIP**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FR |
| relation type | DBSTATIC |
| trigger function | PSpcrtoip |
| insert trigger | DBNO |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
PCRTOIP     relid = 3157  DBSTATIC   DBACC_OPV   DBNOTODD  FR      NULL


    pcr_name    DMPCRNAME    (struct)  <--- key
        pcr_id      DMUNS8       (ushort: 8)
        qualA       DMUNS8       (ushort: 8)
        qualB       DMUNS8       (ushort: 8)
        qualC       DMUNS8       (ushort: 8)
    indx_addr1  DMUSHORT     (ushort)
    indx_addr2  DMUSHORT     (ushort)
```

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```
     indx_addr3  DMUSHORT     (ushort)
     indx_addr4  DMUSHORT     (ushort)
     indx_addr5  DMUSHORT     (ushort)
     subnet_mask1  DMULONG      (ulong)
     subnet_mask2  DMULONG      (ulong)
     subnet_mask3  DMULONG      (ulong)
     subnet_mask4  DMULONG      (ulong)
     subnet_mask5  DMULONG      (ulong)
         User, Compacted and Stored Tuple Layout    PCRTOIP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+==========  pcr_name ==========+===============|
    |               |              |               |               |
  0 |     pcr_id    |     qualA    |     qualB     |     qualC     |
    |===============+==============+===============+===============|
    |                              |                               |
  4 |           indx_addr1         |           indx_addr2          |
    |---------------+--------------+---------------+---------------|
    |                              |                               |
  8 |           indx_addr3         |           indx_addr4          |
    |---------------+--------------+---------------+---------------|
    |                              |                               |
 12 |           indx_addr5         |*******************************|
    |---------------+--------------+---------------+---------------|
    |                                                              |
 16 |                          subnet_mask1                        |
    |---------------+--------------+---------------+---------------|
    |                                                              |
 20 |                          subnet_mask2                        |
    |---------------+--------------+---------------+---------------|
    |                                                              |
 24 |                          subnet_mask3                        |
    |---------------+--------------+---------------+---------------|
    |                                                              |
 28 |                          subnet_mask4                        |
    |---------------+--------------+---------------+---------------|
    |                                                              |
 32 |                          subnet_mask5                        |
    |---------------+--------------+---------------+---------------|
       ( 36 bytes )


domain alPCRTOIP  struct  (3 sub-attributes)
         pcr_name    .0fake       (struct)
             pcr_id      .2.fake      (ushort)
             qualA       .3.fake      (ushort)
             qualB       .4.fake      (ushort)
             qualC       .5.fake      (ushort)
         indx_addr   .16.fake     (array [ 5 ] of unsigned short )
         subnet_mask  .17.fake     (array [ 5 ] of unsigned long )

                     Structure Layout     alPCRTOIP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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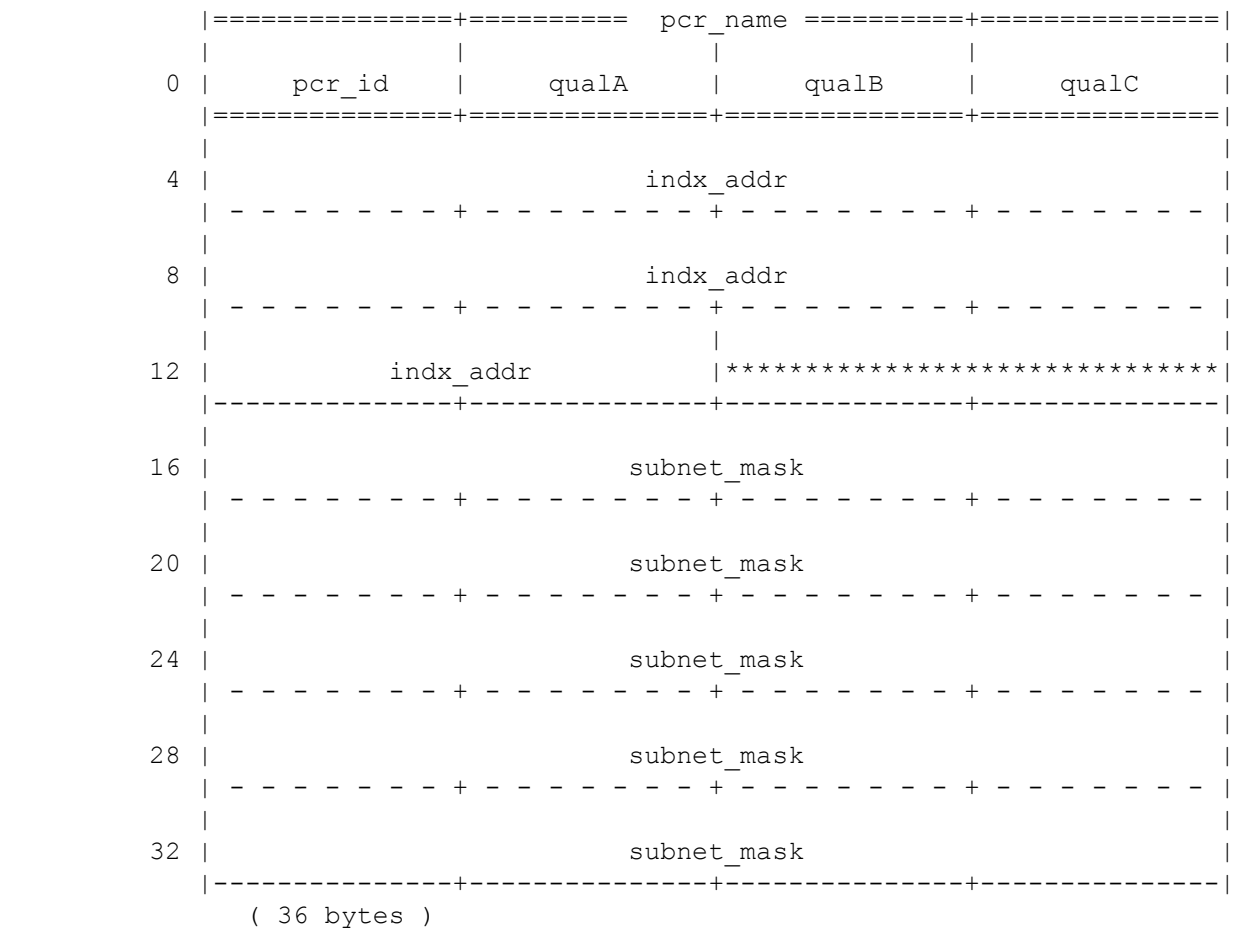


## 4. Population rules for RLpcrtoip

### Relation Description

Processor To IP Assignment Relation

This relation is used to hold from 1 to 5 IP addreses for a specific 5ESS(R)-2000 switch processor. The processor may be a physical or logical processor. One IP address is assigned to each SM for any 5ESS(R)-2000 switch performing IP processing.

**Attribute:**

pcr_name

**Fullname:**

Processor Name

**Attribute Description:**

Processor identification number and its associated qualifiers based on processor ID.

**Attribute:**

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indx_addr[*]

**Fullname:**

IP Address Index

**Attribute Description:**

Index for the IP address[*] assigned to the processor.

**Attribute:**

subnet_mask[*]

**Fullname:**

Subnetwork Mask

**Attribute Description:**

The subnetwork mask associated with the IP address[*].

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# PCS_HLR

## 1. Description

This WCTX relation contains Home Location Register (HLR) subscriber data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3072 |
| expected number of tuples | 1200 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution type | FP |
| relation type | DBSTATIC |
| ks key store | AUTO |
| corcable | DBYES |
| spare | 32L |

## 3. Field Layout

```
PCS_HLR     relid = 2225  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     pcs_idx     DMPCS_IDX    (ushort: 12)     <--- key
 (a) handset_st  DMHANDST     (enum: 1)
 (b) mwi         DMBOOL       (enum: 1)
 (c) ssd_flg     DMBOOL       (enum: 1)
     count       DMUNS6       (ushort: 6)
     pcsssda     DMUCHR8      (array [ 8 ] of unsigned char )
     pcsssdb     DMUCHR8      (array [ 8 ] of unsigned char )
     vlr_id      DMVLRID      (struct)
         amcode      DMUNS16      (ushort)
         module      DMSM         (ushort: 8)
     alert_id    DMALERTID    (struct)
         alrt_phse   DMUNS6       (ushort: 6)
         alrt_val    DMUNS12      (ushort: 12)
         User, Compacted and Stored Tuple Layout    PCS_HLR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       | | | | |           |   |               |
  0 |        pcs_idx        |a|b|c|*|   count   |***|    pcsssda    |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                           pcsssda                             |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                 |             |
  8 |                    pcsssda                      |    pcsssdb  |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                           pcsssdb                             |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                 |             |
 16 |                    pcsssdb                      |*************|
    |===============+===========  vlr_id ===========+===============|
    |                               |                 |             |
 20 |             amcode            |     module      |*************|
    |===============+===========  alert_id ==========+===============|
```

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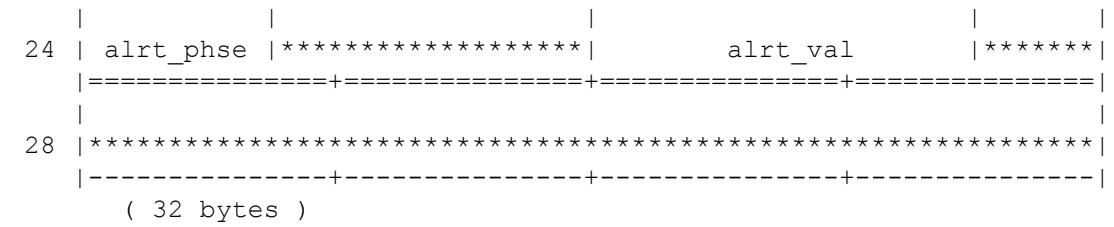


## 4. Population Rules for RLpcs_hlr

**Relation Description**
This WCTX relation contains Home Location Register (HLR) subscriber data.

This relation contains subscriber data common to the Home Location Register (HLR). This relation has corcable fields relating to status of the handset, message waiting indicator calling count and Shared Secret Data (SSD).

**Attribute: pcs_idx**

**Fullname:** Index into the hlr data

**Attribute Description** This is the key for the relation. Index into the HLR.

**Attribute: handset_st**

**Fullname:** Handset state

**Attribute Description** It indicates the state of the handset (pcsactive/pcsinactive).

**Attribute: vlr_id**

**Fullname:** Visitor Location Registration IDentifier

**Attribute Description** This is the VLR ISDN Number that identify the VLR where a subscriber is registered.

**Attribute: alert_id**

**Fullname:** Alert Identifier

**Attribute Description** Alert Identifier specifies alert phase and alert value.

**Attribute: mwi**

**Fullname:** Message waiting indicator

**Attribute Description** Message waiting indicator is a lamp on the handset that is illuminated when subscriber has a message.

**Attribute: count**

**Fullname:** Call history counter

**Attribute Description** This attribute is a modulo-64 count held in the SU. It is corced upon receipt of COUNT_UPDATE_REQ.

**Attribute: pcsssda**

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**Fullname:** Shared Secret Data - subset A.

**Attribute Description** This is the first part of SSD and is derived from the A-key for uss in authenticating the subscriber in both home and roaming environments.

**Attribute: pcsssdb**

**Fullname:** Shared Secret Data - subset B.

**Attribute Description** This is the second part of SSD and is derived from the A-key for uss in authenticating the subscriber in both home and roaming environments.

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# PCTRKTXC

## 1. Description

Trunk transmission parameters.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 24192 |
| expected tuples in relation | 216 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 38 |
| ks key store | AUTO |

## 3. Field Layout

```
PCTRKTXC    relid = 153   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     portname    DMPORT       (ushort)  <--- key, not stored
     fetyp       DMTLP        (enum: 4)
     netlp       DMTLP        (enum: 4)
 (a) fetlcls     DMUNS3       (ushort: 3)
 (b) trnktyp     DMTRNKTYP    (enum: 2)
         User and Compacted Tuple Layout   PCTRKTXC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             portname          |*******************************|
    |---------------+---------------+---------------+---------------|
    |       |       |     |   |                                     |
  4 | fetyp | netlp |  a  | b |*************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     fetyp       DMTLP        (enum: 4)
     netlp       DMTLP        (enum: 4)
 (a) fetlcls     DMUNS3       (ushort: 3)
 (b) trnktyp     DMTRNKTYP    (enum: 2)
           Stored Tuple Layout     PCTRKTXC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |       |       |     |   |                                     |
  0 | fetyp | netlp |  a  | b |*************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLpctrktxc

**Relation Description**
Trunk transmission parameters.

**Attribute: portname**

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**Fullname:** Trunk circuit name

**Attribute Description** 16-bit trunk circuit name. This identifies the trunk to which these attributes apply.

**Attribute: fetyp**

**Fullname:** Far end type

**Attribute Description** The far end type gives the transmission level point of the far-end office. This is used in domestic applications to determine the digital loss to be inserted toward the line on trunk-line connections. An exception to this is that ISDN lines, including OSPS attendants, never receive digital loss except for conference connections.

The following layout shows the loss value given as a function of fetyp.

| fetyp | TLPN3 | TLPN2 | TLPN1 | TLP0 | TLP1 | TLP2 | TLP3 | TLP4 | TLP5 |
|---|---|---|---|---|---|---|---|---|---|
| loss | 6 dB | 5 dB | 4 dB | 3 dB | 2 dB | 1 dB | 0 dB | 7 dB | 8 dB |

```
The recommended values for fetyp are:
trunks:
TLP0  - far-end is local or tandem
TLPN2 - far-end is analog toll
TLPN3 - far-end is digital toll
For analog trunks:
TLP3  - all far-end connections.
```

**Attribute: netlp**

**Fullname:** Near end transmission level point (TLP)

**Attribute Description** The near end TLP is used to determine loss only on trunk-trunk connections. The valid values of netlp are TLP0 and TLPN3. If both trunks have a netlp of TLPN3, no digital loss is inserted in either direction. If either trunk in the connection has netlp set to TLP0, loss may be inserted when connecting a digital trunk to an analog trunk. The amount of loss is a function of trnktyp and fetlcls. See fetlcls for details. The suggested value for netlp is TLP0 for all trunks in a local *5ESS*®-2000 switch and for trunks that carry only local traffic in a local/toll *5ESS*®-2000 switch. It is suggested that netlp be set to TLPN3 for all trunks in a toll *5ESS*®-2000 switch and for trunks that carry at least some toll traffic in a local/toll *5ESS*®-2000 switch.

**Attribute: fetlcls**

**Fullname:** far end toll class

**Attribute Description** end toll class is used in conjunction with trnktyp to determine loss only on trunk-trunk connections when either trunk has its netlp set to TLP0. Far end toll class is a numerical value, 0-5, that identifies toll class of the far end office.

```
5       - Denotes local or tandem.
          This should also be used for tie trunks
          when the 5ESS(R)-2000 switch is being used as a PBX.
1,2,3,4 - Denotes toll office.
          The following layout gives the digital loss that
          is inserted in trunk-trunk connections when
```

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either trunk has a 'netlp' other than TLPN3.

| FROM \ TO | local (fetlcls == 5) | | toll (fetlcls < 5) | |
|---|---|---|---|---|
| | analog | digital | analog | digital |
| local analog | 0 | 0 | 0 | 0 |
| local dig | 3 | 0 | 3 | 0 |
| toll analog | 0 | 0 | 0 | 0 |
| toll dig | 6 | 0 | 0 | 0 |

**Attribute: trnktyp**

**Fullname:** trunk type

**Attribute Description** Trunk type is used in conjunction with fetlcls in determining loss on trunk-trunk connections when either trunk has a netlp equal to TLP0. See fetlcls for details. Trunk type has two valid values: DIGITAL and ANALOG. It is recommended that trunks that use digital facilities throughout be set to DIGITAL and trunks that use analog facilities be set to ANALOG.

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# PDRMK_R

## 1. Description

This is a Root storage relation for RC_PDRMK.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2048 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTORAGE |
| head table size | 256 |
| data page size | 256 |
| foldtype | DBDEFAULT |
| permutation type | perm |

## 3. Field Layout

```
PDRMK_R     relid = 1701  DBSTORAGE  DBACC_HASH  DBPRAM    LP      RCDATA
     pdit        DMSHORT      (short)  <--- key
     remarks     DMGK16       (ulong: 16)
     calltype    DMCTXT7      (array [ 7 ] of char )
     rcdigs      DMCTXT7      (array [ 7 ] of char )  <--- key, compacted
           User Tuple Layout   PDRMK_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              pdit             |            remarks            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |                           calltype                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                               |               |
  8 |                     calltype                  |     rcdigs    |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                               |               |
 12 |                             rcdigs                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 16 |             rcdigs            |*******************************|
    |---------------+---------------+---------------+---------------|
      ( 20 bytes )
    pdit        DMSHORT      (short)  <--- key
    remarks     DMGK16       (ulong: 16)
    calltype    DMCTXT7      (array [ 7 ] of char )
    rcdigs      DMKBCD7      (array [ 4 ] of char )  <--- key, compacted
         Compacted Tuple Layout    PDRMK_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              pdit             |            remarks            |
```

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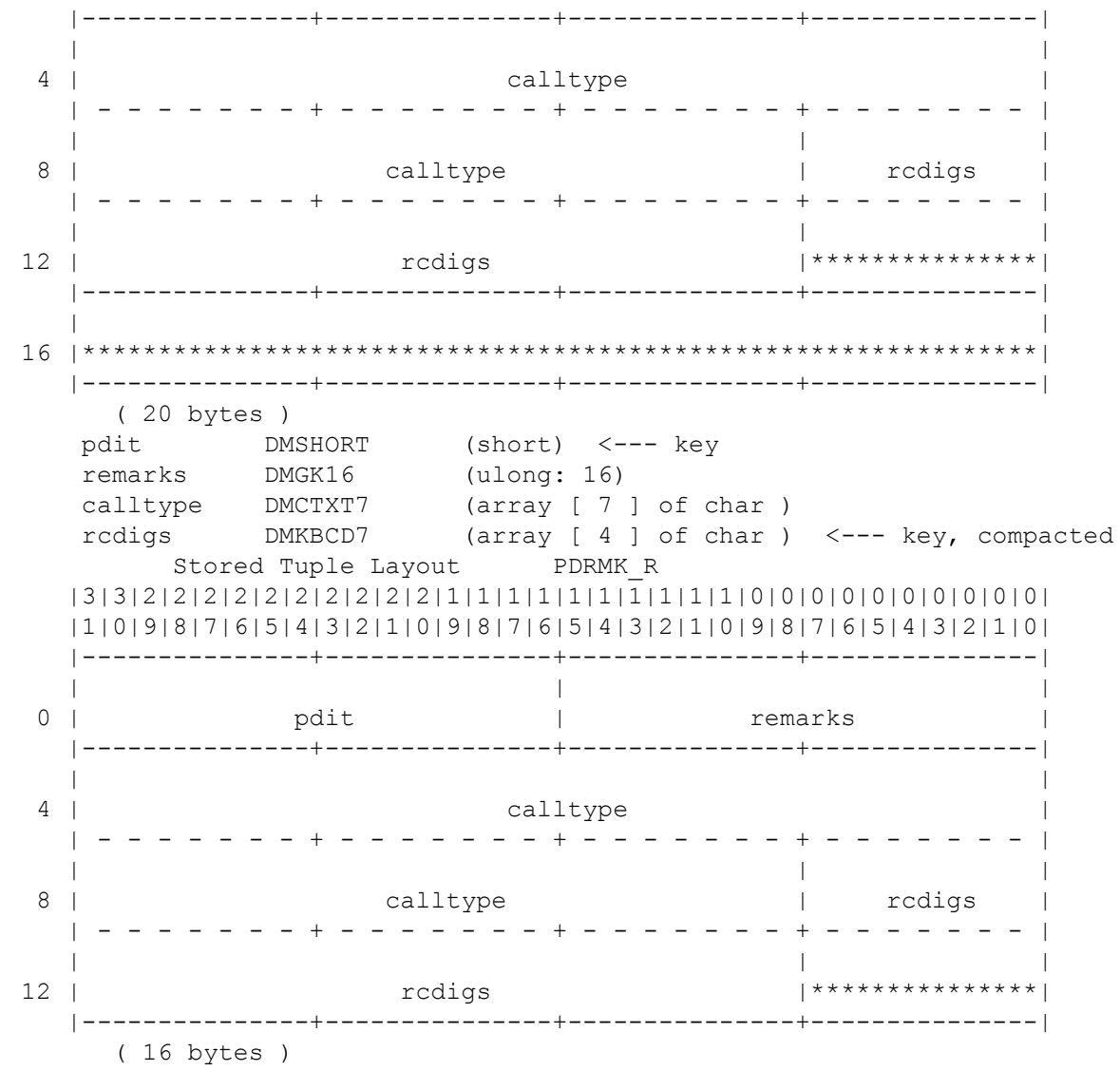


## 4. Population Rules for RLpdrmk_r

There are no population rules for this relation.

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# PDXUINFO

## 1. Description

This relation contains the information related to the SMPDXU unit.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| expected tuples in relation | 8 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
PDXUINFO    relid = 3183  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


    unit        DMUNITNO     (ushort: 8)       <--- key
 (a) trf_cnfg    DMXAIUCNFG   (enum: 3)
        User and Compacted Tuple Layout   PDXUINFO
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |     |                                         |
 0 |      unit     |  a  |*****************************************|
   |---------------+---------------+---------------+---------------|
      ( 4 bytes )


    unit        DMUNITNO     (ushort: 8)       <--- key
 (a) trf_cnfg    DMXAIUCNFG   (enum: 3)
          Stored Tuple Layout     PDXUINFO
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |     |                                         |
 0 |      unit     |  a  |*****************************************|
   |---------------+---------------+---------------+---------------|
      ( 2 bytes )
```

## 4. Population rules for RLpdxuinfo

### Relation Description

PCT Data Exchanger Unit (PDXU) information.

Maps the unit number of a PDXU to information about that PDXU.

**Attribute:**

unit

**Fullname:**

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PDXU unit number.

**Attribute Description:**

This is the unit number of the PDXU.

**Attribute:**

trf_cnfg

**Fullname:**

Traffic configuration.

**Attribute Description:**

This is the traffic configuration supported by the PDXU.

**Defines:**

```
/* NONE */
```

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# PEELCC

## 1. Description

This is the Peel Out for Calling Card (PEELCC) feature. RLpeelcc is designated for OSPS fast feature group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10 |
| expected number of tuples | 3 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
PEELCC      relid = 2924  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     label       DMCHAR6      (array [ 6 ] of char )
     propr_trans_ty  DMUNS10      (ushort: 10)
 (a) seq_call_att  DMUNS5       (ushort: 5)
 (b) propr_indet_al  DMBOOL       (enum: 1)
     po_annc_set  DMUNS10      (ushort: 10)
     oaff2       DMUNS6       (ushort: 6)
     propr_carr_grp  DMUNS8       (ushort: 8)
     propr_qry_to  DMUNS8       (ushort: 8)
     eras_dly_to  DMUNS8       (ushort: 8)
     interdig_to  DMUNS8       (ushort: 8)
     nodial_to   DMUNS8       (ushort: 8)
     oaff1       DMUNS8       (ushort: 8)
     oaff3       DMUNS8       (ushort: 8)
 (c) po_cc_id    DMUNS4       (ushort: 4)    <--- key
 (d) seq_call_msg  DMUNS4       (ushort: 4)
 (e) retries_count  DMUNS3       (ushort: 3)
 (f) multi_cards  DMBOOL       (enum: 1)
 (g) propr_14dig  DMBOOL       (enum: 1)
 (h) star_dlmtr  DMBOOL       (enum: 1)
 (i) pnd_dlmtr   DMBOOL       (enum: 1)
 (j) timing_type  DMBOOL       (enum: 1)
     oaff4       DMULONG      (ulong)
     oaff5       DMULONG      (ulong)
         User, Compacted and Stored Tuple Layout PEELCC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                             label                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                   |         | |
  4 |             label             |   propr_trans_ty  |    a    |b|
    |---------------+---------------+---------------+---------------|
    |                   |           |               |               |
  8 |    po_annc_set    |   oaff2   | propr_carr_grp|  propr_qry_to |
    |---------------+---------------+---------------+---------------|
```

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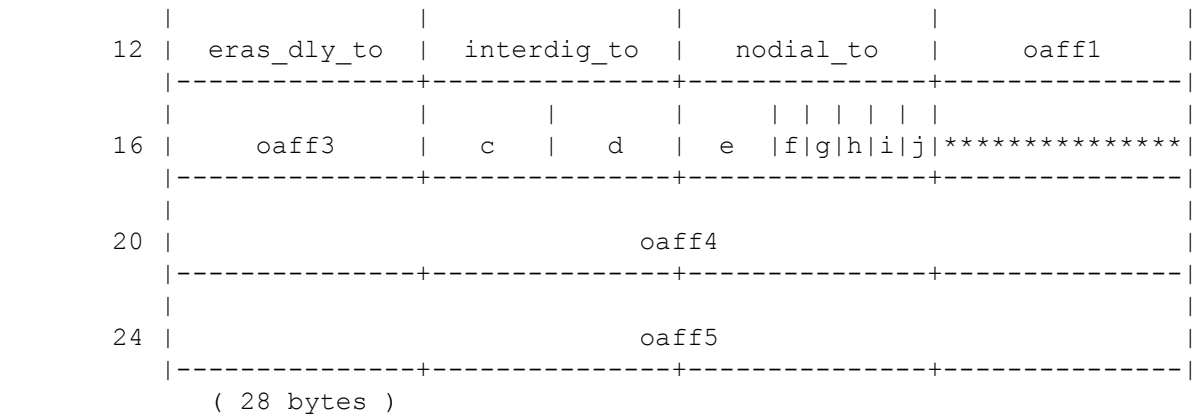


## 4. Population rules for RLpeelcc

### Relation Description

RLpeelcc will be used in 5E13 by the OSPS 800 Peel Out for Calling Card feature.
RLpeelcc is designated for OSPS fast feature group.

**Attribute:**
po_cc_id
**Fullname:**
key: peel out cc id
**Attribute Description:**
This attribute is used to determine 800 peel out for calling card characteristics.

**Attribute:**
propr_indet_al
**Fullname:**
indeterm handling
**Attribute Description:**
This attribute specifies the default value for an indeterminate card validation reply. A value of DBNO means deny "D" and a value of DBYES means allow "A". When a null value is entered, it will be stored as DBYES in the relation.

**Attribute:**
multi_cards
**Fullname:**
multiple cards
**Attribute Description:**
This attribute specifies whether or not cards other than 14 digits may be used.

**Attribute:**
propr_14dig

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**Fullname:**
14 digit card treatment
**Attribute Description:**
This attribute specifies whether or not card queries for 14-digit cards are sent to designated propriety database only. DBYES indicates that the treatment is "P" (proprietary), and DBNO indicates that the treatment is "C" (CardTable).

**Attribute:**
seq_call_msg
**Fullname:**
seq call messages
**Attribute Description:**
This attribute specifies the maximum number of completed sequence calls allowed.

**Attribute:**
seq_call_att
**Fullname:**
seq call attempts
**Attribute Description:**
This attribute specifies the maximum number of incomplete automated sequence calls allowed.

**Attribute:**
propr_carr_grp
**Fullname:**
carrier group ID
**Attribute Description:**
This attribute references to a list of carriers that accept the proprietary card associated with access number. The null value is stored as a 0 in the relation.

**Attribute:**
propr_qry_to
**Fullname:**
query timeout
**Attribute Description:**
This attribute indicates the length of time to wait for receipt of a proprietary card response. The null value is stored as a 0 in the relation.

**Attribute:**
propr_trans_ty
**Fullname:**
translation type
**Attribute Description:**
This attribute specifies that translation type is used in the

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LIDB format query or an indication to use existing card table.
For CardTable a value of 999 is stored in the relation.

**Attribute:**
star_dlmtr
**Fullname:**
star character
**Attribute Description:**
This attribute value determines whether a caller-entered "*" erases the dialed digits, or marks the end of digit collection. DBYES indicates that the value is entered as "E" (ERASE), and DBNO indicates that the value is entered as "D" (DELIMITER).

**Attribute:**
pnd_dlmtr
**Fullname:**
pound character
**Attribute Description:**
This attribute value determines whether a caller-entered "#" erases the dialed digits, or marks the end of digit collection. DBYES indicates that the value is entered as "E" (ERASE), and DBNO indicates that the value is entered as "D" (DELIMITER).

**Attribute:**
retries_count
**Fullname:**
allow retries counter
**Attribute Description:**
This attribute specifies the number of retries allowed for entering either the forward number or a card number, excluding the first try.

**Attribute:**
timing_type
**Fullname:**
timing scheme
**Attribute Description:**
This attribute specifies the scheme for the initial digit and interdigit timing. DBYES indicates that the timing type is standard ACCS "A", and DBNO indicates that the timing type is uniform interdigit "U".

**Attribute:**
eras_dly_to
**Fullname:**
erase reprompt delay
**Attribute Description:**
This attribute specifies the delay time between receiving the erasure character and playing a reprompt. The null value is stored as

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255 in the relation.

**Attribute:**
interdig_to
**Fullname:**
interdigit timeout
**Attribute Description:**
This attribute specifies the time for setting an interdigit timer. The null value will be stored as 0 in the relation.

**Attribute:**
nodial_to
**Fullname:**
nodial timeout
**Attribute Description:**
This attribute specifies the time for setting a bailout timer. The null value will be stored as 0 in the relation.

**Attribute:**
oaff1
**Fullname:**
unsigned short attribute.
**Attribute Description:**
This attribute is not used by the OSPS 800 Peel Out for Calling Card feature and thus will always be zero (0).

**Attribute:**
po_annc_set
**Fullname:**
announcement set
**Attribute Description:**
This attribute specifies the alternate announcement code. The null value will be stored as 1023 in the relation.

**Attribute:**
oaff2
**Fullname:**
unsigned short attribute.
**Attribute Description:**
This attribute is not used by the OSPS 800 Peel Out for Calling Card feature and thus will always be zero (0).

**Attribute:**
label
**Fullname:**
proprietary card label
**Attribute Description:**

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This attribute specifies the proprietary card label for the OSPS 800 Peel Out for Calling Card feature.

**Attribute:**
oaff3
**Fullname:**
unsigned short attribute.
**Attribute Description:**
This attribute is not used by the OSPS 800 Peel Out for Calling Card feature and thus will always be zero (0).

**Attribute:**
oaff4
**Fullname:**
unsigned short attribute.
**Attribute Description:**
This attribute is not used by the OSPS 800 Peel Out for Calling Card feature and thus will always be zero (0).

**Attribute:**
oaff5
**Fullname:**
unsigned short attribute.
**Attribute Description:**
This attribute is not used by the OSPS 800 Peel Out for Calling Card feature and thus will always be zero (0).

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# PF_CPSL

## 1. Description

Associates a customer premise equipment port with a sleeve port.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 2048 |
| data page size | 1024 |
| page level | 0 |

## 3. Field Layout

```
PF_CPSL     relid = 525   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     cpe_port    DMGPORT      (struct)  <--- key
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     slv_port    DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout    PF_CPSL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+==========  cpe_port ==========+===============|
    |                                 |               |               |
  0 |             member              |***************|     module    |
    |===============+==========  slv_port ==========+===============|
    |                                 |               |               |
  4 |             member              |***************|     module    |
    |===============+===============+===============+===============|
       ( 8 bytes )
```

## 4. Population Rules for RLpf_cpsl

### Relation Description

Premises equipment port with a sleeve port.

Associates a customer premises equipment port with a sleeve port.

### Attribute: cpe_port

**Fullname:** global port id of customer premises equipment port used in PF feature

**Attribute Description** Global port id of customer premises equipment port used in PF feature. This attribute is divided into subattributes port.mrmber and port.module. The structure members are:

1. member (DMport): Port name of a trunk.
2. module (DMmodule): The IM number that this port terminates on.

Range of values:

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```
1.  member:  unsigned short (1 to 65535)
2.  module:  unsigned short (1 to 255)
    Default value: No default value.

    Dependency:
    1) Verify existence of tuple in RLfc_trunk for this key port.
    2) Verify existence of tuple in RLfc_porttyp for
       this key port with following attribute values:
            rlFC_PORTTYP.servclass = FC_PFCPE
            rlFC_PORTTYP.lptyp     = PCCPEOTRK
            rlFC_PORTTYP.porttype  = TM_TRK
            rlFC_PORTTYP.testpont  = DBNO
            rlFC_PORTTYP.els_loss  = DBNO.
```

**Attribute: cpe_port.member**

**Fullname:** port member

**Attribute Description** Customer premises equipment port member.

**Attribute: cpe_port.module**

**Fullname:** port module

**Attribute Description** Customer premises equipment port module.

**Attribute: slv_port**

**Fullname:** global port id of PFA sleeve port

**Attribute Description** Global port id of PFA sleeve port. This attribute is divided into subattributes port.member and port.module. The structure members are:

```
1.  member (DMport):  Port name of a trunk.
2.  module (DMmodule):  The IM number that this port terminates on.

Range of values:
1.  member:  unsigned short (1 to 65535)
2.  module:  unsigned short (1 to 255)
    Default value: No default value.

    Dependency:
    1) Verify existence of tuple in RLfc_trunk.
    2) Verify existence of tuple in RLfc_porttyp for
       this key port with the following attribute values:
            rlFC_PORTTYP.servclass = FC_PFSLV
            rlFC_PORTTYP.porttype  = TM_TRK
            rlFC_PORTTYP.testport  = DBNO
            rlFC_PORTTYP.els_loss  = DBNO.
```

**Attribute: slv_port.member**

**Fullname:** port member

**Attribute Description** pfa sleeve port member.

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**Attribute: slv_port.module**

**Fullname:** port module

**Attribute Description** pfa sleeve port module.

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# PF_GP

## 1. Description

Associates a private facility access group to its trunk and signaling characteristics.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10000 |
| expected tuples in relation | 173 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| foldtype | DBGC31 |
| density | 78 |

## 3. Field Layout

```
PF_GP       relid = 526   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     dial_code   DMDC5        (struct)  <--- key
         dcnt5       DMUNS3       (ushort: 3)
         digits      DMDIG5       (array [ 5 ] of char )
     pf_gpid     DMFACID      (ushort)  <--- key
     parm_id     DMUNS16      (ushort)
     dest_x      DMDESTIDX    (ushort: 12)
 (a) acct_len    DMUNS4       (ushort: 4)
     ri          DMRTEIDX     (ushort: 12)
 (b) rout_typ    DMROUTE      (enum: 4)
     watsop_ri   DMRTEIDX     (ushort: 12)
     ath_len     DMUNS4       (ushort: 4)
     lead_digs   DMDIG3       (array [ 3 ] of char )
 (c) ath_prompt  DMMC_TONE    (enum: 3)
 (d) pfgptyp     DMBRTYP      (enum: 2)
 (e) lead_dcnt   DMUNS2       (ushort: 2)
 (f) q_req       DMBOOL       (enum: 1)
 (g) ets_trk     DMBOOL       (enum: 1)
 (h) ath_alwd    DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout  PF_GP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+========== dial_code ==========+===============|
    |      |         |                                               |
  0 |dcnt5|*********|                    digits                     |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                   |                           |
  4 |              digits               |*******************************|
    |===============+===============+===============+===============|
    |                                   |                           |
  8 |             pf_gpid               |             parm_id           |
    |---------------+---------------+---------------+---------------|
    |                         |       |                         |     |
 12 |          dest_x         |   a   |           ri            |  b  |
    |---------------+---------------+---------------+---------------|
    |                         |       |                               |
```

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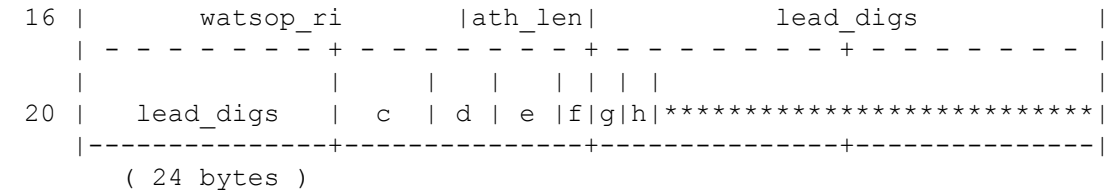


## 4. Population Rules for RLpf_gp

**Relation Description**
Associates a private facility access group to its trunk and signaling characteristics.

**Attribute: pf_gpid**

**Fullname:** Private Facility group id.

**Attribute Description** Dialed access code digits a string of up to 5 digits.
There must be one and only one Master tuple per pf_gpid. If there is a tuple with RLpf_gp.dial_code = other than M, there must be a tuple such that RLpf_gp.dialcode = M for that pf_gpid. The parm_id is 0 and there is not a tuple in RLpf_parm associated with the master tuple. The rout_typ is equal to RTE_NULL and the other attributes in RLpf_gp are set to 0. The master tuple is only used for the delete case to delete the pf_gpid. When the master dialcode is specified all the tuples associated with the specified pf_gpid will be deleted. If the entire group is not to be deleted only the pf group and the desired dial_code need to be entered.

**Attribute: dial_code**

**Fullname:** dialed access code digits

**Attribute Description** Dialed access code digits.

**Attribute: dial_code.dcnt5**

**Fullname:** Digit count.

**Attribute Description** Digit count.

**Attribute: dial_code.digits**

**Fullname:** Digits.

**Attribute Description** Digits or M for master tuple.

**Attribute: dest_x**

**Fullname:** Destination index.

**Attribute Description** Destination index.

```
If = 0 then,
        verify existence of tuple in RLpf_parm with
        key rlPF_PFPARM.parm_id  = rlPF_GP.parm_id,
        rlPF_GP.rout_typ = RTE_MC
Else,
        verify existence of tuple in RLpf_parm with
        key rlPF_PFPARM.parm_id  =  rlPF_GP.parm_id,
        rlPF_PFPARM.dcol_typ != PDC_POTS.
```

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**Attribute: parm_id**

**Fullname:** Parameters Id.

**Attribute Description** Indicates the ID of the set of parameters applicable for this pf_gpid and dialed code. This is the key to RLpf_parm relation which defines the parameters.
Verify that a tuple exists in RLpf_parm such that: key rlPF_PARM.parm_id = rlPF_GP.parm_id.

**Attribute: ri**

**Fullname:** Route index.

**Attribute Description** Route index used to route the call.

```
IF rout_typ = RTE_MC, then verify existence of
tuple for this key route index in RLrt_mcrt.
ELSE verify existence of tuple for this key route
index in RLrt_routing.
```

**Attribute: rout_typ**

**Fullname:** Route Type.

**Attribute Description** Indicates the type of route index attribute ri is.

```
The rout_typ must be equal to RTE_MC,
        if the corresponding RLpf_parm.dcol_typ
        is equal to PDC_POTS.
```

**Attribute: watsop_ri**

**Fullname:** Watsop ri

**Attribute Description** To be deleted.

**Attribute: q_req**

**Fullname:** Queuing request.

**Attribute Description** Modular queuing for outgoing facilities request.
If q_req is DBYES then RLPF_PARM.dcol_type must be PDC_FIXED, PDC_VAR, PDC_POTS or PDC_XY and ovlp_opls must be DBNO, where RLPF_PARM is keyed by parm_id.

**Attribute: ets_trk**

**Fullname:** Electronic tandem switch (ETS) trunk.

**Attribute Description** This flag indicates whether or not this is an electronic tandem switch (ETS) trunk for the call forwarding over private facilities (CFPF) CFPF/ETS forwarding case.
If ets_trk = DBYES then:

```
a) RLpf_parm.dcol_typ using parm_id as key must be PDC_0.
b) the trunk group to which ri routes must be a cut-through trunk.
   (that is, for rout_type = RTE_MC (RTE_HUNT),
   use ri as key for RLrt_mcrt(RLrt_routing) and retrieve grpnum
   (portgrp.grpnum): use grpnum as key for RLgroup_port and for
   each member in RLgroup_port with grpnum (portgrp.grpnum) as key
   having portgrp.grptype = TM_TRK, retrieve port.member and
```

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```
port.module: for each retrieved port.member and port.module as
keys for RLfc_trunk, cut_thru must be DBYES)
```

Note: If ets_trk is DBYES, this implies that auto-ARS is on the destination end of the trunk.

**Attribute: ath_alwd**

**Fullname:** Authorization allowed.

**Attribute Description** Indicates whether or not the destination end of the trunk is expecting an authorization (ATH) code to be dialed.

```
1) If ath_alwd is DBYES then
a) ets_trk must be DBYES
b) ath_len must be > 0
c) ath_prompt must not be TN_NONE
```

***NOTE:*** If ath_alwd = DBYES, this implies the ATH code feature is assigned to the destination end of the trunk.

**Attribute: ath_len**

**Fullname:** Authorization length.

**Attribute Description** This is the length of the authorization code to be collected and saved for future CFPF outpulsing.

The length must be greater than zero if ath_alwd is set to DBYES, otherwise it must be zero.

**Attribute: ath_prompt**

**Fullname:** Authorization prompt.

**Attribute Description** This indicates the type of tone that should be applied to prompt the user for the ATH code.

If this is not set to the default, then ath_alwd must be set to DBYES.

**Attribute: acct_len**

**Fullname:** Account length.

**Attribute Description** This attribute indicates the length of the lead_digs[] + account (ACCT) code digit sequence.

```
1) If acct_len > 0, ets_trk must be DBYES
2) acct_len must be greater than or equal to lead_dcnt.
```

Note: If acct_len is greater than zero, this implies that the ACCT code feature is assigned on the destination end of the trunk.

**Attribute: lead_dcnt**

**Fullname:** Lead digit count.

**Attribute Description** This attribute indicates the length of the lead ACCT code digit sequence.

```
1) lead_dcnt must always be less than or equal to acct_len
2) there must be lead_dcnt non-null digits specified in lead_digs[]
```

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**Attribute: pfgptyp**

**Fullname:** Private Facilities group type.

**Attribute Description** Indicates if the PFA group is circuit-switched voice or circuit-switched data.

**Attribute: lead_digs**

**Fullname:** Lead digits.

**Attribute Description** This array is used to store the lead account code digit sequence.

```
There must be a non-null entry for each
digit allowed by lead_dcnt.  Digits are left
justified, padded with nulls on the right.
      If lead_dcnt = 0
         lead_digs[0-2] must be \0
      If lead_dcnt > 0
         lead_digs[0] must in { '#', '*', '0' - '9' }
         lead_digs[1-2] must in { NULL, '0' - '9' }
```

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# PF_PARM

## 1. Description

This relation associates a private facility access parameter id to a set of parameters.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |

## 3. Field Layout

```
PF_PARM     relid = 527   DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     parm_id      DMUNS16       (ushort) <--- key
     n1_dgt       DMDIGIT       (char)
     n2_dgt       DMDIGIT       (char)
     n3_dgt       DMDIGIT       (char)
     n4_dgt       DMDIGIT       (char)
     num_dgt      DMUNS6        (ushort: 6)
     dcol_ovlp    DMUNS6        (ushort: 6)
     pause3       DMBFPAUSE     (uchar: 4)
     max_dgt      DMUNS6        (ushort: 6)
     min_dgt      DMUNS6        (ushort: 6)
     pause1       DMBFPAUSE     (uchar: 4)
     nth_dgt      DMUNS6        (ushort: 6)
     xnum_dgt     DMUNS6        (ushort: 6)
     pause2       DMBFPAUSE     (uchar: 4)
     ynum_dgt     DMUNS6        (ushort: 6)
     sig_t        DMPFTSIG      (ushort: 4)
 (a) intdig_t     DMUNS4        (ushort: 4)
 (b) save_acd     DMBOOL        (enum: 1)
 (c) dial_tn2     DMBOOL        (enum: 1)
 (d) dcol_typ     DMPFDCOL      (enum: 3)
 (e) ovlp_opls    DMBOOL        (enum: 1)
 (f) sig_conv     DMBOOL        (enum: 1)
 (g) tt_acd       DMBOOL        (enum: 1)
         User, Compacted and Stored Tuple Layout    PF_PARM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |            parm_id            |     n1_dgt    |     n2_dgt    |
    |---------------+---------------+---------------+---------------|
    |               |               |           |           |       |
  4 |     n3_dgt    |     n4_dgt    |  num_dgt  | dcol_ovlp | pause3|
    |---------------+---------------+---------------+---------------|
    |           |           |       |           |           |       |
  8 |  max_dgt  |  min_dgt  | pause1|  nth_dgt  |  xnum_dgt | pause2|
    |---------------+---------------+---------------+---------------|
    |           |       |       | | |     | | | |                   |
```

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```
 12 |  ynum_dgt | sig_t |   a   |b|c|  d  |e|f|g|******************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population rules for RLpf_parm

### Relation Description

private facility parameters.
Associates a private facility access
parameter id to set of parameters.
The following is a list of valid service classes
for port assigned this feature:

```
LINES
-----
FC_INDVDL
FC_ATTENDANT
FC_4WIRE_INDV
FC_PBX
FC_ISDN
FC_ISATND

TRUNKS
------
FC_PF
FC_PFLASH
FC_PFITT
FC_PFCPE
```

**Attribute:**
parm_id
**Fullname:**
parameter identification.
**Attribute Description:**
ID that associates a private facility access parameter id to set of parameter (key).

**Attribute:**
n1_dgt
**Fullname:**
first value of N'th digit.
**Attribute Description:**
First value of N'th digit.

**Attribute:**
n2_dgt
**Fullname:**
second value of N'th digit.
**Attribute Description:**
Second value of N'th digit.

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**Attribute:**
n3_dgt
**Fullname:**
Third value of Nth digit
**Attribute Description:**
Third value of Nth digit

**Attribute:**
n4_dgt
**Fullname:**
Fourth value of N'th digit
**Attribute Description:**
Fourth value of N'th digit

**Attribute:**
dcol_typ
**Fullname:**
digit collection type.
**Attribute Description:**
Depending on the value of this attribute, other attributes must set to valid specified values.

**Attribute:**
save_acd
**Fullname:**
save access code.
**Attribute Description:**
Indicates if the access code is to be saved.

**Attribute:**
dial_tn2
**Fullname:**
second dial tone.
**Attribute Description:**
indicates if second dial tone is to be given.

**Attribute:**
num_dgt
**Fullname:**
number of digits to collect.
**Attribute Description:**
Number of digits to collect including access code.
The allowed maximum value is 18 if the IDDD15 secured feature (SFID223) has been purchased and turned on, otherwise is 15.

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**Attribute:**
ovlp_opls
**Fullname:**
overlap outpulsing.
**Attribute Description:**
Indicates if overlap outpulsing should be attempted.

**Attribute:**
dcol_ovlp
**Fullname:**
digits to collect before overlap.
**Attribute Description:**
Number of digits to collect before attempting overlap sending.
The allowed maximum value is 18 if the IDDD15 secured feature (SFID223)
has been purchased and turned on, otherwise is 15.

**Attribute:**
sig_conv
**Fullname:**
signal conversion.
**Attribute Description:**
Signal conversion may be needed on this route.
IF DBYES, dcol_typ = PDC_0
If sig_conv = DBYES, and PF_GP.pfgptyp = CSD, then
sig_t must not equal 0.
This is reserved for Recorded Telephone Dictation and
is not supported by CSD.
The following dependency poprule is recommended but not required.
If sig_conv=DBYES and sig_t=0 then the trunk group(s) pointed
to must have a FC_PFCPE servclass.

```
for every tuple in RLpf_parm
where (RLpf_parm.sig_conv equals DBYES and
        RLpf_parm.sig_t equals 0)
begin
        must find all tuples in RLpf_gp on all
        where (RLpf_gp.parm_id equals RLpf_parm.parm_id)
        when found
        begin
                RLpf_gp.rout_typ must equal RTE_HUNT
                must find at least 1 tuple in RLrt_routing
                where (RLpf_gp.ri equals RLrt_routing.route_x)
                when found
                begin
                        must find at least 1 tuple in RLrctgrprk
                        where (RLrctgrprk.portgrp.grpnum equals
                                RLrt_routing.portgrp.grpnum)
                        begin
                              RLrctgrprk.servclass must equal FC_PFCPE
                        end
                end
        end
```

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```
        end
```

**Attribute:**
```
        sig_t
```
**Fullname:**
```
        signal timing.
```
**Attribute Description:**
```
        Signal conversion release timing.
        If sig_t = 0 and PF_GP.pfgptyp = CSD, then sig_conv
        must not equal DBYES.
```

**Attribute:**
```
        max_dgt
```
**Fullname:**
```
        maximum digits.
```
**Attribute Description:**
```
        Maximum number of digits including access code, to collect.
        The allowed maximum value is 18 if the IDDD15 secured feature (SFID223)
        has been purchased and turned on, otherwise is 15.
```

**Attribute:**
```
        min_dgt
```
**Fullname:**
```
        minimum digit.
```
**Attribute Description:**
```
        Minimum number of digits including access code, to collect.
        The allowed maximum value is 18 if the IDDD15 secured feature (SFID223)
        has been purchased and turned on, otherwise is 15.
```

**Attribute:**
```
        nth_dgt
```
**Fullname:**
```
        N'th digit.
```
**Attribute Description:**
```
        Position of N'th digit.
        The allowed maximum value is 18 if the IDDD15 secured feature (SFID223)
        has been purchased and turned on, otherwise is 15.
```

**Attribute:**
```
        xnum_dgt
```
**Fullname:**
```
        X - number of digits.
```
**Attribute Description:**
```
        X- number of digits to collect based on N'th digit.
        The allowed maximum value is 18 if the IDDD15 secured feature (SFID223)
        has been purchased and turned on, otherwise is 15.
```

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**Attribute:**
ynum_dgt
**Fullname:**
Y - number of digits.
**Attribute Description:**
Y- number of digits to collect based on N'th digit.
The allowed maximum value is 18 if the IDDD15 secured feature (SFID223) has been purchased and turned on, otherwise is 15.

**Attribute:**
intdig_t
**Fullname:**
inter digit.
**Attribute Description:**
Inter digit collection timing.

**Attribute:**
pause1
**Fullname:**
initial pause.
**Attribute Description:**
This is a digit pause used to delay digit outpulsing for a variable length of time until the termination side of call forwarding over private facilities (CFPF) electronic tandem switching (ETS) trunk is ready to collect digits.

**Attribute:**
pause2
**Fullname:**
1st intermediate pause.
**Attribute Description:**
This is the first intermediate pause required for CFPF/ETS segmented signaling. IT is used to cause a delay between the account code and DN digit sequence for the non-collocated invocation of CFPF.

**Attribute:**
pause3
**Fullname:**
second intermediate pause.
**Attribute Description:**
This is the second intermediate pause required for CFPF/ETS segmented signaling. Itis used to cause a delay between the DN and authorization code digit sequence for the non-collocated invocation of CFPF.

**Attribute:**
tt_acd
**Fullname:**
Tandem Tie Access Code.

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**Attribute Description:**

Indicates if the access code and the Trunk Network Number are to be recorded in the AMA record for Tie Trunk calls.

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# PF_PORT

## 1. Description

Private facilities access feature per-port data. This relation is common for lines and trunks.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65531 |
| expected number of tuples | 117 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| density | 26 |
| foldtype | DBGC31 |

## 3. Field Layout

```
PF_PORT     relid = 557   DBSTATIC   DBACC_HASH  DBPRAM    LPFPFG  RCMAP
     lport       DMLPORT      (ushort: 16)  <--- key
     pf_gpid     DMFACID      (ushort)
     pfdtgpid    DMFACID      (ushort)
 (a) lpt_type    DMLPT_TYPE   (enum: 2)  <--- key
 (b) q_alwd      DMBOOL       (enum: 1)
 (c) qpriority   DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout    PF_PORT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              lport            |            pf_gpid            |
    |---------------+---------------+---------------+---------------|
    |                               |   | | |                       |
  4 |            pfdtgpid           | a |b|c|***********************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLpf_port

**Relation Description**
Private facilities access feature per-port data.

This relation is common for lines and trunks.
SPECIAL ENTRY FOR GROUP PARAMETER ASSOCIATED WITH BFG
---
Business and residential customer service (BRCS) feature grouping, capability G268, is intended to improve recent change response time and provide for switching module (SM) memory reduction. It permits the creation of groups of BRCS features and parameters, and the utilization of these groups by call processing. BRCS feature group (BFG) group parameter relations will not be created, but will be populated in existing lport keyed relations.

Identifying BFG group parameters will be accomplished via use of an lpt_type key field set to LPT_BFG and use of the lport key field to contain the BFG group ID. This concept is used to avoid creation of new database relations.

Distribution: Group partitioned (if lpt_type=LPT_BFG) or SM partitioned

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This relation now has two types of tuples.

1. The first type is the existing tuples which are SM partitioned and remain unchanged. They are keyed by lpt_type != LPT_BFG and lport, and no change has been made to this key or data.

2. The second type is the BFG group partitioned tuple associated with features in a BFG, having lpt_type=LPT_BFG, and the bfgid populated in the lport field.

For BFG purposes, RLpf_port is a group type. Therefore, only BFG lport tuple is permitted for the lport assigned to a BFG. Individual lport tuples may not be created for BFG assigned lports (when the feature is in the BFG).
Note: There is a limit of 30 BRCS features for each bfgid.

**Attribute: lport**

**Fullname:** Logical port

**Attribute Description** Logical port of the user being assigned the BRCS features. If lpt_type != LPT_BFG, RLpf_port.lport must equal RLfc_line.lport (if a line) or RLfc_trunk.lport (if a trunk). The keys for RLfc_line & RLfc_trunk are:

```
RLfc_line.port = RLlpt_pt(RLpf_port.lport,RLpf_port.lpt_type).port
RLfc_line.party = RLlpt_pt(RLpf_port.lport,RLpf_port.lpt_type).party
RLfc_trunk.port = RLlpt_pt(RLpf_port.lport,RLpf_port.lpt_type).port
If lpt_type = LPT_BFG, then
RLpf_port.lport contains a BFG group ID.
If lpt_type != LPT_BFG, there must be a tuple
in RLfc_porttyp keyed by the RLlpt_pt(lport,lpt_type).port.  If
lpt_type = LPT_BFG, there must be a tuple in RLbfgmatch
keyed by the bfgid contained in RLpf_port.lport.
Verify the existence of tuple in RLfc_line AND a tuple
in RLfc_porttyp for the RLlpt_pt(lport,lpt_type).port, and a
tuple in RLtrmfeats keyed by the lport.
```

**Attribute: lpt_type**

**Fullname:** Logical port type

**Attribute Description** Logical port type of the user.
RLpf_port.lpt_type must be identical to RLfc_line.lpt_type if the user is for an analog or integrated services digital network (ISDN) terminal. The keys for RLfc_line are:

```
RLfc_line.port = RLlpt_pt(RLpf_port.lport,RLpf_port.lpt_type).port
RLfc_line.party = RLlpt_pt(RLpf_port.lport,RLpf_port.lpt_type).party
If the user is a BRCS trunk, then
lpt_type=LPT_OTHER.  If lpt_type=LPT_BFG, then there
must be a tuple in RLbfgmatch keyed by the bfgid
contained in RLpf_port.lport.
```

**Attribute: pf_gpid**

**Fullname:** Private facilities group ID

**Attribute Description** Private facility group to which this line/trunk belongs.
A zero indicates that this port has no private facility group associated.
If pf_gpid > 0 verify that a tuple exists in RLpf_gp with this ID as the key value.

**Attribute: pfdtgpid**

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**Fullname:** Private facilities data group ID

**Attribute Description** Identifies the private facilities data group. If a non-zero pfdtgpid is specified, a tuple must exist in RLpf_gp with pfgid as the key, and the group type in that tuple must be BR_CSD (circuit-switched data).
A zero indicates that this port has no private facility group associated.
Data groups cannot be assigned to ports without at least one B channel being marked as data.

**Attribute: q_alwd**

**Fullname:** Queuing allowed

**Attribute Description** Indicates whether modular queuing for outgoing private facilities is allowed.

```
IF q_alwd id DBYES then:
If RLfc_porttyp.porttype is TM_TRK then
   RLfc_porttyp.servclass must be FC_PF,
   or FC_PFLASH or PFITT
or If RLfc_porttyp.porttype is TM_LINE
   RLfc_porttyp.servclass must be FC_INDIVIDUAL,
   FC_ISDN, FC_ISATND,
   FC_ATTENDANT, FC_PBX, or FC_4WIRE_INDV.
If RLfc_porttyp.servclass == FC_4WIRE_INDV
   and if RLfc_4wire.conf_bridge == DBYES,
   then q_alwd must equal DBNO.
```

**Attribute: qpriority**

**Fullname:** Queuing priority

**Attribute Description** Indicates whether this is a priority line for modular queuing for private facility.
If 'qpriority' is DBYES, then 'q_alwd' must be DBYES. If 'q_alwd' is DBYES and RLfc_porttyp.porttype is TM_TRK, then 'qpriority' must be DBYES.
If 'q_alwd' is DBYES and RLfc_porttyp.portype is TM_LINE and RLfc_porttyp.servclass is FC_ATTENDANT or RLfc_porttyp.servclass is FC_ISATND then 'qpriority' must be DBYES.

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# PF_SLCP

## 1. Description

Associates a private facility sleeve port with a customer premises equipment.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 2048 |
| data page size | 1024 |
| page level | 0 |

## 3. Field Layout

```
PF_SLCP     relid = 528   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     slv_port    DMGPORT      (struct)     <--- key
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     cpe_port    DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout    PF_SLCP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+==========  slv_port ==========+===============|
    |                               |                |               |
  0 |             member            |****************|     module    |
    |===============+==========  cpe_port ==========+===============|
    |                               |                |               |
  4 |             member            |****************|     module    |
    |===============+===============+================+===============|
       ( 8 bytes )
```

## 4. Population Rules for RLpf_slcp

**Relation Description**
Private facility sleeve port with a customer premises equipment.

Associates a private facility sleeve port with a customer premises equipment.

**Attribute: slv_port**

**Fullname:** Sleeve Port

**Attribute Description** Global port id of pfa sleeve port. This attribute is divided into subattributes port.member and port.module.

```
1) Verify existence of tuple in RLfc_trunk.
2) Verify existence of tuple in RLfc_porttyp for this key port
   with the following attribute values:
        rlPORTTYPE.servclass = FC_PFSLV
        rlPORTTYPE.porttype  = TM_TRK
```

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```
rlPORTTYPE.testport  = DBNO
rlPORTTYPE.els_loss  = DBNO.
```

**Attribute: slv_port.member**

**Fullname:** Member

**Attribute Description** Port name of a trunk.

**Attribute: slv_port.module**

**Fullname:** Module

**Attribute Description** The SM number that this port terminates on.

**Attribute: cpe_port**

**Fullname:** customer premises equipment port

**Attribute Description** Global port id of customer premises equipment port used in pf feature. This attribute is divided into subattributes port.member and port.module.

```
1) Verify existence of tuple in RLfc_trunk for this key port.
2) Verify existence of tuple in RLfc_porttyp for this key port
   with following attribute values:
        rlPORTTYPE.servclass = FC_PFCPE
        rlPORTTYPE.lptyp     = PCCPEOTRK
        rlPORTTYPE.porttype  = TM_TRK
        rlPORTTYPE.testport  = DBNO
        rlPORTTYPE.els_loss  = DBNO.
```

**Attribute: cpe_port.member**

**Fullname:** Member

**Attribute Description** Port name of a trunk.

**Attribute: cpe_port.module**

**Fullname:** Module

**Attribute Description** The SM number that this port terminates on.

**Defines:**"db/DMport.h"

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# PF_TKDN

## 1. Description

Associates a trunk with its billing dn for the used in private facility feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |

## 3. Field Layout

```
PF_TKDN     relid = 531   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     gport       DMGPORT      (struct)  <--- key
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     dn          DMDN         (struct)
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
         User, Compacted and Stored Tuple Layout    PF_TKDN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============ gport ============+===============|
    |                                |                |               |
  0 |             member             |***************|     module    |
    |===============+=============  dn ============+===============|
    |       |       |                                                |
  4 | digcnt|*******|                       dn                       |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                |
  8 |                               dn                               |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                |
 12 |                               dn                               |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                                |
 16 |                               dn                               |
    |===============+===============+===============+===============|
       ( 20 bytes )
```

## 4. Population Rules for RLpf_tkdn

**Relation Description**
Private facility and trunk directory number. Associates a trunk with its billing directory number for the used in private facility feature.

**Attribute: gport**

**Fullname:** Global port id.

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**Attribute Description** Global port id. This attribute divided into sub_attributes port.member and port.module.

**Attribute: gport.member**

**Fullname:** Port name.

**Attribute Description** Port name of a port.

**Attribute: gport.module**

**Fullname:** Interface module (IM) number.

**Attribute Description**The interface module (IM) number that this port terminates on.

**Attribute: dn**

**Fullname:** Directory Number.

**Attribute Description** Billing directory number for this trunk.

**Attribute: dn.digcnt**

**Fullname:** Digit Count.

**Attribute Description** Directory number digits.

**Attribute: dn.dn**

**Fullname:** Directory Number.

**Attribute Description** Directory number code.

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# PFIXTEI

## 1. Description

This relation is used to provide information for assigning up to 8 fixed terminal endpoint identifiers (TEIs) per BRI. It's keyed by port, and each tuple will contain the TEIs and lports for 8 users per port. The array is indexed by the user's party.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3840 |
| expected tuple | 50 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function for TM | TMpfixtei |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
PFIXTEI     relid = 2176  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     port         DMPORT       (ushort)  <--- key
     teidata0     DMPFIXTEI    (struct)
         lport        DMLPORT      (ushort: 16)
         tei          DMTEI        (uchar: 7)
 (a)     tei_pop      DMBOOL       (enum: 1)
     teidata1     DMPFIXTEI    (struct)
         lport        DMLPORT      (ushort: 16)
         tei          DMTEI        (uchar: 7)
 (b)     tei_pop      DMBOOL       (enum: 1)
     teidata2     DMPFIXTEI    (struct)
         lport        DMLPORT      (ushort: 16)
         tei          DMTEI        (uchar: 7)
 (c)     tei_pop      DMBOOL       (enum: 1)
     teidata3     DMPFIXTEI    (struct)
         lport        DMLPORT      (ushort: 16)
         tei          DMTEI        (uchar: 7)
 (d)     tei_pop      DMBOOL       (enum: 1)
     teidata4     DMPFIXTEI    (struct)
         lport        DMLPORT      (ushort: 16)
         tei          DMTEI        (uchar: 7)
 (e)     tei_pop      DMBOOL       (enum: 1)
     teidata5     DMPFIXTEI    (struct)
         lport        DMLPORT      (ushort: 16)
         tei          DMTEI        (uchar: 7)
 (f)     tei_pop      DMBOOL       (enum: 1)
     teidata6     DMPFIXTEI    (struct)
         lport        DMLPORT      (ushort: 16)
         tei          DMTEI        (uchar: 7)
 (g)     tei_pop      DMBOOL       (enum: 1)
     teidata7     DMPFIXTEI    (struct)
         lport        DMLPORT      (ushort: 16)
```

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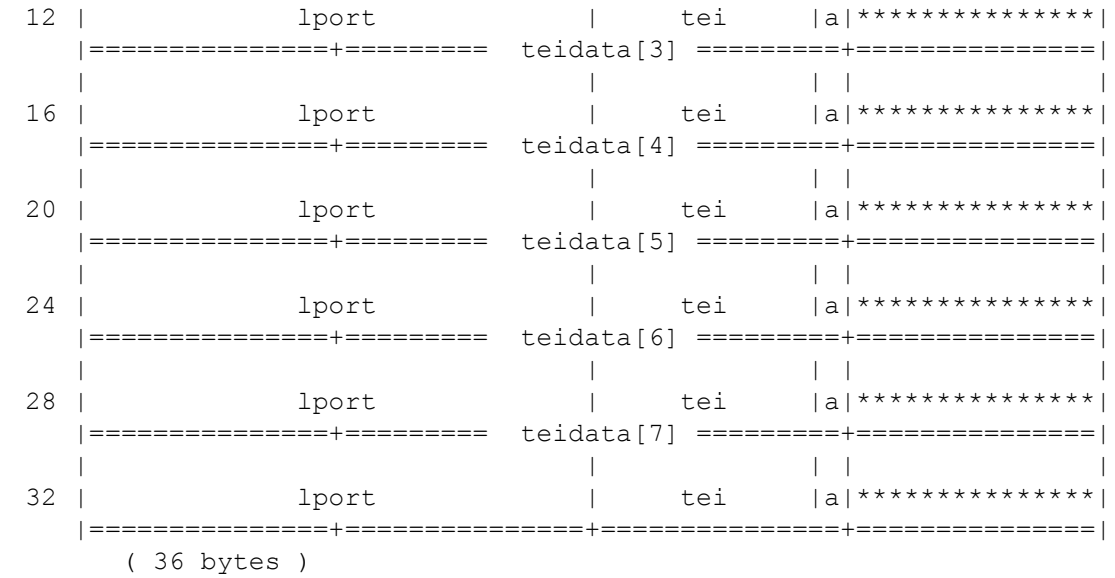
```
        tei         DMTEI        (uchar: 7)
 (h)    tei_pop     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout    PFIXTEI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              port             |*******************************|
    |===============+===========  teidata0 ==========+===============|
    |                               |             | |                 |
  4 |              lport            |     tei     |a|***************|
    |===============+===========  teidata1 ==========+===============|
    |                               |             | |                 |
  8 |              lport            |     tei     |b|***************|
    |===============+===========  teidata2 ==========+===============|
    |                               |             | |                 |
 12 |              lport            |     tei     |c|***************|
    |===============+===========  teidata3 ==========+===============|
    |                               |             | |                 |
 16 |              lport            |     tei     |d|***************|
    |===============+===========  teidata4 ==========+===============|
    |                               |             | |                 |
 20 |              lport            |     tei     |e|***************|
    |===============+===========  teidata5 ==========+===============|
    |                               |             | |                 |
 24 |              lport            |     tei     |f|***************|
    |===============+===========  teidata6 ==========+===============|
    |                               |             | |                 |
 28 |              lport            |     tei     |g|***************|
    |===============+===========  teidata7 ==========+===============|
    |                               |             | |                 |
 32 |              lport            |     tei     |h|***************|
    |===============+===============+===============+===============|
       ( 36 bytes )
domain alPFIXTEI   struct  (2 sub-attributes)
        port        unsigned short (ushort)
        teidata     .1.fake      (array [ 8 ] of .1fake )
            lport       unsigned short (ushort)
            tei         .0.fake      (uchar: 7)
 (a)        tei_pop     .0fake       (enum)
        Structure Layout      alPFIXTEI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              port             |*******************************|
    |===============+=========  teidata[0] =========+===============|
    |                               |             | |                 |
  4 |              lport            |     tei     |a|***************|
    |===============+=========  teidata[1] =========+===============|
    |                               |             | |                 |
  8 |              lport            |     tei     |a|***************|
    |===============+=========  teidata[2] =========+===============|
    |                               |             | |                 |
```




## 4. Population Rules for RLpfixtei

**Relation Description**
Fixed terminal endpoint identifier (TEI).

This is used to provide information for assigning up to 8 fixed TEIs per BRI. It's keyed by port, and each tuple will contain the TEIs and lports for 8 USOPs per port. The arrays are indexed by the USOP's party.

**Attribute: port**

**Fullname:** Port

**Attribute Description** This attribute is the key, and each tuple will contain the TEIs and lports for 8 users per port.

**Attribute: teidata[*]**

**Fullname:** TEI Data Array

**Attribute Description** This is an array of TEI data for all users on a BRI. It is indexed by the party value of the user. teidata is a structure containing the 3 attributes lport, tei, and tei_pop.

**Attribute: teidata[*].lport**

**Fullname:** Logical Port

**Attribute Description** This attribute contains a Permanent packet D lport for this user.

**Attribute: teidata[*].tei**

**Fullname:** Terminal Endpoint Identifier

**Attribute Description** This attribute contains the provisioned tei.

**Attribute: teidata[*].tei_pop**

**Fullname:** Terminal Endpoint Identifier Populated

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**Attribute Description** This attribute indicates if TEI is assigned for party.

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# PGGP_R

## 1. Description

Port to group and member. This is a physical storage relation introduced by Opview data capability. It is a modified version of the current base relation port_group except some redundant attributes that can be retrieved from group_port are not stored in this relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65531 |
| expected tuples in relation | 273 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | GCRTG |
| relation type | DBSTORAGE |
| density | 5 |
| l1 length of subkey1 | 4 |
| p1 position of subkey1 | 0 |
| l2 length of subkey2 | 4 |
| p2 position of subkey2 | 32 |
| l3 length of subkey3 | 8 |
| p3 position of subkey3 | 24 |
| l4 length of subkey4 | 12 |
| p4 position of subkey4 | 4 |
| ks key store | AUTO |

## 3. Field Layout

```
PGGP_R      relid = 1657  DBSTORAGE  DBACC_CIND  DBPRAM    LPFPFG  GCRTG
     port        DMGPORT      (struct)  <--- key, not stored
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     party       DMPARTY      (ushort: 4)  <--- key, not stored
     member      DMMEMBER     (ushort)
     grpnum      DMGRUPNM     (ushort: 11)
 (a) grptype     DMPTYPE      (enum: 1)
         User and Compacted Tuple Layout     PGGP_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============  port ============+===============|
    |                                 |               |               |
  0 |              member             |***************|     module    |
    |===============+===============+===============+===============|
    |       |                                                         |
  4 | party |*********************************************************|
    |---------------+---------------+---------------+---------------|
    |                                 |                     | |       |
  8 |              member             |        grpnum       |a|*******|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
     member      DMMEMBER     (ushort)
     grpnum      DMGRUPNM     (ushort: 11)
 (a) grptype     DMPTYPE      (enum: 1)
           Stored Tuple Layout   PGGP_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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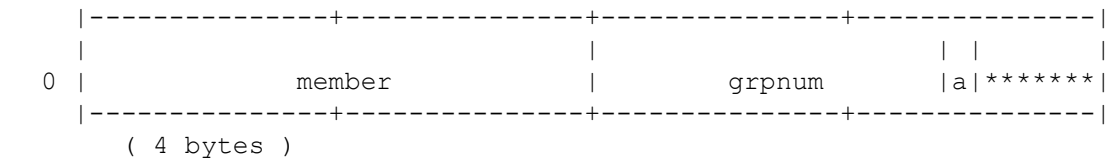


## 4. Population Rules for RLpggp_r

There are no population rules for this relation.

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# PGGPMAP

## 1. Description

This relation contains the group and member number to a port. This is a virtual update relation designed specifically for the need of Recent Change. It is a replacement for the current base relation port_group because Opview data capability changed port_group into a read-only relation to reduce ODD memory space.

The tree diagram Figure 1 depicts the stored structure of virtual relation PGGPMAP.

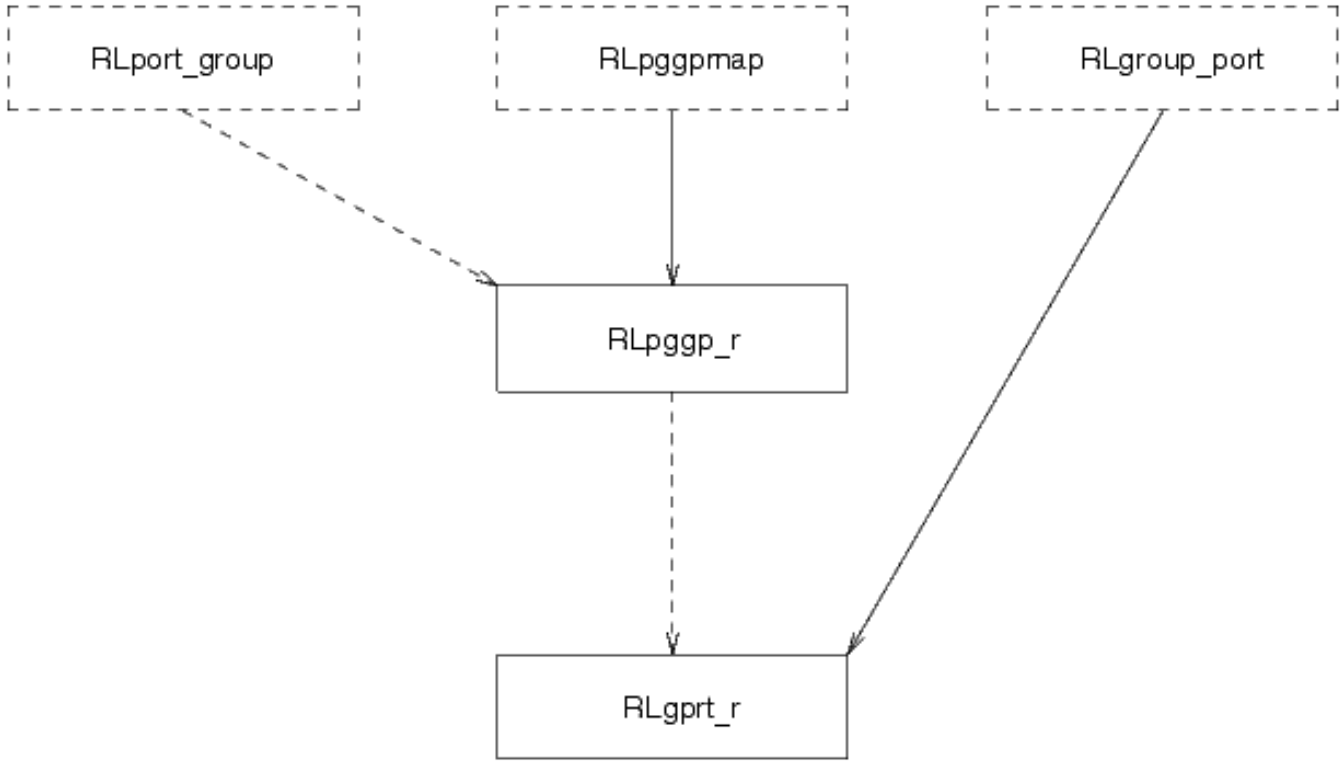


**Figure 1 Virtual Relation PGGPMAP**

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 0 |
| access type | DBACC_OPV |
| distribution | LPFPFG |
| application | GCRTG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
PGGPMAP     relid = 1486  DBSTATIC   DBACC_OPV   DBNOTODD  LPFPFG  GCRTG


    portgrp     DMPORTGRP    (struct)  <--- compacted
        grpnum      DMGRPNUM     (ushort)
(a)     grptype     DMPTYPE      (enum: 1)
    member      DMMEMBER     (ushort)
    port        DMGPORT      (struct)  <--- key
        member      DMPORT       (ushort)
```

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```
        module      DMMODULE     (ushort: 8)
    party       DMPARTY      (ushort: 4)       <--- key
    tsi_link    DMLINKNO     (ushort: 6)
    vpidb       DMVPIDB      (ushort: 6)
    qkey        DMUNS16      (ushort)
    lport       DMLPORT      (ushort: 16)
(b) lpt_type    DMLPT_TYPE   (enum: 2)
(c) ltm_type    DMLTM_TYPE   (enum: 1)
(d) lifo        DMBOOL       (enum: 1)
    ltm_idx     DMLTM_IDX    (ulong: 16)
    fac_mod     DMMODULE     (ushort: 8)
    psu_mod     DMMODULE     (ushort: 8)
           User Tuple Layout   PGGPMAP
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+=========== portgrp ===========+===============|
   |                               |             | |               |
 0 |             grpnum            |*************|a|***************|
   |===============+===============+===============+===============|
   |                               |                               |
 4 |             member            |*******************************|
   |===============+============  port ============+===============|
   |                               |               |               |
 8 |             member            |***************|     module    |
   |===============+===============+===============+===============|
   |       |           |           |                               |
12 | party |  tsi_link |   vpidb   |              qkey             |
   |---------------+---------------+---------------+---------------|
   |                               |   | | |                       |
16 |             lport             | b |c|d|***********************|
   |---------------+---------------+---------------+---------------|
   |                               |               |               |
20 |            ltm_idx            |    fac_mod    |    psu_mod    |
   |---------------+---------------+---------------+---------------|
      ( 24 bytes )


    portgrp     DMCPRTGP     (struct)  <--- compacted
(a)     zerobits    DMUNS3       (ushort: 3)
        grpnum      DMGRUPNM     (ushort: 13)
(b)     grptype     DMPTYPE      (enum: 1)
    member      DMMEMBER     (ushort)
    port        DMGPORT      (struct)  <--- key
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    party       DMPARTY      (ushort: 4)       <--- key
    tsi_link    DMLINKNO     (ushort: 6)
    vpidb       DMVPIDB      (ushort: 6)
    qkey        DMUNS16      (ushort)
    lport       DMLPORT      (ushort: 16)
(c) lpt_type    DMLPT_TYPE   (enum: 2)
(d) ltm_type    DMLTM_TYPE   (enum: 1)
(e) lifo        DMBOOL       (enum: 1)
    ltm_idx     DMLTM_IDX    (ulong: 16)
```

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```
     fac_mod     DMMODULE     (ushort: 8)
     psu_mod     DMMODULE     (ushort: 8)
        Compacted and Stored Tuple Layout   PGGPMAP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+=========== portgrp ===========+===============|
    |     |                          |             | |               |
  0 |  a  |          grpnum          |*************|b|***************|
    |===============+===============+===============+===============|
    |                                |                               |
  4 |              member            |*******************************|
    |===============+============  port ============+===============|
    |                                |               |               |
  8 |              member            |***************|     module    |
    |===============+===============+===============+===============|
    |       |           |            |                               |
 12 | party |  tsi_link |   vpidb    |              qkey             |
    |---------------+---------------+---------------+---------------|
    |                                |   | | |                       |
 16 |              lport             | c |d|e|***********************|
    |---------------+---------------+---------------+---------------|
    |                                |               |               |
 20 |             ltm_idx            |    fac_mod    |    psu_mod    |
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population rules for RLpggpmap

### Relation Description

Port_Group to Group_Port MAP(ping)

A new virtual update relation RLpggpmap is created for
the specific needs of Recent Change.
It contains all the attributes that are in RLgroup_port.
However, the following attributes are USERATT attributes:
tsi_link, vpidb,
qkey, lport, lpt_type, ltm_type, ltm_idx
The USERATT attributes are dummy variables ignored
by DBM, they are needed for creating a buffer space that has
the same size as the buffer used for RLgroup_port during update.
This allows RC to use the samebuffer space to update both
relations RLgroup_port and RLpggpmap

**Attribute:**

port

**Fullname:**

Global port name.

**Attribute Description:**

Global port name.

**Attribute:**

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port.member
**Fullname:**
Port member
**Attribute Description:**
Port member.

**Attribute:**
port.module
**Fullname:**
port module.
**Attribute Description:**
SM where member is defined.

**Attribute:**
party
**Fullname:**
Party value
**Attribute Description:**
User number on this physical port.

**Attribute:**
portgrp
**Fullname:**
port group id.
**Attribute Description:**
Trunk group or multiline hunt group.

**Attribute:**
portgrp.grpnum
**Fullname:**
Group number.
**Attribute Description:**
group number for trunk or multiline hunt group.

**Attribute:**
portgrp.grptype
**Fullname:**
group type.
**Attribute Description:**
Group type.

TM_LINE for MLHG
TM_TRK for trunk

**Attribute:**
member
**Fullname:**

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member.
**Attribute Description:**
Trunk group member or MLHG member number.

**Attribute:**
tsi_link
**Fullname:**
Time Slot Interchanger (TSI) link number
**Attribute Description:**
USERATT attribute - not stored in the database

**Attribute:**
vpidb
**Fullname:**
Virtual Peripheral Interface Data Bus (VPIDB)
**Attribute Description:**
USERATT attribute - not stored in the database

**Attribute:**
qkey
**Fullname:**
Arbitrary key.
**Attribute Description:**
USERATT attribute - not stored in the database

**Attribute:**
lport
**Fullname:**
Logical port.
**Attribute Description:**
USERATT attribute - not stored in the database

**Attribute:**
lpt_type
**Fullname:**
Logical port type.
**Attribute Description:**
USERATT attribute - not stored in the database

**Attribute:**
ltm_type
**Fullname:**
logical termination index type.
**Attribute Description:**
USERATT attribute - not stored in the database

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**Attribute:**
lifo
**Fullname:**
Fifo/lifo indicator.
**Attribute Description:**
USERATT attribute - not stored in the database

**Attribute:**
ltm_idx
**Fullname:**
Logical termination index.
**Attribute Description:**
USERATT attribute - not stored in the database

**Attribute:**
psu_mod
**Fullname:**
module number of the GSM used for SS7 PSU trunk signaling
**Attribute Description:**
USERATT attribute - not stored in the database

**Defines:**
"db/DMlinkno.h",
"db/DMvpidb.h"

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# PGRP_G

## 1. Description

This relation contains the GK storage relation for RC_PGRPRMK.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| expected tuples | 200 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTORAGE |
| head page size | 1024 |
| data page size | 512 |
| page level | 2 |
| index length | 9 |
| foldtype | DBGC31 |
| ks key store | DBNO |
| permutation type | perm |
| gkidxrel reverse index | rlPGRP_I |

## 3. Field Layout

```
PGRP_G      relid = 1702  DBSTORAGE  DBACC_GK    DBPRAM    LP      RCDATA


    gkPGRP_G    DMGK14       (ulong: 14)       <--- key, not stored
    feat_id     DMMCC_FID    (ushort)
    std_bri_cnt  DMMEM        (ushort: 12)
    rax         DMINDEX      (ushort)  <--- compacted
           User Tuple Layout    PGRP_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 0 |*********************************|          gkPGRP_G             |
   |---------------+---------------+---------------+---------------|
   |                                 |                       |       |
 4 |            feat_id              |      std_bri_cnt      |*******|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 8 |              rax                |*******************************|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )


    gkPGRP_G    DMGK14       (ulong: 14)       <--- key, not stored
    feat_id     DMMCC_FID    (ushort)
    std_bri_cnt  DMMEM        (ushort: 12)
    rax         DMRAX        (ushort: 7)       <--- compacted
         Compacted Tuple Layout     PGRP_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
```

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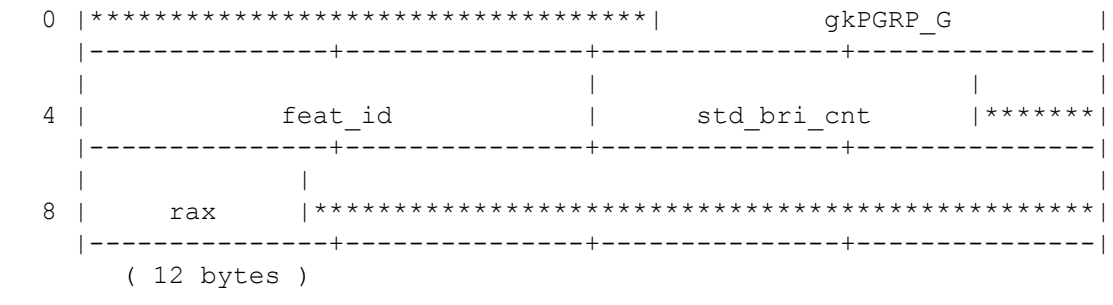


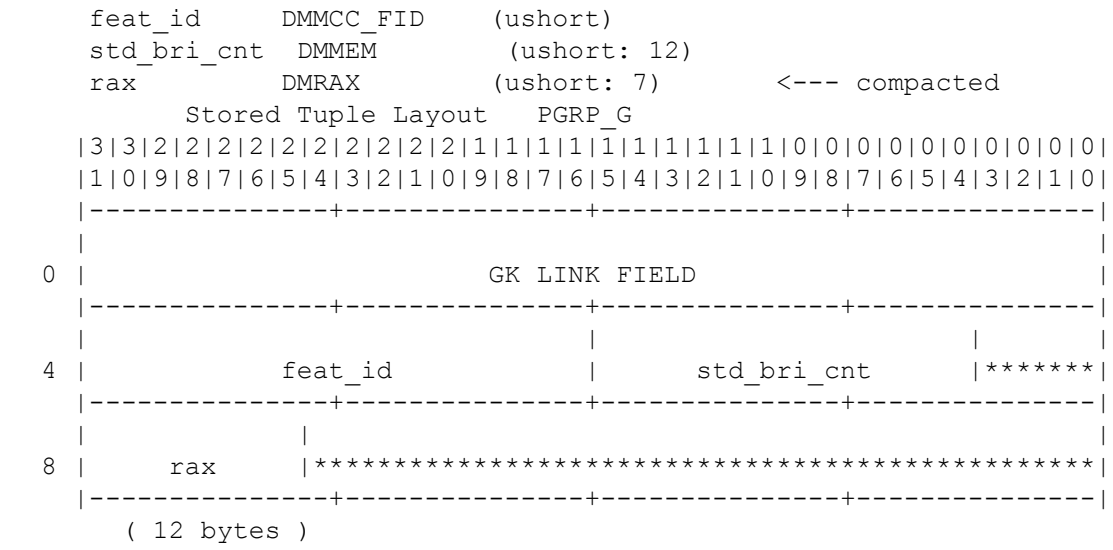


## 4. Population rules for RLpgrp_g

**Relation Description**

There are no population rules for this relation.

# PGRP_R

## 1. Description

Root storage relation for RC_PGRPRMK.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected tuples in relation | 87 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTORAGE |
| ks key store | AUTO |
| density | 37 |

## 3. Field Layout

```
PGRP_R      relid = 1704  DBSTORAGE  DBACC_CIND  DBPRAM    LP      RCDATA
     grpnum      DMGRUPNM     (ushort: 11)  <--- key, not stored
     mlhgid      DMCHR2       (array [ 2 ] of char )
     remarks     DMGK16       (ulong: 16)
     pgrpatt     DMGK14       (ulong: 14)
 (a) grpcfbl     DMCFBL_OPT   (enum: 2)
     grpdn_mbrs  DMMEM        (ushort: 12)
 (b) cf          DMBOOL       (enum: 1)
 (c) cfbusy      DMBOOL       (enum: 1)
     tn          DMLOCDN      (struct)  <--- compacted
         noc         DMNOC        (ushort: 8)
         digits      DMLOCDIG     (array [ 4 ] of char )
            User Tuple Layout    PGRP_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
  0 |        grpnum         |***************************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             mlhgid            |            remarks            |
    |---------------+---------------+---------------+---------------|
    |                             |   |                       | | |   |
  8 |          pgrpatt            | a |       grpdn_mbrs      |b|c|***|
    |===============+=============  tn ==============+===============|
    |               |               |                               |
 12 |***************|      noc      |             digits            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 16 |             digits            |*******************************|
    |===============+===============+===============+===============|
       ( 20 bytes )
     grpnum      DMGRUPNM     (ushort: 11)  <--- key, not stored
     mlhgid      DMCHR2       (array [ 2 ] of char )
     remarks     DMGK16       (ulong: 16)
     pgrpatt     DMGK14       (ulong: 14)
```

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```
(a) grpcfbl     DMCFBL_OPT   (enum: 2)
    grpdn_mbrs  DMMEM        (ushort: 12)
(b) cf          DMBOOL       (enum: 1)
(c) cfbusy      DMBOOL       (enum: 1)
    tn          DMCLOCDN     (struct)  <--- compacted
        noc         DMNOC        (ushort: 8)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
         Compacted Tuple Layout     PGRP_R
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                       |                                       |
 0 |        grpnum         |***************************************|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |             mlhgid            |            remarks            |
   |---------------+---------------+---------------+---------------|
   |                             |   |                       | | |   |
 8 |          pgrpatt            | a |       grpdn_mbrs      |b|c|***|
   |===============+=============  tn =============+===============|
   |               |               |       |       |       |       |
12 |***************|      noc      |  dig3 |  dig1 |  dig4 |  dig2 |
   |===============+===============+===============+===============|
   |                                                               |
16 |***************************************************************|
   |---------------+---------------+---------------+---------------|
     ( 20 bytes )
    mlhgid      DMCHR2       (array [ 2 ] of char )
    remarks     DMGK16       (ulong: 16)
    pgrpatt     DMGK14       (ulong: 14)
(a) grpcfbl     DMCFBL_OPT   (enum: 2)
    grpdn_mbrs  DMMEM        (ushort: 12)
(b) cf          DMBOOL       (enum: 1)
(c) cfbusy      DMBOOL       (enum: 1)
    tn          DMCLOCDN     (struct)  <--- compacted
        noc         DMNOC        (ushort: 8)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
          Stored Tuple Layout   PGRP_R
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             mlhgid            |            remarks            |
   |---------------+---------------+---------------+---------------|
   |                             |   |                       | | |   |
 4 |          pgrpatt            | a |       grpdn_mbrs      |b|c|***|
   |===============+=============  tn =============+===============|
   |               |               |       |       |       |       |
```

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```
 8 |***************|      noc      |  dig3 |  dig1 |  dig4 |  dig2 |
   |===============+===============+===============+===============|
      ( 12 bytes )
```

## 4. Population Rules for RLpgrp_r

There are no population rules for this relation.

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# PGTC

## 1. Description

Associate the Metallic Test Busses (MTBs) and distribute points connected to a Pair Gain Test Controller (PGTC) test circuit. A PGTC is an external facility used for the testing of Universal SLC(R) 96 lines. In order to operationally use the PGTC it is necessary to wire two MTBs to the PGTC test circuit : one MTB to the input and one MTB to the output of the PGTC. In addition, two distribute points are wired through the 5ESS(R)-2000 switch resistor panel out to the sleeve control input of the PGTC test circuit. This allows the 5ESS(R)-2000 switch to manipulate the various functions of the PGTC for metallic testing of lines that terminate on a USLC-96 system. This relation reflects the MTB wired to the input port of the PGTC test circuit and the distribute point wired to the high valued resister on the resistor panel. Based on the following rules, PC software will construct the names of the other MTB and distribute point internally. This relation is an SM partitioned relation in every SM that has an MSU. The following requirements pertain to population and engineering assignments :

```
(1) Every MSU shelf will terminate no more than one
    PGTC test port. This requirement is dictated by
    the software design.

(2) The two MTB's must be sequentially assigned and on
    the same MA pack. Both MTBs must be operational and
    in service for the PGTC test feature to work.
    Requiring that both MTBs be on the same pack insures
    that they are both in service at the same time
    since all MTBs on a MA pack are in or out of service
    depending on the state of the MA pack. Requiring that
    the MTBs be assigned sequentially simplifies the
    office assignment algorithms and installation
    and will aid in debugging.

(3) The MSU MA pack that terminates the PGTC mtb in and
    out pair must be on the same shelf as a MSU MA that
    terminates at least one DCTU MTB. It is not required
    that the DCTU MTBs and PGTC MTBs be on the same MSU
    MA pack. This requirement is dictated by the software
    design.

(4) The two distribute points must be sequentially
    assigned and on the same MSU DIST pack. Both
    distribute points need to be operational and in
    service for the PGTC test feature to work.
    Requiring that both distribute points exist on the
    same DIST pack insures that they are both
    in service at the same time. Requiring that the
    distribute points be assigned sequentially simplifies
    the office assignment algorithms and installation
    and will aid in debugging.
```

PC software will construct the MTB out portname and the high distribute point portname from the requirement that the MTBs and distribute points are assigned sequentially and on the same pack. Operationally, the value of mtbout = mtbin + 1 and hidist_pt = lodist_pt+1.

For every tuple that is populated in this relation, a corresponding tuple should also be populated in the AM relation rlRC_PGTC. However the rlRC_PGTC relation does not contain the MTB and distribute point name information.

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## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
PGTC        relid = 558   DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL


     mtbin       DMCIRCUIT    (ushort)
     lodist_pt   DMPORT       (ushort)
     pgtc_frame  DMUNS8       (ushort: 8)
     pgtc_member  DMUNS8       (ushort: 8)
  (a) shelf       DMUNS2       (ushort: 2)       <--- key
  (b) msu         DMUNS1       (ushort: 1)       <--- key
  (c) sg          DMUNS1       (ushort: 1)       <--- key
         User, Compacted and Stored Tuple Layout   PGTC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              mtbin            |           lodist_pt           |
    |---------------+---------------+---------------+---------------|
    |               |               |   | | |                       |
  4 |   pgtc_frame  |  pgtc_member  | a |b|c|***********************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLpgtc

### Relation Description

Pair Gain Test Controller (PGTC)

Associate the Metallic Test Busses (MTBs) and distribute points connected to a Pair Gain Test Controller (PGTC) test circuit.

PC software will construct the MTB out portname and the high distribute point portname from the requirement that the MTBs and distribute points are assigned sequentially and on the same pack. Operationally, the value of mtbout is equal to the circuit name for the next sequential circuit index from the circuit index for the mtbin circuit."

**Attribute:**

msu

**Fullname:**

MSU unit number

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**Attribute Description:**
1 bit - MSU unit number - 0 or 1

**Attribute:**
sg
**Fullname:**
MSU service group number
**Attribute Description:**
1 bit - MSU service group number - 0 or 1

**Attribute:**
shelf
**Fullname:**
MSU shelf number
**Attribute Description:**
2 bits -MSU shelf number - 0 to 3

**Attribute:**
mtbin
**Fullname:**
circuit name for MTB into PGTC
**Attribute Description:**
This MTB must be populated and have an eqstat of SMOPER in RLCKTDATA in this SM. This MTB must also be populated in RLMTBFE in this SM with fetype of PCPGTCIN. The Metallic Access (MA) pack that terminates this MTB must exist on the same MSU MA that terminates the MTB assigned to mtbout. PC software will construct the portname for the associated mtbout from the requirement that the MTBs are assigned sequentially and on the same MA pack. For each PGTC MTB, there must be populated an DCTU MTB on the same shelf as the PGTC MTB.

The out MTB (mtbout) circuit name is obtained by incrementing the circuit index for mtbin found in RLcktdata and then reading RLunit_ckt using the incremented circuit index and the unit and utype from RLcktdata.

**Attribute:**
lodist_pt
**Fullname:**
MSU dist. point wired to high resistor value for PGTC
**Attribute Description:**
The Distribute (DIST) pack that terminates this distribute point must exist in the same SM as the MA(s) that terminate the mtbin and mtbout. PC software will construct the portname for the associated hidist_pt from the requirement that the distribute points are

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assigned sequentially and are on the same DIST pack.

The high distribute (hidist_pt) port name is obtained by incrementing the port index for lodist_pt found in RLfc_porttyp.port_indx and then reading RLckt_port using the incremented port index and the lodist_pt's pack circuit name found in RLfc_porttyp.cktname.

This field will have an entry in rlFC_PORTTYP with servclass set to TMDSTPGTC.

**Attribute:**
pgtc_frame
**Fullname:**
PGTC frame number
**Attribute Description:**
With the exception of PGTC frames that may exist at an RSM, there is only one PGTC that exists at the host office. The host PGTC frame will always be identified one (1). RSM PGTC frame numbers will begin with the module number associated with the RSM. In the case of clustered RSMs, only one PGTC frame will service the cluster.

This field is also populated as the key in the AM relation rlRC_PGTC.

**Attribute:**
pgtc_member
**Fullname:**
PGTC trunk member number
**Attribute Description:**
PGTC trunk members and are labeled from 1 to 255, although no one PGTC frame should ever have this many trunks based on the engineering rules required that there can exist no more than one PGTC test trunk per MSU shelf in a service group. The PGTC trunk members will always be a part of the PGTC frame at a site. Members cannot be mixed between frames. This field is also populated as the key in the AM relation rlRC_PGTC.

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# PHCHSTAT

## 1. Description

This relation provides the allocation/reservation status of PH channels for logical PHs that can support automatic channel allocation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 96 |
| expected tuples in relation | 32 |
| density | 80 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
PHCHSTAT    relid = 2611  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     lph         DMPHNBR      (uchar: 7)     <--- key
     chmap_0     DMHEX32      (ulong)
     chmap_1     DMHEX32      (ulong)
     chmap_2     DMHEX32      (ulong)
     chmap_3     DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   PHCHSTAT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |     lph       |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             chmap_0                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             chmap_1                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                             chmap_2                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                             chmap_3                           |
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
domain alPHCHSTAT struct  (2 sub-attributes)
         lph         .1.fake      (uchar: 7)
         chmap       .2.fake      (array [ 4 ] of unsigned long )
         Structure Layout    alPHCHSTAT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |     lph       |***********************************************|
    |---------------+---------------+---------------+---------------|
```

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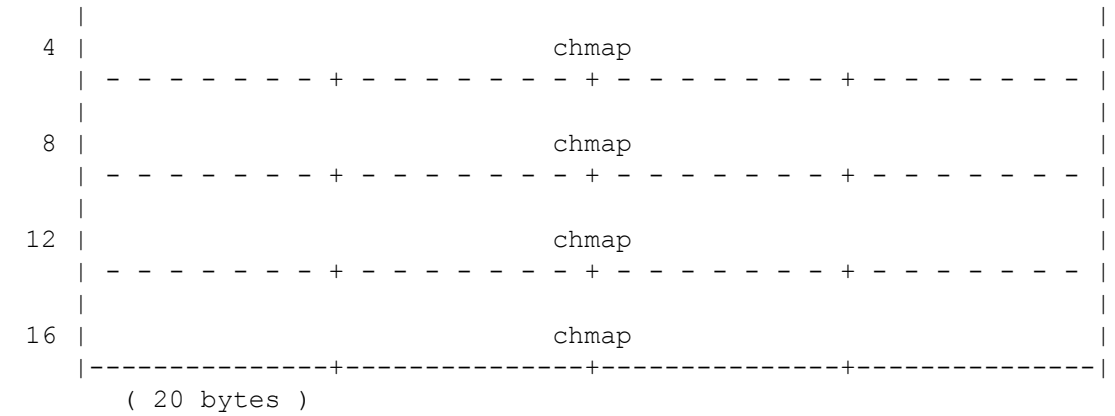


## 4. Population Rules for RLphchstat

**Relation Description**
PH Channel Status

Provides the allocation/reservation status of PH channels for logical PHs that can support automatic channel allocation.

**Attribute: lph**

**Fullname:** Logical PH number

**Attribute Description** The logical PH number (relative to PSU); the PSU shelf number is stored in bits 4-6, and the logical PH number (relative to shelf) is stored in bits 0-3.

**Attribute: chmap_0**

**Fullname:** channel status map 0

**Attribute Description** 32 bit map used to indicate which channels in PH channel cluster 0 (channels 0 - 31) have been allocated or reserved (0 = not allocated/reserved, 1 = allocated/reserved)

**Attribute: chmap_1**

**Fullname:** channel status map 1

**Attribute Description** 32 bit map used to indicate which channels in PH channel cluster 1 (channels 32 - 63) have been allocated or reserved (0 = not allocated/reserved, 1 = allocated/reserved)

**Attribute: chmap_2**

**Fullname:** channel status map 2

**Attribute Description** 32 bit map used to indicate which channels in PH channel cluster 2 (channels 64 - 95) have been allocated or reserved (0 = not allocated/reserved, 1 = allocated/reserved)

**Attribute: chmap_3**

**Fullname:** channel status map 3

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**Attribute Description** 32 bit map used to indicate which channels in PH channel cluster 3 (channels 96 - 127) have been allocated or reserved (0 = not allocated/reserved, 1 = allocated/reserved)

**Defines:**
/* NONE */

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# PHR_LANG

## 1. Description

This table maps English phrases to non-English phrases, such as those used for Customized Market Announcements (CMA) and Independent Company Announcement Branding (ICAB).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2400 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
PHR_LANG    relid = 1911  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     eng_phr     DMPHRASE     (ushort)  <--- key
     noneng_phr  DMPHRASE     (ushort)
     spare2      DMUSHORT     (ushort)
     spare1      DMUNS12      (ushort: 12)
     appl        DMANNC_APL   (enum: 4)  <--- key
         User, Compacted and Stored Tuple Layout   PHR_LANG
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            eng_phr            |           noneng_phr          |
    |---------------+---------------+---------------+---------------|
    |                               |                       |       |
  4 |             spare2            |         spare1        |  appl |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLphr_lang

**Relation Description**
This table maps English phrases, such as those use for customized market announcements (CMA) and independent company announcement branding (ICAB), to corresponding non-English language phrases.

An entry in this table maps an English language phrase to a corresponding non-English language phrase.

**Attribute: eng_phr**

**Fullname:** English phrase ID.

**Attribute Description** This is the English phrase ID to be mapped to a non-English language phrase ID.

**Attribute: appl**

**Fullname:** Announcement Application Type.

**Attribute Description** Announcement application type of the non-English language phrase to which to map eng_phr.

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**Attribute: noneng_phr**

**Fullname:** Non-English Phrase ID.**Attribute Description** This is the non-English phrase corresponding to eng_phr for this application.

**Attribute: spare1**

**Fullname:** Spare 1

**Attribute Description** A spare field.

**Attribute: spare2**

**Fullname:** Spare 2

**Attribute Description** A spare field.

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# PHRASES

## 1. Description

This relation contains the announcement phrase list.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 64000 |
| expected number of tuples | 1500 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| foldtype | DBGC31 |

## 3. Field Layout

```
PHRASES     relid = 756   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP


    dur         DMANNC_DUR    (ulong: 19)
    appl        DMANNC_APL    (enum: 4) <--- key
(a) oaff1       DMBOOL        (enum: 1)
    phtext65    DMPH_TEXT     (array [ 66 ] of char )
    oaff2       DMUNS8        (ushort: 8)
    ph_id       DMPHRASE      (ushort)  <--- key
        User, Compacted and Stored Tuple Layout    PHRASES
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                       |       | |               |
 0 |                 dur                   |  appl |a|    phtext65   |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 4 |                           phtext65                            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 8 |                           phtext65                            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                               .
                               .
                               .
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
60 |                           phtext65                            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
64 |                           phtext65                            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |               |               |                               |
68 |    phtext65   |     oaff2     |             ph_id             |
   |---------------+---------------+---------------+---------------|
      ( 72 bytes )
```

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## 4. Population rules for RLphrases

### Relation Description

phrases of announcements

```
/*************************************************************************
 *
 *      POPULATION RULES for RLPHRASES:
 *
 *      Attribute
 *      ---------
 * key  ph_id     DESCR: Phrase ID
 *                Range: 1-16383, 16600-MAXPHRASEID
 *                These phrase IDs correspond to the phrase IDs
 *                specified on the DSU2-RAF Announcement Storage
 *                Circuit (ASC) packs and on the SAS
 *                circuit packs. As phrase IDs are changed
 *                in the RAFs/SASs, they must be changed
 *                in this relation.
 *                DEFAULT: None
 *
 *                Microcode numbers for the phrase IDs are listed for
 *                each application in RLraf_mbd.
 *
 *
 * key  appl      DESCR: application
 *                Range: One of the enum values listed in
 *                       db/DMannc_apl.G
 *                DEFAULT: None
 *
 *      dur       Range: 1-7200
 *                This gives the duration of the phrase, rounded up
 *                to the nearest second, when played by the RAF/SAS.
 *                7200 seconds.
 *                DEFAULT: None
 *
 *      phtext65  Range:  All ASCII characters
 *                This is an array of up to 65 characters used to
 *                store the written text equivalent of what will be
 *                spoken to the subscriber during announcement play.
 *                No special character is required to terminate the
 *                text string, however the text should be padded on
 *                the right with blanks to fill out the array of 65.
 *                Since the RC/V screen can only accommodate 65
 *                characters, only 65 characters of any phrase can
 *                be given here. Additional text in the phrase is
 *                simply left off or can be abbreviated.
 *
 *
 *                DEFAULT: ASCII BLANK (' ')
 *
 *************************************************************************/
```

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"For applications using flexible digit strings, the tuples corresponding to Phrase IDs 1-46 MUST ALWAYS be present in this relation (for all applications). The population for these tuples is as follows.

| ph_id | dur | phtext65 |
|---|---|---|
| 1 | 1 | 'Zero (flat)' |
| 2 | 1 | 'one (flat)' |
| 3 | 1 | 'two (flat)' |
| 4 | 1 | 'three (flat)' |
| 5 | 1 | 'four (flat)' |
| 6 | 1 | 'five (flat)' |
| 7 | 1 | 'six (flat)' |
| 8 | 1 | 'seven (flat)' |
| 9 | 1 | 'eight (flat)' |
| 10 | 1 | 'nine (flat)' |
| 11 | 1 | 'oh (flat)' |
| 12 | 1 | 'zero (falling)' |
| 13 | 1 | 'one (falling)' |
| 14 | 1 | 'two (falling)' |
| 15 | 1 | 'three (falling)' |
| 16 | 1 | 'four (falling)' |
| 17 | 1 | 'five (falling)' |
| 18 | 1 | 'six (falling)' |
| 19 | 1 | 'seven (falling)' |
| 20 | 1 | 'eight (falling)' |
| 21 | 1 | 'nine (falling)' |
| 22 | 1 | 'oh (falling)' |
| 23 | 1 | 'area code' |
| 24 | 1 | 'hundred' |
| 25 | 1 | 'thousand' |
| 26 | 1 | '(quarter second pause)' |
| 27 | 1 | '(half second pause)' |
| 28 | 1 | '(full second pause)' |
| 29 | 1 | 'ten (flat)' |
| 30 | 1 | 'eleven (flat)' |
| 31 | 1 | 'twelve (flat)' |
| 32 | 1 | 'thirteen (flat)' |
| 33 | 1 | 'fourteen (flat)' |
| 34 | 1 | 'fifteen (flat)' |
| 35 | 1 | 'sixteen (flat)' |
| 36 | 1 | 'seventeen (flat)' |
| 37 | 1 | 'eighteen (flat)' |
| 38 | 1 | 'nineteen (flat)' |
| 39 | 1 | 'twenty (flat)' |
| 40 | 1 | 'thirty (flat)' |
| 41 | 1 | 'fourty (flat)' |
| 42 | 1 | 'fifty (flat)' |
| 43 | 1 | 'sixty (flat)' |
| 44 | 1 | 'seventy (flat)' |
| 45 | 1 | 'eighty (flat)' |

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```
        46      1       'ninety    (flat)'


/*************************************************************************
 *
 *      APPLICATION-SPECIFIC POPULATION RULES
 *
 *************************************************************************
 *
 *               Application Specific Population Rules for
 *                      Remote Access Services (RAS)
 *
 *
 * DESCRIPTION:
 *
 *      Defines the phrase IDs for the Remote Access Services (RAS)
 *      announcements as specified on the DSU2-RAF Announcement Storage
 *      Circuit (ASC) packs and SAS circuit packs.
 *
 *
 * QUANTITY OF TUPLES:
 *
 *      104 tuples
 *
 *
 * TUPLE SEMANTICS:
 *
 *      ph_id           - 1 to 103, 178
 *      appl            - FCBRCS_RAS
 *      dur             - second(s)
 *      phtext65        - (see the following)
 *
 *      ------------------------------------------------------------------
 *       ph_id     appl          dur     phtext65
 *      ------------------------------------------------------------------
 *       1-46   FCBRCS_RAS       1      [as specified for flexible digit
 *                                      strings]
 *        47    FCBRCS_RAS       1      star (flat inflection)
 *        48    FCBRCS_RAS       1      star (falling inflection)
 *        49    FCBRCS_RAS       1      pound (flat inflection)
 *        50    FCBRCS_RAS       1      pound (falling inflection)
 *        51    FCBRCS_RAS       3      This is your Remote Access Service.
 *        52    FCBRCS_RAS       3      Please use a touch tone telephone
 *                                      only.
 *        53    FCBRCS_RAS       6      You may now dial your seven digit
 *                                      home or office telephone number.
 *        54    FCBRCS_RAS       2      Please dial now.
 *        55    FCBRCS_RAS       2      The number you have dialed is
 *        56    FCBRCS_RAS       3      your Personal Identification
 *                                      Number.
 *        57    FCBRCS_RAS       2      and enter a new number.
 *        58    FCBRCS_RAS       3      Please dial a feature code now.
 *        59    FCBRCS_RAS       2      You have accessed the
 *        60    FCBRCS_RAS       2      Call Forwarding Activation
```

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```
*        61    FCBRCS_RAS       3      Call Forwarding Deactivation
*        62    FCBRCS_RAS       1      feature.
*        63    FCBRCS_RAS       3      To confirm this feature, dial
*        64    FCBRCS_RAS       3      To try a new feature, dial
*        65    FCBRCS_RAS       1      We're sorry.
*        66    FCBRCS_RAS       3      We cannot complete your call as
*                                      dialed.
*        67    FCBRCS_RAS       2      Please hang up and dial again,
*        68    FCBRCS_RAS       4      ... consult your written
*                                      instructions.
*        69    FCBRCS_RAS       3      Dial your Personal Identification
*                                      Number.
*        70    FCBRCS_RAS       2      The number you dialed,
*        71    FCBRCS_RAS       4      is not a valid feature code ...
*        72    FCBRCS_RAS       4      ... please consult your written
*                                        instructions.
*        73    FCBRCS_RAS       4      You may now dial your business
*                                        extension ...
*        74    FCBRCS_RAS       4      ... or dial another feature code
*                                      now.
*        75    FCBRCS_RAS       3      is not presently authorized to
*        76    FCBRCS_RAS       5      ... consult your local telephone
*                                      office.
*        77    FCBRCS_RAS       3      This is your call forwarding
*                                      service.
*        78    FCBRCS_RAS       4      ... which you want your calls
*                                      forwarded.
*        79    FCBRCS_RAS       7      ... dial 1 or an area code ...
*        80    FCBRCS_RAS       3      Your calls will be forwarded to
*        81    FCBRCS_RAS       3      If this number is correct, dial
*        82    FCBRCS_RAS       3      If this number is not correct, dial
*        83    FCBRCS_RAS       3      Your calls are now forwarded.
*        84    FCBRCS_RAS       3      Your calls are currently forwarded
*                                      to
*        85    FCBRCS_RAS       6      not forward your calls ...
*                                      deactivate  CF ...
*        86    FCBRCS_RAS       4      ... dial the deactivation code now.
*        87    FCBRCS_RAS       3      You have not dialed enough digits.
*        88    FCBRCS_RAS       2      Please start again.
*        89    FCBRCS_RAS       5      CF ... too many errors have been
*                                      made.
*        90    FCBRCS_RAS       3      Please hang up now and try again
*                                      later.
*        91    FCBRCS_RAS       4      ... temporary service problems.
*        92    FCBRCS_RAS       3      Please hang up and try again later.
*        93    FCBRCS_RAS       3      Your calls are not currently being
*                                        forwarded.
*        94    FCBRCS_RAS       2      The digits you dialed
*        95    FCBRCS_RAS       3      are not a valid telephone number.
*        96    FCBRCS_RAS       2      Please start again.
*        97    FCBRCS_RAS       3      Your calls will no longer be
*                                      forwarded.
*        98    FCBRCS_RAS       2      (prompt tone  300ms of 400HZ tone)
*        99    FCBRCS_RAS       2      (ACS tone 1 sec. of 480HZ tone)
```

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```
*       100    FCBRCS_RAS       5      ... enter a pound sign ...
*       101    FCBRCS_RAS       2      Please dial only,
*       102    FCBRCS_RAS       1      digits.
*       103    FCBRCS_RAS       2      Call forwarding
*       178    FCBRCS_RAS       6      You may now dial your home or
*                                      office telephone number.
*
*************************************************************************/
*
*              Application Specific Population Rules for
*           Automatic Customer Station Rearrangement (ACSR)
*
*
* DESCRIPTION:
*
*      Defines the phrase IDs for Automatic Customer Station Rearrangement
*      (ACSR) announcements as specified on the DSU2-RAF Announcement Storag
e
*      Circuit (ASC) packs and SAS circuit packs.
*
*
* QUANTITY OF TUPLES:
*
*      109 tuples
*
*
* TUPLE SEMANTICS:
*
*      ph_id           - 1 to 410
*      appl            - FCISDN_ACSR
*      dur             - second(s)
*      phtext65        - (see the following)
*
*      ------------------------------------------------------------------
*       ph_id     appl          dur     phtext65
*      ------------------------------------------------------------------
*       1-46   FCISDN_ACSR      1      [as specified for flexible digit
*                                       strings]
*        47    FCISDN_ACSR      1      star (flat inflection)
*        48    FCISDN_ACSR      1      star (falling inflection)
*        49    FCISDN_ACSR      1      pound (flat inflection)
*        50    FCISDN_ACSR      1      pound (falling inflection)
*        52    FCISDN_ACSR      2      The number you dialed,
*        54    FCISDN_ACSR      2      Please dial now.
*        63    FCISDN_ACSR      3      If this number is correct, dial
*        64    FCISDN_ACSR      3      If this number is not correct, dial
*        65    FCISDN_ACSR      1      We're sorry.
*        70    FCISDN_ACSR      2      The number you dialed,
*        81    FCISDN_ACSR      3      If this number is correct, dial
*        82    FCISDN_ACSR      3      If this number is not correct, dial
*       256    FCISDN_ACSR      1      beep (138ms of 400Hz tone)
*       257    FCISDN_ACSR      2      Automatic Station Rearrangement
*                                      (flat)
*       258    FCISDN_ACSR      2      Automatic Station Rearrangement
```

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```
*                                          (falling)
*       259    FCISDN_ACSR      3      but your request cannot be accepted
*                                      right now.
*       260    FCISDN_ACSR      3      has become temporarily unavailable.
*       261    FCISDN_ACSR      2      has been completed.
*       262    FCISDN_ACSR      5      If you do not want to replace the
*                                      present service, please hang up
*       263    FCISDN_ACSR      4      Please enter the new telephone
*                                      number for this line.
*       264    FCISDN_ACSR      5      In order to get service, you must
*                                      contact your local
*                                      telecommunications provider
*       265    FCISDN_ACSR      3      is not a valid telephone number for
*                                      this feature.
*       266    FCISDN_ACSR      2      is still being processed.
*       267    FCISDN_ACSR      4      Please re-enter the information
*                                      after the prompts.
*       268    FCISDN_ACSR      4      Please enter your personal
*                                      identification number now.
*       269    FCISDN_ACSR      2      Please hold on.
*       270    FCISDN_ACSR      3      Please re-enter your telephone
*                                      number now.
*       271    FCISDN_ACSR      2      Service cannot be established.
*       272    FCISDN_ACSR      3      Service has been established on
*                                      this line for
*       273    FCISDN_ACSR      2      Service will be established for
*       274    FCISDN_ACSR      6      Station Rearrangement will replace
*                                      the phone number that is present
*       275    FCISDN_ACSR      4      There is no Automatic Station
*                                      Rearrangement request pending for
*       276    FCISDN_ACSR      4      The new telephone number for this
*                                      line has not been confirmed.
*       277    FCISDN_ACSR      3      We cannot complete your request as
*                                     dialed.
*       278    FCISDN_ACSR      7      We have received many requests for
*                                      Station Rearrangement and we
*       279    FCISDN_ACSR      5      When it has been completed, you
*                                      will be called back with a record
*       280    FCISDN_ACSR      1      You have reached
*       281    FCISDN_ACSR      2      Your request for
*       282    FCISDN_ACSR      5      Thank you. Your Station
*                                      Rearrangement should be completed
*                                      in appr
*       283    FCISDN_ACSR      3      Your service cannot be established
*                                      using
*       284    FCISDN_ACSR      3      it should be completed in
*                                      approximately
*       285    FCISDN_ACSR      1      minutes
*       286    FCISDN_ACSR     13      If you previously requested a
*                                      Station Rearrangement, it should
*       287    FCISDN_ACSR      2      In order to move service for
*       288    FCISDN_ACSR     12      to this location, you must first
*                                      reprogram this number in your
*       393    FCISDN_ACSR      3      an Automatic Station Rearrangement
```

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```
*                                        service.
*       394    FCISDN_ACSR      4       check the status of your
*                                        rearrangement request.
*       395    FCISDN_ACSR      3       This service allows you to
*       396    FCISDN_ACSR      2       Please enter
*       397    FCISDN_ACSR      5       the telephone number for which you
*                                        requested a Station Rearrangement
*       398    FCISDN_ACSR      3       The status of the Station
*                                        Rearrangement for
*       399    FCISDN_ACSR      2       will be determined.
*       400    FCISDN_ACSR      2       cannot be determined
*       401    FCISDN_ACSR      2       from this line.
*       402    FCISDN_ACSR      3       cancel your rearrangement request.
*       403    FCISDN_ACSR      3       The Station Rearrangement of
*       404    FCISDN_ACSR      2       will be cancelled.
*       405    FCISDN_ACSR      4       your Station Rearrangement request
*                                        cannot be cancelled
*       406    FCISDN_ACSR      4       your Station Rearrangement request
*                                        cannot be cancelled.
*       407    FCISDN_ACSR      8       If you previously requested a
*                                        Station Rearrangement, it should no
*       408    FCISDN_ACSR      2       has been cancelled.
*       409    FCISDN_ACSR      7       If you have a service
*                                        identification number, please enter
*                                        it now.
*       410    FCISDN_ACSR      3       the service identification number
*                                        or
*
*************************************************************************
*               Application Specific Population Rules for
*                  OSPS Directory Assistance (OSPSDA)
*
*
* DESCRIPTION:
*
*      Defines the phrase IDs for the OSPS Directory Assistance (OSPSDA)
*      announcements as specified on the DSU2-RAF Announcement Storage
*      Circuit (ASC) packs and SAS circuit packs.
*
*
* QUANTITY OF TUPLES:
*
*      67 tuples
*
*
* TUPLE SEMANTICS:
*
*      ph_id           - 1 to 67
*      appl            - FCOSPS_DA
*      dur             - second(s)
*      phtext65        - (see the following)
*
*      ------------------------------------------------------------------
*      ph_id      appl         dur     phtext65
```

```
*      ------------------------------------------------------------------
*      1-28    FCOSPS_DA       1       [as specified for flexible digit
*                                      strings]
*      29      FCOSPS_DA       2       the  number
*      30      FCOSPS_DA       2       the number is
*      31      FCOSPS_DA       3       the first number is
*      32      FCOSPS_DA       4       an alternate number is
*      33      FCOSPS_DA       3       the area code is
*      34      FCOSPS_DA       4       dial one and then the number
*      35      FCOSPS_DA       1       coin
*      36      FCOSPS_DA       2       not a coin
*      37      FCOSPS_DA       4       is assigned to a coin phone
*      38      FCOSPS_DA       4       is not assigned to a coin phone
*      39      FCOSPS_DA       5       the reservation and information
*                                      number is
*      40      FCOSPS_DA       7       the night, Saturday, Sunday and
*                                      holiday number is
*      41      FCOSPS_DA       4       the number may not yet be connected
*      42      FCOSPS_DA       4       you may call the number collect
*      43      FCOSPS_DA       4       collect calls will be accepted
*      44      FCOSPS_DA       4       to place catalog orders only
*      45      FCOSPS_DA       10      in the future, you can obtain area
*                                      code information without
*      46      FCOSPS_DA       7       at the customer's request, the
*                                      number is not published and is no
*      47      FCOSPS_DA       3       if you have further questions
*      48      FCOSPS_DA       4       a directory assistance operator
*                                      will return
*      49      FCOSPS_DA       3       please hang up and redial
*      50      FCOSPS_DA       4       the toll-free number is
*      51      FCOSPS_DA       1       repeat
*      52      FCOSPS_DA       3       for more information
*      53      FCOSPS_DA       2       please call
*      54      FCOSPS_DA       4       or visit your local
*      55      FCOSPS_DA       2       phone center
*      56      FCOSPS_DA       4       toll free number is
*      57      FCOSPS_DA       2       AT&T
*      58      FCOSPS_DA       2       MCI
*      59      FCOSPS_DA       3       Teleconnect
*      60      FCOSPS_DA       3       U.S. Sprint
*      61      FCOSPS_DA       2       Teltec
*      62      FCOSPS_DA       2       Microtel
*      63      FCOSPS_DA       4       Houston ntw
*      64      FCOSPS_DA       4       Western Union
*      65      FCOSPS_DA       3       Telecom
*      66      FCOSPS_DA       2       GTE
*      67      FCOSPS_DA       4       Rochester
*
*************************************************************************
*               Application Specific Population Rules for
*                    OSPS Toll & Assistance (OSPSTA)
*
*
* DESCRIPTION:
```

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```
*
*      Defines the phrase IDs for the OSPS Toll & Assistance (OSPSTA)
*      announcements as specified on the DSU2-RAF Announcement Storage
*      Circuit (ASC) packs and SAS circuit packs.
*
*
* QUANTITY OF TUPLES:
*
*      285 tuples
*
*
* TUPLE SEMANTICS:
*
*      ph_id           - 1 to 216, 256 to 324
*      appl            - FCOSPS_TA
*      dur             - second(s)
*      phtext65        - (see the following)
*
*      ------------------------------------------------------------------
*      ph_id      appl      dur   phtext65
*      ------------------------------------------------------------------
*      1-46    FCOSPS_TA    1    [as specified for flexible digit
*                                   strings]
*      47      FCOSPS_TA    4    Please dial your card number - used
*                                  as a prefix
*      48      FCOSPS_TA    4    or zero for an operator now.
*      49      FCOSPS_TA    1    again now.
*      50      FCOSPS_TA    4    The card number you have dialed is
*                                  not valid.
*      51      FCOSPS_TA    4    Please hang up and dial again.
*      52      FCOSPS_TA    1    Thank-you.
*      53      FCOSPS_TA    4    Please dial the number you are
*                                  calling.
*      54      FCOSPS_TA    4    The number you have called is not
*                                  correct.
*      55      FCOSPS_TA    2    Please dial now.
*      56      FCOSPS_TA    4    The number you have dialed is not
*                                  correct.
*      57      FCOSPS_TA    1    Valid number
*      58      FCOSPS_TA    1    Invalid number
*      59      FCOSPS_TA    2    Unrestricted PIN
*      60      FCOSPS_TA    2    Restricted PIN
*      61      FCOSPS_TA    2    RAO
*      62      FCOSPS_TA    1    unavailable
*      63      FCOSPS_TA    2    Please dial again now.
*      64      FCOSPS_TA    2    Please hang up.
*      65      FCOSPS_TA    4    Please hang up and dial direct.
*      66      FCOSPS_TA    7    This number cannot be dialed as a
*                                  sequence call.
*      67      FCOSPS_TA    4    Thank-you for using AT&T.
*      68      FCOSPS_TA    3    You may dial another
*      69      FCOSPS_TA    2    AT&T handled call - flat
*                                  inflection
*      70      FCOSPS_TA    2    local phone company call - flat
```

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```
*                                    inflection
*      71      FCOSPS_TA    1    now
*      72      FCOSPS_TA    7    You may continue your sequence
*                                calling only with another
*      73      FCOSPS_TA    5    Your call cannot be completed at
*                                  this time.
*      74      FCOSPS_TA    5    Please hang up and try your call
*                                  again later.
*      75      FCOSPS_TA    5    Access to AT&T network is not
*                                  authorized.  Please call
*      76      FCOSPS_TA    2    Billing allowed
*      77      FCOSPS_TA    2    Invalid billing
*      78      FCOSPS_TA    4    You may dial another number now.
*      79      FCOSPS_TA    1    bong
*      80      FCOSPS_TA    4    Please dial your card number.
*                                  (standalone)
*      81      FCOSPS_TA    2    AT&T handled call (falling)
*      82      FCOSPS_TA    2    local phone company call (falling)
*      83      FCOSPS_TA    1    dollar (flat)
*      84      FCOSPS_TA    1    dollars (flat)
*      85      FCOSPS_TA    1    dollar (falling)
*      86      FCOSPS_TA    1    dollars (falling)
*      87      FCOSPS_TA    1    cent (flat)
*      88      FCOSPS_TA    1    cents (flat)
*      89      FCOSPS_TA    1    cent (falling)
*      90      FCOSPS_TA    1    cents (falling)
*      91      FCOSPS_TA    1    second (flat)
*      92      FCOSPS_TA    1    seconds (flat)
*      93      FCOSPS_TA    1    second (falling)
*      94      FCOSPS_TA    1    seconds (falling)
*      95      FCOSPS_TA    1    minute (flat)
*      96      FCOSPS_TA    1    minutes (flat)
*      97      FCOSPS_TA    1    minute (falling)
*      98      FCOSPS_TA    1    minutes (falling)
*      99      FCOSPS_TA    1    for the
*      100     FCOSPS_TA    1    credit (flat)
*      101     FCOSPS_TA    1    credit (falling)
*      102     FCOSPS_TA    1    please
*      103     FCOSPS_TA    1    first
*      104     FCOSPS_TA    1    more (flat)
*      105     FCOSPS_TA    1    more (falling)
*      106     FCOSPS_TA    1    and
*      107     FCOSPS_TA    1    coin
*      108     FCOSPS_TA    1    test
*      109     FCOSPS_TA    1    nickel
*      110     FCOSPS_TA    1    dime
*      111     FCOSPS_TA    1    quarter
*      112     FCOSPS_TA    1    past
*      113     FCOSPS_TA    2    Please deposit
*      114     FCOSPS_TA    2    has ended
*      115     FCOSPS_TA    4    Please signal when through.
*      116     FCOSPS_TA    2    plus tax for
*      117     FCOSPS_TA    2    the charges are
*      118     FCOSPS_TA    2    you have
```

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```
*      119     FCOSPS_TA    2    for this call
*      120     FCOSPS_TA    2    towards overtime
*      121     FCOSPS_TA    2    Thank you (flat)
*      122     FCOSPS_TA    2    for using
*      123     FCOSPS_TA    2    Timing error.
*      124     FCOSPS_TA    1    (alerting tone)
*      125     FCOSPS_TA    4    AT&T
*      126     FCOSPS_TA    4    Northwestern Bell
*      127     FCOSPS_TA    4    Ohio Bell
*      128     FCOSPS_TA    4    New Jersey Bell
*      129     FCOSPS_TA    4    Wisconsin Telephone
*      130     FCOSPS_TA    4    C&P
*      131     FCOSPS_TA    3    your local telephone company
*      132     FCOSPS_TA    2    GTE
*      133     FCOSPS_TA    2    for calling
*      134     FCOSPS_TA    2    For this call
*      135     FCOSPS_TA    3    the AT&T card number
*      136     FCOSPS_TA    3    the calling card number
*      137     FCOSPS_TA    4    you have dialed is not allowed
*      138     FCOSPS_TA    2    Please dial
*      139     FCOSPS_TA    6    your local telephone company
*                                  calling card number now
*      140     FCOSPS_TA    4    your AT&T card number now
*      141     FCOSPS_TA    2    or arrange
*      142     FCOSPS_TA    2    other billing
*      143     FCOSPS_TA    3    other AT&T billing
*      144     FCOSPS_TA    4    Please hang up and arrange
*      145     FCOSPS_TA    5    Please dial another telephone
*                                  number now
*      146     FCOSPS_TA    9    The number you dialed cannot be
*                                  billed to this AT&T card
*      147     FCOSPS_TA    2    RPC
*      148     FCOSPS_TA    3    the card number
*      149     FCOSPS_TA    6    This call cannot be billed to this
*                                  AT&T card
*      150     FCOSPS_TA    6    We're sorry, your card number is
*                                  invalid
*      151     FCOSPS_TA    6    Please redial your complete card
*                                  number now
*      152     FCOSPS_TA    2    Number invalid
*      153     FCOSPS_TA    2    Number valid
*      154     FCOSPS_TA    2    subaccount
*      155     FCOSPS_TA    3    Thank you for using
*      156     FCOSPS_TA    2    We're sorry
*      157     FCOSPS_TA    7    The service you have requested is
*                                  not available
*      158     FCOSPS_TA    2    Please hold for
*      159     FCOSPS_TA    1    operator.
*      160     FCOSPS_TA    1    Please hold,
*      161     FCOSPS_TA    3    operator will be connected to this
*                                  call promptly.
*      162     FCOSPS_TA    1    an
*      163     FCOSPS_TA    2    a telephone company
*      164     FCOSPS_TA    1    an AT&T
```

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```
*      165     FCOSPS_TA    2    a United Telephone
*      166     FCOSPS_TA    2    a New York Telephone
*      167     FCOSPS_TA    2    a New England Telephone
*      168     FCOSPS_TA    2    an S.N.E.T.
*      169     FCOSPS_TA    2    a New Jersey Bell
*      170     FCOSPS_TA    2    a Cincinnati Bell
*      171     FCOSPS_TA    2    a US West Communications
*      172     FCOSPS_TA    1    a GTE
*      173     FCOSPS_TA    2    a Pacific Bell
*      174     FCOSPS_TA    2    a Nevada Bell
*      175     FCOSPS_TA    1    hour (flat)
*      176     FCOSPS_TA    1    hour. (falling)
*      177     FCOSPS_TA    1    hours (flat)
*      178     FCOSPS_TA    1    hours. (falling)
*      179     FCOSPS_TA    2    the next available
*      180     FCOSPS_TA    1    ACS Tone
*      181     FCOSPS_TA    1    for the first (flat)
*      182     FCOSPS_TA    1    for the past (flat)
*      183     FCOSPS_TA    1    a Northwestern Bell (flat)
*      184     FCOSPS_TA    1    an Ohio Bell (flat)
*      185     FCOSPS_TA    2    a Wisconsin Telephone (flat)
*      186     FCOSPS_TA    1    a  C & P (flat)
*      187     FCOSPS_TA    2    a Whidbey Telephone Company (flat)
*      188     FCOSPS_TA    2    a Roseville Telephone Company (flat)
*      189     FCOSPS_TA    1    an Illinois Bell (flat)
*      190     FCOSPS_TA    1    a Michigan Bell (flat)
*      191     FCOSPS_TA    1    a Southwestern Bell (flat)
*      192     FCOSPS_TA    2    a Rochester Telephone (flat)
*      193     FCOSPS_TA    1    United Telephone (falling)
*      194     FCOSPS_TA    1    New York Telephone (falling)
*      195     FCOSPS_TA    2    New England Telephone (falling)
*      196     FCOSPS_TA    1    S.N.E.T. (falling)
*      197     FCOSPS_TA    1    Cincinnati Bell (falling)
*      198     FCOSPS_TA    2    U.S. West Communications (falling)
*      199     FCOSPS_TA    1    Pacific Bell (falling)
*      200     FCOSPS_TA    1    Nevada Bell (falling)
*      201     FCOSPS_TA    2    Whidbey Telephone Company (falling)
*      202     FCOSPS_TA    2    Roseville Telephone (falling)
*      203     FCOSPS_TA    1    Illinois Bell (falling)
*      204     FCOSPS_TA    1    Michigan Bell (falling)
*      205     FCOSPS_TA    1    Southwestern Bell (falling)
*      206     FCOSPS_TA    2    Rochester Telephone (falling)
*      207     FCOSPS_TA    1    ...and PIN...
*      208     FCOSPS_TA    1    ...and PIN.
*      209     FCOSPS_TA    4    ...your AT&T card number and PIN
*                                  now...
*      210     FCOSPS_TA    3    This call cannot be billed to this
*                                  card.
*      211     FCOSPS_TA    4    Please redial your complete card
*                                  number and PIN now.
*      212     FCOSPS_TA    4    Validation service is not provided
*                                  for this card.
*      213     FCOSPS_TA    3    This card cannot be used for this
*                                  service.
```

```
*      214     FCOSPS_TA    3    ...a different card number and PIN
*                                   now.
*      215     FCOSPS_TA    3    Please dial your PIN now.
*      216     FCOSPS_TA    3    Please hang up and contact your
*                                  card issuer.
*      256     FCOSPS_TA    1    Southern Bell.
*      257     FCOSPS_TA    1    a Southern Bell
*      258     FCOSPS_TA    1    South Central Bell.
*      259     FCOSPS_TA    1    a South Central Bell
*      260     FCOSPS_TA    2    Buzz..Buzz (2 busy tones)
*      261     FCOSPS_TA    3    Ring (Audible Ring)
*      262     FCOSPS_TA    1    Please don't hang up.
*      263     FCOSPS_TA    1    The phone is busy
*      264     FCOSPS_TA    2    Your party is not answering
*      265     FCOSPS_TA    1    but
*      266     FCOSPS_TA    1    for a charge
*      267     FCOSPS_TA    1    for a charge.
*      268     FCOSPS_TA    2    for an additional charge
*      269     FCOSPS_TA    2    for an additional charge.
*      270     FCOSPS_TA    1    of
*      271     FCOSPS_TA    1    you may leave a message
*      272     FCOSPS_TA    1    you may leave a message.
*      273     FCOSPS_TA    2    you may leave a voice message
*      274     FCOSPS_TA    2    you may leave a voice message.
*      275     FCOSPS_TA    2    using a Messaging Service.
*      276     FCOSPS_TA    2    using a Voice Messaging Service.
*      277     FCOSPS_TA    2    For AT&T's
*      278     FCOSPS_TA    1    To leave a message,
*      279     FCOSPS_TA    3    using AT&T's VoiceMark(R)
*                                  Messaging Service,
*      280     FCOSPS_TA    2    using AT&T's
*      281     FCOSPS_TA    1    Voice
*      282     FCOSPS_TA    1    Messaging Service,
*      283     FCOSPS_TA    1    press pound
*      284     FCOSPS_TA    1    press star
*      285     FCOSPS_TA    4    followed by the Access Code of your
*                                  Messaging Service provider.
*      286     FCOSPS_TA    4    followed by Service Code of another
*                                  Messaging Service provider.
*      287     FCOSPS_TA    4    followed by Access Code of another
*                                  Messaging Service provider.
*      288     FCOSPS_TA    1    or
*      289     FCOSPS_TA    1    USA Direct
*      290     FCOSPS_TA    3    your local telephone company
*                                  calling card number
*      291     FCOSPS_TA    2    your AT&T card number
*      292     FCOSPS_TA    3    Please dial another PIN
*      293     FCOSPS_TA    4    or press pound to retain your
*                                  previous PIN.
*      294     FCOSPS_TA    2    The PIN
*      295     FCOSPS_TA    3    (alerting tone) for CAS PL
*      296     FCOSPS_TA    3    Due to calling card restrictions
*      297     FCOSPS_TA    3    this call will be terminated in
*      298     FCOSPS_TA    2    From this phone
```

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*      299     FCOSPS_TA    1    your call
*      300     FCOSPS_TA    2    to this nine hundred number
*      301     FCOSPS_TA    3    must be billed to a card number.
*      302     FCOSPS_TA    2    cannot be completed
*      303     FCOSPS_TA    2    from this phone.
*      304     FCOSPS_TA    3    Please redial your card number
*      305     FCOSPS_TA    3    or press zero for an operator now.
*      306     FCOSPS_TA    4    Please hold for an operator, or
*                                  hang up now.
*      307     FCOSPS_TA    1    hour    (flat)
*      308     FCOSPS_TA    1    hour.   (falling)
*      309     FCOSPS_TA    1    hours   (flat)
*      310     FCOSPS_TA    1    hours.  (falling)
*      311     FCOSPS_TA    1    for the first
*      312     FCOSPS_TA    1    for the past
*      313     FCOSPS_TA    2    Alascom
*      314     FCOSPS_TA    2    an Alascom
*      315     FCOSPS_TA    2    Lincoln Telephone
*      316     FCOSPS_TA    3    a Lincoln Telephone
*      317     FCOSPS_TA    4    The area code and seven-digit
*                                  number that you are calling
*      318     FCOSPS_TA    2    An area code must
*      319     FCOSPS_TA    3    be dialed to complete this call
*      320     FCOSPS_TA    1    now
*      321     FCOSPS_TA    2    Collect check.
*      322     FCOSPS_TA    2    Third number check.
*      323     FCOSPS_TA    2    Unrecognized.
*      324     FCOSPS_TA    2    Denied billing.
*
* 14000-14999  FCOSPS_TA       (reserved for future use by the customized
*                               announcement process)
*
*************************************************************************
*
*               Application Specific Population Rules for
*                  LASS SLE Screen List Editing (SLE)
*
*
* DESCRIPTION:
*
*      Defines the phrase IDs for the LASS SLE Screen List Editing
*      capability announcements as specified on the DSU2-RAF Announcement
*      Storage Circuit (ASC) packs and SAS circuit packs.
*
* QUANTITY OF TUPLES:
*
*      186 tuples
*
*
* TUPLE SEMANTICS:
*
*      ph_id           - 1 to 50, 289 to 391, 411 to 443
*      appl            - FCLASS_SLE
*      dur             - second(s)
```

```
*       phtext65        - (see the following)
*
*       ------------------------------------------------------------------
*       ph_id      appl      dur  phtext65
*       ------------------------------------------------------------------
*       1-46    FCLASS_SLE    1   [as specified for flexible digit
*                                    strings]
*        47     FCLASS_SLE    1   star (flat)
*        48     FCLASS_SLE    1   star (falling)
*        49     FCLASS_SLE    1   pound (flat)
*        50     FCLASS_SLE    1   pound (falling)
*        289    FCLASS_SLE    1   is already
*        290    FCLASS_SLE    1   (Prompt tone 300ms of 400HZ tone)
*        291    FCLASS_SLE    1   (confirmation tone three 300ms of
*                                    400hz tone)
*        292    FCLASS_SLE    1   There is
*        293    FCLASS_SLE    1   Next
*        294    FCLASS_SLE    1   Then
*        295    FCLASS_SLE    1   Please
*        296    FCLASS_SLE    1   Extension
*        297    FCLASS_SLE    2   Welcome to
*        298    FCLASS_SLE    2   Dial one
*        299    FCLASS_SLE    2   Dial zero
*        300    FCLASS_SLE    2   Dial zero one
*        301    FCLASS_SLE    2   Dial one one
*        302    FCLASS_SLE    2   Dial one two
*        303    FCLASS_SLE    2   We're sorry
*        304    FCLASS_SLE    2   Is now on
*        305    FCLASS_SLE    2   Is now off
*        306    FCLASS_SLE    2   There are no
*        307    FCLASS_SLE    1   There are
*        308    FCLASS_SLE    2   entries on your list
*        309    FCLASS_SLE    1   Including
*        310    FCLASS_SLE    2   A private entry
*        311    FCLASS_SLE    2   private entries
*        312    FCLASS_SLE    2   on your list
*        313    FCLASS_SLE    2   Please start again
*        314    FCLASS_SLE    2   Please dial now
*        315    FCLASS_SLE    2   The number you have added is
*        316    FCLASS_SLE    2   The digits you have dialed
*        317    FCLASS_SLE    2   If this is correct
*        318    FCLASS_SLE    2   If this is not correct
*        319    FCLASS_SLE    2   To add an entry
*        320    FCLASS_SLE    2   To remove an entry
*        321    FCLASS_SLE    2   Press the number sign key
*        322    FCLASS_SLE    2   Press the star key
*        323    FCLASS_SLE    4   Please try adding the number again
*                                    in a few minutes
*        324    FCLASS_SLE    2   Please dial the number to be added
*        325    FCLASS_SLE    3   Please dial the number to be
*                                    removed
*        326    FCLASS_SLE    3   Then press the number sign key
*                                    again
*        327    FCLASS_SLE    3   Then press the star key again
```

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```
*       328    FCLASS_SLE    3   Are not a valid telephone number
*       329    FCLASS_SLE    2   Are not a valid command
*       330    FCLASS_SLE    3   You have cleared the digits dialed
*       331    FCLASS_SLE    3   Your Computer Access Restriction
*                                  service
*       332    FCLASS_SLE    3   Your Selective Call Forwarding
*                                  service
*       333    FCLASS_SLE    3   Your Selective Call Acceptance
*                                  service
*       334    FCLASS_SLE    3   Your Selective Call Rejection
*                                  service
*       335    FCLASS_SLE    3   Your Selective Distinctive Alert
*                                  service
*       336    FCLASS_SLE    3   Unaccepted callers will hear a
*                                  recording
*       337    FCLASS_SLE    3   Unaccepted calls will be forwarded
*                                  to
*       338    FCLASS_SLE    4   If you want unaccepted callers to
*                                  hear a recording
*       339    FCLASS_SLE    4   If you want to forward unaccepted
*                                  calls to another number
*       340    FCLASS_SLE    3   Please continue or dial zero for
*                                  help
*       341    FCLASS_SLE    3   You must dial a phone number after
*                                  dialing
*       342    FCLASS_SLE    3   The number sign key or the star
*                                  key
*       343    FCLASS_SLE    3   one two or one one
*       344    FCLASS_SLE    4   Dial the number to which you want
*                                  unaccepted calls forwarded
*       345    FCLASS_SLE    4   Please dial the number to which
*                                  you
*                                  want your calls forwarded
*       346    FCLASS_SLE    2   This is the end of your list
*       347    FCLASS_SLE    3   The number you have removed is
*       348    FCLASS_SLE    3   Your calls will be forwarded to
*       349    FCLASS_SLE    2   Please hang up now
*       350    FCLASS_SLE    4   Consult your written instructions
*                                  and try again later
*       351    FCLASS_SLE    3   The number you have dialed is
*                                  incorrect
*       352    FCLASS_SLE    2   Please wait for the prompt tone
*       353    FCLASS_SLE    4   Before dialing the number to be
*                                  added or to be removed
*       354    FCLASS_SLE    3   To hear the entries on your list
*       355    FCLASS_SLE    4   To remove all entries dial zero
*                                  eight
*       356    FCLASS_SLE    4   To remove just the private
*                                  entries dial zero nine
*       357    FCLASS_SLE    2   One entry
*       358    FCLASS_SLE    2   One private entry
*       359    FCLASS_SLE    3   To turn this service off, dial 3
*       360    FCLASS_SLE    3   To turn this service on, dial 3
*       361    FCLASS_SLE    2   To save your list hang up
```

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```
*       362    FCLASS_SLE    3   This service is being interrupted
*       363    FCLASS_SLE    3   Please hang up and try again in a
*                                  few minutes
*       364    FCLASS_SLE    5   Your list is full. You must
*                                  remove an entry before adding
*                                  another
*       365    FCLASS_SLE    3   In order to turn-on this service
*       366    FCLASS_SLE    3   You must add entries to your list
*       367    FCLASS_SLE    3   You have dialed too few digits
*       368    FCLASS_SLE    3   You have dialed too many digits
*       369    FCLASS_SLE    4   You may dial during the
*                                  announcements for faster service
*       370    FCLASS_SLE    3   You may dial now or wait for
*                                  instructions
*       371    FCLASS_SLE    4   To add, remove, or hear list
*                                  entries
*       372    FCLASS_SLE    3   dial according to instructions
*       373    FCLASS_SLE    2   To hear these instructions
*       374    FCLASS_SLE    3   To hear these instructions
*                                  repeated
*       375    FCLASS_SLE    4   The number you have dialed is not
*                                  available with this service
*       376    FCLASS_SLE    3   The number is not available now
*       377    FCLASS_SLE    3   The first entry on your list is
*       378    FCLASS_SLE    3   To reject the last calling party
*       379    FCLASS_SLE    2   If this number is correct
*       380    FCLASS_SLE    3   To turn your service on dial 3
*       381    FCLASS_SLE    4   To turn your service off dial 3
*       382    FCLASS_SLE    1   more
*       383    FCLASS_SLE    2   This number
*       384    FCLASS_SLE    1   as
*       385    FCLASS_SLE    3   The number to be removed is not
*       386    FCLASS_SLE    2   private entries.
*       387    FCLASS_SLE    2   on your list.
*       388    FCLASS_SLE    3   your Computer Access Restriction
*                                  service.
*       389    FCLASS_SLE    3   your Selective Call Forwarding
*                                  service.
*       390    FCLASS_SLE    3   your Selective Call Acceptance
*                                  service.
*       391    FCLASS_SLE    2   one private entry.
*       411    FCLASS_SLE    2   on your list.
*       412    FCLASS_SLE    2   The number
*       413    FCLASS_SLE    2   you have dialed,
*       414    FCLASS_SLE    2   is not permitted.
*       415    FCLASS_SLE    2   The digits dialed
*       416    FCLASS_SLE    2   Please continue,
*       417    FCLASS_SLE    1   or
*       418    FCLASS_SLE    3   dial zero for instructions.
*       419    FCLASS_SLE    2   hang up.
*       420    FCLASS_SLE    4   You must dial a telephone number
*                                  after dialing
*       421    FCLASS_SLE    3   Your list is now empty.
*       422    FCLASS_SLE    2   dial one.
```

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```
*       423    FCLASS_SLE    3   If this number is not correct,
*       424    FCLASS_SLE    2   dial zero.
*       425    FCLASS_SLE    3   To remove one or more entries,
*       426    FCLASS_SLE    3   To turn on this service,
*       427    FCLASS_SLE    4   you must add an entry to your list.
*       428    FCLASS_SLE    3   When you have finished,
*       429    FCLASS_SLE    4   of the last calling party is not
*                                  available.
*       430    FCLASS_SLE    5   To delete an entry, dial zero,
*                                  seven as soon as you hear it.
*       431    FCLASS_SLE    2   Repeating,
*       432    FCLASS_SLE    1   and
*       433    FCLASS_SLE    3   Dial the number to be removed,
*       434    FCLASS_SLE    4   To remove all entries, dial zero,
*                                  eight,
*       435    FCLASS_SLE    5   To remove just the private
*                                  entries, dial zero, nine,
*       436    FCLASS_SLE    3   Please try other options
*       437    FCLASS_SLE    3   one, two or one, one.
*       438    FCLASS_SLE    2   dial one, two.
*       439    FCLASS_SLE    2   dial one, one.
*       440    FCLASS_SLE    2   dial one, two
*       441    FCLASS_SLE    3   Dial the number to be added,
*       442    FCLASS_SLE    3   To add the last calling party,
*       443    FCLASS_SLE    2   dial zero, one,
*
************************************************************************/
************************************************************************
*
*                Application Specific Population Rules for
*                      Private Virtual Network (PVN)
*
*
* DESCRIPTION:
*
*      Defines the phrase IDs for the Private Virtual Network (PVN)
*      announcements as specified on the DSU2-RAF Announcement Storage
*      Circuit (ASC) packs and SAS circuit packs.
*
*
* QUANTITY OF TUPLES:
*
*      70 tuples
*
*
* TUPLE SEMANTICS:
*
*      ph_id           - 1 to 70
*      appl            - FCPVN_CA
*      dur             - second(s)
*      phtext65        - (see the following)
*
*      ------------------------------------------------------------
*       ph_id     appl         dur     phtext65
```

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```
*      ------------------------------------------------------------
*       1-46      FCPVN_CA   1   [as specified for flexible digit
*                                    strings]
*        47       FCPVN_CA  11   Dial Tone
*        48       FCPVN_CA  11   Recall Dial Tone
*        49       FCPVN_CA  21   Reorder Tone
*        50       FCPVN_CA   1   We're sorry.
*        51       FCPVN_CA   3   We cannot complete your call at
*                                   this time.
*        52       FCPVN_CA   3   Please hang up and try your call
*                                   again later.
*        53       FCPVN_CA   2   The number you have dialed ...
*        54       FCPVN_CA   2   ... is not correct.
*        55       FCPVN_CA   2   ... has been disconnected.
*        56       FCPVN_CA   3   The call you are attempting is not
*                                  authorized.
*        57       FCPVN_CA   3   We cannot complete your call as
*                                  dialed.
*        58       FCPVN_CA   3   Please hang up, check the number,
*                                  and try again.
*        59       FCPVN_CA   2   Please dial now
*        60       FCPVN_CA   3   Dial your Personal Identification
*                                   Number.
*        61       FCPVN_CA   4   The Personal Identification Number
*                                   you have dialed is not valid.
*        62       FCPVN_CA   3   Dial your Personal Identification
*                                   Number again.
*        63       FCPVN_CA   2   Please dial the number to be
*                                   called.
*        64       FCPVN_CA   4   The digits you dialed are not a
*                                   valid telephone number.
*        65       FCPVN_CA   3   Please dial the number to be
*                                   called again.
*        66       FCPVN_CA   3   Please dial the authorization code.
*        67       FCPVN_CA   4   The authorization code you have
*                                   dialed is not valid.
*        68       FCPVN_CA   3   Please dial the authorization code
*                                    again now.
*        69       FCPVN_CA   3   The number you have dialed has
*                                    been changed.
*        70       FCPVN_CA   4   Please call your private network
*                                    operator for assistance.
*
*
*************************************************************************/

************************************************************************
*                      Application Specific Population Rules for
*                          LASS 2-Level Activation of Customer Originated
*                          Trace (COT) and Automatic Callback (AC)
*
*
*
* DESCRIPTION:
```

```
*
*
*       Defines the phrase IDs for the LASS 2-Level Activation of
*       Customer Originated Trace (COT) and Automatic Callback (AC)
*       capability announcements as specified on the DSU2-RAF
*       announcement Storage Circuit (ASC) packs and SAS circuit packs.
*
*
*
* QUANTITY OF TUPLES;
*
*        122 TUPLES
*
*
* TUPLE SEMANTICS:
*
*
*
*        ph_id          - 1 to 46,65,98, 104 to 177
*        appl           - FCLS_2LEVEL
*        dur            - second(s)
*        phtext65       - (see the following)
*
*
*
*      ------------------------------------------------------------
*      ph_id      appl      dur  phtext65
*      ------------------------------------------------------------
*      1-46    FCLS_2LEVEL  1 [as specified for flexible digit
*                                 strings]
*       65     FCLS_2LEVEL  1  We're sorry.
*       98     FCLS_2LEVEL  2  (Prompt tone 300ms of 400HZ tone)
*      104     FCLS_2LEVEL  1  This is
*      105     FCLS_2LEVEL  2  your automatic callback service.
*      106     FCLS_2LEVEL  2  your call return service.
*      107     FCLS_2LEVEL  3  The number of your last incoming
*                                 call is
*      108     FCLS_2LEVEL  3  a private number and cannot be
*                                 announced.
*      109     FCLS_2LEVEL  2  The call was received
*      110     FCLS_2LEVEL  1  at
*      111     FCLS_2LEVEL  2  To activate
*      112     FCLS_2LEVEL  2  automatic callback
*      113     FCLS_2LEVEL  2  call return
*      114     FCLS_2LEVEL  2  dial 1,
*      115     FCLS_2LEVEL  2  otherwise hang up.
*      116     FCLS_2LEVEL  3  Please dial 1 now or hang up.
*      117     FCLS_2LEVEL  3  There will be a charge for this
*                                 service.
*      118     FCLS_2LEVEL  2  Please hang up now.
*      119     FCLS_2LEVEL  3  You must dial one to activate
*      120     FCLS_2LEVEL  1  the callback,
*      121     FCLS_2LEVEL  2  the call return,
*      122     FCLS_2LEVEL  3  your customer originated trace
```

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```
*                                  service.
*      123     FCLS_2LEVEL  2  your call trace service.
*      124     FCLS_2LEVEL  3  The charge for this service will be
*      125     FCLS_2LEVEL  1  dollar    (flat)
*      126     FCLS_2LEVEL  1  dollars   (flat)
*      127     FCLS_2LEVEL  1  dollar.   (falling)
*      128     FCLS_2LEVEL  1  dollars.  (falling)
*      129     FCLS_2LEVEL  1  and
*      130     FCLS_2LEVEL  1  cents.    (falling)
*      131     FCLS_2LEVEL  3  To trace your last incoming call,
*      132     FCLS_2LEVEL  3  You must dial one to trace the call,
*      133     FCLS_2LEVEL  1  January
*      134     FCLS_2LEVEL  1  February
*      135     FCLS_2LEVEL  1  March
*      136     FCLS_2LEVEL  1  April
*      137     FCLS_2LEVEL  1  May
*      138     FCLS_2LEVEL  1  June
*      139     FCLS_2LEVEL  1  July
*      140     FCLS_2LEVEL  1  August
*      141     FCLS_2LEVEL  1  September
*      142     FCLS_2LEVEL  1  October
*      143     FCLS_2LEVEL  1  November
*      144     FCLS_2LEVEL  1  December
*      145     FCLS_2LEVEL  1  a.m.
*      146     FCLS_2LEVEL  1  p.m.
*      147     FCLS_2LEVEL  1  1st
*      148     FCLS_2LEVEL  1  2nd
*      149     FCLS_2LEVEL  1  3rd
*      150     FCLS_2LEVEL  1  4th
*      151     FCLS_2LEVEL  1  5th
*      152     FCLS_2LEVEL  1  6th
*      153     FCLS_2LEVEL  1  7th
*      154     FCLS_2LEVEL  1  8th
*      155     FCLS_2LEVEL  1  9th
*      156     FCLS_2LEVEL  1  10th
*      157     FCLS_2LEVEL  1  11th
*      158     FCLS_2LEVEL  1  12th
*      159     FCLS_2LEVEL  1  13th
*      160     FCLS_2LEVEL  1  14th
*      161     FCLS_2LEVEL  1  15th
*      162     FCLS_2LEVEL  1  16th
*      163     FCLS_2LEVEL  1  17th
*      164     FCLS_2LEVEL  1  18th
*      165     FCLS_2LEVEL  1  19th
*      166     FCLS_2LEVEL  1  20th
*      167     FCLS_2LEVEL  1  30th
*      168     FCLS_2LEVEL  3  Consult your written instructions
*                               and try again later.
*      169     FCLS_2LEVEL  3  If you choose to trace your last
*                                incoming call,
*      170     FCLS_2LEVEL  4  you will be charged a fee as
*                                described in your instruction
*                                guide.
*      171     FCLS_2LEVEL  1  extension
```

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```
 *      172     FCLS_2LEVEL  2  Customer Originated Trace.
 *      173     FCLS_2LEVEL  3  To trace the last call received,
 *      174     FCLS_2LEVEL  2  The last incoming number was
 *      175     FCLS_2LEVEL  2  This call was received on
 *      176     FCLS_2LEVEL  3  To activate Automatic Recall,
 *      177     FCLS_2LEVEL  3  The number of your last incoming
 *                                 call was
 ********************************************************************/"

/*************************************************************
 *
 *               Application Specific Population Rules for
 *              Toll Digital Exchange (TDX) account code collection
 *
 *
 * DESCRIPTION:
 *
 *      Defines the phrase IDs for the Toll Digital Exchange (TDX)
 *      announcements as specified on the SAS circuit packs.
 *
 *
 * QUANTITY OF TUPLES:
 *
 *      49 tuples
 *
 *
 * TUPLE SEMANTICS:
 *
 *      ph_id           - 1 to 49
 *      appl            - FCTOLL_ACCT
 *      dur             - second(s)
 *      phtext65        - (see the following)
 *
 *     ------------------------------------------------------------
 *      ph_id      appl         dur     phtext65
 *     ------------------------------------------------------------
 *      1-46       FCTOLL_ACCT   1   [as specified for flexible
 *                                                 digit strings]
 *        47       FCTOLL_ACCT   2      Please enter your
 *        48       FCTOLL_ACCT   2      digit account code.
 *        49       FCTOLL_ACCT   1      Thank you.
 *
 *
 *************************************************************/
```

## 5. PHRASES Population rules continued.

```
/*************************************************************
*               Application Specific Population Rules for
*               IS 53A Preferred Language
*
* Description:
*       defines the phrase IDs for the IS 53A Preferred Language
*       Autoplex(R) announcements.
```

```
*
* Quantity of tuples:
*       128 tuples per language
*
* Tuples Semantics:
*
*       ph_id           - 32768 thru 65535
*       appl            - FCVARRAF
*       dur             - second(s)
*       phtext65        - (see the following)
*
*-------------------------------------------------------------
*       ph_id           appl       dur   phtext65
*-------------------------------------------------------------
*       32768-32895     FCVARRAF         [PL Tone definitions]
*       32896-33023     FCVARRAF         [as defined for
*                                         language 1]
*       33024-33151     FCVARRAF         [as defined for
*                                         language 2]
*       33152-33279     FCVARRAF         [as defined for
*                                         language 3]
*       33280-33407     FCVARRAF         [as defined for
*                                         language 4]
*       33408-65535     FCVARRAF         [reserved  for
*                                         language 5 thru 255]
*
*/
```

**Attribute:**
ph_id
**Fullname:**
phrase id
**Attribute Description:**
This attribute identifies the exact phrase id (number) of a given announcement.

**Attribute:**
appl
**Fullname:**
application
**Attribute Description:**
Identifies the application of the announcement.

**Attribute:**
dur
**Fullname:**
duration
**Attribute Description:**
This value represents the number of seconds, rounded up, of the duration of the spoken message phrase.

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**Attribute:**
phtext65
**Fullname:**
phrase text
**Attribute Description:**
This array is used to store a maximum of 65 characters from any spoken message phrase. Any additional characters in the spoken message phrase will simply be left off.

**Attribute:**
oaff1
**Fullname:**
Spare field 1
**Attribute Description:**
Spare field for fast features.

**Attribute:**
oaff2
**Fullname:**
Language Indicator
**Attribute Description:**
Used to indicate the language associated with this phrase for the Preferred Language feature as follows:
0 UNKNOWN
1 ENGLISH
2 FRENCH
6 CANTONESE
7 MADARIN

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# PHRTCONG

## 1. Description

This relation defines the congestion onset and abatement thresholds for the transmission and retransmission buffers used by an Telecommunicaton Standarization Sector (ITU-TS) Signaling Terminal Protocol Handler (ST-PH). It also defines the transmission rate of Message Signal Units (MSUs) over an Signaling Data Link (SDL), connect to that ST-PH. This relation is used for either a single congestion level or for multiple congestion levels (that is, Levels 1 through 3). In the case of multiple levels, Level 3 is the highest level of congestion. In the case of a single level, the Level 3 attributes hold the threshold values while the attributes for Levels 1 and 2 are unused.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 256 |
| expected number of tuples | 4 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCphrtcong |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
PHRTCONG    relid = 2516  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     portname    DMPORT       (ushort)     <--- key
     lvl3rtonset  DMUNS7       (ushort: 7)
     lvl3rtabate  DMUNS7       (ushort: 7)
     lvl3rtdisc  DMUNS7       (ushort: 7)
     lvl3tonset  DMUNS7       (ushort: 7)
     lvl3tabate  DMUNS7       (ushort: 7)
     lvl3tdisc   DMUNS7       (ushort: 7)
     lvl2rtonset  DMUNS7       (ushort: 7)
     lvl2rtabate  DMUNS7       (ushort: 7)
     lvl2rtdisc  DMUNS7       (ushort: 7)
     lvl2tonset  DMUNS7       (ushort: 7)
     lvl2tabate  DMUNS7       (ushort: 7)
     lvl2tdisc   DMUNS7       (ushort: 7)
     lvl1rtonset  DMUNS7       (ushort: 7)
     lvl1rtabate  DMUNS7       (ushort: 7)
     lvl1rtdisc  DMUNS7       (ushort: 7)
     lvl1tonset  DMUNS7       (ushort: 7)
     lvl1tabate  DMUNS7       (ushort: 7)
     lvl1tdisc   DMUNS7       (ushort: 7)
     trate       DMUNS4       (ushort: 4)
         User, Compacted and Stored Tuple Layout   PHRTCONG
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |   |
  0 |            portname           | lvl3rtonset | lvl3rtabate |***|
    |---------------+---------------+---------------+---------------|
    |             |             |   |               |               |   |
```

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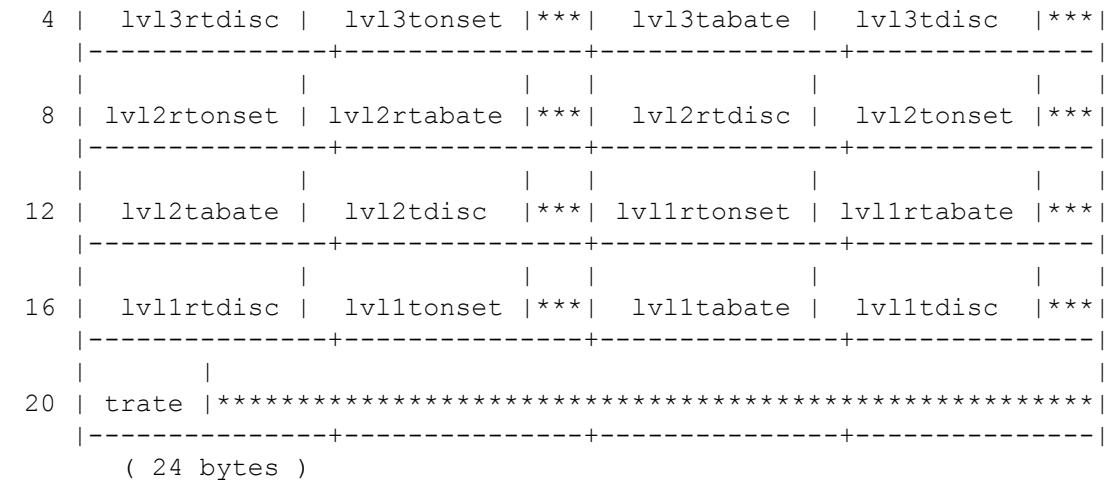


## 4. Population Rules for RLphrtcong

**Relation Description**
Protocol Handler Retransmission/Transmission Congestion.

This relation defines the congestion onset, abatement and discard thresholds for the retransmission and transmission buffers used by Signaling Data Links (SDL) for Telecommunicaton Standarization Sector (ITU-TS). This relation allows for the limitation of the Message Signal Units (MSU) that are transmitted every 20 msec. A default of zero being defined as no limitation to the number of transmitted MSU and no timing constrictions. This relation is used for either a single congestion level, for multiple congestion levels, or Multiple Congestion Levels with Priorities (that is, Levels 1 through 3). All threshold values are in terms of the percent fill of the buffer space. In the case of a single level, the Level 3 attributes hold the threshold values while the attributes for Levels 1 and 2 are unused. In the case of multiple congestion levels, Level 1 is the lowest, and Level 3 is the highest. At the onset of congestion, when the buffer occupancy is increasing, the signaling link (SL) congestion status is determined by the highest congestion onset threshold exceeded by the buffer occupancy. That is, if congestion onset threshold n is the highest congestion onset threshold exceeded by the current buffer occupancy, the current SL congestion status is assigned the value n. At the abatement of congestion, when the buffer occupancy is decreasing, the SL congestion status is determined by the lowest congestion abatement threshold under which the buffer occupancy has dropped. That is, if congestion abatement threshold n is the lowest congestion abatement threshold under which the current buffer occupancy has dropped, the current SL congestion status is assigned the value n - 1.' The maximum value for the transmission rate of MSUs has been restricted to 8. It is envisaged however that in future generics this value maybe too low. To allow for this the RDL domain used for the attribute trate is larger than currently required. So if at some point in the future a larger value is needed only a population rule change will be required to accomplish this. (A potential maximum value of 15 is foreseen to be more than enough for all future requirements). The value zero for the transmission rate of the MSU's is defined to be the lifting of all limitations concerning the rate of transmission and all timing constrictions.

**Attribute: portname**

**Fullname:** Signaling Terminal Port Name.

**Attribute Description** This attribute is used to identify a SDL which terminates on a ST DLT port on a Global SM.

**Attribute: lvl3rtonset**

**Fullname:** Level 3 congestion onset threshold for retransmission buffer.

**Attribute Description** For single level congestion, this attribute indicates the percent fill of the

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re-transmission buffer before congestion occurs (that is, lvl3rtonset - 1). When this threshold is reached the buffer is marked as congested, and a message is sent to the Signaling Traffic Route Management (STRM) process in the SM where this relation is located. This tells STRM the current congestion level of the SDL as indicated by attribute 'portname'. For Multiple Congestion Levels, when the retransmission buffer occupancy exceeds the value of this threshold, Level 3 congestion treatment is in effect.

**Attribute: lvl3rtabate**

**Fullname:** Level 3 congestion abatement threshold for retransmission buffer.

**Attribute Description** For single level congestion, this attribute indicates the percent of fill this buffer must obtain for congestion to abate once it has occurred. When this threshold is reached the buffer is marked as uncongested (if it was previously marked as congested), and a message is sent to the Signaling Traffic and Route Management (STRM) process in the SM where this relation is located. This tells STRM the current congestion level of the SDL. For Multiple Congestion Levels, when the retransmission buffer occupancy decreases under the value of this threshold, Level 2 congestion treatment is in effect.

**Attribute: lvl3rtdisc**

**Fullname:** Level 3 congestion discard threshold for re-transmission buffer.

**Attribute Description** For Multiple Congestion Levels, when the percentage fill of the re-transmission buffer occupancy exceeds the value of this threshold, messages of lower priorities will be discarded.

**Attribute: lvl3tonset**

**Fullname:** Level 3 congestion onset threshold for transmission buffer.

**Attribute Description** For single level congestion this defines the percent fill of of the transmission buffer before congestion occurs (lvl3tonset - 1). When congestion does occur STRM is informed the current congestion level of the SDL. For Multiple Congestion Levels, when the transmission buffer occupancy exceeds the value of this threshold, Level 3 congestion treatment is in effect.

**Attribute: lvl3tabate**

**Fullname:** Level 3 congestion abatement threshold for transmission buffer.

**Attribute Description** For single level congestion, this defines the percentage fill of the transmission buffer that must be reached for congestion to abate once it has occurred. When this happens STRM is informed the current congestion level of the SDL. For Multiple Congestion Levels, when the transmission buffer occupancy decreases under the value of this threshold, Level 2 congestion treatment is in effect.

**Attribute: lvl3tdisc**

**Fullname:** Level 3 congestion discard threshold for transmission buffer.

**Attribute Description** For Multiple Congestion Levels, when the percentage fill of the transmission buffer occupancy exceeds the value of this threshold, messages of lower priorities will be discarded.

**Attribute: lvl2rtonset**

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**Fullname:** Level 2 congestion onset threshold for retransmission buffer.

**Attribute Description** Defines the percent fill, which when exceeded by the retransmission buffer occupancy will trigger the beginning of Level 2 congestion treatment.

**Attribute: lvl2rtabate**

**Fullname:** Level 2 congestion abatement threshold for retransmission buffer.

**Attribute Description** Defines the percent fill, which the retransmission buffer occupancy must drop under for Level 2 congestion to abate and or Level 1 congestion treatment to be in effect.

**Attribute: lvl2rtdisc**

**Fullname:** Level 2 congestion discard threshold for re-transmission buffer.

**Attribute Description** For Multiple Congestion Levels, when the percentage fill of the re-transmission buffer occupancy exceeds the value of this threshold, messages of lower priorities will be discarded.

**Attribute: lvl2tonset**

**Fullname:** Level 2 congestion onset threshold for transmission buffer.

**Attribute Description** Defines the percent fill, which when exceeded by the transmission buffer occupancy will trigger the beginning of Level 2 congestion treatment.

**Attribute: lvl2tabate**

**Fullname:** Level 2 congestion abatement threshold for transmission buffer.

**Attribute Description** Defines the percent fill, which the transmission buffer occupancy must drop under for Level 2 congestion to abate and for Level 1 congestion treatment to be in effect.

**Attribute: lvl2tdisc**

**Fullname:** Level 2 congestion discard threshold for transmission buffer.

**Attribute Description** For Multiple Congestion Levels, when the percentage fill of the transmission buffer occupancy exceeds the value of this threshold, messages of lower priorities will be discarded.

**Attribute: lvl1rtonset**

**Fullname:**

**Attribute Description** Defines the percent fill, which when exceeded by the retransmission buffer occupancy will trigger the beginning of Level 1 congestion treatment.

**Attribute: lvl1rtabate**

**Fullname:** Level 1 congestion abatement threshold for retransmission buffer.

**Attribute Description** Defines the percentage fill of the following re-transmission buffer which Level 1 congestion will abate.

**Attribute: lvl1rtdisc**

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**Fullname:** Level 1 congestion discard threshold for re-transmission buffer.

**Attribute Description** For Multiple Congestion Levels, when the percentage fill of the re-transmission buffer occupancy exceeds the value of this threshold, messages of lower priorities will be discarded.

**Attribute: lvl1tonset**

**Fullname:** Level 1 congestion onset threshold for transmission buffer.

**Attribute Description** Defines the percent fill, which when exceeded by the transmission buffer occupancy will trigger the beginning of Level 1 congestion treatment.

**Attribute: lvl1tabate**

**Fullname:** Level 1 congestion abatement threshold for transmission buffer.

**Attribute Description** Defines the percentage fill of the following transmission buffer which Level 1 congestion will abate.

**Attribute: lvl1tdisc**

**Fullname:** Level 1 congestion discard threshold for transmission buffer.

**Attribute Description** For Multiple Congestion Levels, when the percentage fill of the transmission buffer occupancy exceeds the value of this threshold, messages of lower priorities will be discarded.

**Attribute: trate**

**Fullname:** Rate of MSU transmission per 20 millisec cycle.

**Attribute Description** The DEFAULT value (0) is defined to be the unlimited transmission of MSU's with no time limitation to constrict the flow of messages. The values 1 - 8 defines how many MSU's may be transmitted every 20 millisecs.

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# PICB

## 1. Description

This relation contains the peripheral interface control bus.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 782 |
| expected number of tuples | 20 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | DBpicbtrg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| permutation type | un_perm |
| density | 100 |

## 3. Field Layout

```
PICB        relid = 46    DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     picb        DMPICB       (ushort)  <--- key
     pidb        DMPIDB       (ushort)
     pidb2       DMPIDB       (ushort)
     esraddr     DMCTRLADRS   (ulong)
     unitnum     DMUNITNO     (ushort: 8)
     esrsize     DMUCHAR      (uchar)
     dmsgpicb    DMPICB       (ushort)
     dsgcpicb    DMPICB       (ushort)
     sg          DMUNS5       (ushort: 5)
     unittype    DMUNITTYPE   (enum: 7)
     brd0type    DMDSUEQUIP   (enum: 8)
     brd1type    DMDSUEQUIP   (enum: 8)
     brd2type    DMDSUEQUIP   (enum: 8)
     brd3type    DMDSUEQUIP   (enum: 8)
     brd4type    DMDSUEQUIP   (enum: 8)
     brd5type    DMDSUEQUIP   (enum: 8)
     brd6type    DMDSUEQUIP   (enum: 8)
     brd7type    DMDSUEQUIP   (enum: 8)
     brd8type    DMDSUEQUIP   (enum: 8)
     brd9type    DMDSUEQUIP   (enum: 8)
     brd10type   DMDSUEQUIP   (enum: 8)
     brd11type   DMDSUEQUIP   (enum: 8)
     brd12type   DMDSUEQUIP   (enum: 8)
     brd13type   DMDSUEQUIP   (enum: 8)
     brd14type   DMDSUEQUIP   (enum: 8)
     brd15type   DMDSUEQUIP   (enum: 8)
     brd16type   DMDSUEQUIP   (enum: 8)
     brd17type   DMDSUEQUIP   (enum: 8)
     brd18type   DMDSUEQUIP   (enum: 8)
     brd19type   DMDSUEQUIP   (enum: 8)
     brd20type   DMDSUEQUIP   (enum: 8)
```

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```
    brd21type   DMDSUEQUIP   (enum: 8)
    brd22type   DMDSUEQUIP   (enum: 8)
    brd23type   DMDSUEQUIP   (enum: 8)
    brd24type   DMDSUEQUIP   (enum: 8)
    brd25type   DMDSUEQUIP   (enum: 8)
    brd26type   DMDSUEQUIP   (enum: 8)
    brd27type   DMDSUEQUIP   (enum: 8)
    brd28type   DMDSUEQUIP   (enum: 8)
    brd29type   DMDSUEQUIP   (enum: 8)
    brd30type   DMDSUEQUIP   (enum: 8)
    brd31type   DMDSUEQUIP   (enum: 8)
        User, Compacted and Stored Tuple Layout   PICB
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |              picb             |              pidb             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |             pidb2             |*******************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 8 |                           esraddr                             |
   |---------------+---------------+---------------+---------------|
   |               |               |                               |
12 |    unitnum    |    esrsize    |            dmsgpicb           |
   |---------------+---------------+---------------+---------------|
   |                               |         |     |             | |
16 |            dsgcpicb           |    sg   |*****|   unittype  |*|
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
20 |    brd0type   |    brd1type   |    brd2type   |    brd3type   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
24 |    brd4type   |    brd5type   |    brd6type   |    brd7type   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
28 |    brd8type   |    brd9type   |   brd10type   |   brd11type   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
32 |   brd12type   |   brd13type   |   brd14type   |   brd15type   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
36 |   brd16type   |   brd17type   |   brd18type   |   brd19type   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
40 |   brd20type   |   brd21type   |   brd22type   |   brd23type   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
44 |   brd24type   |   brd25type   |   brd26type   |   brd27type   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
48 |   brd28type   |   brd29type   |   brd30type   |   brd31type   |
   |---------------+---------------+---------------+---------------|
```

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```
       ( 52 bytes )


domain alPICB     struct  (11 sub-attributes)
         picb        unsigned short (ushort)
         pidb        unsigned short (ushort)
         pidb2       unsigned short (ushort)
         esraddr     unsigned long (ulong)
         unitnum     .34.fake     (ushort)
         esrsize     unsigned char (uchar)
         dmsgpicb    unsigned short (ushort)
         dsgcpicb    unsigned short (ushort)
         sg          .35.fake     (ushort: 5)
         unittype    .0fake       (enum)
         brdtype     .36.fake     (array [ 32 ] of .1fake )
                     Structure Layout    alPICB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |               picb            |               pidb            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             pidb2             |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                           esraddr                             |
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
 12 |    unitnum    |    esrsize    |            dmsgpicb           |
    |---------------+---------------+---------------+---------------|
    |                               |         |     |             | |
 16 |            dsgcpicb           |    sg   |*****|   unittype  |*|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                           brdtype                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 24 |                           brdtype                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 28 |                           brdtype                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 32 |                           brdtype                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 36 |                           brdtype                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 40 |                           brdtype                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 44 |                           brdtype                             |
```

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```
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                       |
 48 |                           brdtype                                     |
    |---------------+---------------+---------------+---------------|
       ( 52 bytes )
```

## 4. Population rules for RLpicb

### Relation Description

Peripheral Interface Control Bus

Peripheral interface control bus. List all picb numbers that appear in CKTDATA relation for all units

RLpicb (SLC(R) 96 CC PICB)

DESCRIPTION:

Assigns SDFI Common Control (CC) PICBs to a DCLU. One CC PICB is assigned to each DCLU service group.

KEY FORMAT:

```
   ---------------------------------
   |            CC PICB            |
   |-------------------------------|
   |           |                   |
   |   CI NO.  |   CI PICB NO.     |
   |           |                   |
   |---|---|---|---|---|---|---|---|
     7   6   5   4   3   2   1   0
```

CI NO. - Control Interface 0 or 1
CI PICB NO. - PICB number relative to a CI (0 to 22)
(PICB 0 and 1 on CI 0 reserved for the LDSU)
(PICBs 23 reserved for maintenance)

QUANTITY OF TUPLES:

1 tuple per DCLU service group

even numbered PICB to service group 0
odd numbered PICB to service group 1

TUPLE SEMANTICS:

name (KEY) - CC PICB
pidb - PIDB A
pidb2 - 0x7F (Default value)

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```
       sg - service_group (0 through 1)
       esraddr - CC PICB shifted left 1 byte
       unitnum - DCLU unit number (0 through 7)
       esrsize - 8
       dmsgpicb - CC PICB on opposite service group
       dsgcpicb - DC PICB on same service group
       unittype - SMDCLU
       brd0type - PCSLCC
       brd1type through brd31type - PCNOBRD


                RLpicb (SLC(R) 96 DC PICB)


DESCRIPTION:

       Assigns SDFI Control (DC) PICBs to a DCLU. One
       DC PICB is assigned to each DCLU service group.

KEY FORMAT:


    ---------------------------------
    |             DC PICB           |
    |-------------------------------|
    |           |                   |
    |   CI NO.  |   CI PICB NO.     |
    |           |                   |
    |---|---|---|---|---|---|---|---|
      7   6   5   4   3   2   1   0

    CI NO. - Control Interface 0 or 1
    CI PICB NO. - PICB number relative to a CI (0 to 22)
                  (PICB 0 and 1 on CI 0 reserved for the LDSU)
                   (PICBs 23 reserved for maintenance)


QUANTITY OF TUPLES:

       1 tuple per DCLU service group

               even numbered PICB to service group 0
               odd numbered PICB to service group 1

TUPLE SEMANTICS:

       name (KEY) - DC PICB
       pidb - 0
       pidb2 - 0x7F (Default value)
       sg - service_group (0 through 1)
       esraddr - DC PICB shifted left 1 byte
       unitnum - DCLU unit number (0 through 7)
       esrsize - 8
       dmsgpicb - DC PICB on opposite service group
```

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```
      dsgcpicb - CC PICB on same service group
      unittype - SMDCLU
      brd0type - PCSLDC
      brd1type through brd31type - PCNOBRD


              RLpicb (MSU DFTAC circuit)


 DESCRIPTION:

      Assigns correct base address and brdtype for MSU
      Distributing Frame Test Access Circuit (DFTAC) TN1040
      circuit.


 QUANTITY OF TUPLES:

      1 tuple for each MSU service group. The DFTAC is
      a subtending circuit.

              even numbered PICB to service group 0
              odd numbered PICB to service group 1

TUPLE SEMANTICS:

      name (KEY) - picb number of MSU service group
      pidb - 0
      pidb2 - 0x7F (Default value)
      sg      - service_group (0 through 1)
      esraddr - picb shifted left 1 byte
      unitnum - MSU unit number
      esrsize - 16
      dmsgpicb - d7
      dsgcpicb - d7
      unittype - SMMODMSU
      brd0type - brd31type if the DFTAC is placed in a
                 particular board position 0-31 the value
                 should be PCDFTACBRD

              RLpicb (PSIU CC PICB)


 DESCRIPTION:

      Assigns a Common Control PICB to a PSIU. There is
      one CC PICB assigned to each PSIU Common Controller
      side.

 KEY FORMAT:

   ---------------------------------
   |            CC PICB            |
   |--------------------------------
```

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```
   |           |                   |
   |   CI NO.  |   CI PICB NO.     |
   |           |                   |
   |---|---|---|---|---|---|---|---|
     7   6   5   4   3   2   1   0
```

CI NO. - Control Interface 0 or 1
CI PICB NO. - PICB number relative to a CI (0 to 22)
(PICB 0 and 1 on CI 0 reserved for the LDSU)
(PICBs 23 reserved for maintenance)

QUANTITY OF TUPLES:

1 tuple per PSIU Common Controller Side

The PICBs must be assigned consecutively as follows:
Even PICB to PSIU Common Controller Side-0
Odd PICB to PSIU Common Controller Side-1

TUPLE SEMANTICS:

name (KEY) - CC PICB
pidb - System PIDB# assigned to Shelf-0, DF-0, Connection-0 on the Common Controller associated with this PICB
In the case where PCT link is used in shelf 0 this attribute will be set to 0x7f (SMNULPIDB).
This attribute is independent from the connection type used in shelf 1 thru 4.
pidb2 - 0x7F (Default value)
sg - service_group (0 through 1)
esraddr - CC PICB shifted left 1 byte
unitnum - 0 (The PSIU is only a single unit)
esrsize - 16
dmsgpicb - CC PICB assigned to the mate PSIU Common Controller
dsgcpicb - 0xd7 (Default value as there is no companion PICB)
unittype - SMPSIU
brd0type - PCNOBRD
brd1type through brd31type - PCNOBRD

## RLpicb (ISLU(2) CC PICB)

DESCRIPTION:

Assigns a Common Control PICB to an ISLU(2). There is one CC PICB assigned to each ISLU(2) Common Controller side.

KEY FORMAT:

```
   ---------------------------------
   |            CC PICB            |
   |--------------------------------
```

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```
|           |                   |
|   CI NO.  |   CI PICB NO.     |
|           |                   |
|---|---|---|---|---|---|---|---|
  7   6   5   4   3   2   1   0
```

CI NO. - Control Interface 0 or 1
CI PICB NO. - PICB number relative to a CI (0 to 22)
(PICB 0 and 1 on CI 0 reserved for the LDSU)
(PICBs 23 reserved for maintenance)

QUANTITY OF TUPLES:

1 Tuple per ISLU(2) Common Controller Side

The PICBs must be assigned consecutively as follows:
Even PICB to ISLU(2) Common Controller Side-0
Odd PICB to ISLU(2) Common Controller Side-1

TUPLE SEMANTICS:

name (KEY) - CC PICB
pidb - System PIDB# assigned to CD-0 Connection-0
pidb2 - 0x7F (Default value)
sg - service_group (0 through 1)
esraddr - CC PICB shifted left 1 byte
unitnum - Line Unit Number
(0-7) for SMs
(0-42) for SM-2000 SMs, ISLU2 only
esrsize - 16
dmsgpicb - CC PICB assigned to the mate Common Controller
dsgcpicb - 0xd7 ( Default value as there is no companion PICB)
unittype - SMISLU or SMISLU2
brd0type through brd31type - PCNOBRD

RLpicb ((*)AIU CC PICB)

DESCRIPTION:

Assigns a Common Control PICB to an (*)AIU. There is one
CC PICB assigned to each (*)AIU COMDAC.

KEY FORMAT:

(SEE DMpicb.G for additional help picture of PICB relation)

CI NO. - Control Interface 0 or 1
- Control Interface 0 to 3 for SM-2000 SMs
CI PICB NO. - PICB number relative to a CI (0 to 22)
(PICB 0 and 1 on CI 0 reserved for the LDSU)

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(PICBs 23 reserved for maintenance)

QUANTITY OF TUPLES:

1 Tuple per (*)AIU COMDAC

The PICBs must be assigned consecutively as follows for AIU:
Even PICB to AIU COMDAC 0
Odd PICB to AIU COMDAC 1

The PICBs must be assigned as follows for (*)AIU
Even PICB to AIU COMDAC 0
Odd PICB to AIU COMDAC 1

Note that (*)AIU PICBs for COMDAC0 and COMDAC1 don't have to be consecutive but they have to be odd and even

TUPLE SEMANTICS:

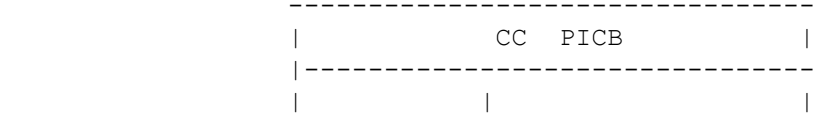
name (KEY) - CC PICB
pidb - System PIDB# assigned to COMDAC 0 Connection-0
pidb2 - 0x7F (Default value)
sg - service_group (0 through 1)
esraddr - CC PICB shifted left 1 byte
unitnum - Access Interface Unit Number
(0-14) for SMs
(0-42) for SM-2000 SMs
esrsize - 16
dmsgpicb - CC PICB assigned to the mate Common Controller
dsgcpicb - 0xd7 ( Default value as there is no companion PICB)
unittype - {SMAIU,SMRAIU,SMXAIU}
brd0type through brd31type - PCNOBRD

RLpicb (RISLU CC PICB)

DESCRIPTION:

Assigns a Common Control PICB to a RISLU. There is one CC PICB assigned to each RISLU Common Controller side. The PICB is connected to a DFI-H1 pack, which extends the PICB to the CC in the remoted ISLU.

KEY FORMAT:

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```
|   CI NO.  |   CI PICB NO.     |
|           |                   |
|---|---|---|---|---|---|---|---|
  7   6   5   4   3   2   1   0
```

CI NO. - Control Interface 0 or 1
CI PICB NO. - PICB number relative to a CI (0 to 22)
(PICB 0 and 1 on CI 0 reserved for the LDSU)
(PICBs 23 reserved for maintenance)

QUANTITY OF TUPLES:

1 Tuple per RISLU Common Controller Side

The PICBs must be assigned consecutively as follows:
Even PICB to RISLU Common Controller Side-0
Odd PICB to RISLU Common Controller Side-1

TUPLE SEMANTICS:

name (KEY) - CC PICB
pidb - System PIDB# assigned to CD-0 Connection-0
pidb2 - 0x7F (Default value)
sg - service_group (0 through 1)
esraddr - CC PICB shifted left 1 byte
unitnum - Line Unit Number (0-7)
esrsize - 16
dmsgpicb - CC PICB assigned to the mate Common Controller
dsgcpicb - PICB # assigned to the PICB that controls
the DFI-H1 that is used to remote the CC PICB
unittype - SMRISLU
brd0type through brd31type - PCNOBRD

RLpicb (RISLU DFI-H1 PICB)

DESCRIPTION:

Assigns a PICB to a RISLU DFI-H1 pack. There is one PICB assigned to each DFI-H1 pack. There are two DFI-H1 packs for each RISLU.

KEY FORMAT:

```
---------------------------------
|         DFI-H1  PICB          |
|-------------------------------|
|           |                   |
|   CI NO.  |   CI PICB NO.     |
|           |                   |
|---|---|---|---|---|---|---|---|
  7   6   5   4   3   2   1   0
```

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CI NO. - Control Interface 0 or 1
CI PICB NO. - PICB number relative to a CI (0 to 22)
(PICB 0 and 1 on CI 0 reserved for the LDSU)
(PICBs 23 reserved for maintenance)

QUANTITY OF TUPLES:

1 Tuple per RISLU DFI-H1 pack

TUPLE SEMANTICS:

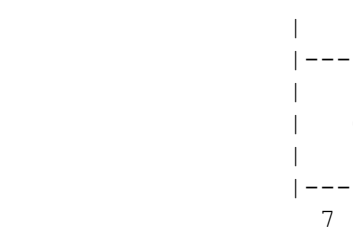
name (KEY) - DFI-H1 PICB
pidb - System PIDB# assigned to PIDB that is being
remoted through this DFI-H1
pidb2 - 0x7F (Default value)
sg - service_group (DFI number in DLTU-RH, 1-10)
esraddr - DFI-H1 PICB shifted left 1 byte
unitnum - DLTU-RH number
esrsize - 8
dmsgpicb - DFI-H1 PICB # assigned to the mate DFI-H1
dsgcpicb - PICB # assigned to the PICB that is being
extended to the remoted ISLU CC through
this DFI-H1
unittype - SMDLTURH
brd0type through brd31type - PCNOBRD

## RLpicb (RISLU DFI-H2 PICB)

DESCRIPTION:

Assigns a PICB to a RISLU DFI-H2 pack. There is one PICB assigned to each DFI-H2 pack.

KEY FORMAT:




CI NO. - Control Interface 0 or 1
CI PICB NO. - PICB number relative to a CI (0 to 22)
(PICB 0 and 1 on CI 0 reserved for the LDSU)
(PICBs 23 reserved for maintenance)

QUANTITY OF TUPLES:

```
       1 Tuple per RISLU DFI-H2 pack


TUPLE SEMANTICS:

       name (KEY) - DFI-H2 PICB
       pidb - System PIDB# assigned to PIDB that is being
              remoted through this DFI-H2
       pidb2 - 0x7F (Default value)
       sg      - service_group (DFI number in DLTU-RH,  1-10)
       esraddr - DFI-H2 PICB shifted left 1 byte
       unitnum - DLTU-RH number
       esrsize - 8
       dmsgpicb - 0xd7 (The default value as there is no
                  mate PICB)
       dsgcpicb - PICB # of the PICB controlling CC 0 for
                  this RISLU
       unittype - SMDLTURH
       brd0type through brd31type - PCNOBRD


                        RLpicb (RCLK)

DESCRIPTION:
       Assigns the RCLK PICBs to the RCLKU. There is one PICB
       assigned to an RCLK side.

QUANTITY OF TUPLES:

       2 tuples, one tuple for each RCLK side.

TUPLE SEMANTICS:

       picb (KEY)  - PICB number of the RCLK.
                     This is the upper byte of the RCLK
                     baseadd attribute in RLcktdata for
                     the circuit name.
       pidb        - 0
       pidb2       - 0x7F (Default value)
       sg          - service_group (0 through 1)
       esraddr     - The base address for the error source
                     register.
                       upper byte  = the picb attribute of
                                     this relation.
                       lower byte  = always 0x0
       unitnum     - 0
       esrsize     - 16
       dmsgpicb    - 0
       dsgcpicb    - 0
       unittype    - SMRCLKU
       brd0type through brd31type - PCNOBRD

               RLpicb (RAF common board)
```

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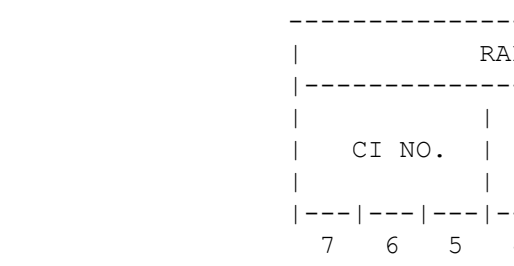
DESCRIPTION:

Assigns a PICB to an RAF. One PICB is assigned to each RAF.

KEY FORMAT:




CI NO. - Control Interface 0 or 1
CI PICB NO. - PICB number relative to a CI (0 to 22)
(PICB 0 and 1 on CI 0 reserved for the LDSU)
(PICBs 23 reserved for maintenance)

QUANTITY OF TUPLES:

1 tuple per RAF

TUPLE SEMANTICS:

picb (KEY) - RAF PICB
pidb - RAF PIDB
pidb2 - 0x7F (Default value)
sg - service_group (0 through 16)
esraddr - PICB (high order 8 bits) + 0
(low order 8 bits)
unitnum - 0-7 (RAF unit number)
esrsize - 16
dmsgpicb - 0xd7
dsgcpicb - 0xd7
unittype - SMRAF
brd0type through brd6type - PCANN, PCDTA, PCTDEC, PCCTR and PCNOBRD
PCANN indicates that a DSP is providing announcements.
PCDTA indicates that a DSP is providing dial-through announcements.
PCTDEC indicates that a DSP is providing tone decoding.
PCCTR indicates that a DSP is providing coin tone reception.
PCNOBRD indicates that a DSP is not assigned a service type.
These attributes refer to the types of services provided by the DSP's (0-6) found on the common board and correspond to the types of channels assigned to the common board in CKTDATA. Only one type of channel is allowed per common board. Therefore all channels

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```
            will either be ckttype PC_ANN or PC_DTA.
            If channel ckttype is PC_ANN then
                  assign brd0type through brd3type to PCNOBRD.
                  assign brd4type through brd6type to PCANN.
            If channel ckttype is PC_DTA and the
            digit decoder capability
            is to be provided,
                  assign brd0type through brd3type to PCTDEC.
                  assign brd4type through brd6type to PCDTA.
            If channel ckttype is PC_DTA and the
            coin tone receiver capability
            is to be provided,
                  assign brd0type through brd4type to PCCTR.
                  assign brd5type through brd6type to PCDTA.
      brd7type through brd31type - PCNOBRD

DEPENDENCIES:

      RLpidb - 1 tuple whose key is same as PIDB attribute.
      RLrc_loceq - 1 tuple keyed by SM number and PICB (+1).
      RLrc_eqloc - 1 tuple whose keys are SM number, Unit
              number, Service Group number, and Unit type.
      RLcktdata - tuples defining the channels associated with the
              common control for the RAF.

              RLpicb (SAS common board)



DESCRIPTION:

      Assigns a PICB to a SAS. One PICB is assigned to
      each SAS unit.

KEY FORMAT:

   ---------------------------------
   |           SAS PICB            |
   |-------------------------------|
   |           |                   |
   |   CI NO.  |   CI PICB NO.     |
   |           |                   |
   |---|---|---|---|---|---|---|---|
     7   6   5   4   3   2   1   0

   CI NO. - Control Interface 0 or 1
          - Control Interface 0 to 3 for SM-2000 SMs
   CI PICB NO. - PICB number relative to a CI (0 to 22)
                 (PICB 0 and 1 on CI 0 reserved for the LDSU)
                  (PICBs 23 reserved for maintenance)


QUANTITY OF TUPLES:
```

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```
        1 tuple per SAS

TUPLE SEMANTICS:

        picb (KEY) - SAS PICB
        pidb - SAS PIDB
        pidb2 - 0x7F (Default value)
        sg      - service_group (0 through 16)
        esraddr - PICB (high order 8 bits) + 0 (low order 8 bits)
        unitnum - 0-7 (SAS unit number)
        esrsize - 16
        dmsgpicb - 0xd7
        dsgcpicb - 0xd7
        unittype - SMSAS
        brd0type through brd7type - PCANN, PCDTA, PCTOPLAY,
                PCDTAM4, PCM4TOPLAY, and PCNOBRD.

                PCANN indicates that a DSP is providing announcements.

                PCDTA and PCDTAM4 indicates that a DSP is providing
                dial-through announcements.


                PCTOPLAY and PCM4TOPLAY that a DSP works in
                conjunction with the PCANN DSPs to provide
                playback of announcements.

                PCNOBRD indicates that a DSP is not assigned a service
                type.

                These attributes refer to the types of services provided
                by the DSP's (0-7) found on the common board and
                correspond to the types of channels assigned to the
                common board in CKTDATA.  Unlike the DSU2-RAF, multiple

                channels are allowed per common board.  However,
                if the coin tone reception or tone decoder capability
                is to be provided, the DSP type will be PCDTA.

                PCANN, PCDTAM4, and PCM4TOPLAY can only be assigned
                to brd0type through brd3type.  PCDTA and PCTOPLAY
                can only be assigned to brd4type through brd7type.
                DSPs should be assigned based on the following
                priority:

                  1. Assign all ANN DSPs needed to brd0-3type
                  2. Assign all DTA DSPs needed to brd4-7type
                  3. If not able to assign needed DTA DSPs
                     to brd4-7type, check available brd0-3type
                     and assign DTAM4 DSPs
                     (that is, if either brd0type, brd1type, brd2type,
                      or brd3type is PCNOBRD, assign PCDTAM4)
                  4. Assign all PCTOPLAY DSPs needed to brd4-7type
                  5. If not able to assign needed TOPLAY DSPs
```

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```
                    to brd4-7type, check available brd0-3type
                    and assign M4TOPLAY DSPs
                    (that is, if either brd0type, brd1type, brd2type,
                     or brd3type is PCNOBRD, assign PCM4TOPLAY)
      brd8type through brd31type - PCNOBRD

NOTE:
      1 PCANN DSP provides a maximum of 8 announcement playback
      1 PCDTAM4 DSP provides a maximum of 8  dial-through announcements
      1 PCDTA DSP provides a maximum of 16 dial-through announcements
      1 PCTOPLAY DSP provides a maximum of 32 outpulsing/playback
      1 PCM4TOPLAY DSP provides a maximum of 32 outpulsing/playback

      Fields DTA CNT, ANN CNT, and TDEC CNT on recent change view
      RC_EQRAS should be used to determine the number of DSPs
      that needs to be assigned to brd0-7types as follows:

      (DTA CNT + ANN CNT)/8  = total of PCANN DSPs
      (DTA CNT + TDEC CNT)/8 = total of PCDTAM4 DSPs
      (DTA CNT + TDEC CNT)/16 = total of PCDTA DSPs
      (DTA CNT + ANN CNT)/32  = total of PCTOPLAY or PCM4TOPLAY DSPs
      (all totals should be rounded to the nearest integer)

      The sum of fields DTA CNT, ANN CNT, and TDEC CNT cannot
      exceed thirty-two (32).

DEPENDENCIES:

      RLpidb - 1 tuple whose key is same as PIDB attribute.
      RLrc_loceq - 1 tuple keyed by SM number and PICB (+1).
      RLrc_eqloc - 1 tuple whose keys are SM number, Unit
              number, Service Group number, and Unit type.
      RLcktdata - tuples defining the channels associated with the
              common control for the SAS.



              RLpicb (DCTU PICB)


DESCRIPTION:

      Assigns PICB to a Directly Connected Test Unit (DCTU).
      One PICB is assigned to each DCTU service group. There
      can only be one DCTU (or service group) in any Switch
      Module (SM). The DCTU service group is always zero (0).
      The DCTU unit number is always zero (0).  There must be
      a corresponding entry in the relations RLRC_EQLOC and

      RLRC_LOCEQ. The DCTU components must be defined in
      the relation RLCKTDATA in the SAME SM as RLPICB is
      defined. See the population rules for RLrc_eqloc,
      RLrc_loceq, and RLcktdata.
```

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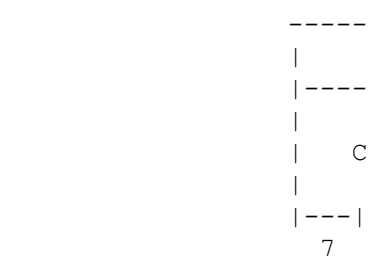
KEY FORMAT:




CI NO. - Control Interface 0 or 1
CI PICB NO. - PICB number relative to a CI (0 to 22)
(PICB 0 and 1 on CI 0 reserved for the LDSU)
(PICBs 23 reserved for maintenance)

QUANTITY OF TUPLES:

1 tuple per DCTU. There can be no more than one DCTU tuple per SM.

TUPLE SEMANTICS:

name (KEY) - PICB
pidb - 0 (zero)
pidb2 - 0x7F (Default value)
sg - 0 (service_group number 0)
esraddr - PICB shifted left 1 byte
unitnum - 0 (DCTU unit number 0)
esrsize - 8
dmsgpicb - d7 (default)
dsgcpicb - d7 (default)
unittype - SMDCTU
brd0type through brd31type - PCNOBRD

## RLpicb (Service types on an LDSU2 service group)

DESCRIPTION:

Assigns PICBs to an LDSU2. One PICB is assigned to each LDSU2 service group.

KEY FORMAT:

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```
   |---|---|---|---|---|---|---|---|
     7   6   5   4   3   2   1   0

   CI NO. - Control Interface 0 or 1
   CI PICB NO. - PICB number relative to a CI (0 or 1)


 QUANTITY OF TUPLES:

       1 tuple per LDSU2 service group

               PICB 0 to service group 0
               PICB 1 to service group 1

TUPLE SEMANTICS:

       name (KEY) - LDSU2 PICB
       pidb - 0
       pidb2 - 0x7F (Default value)
       sg      - service_group (0 through 1)
       esraddr - PICB (high order 8 bits) + 0
                 (low order 8 bits)
       unitnum - 0 (LDSU2 unit number)
       esrsize - 16
       dmsgpicb - LDSU2 PICB on opposite service group
       dsgcpicb - 0xd7
       unittype - SMDSU2
       brd0type through brd6type - PCTDEC, PCTGEN, PCNOBRD,
               PCTXCVR, or PCCTDEC.
               Unlike DSU1 and MSU, these attributes
               refer to the type of service provided by
               DSPs 0 - 6 found on an LDSU2 board.  (that
               is, brd0type refers to DSP0; brd1type refers
               to DSP1; . . .; brd6type refers to
               DSP6)  PCTDEC indicates that a DSP is
               providing Tone Decoding.  PCTGEN indicates
               that a DSP is providing Tone Generation.
               PCNOBRD indicates that a DSP is not assigned
               a service type. PCTXCVR indicates that a DSP
               is providing Tone Transceiver and VBS
               Generator functions. PCCTDEC indicates that
               a DSP is providing CAMA transfer call
               identity tone decoding.
       brd7type through brd31type - PCNOBRD

 NOTE:
       1 DSP provides a maximum of 31 Tone Generators (PCTGEN).
       1 DSP provides a maximum of 5 Tone Decoders (PCTDEC).
       1 DSP provides a maximum of 5 Tone Transceivers (PCTXCVR).
       1 DSP provides a maximum of 10 CAMA Transfer call
       identity tone Decoders (PCCTDEC)1
       These ratios, RLcktdata tuples, along with the
       RLcktdata population rules, should be used in
       determining the number of DSPs to assign for
```

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tone generation and tone decoding. DSPs assigned to tone decoding should be filled to it's maximum before allocating another DSP to do tone decoding. DSPs assigned to tone transceiver functions should be filled to it's maximum before allocating another DSP to provide tone transceiver circuits.
DSPs assigned to CAMA transfer call identity tone decoding should be filled to its maximum before allocating another DSP to do CAMA transfer call identity tone decoding.

Example:
```
        21 RLcktdata Tone Generator tuples &
        18 RLcktdata Tone Decoding tuples &
         3 RLcktdata Tone Transceiver tuples
           result in RLpicb being built as follows.

   brd0type brd1type brd2type brd3type brd4type
   brd5type brd6type

    PCTGEN   PCTDEC   PCTDEC   PCTDEC   PCTDEC
    PCTXCVR  PCNOBRD

          Recent Change can grow in 2 more tone
          decoding services before assigning brd6type
          to PCTDEC (OR Recent Change could grow in 2
          more Tone Transceiver services before
          assigning brd6type to PCTXCVR).  Degrowing
          the number of tone decoders under 16 would
          result in brd4type getting updated to PCNOBRD.
```
Example:
```
        31 RLcktdata Tone Generator tuples
        13 RLcktdata Tone Decoding tuples
         3 RLcktdata Tone Transceiver tuples &
         7 RLcktdata CAMA Transfer cal identity Tone
           decoding tuples would result in RLpicb
           being built as follows.

   brd0type brd1type brd2type brd3type brd4type
   brd5type brd6type

    PCTGEN   PCTDEC   PCTDEC   PCTDEC   PCTXCVR
    PCCTDEC  PCNOBRD

          Recent Change can grow in 2 more tone
          decoding services before assigning brd6type
          to PCTDEC (OR Recent Change could grow in 3
          more CAMA Transfer call identity
          tone decoding services before assigning
          brd6type to PCCTDEC).  Degrowing the number
          of tone decoders under 11 would result in
          brd4type getting updated to PCNOBRD.
```

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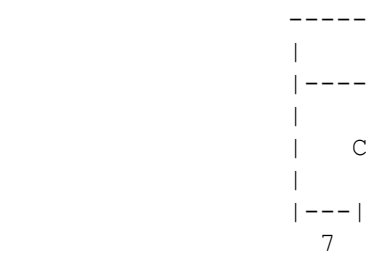
RLpicb (Service types on an LDSF3 )

DESCRIPTION:

Assigns PICBs to an LDSF3. One PICB is assigned to each LDSF3 circuit.

KEY FORMAT:




CI NO. - Control Interface 0 - 3
CI PICB NO. - PICB number relative to a CI (0 - 22)

QUANTITY OF TUPLES:

1 tuple per LDSF3 circuit

TUPLE SEMANTICS:

name (KEY) - LDSF3 PICB
pidb - 1st PIDB connected to DSC3 Board (PIDB0 of Board)
pidb2 - 0x7F (Default value)
sg - service group number is the physical position of board in the unit (0 through 17)
esraddr - PICB (high order 8 bits) + 0 (low order 8 bits)
unitnum - 0 - 5 (LDSF3 unit number)
esrsize - 16
dmsgpicb - 0xd7
dsgcpicb - 0xd7
unittype - SMLDSF3
brd0type through brd9type - PCTDEC, PCTGEN, PCNOBRD, PCTXCVR, PCVBSXCVR.
Unlike DSU1 and MSU, these attributes refer to the type of service provided by DSPs 0 - 9 found on an LDSF. (that is, brd0type refers to DSP0; brd1type refers to DSP1; . . .; brd6type refers to DSP6)
PCTDEC indicates that a DSP is providing Tone Decoding. PCTGEN indicates that a DSP is providing Tone Generation. PCNOBRD indicates that a DSP is not assigned a service type. PCTXCVR indicates that a DSP

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```
                is providing Tone Transceiver functions.
                PCVBSXCVR indicates that a DSP is providing
                voice Band services generator functions.

        brd10type through brd31type - PCNOBRD

NOTE:
        1 DSP provides a maximum of 64 Tone Generators (PCTGEN).
        1 DSP provides a maximum of 16 Tone Decoders (PCTDEC).
        1 DSP provides a maximum of 16 Tone Transceivers (PCTXCVR).
        1 PCVBSXCVR provides a maximum of 8 VBS generators.

        These ratios, RLcktdata tuples, along with the
        RLcktdata population rules, should be used in
        determining the number of DSPs to assign for
        tone generation and tone decoding.  DSPs assigned
        to tone decoding should be filled to it's maximum
        before allocating another DSP to do tone decoding.
        DSPs assigned to tone transceiver functions should be
        filled to it's maximum before allocating another DSP
        to provide tone transceiver circuits.

DEPENDENCIES:

       RLdsc3pidb - 1 tuple whose key equals Rlpicb.picb
       RLrc_loceq - 1 tuple keyed by SM number and PICB (+1).
       RLrc_eqloc - 1 tuple whose keys are SM number, Unit
                    number, Service Group number, and Unit type


                  RLpicb ( Service types on a GDSF )
```

## 5. PICB Population rules continued.

```
DESCRIPTION:

        Assigns PICBs to a GDSF. One PICB
        is assigned to each GDSF circuit.

KEY FORMAT:

     ---------------------------------
     |          GDSF PICB            |
     |-------------------------------|
     |           |                   |
     |   CI NO.  |   CI PICB NO.     |
     |           |                   |
     |---|---|---|---|---|---|---|---|
       7   6   5   4   3   2   1   0

     CI NO. - Control Interface
              0 or 1 for an SM
              0 to 3 for SM-2000
```

```
    CI PICB NO. - PICB number relative to a CI (0 - 22)
                  (PICB 23 reserved for maintenance)

 QUANTITY OF TUPLES:

       1 tuple per GDSF circuit


TUPLE SEMANTICS:

       name (KEY) - GDSF PICB
       pidb - 1st PIDB connected to DSC3 Board (PIDB0 of Board)
       pidb2 - 0x7F (Default value)
       esraddr - PICB (high order 8 bits) + 0 (low order 8 bits)
       unitnum - 0 - 31 for SM-2000 and 0 for an SM
       esrsize - 16
       dmsgpicb - 0xd7
       dsgcpicb - 0xd7
       unittype - SMGDSF
       sg -  service group number is the physical position of
             board in the unit
             (0 through 17 for SM-2000)
             (13 for an SM)
       brd0type through brd31type - PCNOBRD

DEPENDENCIES:

      RLdsc3pidb - 1 tuple whose key is same as PICB attribute.
      RLrc_loceq - 1 tuple keyed by SM number and PICB (+1).
      RLrc_eqloc - 1 tuple whose keys are SM number, Unit
                   number, Service Group number, and Unit type


              RLpicb (LU 1 COMDAC PICB)

DESCRIPTION:

      Assigns a COMDAC PICB to a LU1. There is one COMDAC PICB
      assigned to each COMDAC side.

      NOTE:  LU1 is not valid on SM-2000
KEY FORMAT:

   ---------------------------------
   |            COMDAC PICB        |
   |-------------------------------|
   |           |                   |
   |   CI NO.  |   CI PICB NO.     |
   |           |                   |
   |---|---|---|---|---|---|---|---|
     7   6   5   4   3   2   1   0

   CI NO. - Control Interface 0 or 1
   CI PICB NO. - PICB number relative to a CI (0 to 22)
```

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(PICB 0 and 1 on CI 0 reserved for the LDSU)
(PICBs 23 reserved for maintenance)

QUANTITY OF TUPLES:

1 Tuple per service group

Each service group requires duplicated PICB.
The PICBs must be assigned consecutively to the same CI as follows:
Even PICB to service group 0
Odd PICB to service group 1

TUPLE SEMANTICS:

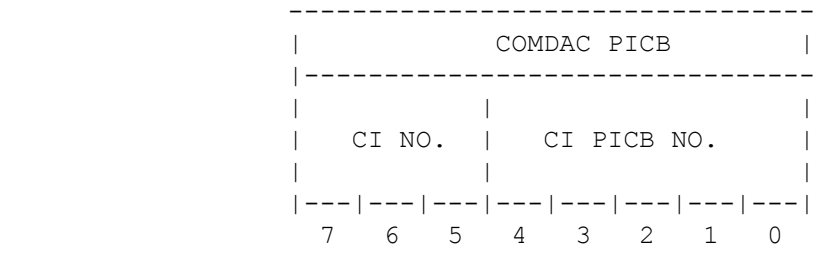
name (KEY) - CC PICB
pidb - System PIDB# assigned to this COMDAC
pidb2 - 0x7F (Default value)
sg - service_group (0 through 1)
esraddr - COMDAC PICB shifted left 1 byte ORed with 0xf8
unitnum - Line Unit Number (0-7)
esrsize - 8
dmsgpicb - 0xd7 (Default values, unused in LU )
dsgcpicb - 0xd7 ( Default value as there is no companion PICB)
unittype - SMLU
brd0type through brd31type - PCNOBRD

RLpicb (LU 2 COMDAC PICB)

DESCRIPTION:

Assigns a COMDAC PICB to a LU2. There is one COMDAC PICB assigned to each COMDAC side.

KEY FORMAT:




CI NO. - Control Interface 0 or 1
CI PICB NO. - PICB number relative to a CI (0 to 22)
(PICB 0 and 1 on CI 0 reserved for the LDSU)
(PICBs 23 reserved for maintenance)

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QUANTITY OF TUPLES:

1 Tuple per service group

Each service group requires duplicated PICB.
The PICBs must be assigned consecutively to the same CI as follows:
Even PICB to service group 0
Odd PICB to service group 1

TUPLE SEMANTICS:

name (KEY) - CC PICB
pidb - System PIDB# assigned to this COMDAC
pidb2 - 0x7F (Default value)
sg - service_group (0 through 1)
esraddr - COMDAC PICB shifted left 1 byte ORed with 0xf0
unitnum - LU2 unit number (SM: 0-7; SM-2000: 0-42)
esrsize - 8
dmsgpicb - 0xd7 (Default values, unused in LU )
dsgcpicb - 0xd7 ( Default value as there is no companion PICB)
unittype - SMC1LU
brd0type through brd31type - PCNOBRD

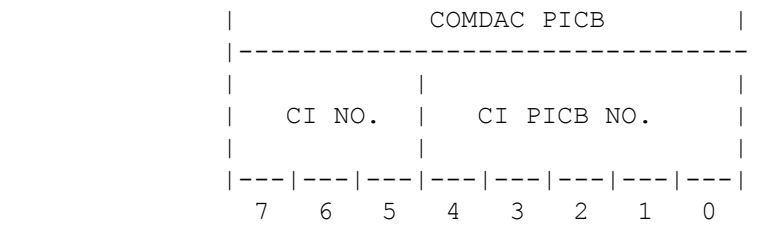
## RLpicb (LU 3 COMDAC PICB)

DESCRIPTION:

Assigns a COMDAC PICB to a LU3. There is one COMDAC PICB assigned to each COMDAC side.

NOTE: For SMs LU3 is 0-7.
For SM-2000 LU3 is 0-42.

KEY FORMAT:




CI NO. - Control Interface 0 or 1
CI PICB NO. - PICB number relative to a CI (0 to 22)
(PICB 0 and 1 on CI 0 reserved for the LDSU)
(PICBs 23 reserved for maintenance)

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QUANTITY OF TUPLES:

1 Tuple per service group

Each service group requires duplicated PICB.
The PICBs must be assigned consecutively to
the same CI NO. as follows:
Even PICB to service group 0
Odd PICB to service group 1

TUPLE SEMANTICS:

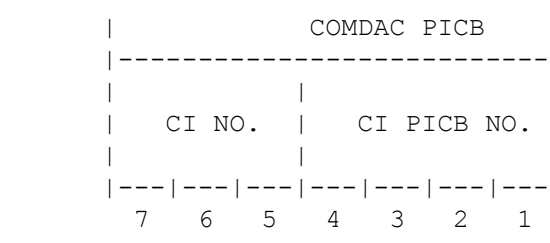
name (KEY) - CC PICB
pidb - System PIDB# assigned to this COMDAC
pidb2 - 0x7F (Default value)
sg - service_group (0 through 1)
esraddr - COMDAC PICB shifted left 1 byte ORed
with 0xf0
unitnum - Line Unit Number (0-7)
esrsize - 8
dmsgpicb - 0xd7 (Default values, unused in LU )
dsgcpicb - 0xd7 ( Default value as there is no
companion PICB)
unittype - SMLU3
brd0type through brd31type - PCNOBRD

RLpicb (LU 4 COMDAC PICB)

DESCRIPTION:

Assigns a COMDAC PICB to a LU4. There is one COMDAC PICB
assigned to each COMDAC side.

KEY FORMAT:




CI NO. - Control Interface 0 or 1 (SM) 0 - 3 (SM-2000)
CI PICB NO. - PICB number relative to a CI (0 to 22)
(PICB 0 and 1 on CI 0 reserved for the LDSU on an SM
only)
(PICBs 23 reserved for maintenance)

QUANTITY OF TUPLES:

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```
1 Tuple per service group

Each service group requires duplicated PICB.
The PICBs must be assigned consecutively to the same
CI NO. as follows:
Even PICB to service group 0
Odd PICB to service group 1

TUPLE SEMANTICS:

name (KEY) - CC PICB
pidb     - System PIDB# assigned to this COMDAC
pidb2    - 0x7F (Default value)
sg       - service_group (0 through 1)
esraddr  - COMDAC PICB shifted left 1 byte ORed
           with 0xf0
unitnum  - Line Unit Number ( 0 - 7 for an SM,
                              0 - 42 for SM-2000 )
esrsize  - 8
dmsgpicb - 0xd7 (Default values, unused in LU )
dsgcpicb - 0xd7 ( Default value as there is no
           companion PICB)
unittype - SMLU4
brd0type through brd31type - PCNOBRD

                RLpicb (ISTF common board)

  DESCRIPTION:

        Assigns a PICB to an Integrated Services
        Test Function (ISTF) unit. One PICB is
        assigned to each RLISTF board and there
        can be up to 4 boards per SM.  The PICB
        must be assigned in the same SM as the
        RLISTF tuple.


        The brdXtype attribute in the RLPICB relation
        is used to identify how the Digital Signal
        Processors (DSP) internal to the ISTF board
        are serving it.  These correspond to the
        service types described as logical test
        ports in RLFC_PORTTYP.

  KEY FORMAT:

     ---------------------------------
     |          ISTF PICB            |
     |-------------------------------|
     |           |                   |
     |   CI NO.  |   CI PICB NO.     |
     |           |                   |
     |---|---|---|---|---|---|---|---|
```

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```
      7   6   5   4   3   2   1   0

   CI NO. - Control Interface 0 or 1
   CI PICB NO. - PICB number relative to a CI (0 to 22)
                 (PICB 0 and 1 on CI 0 reserved for the LDSU)
                  (PICBs 23 reserved for maintenance)


 QUANTITY OF TUPLES:

       1 tuple per ISTF

TUPLE SEMANTICS:

       picb (KEY) - ISTF PICB
       pidb - ISTF PIDB
       pidb2 - 0x7F (Default value)
       sg      - service_group, valid combinations of service
                 group and unit number are:
                       sg    unitnum
                       --------------
                        4      0
                        8      2
                        13     1
                        17     3
       esraddr - PICB (high order 8 bits) + 0
                  (low order 8 bits)
       unitnum - 0-3 (ISTF unit number)
       esrsize - 16
       dmsgpicb - 0xd7
       dsgcpicb - 0xd7
       unittype - SMISTF
       brd0type through brd6type - PCISTF_LB and
               PCISTF_XMIT These attributes refer
               to the types of services provided
               by the DSP's (0-6) found on the
               common board.  A single DSP can
               provide 31 loopback services
               (PCISTF_LB).  However, it takes 2
               DSP's for each transmission
               service (PCISTF_XMIT) and these
               board numbers must be contiguous
               starting with an odd number
               (such as, brd1type and brd2type
               make up an xmit pair).  The RListf
               relation contains the number of
               services being provided by the ISTF.
               These values are in the attributes
               lb_cnt and xmit_cnt of that relation.
       brd7type through brd31type - PCNOBRD

 DEPENDENCIES:

       RLpidb     - 1 tuple whose key is same as PIDB
```

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```
                attribute.
     RLrc_loceq - 1 tuple keyed by SM number and PICB (+1).
     RLrc_eqloc - 1 tuple whose keys are SM number, Unit
                  number, Service Group number, and Unit
                  type.
     RListf     - 1 tuple defining the number of services
                  provided
     RLcktdata  - 1 tuple defining the common control for
                  the ISTF


             RLpicb (TU CDI PICB)

DESCRIPTION:

     Assigns a PICB to an Analog Trunk Unit (TU) Control
     and Data Interface (CDI) common board. One PICB is
     assigned to each TU service group.

KEY FORMAT:

   ---------------------------------
   |           TU CDI PICB         |
   |-------------------------------|
   |   CI NO.  |   CI PICB NO.     |
   |---|---|---|---|---|---|---|---|
     7   6   5   4   3   2   1   0

CI NO. - Control Interface 0 or 1 (SM), 0 - 3 (SM-2000)
CI PICB NO. - PICB number relative to a CI (0 to 22)
     (PICB 0 and 1 on CI 0 reserved for the LDSU on an SM only)
     (PICBs 23 reserved for maintenance)

QUANTITY OF TUPLES:

     1 Tuple per TU CDI board tuple present in CKTDATA.

TUPLE SEMANTICS:

     name (KEY) - TU CDI  CI/PICB
     pidb -       System DI/PIDB# assigned to the CDI
                  common board.
     pidb2 -      0x7F (Default value).
     sg      -    service_group (0 through 1)
     esraddr -    TU CDI  CI/PICB shifted left 1
                  byte + 0xC0.
     unitnum -    Analog Trunk Unit (TU) Number (0-7)
     esrsize -    8
     dmsgpicb -   0xd7 (Default value, unused in TUs)
     dsgcpicb -   0xd7 (Default value as there is no
                  companion PICB)
     unittype -   SMTU
     brd0type through brd31type - PCNOBRD
```

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DEPENDENCIES:

RLcktdata - 1 tuple defining the common board for this TU, The tuple can be accessed by keying into RLunit_ckt with the ckt_indx (sg + 1), unitnum (0-7), and unittype (SMTU). This will give you a circuit name to access RLcktdata. Also, tuples for all associated subtending circuit boards and channels, as specified in RLCKTDATA population rules.

RLpidb - 1 tuple for the corresponding DI/PIDB, whose key is the same as the pidb attribute.

RLrc_eqloc - 1 tuple whose keys are SM number, Unit number, Service Group number, and Unit type.

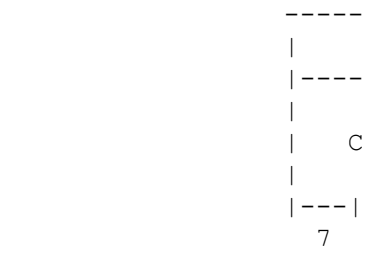
RLrc_loceq - 1 tuple keyed by SM number and CI/PICB +1.

RLpicb (ECSU)

DESCRIPTION:

Assigns the EC5 picbs in the ECSU.
Each EC5 is associated with a DFI (24 channels) facility.
There is one picb per EC5.

KEY FORMAT:




QUANTITY OF TUPLES

One tuple per EC5 assigned to a DFI Facility.

TUPLE SEMANTICS:

picb (KEY) - PICB number of the EC5.

pidb - System PIDB#/FIDB# assigned to DFI Facility associated with the EC5.

pidb2 - 0x7F (Default value).

esraddr - the base address for the error source register,
upper byte = picb attribute of this relation,

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```
                lower byte = 0x00.
     unitnum    - Unit number of the ECSU which contains
                  the EC5(0-5).
     esrsize    - 8
     dmsgpicb   - 0xd7 (Default value, unused)
     dsgcpicb   - Companion picb number of the
                  associated DFI.
     unittype   - SMECSU
     sg         - EC5 number (1-20).
     brd0type through
     brd31type       - PCNOBRD
             RLpicb (DFI PICB)

DESCRIPTION:

     Assigns a CI/PICB to a DFI board. The DFI terminates a
     single T1 facility, and has a corresponding PIDB (or FIDB).

KEY FORMAT:

   ---------------------------------
   |             DFI PICB          |
   |-------------------------------|
   |   CI NO.  |   CI PICB NO.     |
   |---|---|---|---|---|---|---|---|
     7   6   5   4   3   2   1   0

   CI NO. - Control Interface 0 or 1
   CI PICB NO. - PICB number relative to the CI
                 PICBs numbered (2 - 22) are available on CI 0
                 PICBs numbered (0 - 22) are available on CI 1

QUANTITY OF TUPLES:

     1 Tuple per DFI board tuple present in CKTDATA.

TUPLE SEMANTICS:

     name (KEY) - DFI CI/PICB
     pidb -       System PIDB#/FIDB# assigned to DFI
                  Facility
     pidb2 -      0x7F (Default value).
     sg      -    service_group (DFI number, 1-10)
     esraddr -    DFI CI/PICB shifted left 1 byte.
     unitnum -    Digital Line Trunk Unit (DLTU) Number (0-5)
     esrsize -    8
     dmsgpicb -   0xd7 (Default value, unused in DFIs)
     dsgcpicb -   picb number of associated EC5 (echo
                  canceling board). If there is no EC5
                  associated with this DFI then
                  set to default (0xd7).
     unittype -   SMDLTU
     brd0type through brd1type - PCEECU or PCNOBRD
     brd2type through brd31type - PCNOBRD
```

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DEPENDENCIES:

RLcktdata - 1 tuple defining the common board for this DFI, The tuple can be accessed by keying into RLunit_ckt with the ckt_indx (dfi + 1), unitnum (0-5), and unittype (SMTU). This will give you a circuit name to access RLcktdata. Also, tuples for all associated subtending channels, as specified in the RLCKTDATA population rules.

RLfidb_sgn - 1 tuple for the FIDB, whose key is same as the pidb attribute (associated with a PCT1FAC or PCCFAC only).

RLpidb - 1 tuple for the DI/PIDB, whose key is same as the pidb attribute (associated with a PCTFAC or PCHFAC only).

RLrc_eqloc - 1 tuple whose keys are SM number, Unit number, DFI Board Number ('Service Group'), and Unit type.

RLrc_loceq - 1 tuple keyed by SM number and CI/PICB +1.

## RLpicb (DFI-2 PICB)

DESCRIPTION:

Assigns a PICB to a DFI-2 board. The DFI-2 may terminate one or two T1 facilities (physically designated as FAC 0 and FAC 1), and thus may have one or two corresponding PIDBs (or FIDBs). Either or both of these PIDBs/FIDBs may be equipped. The PIDB/FIDB which physically connects to facility 0 must be populated in the '.pidb' attribute of the rlPICB tuple, and the PIDB/FIDB which physically connects to facility 1 must be populated

in the '.pidb2' attribute of the rlPICB tuple.

KEY FORMAT:

CI NO. - Control Interface 0 or 1

CI PICB NO. - PICB number relative to the CI
PICBs numbered (2 - 22) are available on CI 0
PICBs numbered (0 - 22) are available on CI 1

QUANTITY OF TUPLES:

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```
            1 Tuple per DFI-2 board tuple present in CKTDATA.

         TUPLE SEMANTICS:

            name (KEY) - DFI-2 PICB
            pidb -       System PIDB#/FIDB# assigned to DFI-2 facility 0
            pidb2 -      System PIDB#/FIDB# assigned to DFI-2 facility 1
                         0x7F (Default value).
            sg      -    service_group (DFI number, 1-10)
            esraddr -    DFI-2 CI/PICB shifted left 1 byte.
            unitnum -    Digital Line Trunk Unit 2 (DLTU2) Number (0-5)
            esrsize -    16
            dmsgpicb -   picb number of associated EC5 (echo
                         canceling board) connected to DFI2
                         facility 1 (FAC 1). If there is no EC5
                         associated with FAC 1 then set to
                         default (0xd7).
            dsgcpicb -   picb number of associated EC5 (echo
                         canceling board) connected to DFI2
                         facility 0 (FAC 0).  If there is no EC5
                         associated with FAC 0 then set to
                         default (0xd7).
            unittype -   SMDLTU2
            brd0type through brd1type - PCEECU or PCNOBRD
            brd2type through brd31type - PCNOBRD

          DEPENDENCIES:

            RLcktdata -  1 tuple defining the common board for
                         this DFI-2, the tuple can be accessed
                         by keying into RLunit_ckt with the
                         ckt_indx (dfi + 1), unitnum (0-5), and
                         unittype (SMTU). This will give you a
                         circuit name to access RLcktdata. Also,
                         tuples for all associated subtending
                         channels, as specified in the RLCKTDATA
                         population rules.
            RLfidb_sgn - 1 tuple for each equipped FIDB, whose key
                         is the same as each non-0x7F pidb/pidb2
                         attribute associated with a PCT1FAC or PCCFAC.
            RLpidb -     1 tuple for each equipped DI/PIDB, whose
                         key is same as each non-0x7F pidb/pidb2
                         attribute associated with a PCTFAC or PCHFAC.
            RLrc_eqloc - 1 tuple whose keys are SM number, Unit number,
                         DFI-2 Board Number ('Service Group'), and
                         Unit type.
            RLrc_loceq - 1 tuple keyed by SM number and CI/PICB +1.


**********************************************************************

                        RLpicb (IDCU PICB)

        DESCRIPTION:
```

Assigns a PICB to an IDCU service group. IDCU service groups are always in pairs (both service groups must be present). An IDCU may have one or more PIDB/DPIDBs; however, the first PIDB position on the IDCU is always a PIDB (not a DPIDB) as is populated in the '.pidb' attribute of rlPICB.

Note that the PICB for service group 0 of the IDCU must be even and the PICB for service group 1 must be equal to (service group 0 picb + 1).

KEY FORMAT:

CI NO. - Control Interface 0 or 1
CI PICB NO. - PICB number relative to the CI
PICBs numbered (2 - 22) are available on CI 0
PICBs numbered (0 - 22) are available on CI 1

QUANTITY OF TUPLES:

1 Tuple per IDCU service group (2 per IDCU)

TUPLE SEMANTICS:

name (KEY) - IDCU PICB
pidb - PIDB number relative to the SM of the PIDB assigned to position 0 on the IDCU 0 on the IDCU
pidb2 - 0x7F (Default value).
sg - service_group (0 through 1)
esraddr - IDCU CI/PICB shifted left 1 byte.
unitnum - Integrated Digital Carrier Unit (IDCU) Number (0-7 for an SM and 0-42 for an SM-2000)
esrsize - 16
dmsgpicb - 0xd7 (Default value, unused in IDCUs)
dsgcpicb - 0xd7 (Ditto)
unittype - SMIDCU
brd0type through brd31type - PCNOBRD

DEPENDENCIES:

RLcktdata - 1 tuple defining the common board for this IDCU service group which can be uniquely identified with a circuit index of (RLpicb.sg + 1), unit number of RLpicb.unitnum and a unit type of SMIDCU.

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```
                        0-2 tuples associated with each equipped IDCU
                        Facility.
                        0-1 tuples associated with an ELI defined
                        under the name space for this IDCU.
                        1-23 tuples associated with the PIDB/DPIDBs
                        assigned to this IDCU service group.
              RLislupidb - 1 tuple keyed by the CI/PICB number.
              RLpidb -    1 tuple for each equipped DI/PIDB.
              RLrc_eqloc - 1 tuple whose keys are SM number, Unit number,
                           IDCU Number ('Service Group'), and Unit type.
              RLrc_loceq - 1 tuple keyed by SM number and CI/PICB +1.

       "
```

**Attribute:**
picb
**Fullname:**
Peripheral Interface Control Bus
**Attribute Description:**
Peripheral interface control bus. List all picb numbers that appear in CKTDATA relation for all units, include both service group zero and one in each unit.

**Attribute:**
pidb
**Fullname:**
Peripheral Interface Data Bus
**Attribute Description:**
Number of the Peripheral Interface Data Bus (PIDB) cable connecting to this service group. DFIs in an RSM are connected to the FIU via FIDBs, so in this case, the pidb field refers to the FIDB number. DFI-2s may have up to two PIDBs/FIDBs, so in this case, the pidb field refers to the first relative PIDB/FIDB on a board (for facility 0).

**Attribute:**
pidb2
**Fullname:**
Peripheral Interface Data Bus 2.
**Attribute Description:**
Number of the second PIDB cable to a DFI-2. For DFI-2s, the pidb2 field refers to the second relative PIDB/FIDB on the board (for facility 1). This field should default to 0x7f for non-DFI-2s, or if a DFI-2 has relative PIDB/FIDB 1 unequipped.

**Attribute:**
esraddr

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**Fullname:**
Base address needed for esr (error source register)
**Attribute Description:**
Base address needed for error source register.
This is a two byte hex field.
The high order byte is equal to the CI/PICB number.
The low order byte is one of the following values
depending on the value of the attribute unittype:
F8, F0, C0, 00 ( most typical ).
See the previous general section or the following
check section for the Specific values for each
unittype enumeration.

**Attribute:**
unitnum
**Fullname:**
Service group number relative to IM (SM)
**Attribute Description:**
Unit number relative to the SM.

**Attribute:**
esrsize
**Fullname:**
Size of error source register on service group
**Attribute Description:**
Size of error source register on service group.
Set units to the following decimal values depending
on the value of attribute unittype: 8, 16.
See the previous general application section or the
following checks section for the specific values for
each unittype enumeration.

**Attribute:**
dmsgpicb
**Fullname:**
Mate Service Group PICB
**Attribute Description:**
Mate Service Group PICB

**Attribute:**
dsgcpicb
**Fullname:**
service group companion PICB
**Attribute Description:**
service group companion PICB.

**Attribute:**
sg

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**Fullname:**
service group
**Attribute Description:**
Service group number. This attribute is cross checked against service_group in RLrc_loceq.

**Attribute:**
unittype
**Fullname:**
Unit type of service group
**Attribute Description:**
Unit type of service group. Taken from CKTDATA relation attribute 'utype'.

**Attribute:**
brd[*]type
**Fullname:**
Board type slot 0 (DSU and MSU)
**Attribute Description:**
This is the valid non-defaulted board type enum An enumeration other than PCNOBRD. Local DSU mark UTD= Universal tone detector and UTG=Universal tone generator Use enumeration PCUTR for UTD and PCUTG for UTG. Break the 'ckt_indx' attribute of CKTDATA relation's first circuit of two circuits down into binary then starting from the right divide first five, which represents board location. These three tell which board type 0 through 15 to place enumeration in. For global DSU break the 'name' attribute in CKTDATA down the same way for TTF conference, responder, tone generator, interface and processor boards. For the MSU break the 'ckt_indx' attribute in CKTDATA down into binary and use bit positions 0 through 3 as the board positions for the metallic access, scanner, distributor, GDX compensator, SLIM2, and ALIT boards. The previous steps must be done for both service groups in each DSU and MSU unit.

For the Local DSU with a Revertive Pulsing Transceiver, the attribute brdNtype (where N=pack position in the service group: N=0-7) must be populated with the value PCRVPTBRD.

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# PIDB

## 1. Description

Control bus associated with a data bus.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 144 |
| expected number of tuples | 20 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 100 |
| trigger function | PCpidbtrg |
| insert trigger | DBYES |
| update trigger | DBNO |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
PIDB        relid = 47    DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     pidb        DMPIDB       (ushort)     <--- key
     picb        DMPICB       (ushort)
     dmsgpidb    DMPIDB       (ushort)
     dsgcpidb    DMPIDB       (ushort)
     rpidb1      DMPIDB       (ushort)
     rpidb2      DMPIDB       (ushort)
         User, Compacted and Stored Tuple Layout   PIDB
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |               pidb            |               picb            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             dmsgpidb          |             dsgcpidb          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |              rpidb1           |              rpidb2           |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLpidb

**Relation Description**
Control bus associated with a data bus.

Control bus associated with a data bus. This relation is based on the pidb attribute in RLcktdata.

```
**********************************************************************
POPULATION RULES FOR RLPIDB:
KEY FORMAT:
                ( SM )
    --------------------------------
```

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```
    |             PIDB              |
    |-------------------------------
    |           |   |               |
    |  0   0  0 |DI |  DI PIDB NO.  |
    |           |NO.|               |
    |---|---|---|---|---|---|---|---|
      7   6   5   4   3   2   1   0
    DI NO. - Data Interface number 0 or 1
    DI PIDB NO. - PIDB number relative to a DI (0 to 15)
                (SM-2000)
    -------------------------------
    |             PIDB              |
    |-------------------------------
    |               |               |
    |       DX NO.  |  DX PIDB NO.  |
    |               |               |
    |---|---|---|---|---|---|---|---|
      7   6   5   4  3   2    1   0
    DX NO. - DX number (0 to 5)
    DX PIDB NO. - PIDB number relative to a DX (0 to 23)
**********************************************************************
RLpidb    (SLC 96 PIDB A)
DESCRIPTION:
        PIDB A is the first PIDB on each DCLU service group. PIDB A
        is always required.
QUANTITY OF TUPLES:
        One tuple per DCLU service group
        any available PIDB is acceptable (same DI in both SGs).
TUPLE SEMANTICS:
        name (KEY) - PIDB A
        picb - CC PICB for this service group
        dmsgpidb - PIDB A on opposite service group
        dsgcpidb - PIDB B on this service group
                  (0x7f if UNASSIGNED: 9:1 DCLU)
        rpidb1 - 0x7F
        rpidb2 - 0x7F
**********************************************************************
                RLpidb (SLC 96 PIDB B)
DESCRIPTION:
        PIDB B is the second PIDB on each DCLU service group.
        This PIDB is not assigned for 9:1 concentration DCLUs.
QUANTITY OF TUPLES:
        One tuple per DCLU service group
        any available PIDB is acceptable (same DI for both SGs).
TUPLE SEMANTICS:
        name (KEY) - PIDB B
        picb - CC PICB for this service group
        dmsgpidb - PIDB B on opposite service group
        dsgcpidb - PIDB A on this service group
        rpidb1 - 0x7F
        rpidb2 - 0x7F
**********************************************************************
RLpidb    (PSIU TSI PIDB)
DESCRIPTION:
```

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This relation defines the TSI PIDBs that terminate on the PSU Data Fanout boards. There can be up to 48 PIDBs (24 per side) terminating in a PSU. A minimum of 2 PIDBs (1 per side) are always required if a PSU is equipped. Corresponding PIDBs on each PSU side must be connected to the same DI/DX.

QUANTITY OF TUPLES:

One tuple per assigned PIDB. Any available PIDB is acceptable.

TUPLE SEMANTICS:

pidb (KEY) - PIDB number.
picb - PSUCOM PICB for this service group.
dmsgpidb - PIDB # of same DF connection on opposite psu shelf side.
dsgcpidb - 0x7f (Not used for PSU).
rpidb1 - Relative PIDB# (0-47). See Table for assignment.
rpidb2 - 0x7f (Not used for PSU)

RPIDB1 TABLE: (Used to determine the relative PSIU PIDB#)

This table is summarized by:

rpidb1 = (8 * Shelf) + (2 * connection) + (PSU Side)

| rpidb1 | PSU Side | Shelf | Connection | DF# |
|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0 | 0 | 1 |
| 2 | 0 | 0 | 1 | 0 |
| 3 | 1 | 0 | 1 | 1 |
| 4 | 0 | 0 | 2 | 0 |
| 5 | 1 | 0 | 2 | 1 |
| 6 | 0 | 0 | 3 | 0 |
| 7 | 1 | 0 | 3 | 1 |
| 8 | 0 | 1 | 0 | 0 |
| 9 | 1 | 1 | 0 | 1 |
| 10 | 0 | 1 | 1 | 0 |
| 11 | 1 | 1 | 1 | 1 |
| 12 | 0 | 1 | 2 | 0 |
| 13 | 1 | 1 | 2 | 1 |
| 14 | 0 | 1 | 3 | 0 |
| 15 | 1 | 1 | 3 | 1 |
| 16 | 0 | 2 | 0 | 0 |
| 17 | 1 | 2 | 0 | 1 |
| 18 | 0 | 2 | 1 | 0 |
| 19 | 1 | 2 | 1 | 1 |
| 20 | 0 | 2 | 2 | 0 |
| 21 | 1 | 2 | 2 | 1 |
| 22 | 0 | 2 | 3 | 0 |
| 23 | 1 | 2 | 3 | 1 |
| 24 | 0 | 3 | 0 | 0 |
| 25 | 1 | 3 | 0 | 1 |
| 26 | 0 | 3 | 1 | 0 |
| 27 | 1 | 3 | 1 | 1 |
| 28 | 0 | 3 | 2 | 0 |
| 29 | 1 | 3 | 2 | 1 |
| 30 | 0 | 3 | 3 | 0 |
| 31 | 1 | 3 | 3 | 1 |
| 32 | 0 | 4 | 0 | 0 |
| 33 | 1 | 4 | 0 | 1 |

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| | | | | |
|---|---|---|---|---|
| 34 | 0 | 4 | 1 | 0 |
| 35 | 1 | 4 | 1 | 1 |
| 36 | 0 | 4 | 2 | 0 |
| 37 | 1 | 4 | 2 | 1 |
| 38 | 0 | 4 | 3 | 0 |
| 39 | 1 | 4 | 3 | 1 |
| 40 | 0 | 5 | 0 | 0 |
| 41 | 1 | 5 | 0 | 1 |
| 42 | 0 | 5 | 1 | 0 |
| 43 | 1 | 5 | 1 | 1 |
| 44 | 0 | 5 | 2 | 0 |
| 45 | 1 | 5 | 2 | 1 |
| 46 | 0 | 5 | 3 | 0 |
| 47 | 1 | 5 | 3 | 1 |

**********
**********

RLpidb (ISLU(2) TSI PIDBs)

DESCRIPTION:

This relation defines the TSI PIDBs that can terminate on the ISLU(2) Common Data boards. There can be up to 24 PIDBs (12 per ISLU(2) side). A minimum of 2 PIDBs (1 per side) are always required. Only PIDBs of circuit type PCPIDBISLU which are listed in RLcktdata should be included in this relation.

QUANTITY OF TUPLES:

One tuple per assigned PIDB (maximum of 12 per side) any available PIDB is acceptable (same DI in both sides) (same DX on both sides for SM-2000).

TUPLE SEMANTICS:

name (KEY) - System PIDB circuit name
picb - CC PICB for this service group
dmsgpidb - PIDB# on the same CD connection on mate controller
dsgcpidb - 0x7f (Not used for ISLU(2))
rpidb1 - Relative PIDB# (0-23) See Table for assignment
rpidb2 - 0x7f (Not used for ISLU(2))

RPIDB1 TABLE: (Used to determine the relative ISLU(2) PIDB#)

This table is summarized by

rpidb1 = (12 CD Brd# ) + (2 *Connection) + (ISLU(2) Side)

| rpidb1 | ISLU(2) Side | CD Brd # | Connection |
|---|---|---|---|
| 0 | 0 | 0 | 0 |
| 1 | 1 | 0 | 0 |
| 2 | 0 | 0 | 1 |
| 3 | 1 | 0 | 1 |
| 4 | 0 | 0 | 2 |
| 5 | 1 | 0 | 2 |
| 6 | 0 | 0 | 3 |
| 7 | 1 | 0 | 3 |
| 8 | 0 | 0 | 4 |
| 9 | 1 | 0 | 4 |
| 10 | 0 | 0 | 5 |
| 11 | 1 | 0 | 5 |
| 12 | 0 | 1 | 0 |
| 13 | 1 | 1 | 0 |

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| | | | |
|---|---|---|---|
| 14 | 0 | 1 | 1 |
| 15 | 1 | 1 | 1 |
| 16 | 0 | 1 | 2 |
| 17 | 1 | 1 | 2 |
| 18 | 0 | 1 | 3 |
| 19 | 1 | 1 | 3 |
| 20 | 0 | 1 | 4 |
| 21 | 1 | 1 | 4 |
| 22 | 0 | 1 | 5 |
| 23 | 1 | 1 | 5 |

**********

RLpidb (AIU TSI PIDBs)

DESCRIPTION:

This relation defines the TSI PIDBs that can terminate on the AIU COMDAC. There can be up to 12 PIDBs (6 per COMDAC). A minimum of 2 PIDBs are always required. Only PIDBs of circuit type PCAI_PIDB which are listed in RLcktdata should be included in this relation.

QUANTITY OF TUPLES:

One tuple per assigned PIDB (maximum of 6 per side) any available PIDB is acceptable (same DI in both sides) (same DX on both sides for SM-2000).

TUPLE SEMANTICS:

name (KEY) - System PIDB circuit name
picb - CC PICB for this service group
dmsgpidb - PIDB# on the same COMDAC connection on mate controller
dsgcpidb - 0x7f (Not used for AIU))
rpidb1 - Relative PIDB# (0-11) See Table for assignment
rpidb2 - 0x7f (Not used for AIU)

RPIDB1 TABLE: (Used to determine the relative AIU PIDB#)

This table is summarized by

rpidb1 = (COMDAC # ) + (2 * Connection)

| rpidb1 | COMDAC # | Connection |
|---|---|---|
| 0 | 0 | 0 |
| 1 | 1 | 0 |
| 2 | 0 | 1 |
| 3 | 1 | 1 |
| 4 | 0 | 2 |
| 5 | 1 | 2 |
| 6 | 0 | 3 |
| 7 | 1 | 3 |
| 8 | 0 | 4 |
| 9 | 1 | 4 |
| 10 | 0 | 5 |
| 11 | 1 | 5 |

**********

RLpidb (LU 1 TSI PIDBs)

DESCRIPTION:

This relation defines the TSI PIDBs that can terminate on the LU 1 Common Data boards. There can be up to 2 PIDBs (1 per LU 1 service group).

QUANTITY OF TUPLES:

One tuple per assigned PIDB.

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```
        Each service group requires duplicated PIDB.
        Any available PIDB is acceptable, the PIDBs must be
        assigned consecutively to the same DI NO.
TUPLE SEMANTICS:
        name (KEY) - System PIDB circuit name
        picb - COMDAC PICB for this service group
        dmsgpidb - 0x7f (Not used for LU 1)
        dsgcpidb - 0x7f (Not used for LU 1)
        rpidb1 - 0x7f (Not used for LU 1)
        rpidb2 - 0x7f (Not used for LU 1)
**********************************************************************
RLpidb    (LU 2 TSI PIDBs)
DESCRIPTION:
    This relation defines the TSI PIDBs that can terminate on the LU 2
    Common Data boards.  There can be up to 2 PIDBs (1 per LU 2
    service group).
QUANTITY OF TUPLES:
    One tuple per assigned PIDB.
    Each service group requires duplicated PIDB.
    Any available PIDB is acceptable, the PIDBs must be
    assigned consecutively to the same DI NO.
TUPLE SEMANTICS:
    name (KEY) - System PIDB circuit name
    picb - COMDAC PICB for this service group
    dmsgpidb - 0x7f (Not used for LU 2)
    dsgcpidb - 0x7f (Not used for LU 2)
    rpidb1 - 0x7f (Not used for LU 2)
    rpidb2 - 0x7f (Not used for LU 2)
**********************************************************************
RLpidb    (LU 3 TSI PIDBs)
DESCRIPTION:
    This relation defines the TSI PIDBs that can terminate on the LU 3
    Common Data boards.  There can be up to 2 PIDBs (1 per LU 3
    service group).
QUANTITY OF TUPLES:
    One tuple per assigned PIDB.
    Each service group requires duplicated PIDB.
    Any available PIDB is acceptable, the PIDBs must be
    assigned consecutively to the same DI NO.
    (for SM-2000, the PIDBs must be assigned consecutively
    on the same DX NO.)
TUPLE SEMANTICS:
        name (KEY) - System PIDB circuit name
        picb - COMDAC PICB for this service group
        dmsgpidb - 0x7f (Not used for LU 3)
        dsgcpidb - 0x7f (Not used for LU 3)
        rpidb1 - 0x7f (Not used for LU 3)
        rpidb2 - 0x7f (Not used for LU 3)
**********************************************************************
RLpidb    (RISLU TSI PIDBs)
DESCRIPTION:
        This relation defines the TSI PIDBs that can terminate on the
        RISLU DFI-H1 or DFI-H2 boards. There can be up to 12 PIDBs
        for each
```

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```
RISLU. A minimum of 2 PIDBs are always required.
        One PIDB is assigned for each DFI-H1 or DFI-H2 board in a
        RISLU. Each TSI PIDB is remoted over digital carrier facilities
        to a DFI-R1 or DFI-R2 board. Each remote DFI is connected to
        the CD service groups by two PIDBs, one to each service group.
        One of these PIDBs is used as active, the other as standby.
        This configuration is referred to as remote PIDB fan out, and
        is used on all RISLUs.
QUANTITY OF TUPLES:
        One tuple per assigned PIDB (maximum of 12 per RISLU)
        any available PIDB is acceptable.
TUPLE SEMANTICS:
        name (KEY) - System PIDB circuit name
        picb - PICB that controls the RISLU DFI that is remoting this PIDB
        dmsgpidb - 0x7f (Not used for RISLU)
        dsgcpidb - 0x7f (Not used for RISLU)
        rpidb1 - Relative PIDB# of the pidb which is fanned out
                to CD service group 0 (see the following NOTE)
        rpidb2 - Relative PIDB# of the pidb which is fanned out
                to CD service group 1 (see the following NOTE).
 NOTE:
        Each RISLU TSI PIDB has two tuples in RLCKTDATA of type
        PCPIDBRISLU associated with it.  These tuples represent
        the two PIDBs that connect the RISLU remote DFI with the
        RISLU CD service groups.  The lower byte of the circuit
        index for these two tuples is identical ( See RLCKTDATA
        population rules).
        -rpidb1 should be populated with the lower byte of the
         associated PCPIDBRISLU circuit index multiplied by two.
        -rpidb2 should be populated with rpidb1 + 1
        EXAMPLE:
                Circuit names of associated PCPIDBRISLU tuples:
                        0x0105
                        0x0205
                rpidb1:         10 (decimal)
                rpidb2:         11 (decimal)
**********************************************************************
**********************************************************************
                RLpidb (RAF common board)
DESCRIPTION:
        Assigns a PIDB to an RAF. One PIDB is assigned to each RAF.
QUANTITY OF TUPLES:
        One tuple per RAF.
TUPLE SEMANTICS:
        name (KEY) - PIDB (assigned to RAF)
        picb - PICB for this RAF
        dmsgpidb - 0x7f
        dsgcpidb - 0x7f
        rpidb1 - 0x7f (Not used for RAF)
        rpidb2 - 0x7f (Not used for RAF)
 DEPENDENCIES:
        RLpicb - 1 tuple whose key is same as PICB attribute.
        RLrc_loceq - 1 tuple keyed by SM number and PICB (+1).
        RLrc_eqloc - 1 tuple whose keys are SM number, Unit
```

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```
                number, Service Group number, and Unit type.
        RLcktdata - 1 tuple defining the common control for the RAF.
*********************************************************************
                RLpidb (SAS common board)
DESCRIPTION:
        Assigns a PIDB to a SAS. One PIDB is assigned to each
        SAS unit.
QUANTITY OF TUPLES:
        One tuple per SAS.
TUPLE SEMANTICS:
        name (KEY) - PIDB (assigned to SAS)
        picb - PICB for this SAS
        dmsgpidb - 0x7f
        dsgcpidb - 0x7f
        rpidb1 - 0x7f (Not used for SAS)
        rpidb2 - 0x7f (Not used for SAS)
 DEPENDENCIES:
        RLpicb - 1 tuple whose key is same as PICB attribute.
        RLrc_loceq - 1 tuple keyed by SM number and PICB (+1).
        RLrc_eqloc - 1 tuple whose keys are SM number, Unit
                number, Service Group number, and Unit type.
        RLcktdata - 1 tuple defining the common control for the SAS.
*********************************************************************
                RLpidb (ISTF common board)
DESCRIPTION:
        Assigns a PIDB to an Integrated Services Test Function (ISTF).
        One PIDB is assigned to each ISTF common board.
        The PIDB provides the digital data being tested corresponding
        to the PICB assigned to the ISTF.  The PICB, PIDB, and ISTF must
        all be defined on the same SM.
QUANTITY OF TUPLES:
        One tuple per ISTF.
TUPLE SEMANTICS:
        name (KEY) - PIDB (assigned to ISTF)
        picb - PICB for this ISTF
        dmsgpidb - 0x7f (default)
        dsgcpidb - 0x7f (default)
        rpidb1 - 0x7f (not used for ISTF)
        rpidb2 - 0x7f (not used for ISTF)
 DEPENDENCIES:
        RLpicb - 1 tuple whose key is same as PICB attribute.
        RLrc_loceq - 1 tuple keyed by SM number and PICB (+1).
        RLrc_eqloc - 1 tuple whose keys are SM number, Unit
                number, Service Group number, and Unit type.
        RLcktdata - 1 tuple defining the common control for the ISTF.
*********************************************************************
                  POPULATION RULES FOR RLPIDB:
 RLpidb (Analog Trunk Unit common board)
 DESCRIPTION:
        Defines the PIDB tuple required to represent the Peripheral
        Interface Data Bus (PIDB) associated with Analog Trunk Unit (TU)
        Control and Data Interface (CDI) common board. For each equipped
        ('eqstat' attribute is not SMUNEQ) tuple in RLCKTDATA with 'type'
        attribute of PCCDI, equip one PIDB tuple keyed by its PIDB number,
```

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```
        which is found in the CKTDATA tuple's 'pidb' attribute.
 QUANTITY OF TUPLES:
        One PIDB tuple per equipped PCCDI tuple in CKTDATA.
        An equipped tuple is one with an 'eqstat' attribute equal to
        SMOPER or SMGROW (that is, not equal to SMUNEQ).
 TUPLE SEMANTICS:
        name (KEY) - DI/PIDB # from PCCDI cktdata.pidb attribute
        picb           - CI/PICB + 1 for this PCCDI circuit,
                       obtained from lower byte of CKTDATA name - 1.
        dmsgpidb   - 0x7F
        dsgcpidb   - 0x7F
        rpidb1     - 0x7F
        rpidb2     - 0x7F
**********************************************************************
                  POPULATION RULES FOR RLPIDB:
RLpidb (PCTFAC or PCHFAC)
DESCRIPTION:
        Defines the PIDB tuple required to represent the Peripheral
        Interface Data Bus (PIDB) associated with PCTFAC and PCHFAC
        facility circuits. For each populated tuple in RLCKTDATA
        with 'type' attribute of PCTFAC or PCHFAC, populate
        one PIDB tuple keyed by its PIDB number, which is found in the
        CKTDATA tuple's 'pidb' attribute.
        DFI-1 circuit boards only terminate a single facility, while the newer
        DFI-2 circuit boards terminate up to two. Regardless of DFI type,
        facilities are numbered according to their relative position on the
        board. Facilities terminating on a DFI-1 can only be relative facility
        0, while facilities terminating on a DFI-2 may be either relative
        facility 0 or 1, depending on the physical connection on the T1 side
        if the DFI-2. Relative facility is determined directly from the lower
        bit of the CKTDATA 'ckt_indx' attribute.
QUANTITY OF TUPLES:
        One PIDB tuple per populated PCTFAC or PCHFAC tuple in CKTDATA.
TUPLE SEMANTICS:
        name (KEY) - DI/PIDB # from PCTFAC or PCHFAC cktdata.pidb attribute
                       or        DX/PIDB        # from cktdata.pidb, for SM-2000.
        picb     - CI/PICB for this PCTFAC or PCHFAC circuit,
                       obtained from upper byte of CKTDATA name - 1.
        dmsgpidb - 0x7F
        dsgcpidb - 0x7F
        rpidb1   - RLcktdata.R checks the 'name' to rpidb1
                   if ( this PCTFAC/PCHFAC is relative facility 0 )
                         populate this field the same as the 'name' attribute
                   else ( this PCTFAC/PCHFAC is relative facility 1 )
                         therefore, a tuple must exist in CKTDATA representing
                         relative facility 0 on the same CI/PICB + 1.
                         populate this field with the pidb attribute of that
                         CKTDATA tuple
        rpidb2   - RLcktdata.R checks the 'name' to rpidb2
                   if ( this PCTFAC/PCHFAC is relative facility 1 )
                         populate this field the same as the 'name' attribute
                   else ( this PCTFAC/PCHFAC is relative facility 0 )
                         see if there is a tuple in CKTDATA representing
                         relative facility 1 on the same CI/PICB + 1.
```

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```
                        if ( relative facility tuple 1 exists )
                             populate this field with the pidb attribute of
                             that CKTDATA tuple
                          else
                             populate this field with 0x7f (unequipped PIDB)
*************************************************************************
RLpidb    (IDCU TSI PIDBs)
DESCRIPTION:
        This relation defines the TSI PIDBs that can terminate on the
        IDCU.  There can be up to 16 PIDBs per IDCU service group.
        There are restrictions between the assignment of PIDBs and
        DPIDBs on an IDCU.  If certain DPIDBs are assigned to an
        IDCU, then that service group could be restricted to less
        then 16 PIDBs.  See the IDCU population rules in RLislupidb.
        Only PIDBs of circuit type PCPIDBIDCU and pidbtype of
        PCDUALPIDB which are listed in  RLcktdata should be included
        in this relation.
QUANTITY OF TUPLES:
        One tuple per assigned PIDB (maximum of 16 per side)
        only dual pidbs are allowed which requires PIDB pairs
        be assigned to the IDCU.
TUPLE SEMANTICS:
        name (KEY) - System PIDB circuit name
        picb - CC PICB for this service group
        dmsgpidb - PIDB# on the same CD connection on mate controller
        dsgcpidb - 0x7f (Not used for IDCU)
        rpidb1 - Relative PIDB# (0-31)
        rpidb2 - 0x7f (Not used for IDCU)
        rpidb1 = (pidb_number_relative_to_IDCU_SG << 1) + IDCU_side
                pidb_number_relative_to_IDCU_SG = 0 to 15 (PIDBs only)
                IDCU_side = 0 or 1 (service group number)
*********************************************************************
              RLpidb (LDSF common board)
DESCRIPTION:
      Assign a PIDB to a Local Digital Services Function (LDSF).
      Four PIDBs are assigned to each LDSF common board.  All
      four PIDBs must be connected to the same DX.
QUANTITY OF TUPLES:
      4 tuples per LDSF
TUPLE SEMANTICS:
      pidb (KEY) - PIDB (assigned to LDSF)
      picb - PICB for this LDSF
      dmsgpidb - 0x7f (default)
      dsgcpidb - 0x7f (default)
      rpidb1 - 0x7f (not used for
 LDSF)
      rpidb2 - 0x7f (not used for LDSF)
 DEPENDENCIES:
      RLdsc3pidb - 1 tuple whose key is picb.
      RLrc_loceq - 1 tuple keyed by SM number and PICB (+1).
      RLrc_eqloc - 1 tuple whose keys are SM number, Unit
              number, Service Group number, and Unit type.
      RLcktdata - 1 tuple defining the common control for the LDSF.
*********************************************************************
```

```
              RLpidb (GDSF common board)
DESCRIPTION:
      Four PIDBs are assigned to each GDSF common board for SM-2000 and
      one PIDB or two PIDB for SM.
      All PIDBs must be connected to the same DX/DI.
QUANTITY OF TUPLES:
      4 tuples per GDSF for SM-2000
      1 or 2 tuples per GDSF for SM
TUPLE SEMANTICS:
      pidb (KEY) - PIDB (assigned to GDSF)
      picb - PICB for this GDSF
      dmsgpidb - 0x7f (default)
      dsgcpidb - 0x7f (default)
      rpidb1 - 0x7f (not used for GDSF)
      rpidb2 - 0x7f (not used for GDSF)
 DEPENDENCIES:
      RLdsc3pidb - 1 tuple whose key is picb.
      RLrc_loceq - 1 tuple keyed by SM number and PICB (+1).
      RLrc_eqloc - 1 tuple whose keys are SM number, Unit
              number, Service Group number, and Unit type.
      RLcktdata - 1 tuple defining the common control for the GDSF.
*************************************************************************/
```

**Attribute: pidb**

**Fullname:** peripheral interface data bus

**Attribute Description** Number of the peripheral interface data bus (PIDB) cable connecting to this service group. DFIs in an RSM are connected to the FIU via FIDBs, so in this case, the pidb field refers to the FIDB number. DFI-2s may have up to two PIDBs/FIDBs, so in this case, the pidb field refers to the first relative PIDB/FIDB on a board (for facility 0).

**Attribute: picb**

**Fullname:** peripheral interface control bus

**Attribute Description** Peripheral interface control bus. List all picb numbers that appear in CKTDATA relation for all units, include both service group zero and one in each unit. The peripheral interface control bus is cross checked against the upper byte of the attribute 'baseadd' in RLcktdata.

**Attribute: dmsgpidb**

**Fullname:** Mate service group PIDB.

**Attribute Description** Mate service group PIDB.

**Attribute: dsgcpidb**

**Fullname:** Service group companion PIDB.

**Attribute Description** Service group companion PIDB.

**Attribute: rpidb1**

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**Fullname:** Relative PIDB Number (Only used for PSIU/ISLU(2)/RISLU)

**Attribute Description** Relative PIDB Number (Only used for PSIU/ISLU(2)/RISLU/AIU) (Default value of 0x7F if unassigned)

**Attribute: rpidb2**

**Fullname:** Relative PIDB Number

**Attribute Description** Relative PIDB Number (Only used for RISLU) (Default value of 0x7F if unassigned)

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# PIDBLIMIT

## 1. Description

This relation defines the number of the PIDBs that the IDCU can have.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |

## 3. Field Layout

```
PIDBLIMIT   relid = 2205  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     pidblimit   DMUSHORT     (ushort)
     spare3      DMUNS8       (ushort: 8)
     idcu        DMIDCUNUM    (ushort: 6)     <--- key
 (a) spare1      DMBOOL       (enum: 1)
 (b) spare2      DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout  PIDBLIMIT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |           | | |
  0 |           pidblimit           |     spare3    |    idcu   |a|b|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLpidblimit

**Relation Description**
PIDB Growth Control Special Feature relation.

```
PIDB GROWTH CONTROL
-------------------
```

The PIDB Growth Control special feature provides a mechanism to enforce a pricing restructure for the IDCU. This feature will limit the number of PIDBs that an IDCU can have based upon how many PIDBs have been purchased.

**Attribute: idcu**

**Fullname:** Integrated Digital Carrier Unit

**Attribute Description** This attribute is the key to this relation and represents the IDCU that the PIDB limit applies to.

**Attribute: pidblimit**

**Fullname:** PIDB limit

**Attribute Description** This attribute represents the maximum number of PIDBs that the IDCU is allowed to have.

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# PLI_LNK

## 1. Description

This relation maps from the Time Slot Interchanger (TSI) end of the PCT link to the physical link position (with respect to the peripheral unit).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 36 |
| expected tuples in relation | 5 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
PLI_LNK     relid = 2094  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     cktname0    DMCIRCUIT    (ushort)
     cktname1    DMCIRCUIT    (ushort)
     unitnumber  DMUNITNO     (ushort: 8)
     unittype    DMUNITTYPE   (enum: 7)
 (a) is_ts_inv   DMBOOL       (enum: 1)
     tsi_link    DMLINKNO     (ushort: 6)       <--- key
     pct_link    DMPCTLNK     (ushort: 5)
         User, Compacted and Stored Tuple Layout    PLI_LNK
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             cktname0          |             cktname1          |
    |---------------+---------------+---------------+---------------|
    |               |             | |           |         |         |
  4 |   unitnumber  |   unittype  |a|  tsi_link | pct_link|*********|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLpli_lnk

**Relation Description**

```
        Peripheral Link to TSI Link mapping

        This relation maps from the physical link position
        (with respect to the TSI) to the Peripheral Unit
        end of the Peripheral Control and Timing (PCT) link.
        It is the reverse mapping of the RLlnk_pli relation.
        For each entry in RLpli_lnk there must be an associated
        entry in RLlnk_pli.
```

**Attribute:**

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tsi_link

**Fullname:**

TSI link number

**Attribute Description:**

This attribute identifies the TSI link associated with the specified PCT link.

**Attribute:**

unittype

**Fullname:**

Peripheral Unit Type

**Attribute Description:**

The type of peripheral unit.

**Attribute:**

unitnumber

**Fullname:**

unit number

**Attribute Description:**

The number that identifies the selected peripheral unit.

**Attribute:**

pct_link

**Fullname:**

peripheral control and timing unit link number

**Attribute Description:**

This attribute identifies the relative PCT link number for the peripheral. The range depends on the type of peripheral unit:

SMPSIU : Range is the same as the lower 5 bits of PCPCTLNK circuit index. It represents the PSU shelf number and the PCT connection which is always 0.

SMDNU_S: Range is 0 through 11 with links 0 through 5 being in data group 0 and links 6 through 11 in data group 1. There is only one tuple in this relation for each duplex PCT link connected to the CDs.

**Attribute:**

cktname[*]

**Fullname:**

circuit name

**Attribute Description:**

circuit name for either side 0 or side 1 to which the PCT link connects. For example, when PCT link is used in PSU, the circuit name is the name of PSU shelf PCSHLFPSIU. This field is populated only if the PCT link is connected to a PSU.

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**Attribute:**
is_ts_inv
**Fullname:**
Is Time Slot Inversion used?
**Attribute Description:**
This attribute will indicate if Time Slot Inversion is being used by the TSI link.

**Defines:**
"db/DMcircuit.h"

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# PMDSLGRP

## 1. Description

Associates a DSL with a DSL performance monitoring group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4096 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| trigger function | TMpmdslgrp |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| foldtype | DBDEFAULT |

## 3. Field Layout

```
PMDSLGRP    relid = 1737  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     portname    DMPORT       (ushort)     <--- key
     type        DMCKTTYPE    (enum)
     pmgrp       DMFACID      (ushort)
         User, Compacted and Stored Tuple Layout   PMDSLGRP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            portname           |               type            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             pmgrp             |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLpmdslgrp

**Relation Description**
Mapping from DSL to Performance Monitoring Group

This relation describes which performance monitoring group a digital subscriber line (DSL) is assigned to.

**Attribute: portname**

**Fullname:** Port Name

**Attribute Description** This is the internal port name of the D-channel on a DSL.

**Attribute: type**

**Fullname:** Circuit Type

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**Attribute Description** This is the circuit type of the circuit which is considered the parent of the DSL.

**Attribute: pmgrp**

**Fullname:** Performance Monitoring Group

**Attribute Description** This is the group ID of the performance monitoring group that includes the DSL.

**Defines:**"db/DMportindx.h"

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# PMEM_R

## 1. Description

This relation maps a Packet Pipe (PP) trunk port to its subtending PP member trunk ports or a Frame Relay Bearer Channel (FRBC) trunk port to its subtending BCM trunk ports.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 6550 |
| expected tuples in relation | 4550 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTORAGE |

## 3. Field Layout

```
PMEM_R      relid = 2758  DBSTORAGE  DBACC_HASH  DBPRAM    FG      NULL
     gport       DMGPORT      (struct)     <--- key
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     pptgmember  DMMEMBER     (ushort)
     ppmemptr    DMGK14       (ulong: 14)
     pptgnum     DMGRUPNM     (ushort: 13)
     farpsu_ca   DMPSUCA      (uchar)
     memmod      DMMODULE     (ushort: 8)
     num_mem     DMUNS5       (ushort: 5)
         User, Compacted and Stored Tuple Layout PMEM_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============ gport ============+===============|
    |                               |                |               |
  0 |              member           |****************|     module    |
    |===============+===============+================+===============|
    |                               |                          |    |
  4 |            pptgmember         |           ppmemptr       |***|
    |---------------+---------------+----------------+---------------|
    |                           |   |                |               |
  8 |          pptgnum          |***|   farpsu_ca    |     memmod    |
    |---------------+---------------+----------------+---------------|
    |          |                                                     |
 12 | num_mem  |*****************************************************|
    |----------+---------------+----------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLpmem_r

There are no population rules for this relation.

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# PMFACGRP

## 1. Description

This relation associates a facility with a performance monitoring group. The following units and facilities are supported:

```
Integrated Digital Carrier Unit (IDCU)
        - Digital Signal Level 1 (DS1)
Digital Facility Interface - 2 (DFI2)
        - Digital Signal Level 1 (DS1)
Digital Networking Unit-SONET (DNU-S)
        - SONET Termination Equipment (STE)
        - Virtual Tributary 1.5 (VT1.5)
        - Digital Signal Level 1 (DS1)
```

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2228 |
| expected tuples in relation | 13 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | TMpmfacgrp |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
PMFACGRP    relid = 1738  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     facname     DMCIRCUIT    (ushort) <--- key
     ckttype     DMCKTTYPE    (enum)
     pmgrp       DMFACID      (ushort)
         User, Compacted and Stored Tuple Layout   PMFACGRP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            facname            |            ckttype            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             pmgrp             |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLpmfacgrp

### Relation Description

```
Mapping from Facility to Performance Monitoring Group
This relation describes which performance monitoring group
a facility is assigned to. The facilities that are supported
are indicated in the ckttype attribute.
```

**Attribute:**

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facname

**Fullname:**

Circuit Name

**Attribute Description:**

This is the circuit name of the facility in the PM group.

**Attribute:**

ckttype

**Fullname:**

Type of Facility

**Attribute Description:**

This identifies the type of facility, and must be set to PCIFAC for integrated digital carrier unit (IDCU) facilities, and PCDF2FAC for digital facility interface model 2 (DFI-2) facilities.

It is set to: PCOC3FAC, PCSTEFAC, PCVT1FAC, or PCDS1SFAC for facilities associated with the Digital Networking Unit - SONET (DNU-S).

**Attribute:**

pmgrp

**Fullname:**

Performance Monitoring Group

**Attribute Description:**

This is the group ID of the performance monitoring group.

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# PMGRPDSL

## 1. Description

Associates a DSL performance monitoring group with the DSLs in the group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 786432 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application type | SWMTC |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| foldtype | DBDEFAULT |

## 3. Field Layout

```
PMGRPDSL    relid = 1739  DBSTATIC   DBACC_HASH  DBPRAM    LP      SWMTC
     pmgrp       DMFACID      (ushort)  <--- key
     portname    DMPORT       (ushort)  <--- key
     type        DMCKTTYPE    (enum)
     module      DMMODULE     (ushort: 8)  <--- key
         User, Compacted and Stored Tuple Layout   PMGRPDSL
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             pmgrp             |            portname           |
    |---------------+---------------+---------------+---------------|
    |                               |                 |             |
  4 |              type             |     module      |*************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLpmgrpdsl

**Relation Description**
This relation describes which digital subscriber lines (DSLs) are assigned to each performance monitoring group.

The key is comprised of the switching module (SM) number, the group ID of the performance monitoring group, and a DSL D-channel port name. For every DSL performance monitoring group defined in RLpmthresh, there is one tuple in this relation for each DSL in that group.

**Attribute: module**

**Fullname:** SM Number

**Attribute Description** This is the number of the SM on which the DSL resides.

**Attribute: pmgrp**

**Fullname:** Performance Monitoring Group

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**Attribute Description** This is the group ID of the performance monitoring group that includes the DSL.

**Attribute: portname**

**Fullname:** DSL Port Name

**Attribute Description** This is the port name of the D-channel on a DSL.

**Attribute: type**

**Fullname:** Circuit Type

**Attribute Description** This is the circuit type of the parent circuit of the DSL D-channel.

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# PMGRPFAC

## 1. Description

Specifies the circuit type given the circuit name, SM, and the performance monitoring group of the facility.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 47196 |
| expected tuples in relation | 154 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application type | SWMTC |
| relation type | DBSTATIC |

## 3. Field Layout

```
PMGRPFAC    relid = 1740  DBSTATIC   DBACC_HASH  DBPRAM    LP      SWMTC
     pmgrp       DMFACID      (ushort)  <--- key
     facname     DMCIRCUIT    (ushort)  <--- key
     ckttype     DMCKTTYPE    (enum)
     module      DMMODULE     (ushort: 8)  <--- key
         User, Compacted and Stored Tuple Layout   PMGRPFAC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              pmgrp            |             facname           |
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  4 |             ckttype           |     module    |***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLpmgrpfac

**Relation Description**
This relation describes which facilities are assigned to each performance monitoring group.

The key is comprised of the switching module (SM) number, the group ID of the performance monitoring group, and facility circuit name. There is one tuple in RLpmgrpfac for every performance monitoring group defined in RLfacthrsh.

**Attribute: module**

**Fullname:** SM Number

**Attribute Description** This is the number of the SM on where the facility is assigned.

**Attribute: pmgrp**

**Fullname:** Performance Monitoring Group

**Attribute Description** This is the group ID of the performance monitoring group that includes the facility.

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**Attribute: facname**

**Fullname:** Facility Circuit Name

**Attribute Description** This is the circuit name of the facility.

**Attribute: ckttype**

**Fullname:** Type of Facility

**Attribute Description** This identifies the type of facility in the PM group. Performance monitoring is supported for the following units:

```
Integrated digital carrier unit (IDCU)
- Digital signal level 1 (DS1)
Digital facility interface - 2 (DFI-2)
- Digital signal level 1 (DS1)
Digital networking unit-synchronous optical network (SONET) (DNU-S)
- SONET termination equipment (STE)
- Virtual tributary 1.5 (VT1.5)
- Digital signal level 1 (DS1)
```

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# PMM1_G

## 1. Description

Storage relation for packet pipe trunk port to subtending PP member trunk ports.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 6000 |
| expected tuples | 500 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTORAGE |
| ks key store | AUTO |
| foldtype | DBGC31 |
| gkidxrel reverse index | rlPMM1_I |

## 3. Field Layout

```
PMM1_G      relid = 2759  DBSTORAGE  DBACC_GK    DBPRAM    FG      NULL
     gkPMM1_G    DMGK14       (ulong: 14)     <--- key, not stored
     ppmptr0     DMGK14       (ulong: 14)
     ppmptr1     DMGK14       (ulong: 14)
     ppmptr2     DMGK14       (ulong: 14)
     ppmptr3     DMGK14       (ulong: 14)
         User and Compacted Tuple Layout     PMM1_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkPMM1_G             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
  4 |          ppmptr0              |          ppmptr1              |*******|
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
  8 |          ppmptr2              |          ppmptr3              |*******|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
     ppmptr0     DMGK14       (ulong: 14)
     ppmptr1     DMGK14       (ulong: 14)
     ppmptr2     DMGK14       (ulong: 14)
     ppmptr3     DMGK14       (ulong: 14)
           Stored Tuple Layout   PMM1_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                         GK LINK FIELD                         |
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
  4 |          ppmptr0              |          ppmptr1              |*******|
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
  8 |          ppmptr2              |          ppmptr3              |*******|
```

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```
|---------------+---------------+---------------+---------------|
   ( 12 bytes )
```

## 4. Population Rules for RLpmm1_g

There are no population rules for this relation.

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# PMM2_G

## 1. Description

Storage relation for pp trunk port to its subtending PP member trunk ports.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| expected tuples | 50 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTORAGE |
| ks key store | AUTO |
| foldtype | DBGC31 |
| gkidxrel reverse index | rlPMM2_I |

## 3. Field Layout

```
PMM2_G      relid = 2760  DBSTORAGE  DBACC_GK    DBPRAM    FG      NULL
     gkPMM2_G    DMGK14       (ulong: 14)     <--- key, not stored
     mport0      DMPORT       (ushort)
     mport1      DMPORT       (ushort)
     mport2      DMPORT       (ushort)
     mport3      DMPORT       (ushort)
     mport4      DMPORT       (ushort)
     mport5      DMPORT       (ushort)
         User and Compacted Tuple Layout     PMM2_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkPMM2_G             |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  4 |             mport0              |             mport1            |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  8 |             mport2              |             mport3            |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
 12 |             mport4              |             mport5            |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
     mport0      DMPORT       (ushort)
     mport1      DMPORT       (ushort)
     mport2      DMPORT       (ushort)
     mport3      DMPORT       (ushort)
     mport4      DMPORT       (ushort)
     mport5      DMPORT       (ushort)
           Stored Tuple Layout   PMM2_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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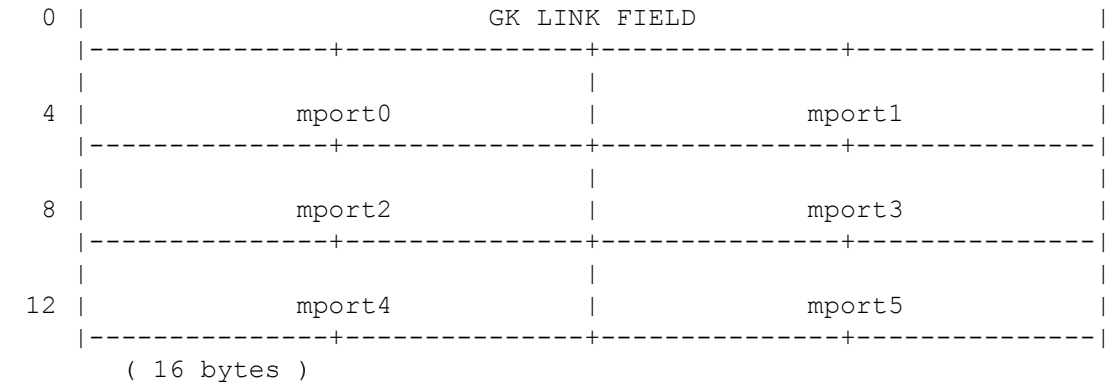


## 4. Population Rules for RLpmm2_g

There are no population rules for this relation.

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# PMTHRESH

## 1. Description

This relation defines the threshold values to be used by layer 1 performance monitoring for a particular ISDN interface. Each tuple represents a set of thresholds to be used by an individual BRI or group of BRIs. In the 5E6(1) generic the only circuits that will have variable performance monitoring thresholds are *ANSI*® Standard U-DSLs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3840 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFG |
| relation type | DBSTATIC |
| ks keystore | AUTO |
| trigger function | TMpmthtg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
PMTHRESH    relid = 1289  DBSTATIC   DBACC_CIND  DBPRAM    LRFG    NULL
     pmgrp       DMFACID      (ushort)  <--- key, not stored
     acd_es      DMACDES      (ushort: 12)
 (a) ach_inh     DMBOOL       (enum: 1)
 (b) acd_inh     DMBOOL       (enum: 1)
 (c) rci_inh     DMBOOL       (enum: 1)
 (d) rcd_inh     DMBOOL       (enum: 1)
     rcd_es      DMRCDES      (ushort: 12)
 (e) inh_pm      DMBOOL       (enum: 1)
     acd_ses     DMACDSES     (ushort: 11)
     rcd_ses     DMRCDSES     (ushort: 11)
     ach_es      DMACHES      (ushort: 8)
     rci_es      DMRCIES      (ushort: 8)
     ach_ses     DMACHSES     (ushort: 7)
     rci_ses     DMRCISES     (ushort: 7)
         User and Compacted Tuple Layout   PMTHRESH
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             pmgrp             |*******************************|
    |---------------+---------------+---------------+---------------|
    |                       | | | | |                       | |     |
  4 |         acd_es        |a|b|c|d|         rcd_es        |e|*****|
    |---------------+---------------+---------------+---------------|
    |                     |         |                     |         |
  8 |       acd_ses       |*********|       rcd_ses       |*********|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |   |
 12 |     ach_es    |     rci_es    |   ach_ses     |   rci_ses     |***|
    |---------------+---------------+---------------+---------------|
```

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```
      ( 16 bytes )
    acd_es      DMACDES      (ushort: 12)
(a) ach_inh     DMBOOL       (enum: 1)
(b) acd_inh     DMBOOL       (enum: 1)
(c) rci_inh     DMBOOL       (enum: 1)
(d) rcd_inh     DMBOOL       (enum: 1)
    rcd_es      DMRCDES      (ushort: 12)
(e) inh_pm      DMBOOL       (enum: 1)
    acd_ses     DMACDSES     (ushort: 11)
    rcd_ses     DMRCDSES     (ushort: 11)
    ach_es      DMACHES      (ushort: 8)
    rci_es      DMRCIES      (ushort: 8)
    ach_ses     DMACHSES     (ushort: 7)
    rci_ses     DMRCISES     (ushort: 7)
          Stored Tuple Layout     PMTHRESH
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                       | | | | |                       | |     |
 0 |         acd_es        |a|b|c|d|         rcd_es        |e|*****|
   |---------------+---------------+---------------+---------------|
   |                     |         |                     |         |
 4 |       acd_ses       |*********|       rcd_ses       |*********|
   |---------------+---------------+---------------+---------------|
   |               |               |             |             |   |
 8 |     ach_es    |     rci_es    |   ach_ses   |   rci_ses   |***|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population Rules for RLpmthresh

**Relation Description**
Layer 1 DSL Performance Monitoring Thresholds.

This relation defines the threshold values to be used by layer 1 DSL performance monitoring for a particular ISDN interface. Each tuple represents a set of thresholds to be used by an individual BRI or group of BRIs. In the 5E6(1) generic the only circuits that will have variable performance monitoring thresholds are *ANSI*® and AMI U-DSLs. One tuple per Performance Monitoring Group (PMGRP). A PMGRP can be inserted at any time, but must exist before referenced by RLpmdslgrp or RLpmgrpdsl. The RLPMTHRESH relation will always be populated with at least one tuple (/PMGDEF) with the following values:

```
pmgrp   =  /PMGDEF
ach_es  =  40
ach_ses =  10
acd_es  =  100
acd_ses =  25
rci_es  =  20
rci_ses =  5
rcd_es  =  50
rcd_ses =  15
ach_inh =  DBNO
acd_inh =  DBNO
rci_inh =  DBNO
rcd_inh =  DBNO
inh_pm  =  DBNO
```

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The /PMGDEF group is the generic office default. This tuple is populated for each office and is not recent changeable. If the generic office default is specified the tuple is to be populated with the PMGRP name of PMDEF. The value of the other attributes is to be set to the generic office defaults unless otherwise specified. Any new PM group other than /PMGDEF or PMDEF will require a new tuple. The default for any attribute in the new group is to be the corresponding attribute from the /PMGDEF tuple unless there is a PMDEF tuple populated. In which case the attribute values from the PMDEF tuple is to be used. This relation is to be populated in an SM for each threshold group tuple that is referred by a circuit in that SM. This reference is provided by the RLpmdslgrp and RLpmgrpdsl relations. When a group is inserted it is to be populated in only one processor (AM) until it is referenced by a circuit. Then it is populated in the SM where the circuit is located. The /PMGDEF tuple is populated only in the AM. The RLpmthresh tuple on the SM cannot be deleted until the group is no longer referenced (in RLpmdslgrp) on the SM. The RLpmthresh tuple on the AM/CMP cannot be deleted until the group is no longer referenced on any SM. For AMI U-cards the following fields are used. The others are not used but must be specified or defaulted.

```
acd_es
rcd_es
acd_inh
rcd_inh
inh_pm
```

**Attribute: pmgrp**

**Fullname:** Performance Monitoring Group Name

**Attribute Description**Key to the relation which identifies which group of thresholds are to be used by a specific ISLU U-card or IDCU DSL.

**Attribute: ach_es**

**Fullname:** Alert Threshold for Current Hour Errored Seconds

**Attribute Description**Specifies the number of errored seconds that are allowed before the current hour alert count is considered to have too many errors.

**Attribute: ach_ses**

**Fullname:** Alert Threshold for Current Hour Severely Errored Seconds

**Attribute Description**Specifies the number of severely errored seconds that are allowed before the current hour alert count is considered to have too many errors.

**Attribute: acd_es**

**Fullname:** Alert Threshold for Current Day Errored Seconds

**Attribute Description** Specifies the number of errored seconds that are allowed before the current day alert count is considered to have too many errors.

**Attribute: acd_ses**

**Fullname:** Alert Threshold for Current Day Severely Errored Seconds

**Attribute Description** Specifies the number of severely errored seconds that are allowed before the current day alert count is considered to have too many errors.

**Attribute: rci_es**

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**Fullname:** Report Threshold for Current Interval Errored Seconds

**Attribute Description** Specifies the number of errored seconds that are allowed before the current interval report count is considered to have too many errors.

**Attribute: rci_ses**

**Fullname:** Report Threshold for Current Interval Severely Errored Seconds

**Attribute Description** Specifies the number of severely errored seconds that are allowed before the current interval report count is considered to have too many errors.

**Attribute: rcd_es**

**Fullname:** Report Threshold for Current Day Errored Seconds

**Attribute Description** Specifies the number of errored seconds that are allowed before the current day report count is considered to have too many errors.

**Attribute: rcd_ses**

**Fullname:** Report Threshold for Current Day Severely Errored Seconds

**Attribute Description** Specifies the number of severely errored seconds that are allowed before the current day report count is considered to have too many errors.

**Attribute: ach_inh**

**Fullname:** Inhibit the Performance Monitoring Current Hour Alert

**Attribute Description** Inhibits the generation of performance monitoring current hour reports for all circuits pointing to this tuple.

**Attribute: acd_inh**

**Fullname:** Inhibit the Performance Monitoring Current Day Alert

**Attribute Description** Inhibits the generation of performance monitoring current day reports for all circuits pointing to this tuple.

**Attribute: rci_inh**

**Fullname:** Inhibit the Performance Monitoring Current Interval Report

**Attribute Description** Inhibits the generation of performance monitoring current interval reports for all circuits pointing to this tuple.

**Attribute: rcd_inh**

**Fullname:** Inhibit the Performance Monitoring Current Day Report

**Attribute Description** Inhibits the generation of performance monitoring current day reports for all circuits pointing to this tuple.

**Attribute: inh_pm**

**Fullname:** Inhibit Performance Monitoring

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**Attribute Description** Inhibits all performance monitoring for all circuits pointing to this tuple.

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# POL_MTX

## 1. Description

Telecommunicaton Standarization Sector (ITU-TS) STP OPC/DPC policing status.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 256 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCpol_mtx |
| insert trigger | DBYES |
| delete trigger | DBNO |
| update trigger | DBYES |
| end of transaction trigger | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
POL_MTX     relid = 2517  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     mtxindx     DMUNS8       (ushort: 8)     <--- key
     spare       DMHEX24      (ulong: 24)
     pol_pc00    DMHEX16      (ushort)
     pol_pc01    DMHEX16      (ushort)
     pol_pc02    DMHEX16      (ushort)
     pol_pc03    DMHEX16      (ushort)
     pol_pc04    DMHEX16      (ushort)
     pol_pc05    DMHEX16      (ushort)
     pol_pc06    DMHEX16      (ushort)
     pol_pc07    DMHEX16      (ushort)
     pol_pc08    DMHEX16      (ushort)
     pol_pc09    DMHEX16      (ushort)
     pol_pc10    DMHEX16      (ushort)
     pol_pc11    DMHEX16      (ushort)
     pol_pc12    DMHEX16      (ushort)
     pol_pc13    DMHEX16      (ushort)
     pol_pc14    DMHEX16      (ushort)
     pol_pc15    DMHEX16      (ushort)
         User, Compacted and Stored Tuple Layout    POL_MTX
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |    mtxindx    |                     spare                     |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            pol_pc00           |            pol_pc01           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            pol_pc02           |            pol_pc03           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |            pol_pc04           |            pol_pc05           |
```

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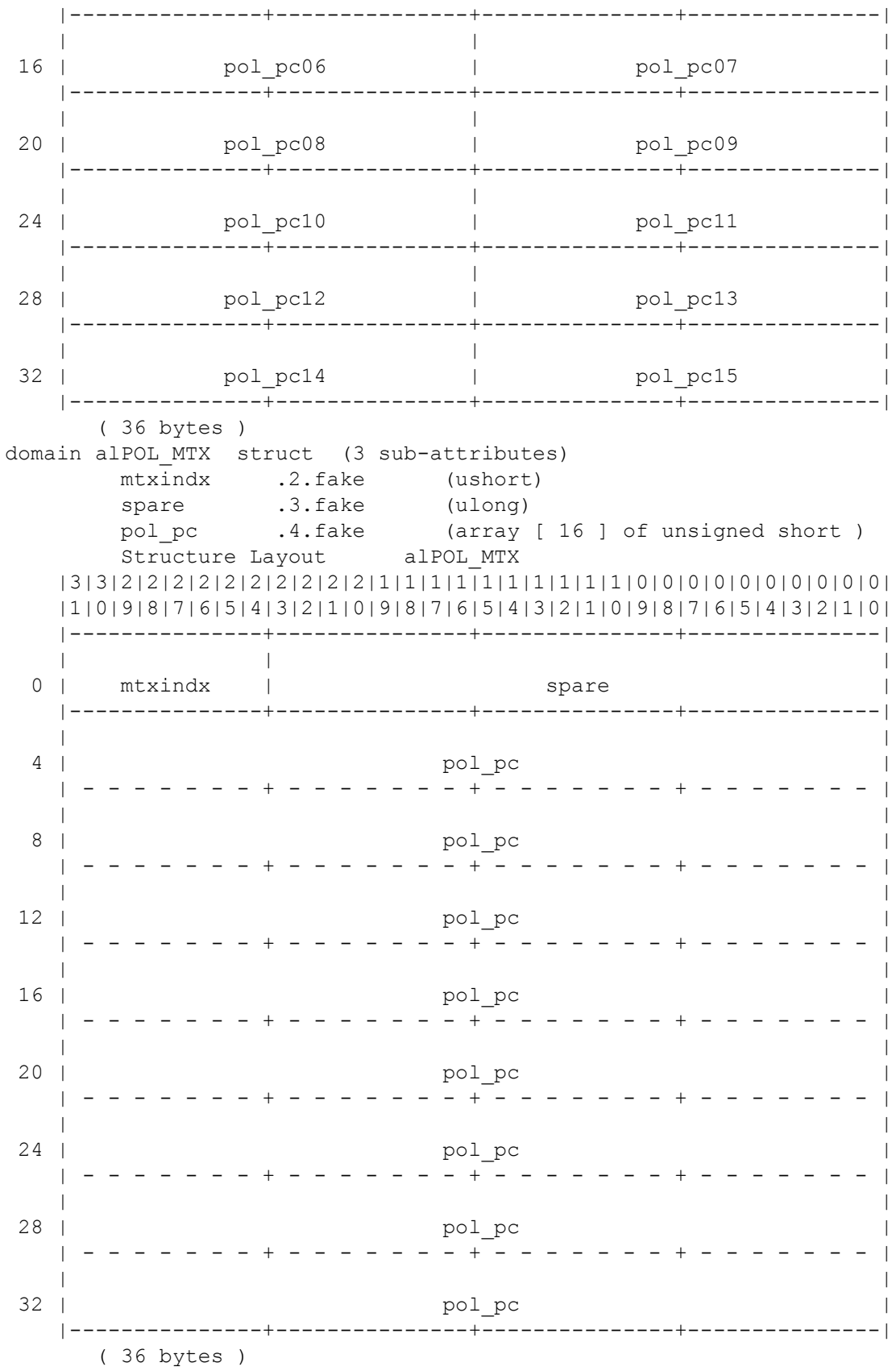


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## 4. Population Rules for RLpol_mtx

**Relation Description**
STP OPC Policing Matrix.

This relation defines whether the STP function is allowed or prohibited between each OPC and DPC pair. 'mtxindx' will represent the index entry for the OPC. 'pol_pc' is an array that contains that status bits for every DPC. To read the status of a particular OPC/DPC pair, one must have two indicators: 'mtxindx' to get the OPC tuple and the index to reach the bit corresponding to the DPC in pol_pc(s). Each bit in 'pol_pc' list status of an OPC/DPC pair.

**Attribute: mtxindx**

**Fullname:** Policing Matrix Index.

**Attribute Description** This is used as key into the RLpol_mtx table and represents an Originating Point Code.

**Attribute: spare**

**Fullname:** Spare

**Attribute Description** This is a spare field that is used to hold checksum values in the alternate structure.

**Attribute: pol_pc[*]**

**Fullname:** Policed destination point codes.

**Attribute Description** This is an array of 16 16-bit elements. Each bit indicates the STP function status (allow or prohibit) for each OPC/DPC pair. The index position of each bit in the tuple represents the mtxindx for the Destination Point Code.

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# POLICING

## 1. Description

Telecommunicaton Standarization Sector (ITU-TS) message transfer part policing information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 512 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBNO |
| update trigger | DBYES |
| delete trigger | DBNO |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
POLICING    relid = 2518  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     polindx     DMUNS9       (ushort: 9)     <--- key
     fill1       DMUNS16      (ushort)
 (a) pol_own     DMPOLOWN     (enum: 1)
 (b) stp_pol     DMBOOL       (enum: 1)
 (c) stp_rep     DMBOOL       (enum: 1)
 (d) opc_rep     DMBOOL       (enum: 1)
 (e) dpc_rep     DMBOOL       (enum: 1)
 (f) snm_pol     DMBOOL       (enum: 1)
 (g) snm_rep     DMBOOL       (enum: 1)
     linkset     DMUNS8       (ushort: 8)
     dpc         DMDPC        (ulong: 24)
     h0h1_00     DMHEX16      (ushort)
     h0h1_01     DMHEX16      (ushort)
     h0h1_02     DMHEX16      (ushort)
     h0h1_03     DMHEX16      (ushort)
     h0h1_04     DMHEX16      (ushort)
     h0h1_05     DMHEX16      (ushort)
     h0h1_06     DMHEX16      (ushort)
     h0h1_07     DMHEX16      (ushort)
     h0h1_08     DMHEX16      (ushort)
     h0h1_09     DMHEX16      (ushort)
     h0h1_10     DMHEX16      (ushort)
     h0h1_11     DMHEX16      (ushort)
     h0h1_12     DMHEX16      (ushort)
     h0h1_13     DMHEX16      (ushort)
     h0h1_14     DMHEX16      (ushort)
     h0h1_15     DMHEX16      (ushort)
     opc_siw     DMHEX16      (ushort)
     dpc_siw     DMHEX16      (ushort)
         User, Compacted and Stored Tuple Layout   POLICING
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
```

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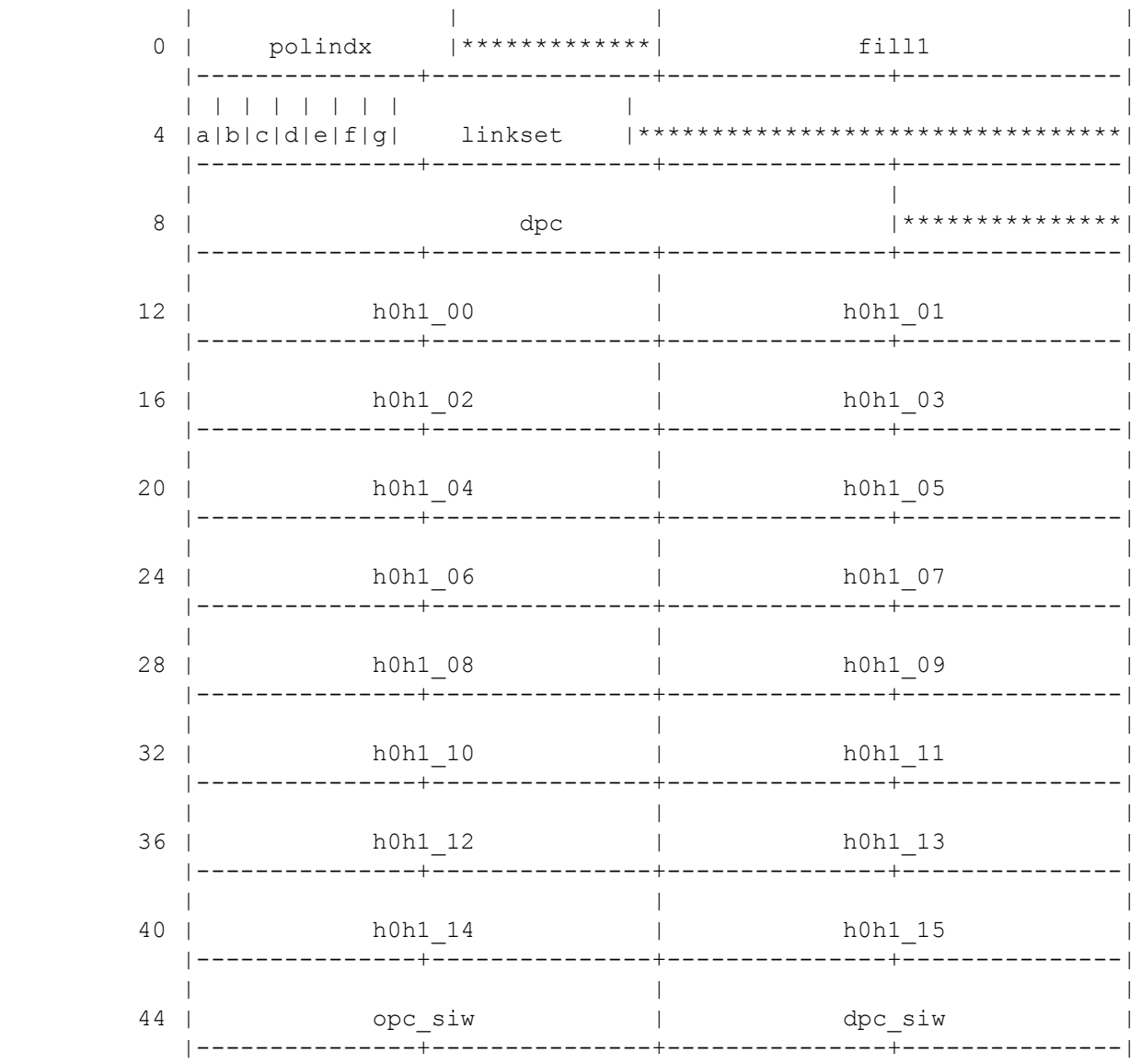


```
      ( 48 bytes )
domain alPOLICING struct  (14 sub-attributes)
         polindx     .3.fake      (ushort: 9)
         fill1       unsigned short (ushort)
  (a)    pol_own     .1fake       (enum)
  (b)    stp_pol     .0fake       (enum)
  (c)    stp_rep     .0fake       (enum)
  (d)    opc_rep     .0fake       (enum)
  (e)    dpc_rep     .0fake       (enum)
  (f)    snm_pol     .0fake       (enum)
  (g)    snm_rep     .0fake       (enum)
         linkset     .4.fake      (ushort)
         dpc         .5.fake      (ulong)
         h0h1        .6.fake      (array [ 16 ] of unsigned short )
         opc_siw     unsigned short (ushort)
         dpc_siw     unsigned short (ushort)
        Structure Layout      alPOLICING
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
```

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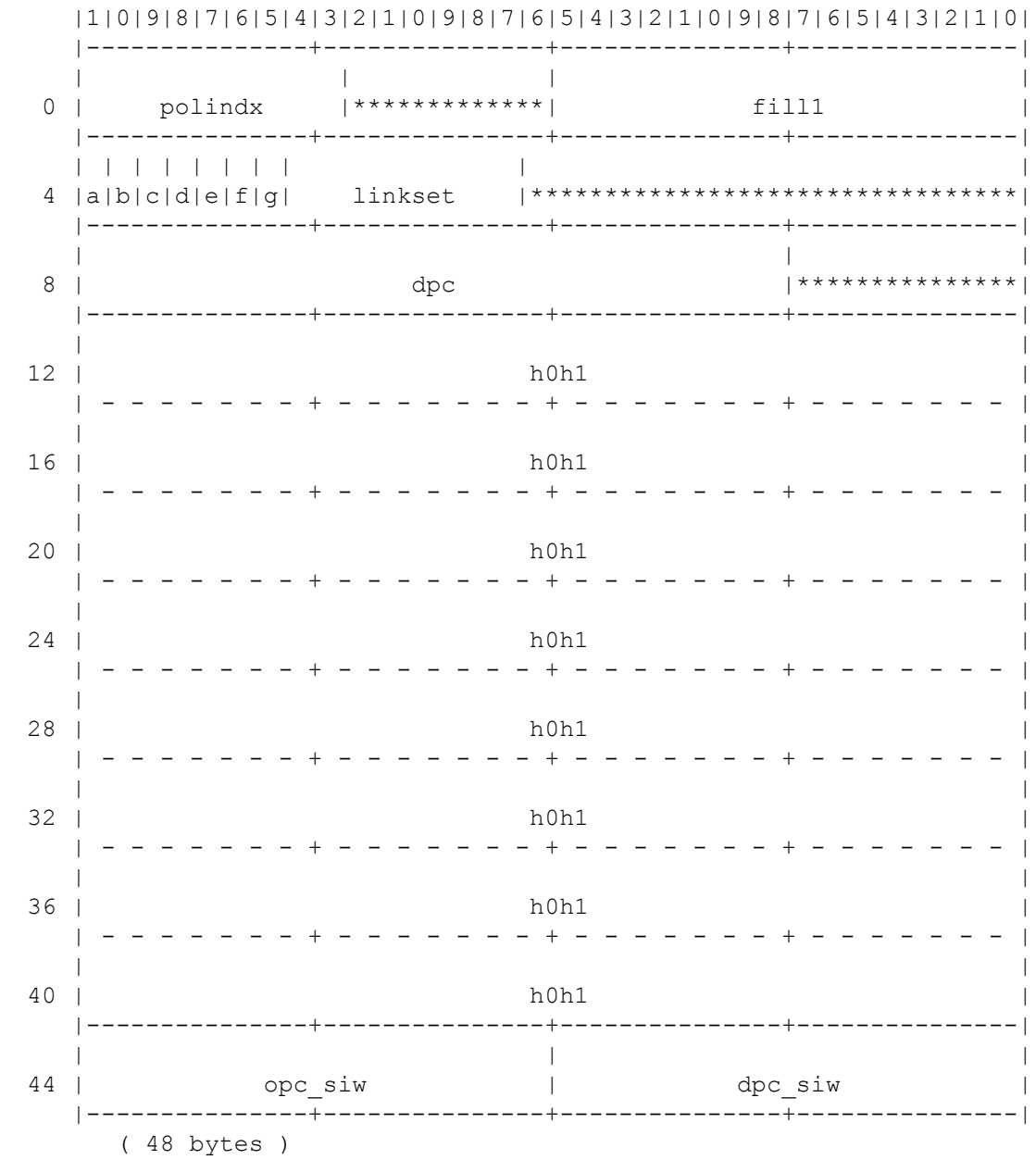


( 48 bytes )

## 4. Population Rules for RLpolicing

**Relation Description**
Standardization sector (SS7) Message Transfer Part (MTP) policing information.

This relation contains the expanded information required for all MTP policing functions and exists only if policing is provided based on the attribute olo_gw being set to DBYES in the relation RLoff_par. Signaling Transfer Point, Signaling Network Management policing as well as the User Part policing information is contained in this relation for the message transfer part of National SS7 common channel signaling.

**Attribute: polindx**

**Fullname:** policing index from RLdpc_info or RLls_grp

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**Attribute Description** polindx is the key to this relation.

**Attribute: snm_rep**

**Fullname:** Boolean for software reporting of policed SNM messages.

**Attribute Description** Indicates whether or not software reporting of policed SNM messages is required.

**Attribute: linkset**

**Fullname:** Link set

**Attribute Description** The link set number if the owner is a link set.

**Attribute: stp_pol**

**Fullname:** Boolean for Signal Transfer Point (STP) policing.

**Attribute Description** Indicates if the destination or link set requires the STP policing function. That is, if an incoming message is detected for another point code (that is, not the current office ) on a link set which has STP policing the message must be stopped. Similarly, if an outgoing message is detected for a DPC which has STP policing it also must be stopped.

**Attribute: opc_siw**

**Fullname:** This attribute contains the set of Service Indicator codes defining the User Parts which are being policed from certain originating point codes.

**Attribute Description** Contains the set of service indicator codes which are policed from the dpc. This feature examines the Service Indicator of User Part messages and certain ones are thrown away. The service indicator is a 4 bit value allowing for up to 16 service indicator codes which can be policied. This field is used to store these service indicator codes in the opc_siw attribute when incoming messages are to be screened in the following way: The value of the service indicator is used to locate a bit position in opc_siw. This bit is set to "1" when the corresponding service indicator value is being policed. The least significant bit of opc_siw is used to indicate if the service indicator code of zero is policed and the most significant bit of opc_siw is used to indicate if the service indicator code of 15 is policed.

**Attribute: pol_own**

**Fullname:** The owner of this policing attribute ( DPC or Link Set )

**Attribute Description** Indicates whether the policing is for a Linkset or a Destination Point Code.

**Attribute: dpc_siw**

**Fullname:** Service Indicator codes defining the User Parts which are being policed to certain destination point codes.

NOTE: - A single point code may have both incoming (opc_siw) and outgoing (dpc_siw) policing active simultaneously but in different modes. Thus the need for both fields.

**Attribute Description** Is populated with the set of service indicator codes which are policed to the dpc. This field is defaulted to zero for tuples which are defined with link set owners. Also if this field

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is set to zero for dpc owners this indicates that no outgoing UP policing is required which is based upon the DPC of the message and the service indicator. This feature examines the Service Indicator of User Part messages and certain ones are thrown away. The service indicator is a 4 bit value allowing for up to 16 service indicator codes which can be policied. This field is used to store these service indicator codes in the dpc_siw attribute when incoming messages are to be screened in the following way: The value of the service indicator is used to locate a bit position in dpc_siw. This bit is set to "1" when the corresponding service indicator value is being policed. The least significant bit of dpc_siw is used to indicate if the service indicator code of zero is policed and the most significant bit of dpc_siw is used to indicate if the service indicator code of 15 is policed.

**Attribute: opc_rep**

**Fullname:** Boolean for incoming user part policed messages.

**Attribute Description** This boolean attribute allows incoming user part policed messages to generate fault reports or not.

**Attribute: dpc_rep**

**Fullname:** Boolean for incoming user part policed messages.

**Attribute Description** This boolean attribute allows outgoing user part policed messages to generate fault reports or not.

**Attribute: dpc**

**Fullname:** Destination Point Code

**Attribute Description** The destination point code if the owner is a destination.

**Attribute: stp_rep**

**Fullname:** Boolean for software reporting of policed STP messages

**Attribute Description** Indicates whether or not software reporting of policed STP messages is required.

**Attribute: snm_pol**

**Fullname:** Boolean for Signaling Network Management (SNM) policing

**Attribute Description** Indicates whether or not the destination or link set requires the SNM policing function. That is if an incoming message is detected to be of a certain type (defined in h0h1) on a link set which has SNM policing the message must be stopped. Similarly, if an outgoing message is detected of a certain type for a DPC which has SNM policing the message must again be stopped.

**Attribute: h0h1[*]**

**Fullname:** Signaling Network Management Heading Codes

**Attribute Description** These attributes contain the set of h0/h1 Signaling Network Management heading codes which are being policed.

h0h1 - Is an array of unsigned 16 bit shorts which contains the set of ho/h1 Signaling Network Management heading codes which are being policed.

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h0h1_00 through h0h1_15 fields can only be populated if the snm_pol field is DBYES. The SNM policing feature examines network management messages and certain ones are thrown away. The messages which are thrown away are identified by what is called "H0" and "H1" heading codes. This relation is used to store these heading codes in the h0h1_00 through h0h1_15 attributes in the following way: The value of h0 is used to indicate which h0h1# attribute to use. (that is, h0 = 0 -> h0h1_00, h0 = 1 -> h0h1_01, etc.) The value of h1 is used to locate the bit position in the array element. This bit position is set to "1" if the corresponding h0 and h1 combination is being policied. The least significant bit of h0h1_<h0> is used to indicate if h1 of zero is policed and the most significant bit of h0h1_<h0> is used to indicate if h1 of 15 is policed.

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# PORT_GROUP

## 1. Description

Port to group and member.

This is a virtual relation. The tree diagram Figure 1 depicts the stored structure of virtual relation PORT_GROUP.

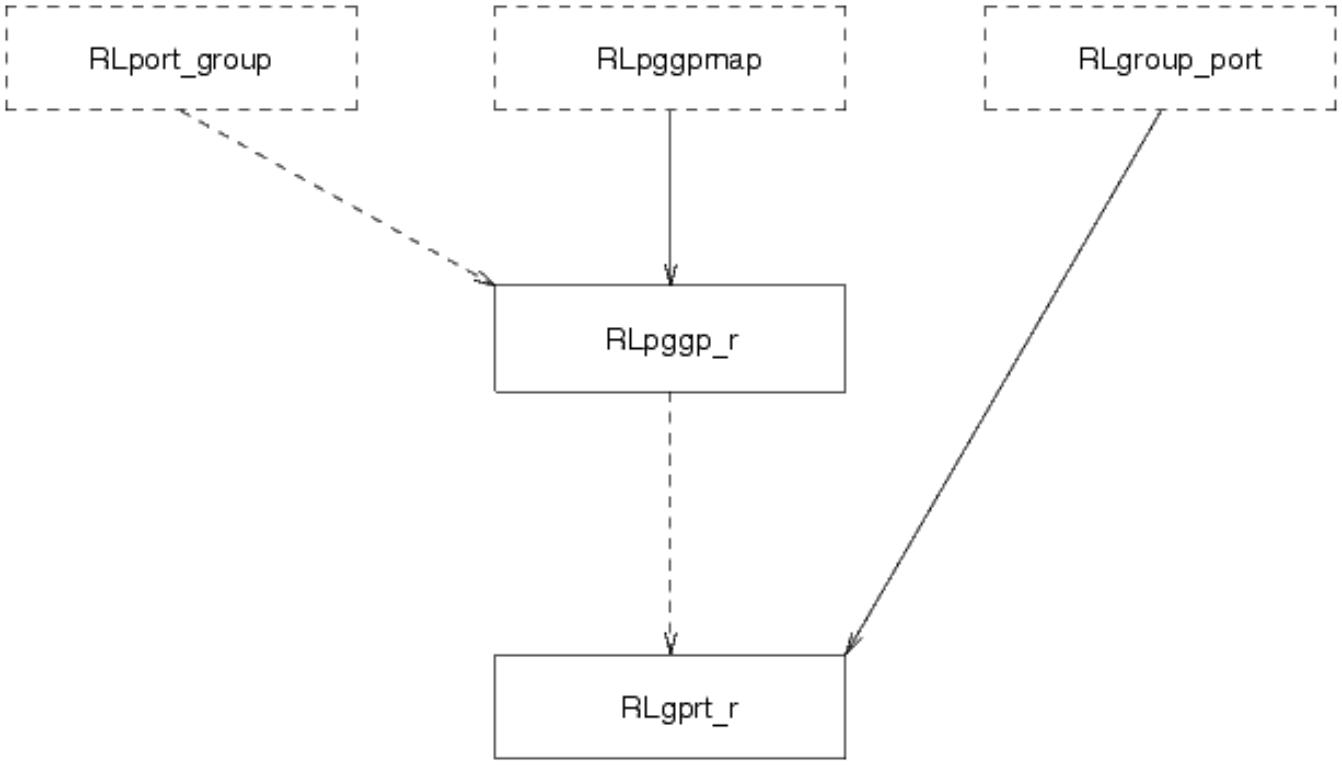


**Figure 1 Virtual Relation PORT_GROUP**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LPFPFG |
| application | GCRTG |
| relation type | DBNOUPDT |
| permutation type | perm |

## 3. Field Layout

```
PORT_GROUP  relid = 50    DBNOUPDT   DBACC_OPV   DBNOTODD  LPFPFG  GCRTG
     port         DMGPORT      (struct)     <--- key
          member      DMPORT       (ushort)
          module      DMMODULE     (ushort: 8)
     member       DMMEMBER     (ushort)
     party        DMPARTY      (ushort: 4)     <--- key
 (a) lpt_type     DMLPT_TYPE   (enum: 2)
 (b) ltm_type     DMLTM_TYPE   (enum: 1)
     portgrp      DMPORTGRP    (struct)     <--- compacted
          grpnum      DMGRPNUM     (ushort)
 (c)      grptype     DMPTYPE      (enum: 1)
```

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```
    qkey        DMUNS16      (ushort)
    lport       DMLPORT      (ushort: 16)
    ltm_idx     DMLTM_IDX    (ulong: 16)
    tsi_link    DMLINKNO     (ushort: 6)
    vpidb       DMVPIDB      (ushort: 6)
           User Tuple Layout    PORT_GROUP
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+============  port ============+===============|
   |                               |                |                |
 0 |              member           |****************|     module     |
   |===============+===============+================+================|
   |                               |        |       |   | |          |
 4 |              member           | party  |*******| a |b|**********|
   |===============+=========== portgrp ===========+================|
   |                               |              | |                |
 8 |              grpnum           |**************|c|****************|
   |===============+===============+================+================|
   |                               |                                  |
12 |               qkey            |              lport               |
   |---------------+---------------+----------------+----------------|
   |                               |           |           |        |
16 |             ltm_idx           |  tsi_link |    vpidb  |*******|
   |---------------+---------------+----------------+----------------|
      ( 20 bytes )
    port        DMGPORT      (struct)     <--- key
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    member      DMMEMBER     (ushort)
    party       DMPARTY      (ushort: 4)     <--- key
(a) lpt_type    DMLPT_TYPE   (enum: 2)
(b) ltm_type    DMLTM_TYPE   (enum: 1)
    portgrp     DMCPRTGP     (struct)     <--- compacted
(c)     zerobits    DMUNS3       (ushort: 3)
        grpnum      DMGRUPNM     (ushort: 13)
(d)     grptype     DMPTYPE      (enum: 1)
    qkey        DMUNS16      (ushort)
    lport       DMLPORT      (ushort: 16)
    ltm_idx     DMLTM_IDX    (ulong: 16)
    tsi_link    DMLINKNO     (ushort: 6)
    vpidb       DMVPIDB      (ushort: 6)
       Compacted and Stored Tuple Layout    PORT_GROUP
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+============  port ============+===============|
   |                               |                |                |
 0 |              member           |****************|     module     |
   |===============+===============+================+================|
   |                               |        |       |   | |          |
 4 |              member           | party  |*******| a |b|**********|
   |===============+=========== portgrp ===========+================|
   |     |                         |              | |                |
 8 |  c  |           grpnum        |**************|d|****************|
   |===============+===============+================+================|
```

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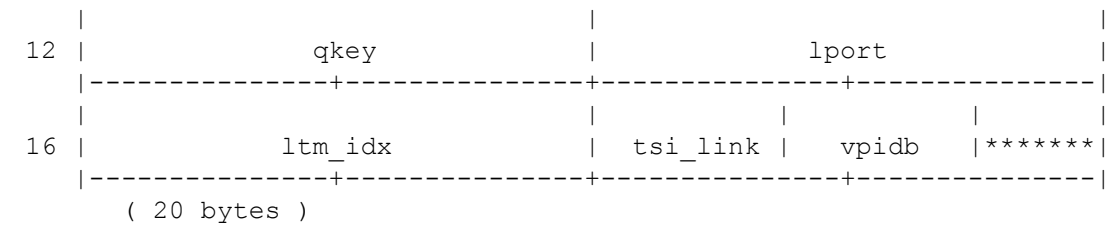


## 4. Population Rules for RLport_group

There are no population rules for this relation.

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# PORT_POS

## 1. Description

This relation contains the port to position mapping.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4095 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | ACDQ |
| relation type | DBSTATIC |
| head table size | 512 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
PORT_POS    relid = 640   DBSTATIC   DBACC_HASH  DBPRAM    LP      ACDQ
     gbport      DMGPORT      (struct)     <--- key
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     posnum      DMPOSNUM     (ushort: 12)
 (a) oaffb1      DMBOOL       (enum: 1)
 (b) oaffb2      DMBOOL       (enum: 1)
 (c) oaffb3      DMBOOL       (enum: 1)
 (d) oaffb4      DMBOOL       (enum: 1)
     oaffc1      DMUCHAR      (uchar)
     oaffc2      DMUCHAR      (uchar)
         User, Compacted and Stored Tuple Layout   PORT_POS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+===========  gbport ===========+===============|
    |                                 |                |               |
  0 |              member             |****************|     module    |
    |===============+===============+================+===============|
    |                         | | | | |                |               |
  4 |          posnum         |a|b|c|d|     oaffc1     |     oaffc2    |
    |---------------+---------------+----------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLport_pos

**Relation Description**
Port to Position

Port to position mapping This relation must be kept consistent with the relations RLpos_port, RLlprt_pos and RLpos_lprt. Consistency means that corresponding tuples in each of these four relations must exist and certain attributes in these tuples must have the same value. These attributes are listed in the POPULATION RULES of RLpos_lprt.

**Attribute: gbport**

**Fullname:** B-channel global port

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**Attribute Description** The B-channel global port to which this position is assigned. Can not be recent changed while the port is in service. This is indicated by the bsc_state attribute in RLPORTLA as keyed by the same port.

**Attribute: gbport.member**

**Fullname:** global b-channel port member

**Attribute Description** Member for B-channel global port.

**Attribute: gbport.module**

**Fullname:** Module for B-channel global port

**Attribute Description** module for B-channel global port

**Attribute: posnum**

**Fullname:** position number

**Attribute Description** Position number. Can not be recent changed if the position is logged in. A position is not logged in when it is linked to the unoccupied serving team head cell in RLhcservtm.

**Defines:** "db/DMport.h"

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# PORT2VSM

## 1. Description

This WCTX relation contains the analog PORT to VLR SM data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3072 |
| expected number of tuples | 1200 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution type | FP |
| relation type | DBSTATIC |
| ks key store | DBNO |
| trigger function | PCSp2vsmtr |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction | DBYES |

## 3. Field Layout

```
PORT2VSM    relid = 2234  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     port        DMPORT       (ushort)     <--- key, not stored
     vsm         DMSM         (ushort: 8)
 (a) privacy     DMBOOL       (enum: 1)
         User and Compacted Tuple Layout   PORT2VSM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              port             |*******************************|
    |---------------+---------------+---------------+---------------|
    |                | |                                            |
  4 |      vsm       |a|********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     vsm         DMSM         (ushort: 8)
 (a) privacy     DMBOOL       (enum: 1)
          Stored Tuple Layout     PORT2VSM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                | |                                            |
  0 |      vsm       |a|********************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLport2vsm

**Relation Description**
Maps analog port to VLR module number.

This relation was created for the WIRELESS Centrex (WCTX) feature. It maps the analog port to the Visitor Location Register (VLR) SM where the VLR data is stored.

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**Attribute: port**

**Fullname:** The local port name.

**Attribute Description** The local port name of the analog port.

**Attribute: vsm**

**Fullname:** The VLR switch module number.

**Attribute Description** This is the switching module number the VLR data will be mapped to.

**Attribute: privacy**

**Fullname:** The privacy indicator.

**Attribute Description** The privacy indicator.
The value DBNO indicates that the wired phone is allowed to bridge to the pcs handset.
The value DBYES indicates that the wired phone is NOT allowed to bridge to the pcs handset.

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# PORTDATA

## 1. Description

Circuit name and port index to port.

This is a virtual relation. The tree diagram Figure 1 depicts the stored structure of virtual relation PORTDATA.

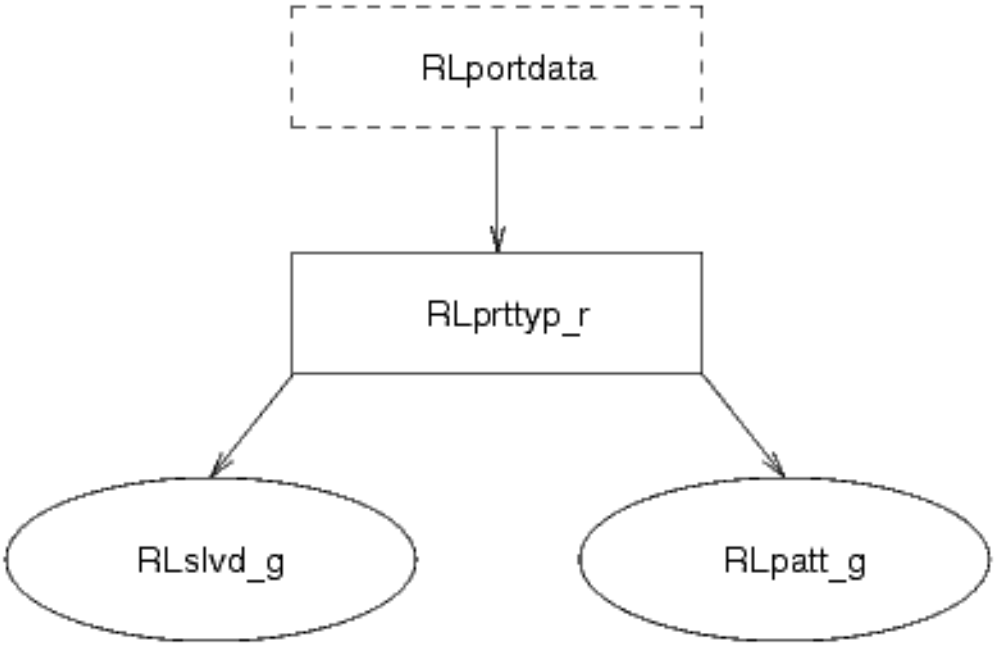


**Figure 1 Virtual Relation PORTDATA**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FP |
| relation type | DBNOUPDT |
| permutation type | perm |

## 3. Field Layout

```
PORTDATA    relid = 1824  DBNOUPDT   DBACC_OPV   DBNOTODD  FP      NULL
     cktname     DMCIRCUIT    (ushort)  <--- key
     port_indx   DMPORTINDX   (ushort)  <--- key
     port        DMPORT       (ushort)
 (a) ltsb_alwd   DMBOOL       (enum: 1)
 (b) porttype    DMPTYPE      (enum: 1)
 (c) sh_analog   DMBOOL       (enum: 1)
 (d) slcpbx      DMBOOL       (enum: 1)
 (e) testport    DMBOOL       (enum: 1)
 (f) prov        DMBOOL       (enum: 1)
 (g) hunt        DMBOOL       (enum: 1)
 (h) loaded      DMBOOL       (enum: 1)
 (i) lneqlock    DMBOOL       (enum: 1)
 (j) sleevind    DMBOOL       (enum: 1)
 (k) crftlock    DMBOOL       (enum: 1)
```

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```
(l) els_loss    DMBOOL       (enum: 1)
    sleevld     DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    compenloss  DMISLOSS     (short)
    servclass   DMSERVCLASS  (enum)
    lp_type     DMLPTYPE     (enum: 7)
(m) ffcf4       DMBOOL       (enum: 1)
    chanutype   DMCHANUTYP   (enum: 5)
(n) annc_apl    DMSVC_GRP    (enum: 3)
    spectrn     DMSPECTRN    (enum: 4)
(o) lneqclss    DMLNEQCLSS   (enum: 3)
(p) music_ind   DMBOOL       (enum: 1)
(q) balntwk     DMBALNTWK    (enum: 2)
(r) cadn        DMCADN       (enum: 2)
(s) rangex      DMRANGEX     (enum: 2)
(t) ffcf5       DMBOOL       (enum: 1)
(u) ffcf6       DMBOOL       (enum: 1)
(v) ffcf7       DMBOOL       (enum: 1)
(w) ffcf2       DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   PORTDATA
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            cktname            |           port_indx           |
   |---------------+---------------+---------------+---------------|
   |                               | | | | | | | | |       | | | | |
 4 |              port             |a|b|c|d|e|f|g|h|*******|i|j|k|l|
   |===============+=========== sleevld ===========+===============|
   |                               |               |               |
 8 |             member            |***************|     module    |
   |===============+===============+===============+===============|
   |                               |               |             | |
12 |           compenloss          |   servclass   |   lp_type   |m|
   |---------------+---------------+---------------+---------------|
   |         |     |       |     | |   |   |   | | | | |           |
16 |chanutype|  n  |spectrn|  o  |p| q | r | s |t|u|v|w|***********|
   |---------------+---------------+---------------+---------------|
      ( 20 bytes )
```

## 4. Population Rules for RLportdata

There are no population rules for this relation.

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# PORTIPAD

## 1. Description

This structure is used as static data when mapping an BRA port to its local address. This is used for routing purposes. Only OSPF and ICMP use this address.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| expected tuples | 8 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFP |
| relation type | DBSTATIC |
| application | TCPIP |

## 3. Field Layout

```
PORTIPAD    relid = 31    DBSTATIC   DBACC_HASH  DBPRAM    LPFP    TCPIP
     port        DMPORT       (ushort)    <--- key
     module      DMMODULE     (ushort: 8)    <--- key
 (a) appl_type   DMTPTYPE     (enum: 3)
     port_ipaddr  DMTCPADDR    (ulong)
         User, Compacted and Stored Tuple Layout   PORTIPAD
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |               |     |         |
  0 |              port               |     module    |  a  |*********|
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  4 |                          port_ipaddr                            |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLportipad

### Relation Description

```
BRI port to local address mapping
This relation is used when mapping an BRA port to its local address.
This is used for routing purposes.  Only OSPF and ICMP use this address.
```

**Attribute:**
port
**Fullname:**
Port number
**Attribute Description:**
The port of the DSL for the x.25 link.

**Attribute:**
module
**Fullname:**
Module number

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**Attribute Description:**
This attribute along with the port number
is used to identify a specific TCPIP port.

**Attribute:**
appl_type
**Fullname:**
Application type
**Attribute Description:**
Contains the application type, that is, TCPIP, OAP, etc..

**Attribute:**
port_ipaddr
**Fullname:**
Port IP address
**Attribute Description:**
Contains the IP address of this port. Used for routing.

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# POS_LPRT

## 1. Description

This relation contains the position to local B-channel port mapping.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | OAtposlprt |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
POS_LPRT    relid = 634   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     lbport      DMPORT       (ushort)
     posnum      DMPOSNUM     (ushort: 12)     <--- key
     pos_typ     DMOAPOSTP    (enum: 4)
     iserv_tm    DMUNS8       (ushort: 8)
     posdb_key   DMPOSDBKEY   (ushort: 8)
     ofc_num     DMUNS6       (ushort: 6)
 (a) cstfeat     DMDB_TRTYP   (ushort: 3)
 (b) mon_pos     DMBOOL       (enum: 1)
 (c) oaffb1      DMBOOL       (enum: 1)
 (d) oaffb2      DMBOOL       (enum: 1)
 (e) oaffb3      DMBOOL       (enum: 1)
 (f) oaffb4      DMBOOL       (enum: 1)
 (g) oaffb5      DMBOOL       (enum: 1)
 (h) oaffb6      DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   POS_LPRT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                       |       |
 0 |             lbport            |         posnum        |pos_typ|
   |---------------+---------------+---------------+---------------|
   |               |               |           |     | | | | | | | |
 4 |    iserv_tm   |   posdb_key   |  ofc_num  |  a  |b|c|d|e|f|g|h|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population Rules for RLpos_lprt

**Relation Description**
position to local B-channel port mapping

This relation should be consistent with the static AM relations RLpos_port and RLport_pos, and with the static PSM relation RLlprt_pos. Consistency means that the corresponding tuples in all 4 of these relations must exist and certain attributes must have the same values. RLpos_lprt data is in the PSMs only. Tuples are divided across

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PSMs based on the global port. There should be only one instance of any unique tuple across processors. This relation is not to be populated for export applications. It should be populated only in offices intended to serve OSPS. Local defines which must be used by code on the switch for cstfeat are defined in RLopdbparm.

**Attribute: posnum**

**Fullname:** position number

**Attribute Description** The position number.

**Attribute: iserv_tm**

**Fullname:** interflow serving team for interflow positions

**Attribute Description** If pos_typ is set to OA_INT, then iserv_tm must be in range (129-144) and a tuple must exist (with this key) in relation RList_parm. Else if pos_type is not set to OA_INT, then iserv_tm must be set to 0.

**Attribute: ofc_num**

**Fullname:** operator services center id

**Attribute Description** This equals RLpos_port.ofc_num.

**Attribute: lbport**

**Fullname:** B-channel local port to which this position is connected

**Attribute Description** Can only be changed when the port is out of service which is indicated by the bsc_state attribute in RLportla as keyed by port number.

**Attribute: mon_pos**

**Fullname:** monitor the position?

**Attribute Description** Indicates whether or not the operator is allowed to monitor calls.

**Attribute: posdb_key**

**Fullname:** key of RLposdb or RLtaposdb

**Attribute Description** is used as the key for RLposdb and RLtaposdb: must have a different value for every tuple in these relations.

**Attribute: pos_typ**

**Fullname:** position type

**Attribute Description** This attribute, an enum, signifies whether the position is a BST, VDT, or INTERFLOW position.

**Attribute: cstfeat**

**Fullname:** Combined Services Terminal feature

**Attribute Description** Vendor or feature being used as the basis of the software for the second port on the Combined Services Terminal.

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**Defines:** "db/DMport.h"

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# POS_NOPORT

## 1. Description

This relation contains the position to no port mapping.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 255 |
| expected tuples in relation | 50 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | ACDQ |
| relation type | DBSTATIC |
| ks key stored | AUTO |
| trigger function | ACtposnoprt |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| spare bits | 64 |

## 3. Field Layout

```
POS_NOPORT  relid = 3006  DBSTATIC   DBACC_HASH  DBPRAM    LP      ACDQ


     posnum      DMPOSNUM     (ushort: 12)      <--- key
     pos_typ     DMOAPOSTP    (enum: 4)
     ofc_num     DMOSC        (uchar: 6)
         User, Compacted and Stored Tuple Layout POS_NOPORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                         |       |           |                   |
  0 |          posnum         |pos_typ|  ofc_num  |*******************|
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  4 |*****************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  8 |*****************************************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population rules for RLpos_noport

**Relation Description**

```
        position to no port


        position to no port mapping.
```

**Attribute:**

```
        posnum
```

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**Fullname:**
position number
**Attribute Description:**
key-position number.

**Attribute:**
ofc_num
**Fullname:**
Operator Services Center id
**Attribute Description:**
Operator Services Center id. OSC number of position.

**Attribute:**
pos_typ
**Fullname:**
position type
**Attribute Description:**
Position type.

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# POS_PORT

## 1. Description

This relation contains the position to B-channel port mapping.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4095 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | ACDQ |
| relation type | DBSTATIC |
| ks key stored | AUTO |
| trigger function | ACtposprt |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
POS_PORT    relid = 641   DBSTATIC   DBACC_CIND  DBPRAM    LP      ACDQ


    posnum      DMPOSNUM     (ushort: 12)      <--- key
 (a) cstfeat     DMDB_TRTYP   (ushort: 3)
 (b) oaffb1      DMBOOL       (enum: 1)
    rel_pnum    DMPOSNUM     (ushort: 12)
    pos_typ     DMOAPOSTP    (enum: 4)
    oaffc1      DMUCHAR      (uchar)
    oaffc2      DMUCHAR      (uchar)
    iserv_tm    DMUNS8       (ushort: 8)
    ofc_num     DMUNS6       (ushort: 6)
 (c) oaffb2      DMBOOL       (enum: 1)
    gbport      DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
        User, Compacted and Stored Tuple Layout   POS_PORT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                       |     | |                       |       |
 0 |         posnum        |  a  |b|        rel_pnum       |pos_typ|
   |---------------+---------------+---------------+---------------|
   |               |               |               |           | | |
 4 |     oaffc1    |     oaffc2    |    iserv_tm   |  ofc_num  |c|*|
   |===============+===========  gbport ===========+===============|
   |                               |               |               |
 8 |             member            |***************|     module    |
   |===============+===============+===============+===============|
      ( 12 bytes )
```

## 4. Population rules for RLpos_port

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**Relation Description**

```
        position to port

        position to B-channel port mapping.


       "This relation is not to be populated for export applications.
        Populate only in offices intended to serve OSPS.
        The following are local #defines which must be used by code
        on the switch for cstfeat.
        #define OA_CSTNULL      0
        #define OA_IBMEM        3
        #define OA_VLTDEM       4
        ";
```

**Attribute:**
posnum
**Fullname:**
position number
**Attribute Description:**
key-position number.

**Attribute:**
iserv_tm
**Fullname:**
interflow serving team number
**Attribute Description:**
The interflow serving team number for interflow positions.

**Attribute:**
rel_pnum
**Fullname:**
Relative position number
**Attribute Description:**
Relative position number.

**Attribute:**
ofc_num
**Fullname:**
Operator Services Center id
**Attribute Description:**
Operator Services Center id.  OSC number of position.

**Attribute:**
pos_typ
**Fullname:**
position type
**Attribute Description:**

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Position type.

**Attribute:**
gbport
**Fullname:**
global port
**Attribute Description:**
The B-channel global port to which this position is assigned.

**Attribute:**
gbport.member
**Fullname:**
global port member
**Attribute Description:**
B-channel global port member.
For positions of type OA_BST and OA_VDT,
gbport.member must point to a B channel port.
For Positions of type OA_INT (INTERFLOW),
gbport.member value must point to an EDSL port.

**Attribute:**
gbport.module
**Fullname:**
global port module
**Attribute Description:**
B-channel global port module.

**Attribute:**
cstfeat
**Fullname:**
Combined Services Terminal feature
**Attribute Description:**
Vendor or feature being used as the basis of the software for the second port on the combined services terminal (CST).

**Defines:**
"db/DMport.h",
"db/DMportindx.h"

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# POSRELAB

## 1. Description

This static relation mapps relative position numbers in an OSC to absolute position numbers. This relation is used to map relative position IDs into the absolute IDs used by the OSPS software.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 4095 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | ACDQ |
| relation type | DBSTATIC |
| head table size | 512 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
POSRELAB    relid = 707   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    ACDQ
     rel_pnum    DMPOSNUM     (ushort: 12)     <--- key
     posnum      DMPOSNUM     (ushort: 12)
     ofc_num     DMUNS6       (ushort: 6)     <--- key
     gbport      DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout   POSRELAB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                         |       |                         |       |
  0 |         rel_pnum        |*******|          posnum         |*******|
    |---------------+---------------+---------------+---------------|
    |           |                                                     |
  4 |  ofc_num  |*****************************************************|
    |===============+===========  gbport ===========+===============|
    |                               |                 |               |
  8 |              member           |***************|     module    |
    |===============+===============+===============+===============|
       ( 12 bytes )
```

## 4. Population Rules for RLposrelab

**Relation Description**
Static relation mapping relative position numbers in an OSC to absolute position numbers. This relation is used to map relative position IDs into the absolute IDs used by the OSPS software.

**Attribute: ofc_num**

**Fullname:** Office Number

**Attribute Description** OSC ID number.

**Attribute: rel_pnum**

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**Fullname:** Relative position number

**Attribute Description** Relative position number.

**Attribute: posnum**

**Fullname:** Position number

**Attribute Description** Relative position number.

**Attribute: gbport**

**Fullname:** Global B-channel port

**Attribute Description** The B-channel global port assigned to this position.

**Attribute: gbport.member**

**Fullname:** Member

**Attribute Description** Member of the B-channel global port.

**Attribute: gbport.module**

**Fullname:** Module

**Attribute Description** Module for B-channel global port.

**Defines:**"db/DMport.h"

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# PP_CF

## 1. Description

Precedence and preemption constructed feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 50 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |

## 3. Field Layout

```
PP_CF       relid = 654   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     feat_id     DMMCC_FID    (ushort)  <--- key
     attdnt_di   DMDESTIDX    (ushort: 12)
     actvn       DMMC_ACTYP   (enum: 3)
     area1_di    DMDESTIDX    (ushort: 12)
 (a) pseudo_level  DMPP_PREC    (enum: 3)
 (b) crossover   DMBOOL       (enum: 1)
     area2_di    DMDESTIDX    (ushort: 12)
 (c) dctvn       DMMC_DCTYP   (enum: 2)
     area3_di    DMDESTIDX    (ushort: 12)
     area4_di    DMDESTIDX    (ushort: 12)
     area5_di    DMDESTIDX    (ushort: 12)
     satfwd_time  DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout  PP_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                       |     | |
  0 |            feat_id            |       attdnt_di       |actvn|*|
    |---------------+---------------+---------------+---------------|
    |                       |     | |                       |   |   |
  4 |        area1_di       |  a  |b|        area2_di       | c |***|
    |---------------+---------------+---------------+---------------|
    |                       |       |                       |       |
  8 |        area3_di       |*******|        area4_di       |*******|
    |---------------+---------------+---------------+---------------|
    |                       |       |               |               |
 12 |        area5_di       |*******|  satfwd_time  |***************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLpp_cf

**Relation Description**

The following is a list of valid service classes for LTports assigned this feature:

```
LINES          TRUNKS
```

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```
-------------  -------------
FC_INDVDL      FC_PDID
FC_PBX         FC_LTOLL_CONN
FC_ATTENDANT   FC_TTOLL_CONN
FC_4WIRE_INDV  FC_PRI_INTOLL
               FC_PFLASH
               FC_PF
               FC_PFITT
FC_ISDN
FC_ISATND
```

**Attribute: feat_id**

**Fullname:** Precedence and preemption constructed feature ID

**Attribute Description** Verify that RLfacname has a tuple such that feat_id = RLfacname.facid, and RLfacname.class = FACBRCS for that tuple.

**Attribute: actvn**

**Fullname:** type of activation

**Attribute Description** Indicates method of activating MFC features. Range of values: must always be ACTNONE.

**Attribute: dctvn**

**Fullname:** feature deactivation for precedence and preemption

**Attribute Description** Indicates method of deactivating MFC feature. Range of values: must always be DCTNONE.

**Attribute: pseudo_level**

**Fullname:** precedence level for non-autovon calls to or from this port

**Attribute Description** Indicates the precedence level of calls involving a non-AUTOVON LTport. This value is assigned by the customer.

**Attribute: satfwd_time**

**Fullname:** number of seconds before forward from satellite-PID

**Attribute Description** Indicates the number of seconds before a precedence call on a trunk from the end office to a satellite PBX, is forwarded to an attendant. Range of values: 0 - 60 seconds.

**Attribute: attdnt_di**

**Fullname:** attendant destination index for satellite forwarding

**Attribute Description** Indicates the destination index for calls forwarded from a satellite trunk to an attendant. Dependencies: Verify the existence of a tuple in RLrtppscrn with the destination index (di) equal to attdnt_di and with rtype == RTE_ATDN.

**Attribute: area[*]_di**

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**Fullname:** destination index for area N (where N equals 1 through 5)

**Attribute Description** Indicates the destination index for calls made to calling area N. Dependencies: If non-zero, verify the existence of a tuple in RLrtppscrn with the destination index (di) equal to areaN_di.

**Attribute: crossover**

**Fullname:** crossover traffic

**Attribute Description** Indicates whether LTports without AUTOVON/DSN network privileges can be connected, without the attendant's assistance, to AUTOVON/DSN trunks. Dependencies: If the global office parameter Gldsnopt is set to DBYES, then crossover must also be set to DBYES.

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# PP_LTM

## 1. Description

Precedence and preemption feature parameters on this line.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected tuples in relation | 143 |
| density | 4 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store option | AUTO |
| trigger function | PCimpptrg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
PP_LTM      relid = 915   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP
     lead_module  DMMODULE     (ushort: 8)  <--- key, not stored
 (a) ltm_type     DMLTM_TYPE   (enum: 1)  <--- key, not stored
     ltm_idx      DMLTM_IDX    (ulong: 16)  <--- key, not stored
     coi_gpid     DMCOI_GPID   (ushort: 5)
 (b) prec_noncoi  DMPP_PREC    (enum: 3)
 (c) prec_coi     DMPP_PREC    (enum: 3)
 (d) hotline      DMPP_HOTLN   (enum: 3)
 (e) preemptable  DMBOOL       (enum: 1)
 (f) impreempt    DMBOOL       (enum: 1)
 (g) prec_pkup    DMBOOL       (enum: 1)
 (h) forwd_prec   DMBOOL       (enum: 1)
 (i) avn_rec      DMBOOL       (enum: 1)
 (j) dir_stn      DMBOOL       (enum: 1)
 (k) avn_orig     DMBOOL       (enum: 1)
        User and Compacted Tuple Layout     PP_LTM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               | |                                 |             |
  0 |  lead_module  |a|            ltm_idx              |*************|
    |---------------+---------------+---------------+---------------|
    |         |     |     |     | | | | | | | |                       |
  4 | coi_gpid|  b  |  c  |  d  |e|f|g|h|i|j|k|***********************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     coi_gpid    DMCOI_GPID   (ushort: 5)
 (a) prec_noncoi  DMPP_PREC    (enum: 3)
 (b) prec_coi     DMPP_PREC    (enum: 3)
 (c) hotline      DMPP_HOTLN   (enum: 3)
 (d) preemptable  DMBOOL       (enum: 1)
 (e) impreempt    DMBOOL       (enum: 1)
```

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```
(f) prec_pkup   DMBOOL       (enum: 1)
(g) forwd_prec  DMBOOL       (enum: 1)
(h) avn_rec     DMBOOL       (enum: 1)
(i) dir_stn     DMBOOL       (enum: 1)
(j) avn_orig    DMBOOL       (enum: 1)
          Stored Tuple Layout   PP_LTM
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |         |     |     |     | | | | | | | |                     |
 0 | coi_gpid|  a  |  b  |  c  |d|e|f|g|h|i|j|*********************|
   |---------------+---------------+---------------+---------------|
      ( 4 bytes )
```

## 4. Population Rules for RLpp_ltm

**Relation Description**
Precedence and preemption logical termination. Precedence and preemption feature parameters on this line.
SPECIAL ENTRY FOR GROUP PARAMETER ASSOCIATED WITH BFG
---
BRCS feature grouping (BFG), capability G268, is intended to improve recent change response time and provide for SM memory reduction. It permits the creation of groups of BRCS features and parameters, and the utilization of these groups by call processing. BFG group parameter relations will not be created. This relation now has two types of tuples.

(1) The first type is the tuples existing prior to BFG which remain unchanged.

(2) The second type is the BFG group parameter TUPLE associated with PP feature in a BRCS feature group (BFG).

For BFG purposes, RLpp_ltm is a Group type. Therefore, only BFG Pseudo port tuple is permitted for the port assigned to a BFG. Individual post tuples may not be created for BFG assigned ports (when the feature is in the BFG). As new BRCS features are added to *5ESS*®-2000 switch a plan to add to the current list of BFG-able features will be evaluated. ISDN BRCS is included in BFG. NOTE: There is a limit of 30 BRCS features for each bfgid. The following is a list of valid service classes for ports assigned this feature:
FC_INDVDL
FC_PBX
FC_ATTENDANT
FC_4WIRE_INDV
FC_ISDN
FC_ISATND
NOTE: The PRL check corresponds to the valid set of service classes is within the check section for the attribute ltm_idx. Since different servclasses are allowed only for certain dependencies, refer to attribute ltm_idx usage section.

**Attribute: lead_module**

**Fullname:** Lead module.

**Attribute Description** lead module NOTE: When lead_module = zero then ltm_type = must equal LTM_ISDN (for BFG case) else lead_module range is 1-192.
NOTE: The lead_module cannot equal an SM number that has the SM Global Parameter, Glconfigname, set to D_BASIC. Default: none

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**Attribute: ltm_type**

**Fullname:** Logical Termination type.

**Attribute Description** Logical termination index type

**Attribute: ltm_idx**

**Fullname:** Logical termination Index.

**Attribute Description** Logical termination index Note: Attribute ltm_idx has a domain range of 0-8191. The range in this relation specifies 1-8191. As discussed in RLrc_qidx, the existence of an index implies the value 1 or greater. If no index is defined, RLrc_qidx(ltm_typ) would contain an index value of 0 and NO TUPLE WOULD EXIST IN THIS RELATION. Therefore, ltm_idx must be greater than 0 in this relation. Range: 1-8191 EXCEPT IF lead_module = zero If lead_module is zero, then range is 256-8191. NOTE 1: When a RLpp_ltm tuple exists with lead_module = zero, there exists a tuple or tuples in RLltm_bfg with this key:

```
ltm_bfg.module   = 1-192
ltm_bfg.type_ltm = LTM_ISDN or LTM_OTHER
ltm_bfg.ltm_idx  = any valid assigned ltm index
ltm_bfg.bfgid    = pp_ltm.ltm_idx
```

The set of tuples in RLltm_bfg is link listed and represents all DNs on all SMs which are associated with the single tuple in RLpp_ltm. NOTE 2: The following dependencies apply ONLY to ltm_type equal to LTM_ISDN or LTM_OTHER, when lead_module is NOT equal to zero.

(1)

```
Verify existence of a tuple in RLfc_line
such that RLfc_line.party == FCP_INDI
where the port in RLfc_line is
RLltm_port(ltm_idx).port
if RLpp_ltm.ltm_type == LTM_OTHER,
or
RLis_line(ltm_idx, lead_module).lead_port
if RLpp_ltm.ltm_type == LTM_ISDN.
```

(2)

```
 For unshared analog,
RLpp_ltm.ltm_type == LTM_OTHER and
RLfc_porttyp.servclass is:
FC_INDVDL, FC_PBX, FC_ATTENDANT,
or FC_4WIRE_INDV,
with RLfc_porttyp.sh_analog == DBNO,
where the key to RLfc_porttyp is:
RLltm_port(ltm_idx).port
For primary ISDN or shared analog,
RLpp_ltm.ltm_type == LTM_ISDN,
RLis_line(lead_module,ltm_idx).primary == DBYES
and RLfc_porttyp.servclass is:
FC_ISDN or FC_ISATND,
with RLfc_porttyp.sh_analog == DBYES,
where the key to RLfc_porttyp is:
RLis_line(ltm_idx, lead_module).lead_port
For secondary-only ISDN,
RLpp_ltm.ltm_type == LTM_ISDN,
RLis_line(lead_module,ltm_idx).primary == DBNO
```

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```
and no tuple exists in RLfc_porttyp
but the servclass is FC_ISDN.
```

**Attribute: prec_noncoi**

**Fullname:** Precedence non community of interest (COI).

**Attribute Description** Indicates the highest authorized precedence level of a call originating on this line to a non-COI destination. For hotline calls, this precedence level is used provided a precedence level is not stored as part of attribute dn in relation RLfc_dircon.

**Attribute: prec_coi**

**Fullname:** Precedence of community of interest (COI).

**Attribute Description** Indicates the highest authorized precedence of a call originating on this line to an ltm_idx in the same Community Of Interest group. If set to PP_NONE then coi_gpid = 0.

**Attribute: coi_gpid**

**Fullname:** Community of interest group id.

**Attribute Description** Indicates the Community Of Interest group id.

```
If set to 0 then
prec_coi = PP_NONE.  If > 0 then
prec_coi != PP_NONE.
```

**Attribute: preemptable**

**Fullname:** Preemtable.

**Attribute Description** Indicates whether this line can be preempted or not.

```
Verify the following for lines in a
MLHG with a hnttype of RTH_PPSMHG or RTH_PPLMHG:
For the tuple in RLpggpmap where the port is:
if RLpp_ltm.ltm_type == LTM_OTHER
use RLltm_port(ltm_idx).port
or
if RLpp_ltm.ltm_type == LTM_ISDN,
use RLis_line(ltm_idx, lead_module).lead_lport
to read RLlpt_pt(lead_lport,lpt_type=LPT_ISDN)
to get the port.
if there exists a tuple in RLrt_mhg such that:
key RLrt_mhg.grpnum == RLpggpmap.portgrp.grpnum,
Then the following must be true:
If RLpggpmap.member >= RLrt_mhg.first_preempt,
then RLpp_ltm.preemptable must be set to DBYES.
Otherwise,
if RLpggpmap.member < RLrt_mhg.first_preempt,
then RLpp_ltm.preemptable must be set to DBNO.
```

**Attribute: impreempt**

**Fullname:** Immediate preemption

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**Attribute Description** Indicates whether immediate preemption is turned on or off on this ltm_idx.
attribute must be set to DBNO.

**Attribute: prec_pkup**

**Fullname:** Precedence pick up.

**Attribute Description** Indicates whether precedence calls to this ltm_idx can be picked up using the Call Pickup terminating feature. If set to DBYES, then verify existence of a tuple in RLpu_ltm such that:
key RLpu_ltm.ltm_idx == ltm_idx
key RLpu_ltm.ltm_type == ltm_type
key RLpu_ltm.lead_module == lead_module
for any RLpu_ltm.feat_id since all tuples are for pickup terminating.

**Attribute: forwd_prec**

**Fullname:** Forwarding precedence.

**Attribute Description** Indicates whether the forward intragroup precedence option is on or off. If set to DBYES then verify that a PP call forwarding feature has been assigned to this ltm_idx. This can be done by finding the tuple in relation RLdn_feats with the same keys as RLpp_ltm plus any RLdn_feats.range. For this tuple, there must be at least one entry in the ftent array such that:
ftent[i].selcrit is equal to CF_PPBUSY or
ftent[i].selcrit is equal to CF_PPIDLE.

**Attribute: avn_rec**

**Fullname:** AUTOVON receiver.

**Attribute Description** Indicates whether this ltm_idx can receive calls from the AUTOVON network. If the global office parameter Gldsnopt is set to DBYES, then both avn_rec and avn_orig can not be DBNO.

**Attribute: dir_stn**

**Fullname:** Direct station.

**Attribute Description** Indicates whether this ltm_idx has been assigned the direct station select feature. If set to DBYES, then a one-digit speed calling list must exist for this line.
If dir_stn == DBYES, then verify a SC feature where
RLlpt_pt((RLsc_port.lport,lpt_type).port.member == RLltm_port(ltm_idx).port on
RLpp_ltm.lead_module such that
RLsc_port.sc_list_id is greater than 0 and
RLsc_port.sc is equal to SC1_DIG.

**Attribute: avn_orig**

**Fullname:** AUTOVON originating.

**Attribute Description** Indicates whether calls to the AUTOVON network can be made from this line. If the global office parameter Gldsnopt is set to DBYES, then both avn_rec and avn_orig can not be DBNO.

**Attribute: hotline**

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**Fullname:** Hot line.

**Attribute Description** This attribute indicates whether this port is a hotline or not.

```
If set to MSTR_VOICE, MSTR_DATA,
SLV_VOICE, SLV_DATA, NOT_MS_VOICE, or NOT_MS_DATA,
then
if lead_module !=0
then
     ltm_type == LTM_OTHER,
     RLfc_line.nodial == FCND_DIRCON,
     RLfc_porttyp.servclass == FC_4WIRE_INDV or FC_INDVDL and
     RLfc_porttyp.hunt == DBNO.
else
     ltm_type == LTM_ISDN,
     if RLfc_line.bfgid == RLpp_ltm.ltm_idx
     then
          RLfc_porttyp.servclass == FC_4WIRE_INDV or
                                    FC_INDVDL and
          RLfc_porttyp.hunt == DBNO.
```

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# PP_MEM

## 1. Description

This relation maps a Packet Pipe (PP) trunk port to its subtending PP member trunk ports.

This is a virtual update relation. The tree diagram Figure 1 depicts the stored structure of virtual relation PP_MEM.

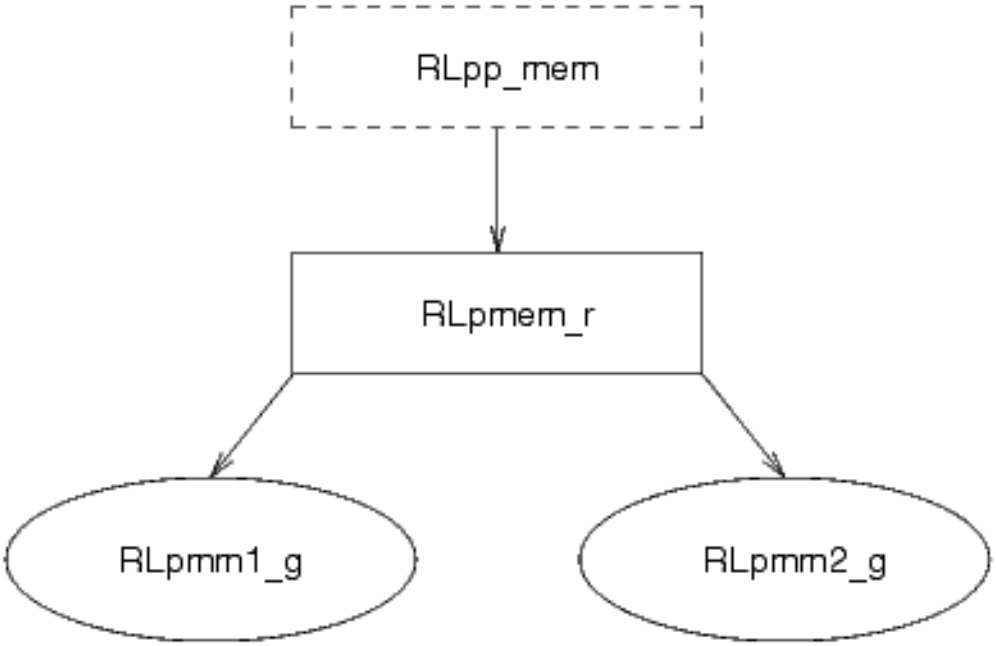


**Figure 1 Virtual Relation PP_MEM**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FG |
| trigger function | TMpp_mem |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
PP_MEM      relid = 2151  DBSTATIC   DBACC_OPV   DBNOTODD  FG      NULL
     gport        DMGPORT      (struct) <--- key
         member       DMPORT       (ushort)
         module       DMMODULE     (ushort: 8)
     pptgnum      DMGRUPNM     (ushort: 13)
     pptgmember   DMMEMBER     (ushort)
     num_mem      DMUNS5       (ushort: 5)
     memmod       DMMODULE     (ushort: 8)
     farpsu_ca    DMPSUCA      (uchar)
     mport0       DMPORT       (ushort)
     mport1       DMPORT       (ushort)
     mport2       DMPORT       (ushort)
```

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```
    mport3      DMPORT       (ushort)
    mport4      DMPORT       (ushort)
    mport5      DMPORT       (ushort)
    mport6      DMPORT       (ushort)
    mport7      DMPORT       (ushort)
    mport8      DMPORT       (ushort)
    mport9      DMPORT       (ushort)
    mport10     DMPORT       (ushort)
    mport11     DMPORT       (ushort)
    mport12     DMPORT       (ushort)
    mport13     DMPORT       (ushort)
    mport14     DMPORT       (ushort)
    mport15     DMPORT       (ushort)
    mport16     DMPORT       (ushort)
    mport17     DMPORT       (ushort)
    mport18     DMPORT       (ushort)
    mport19     DMPORT       (ushort)
    mport20     DMPORT       (ushort)
    mport21     DMPORT       (ushort)
    mport22     DMPORT       (ushort)
    mport23     DMPORT       (ushort)
        User, Compacted and Stored Tuple Layout PP_MEM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+============ gport ============+===============|
   |                               |                |               |
 0 |             member            |****************|     module    |
   |===============+===============+================+===============|
   |                           |   |                                |
 4 |         pptgnum           |***|            pptgmember          |
   |---------------+---------------+---------------+---------------|
   |         |                 |   |                |               |
 8 | num_mem |     memmod      |***|   farpsu_ca    |***************|
   |---------------+---------------+---------------+---------------|
   |                               |                                |
12 |             mport0            |             mport1             |
   |---------------+---------------+---------------+---------------|
   |                               |                                |
16 |             mport2            |             mport3             |
   |---------------+---------------+---------------+---------------|
   |                               |                                |
20 |             mport4            |             mport5             |
   |---------------+---------------+---------------+---------------|
   |                               |                                |
24 |             mport6            |             mport7             |
   |---------------+---------------+---------------+---------------|
   |                               |                                |
28 |             mport8            |             mport9             |
   |---------------+---------------+---------------+---------------|
   |                               |                                |
32 |            mport10            |            mport11             |
   |---------------+---------------+---------------+---------------|
   |                               |                                |
36 |            mport12            |            mport13             |
```

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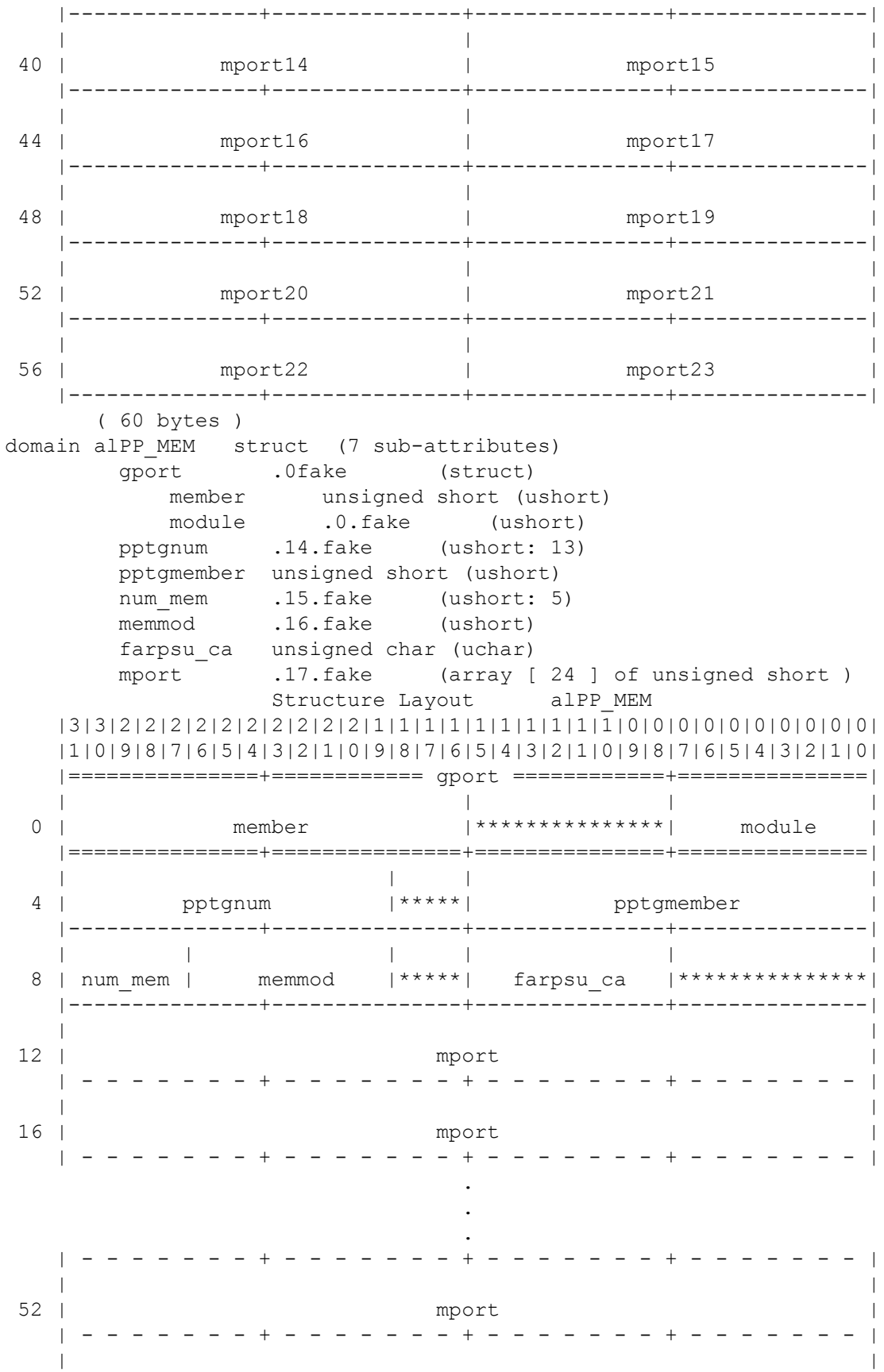
mport14
mport15
mport16
mport17
mport18
mport19
mport20
mport21
mport22
mport23
( 60 bytes )
domain alPP_MEM struct (7 sub-attributes)
gport .0fake (struct)
member unsigned short (ushort)
module .0.fake (ushort)
pptgnum .14.fake (ushort: 13)
pptgmember unsigned short (ushort)
num_mem .15.fake (ushort: 5)
memmod .16.fake (ushort)
farpsu_ca unsigned char (uchar)
mport .17.fake (array [ 24 ] of unsigned short )
Structure Layout alPP_MEM
gport
member
module
pptgnum
pptgmember
num_mem
memmod
farpsu_ca
mport
mport
mport

```
 56 |                              mport                                |
    |---------------+---------------+---------------+---------------|
       ( 60 bytes )
```

## 4. Population rules for RLpp_mem

### Relation Description

This relation maps the PP or FRBC to its members.
This relation maps a PP (Packet Pipe) trunk
port to its subtending PP member trunk ports.
This relation also maps a FRBC (Frame Relay
Bearer Channel) to its subtending BCM trunks ports.

**Attribute:**
gport
**Fullname:**
Global port number of the PP or FRBC trunk port (key)
**Attribute Description:**
This attribute has the global port number for the PP or FRBC trunk port

**Attribute:**
pptgnum
**Fullname:**
Trunk group number of the PP or FRBC trunk port
**Attribute Description:**
This attribute has the trunk group number of the PP or FRBC trunk port

**Attribute:**
pptgmember
**Fullname:**
Trunk group member number of the pipe trunk port
**Attribute Description:**
This attribute has the trunk group member number of the pipe trunk port

**Attribute:**
num_mem
**Fullname:**
Number of members associated with this pipe.
**Attribute Description:**
This attribute gives the number of the members
associated with a given pipe.

**Attribute:**
memmod
**Fullname:**
Module number on which the Members are defined
**Attribute Description:**
This attribute identifies the module number where

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the members reside. All the members have to be on the same DFI or DNU_S facility.

**Attribute:**
mport[*]
**Fullname:**
Port name for each member.
**Attribute Description:**
This attribute gives the port name for each member.

**Attribute:**
farpsu_ca
**Fullname:**
Far packet switching unit community address number
**Attribute Description:**
This attribute indicates the far packet switching community number. This attribute is only used when the packet pipe is being used as an inter-SM nailup between two SM for the purpose of a soft hand-off.

**Defines:**
"db/DMport.h",
"db/DMcircuit.h",
"db/DMunitno.h"

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# PP_OPTS

## 1. Description

This relation contains the precedence and preemption feature definition and defaults.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 50 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| ks key store | DBNO |

## 3. Field Layout

```
PP_OPTS     relid = 656   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     feat_id     DMMCC_FID    (ushort) <--- key, not stored
     attdnt_di   DMDESTIDX    (ushort: 12)
 (a) pseudo_level  DMPP_PREC    (enum: 3)
 (b) forwd_prec  DMBOOL       (enum: 1)
     area1_di    DMDESTIDX    (ushort: 12)
 (c) prec_noncoi  DMPP_PREC    (enum: 3)
 (d) crossover   DMBOOL       (enum: 1)
     area2_di    DMDESTIDX    (ushort: 12)
 (e) prec_coi    DMPP_PREC    (enum: 3)
 (f) preemptable  DMBOOL       (enum: 1)
     area3_di    DMDESTIDX    (ushort: 12)
 (g) hotline     DMPP_HOTLN   (enum: 3)
 (h) impreempt   DMBOOL       (enum: 1)
     area4_di    DMDESTIDX    (ushort: 12)
 (i) prec_limit  DMPP_PREC    (enum: 3)
 (j) prec_pkup   DMBOOL       (enum: 1)
     area5_di    DMDESTIDX    (ushort: 12)
 (k) dctvn       DMMC_DCTYP   (enum: 2)
 (l) avn_rec     DMBOOL       (enum: 1)
 (m) dir_stn     DMBOOL       (enum: 1)
     satfwd_time  DMUNS8       (ushort: 8)
     trk_type    DMPP_TRKS    (enum: 5)
     actvn       DMMC_ACTYP   (enum: 3)
 (n) priority_ring  DMRNGPAT     (enum: 5)
     coi_gpid    DMCOI_GPID   (ushort: 5)
 (o) avn_orig    DMBOOL       (enum: 1)
 (p) esp         DMBOOL       (enum: 1)
 (q) dsn103      DMBOOL       (enum: 1)
         User and Compacted Tuple Layout    PP_OPTS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             feat_id           |*******************************|
```

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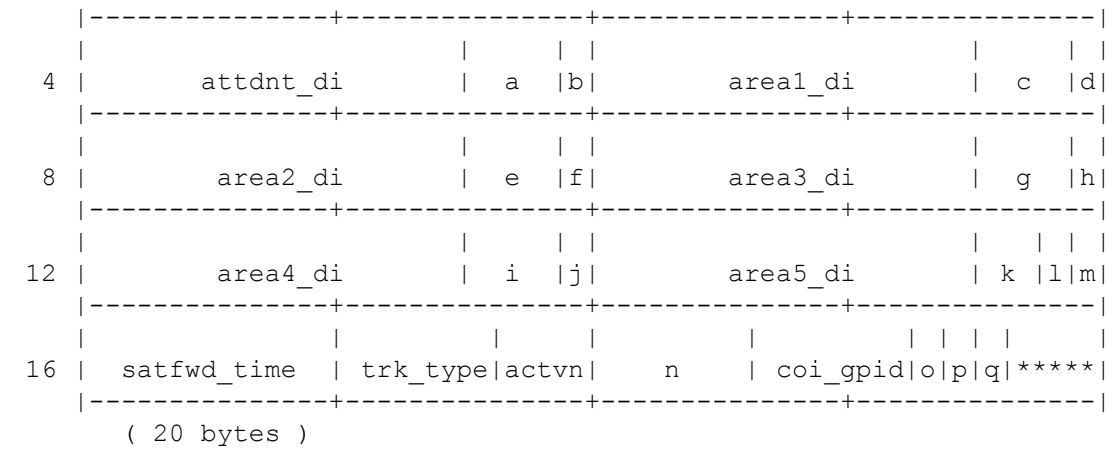
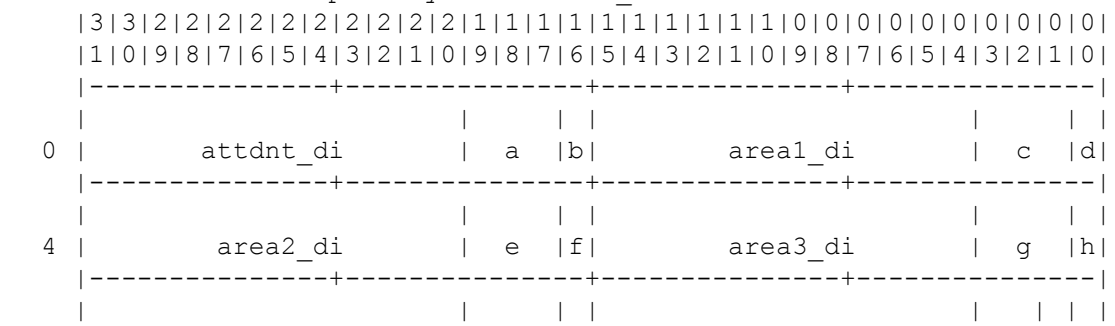



```
    attdnt_di   DMDESTIDX    (ushort: 12)
(a) pseudo_level  DMPP_PREC    (enum: 3)
(b) forwd_prec  DMBOOL       (enum: 1)
    area1_di    DMDESTIDX    (ushort: 12)
(c) prec_noncoi  DMPP_PREC    (enum: 3)
(d) crossover   DMBOOL       (enum: 1)
    area2_di    DMDESTIDX    (ushort: 12)
(e) prec_coi    DMPP_PREC    (enum: 3)
(f) preemptable  DMBOOL       (enum: 1)
    area3_di    DMDESTIDX    (ushort: 12)
(g) hotline     DMPP_HOTLN   (enum: 3)
(h) impreempt   DMBOOL       (enum: 1)
    area4_di    DMDESTIDX    (ushort: 12)
(i) prec_limit  DMPP_PREC    (enum: 3)
(j) prec_pkup   DMBOOL       (enum: 1)
    area5_di    DMDESTIDX    (ushort: 12)
(k) dctvn       DMMC_DCTYP   (enum: 2)
(l) avn_rec     DMBOOL       (enum: 1)
(m) dir_stn     DMBOOL       (enum: 1)
    satfwd_time  DMUNS8       (ushort: 8)
    trk_type    DMPP_TRKS    (enum: 5)
    actvn       DMMC_ACTYP   (enum: 3)
(n) priority_ring  DMRNGPAT     (enum: 5)
    coi_gpid    DMCOI_GPID   (ushort: 5)
(o) avn_orig    DMBOOL       (enum: 1)
(p) esp         DMBOOL       (enum: 1)
(q) dsn103      DMBOOL       (enum: 1)
```

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```
  8 |        area4_di       |  i  |j|        area5_di       | k |l|m|
    |---------------+---------------+---------------+---------------|
    |               |         |     |         |         | | | |     |
 12 |  satfwd_time  | trk_type|actvn|    n    | coi_gpid|o|p|q|*****|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population rules for RLpp_opts

### Relation Description

```
Precedence and Preemption options.
 Precedence and Preemption features and definition.
General Population Rules:
The following diagram indicates which attributes are
associated with;
        feature definition (RLpp_cf),
        lines  (RLpp_ltm), and
        trunks (RLpp_trunk).
```

| Attribute | Feature | Lines | Trunks |
|---|---|---|---|
| feat_id | X | X | X |
| actvn | X | | |
| dctvn | X | | |
| pseudo_level | X | | |
| satfwd_time | X | | |
| attdnt_di | X | | |
| area1_di | X | | |
| area2_di | X | | |
| area3_di | X | | |
| area4_di | X | | |
| area5_di | X | | |
| crossover | X | | |
| prec_noncoi | | X | |
| preemptable | | X | |
| impreempt | | X | |
| prec_pkup | | X | |
| forwd_prec | | X | |
| avn_rec | | X | |
| dir_stn | | X | |
| avn_orig | | X | |
| prec_coi | | X | |
| coi_gpid | | X | |
| hotline | | X | |
| trk_type | | | X |
| prec_limit | | | X |
| esp | | | X |
| priority_ring | | | X |
| dsn103 | | | X |

```
-------------------------------------------------------------
PRE CONSTRUCTED FEATURES
NAME:  /PP*
DESCRIPTION:  Precedence and Preemption Wild Card Feature
Attribute       Value
```

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```
---------       -----
feat_id         /PP*
actvn           ACTNONE
dctvn           DCTNONE
pseudo_level    R
satfwd_time     0
attdnt_di       0
area1_di        0
area2_di        0
area3_di        0
area4_di        0
area5_di        0
crossover       DBNO
prec_noncoi     PP_ROUTINE
preemptable     DBYES
impreempt       DBYES
prec_pkup       DBNO
forwd_prec      DBNO
avn_rec         DBYES
dir_stn         DBNO
avn_orig        DBNO
trk_type        PP_NULL
prec_limit      PP_NONE
coi_gpid        0
prec_coi        PP_NONE
hotline         NOT_HL
esp             DBNO
priority_ring   LPSTD
dsn103          DBYES
```

**Attribute:**
feat_id
**Fullname:**
feature id.
**Attribute Description:**
Indicates the Precedence and Preemption (PP) constructed feature id.

**Attribute:**
actvn
**Fullname:**
activating.
**Attribute Description:**
Indicate method of activating MFC features.

**Attribute:**
dctvn
**Fullname:**
deactivation.
**Attribute Description:**
Indicate method of deactivating MFC feature.

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**Attribute:**
pseudo_level
**Fullname:**
peusdo level.
**Attribute Description:**
Indicates the precedence level of calls involving a non Autovon port. This value is assigned by the customer.

**Attribute:**
satfwd_time
**Fullname:**
satellite forward time.
**Attribute Description:**
Indicates the number of seconds before a precedence call on a trunk from the end office to a satellite PBX, is forwarded to an attendant.

**Attribute:**
attdnt_di
**Fullname:**
attendant destination.
**Attribute Description:**
Indicates the destination index for calls forwarded from a satellite trunk to an attendant.

**Attribute:**
area1_di
**Fullname:**
area1 destination.
**Attribute Description:**
Indicates the destination index for calls made to calling area1.

**Attribute:**
area2_di
**Fullname:**
area2 destination.
**Attribute Description:**
Indicates the destination index for calls made to calling area2.

**Attribute:**
area3_di
**Fullname:**
area3 destination.
**Attribute Description:**
Indicates the destination index for calls made to calling area3.

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**Attribute:**
area4_di
**Fullname:**
area4 destination.
**Attribute Description:**
Indicates the destination index for calls made to calling area4.

**Attribute:**
area5_di
**Fullname:**
area5 destination.
**Attribute Description:**
Indicates the destination index for calls made to calling area5.

**Attribute:**
crossover
**Fullname:**
crossover indicator.
**Attribute Description:**
Indicates whether ports without AUTOVON/DSN Network privileges can be connected, without the attendant's assistance, to AUTOVON/DSN trunks.

**Attribute:**
prec_noncoi
**Fullname:**
Precedence level of calls to NON Community Of Interest (COI) users.
**Attribute Description:**
Indicates the HIGHEST authorized precedence level of a call originating on a line to a non_coi destination. For hotline calls, this precedence level is used if precedence level is not stored as part of attribute dn in relation RLfc_dircon.

**Attribute:**
coi_gpid
**Fullname:**
Community Of Interest (COI) group id.
**Attribute Description:**
Indicates the Community Of Interest group id.

**Attribute:**
prec_coi
**Fullname:**
Precedence level of calls to Community Of Interest (COI) users.
**Attribute Description:**
Indicates the HIGHEST authorized precedence of a call originating on this line to a port in the same community of interest group.

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**Attribute:**
preemptable
**Fullname:**
Preemtable boolean.
**Attribute Description:**
Indicates whether a line can be preempted or not.

**Attribute:**
impreempt
**Fullname:**
Immediate Preemption boolean.
**Attribute Description:**
Indicates whether immediate preemption is turned on or off for a specific port.

**Attribute:**
prec_pkup
**Fullname:**
Call Pickup Precedence.
**Attribute Description:**
Indicates whether precedence calls to a port can be picked up using the call pickup feature.

**Attribute:**
forwd_prec
**Fullname:**
Forward Intragroup Precedence Calls.
**Attribute Description:**
Indicates whether the forward intragroup precedence option is on or off.

**Attribute:**
avn_rec
**Fullname:**
Autovon receive.
**Attribute Description:**
Indicates whether a port can receive calls from the AUTOVON Network.

**Attribute:**
dir_stn
**Fullname:**
Direct Station Select (DSS).
**Attribute Description:**
Indicates whether a port has been assigned the direct station select feature.

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**Attribute:**
avn_orig
**Fullname:**
Autovon originator.
**Attribute Description:**
Indicates whether calls to the AUTOVON Network can be made from a line.

**Attribute:**
trk_type
**Fullname:**
satellite trunk type.
**Attribute Description:**
Indicates the type of trunk. The trunk can either be between the end office and a satellite PBX, or it can connect the end office to an AUTOVON tandem switch. For a NODAL or Multi-Function DSN switch, trunks can be between the Nodal/MF switch and

1) EO switch
2) AI switch
3) Non AUTOVON/DSN switch
4) another Nodal/MF switch
5) Satellite PBX

In addition, the trunk can be assigned the following features:

| | | |
|---|---|---|
| Precedence | Network In-Dialing | (PNID) |
| Immediate | Network In-Dialing | (INID) |
| Routine | Network In-Dialing | (RNID) |
| Priority | In-Dialing | (PID) |

Range of values: The following enumeration types:
SAT_INID, SAT_PID, TAN_RNID, TAN_PNID,
EOAI_PNID, EOAI_RNID, EOAI_INID, OFFNET,
IST_RCD, IST_NONRCD, TIE_RNID, TIE_PNID
MLPPDQO, MLPPDQI, MLPPPQ and MLPPCQ.
Default: None.

The following dependencies exist in the relation rlPP_TRUNK and are stated here only for completeness sake.
1)The following dependency cannot be enforced by recent change.
Dependency: A PP trunk group is a trunk group that has a hunt type equal to one of the following:

RTH_PRFLIN, RTH_PRBLIN, RTH_PLFLIN,
RTH_PLBLIN, RTH_PRFIFO, or RTH_PLFIFO.
An MLPP trunk group has a servclass of FCEDSL and has a hunt type equal to one of the following:
RTH_PRFLIN, RTH_PRBLIN, RTH_PLFLIN or RTH_PLBLIN.
For a given PP trunk group, all trunk group members must be assigned a PP feature and must have the same trk_type. Therefore when setting

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trk_type the following steps should be taken.

a) Identify the trunk group number associated with this tuple in rlPP_TRUNK by finding the tuple in rlPGGPMAP such that:
key rlPGGPMAP.port == port.
Then rlPGGPMAP.portgrp.grpnum contains the trunk group number.
b) The information about each member in this trunk group can be found in rlGROUP_PORT such that:

```
key rlGROUP_PORT.portgrp.grpnum  == rlPGGPMAP.portgrp.grpnum
key rlGROUP_PORT.portgrp.grptype == rlPGGPMAP.portgrp.grptype
key rlGROUP_PORT.member          == a given member number.
```

c) If this port in rlPP_TRUNK is the only member in this trunk group then trk_type can be set to any of the valid enumeration types.
d) Otherwise, if another member exists in rlGROUP_PORT then verify that this member has been assigned a PP feature by identifying the tuple in rlPP_TRUNK such that:
key rlPP_TRUNK.port == rlGROUP_PORT.port.
Then set trk_type == rlPP_TRUNK.trk_type.
This will insure that all subsequent members added to this trunk group will have the same trk_type.

2) If trk_type is set to SAT_INID or SAT_PID then the hunt type of the trunk group that this trunk belongs to must NOT be one of the following: RTH_PRFLIN, RTH_PRBLIN, RTH_PLFLIN, RTH_PLBLIN, RTH_PRFIFO, or RTH_PLFIFO. (For verification rules see poprules for the attribute, port.)
3) The table below lists the required values for the servclass attribute in the relation RLfc_porttyp for each value of trk_type. For example, if trk_type is set to TAN_RNID then servclass in the tuple of RLfc_porttyp where: key RLfc_porttyp.port == port must be set to FC_LTOLL_CONN, FC_PF, FC_PFLASH or FC_PFITT.

| trk_type | servclass |
|---|---|
| TAN_RNID | FC_LTOLL_CONN |
| TAN_RNID | FC_PF, FC_PFLASH, FC_PFITT |
| TAN_PNID | FC_LTOLL_CONN |
| SAT_PID | FC_PDID |
| SAT_INID | FC_PDID |
| TIE_RNID | FC_LTOLL_CONN |
| TIE_PNID | FC_LTOLL_CONN |
| OFFNET | FC_LTOLL_CONN |
| EOAI_RNID | FC_TTOLL_CONN |
| EOAI_PNID | FC_TTOLL_CONN |
| EOAI_INID | FC_TTOLL_CONN |
| IST_RCD | FC_PRI_INTOLL |
| IST_NONRCD | FC_PRI_INTOLL |

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| | |
|---|---|
| MLPPDQO | FCEDSL |
| MLPPDQI | FCEDSL |
| MLPPPQ | FCEDSL |
| MLPPCQ | FCEDSL |

**Attribute:**
hotline
**Fullname:**
Hotline.
**Attribute Description:**
This attribute indicates whether this port is a hotline or not.

**Attribute:**
prec_limit
**Fullname:**
precedence limit for trunks with this PP feature.
**Attribute Description:**
Authorized precedence level limitation for trunks.
This indicates the HIGHEST authorized precedence level
call originated on a trunk.

**Attribute:**
esp
**Fullname:**
Essential Service Protection.
**Attribute Description:**
Indicates whether a trunk with this PP feature is
essential service protected.

**Attribute:**
dsn103
**Fullname:**
type of 103 test for trunks.
**Attribute Description:**
Indicates which 103 test to run, the DSN 103 or the public 103.
The DSN 103 test is run only on trunks populated in RLpp_trunk
with dsn103 == DBYES.

**Attribute:**
priority_ring
**Fullname:**
priority ring type.
**Attribute Description:**
Indicates the type of priority ringing, used for PP trunks.

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# PP_TRUNK

## 1. Description

Precedence and preemption feature parameters on trunks.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 24192 |
| expected tuples in relation | 230 |
| density | 28 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store option | AUTO |
| trigger function | PCpp_trunktrg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
PP_TRUNK    relid = 657   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     port        DMGPORT      (struct)  <--- key, not stored, compacted
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     feat_id     DMMCC_FID    (ushort)
     trk_type    DMPP_TRKS    (enum: 5)
 (a) prec_limit  DMPP_PREC    (enum: 3)
 (b) priority_ring  DMRNGPAT     (enum: 5)
 (c) esp         DMBOOL       (enum: 1)
 (d) dsn103      DMBOOL       (enum: 1)
            User Tuple Layout      PP_TRUNK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============  port ============+===============|
    |                               |               |               |
  0 |             member            |***************|     module    |
    |===============+===============+===============+===============|
    |                               |         |     |         | | | |
  4 |            feat_id            | trk_type|  a  |    b    |c|d|*|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     port        DMPORT       (ushort)  <--- key, not stored, compacted
     feat_id     DMMCC_FID    (ushort)
     trk_type    DMPP_TRKS    (enum: 5)
 (a) prec_limit  DMPP_PREC    (enum: 3)
 (b) priority_ring  DMRNGPAT     (enum: 5)
 (c) esp         DMBOOL       (enum: 1)
 (d) dsn103      DMBOOL       (enum: 1)
          Compacted Tuple Layout   PP_TRUNK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
```

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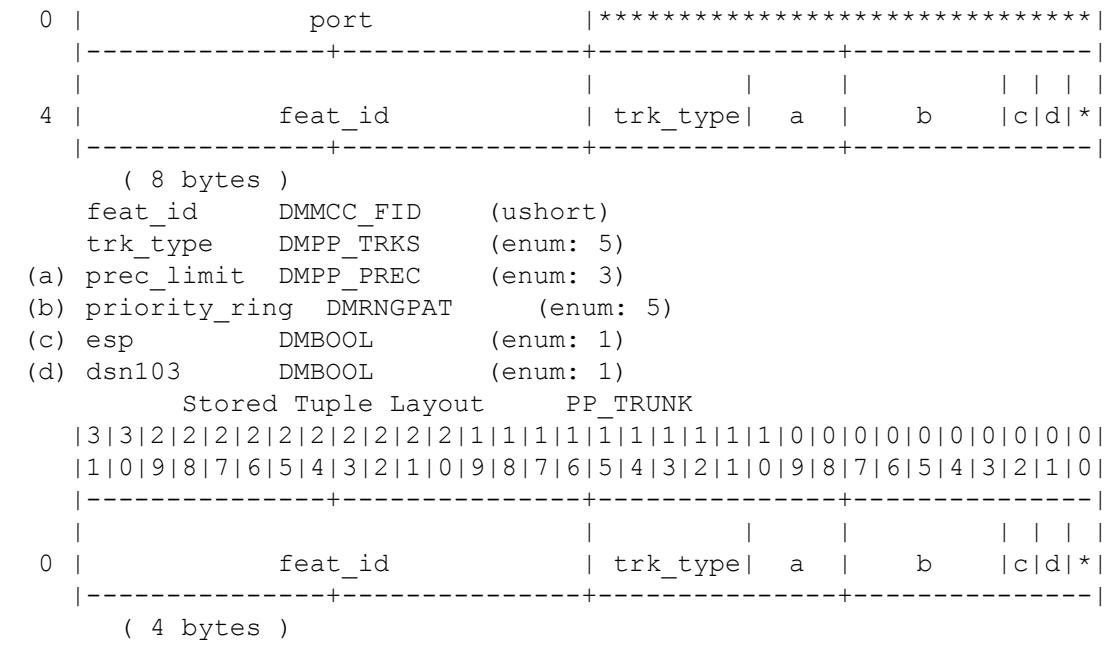


## 4. Population Rules for RLpp_trunk

**Relation Description**
Precedence and preemption feature parameters on trunks.

The relation should not be populated on SMs that have the Global parameter, Glconfigname = D_BASIC. The D_BASIC SM does not contain the loadable package DSNCOMON, which supports the precedence and preemption feature.

**Attribute: port**

**Fullname:** port

**Attribute Description**

(1) Verify existence of tuple in rlFC_TRUNK such that: key rlFC_TRUNK.port = port

(2) Verify existence of tuple in rlFC_PORTTYP with this port as the key. Also for this tuple in rlFC_PORTTYP, rlFC_PORTTYP.servclass can only be one of the following:

FC_PDID, FC_LTOLL_CONN, FC_TTOLL_CONN,
FC_PRI_INTOLL, FC_PF, FC_PFLASH, FC_PFITT, or FCEDSL.

(3) If this is a two-way or out-going trunk that has a trk_type other than SAT_INID, SAT_PID, TAN_RNID, EOAI_RNID, or TIE_RNID, then the following condition must be true: The hunt type of the trunk group that this trunk belongs to must be one of the following:

RTH_PRFLIN, RTH_PRBLIN, RTH_PLFLIN,
RTH_PLBLIN, RTH_PRFIFO, or RTH_PLFIFO. An MLPP trunk group has a servclass of FCEDSL and has a hunt type equal to one of the following: RTH_PRFLIN, RTH_PRBLIN, RTH_PLFLIN or RTH_PLBLIN. This can be verified as follows: Find the tuple in rlPGGPMAP such that: key rlPGGPMAP.port == port, and for this tuple in rlPGGPMAP rlPGGPMAP.portgrp.grpnum == key rlRT_TRKG.grpnum Then for this tuple in rlRT_TRKG rlRT_TRKG.htype == one of the previously mentioned values.

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(4) NOTE: The port.module cannot equal an SM number that has the SM Global Parameter, Glconfigname, set to D_BASIC.

**Attribute: port.member**

**Fullname:** port name of a port

**Attribute Description** See usage of port.

**Attribute: port.module**

**Fullname:** the IM number that this port terminates on

**Attribute Description** See usage of port.

**Attribute: feat_id**

**Fullname:** precedence and preemption constructed feature id

**Attribute Description**

(1) Verify existence of tuple in RLdn_feats with the following keys:

```
lead_module: Gl_pcrid
ltm_type:    LTM_OTHER
ltm_idx:     rlFC_TRUNK.ltm_idxo
range:       any
```

This RLdn_feats tuple must have an attribute such that feat_id = RLdn_feats.ftent[n].fid

(2) Verify existence of tuple RLpp_cf for this key feat_id.

**Attribute: trk_type**

**Fullname:** type of trunk

**Attribute Description** The trunk can either be between the end office and a satellite PBX, or it can connect the end office to an AUTOVON tandem switch. For a nodal or Multi-Function DSN switch, trunks can be between the Nodal/MF switch and

(1) EO switch

(2) AI switch

(3) Non AUTOVON/DSN switch

(4) another Nodal/MF switch

(5) Satellite PBX

In addition the trunk can be assigned the following features:

```
Precedence network in-dialing (PNID)
Immediate network in-dialing (INID)
Routine network in-dialing (RNID)
Priority in-dialing (PID)
```

Dependencies:

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(1) The following dependency cannot be enforced by recent change. For a given trunk group, either all or none of the members must be assigned a PP feature. Also once a PP feature has been assigned, each member in the group must have the same trk_type. Therefore when setting trk_type the following steps should be taken:

(a) Identify the trunk group number associated with this tuple in rlPP_TRUNK by finding the tuple in rlPGGPMAP such that:
```
key rlPGGPMAP.port == port.
Then rlPGGPMAP.portgrp.grpnum contains the
trunk group number.
```

(b) The information about each member in this trunk group can be found in rlGROUP_PORT such that:
```
rlGROUP_PORT.portgrp.grpnum == rlPGGPMAP.portgrp.grpnum
rlGROUP_PORT.portgrp.grptype == rlPGGPMAP.portgrp.grptype
rlGROUP_PORT.member == a given member number.
```

(c) If this port in rlPP_TRUNK is the only member in this trunk group then trk_type can be set to any of the valid enumeration types.

(d) Otherwise, if another member exists in rlGROUP_PORT then verify that this member has been assigned a PP feature by identifying the tuple in rlPP_TRUNK such that: key rlPP_TRUNK.port == rlGROUP_PORT.port. Then set trk_type == rlPP_TRUNK.trk_type. This will insure that all subsequent members added to this trunk group will have the same trk_type.

(2) If trk_type is set to SAT_INID, SAT_PID, TAN_RNID, EOAI_RNID, or TIE_RNID, then the hunt type of the trunk group that this trunk belongs to must NOT be one of the following: RTH_PRFLIN, RTH_PRBLIN RTH_PLFLIN, RTH_PLBLIN, RTH_PRFIFO, or RTH_PLFIFO. (For verification rules see pop. rules for the attribute, port.) The following layout lists the required values for the servclass attribute in the relation RLfc_porttyp for each value of trk_type. For example, if trk_type is set to TAN_RNID then servclass in the tuple of RLfc_porttyp, where key RLfc_porttyp.port == port, must be set to FC_LTOLL_CONN, FC_PF, FC_PFLASH or FC_PFITT.

| trk_type | servclass |
|---|---|
| TAN_RNID | FC_LTOLL_CONN |
| TAN_RNID | FC_PF, FC_PFLASH, FC_PFITT |
| TAN_PNID | FC_LTOLL_CONN |
| SAT_PID | FC_PDID |
| SAT_INID | FC_PDID |
| TIE_RNID | FC_LTOLL_CONN |
| TIE_PNID | FC_LTOLL_CONN |
| OFFNET | FC_LTOLL_CONN |
| EOAI_RNID | FC_TTOLL_CONN |
| EOAI_PNID | FC_TTOLL_CONN |
| EOAI_INID | FC_TTOLL_CONN |
| IST_RCD | FC_PRI_INTOLL |
| IST_NONRCD | FC_PRI_INTOLL |
| MLPPDQO | FCEDSL |
| MLPPDQI | FCEDSL |
| MLPPPQ | FCEDSL |
| MLPPCQ | FCEDSL |

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**Attribute: prec_limit**

**Fullname:** authorized precedence level limitation

**Attribute Description** Dependencies: Each trk_type can have only the following values for prec_limit:

| trk_type | prec_limit |
|---|---|
| SAT_INID | PP_FLOVERRIDE |
| SAT_PID | PP_FLOVERRIDE |
| TAN_RNID | PP_ROUTINE, PP_FLASH, PP_IMMEDIATE, PP_PRIORITY, PP_FLOVERRIDE |
| TAN_PNID | PP_FLOVERRIDE, PP_FLASH, PP_IMMEDIATE, PP_PRIORITY, PP_ROUTINE |
| EOAI_PNID | PP_FLOVERRIDE, PP_FLASH, PP_IMMEDIATE, PP_PRIORITY, PP_ROUTINE |
| EOAI_RNID | PP_FLOVERRIDE, PP_FLASH, PP_IMMEDIATE, PP_PRIORITY, PP_ROUTINE |
| EOAI_INID | PP_FLOVERRIDE, PP_FLASH, PP_IMMEDIATE, PP_PRIORITY, PP_ROUTINE |
| OFFNET | PP_FLOVERRIDE |
| IST_RCD | PP_FLOVERRIDE |
| IST_NONRCD | PP_FLOVERRIDE |
| TIE_RNID | PP_ROUTINE, PP_FLOVERRIDE, PP_IMMEDIATE, PP_FLASH, PP_PRIORITY |
| TIE_PNID | PP_FLOVERRIDE, PP_ROUTINE, PP_IMMEDIATE, PP_FLASH, PP_PRIORITY |
| MLPPDQO | PP_FLOVERRIDE, PP_ROUTINE, PP_IMMEDIATE, PP_FLASH, PP_PRIORITY |
| MLPPDQI | PP_FLOVERRIDE, PP_ROUTINE, PP_IMMEDIATE, PP_FLASH, PP_PRIORITY |
| MLPPPQ | PP_FLOVERRIDE, PP_ROUTINE, PP_IMMEDIATE, PP_FLASH, PP_PRIORITY |
| MLPPCQ | PP_FLOVERRIDE, PP_ROUTINE, PP_IMMEDIATE, PP_FLASH, PP_PRIORITY |

**Attribute: esp**

**Fullname:** essential service protection

**Attribute Description** Indicates whether this trunk is essential service protected. Dependencies: esp must be set to DBNO for trk_type values of SAT_INID, SAT_PID, TAN_RNID, TAN_PNID,

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OFFNET, IST_RCD, IST_NONRCD, TIE_RNID, TIE_PNID, MLPPDQO, MLPPDQI, MLPPPQ and MLPPCQ.

**Attribute: dsn103**

**Fullname:** DSN 103 test

**Attribute Description** Indicates which 103 test to run when a 103 test is requested. If dsn103 == DBYES, run the DSN 103 test, and if dsn103 == DBNO, run the public 103 test. The DSN 103 test is in the same family as the public 103 test but contains additional tests (such as a preemption wink). The DSN 103 test takes the place of the public 103 test and the DSN 103 test is run only on trunks that have a tuple populated in RLpp_trunk and have dsn103 == DBYES.

**Attribute: priority_ring**

**Fullname:** type of priority ringing

**Attribute Description** Indicates type of priority ringing. Dependencies: If trk_type is set to EOAI_INID, then priority_ring is a required field and must be set to LP4WOFF, LP4W350, or LP4W1650.

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# PPARM_R

## 1. Description

This is the Root storage relation for RLprotparm.G virtual update relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 81 |
| expected tuples | 11 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTORAGE |
| foldtype | DBGC31 |

## 3. Field Layout

```
PPARM_R     relid = 3116  DBSTORAGE  DBACC_DHSH  DBPRAM    FP      NULL


     pcr_name    DMPCRNAME    (struct)  <--- key
         pcr_id      DMUNS8       (ushort: 8)
         qualA       DMUNS8       (ushort: 8)
         qualB       DMUNS8       (ushort: 8)
         qualC       DMUNS8       (ushort: 8)
     pval        DMGK14       (ulong: 14)
         User, Compacted and Stored Tuple Layout    PPARM_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+==========  pcr_name ==========+===============|
    |               |               |               |               |
  0 |     pcr_id    |     qualA     |     qualB     |     qualC     |
    |===============+===============+===============+===============|
    |                               |                               |
  4 |            pval               |*********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLpparm_r

**Relation Description**

There are no population rules for this relation.

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# PPMCKT

## 1. Description

Periodic pulse metering port associated with a ppm circuit.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 640 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
PPMCKT      relid = 280   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     ppmckt      DMCIRCUIT    (ushort)  <--- key
     ppm_port    DMPORT       (ushort)
         User, Compacted and Stored Tuple Layout PPMCKT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             ppmckt            |            ppm_port           |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLppmckt

There are no population rules for this relation.

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# PPMPORT

## 1. Description

Periodic pulse metering circuit associated with a ppm port.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 640 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
PPMPORT     relid = 279   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     ppm_port    DMPORT       (ushort)  <--- key
     ppmckt      DMCIRCUIT    (ushort)
         User, Compacted and Stored Tuple Layout    PPMPORT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            ppm_port           |             ppmckt            |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLppmport

There are no population rules for this relation.

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# PPSCRMKS

## 1. Description

Contains precedence and preemption screening recent change remark data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 6000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| head table size | 1024 |
| data page size | 1024 |
| foldtype | DBGC31 |

## 3. Field Layout

```
PPSCRMKS    relid = 1080  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCDATA
     si          DMSCRNIDX    (ushort: 12)  <--- key
 (a) rte_code    DMPP_RTE     (enum: 4)  <--- key
     di          DMDESTIDX    (ushort: 12)  <--- key
 (b) prec_level  DMPP_PREC    (enum: 3)  <--- key
     remarks     DMMC_RMK     (array [ 32 ] of char )
         User, Compacted and Stored Tuple Layout   PPSCRMKS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                         |       |                         |     | |
  0 |           si            |   a   |           di            |  b  |*|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             remarks                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             remarks                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                             remarks                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                             remarks                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                             remarks                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 24 |                             remarks                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 28 |                             remarks                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 32 |                             remarks                           |
```

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```
|---------------+---------------+---------------+---------------|
   ( 36 bytes )
```

## 4. Population Rules for RLppscrmks

**Relation Description**
This is a relation that is needed to implement the precedence and preemption (PP) modular feature.

This relation can remain empty, meaning no tuples populated, until subscribers requesting the PP feature have been identified.

**Attribute: si**

**Fullname:** Screening Index

**Attribute Description** Screening index associated with a line.

**Attribute: di**

**Fullname:** Destination Index

**Attribute Description** Destination index.

**Attribute: rte_code**

**Fullname:** Route Code

**Attribute Description** Indicates the valid route codes that can be analyzed.

**Attribute: prec_level**

**Fullname:** Precedence Level

**Attribute Description** Indicates the precedence level of the call in progress.

**Attribute: remarks**

**Fullname:** Remarks

**Attribute Description** Remarks associated with RLrtppscrn relation tuples.

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# PR_DNTRAN

## 1. Description

This relation contains the packet DN terminating translations.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16000 |
| expected number of tuples | 2000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| ks key store | AUTO |
| cluster | 100 |

## 3. Field Layout

```
PR_DNTRAN   relid = 1138  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL


    dn          DMLOCDN      (struct)  <--- key, not stored, compacted
        noc         DMNOC        (ushort: 14)
        digits      DMLOCDIG     (array [ 4 ] of char )
    caseindex   DMCASEMAX    (ushort: 9)
    ph_number   DMPHNBR      (uchar: 7)
    module      DMMODULE     (ushort: 8)
    ph_cn       DMPHCN       (uchar: 7)
(a) chan_sel    DMBOOL       (enum: 1)
    psbgrp      DMPSBGRP     (ushort: 7)
(b) psdenytm    DMBOOL       (enum: 1)
(c) pstermcl    DMTERMCLASS  (enum: 4)
    party       DMPARTY      (ushort: 4)
(d) psucd       DMBOOL       (enum: 1)
          User Tuple Layout     PR_DNTRAN
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+============  dn ============+===============|
   |   |                            |                               |
 0 |***|            noc             |             digits            |
   | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                |                               |
 4 |             digits             |*******************************|
   |================+===============+===============+===============|
   |                  |             |               |             | |
 8 |    caseindex     |  ph_number  |     module    |    ph_cn    |a|
   |----------------+---------------+---------------+---------------|
   |              | |       |       | |                             |
12 |    psbgrp    |b|   c   | party |d|*****************************|
   |--------------+---------------+---------------+---------------|
      ( 16 bytes )


    dn          DMKLOCDN     (struct)  <--- key, not stored, compacted
        noc         DMNOC        (ushort: 14)
```

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```
        index       DMUNS14      (ushort: 14)
    caseindex   DMCASEMAX    (ushort: 9)
    ph_number   DMPHNBR      (uchar: 7)
    module      DMMODULE     (ushort: 8)
    ph_cn       DMPHCN       (uchar: 7)
(a) chan_sel    DMBOOL       (enum: 1)
    psbgrp      DMPSBGRP     (ushort: 7)
(b) psdenytm    DMBOOL       (enum: 1)
(c) pstermcl    DMTERMCLASS  (enum: 4)
    party       DMPARTY      (ushort: 4)
(d) psucd       DMBOOL       (enum: 1)
         Compacted Tuple Layout  PR_DNTRAN
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+=============  dn =============+===============|
   |   |                            |                              |   |
 0 |***|            noc             |            index             |***|
   |===============+===============+===============+===============|
   |                                                                |
 4 |****************************************************************|
   |---------------+---------------+---------------+---------------|
   |                 |             |               |             | |
 8 |    caseindex    |  ph_number  |     module    |    ph_cn    |a|
   |---------------+---------------+---------------+---------------|
   |             | |       |       | |                            |
12 |    psbgrp   |b|   c   | party |d|****************************|
   |---------------+---------------+---------------+---------------|
      ( 16 bytes )


    caseindex   DMCASEMAX    (ushort: 9)
    ph_number   DMPHNBR      (uchar: 7)
    module      DMMODULE     (ushort: 8)
    ph_cn       DMPHCN       (uchar: 7)
(a) chan_sel    DMBOOL       (enum: 1)
    psbgrp      DMPSBGRP     (ushort: 7)
(b) psdenytm    DMBOOL       (enum: 1)
(c) pstermcl    DMTERMCLASS  (enum: 4)
    party       DMPARTY      (ushort: 4)
(d) psucd       DMBOOL       (enum: 1)
          Stored Tuple Layout    PR_DNTRAN
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                 |             |               |             | |
 0 |    caseindex    |  ph_number  |     module    |    ph_cn    |a|
   |---------------+---------------+---------------+---------------|
   |             | |       |       | |                            |
 4 |    psbgrp   |b|   c   | party |d|****************************|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population rules for RLpr_dntra

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**Relation Description**

```
Packet Switching Directory Number Translation

This relation translates packet DN into packet user's


"The following tuple semantics detail the allowed values for
the possible types of Packet Directory Numbers.

TUPLE SEMANTICS for a DN with Individual Termination Class
-----------------------------------------------------------
dn              Directory Number
module          Switching Module Number
ph_number       Protocol Handler Number
ph_cn           Protocol Handler Channel Number
party           Party
pstermcl        RTTC_INDIVID (Individual Termination Class)
psdenytm        {DBYES,DBNO}
chan_sel        {DBYES,DBNO}
psucd           DBNO
psbgrp          0-100 (Packet Business Group Number)

TUPLE SEMANTICS for a MLHG Uniform Call Distribution DN
-------------------------------------------------------
dn              Directory Number
module          0 (Switching Module Number)
ph_number       0 (Protocol Handler Number)
ph_cn           0 (Protocol Handler Channel Number)
party           0 (Party)
pstermcl        RTTC_PORTGRP (Multi-Line Hunt Group)
psdenytm        DBNO
chan_sel        DBNO
psucd           DBYES (Uniform Call Distribution DN)
psbgrp          0 (Packet Business Group Number)

TUPLE SEMANTICS for a MLHG Linear Entry Point DN
------------------------------------------------
dn              Directory Number
module          0 (Switching Module Number)
ph_number       0 (Protocol Handler Number)
ph_cn           0 (Protocol Handler Channel Number)
party           0 (Party)
pstermcl        RTTC_PORTGRP (Multi-Line Hunt Group)
psdenytm        DBNO
chan_sel        DBNO
psucd           DBNO (Linear Entry Point DN)
psbgrp          0 (Packet Business Group Number)

TUPLE SEMANTICS for a Modem Pool Group DN
-----------------------------------------
dn              Directory Number
module          0 (Switching Module Number)
ph_number       0 (Protocol Handler Number)
```

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```
        ph_cn           0 (Protocol Handler Channel Number)
        party           0 (Party)
        pstermcl        RTTC_MODEM (Multi-Line Hunt Group)
        psdenytm        DBNO
        chan_sel        DBNO
        psucd           DBNO (default)
        psbgrp          0 (Packet Business Group Number)"
```

**Attribute:**
dn
**Fullname:**
packet switching directory number
**Attribute Description:**
usage: This attribute consists on the NOC (normalized office code) and four directory number digits.

For any directory number, if the noc+d4d3 has a tuple in relation RLRTDNMOD with a non-zero route index a tuple also may exist in RLPR_DNTRAN. For these cases the tuple in RLPR_DNTRAN will take precedence insofar as call routing is concerned. This is true regardless of the type of SM (RSM/LSM/HSM/ORM) from which the call originates. An example where this is useful is the case of a DN hundreds group where most DNs all route to the same PBX trunk group but there are a few DNs in that hundreds group which do not. In this case the route index in RLRTDNMOD is used to route the majority of calls to the hundreds group whereas those few which route differently do so via the existence of RLPR_DNTRAN tuples.

**Attribute:**
dn.noc
**Fullname:**
Normalized office code
**Attribute Description:**
See attribute dn

**Attribute:**
dn.digits
**Fullname:**
Directory Digits
**Attribute Description:**
Local directory number minus the office code.

**Attribute:**
module
**Fullname:**
SM number
**Attribute Description:**

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SM number where the DSL or packet user associated to the DN is located.

**Attribute:**
ph_number
**Fullname:**
PH number
**Attribute Description:**
PH number of the terminating packet switching user of a DSL is connected to.

**Attribute:**
ph_cn
**Fullname:**
PH channel number
**Attribute Description:**
Channel number of the PH the terminating packet switching user is connected to.

**Attribute:**
party
**Fullname:**
Party
**Attribute Description:**
Specific user within an ISDN DSL D-channel.

**Attribute:**
pstermcl
**Fullname:**
Terminating class of the packet switching user.
**Attribute Description:**
To indicate the packet switching user termination class.

**Attribute:**
psdenytm
**Fullname:**
Deny termination on the packet switching user.
**Attribute Description:**
Deny termination on the packet switching user.

**Attribute:**
chan_sel
**Fullname:**
Active Channel Selection
**Attribute Description:**
The active channel selection attribute specifies that the dn is a Common DN that is shared by at least two channels.

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Since the DN is a Common DN, there must exist a tuple of RLcdnchan for the DN. Only one of the channels of the Common DN can be RLpr_dntran. If the D-Channel is assigned, then the D-Channel is put in RLpr_dntran. If the D-Channel is not assigned, then first B-Channel in RLcdnchan is put in RLpr_dntran.

**Attribute:**
psucd
**Fullname:**
Packet Switching Uniform Call Distribution
**Attribute Description:**
The psucd attribute specifies whether the dn is a packet Uniform Call Distribution DN or a Linear entry point DN when the pstermcl = RTTC_PORTGRP.

If pstermcl = RTTC_PORTGRP and psucd = DBNO the DN must have a tuple populated in RLpsldn_gp, otherwise if psucd equals DBYES, then the DN must have a tuple populated in RLrtdn_mhg.

For packet UCD or linear DNs, there is no port information in this relation.

The psucd attribute is equal to DBNO for any term class other than RTTC_PORTGRP.

**Attribute:**
psbgrp
**Fullname:**
Packet Business Group number
**Attribute Description:**
This attribute specifies the Packet Business Group (PBG) number that is associated with the dn.

If termclass is RTTC_INDIVID, then the psbgrp attribute is the PBG that provisioned for the line. The value of 0 is used, if the line does not subscribe to a PBG. If termclass is not RTTC_INDIVID, then the psbgrp attribute has the value of 0.

If termclass is RTTC_PORTGRP, then the Packet Business Group number that is associated with the Multi-Line Hunt Group is in RLrt_mhg. If the psbgrp attribute is not equal to 0, then RLpbg_sfg and RLpbg_info must exist keyed by psbgrp.

**Attribute:**
caseindex

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**Fullname:**
Case Index
**Attribute Description:**
Index into the CALEA cases

**Defines:**
"db/DMportindx.h"

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# PRI_SM

## 1. Description

This relation contains the PRI (Primary Rate Interface) to SM mapping.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4095 |
| expected tuples in relation | 5 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTATIC |
| trigger function | TMpri_sm |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
PRI_SM      relid = 1925  DBSTATIC   DBACC_HASH  DBPRAM    LR      NULL
     dprim_port  DMPORT       (ushort)
     dsec_port   DMPORT       (ushort)
     prigrp      DMPRIGRP     (ushort: 12)    <--- key
     sm          DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout PRI_SM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |           dprim_port          |           dsec_port           |
    |---------------+---------------+---------------+---------------|
    |                         |     |               |               |
  4 |         prigrp          |*****|       sm      |***************|
    |---------------+---------------+---------------+---------------|
                               ( 8 bytes )
```

## 4. Population rules for RLpri_sm

**Relation Description**

Primary Rate Interface to SM mapping
This relation defines on what SM the Primary Rate Interface (PRI) groups have been defined. Each group consists of 1 D-channel and up to 479 B-channels in up to 20 facilities (providing Non-Facility Associated Signaling) or 2 D-channels and up to 478 B-channels in up to 20 facilities (providing Non-facility Associated Signaling with D-channel Backup).

**Attribute:**

prigrp

**Fullname:**

primary rate interface group name

**Attribute Description:**

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This is a unique number assigned to each PRI group in the office.

**Attribute:**
sm
**Fullname:**
Switching Module
**Attribute Description:**
This specifies the SM where the PRI Group is defined.

**Attribute:**
dprim_port
**Fullname:**
Primary D-channel port
**Attribute Description:**
Port name of PRI primary D-channel

**Attribute:**
dsec_port
**Fullname:**
Secondary D-channel port
**Attribute Description:**
Port name of PRI secondary D-channel

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# PRIFACS

## 1. Description

This relation defines facilities and B-channels in a PRI Group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20160 |
| expected number of tuples | 4 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation | unperm |
| trigger function | TMprifacs |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
PRIFACS     relid = 1926  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     prigrp      DMPRIGRP     (ushort: 12)    <--- key
     interf_id   DMUNS8       (ushort: 8)    <--- key
 (a) num_bchans  DMUNS5       (ushort: 5)
     bchan0      DMPORT       (ushort)
     bchan1      DMPORT       (ushort)
     bchan2      DMPORT       (ushort)
     bchan3      DMPORT       (ushort)
     bchan4      DMPORT       (ushort)
     bchan5      DMPORT       (ushort)
     bchan6      DMPORT       (ushort)
     bchan7      DMPORT       (ushort)
     bchan8      DMPORT       (ushort)
     bchan9      DMPORT       (ushort)
     bchan10     DMPORT       (ushort)
     bchan11     DMPORT       (ushort)
     bchan12     DMPORT       (ushort)
     bchan13     DMPORT       (ushort)
     bchan14     DMPORT       (ushort)
     bchan15     DMPORT       (ushort)
     bchan16     DMPORT       (ushort)
     bchan17     DMPORT       (ushort)
     bchan18     DMPORT       (ushort)
     bchan19     DMPORT       (ushort)
     bchan20     DMPORT       (ushort)
     bchan21     DMPORT       (ushort)
     bchan22     DMPORT       (ushort)
     bchan23     DMPORT       (ushort)

         User, Compacted and Stored Tuple Layout    PRIFACS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |       |               |         |     |
```

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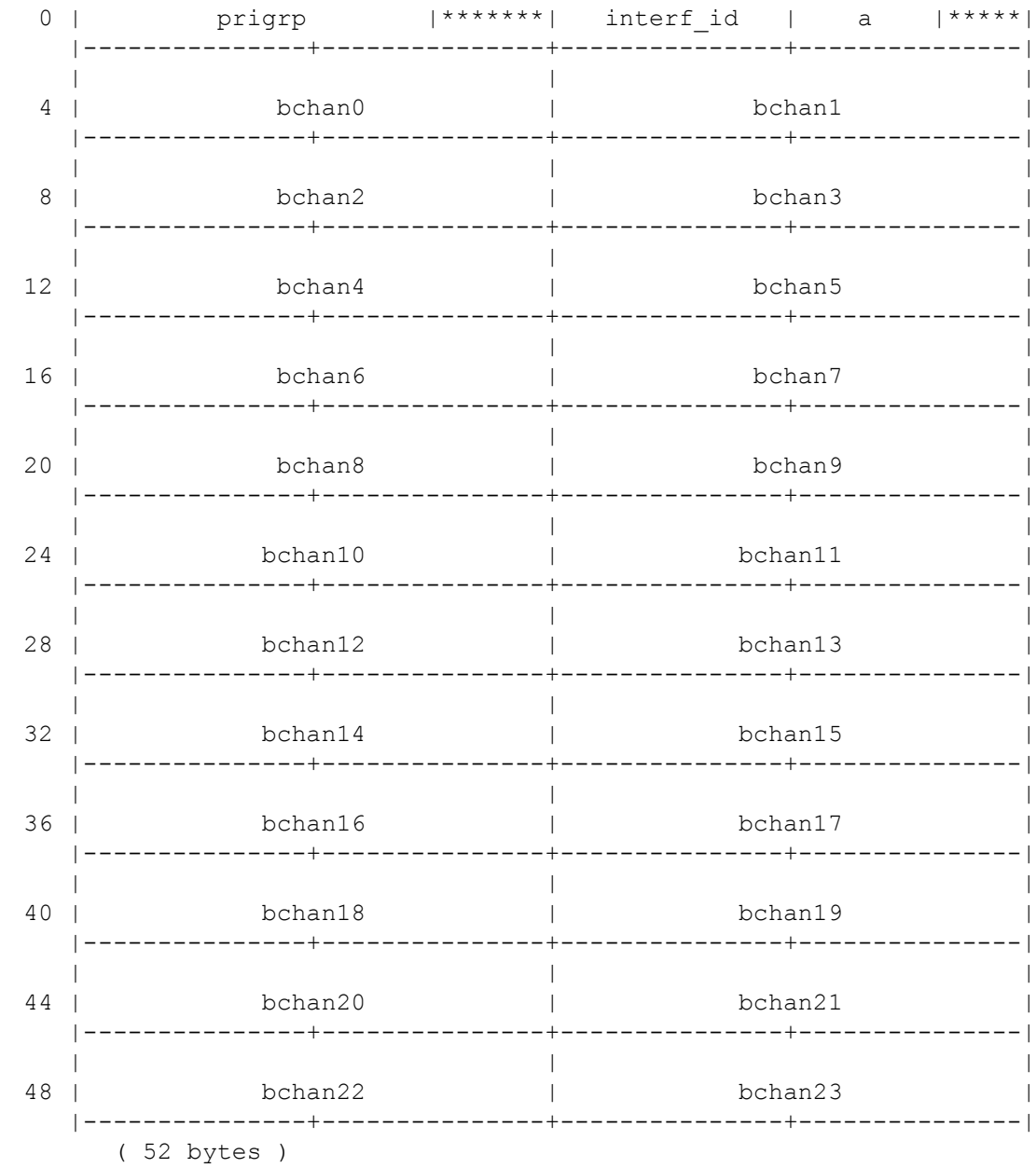
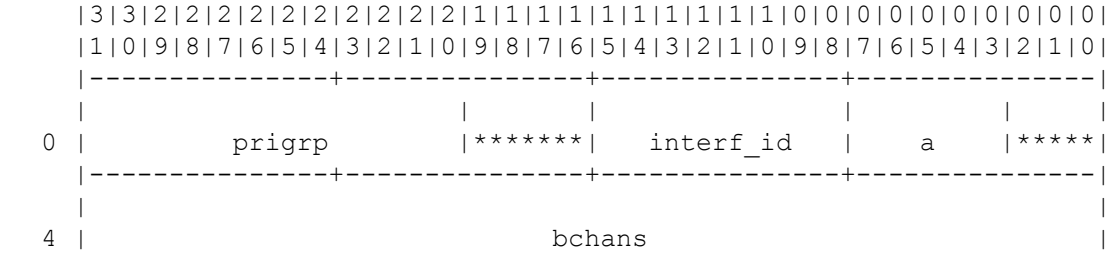



( 52 bytes )

```
domain alPRIFACS  struct  (4 sub-attributes)
         prigrp      .3.fake      (ushort: 12)
         interf_id   .4.fake      (ushort)
 (a)     num_bchans  .5.fake      (ushort: 5)
         bchans      .6.fake      (array [ 24 ] of unsigned short )
```

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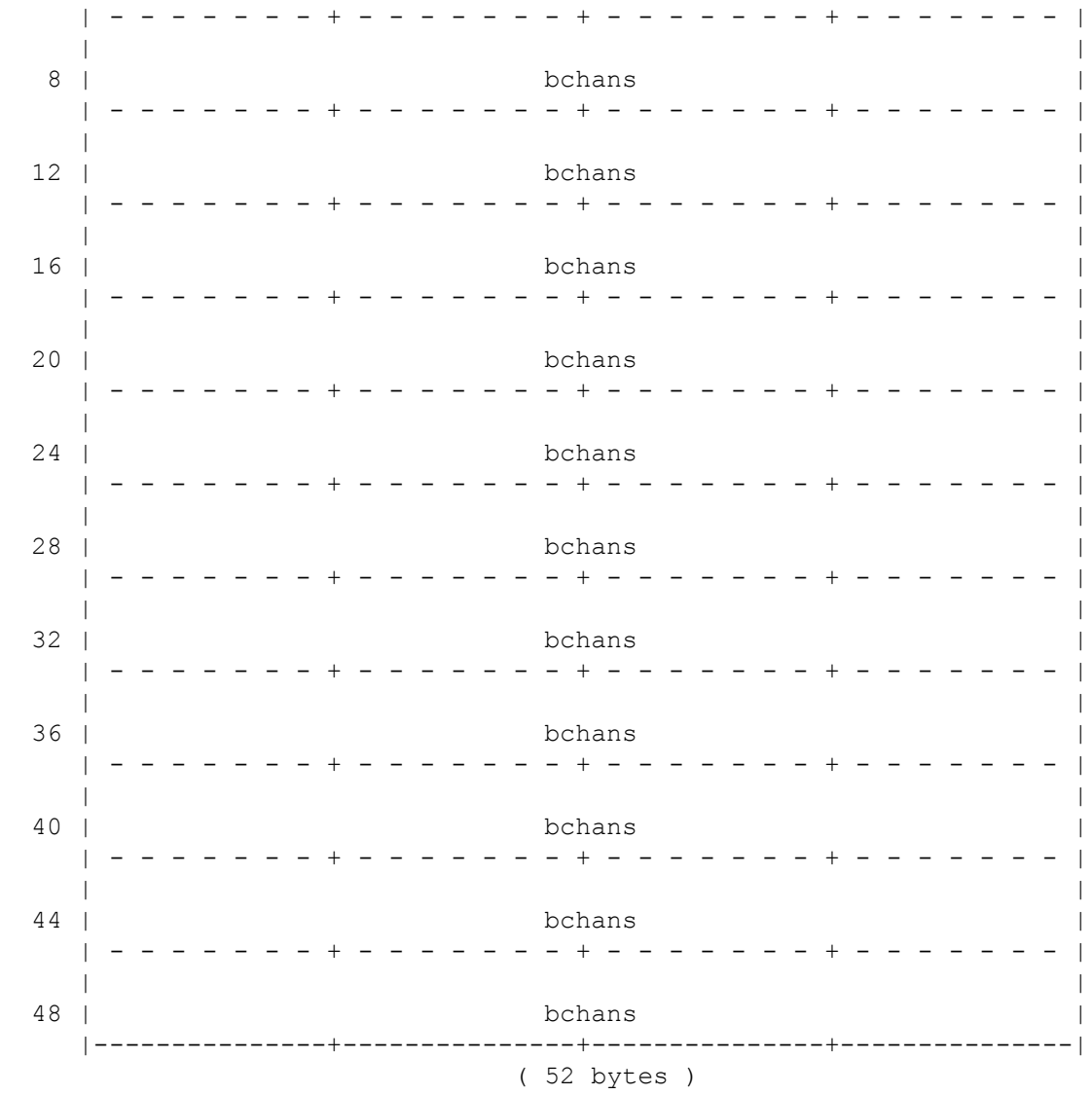


## 4. Population rules for RLprifacs

**Relation Description**

Primary Rate Interface Facilities
This relation defines the facilities (that is, T1's)
that have been assigned to a Primary Rate Interface Group.
A PRI group consists of 1 D-channel and up to 479 B-channels in
up to MAXDCHANS (20 for 5E9(1)) facilities (providing Non-Facility
Associated Signaling) or 2 D-channels and up to 478 B-channels
in up to 20 facilities (providing Non-facility Associated
Signaling with D-channel Backup).

**Attribute:**

prigrp

**Fullname:**

primary rate interface group name

**Attribute Description:**

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This is a unique number assigned to each PRI group in the office.

**Attribute:**
interf_id
**Fullname:**
Interface ID
**Attribute Description:**
This specifies the interface ID number that has been assigned to this facility in the given PRI group.

**Attribute:**
num_bchans
**Fullname:**
Number of B-channels
**Attribute Description:**
This specifies the number of B-channels that have been assigned on the facility identified by the given interface ID on the given PRI group.

**Attribute:**
bchan[*]
**Fullname:**
B-channel ports
**Attribute Description:**
This specifies up to 24 B-channel ports that have been assigned on this facility for this PRI group.

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# PRIFEATS

## 1. Description

This relation contains the Primary Rate Interface (PRI) group features.

This relation contains the feature data for features and services that are assigned to PRI groups.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1008 |
| expected number of tuples | 4 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 29 |
| permutation | perm |

## 3. Field Layout

```
PRIFEATS    relid = 2907  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL


    tbctsrvgrp  DMPRISRVGP   (ulong: 17)
    prigrp      DMPRIGRP     (ushort: 12)      <--- key
 (a) spare1     DMUNS2       (ushort: 2)
 (b) tbct_active  DMBOOL      (enum: 1)
    max_act_tbct  DMUSHORT     (ushort)
    max_reqs_tbct  DMUNS9       (ushort: 9)
    spare2      DMUNS7       (ushort: 7)
        User, Compacted and Stored Tuple Layout   PRIFEATS
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                       |   | |
 0 |            tbctsrvgrp           |         prigrp        | a |b|
   |---------------+---------------+---------------+---------------|
   |                                 |                 |             |
 4 |          max_act_tbct           |  max_reqs_tbct  |    spare2   |
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population rules for RLprifeats

**Relation Description**

```
        Primary rate interface (PRI) features


        This relation defines on a per switching module (SM) basis, the
        features associated with the PRI group.
```

**Attribute:**

```
        prigrp
```

**Fullname:**

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PRI group number

**Attribute Description:**

This is a unique number assigned to each PRI group in the office.

**Attribute:**

max_act_tbct

**Fullname:**

Maximum Active Two B-channel Transfers.

**Attribute Description:**

Maximum number of active transfers.

**Attribute:**

max_reqs_tbct

**Fullname:**

Maximum Two B-channel Transfer Requests.

**Attribute Description:**

Maximum number of valid transfer requests accepted per 10 seconds.

**Attribute:**

tbctsrvgrp

**Fullname:**

Two B-channel Transfer Serving Group.

**Attribute Description:**

The TBCT PRI serving group number for this PRI group.

**Attribute:**

tbct_active

**Fullname:**

Two B-channel Transfer Active.

**Attribute Description:**

Indicates whether the service type TBCT is active for this PRI group.

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# PRIGRP

## 1. Description

This relation contains the PRI (Primary Rate Interface) group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1008 |
| expected number of tuples | 4 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 29 |
| permutation | unperm |
| trigger function | TMprigrp |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
PRIGRP      relid = 1924  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     prigrp      DMPRIGRP     (ushort: 12)    <--- key
 (a) pri_type    DMPRI_TYPE   (enum: 2)
 (b) bchan_serv  DMMC_BOOL    (enum: 2)
 (c) std_nsf_ie  DMMC_BOOL    (enum: 2)
     num_facs    DMUNS5       (ushort: 5)
     num_bchans  DMUNS9       (ushort: 9)
     dprim_port  DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     dsec_port   DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     fac0        DMFAC_INTF   (struct)
         fac_name    DMCIRCUIT    (ushort)
         interf_id   DMUNS8       (ushort: 8)
         fac_mod     DMMODULE     (ushort: 8)
 (d)     b_flag      DMBOOL       (enum: 1)
     fac1        DMFAC_INTF   (struct)
         fac_name    DMCIRCUIT    (ushort)
         interf_id   DMUNS8       (ushort: 8)
         fac_mod     DMMODULE     (ushort: 8)
 (e)     b_flag      DMBOOL       (enum: 1)
     fac2        DMFAC_INTF   (struct)
         fac_name    DMCIRCUIT    (ushort)
         interf_id   DMUNS8       (ushort: 8)
         fac_mod     DMMODULE     (ushort: 8)
 (f)     b_flag      DMBOOL       (enum: 1)
     fac3        DMFAC_INTF   (struct)
         fac_name    DMCIRCUIT    (ushort)
         interf_id   DMUNS8       (ushort: 8)
         fac_mod     DMMODULE     (ushort: 8)
 (g)     b_flag      DMBOOL       (enum: 1)
     fac4        DMFAC_INTF   (struct)
```

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```
        fac_name    DMCIRCUIT    (ushort)
        interf_id   DMUNS8       (ushort: 8)
        fac_mod     DMMODULE     (ushort: 8)
(h)     b_flag      DMBOOL       (enum: 1)
    fac5        DMFAC_INTF   (struct)
        fac_name    DMCIRCUIT    (ushort)
        interf_id   DMUNS8       (ushort: 8)
        fac_mod     DMMODULE     (ushort: 8)
(i)     b_flag      DMBOOL       (enum: 1)
    fac6        DMFAC_INTF   (struct)
        fac_name    DMCIRCUIT    (ushort)
        interf_id   DMUNS8       (ushort: 8)
        fac_mod     DMMODULE     (ushort: 8)
(j)     b_flag      DMBOOL       (enum: 1)
    fac7        DMFAC_INTF   (struct)
        fac_name    DMCIRCUIT    (ushort)
        interf_id   DMUNS8       (ushort: 8)
        fac_mod     DMMODULE     (ushort: 8)
(k)     b_flag      DMBOOL       (enum: 1)
    fac8        DMFAC_INTF   (struct)
        fac_name    DMCIRCUIT    (ushort)
        interf_id   DMUNS8       (ushort: 8)
        fac_mod     DMMODULE     (ushort: 8)
(l)     b_flag      DMBOOL       (enum: 1)
    fac9        DMFAC_INTF   (struct)
        fac_name    DMCIRCUIT    (ushort)
        interf_id   DMUNS8       (ushort: 8)
        fac_mod     DMMODULE     (ushort: 8)
(m)     b_flag      DMBOOL       (enum: 1)
    fac10       DMFAC_INTF   (struct)
        fac_name    DMCIRCUIT    (ushort)
        interf_id   DMUNS8       (ushort: 8)
        fac_mod     DMMODULE     (ushort: 8)
(n)     b_flag      DMBOOL       (enum: 1)
    fac11       DMFAC_INTF   (struct)
        fac_name    DMCIRCUIT    (ushort)
        interf_id   DMUNS8       (ushort: 8)
        fac_mod     DMMODULE     (ushort: 8)
(o)     b_flag      DMBOOL       (enum: 1)
    fac12       DMFAC_INTF   (struct)
        fac_name    DMCIRCUIT    (ushort)
        interf_id   DMUNS8       (ushort: 8)
        fac_mod     DMMODULE     (ushort: 8)
(p)     b_flag      DMBOOL       (enum: 1)
    fac13       DMFAC_INTF   (struct)
        fac_name    DMCIRCUIT    (ushort)
        interf_id   DMUNS8       (ushort: 8)
        fac_mod     DMMODULE     (ushort: 8)
(q)     b_flag      DMBOOL       (enum: 1)
    fac14       DMFAC_INTF   (struct)
        fac_name    DMCIRCUIT    (ushort)
        interf_id   DMUNS8       (ushort: 8)
        fac_mod     DMMODULE     (ushort: 8)
(r)     b_flag      DMBOOL       (enum: 1)
```

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```
    fac15       DMFAC_INTF   (struct)
        fac_name    DMCIRCUIT    (ushort)
        interf_id   DMUNS8       (ushort: 8)
        fac_mod     DMMODULE     (ushort: 8)
(s)     b_flag      DMBOOL       (enum: 1)
    fac16       DMFAC_INTF   (struct)
        fac_name    DMCIRCUIT    (ushort)
        interf_id   DMUNS8       (ushort: 8)
        fac_mod     DMMODULE     (ushort: 8)
(t)     b_flag      DMBOOL       (enum: 1)
    fac17       DMFAC_INTF   (struct)
        fac_name    DMCIRCUIT    (ushort)
        interf_id   DMUNS8       (ushort: 8)
        fac_mod     DMMODULE     (ushort: 8)
(u)     b_flag      DMBOOL       (enum: 1)
    fac18       DMFAC_INTF   (struct)
        fac_name    DMCIRCUIT    (ushort)
        interf_id   DMUNS8       (ushort: 8)
        fac_mod     DMMODULE     (ushort: 8)
(v)     b_flag      DMBOOL       (enum: 1)
    fac19       DMFAC_INTF   (struct)
        fac_name    DMCIRCUIT    (ushort)
        interf_id   DMUNS8       (ushort: 8)
        fac_mod     DMMODULE     (ushort: 8)
(w)     b_flag      DMBOOL       (enum: 1)
    numapx      DMSHORT      (short)
```

User, Compacted and Stored Tuple Layout PRIGRP

```
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                       |   |   |   |         |                 |
 0 |         prigrp        | a | b | c | num_facs|    num_bchans   |
   |===============+=========  dprim_port =========+===============|
   |                               |               |                 |
 4 |             member            |***************|     module      |
   |===============+========== dsec_port ==========+===============|
   |                               |               |                 |
 8 |             member            |***************|     module      |
   |===============+============  fac0 ============+===============|
   |                               |               |                 |
12 |            fac_name           |   interf_id   |    fac_mod      |
   |---------------+---------------+---------------+---------------|
   | |                                                               |
16 |d|***************************************************************|
   |===============+============  fac1 ============+===============|
   |                               |               |                 |
20 |            fac_name           |   interf_id   |    fac_mod      |
   |---------------+---------------+---------------+---------------|
   | |                                                               |
24 |e|***************************************************************|
   |===============+============  fac2 ============+===============|
   |                               |               |                 |
28 |            fac_name           |   interf_id   |    fac_mod      |
```

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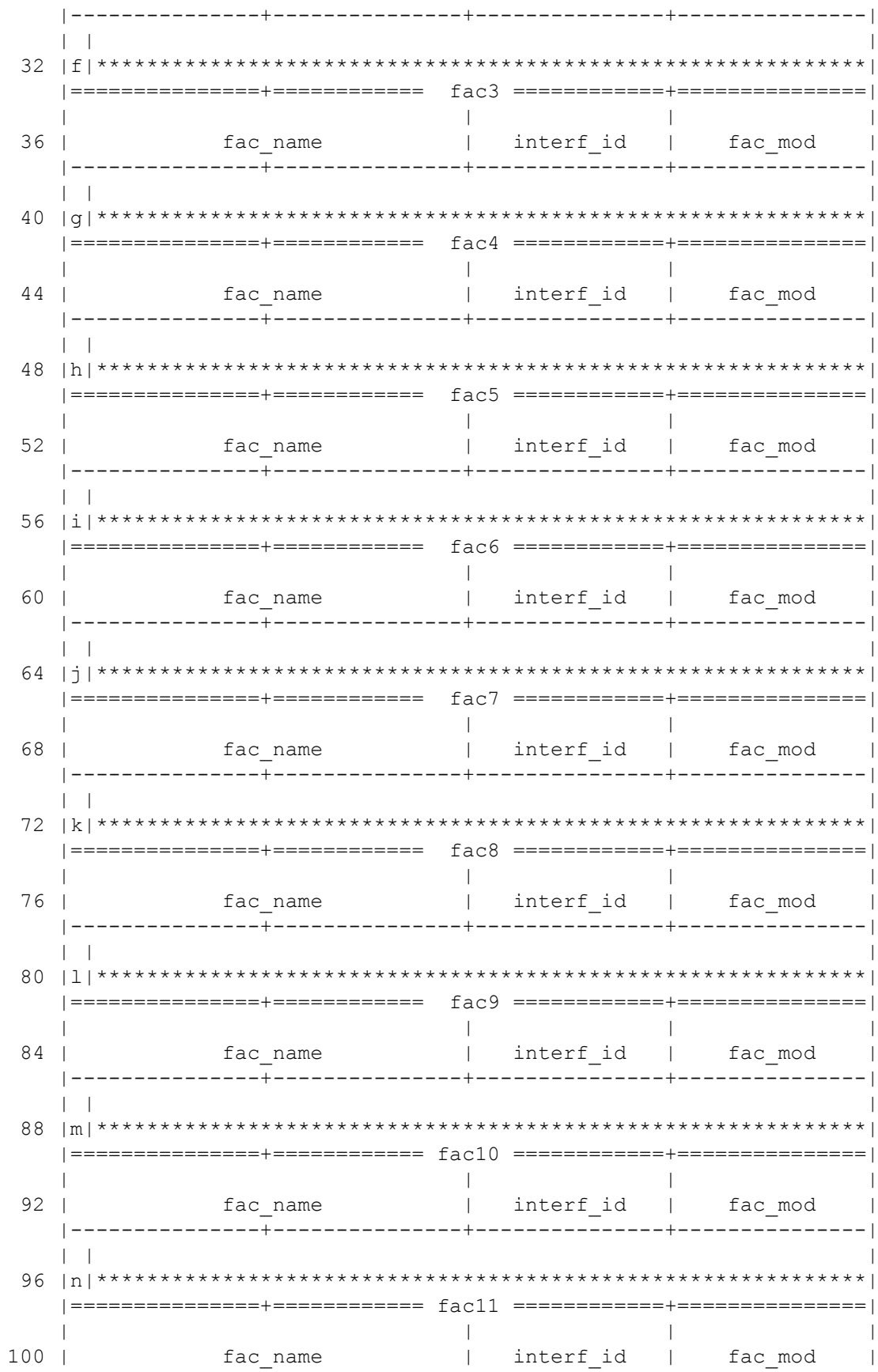
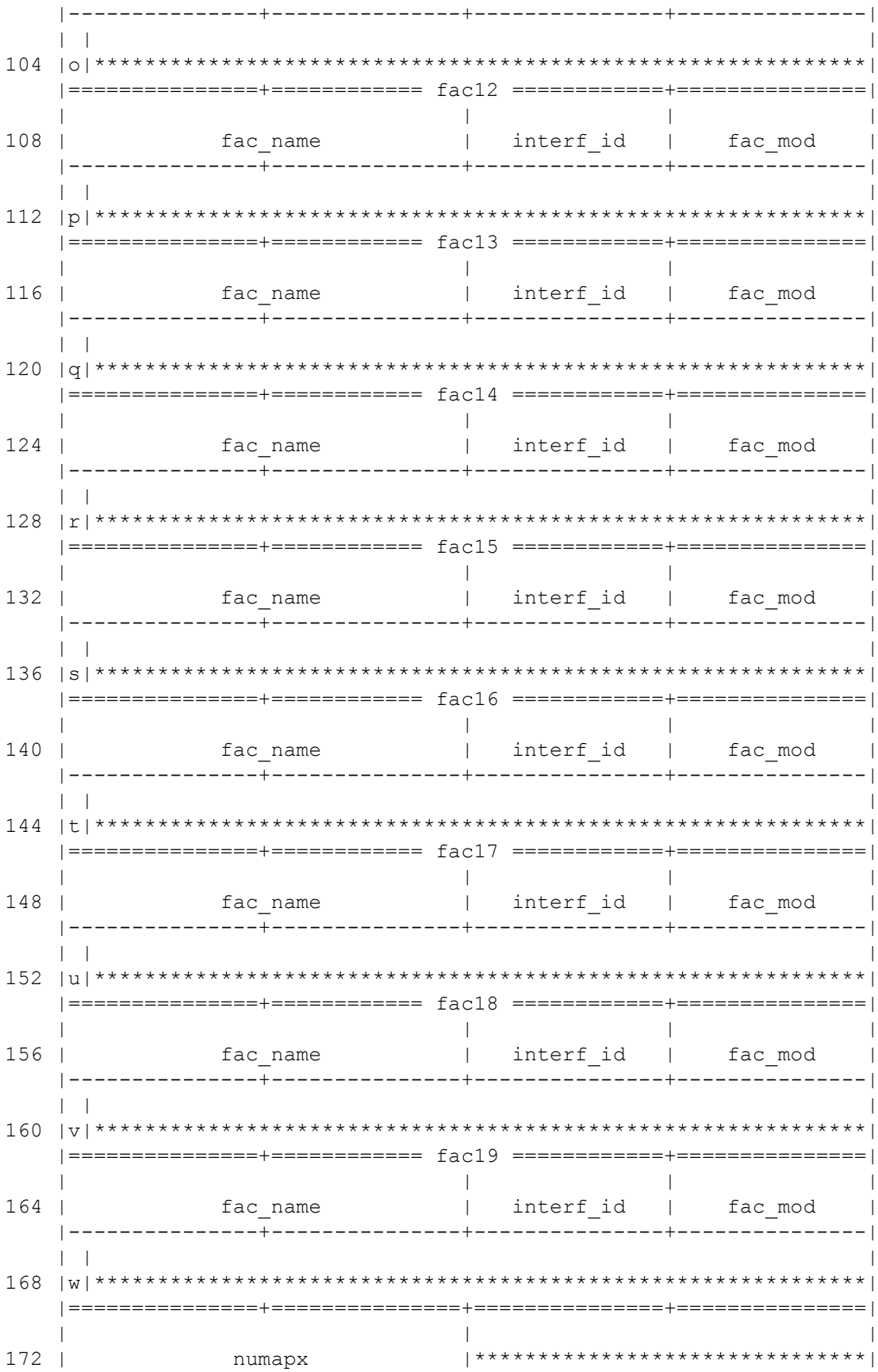

fac3
fac4
fac5
fac6
fac7
fac8
fac9
fac10
fac11
fac_name
interf_id
fac_mod


fac12
fac_name
interf_id
fac_mod
fac13
fac_name
interf_id
fac_mod
fac14
fac_name
interf_id
fac_mod
fac15
fac_name
interf_id
fac_mod
fac16
fac_name
interf_id
fac_mod
fac17
fac_name
interf_id
fac_mod
fac18
fac_name
interf_id
fac_mod
fac19
fac_name
interf_id
fac_mod
numapx

```
    |--------------+--------------+--------------+--------------|
       ( 176 bytes )

domain alPRIGRP   struct  (10 sub-attributes)
         prigrp      .6.fake      (ushort: 12)
 (a)     pri_type    .1fake       (enum)
 (b)     bchan_serv  .4fake       (enum)
 (c)     std_nsf_ie  .4fake       (enum)
         num_facs    .7.fake      (ushort: 5)
         num_bchans  .8.fake      (ushort: 9)
         dprim_port  .0fake       (struct)
             member      unsigned short (ushort)
             module      .0.fake      (ushort)
         dsec_port   .0fake       (struct)
             member      unsigned short (ushort)
             module      .0.fake      (ushort)
         facilities  .9.fake      (array [ 20 ] of .3fake )
             fac_name    unsigned short (ushort)
             interf_id   .1.fake      (ushort)
             fac_mod     .2.fake      (ushort)
 (d)         b_flag      .2fake       (enum)
         numapx      short        (short)

                    Structure Layout      alPRIGRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |                        |   |   |   |         |               |
  0 |         prigrp         | a | b | c | num_facs|    num_bchans   |
    |==============+=========  dprim_port =========+===============|
    |                              |               |               |
  4 |             member           |***************|     module    |
    |===============+========== dsec_port ==========+===============|
    |                              |               |               |
  8 |             member           |***************|     module    |
    |===============+======== facilities[0] ========+===============|
    |                              |               |               |
 12 |            fac_name          |   interf_id   |    fac_mod    |
    |--------------+--------------+--------------+--------------|
    | |                                                           |
 16 |d|***********************************************************|
    |===============+======== facilities[1] ========+===============|
    |                              |               |               |
 20 |            fac_name          |   interf_id   |    fac_mod    |
    |--------------+--------------+--------------+--------------|
    | |                                                           |
 24 |d|***********************************************************|
    |===============+======== facilities[2] ========+===============|
    |                              |               |               |
 28 |            fac_name          |   interf_id   |    fac_mod    |
    |--------------+--------------+--------------+--------------|
    | |                                                           |
 32 |d|***********************************************************|
    |===============+======== facilities[3] ========+===============|
```

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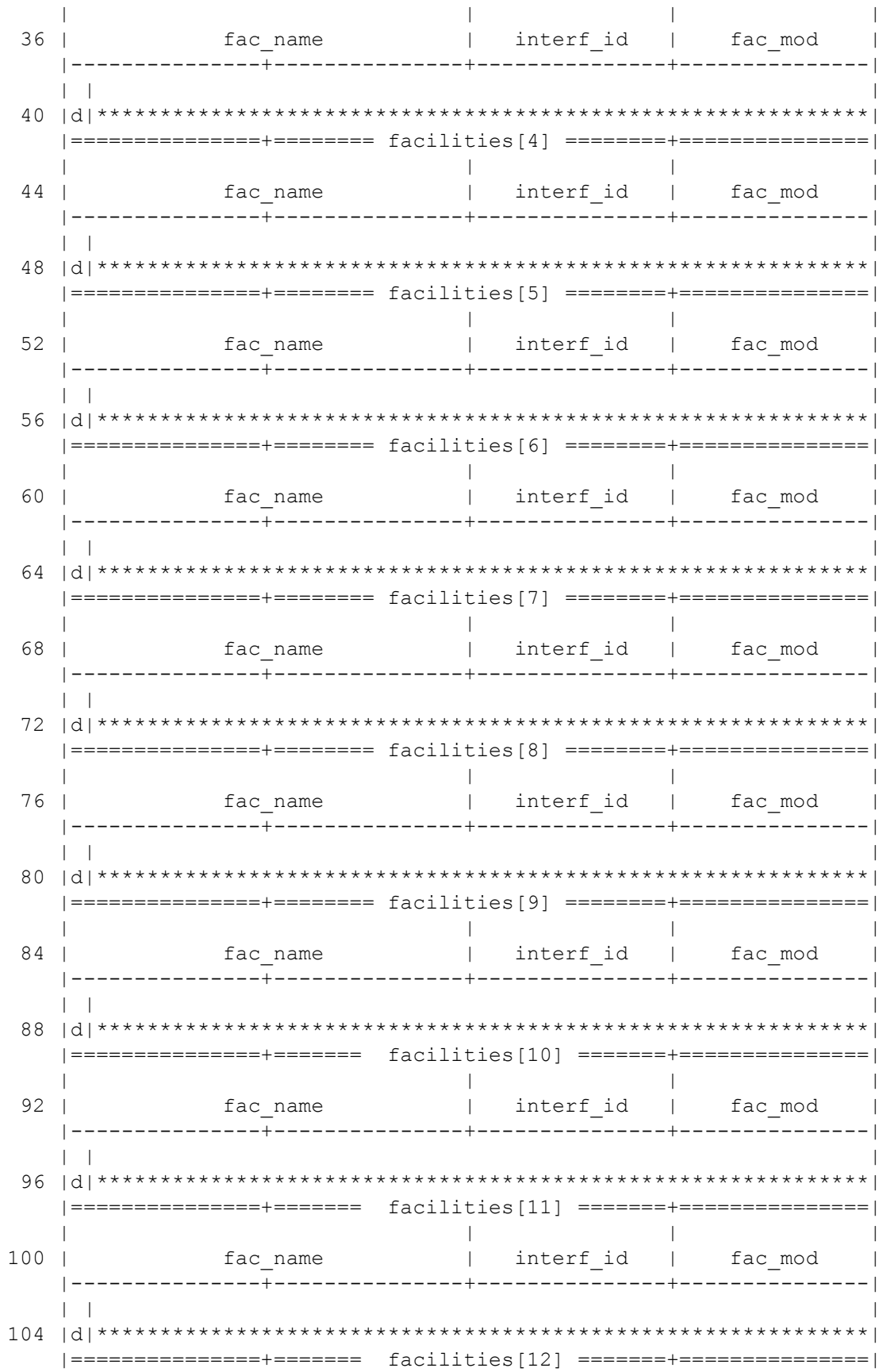


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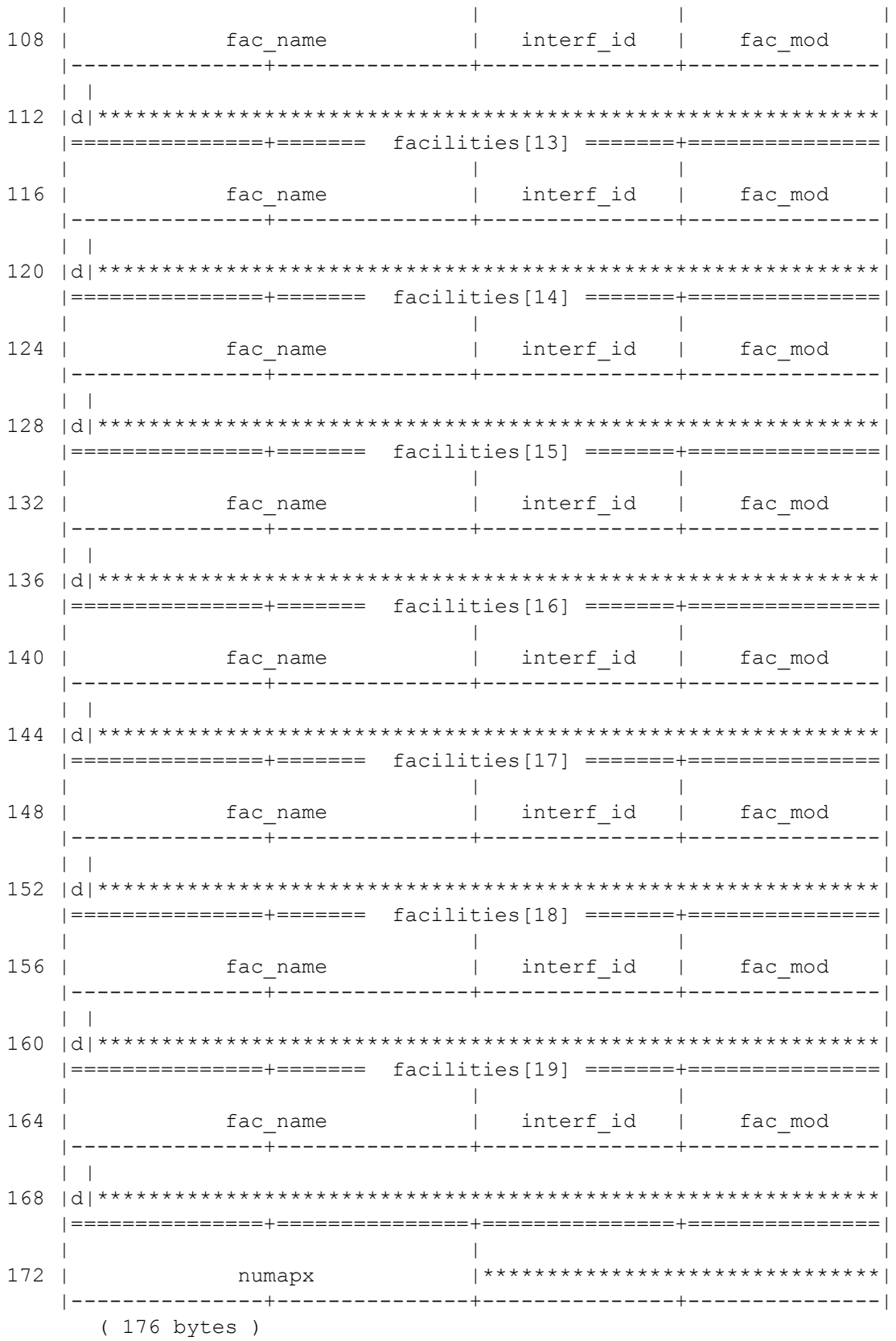


## 4. Population rules for RLprigrp

**Relation Description**

Primary rate interface (PRI) group
This relation defines on a per switching module (SM) basis, the PRI groups. Each group consists of one D-channel and up to 479 B-channels in up to 20 (MAXFACS) facilities (providing non-facility associated signaling) or two D-channels and up to 478 B-channels in up to 20 (MAXFACS) facilities (providing non-facility associated signaling with D-channel backup). In 5E9(1), the maximum number of facilities allowed is 20 and the parameter MAXFACS will indicate this.

**Attribute:**
prigrp
**Fullname:**
PRI group name
**Attribute Description:**
This is a unique number assigned to each PRI group in the office.

**Attribute:**
pri_type
**Fullname:**
PRI group type
**Attribute Description:**
This specifies whether this is an Custom PRI or a Bellcore Standard PRI.

**Attribute:**
bchan_serv
**Fullname:**
B Channel Service
**Attribute Description:**
SERVICE msg can be sent on B-channel for National PRI.

**Attribute:**
std_nsf_ie
**Fullname:**
Standard Network Specific Facility IE interpretation type
**Attribute Description:**
This boolean attribute, if set to MC_YES or MC_NULL, allows for National PRIs to have their network specific facility information element interpreted according to the Bellcore standards. For CUSTOM PRIs the only valid values for this attribute are MC_NO or MC_NULL, both of which mean a non-standard interpretation of this information element.

**Attribute:**
dprim_port
**Fullname:**

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D-channel PRIMARY port

**Attribute Description:**

This is the global port name of the PRIMARY D-channel in the PRI group.

**Attribute:**

dsec_port

**Fullname:**

D-channel SECONDARY port

**Attribute Description:**

This is the global port name of the SECONDARY D-channel in the PRI group.

**Attribute:**

num_bchans

**Fullname:**

Number of B-channels

**Attribute Description:**

This is the number of B-channels in this PRI group.

**Attribute:**

num_facs

**Fullname:**

Number of facilities

**Attribute Description:**

This is the number of facilities in this PRI group.

**Attribute:**

fac[*].interf_id

**Fullname:**

Interface ID for a facility

**Attribute Description:**

This is an array of up to MAXFACS interface ID's assigned to the facilities in this PRI group. They will be populated sequentially and there will be no holes in the array.

**Attribute:**

fac[*].fac_name

**Fullname:**

Facility name

**Attribute Description:**

This is an array of up to MAXFACS circuit names of the facilities assigned to this PRI group.

**Attribute:**

fac[*].fac_mod

**Fullname:**

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SM of a facility

**Attribute Description:**

This is an array of up to MAXFACS SMs of the assigned facilities in this PRI group. All SM values for a PRI group will be the same, since only intra-SM is supported.

**Attribute:**

fac[*].b_flag

**Fullname:**

B-channel indicator per facility

**Attribute Description:**

This is an array of up to MAXFACS B-channel flags, one per facility in this PRI group. The flag indicates whether the facility has B-channels assigned to the PRI group or not.

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# PRIM_DNA

## 1. Description

This static relation is populated in ISDN SMs containing any type of standard ISDN terminal. The relation stores the default bearer capability DN Appearance ID ranges for the standard terminals primary TNs (CKTTN, ODBTN, or DPKTTN).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16382 |
| expected tuples in relation | 13 |
| density | 28 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | TMprim_dna |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
PRIM_DNA    relid = 2056  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     uspid       DMUSPID      (struct) <--- key
         digcnt      DMDCNT18     (uchar: 5)
         dig1        DMBCD        (ushort: 4)
         dig2        DMBCD        (ushort: 4)
         dig3        DMBCD        (ushort: 4)
         dig4        DMBCD        (ushort: 4)
         dig5        DMBCD        (ushort: 4)
         dig6        DMBCD        (ushort: 4)
         dig7        DMBCD        (ushort: 4)
         dig8        DMBCD        (ushort: 4)
         dig9        DMBCD        (ushort: 4)
         dig10       DMBCD        (ushort: 4)
         dig11       DMBCD        (ushort: 4)
         dig12       DMBCD        (ushort: 4)
         dig13       DMBCD        (ushort: 4)
         dig14       DMBCD        (ushort: 4)
         dig15       DMBCD        (ushort: 4)
         dig16       DMBCD        (ushort: 4)
         dig17       DMBCD        (ushort: 4)
         dig18       DMBCD        (ushort: 4)
     spare1      DMUSHORT     (ushort)
     lo_spch     DMCALLAP     (uchar: 8)
     hi_spch     DMCALLAP     (uchar: 8)
     lo_audio    DMCALLAP     (uchar: 8)
     hi_audio    DMCALLAP     (uchar: 8)
     lo_64kbc    DMCALLAP     (uchar: 8)
     hi_64kbc    DMCALLAP     (uchar: 8)
     lo_56kbc    DMCALLAP     (uchar: 8)
     hi_56kbc    DMCALLAP     (uchar: 8)
     lo_odb      DMCALLAP     (uchar: 8)
     hi_odb      DMCALLAP     (uchar: 8)
```

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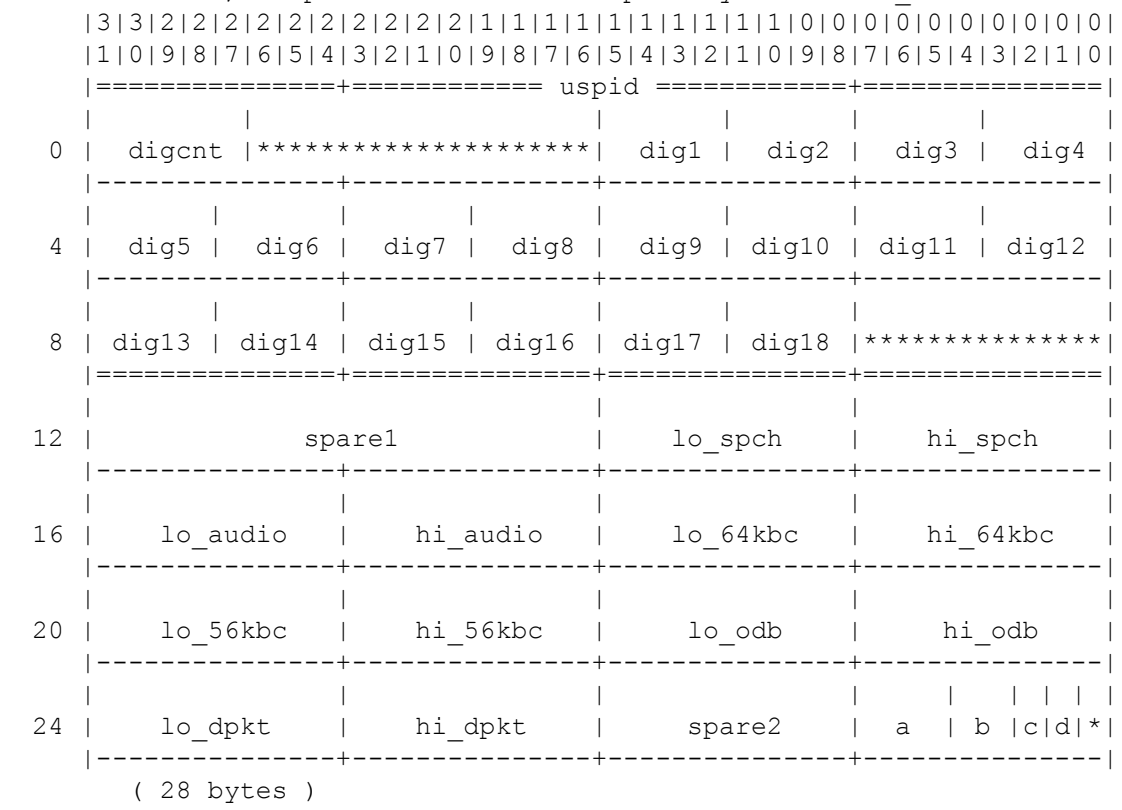
```
    lo_dpkt     DMCALLAP     (uchar: 8)
    hi_dpkt     DMCALLAP     (uchar: 8)
    spare2      DMUCHAR      (uchar)
(a) spare3      DMUNS3       (ushort: 3)
(b) spare4      DMUNS2       (ushort: 2)
(c) spare5      DMBOOL       (enum: 1)
(d) spare6      DMBOOL       (enum: 1)
```

User, Compacted and Stored Tuple Layout PRIM_DNA




( 28 bytes )

## 4. Population rules for RLprim_dna

### Relation Description

Primary DN Standard ISDN Terminal Default DN Appearances
This relation description must first begin with a definition of 'primary DN' as it is used in the context of this relation and the Automatic Terminal Setup (ATS) operational capability. A primary DN (or TN) can be a Circuit Switched TN (CKTTN), a On-Demand B-Channel Packet Switched TN (ODBTN) or a D-Channel Packet Switched TN (DPKTTN). Also, a primary DN could be the listed TN of a Multi-Line Hunt Group (MLHG) if the MLHG member does not have an individual TN defined.

This relation stores information about the default bearer capability assigned to the primary DNs of standard ISDN terminals. This information is stored in the twelve lo_* and hi_* attributes. This relation must not contain tuples for Custom-BRI terminals.

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The default bearer channel information is used during the Automatic Terminal Setup (ATS) terminal download. The six possible default bearer capabilities for Primary DNs are grouped into Circuit Switched Voice (CSV), Circuit Switched Data (CSD) or Packet Mode Data (PMD) as follows:

CSV SPEECH (lo_spch / hi_spch) - NOT VALID FOR EKTS_CACH,
CSV 3.1 Khz AUDIO (lo_audio / hi_audio) - NOT VALID FOR EKTS_CACH,
CSD 64Kbps on B-Channel (lo_64kbc / hi_64kbc),
CSD 56Kbps on B-Channel (lo_56kbc / hi_56kbc),
ODB B-Channel X.25 PMD (lo_odb / hi_odb),
DPKT D-Channel X.25 PMD (lo_dpkt / hi_dpkt)

For each type of bearer capability, there is a range of terminal DN Appearance IDs (up to 16 each for speech / 3.1 KHz audio CSV and 56K bps / 64K bps CSD, and up to four each for ODB PMD / DPKT PMD) that may be assigned (depending on the specific type of standard terminal). Each terminal DN Appearance ID in this range will have that default bearer capability assigned.
The following descriptions detail how different types of standard terminals may be provisioned in this relation and give a maximum number of DN Appearance IDs for that terminal type:
Standard Additional Call Offering (ACO) Terminals:

0 thru 16 speech CSV DN Appearance IDs (up to RLis_line.csv_climit)
0 thru 16 audio CSV DN Appearance IDs (up to RLis_line.csv_climit)
0 thru 16 56k CSD DN Appearance IDs (up to RLis_line.csd_climit)
0 thru 16 64k CSD DN Appearance IDs (up to RLis_line.csd_climit)
0 thru 4 ODB PMD DN Appearance IDs (see attributes for TN limitations)
0 thru 4 DPKT PMD DN Appearance IDs (see attributes for TN limitations)

No Secondary DN Appearance IDs
Maximum number of ACO DN Appearance IDs =
(16 + 16 + 16 + 16 + 4 + 4 + 0) = 72

Standard BASIC CALL Terminals:
0 thru 16 speech CSV DN Appearance IDs (up to RLis_line.csv_climit)
0 thru 16 audio CSV DN Appearance IDs (up to RLis_line.csv_climit)
0 thru 16 56k CSD DN Appearance IDs (up to RLis_line.csd_climit)
0 thru 16 64k CSD DN Appearance IDs (up to RLis_line.csd_climit)
0 thru 4 ODB PMD DN Appearance IDs (see attributes for TN limitations)
0 thru 4 DPKT PMD DN Appearance IDs (see attributes for TN limitations)

No Secondary DN Appearance IDs
Maximum number of BASIC CALL DN Appearance IDs =
(16 + 16 + 16 + 16 + 4 + 4 + 0) = 72

Standard EKTS_BASIC Terminals:
0 or 1 speech CSV DN Appearance IDs
0 or 1 audio CSV DN Appearance IDs
0 or 1 56k CSD DN Appearance IDs
0 or 1 64k CSD DN Appearance IDs

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```
 0 thru 4 ODB PMD DN Appearance IDs (see attributes for TN limitations)
 0 thru 4 DPKT PMD DN Appearance IDs (see attributes for TN limitations)
 0 thru 63 Secondary Speech DN Appearance IDs (in RLsec_dna)
 0 thru 63 Secondary 3.1 Khz Audio DN Appearance IDs (in RLsec_dna)
                Maximum number of EKTS_BASIC DN Appearance IDs =
                        (1 + 1 + 1 + 1 + 4 + 4 + 63 + 63) = 138
Standard EKTS_CACH Terminals:
 0 CSV (no speech or audio) DN Appearance IDs
 0 or 1 56k CSD DN Appearance IDs
 0 or 1 64k CSD DN Appearance IDs
 0 thru 4 ODB PMD DN Appearance IDs (see attributes for TN
                                     limitations)
 0 thru 4 DPKT PMD DN Appearance IDs (see attributes for TN
                                      limitations)
        No Secondary DN Appearance IDs
                Maximum number of EKTS_CACH DN Appearance IDs =
                        (0 + 0 + 1 + 1 + 4 + 4 ) = 10
        NOTE: All circuit switched call appearances are in RLtermkydn!
```

**Attribute:**
uspid
**Fullname:**
Standard DSL uspid
**Attribute Description:**
This attribute contains the standard USPID value of the Primary DNs for these default bearer capabilities. There must be a tuple in RLspid with the RLspid.uspid attribute matching this attribute. This key will allow one tuple to exist for every standard terminal port/party provisioned on this SM.

**Attribute:**
uspid.digcnt
**Fullname:**
uspid digit count
**Attribute Description:**
Contains the digit count for sub-attributes dig1 thru dig18.

**Attribute:**
uspid.dig1
**Fullname:**
First digit of uspid
**Attribute Description:**
This attribute contains the first digit of the uspid.

**Attribute:**
uspid.dig2
**Fullname:**
Second digit of uspid
**Attribute Description:**

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This attribute contains the Second digit of the uspid.

**Attribute:**
uspid.dig3
**Fullname:**
Third digit of uspid
**Attribute Description:**
This attribute contains the Third digit of the uspid.

**Attribute:**
uspid.dig4
**Fullname:**
Fourth digit of uspid
**Attribute Description:**
This attribute contains the Fourth digit of the uspid.

**Attribute:**
uspid.dig5
**Fullname:**
Fifth digit of uspid
**Attribute Description:**
This attribute contains the Fifth digit of the uspid.

**Attribute:**
uspid.dig6
**Fullname:**
Sixth digit of uspid
**Attribute Description:**
This attribute contains the Sixth digit of the uspid.

**Attribute:**
uspid.dig7
**Fullname:**
Seventh digit of uspid
**Attribute Description:**
This attribute contains the Seventh digit of the uspid.

**Attribute:**
uspid.dig8
**Fullname:**
Eighth digit of uspid
**Attribute Description:**
This attribute contains the Eighth digit of the uspid.

**Attribute:**
uspid.dig9

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**Fullname:**
Ninth digit of uspid
**Attribute Description:**
This attribute contains the Ninth digit of the uspid.

**Attribute:**
uspid.dig10
**Fullname:**
Tenth digit of uspid
**Attribute Description:**
This attribute contains the Tenth digit of the uspid.

**Attribute:**
uspid.dig11
**Fullname:**
Eleventh digit of uspid
**Attribute Description:**
This attribute contains the Eleventh digit of the uspid.

**Attribute:**
uspid.dig12
**Fullname:**
Twelfth digit of uspid
**Attribute Description:**
This attribute contains the Twelfth digit of the uspid.

**Attribute:**
uspid.dig13
**Fullname:**
Thirteenth digit of uspid
**Attribute Description:**
This attribute contains the Thirteenth digit of the uspid.

**Attribute:**
uspid.dig14
**Fullname:**
Fourteenth digit of uspid
**Attribute Description:**
This attribute contains the Fourteenth digit of the uspid.

**Attribute:**
uspid.dig15
**Fullname:**
Fifteenth digit of uspid
**Attribute Description:**
This attribute contains the Fifteenth digit of the uspid.

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**Attribute:**
uspid.dig16
**Fullname:**
Sixteenth digit of uspid
**Attribute Description:**
This attribute contains the Sixteenth digit of the uspid.

**Attribute:**
uspid.dig17
**Fullname:**
Seventeenth digit of uspid
**Attribute Description:**
This attribute contains the Seventeenth digit of the uspid.

**Attribute:**
uspid.dig18
**Fullname:**
Eighteenth digit of uspid
**Attribute Description:**
This attribute contains the Eighteenth digit of the uspid.

**Attribute:**
lo_spch
**Fullname:**
Lowest Speech Bearer Capability DN Appearance ID
**Attribute Description:**
This attribute contains the DN Appearance ID number (DNA) that is the lowest Speech CSV DNA of this primary DN for the default bearer capability of Speech Circuit Switched Voice. The attribute may be populated only for BASIC CALL, ACO or EKTS_BASIC terminals. This attribute must always be populated with zero for EKTS_CACH terminals.

For every tuple in RLprim_dna, this attributes value may only appear once for all bearer capability lo - hi attributes (that is, this number cannot be included in the ranges of any other bearer capabilities for this RLprim_dna tuple). EKTS_BASIC terminals also have a coupling with this relation and RLsec_dna for any secondary DN Appearance IDs. For every tuple in RLsec_dna that has its lport value equal to RLspid.ckt_lport, any RLsec_dna.lo*/hi* value cannot appear in any bearer capability lo - hi attribute ranges of this relation. For BASIC CALL and ACO terminals, the number of DN Appearance IDs that can span the lo_spch to hi_spch range is limited by the value of RLis_line.csv_climit and have a maximum range of 16 DN Appearance IDs.

For EKTS_BASIC terminals, the number of DN Appearance IDs that can span the lo_spch to hi_spch range is 1 (that is, lo_spch must

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equal hi_spch).

**Attribute:**
hi_spch
**Fullname:**
Highest Speech Bearer Capability DN Appearance ID
**Attribute Description:**
This attribute contains the DN Appearance ID number (DNA) that is the highest Speech CSV DNA of this primary DN for the default bearer capability of Speech Circuit Switched Voice. The attribute may be populated only for BASIC CALL, ACO or EKTS_BASIC terminals. This attribute must always be populated with zero for EKTS_CACH terminals.

For every tuple in RLprim_dna, this attributes value may only appear once for all bearer capability lo - hi attributes (that is, this number cannot be included in the ranges of any other bearer capabilities for this RLprim_dna tuple). EKTS_BASIC terminals also have a coupling with this relation and RLsec_dna for any secondary DN Appearance IDs. For every tuple in RLsec_dna that has its lport value equal to RLspid.ckt_lport, any RLsec_dna.lo*/hi* value cannot appear in any bearer capability lo - hi attribute ranges of this relation. For BASIC CALL and ACO terminals, the number of DN Appearance IDs that can span the lo_spch to hi_spch range is limited by the value of RLis_line.csv_climit and have a maximum range of 16 DN Appearance IDs.

For EKTS_BASIC terminals, the number of DN Appearance IDs that can span the lo_spch to hi_spch range is 1 (that is, lo_spch must equal hi_spch).

**Attribute:**
lo_audio
**Fullname:**
Lowest Audio Bearer Capability DN Appearance ID
**Attribute Description:**
This attribute contains the DN Appearance ID number (DNA) that is the lowest Audio CSV DNA of this primary DN for the default bearer capability of 3.1 Khz Audio Circuit Switched Voice. The attribute may be populated only for BASIC CALL, ACO or EKTS_BASIC terminals. This attribute must always be populated with zero for EKTS_CACH terminals.

For every tuple in RLprim_dna, this attributes value may only appear once for all bearer capability lo - hi attributes (that is, this number cannot be included in the ranges of any other bearer capabilities for this RLprim_dna tuple). EKTS_BASIC terminals also have a coupling with this relation and RLsec_dna for any secondary DN Appearance IDs. For every tuple in RLsec_dna that has its lport value equal to

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RLspid.ckt_lport, any RLsec_dna.lo*/hi* value cannot appear in any bearer capability lo - hi attribute ranges of this relation. For BASIC CALL and ACO terminals, the number of DN Appearance IDs that can span the lo_audio to hi_audio range is limited by the value of RLis_line.csv_climit and have a maximum range of 16 DN Appearance IDs.
For EKTS_BASIC terminals, the number of DN Appearance IDs that can span the lo_audio to hi_audio range is 1 (that is, lo_audio must equal hi_audio).

**Attribute:**
hi_audio
**Fullname:**
Highest Audio Bearer Capability DN Appearance ID
**Attribute Description:**
This attribute contains the DN Appearance ID number (DNA) that is the highest Audio CSV DNA of this primary DN for the default bearer capability of 3.1 Khz Audio Circuit Switched Voice. The attribute may be populated only for BASIC CALL, ACO or EKTS_BASIC terminals. This attribute must always be populated with zero for EKTS_CACH terminals.

For every tuple in RLprim_dna, this attributes value may only appear once for all bearer capability lo - hi attributes (that is, this number cannot be included in the ranges of any other bearer capabilities for this RLprim_dna tuple). EKTS_BASIC terminals also have a coupling with this relation and RLsec_dna for any secondary DN Appearance IDs. For every tuple in RLsec_dna that has its lport value equal to RLspid.ckt_lport, any RLsec_dna.lo*/hi* value cannot appear in any bearer capability lo - hi attribute ranges of this relation. For BASIC CALL and ACO terminals, the number of DN Appearance IDs that can span the lo_audio to hi_audio range is limited by the value of RLis_line.csv_climit and have a maximum range of 16 DN Appearance IDs.

For EKTS_BASIC terminals, the number of DN Appearance IDs that can span the lo_audio to hi_audio range is 1 (that is, lo_audio must equal hi_audio).

**Attribute:**
lo_64kbc
**Fullname:**
Lowest 64K bps Bearer Capability DN Appearance ID
**Attribute Description:**
This attribute contains the DN Appearance ID number (DNA) that is the lowest 64K CSD DNA of this primary DN for the default bearer capability of 64K bps Circuit Switched Data. The attribute may be populated for all types of standard terminals. For every tuple in RLprim_dna, this attributes value may only appear once for all bearer capability lo - hi attributes

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(that is, this number cannot be included in the ranges of any other bearer capabilities for this RLprim_dna tuple). EKTS_BASIC terminals also have a coupling with this relation and RLsec_dna for any secondary DN Appearance IDs. For every tuple in RLsec_dna that has its lport value equal to RLspid.ckt_lport, any RLsec_dna.lo*/hi* value cannot appear in any bearer capability lo - hi attribute ranges of this relation. For BASIC CALL and ACO terminals, the number of DN Appearance IDs that can span the lo_64kbc to hi_64kbc range is limited by the value of RLis_line.csd_climit and have a maximum range of 16 DN Appearance IDs.

For EKTS_BASIC and EKTS_CACH terminals, the number of DN Appearance IDs that can span the lo_64kbc to hi_64kbc range is 1 (that is, lo_64kbc must equal hi_64kbc).

**Attribute:**
hi_64kbc
**Fullname:**
Highest 64K bps Bearer Capability DN Appearance ID
**Attribute Description:**
This attribute contains the DN Appearance ID number (DNA) that is the highest 64K CSD DNA of this primary DN for the default bearer capability of 64K bps Circuit Switched Data. The attribute may be populated for all types of standard terminals. For every tuple in RLprim_dna, this attributes value may only appear once for all bearer capability lo - hi attributes (that is, this number cannot be included in the ranges of any other bearer capabilities for this RLprim_dna tuple). EKTS_BASIC terminals also have a coupling with this relation and RLsec_dna for any secondary DN Appearance IDs. For every tuple in RLsec_dna that has its lport value equal to RLspid.ckt_lport, any RLsec_dna.lo*/hi* value cannot appear in any bearer capability lo - hi attribute ranges of this relation. For BASIC CALL and ACO terminals, the number of DN Appearance IDs that can span the lo_64kbc to hi_64kbc range is limited by the value of RLis_line.csd_climit and have a maximum range of 16 DN Appearance IDs.

For EKTS_BASIC and EKTS_CACH terminals, the number of DN Appearance IDs that can span the lo_64kbc to hi_64kbc range is 1 (that is, lo_64kbc must equal hi_64kbc).

**Attribute:**
lo_56kbc
**Fullname:**
Lowest 56K bps Bearer Capability DN Appearance ID
**Attribute Description:**
This attribute contains the DN Appearance ID number (DNA) that is the lowest 56K CSD DNA of this primary DN for the default bearer capability of 56K bps Circuit Switched Data. The

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attribute may be populated for all types of standard terminals. For every tuple in RLprim_dna, this attributes value may only appear once for all bearer capability lo - hi attributes (that is, this number cannot be included in the ranges of any other bearer capabilities for this RLprim_dna tuple). EKTS_BASIC terminals also have a coupling with this relation and RLsec_dna for any secondary DN Appearance IDs. For every tuple in RLsec_dna that has its lport value equal to RLspid.ckt_lport, any RLsec_dna.lo*/hi* value cannot appear in any bearer capability lo - hi attribute ranges of this relation. For BASIC CALL and ACO terminals, the number of DN Appearance IDs that can span the lo_56kbc to hi_56kbc range is limited by the value of RLis_line.csd_climit and have a maximum range of 16 DN Appearance IDs.

For EKTS_BASIC and EKTS_CACH terminals, the number of DN Appearance IDs that can span the lo_56kbc to hi_56kbc range is 1 (that is, lo_56kbc must equal hi_56kbc).

**Attribute:**
hi_56kbc
**Fullname:**
Highest 56K bps Bearer Capability DN Appearance ID
**Attribute Description:**
This attribute contains the DN Appearance ID number (DNA) that is the highest 56K CSD DNA of this primary DN for the default bearer capability of 56K bps Circuit Switched Data. The attribute may be populated for all types of standard terminals. For every tuple in RLprim_dna, this attributes value may only appear once for all bearer capability lo - hi attributes (that is, this number cannot be included in the ranges of any other bearer capabilities for this RLprim_dna tuple). EKTS_BASIC terminals also have a coupling with this relation and RLsec_dna for any secondary DN Appearance IDs. For every tuple in RLsec_dna that has its lport value equal to RLspid.ckt_lport, any RLsec_dna.lo*/hi* value cannot appear in any bearer capability lo - hi attribute ranges of this relation. For BASIC CALL and ACO terminals, the number of DN Appearance IDs that can span the lo_56kbc to hi_56kbc range is limited by the value of RLis_line.csd_climit and have a maximum range of 16 DN Appearance IDs.

For EKTS_BASIC and EKTS_CACH terminals, the number of DN Appearance IDs that can span the lo_56kbc to hi_56kbc range is 1 (that is, lo_56kbc must equal hi_56kbc).

**Attribute:**
lo_odb
**Fullname:**
Lowest ODB PKT Bearer Capability DN Appearance ID
**Attribute Description:**

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This attribute contains the DN Appearance ID number (DNA) that is the lowest On-Demand B-Channel packet (ODB) DNA of this ODB TN or the listed TN of the MLHG if the individual TN does not exist. The DNA is for the default bearer capability type ODB Packet Mode Data. The attribute may be populated for all types of standard terminals.

For every tuple in RLprim_dna, this attributes value may only appear once for all bearer capability lo - hi attributes (that is, this number cannot be included in the ranges of any other bearer capabilities for this RLprim_dna tuple). EKTS_BASIC terminals also have a coupling with this relation and RLsec_dna for any secondary DN Appearance IDs. For every tuple in RLsec_dna that has its lport value equal to RLspid.ckt_lport, any RLsec_dna.lo*/hi* value cannot appear in any bearer capability lo - hi attribute ranges of this relation. The maximum number of DN Appearance IDs that can span the lo_odb to hi_odb range is 4. There is a coupling with these two attributes and the lo_dpkt / hi_dpkt attributes as follows:

If only individual ODB TN assigned (no individual DPKT TN assigned), range = 0 thru 4 for ODB attributes ((hi_odb - lo_odb) < 4).
If only individual DPKT TN assigned (no individual ODB TN assigned), range = 0 thru 4 for DPKT attributes ((hi_dpkt - lo_dpkt) < 4 ).
If individual DPKT TN and individual ODB TN assigned with same TN, range = 0 thru 4 for all four attributes: ( (hi_odb - lo_odb) + (hi_dpkt - lo_dpkt) < 4 ).
If individual DPKT TN and individual ODB TN assigned with different TNs, range = 0 thru 4 for each type {that is, ( (hi_odb - lo_odb) < 3 ) and ( (hi_dpkt - lo_dpkt) < 3 ) }.
If DPKT user and ODB user are members of the same MLHG and no DPKT or ODB individual TN is assigned, then range = 0 thru 4 for all four attributes ( (hi_odb - lo_odb) + (hi_dpkt - lo_dpkt) < 4 ).

**Attribute:**
hi_odb
**Fullname:**
Highest ODB PKT Bearer Capability DN Appearance ID
**Attribute Description:**
This attribute contains the DN Appearance ID number (DNA) that is the highest On-Demand B-Channel packet (ODB) DNA of this ODB TN or the listed TN of the MLHG if the individual TN does not exist. The DNA is for the default bearer capability type ODB Packet Mode Data. The attribute may be populated for all types of standard terminals.

For every tuple in RLprim_dna, this attributes value may only appear once for all bearer capability lo - hi attributes (that is, this number cannot be included in the ranges of any other bearer capabilities for this RLprim_dna tuple). EKTS_BASIC terminals also have a coupling with this relation and RLsec_dna for any secondary DN Appearance IDs. For every tuple in RLsec_dna that has its lport value equal to

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RLspid.ckt_lport, any RLsec_dna.lo*/hi* value cannot appear in any bearer capability lo - hi attribute ranges of this relation. The maximum number of DN Appearance IDs that can span the lo_odb to hi_odb range is 4. There is a coupling with these two attributes and the lo_dpkt / hi_dpkt attributes as follows:

If only individual ODB TN assigned (no individual DPKT TN assigned), range = 0 thru 4 for ODB attributes ((hi_odb - lo_odb) < 4).
If only individual DPKT TN assigned (no individual ODB TN assigned), range = 0 thru 4 for DPKT attributes ((hi_dpkt - lo_dpkt) < 4).
If individual DPKT TN and individual ODB TN assigned with same TN, range = 0 thru 4 for all four attributes: ( (hi_odb - lo_odb) + (hi_dpkt - lo_dpkt) < 4 ).
If individual DPKT TN and individual ODB TN assigned with different TNs, range = 0 thru 4 for each type {that is, ((hi_odb - lo_odb) < 3 ) and ( (hi_dpkt - lo_dpkt) < 3)}.
If DPKT user and ODB user are members of the same MLHG and no DPKT or ODB individual TN is assigned, then range = 0 thru 4 for all four attributes ( (hi_odb - lo_odb) + (hi_dpkt - lo_dpkt) < 4).

**Attribute:**

lo_dpkt

**Fullname:**

Lowest D-Channel PKT Bearer Capability DN Appearance ID

**Attribute Description:**

This attribute contains the DN Appearance ID number (DNA) that is the lowest D-Channel packet (DPKT) DNA of this DPKT TN or the listed TN of the MLHG if the individual TN does not exist. The DNA is for the default bearer capability type DPKT Packet Mode Data. The attribute may be populated for all types of standard terminals.

For every tuple in RLprim_dna, this attributes value may only appear once for all bearer capability lo - hi attributes (that is, this number cannot be included in the ranges of any other bearer capabilities for this RLprim_dna tuple). EKTS_BASIC terminals also have a coupling with this relation and RLsec_dna for any secondary DN Appearance IDs. For every tuple in RLsec_dna that has its lport value equal to RLspid.ckt_lport, any RLsec_dna.lo*/hi* value cannot appear in any bearer capability lo - hi attribute ranges of this relation. The maximum number of DN Appearance IDs that can span the lo_dpkt to hi_dpkt range is 4. There is a coupling with these two attributes and the lo_odb / hi_odb attributes as follows:

If only individual ODB TN assigned (no individual DPKT TN assigned), range = 0 thru 4 for ODB attributes ((hi_odb - lo_odb) < 4).
If only individual DPKT TN assigned (no individual ODB TN assigned), range = 0 thru 4 for DPKT attributes ((hi_dpkt - lo_dpkt) < 4 ).
If individual DPKT TN and individual ODB TN assigned with same TN, range = 0 thru 4 for all four attributes: ( (hi_odb - lo_odb) + (hi_dpkt - lo_dpkt) < 4 ).

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If individual DPKT TN and individual ODB TN assigned with different TNs, range = 0 thru 4 for each type {that is, ( (hi_odb - lo_odb) < 3 ) and ( (hi_dpkt - lo_dpkt) < 3 ) }.
If DPKT user and ODB user are members of the same MLHG and no DPKT or ODB individual TN is assigned, then range = 0 thru 4 for all four attributes ( (hi_odb - lo_odb) + (hi_dpkt - lo_dpkt) < 4 ).

**Attribute:**
hi_dpkt
**Fullname:**
Highest D-Channel PKT Bearer Capability DN Appearance ID
**Attribute Description:**
This attribute contains the DN Appearance ID number (DNA) that is the highest D-Channel packet (DPKT) DNA of this DPKT TN or the listed TN of the MLHG if the individual TN does not exist. The DNA is for the default bearer capability type DPKT Packet Mode Data. The attribute may be populated for all types of standard terminals.

For every tuple in RLprim_dna, this attributes value may only appear once for all bearer capability lo - hi attributes (that is, this number cannot be included in the ranges of any other bearer capabilities for this RLprim_dna tuple). EKTS_BASIC terminals also have a coupling with this relation and RLsec_dna for any secondary DN Appearance IDs. For every tuple in RLsec_dna that has its lport value equal to RLspid.ckt_lport, any RLsec_dna.lo*/hi* value cannot appear in any bearer capability lo - hi attribute ranges of this relation. The maximum number of DN Appearance IDs that can span the lo_dpkt to hi_dpkt range is 4. There is a coupling with these two attributes and the lo_odb / hi_odb attributes as follows:

If only individual ODB TN assigned (no individual DPKT TN assigned), range = 0 thru 4 for ODB attributes ((hi_odb - lo_odb) < 4).
If only individual DPKT TN assigned (no individual ODB TN assigned), range = 0 thru 4 for DPKT attributes ((hi_dpkt - lo_dpkt) < 4 ).
If individual DPKT TN and individual ODB TN assigned with same TN, range = 0 thru 4 for all four attributes: ( (hi_odb - lo_odb) + (hi_dpkt - lo_dpkt) < 4 ).
If individual DPKT TN and individual ODB TN assigned with different TNs, range = 0 thru 4 for each type {that is, ( (hi_odb - lo_odb) < 3 ) and ( (hi_dpkt - lo_dpkt) < 3 ) }.
If DPKT user and ODB user are members of the same MLHG and no DPKT or ODB individual TN is assigned, then range = 0 thru 4 for all four attributes ( (hi_odb - lo_odb) + (hi_dpkt - lo_dpkt) < 4 ).

**Attribute:**
spare1
**Fullname:**
spare unsigned short

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**Attribute Description:**
spare unsigned short

**Attribute:**
spare2
**Fullname:**
spare unsigned character
**Attribute Description:**
spare unsigned character

**Attribute:**
spare3
**Fullname:**
spare unsigned 3-bits
**Attribute Description:**
spare unsigned 3-bits

**Attribute:**
spare4
**Fullname:**
spare unsigned 2-bits
**Attribute Description:**
spare unsigned 2-bits

**Attribute:**
spare5
**Fullname:**
spare boolean
**Attribute Description:**
spare boolean

**Attribute:**
spare6
**Fullname:**
spare boolean
**Attribute Description:**
spare boolean

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# PRISG_G

## 1. Description

This is a child storage relation for OPVIEW RLprisrvgp.G . This relation can store 5 groups of 20 Primary Rate Interface (PRI) groups and their associated active status bits.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4000 |
| expected number of tuples | 200 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LP |
| application type | RCMAP |
| relation type | DBSTORAGE |
| ks key store | DBNO |
| foldtype | DBGC31 |
| gkidxrel reverse index | rlPRISG_I |

## 3. Field Layout

```
PRISG_G     relid = 2910  DBSTORAGE  DBACC_GK    DBPRAM    LP      RCMAP
     gkPRISG_G   DMGK14       (ulong: 14) <--- key, not stored
     priact0     DMPRIACT     (struct)
         prigrp      DMPRIGRP     (ushort: 12)
 (a)     active      DMBOOL       (enum: 1)
     priact1     DMPRIACT     (struct)
         prigrp      DMPRIGRP     (ushort: 12)
 (b)     active      DMBOOL       (enum: 1)
     priact2     DMPRIACT     (struct)
         prigrp      DMPRIGRP     (ushort: 12)
 (c)     active      DMBOOL       (enum: 1)
     priact3     DMPRIACT     (struct)
         prigrp      DMPRIGRP     (ushort: 12)
 (d)     active      DMBOOL       (enum: 1)
     priact4     DMPRIACT     (struct)
         prigrp      DMPRIGRP     (ushort: 12)
 (e)     active      DMBOOL       (enum: 1)
     priact5     DMPRIACT     (struct)
         prigrp      DMPRIGRP     (ushort: 12)
 (f)     active      DMBOOL       (enum: 1)
     priact6     DMPRIACT     (struct)
         prigrp      DMPRIGRP     (ushort: 12)
 (g)     active      DMBOOL       (enum: 1)
     priact7     DMPRIACT     (struct)
         prigrp      DMPRIGRP     (ushort: 12)
 (h)     active      DMBOOL       (enum: 1)
     priact8     DMPRIACT     (struct)
         prigrp      DMPRIGRP     (ushort: 12)
 (i)     active      DMBOOL       (enum: 1)
     priact9     DMPRIACT     (struct)
         prigrp      DMPRIGRP     (ushort: 12)
 (j)     active      DMBOOL       (enum: 1)
     priact10    DMPRIACT     (struct)
         prigrp      DMPRIGRP     (ushort: 12)
 (k)     active      DMBOOL       (enum: 1)
```

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```
    priact11    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(l)     active      DMBOOL       (enum: 1)
    priact12    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(m)     active      DMBOOL       (enum: 1)
    priact13    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(n)     active      DMBOOL       (enum: 1)
    priact14    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(o)     active      DMBOOL       (enum: 1)
    priact15    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(p)     active      DMBOOL       (enum: 1)
    priact16    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(q)     active      DMBOOL       (enum: 1)
    priact17    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(r)     active      DMBOOL       (enum: 1)
    priact18    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(s)     active      DMBOOL       (enum: 1)
    priact19    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(t)     active      DMBOOL       (enum: 1)
        User and Compacted Tuple Layout    PRISG_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 0 |*********************************|         gkPRISG_G             |
   |===============+=========== priact0 ===========+===============|
   |                       | |                                       |
 4 |         prigrp        |a|***************************************|
   |===============+=========== priact1 ===========+===============|
   |                       | |                                       |
 8 |         prigrp        |b|***************************************|
   |===============+=========== priact2 ===========+===============|
   |                       | |                                       |
12 |         prigrp        |c|***************************************|
   |===============+=========== priact3 ===========+===============|
   |                       | |                                       |
16 |         prigrp        |d|***************************************|
   |===============+=========== priact4 ===========+===============|
   |                       | |                                       |
20 |         prigrp        |e|***************************************|
   |===============+=========== priact5 ===========+===============|
   |                       | |                                       |
24 |         prigrp        |f|***************************************|
   |===============+=========== priact6 ===========+===============|
   |                       | |                                       |
28 |         prigrp        |g|***************************************|
```

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```
    |===============+========== priact7 ==========+===============|
    |                       | |                                   |
 32 |         prigrp        |h|***********************************|
    |===============+========== priact8 ==========+===============|
    |                       | |                                   |
 36 |         prigrp        |i|***********************************|
    |===============+========== priact9 ==========+===============|
    |                       | |                                   |
 40 |         prigrp        |j|***********************************|
    |===============+==========  priact10 =========+===============|
    |                       | |                                   |
 44 |         prigrp        |k|***********************************|
    |===============+==========  priact11 =========+===============|
    |                       | |                                   |
 48 |         prigrp        |l|***********************************|
    |===============+==========  priact12 =========+===============|
    |                       | |                                   |
 52 |         prigrp        |m|***********************************|
    |===============+==========  priact13 =========+===============|
    |                       | |                                   |
 56 |         prigrp        |n|***********************************|
    |===============+==========  priact14 =========+===============|
    |                       | |                                   |
 60 |         prigrp        |o|***********************************|
    |===============+==========  priact15 =========+===============|
    |                       | |                                   |
 64 |         prigrp        |p|***********************************|
    |===============+==========  priact16 =========+===============|
    |                       | |                                   |
 68 |         prigrp        |q|***********************************|
    |===============+==========  priact17 =========+===============|
    |                       | |                                   |
 72 |         prigrp        |r|***********************************|
    |===============+==========  priact18 =========+===============|
    |                       | |                                   |
 76 |         prigrp        |s|***********************************|
    |===============+==========  priact19 =========+===============|
    |                       | |                                   |
 80 |         prigrp        |t|***********************************|
    |===============+===============+===============+===============|
      ( 84 bytes )
    priact0     DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(a)     active      DMBOOL       (enum: 1)
    priact1     DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(b)     active      DMBOOL       (enum: 1)
    priact2     DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(c)     active      DMBOOL       (enum: 1)
    priact3     DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(d)     active      DMBOOL       (enum: 1)
    priact4     DMPRIACT     (struct)
```

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```
        prigrp      DMPRIGRP     (ushort: 12)
(e)     active      DMBOOL       (enum: 1)
    priact5     DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(f)     active      DMBOOL       (enum: 1)
    priact6     DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(g)     active      DMBOOL       (enum: 1)
    priact7     DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(h)     active      DMBOOL       (enum: 1)
    priact8     DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(i)     active      DMBOOL       (enum: 1)
    priact9     DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(j)     active      DMBOOL       (enum: 1)
    priact10    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(k)     active      DMBOOL       (enum: 1)
    priact11    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(l)     active      DMBOOL       (enum: 1)
    priact12    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(m)     active      DMBOOL       (enum: 1)
    priact13    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(n)     active      DMBOOL       (enum: 1)
    priact14    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(o)     active      DMBOOL       (enum: 1)
    priact15    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(p)     active      DMBOOL       (enum: 1)
    priact16    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(q)     active      DMBOOL       (enum: 1)
    priact17    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(r)     active      DMBOOL       (enum: 1)
    priact18    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(s)     active      DMBOOL       (enum: 1)
    priact19    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(t)     active      DMBOOL       (enum: 1)
          Stored Tuple Layout      PRISG_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                         GK LINK FIELD                         |
   |===============+=========== priact0 ===========+===============|
```

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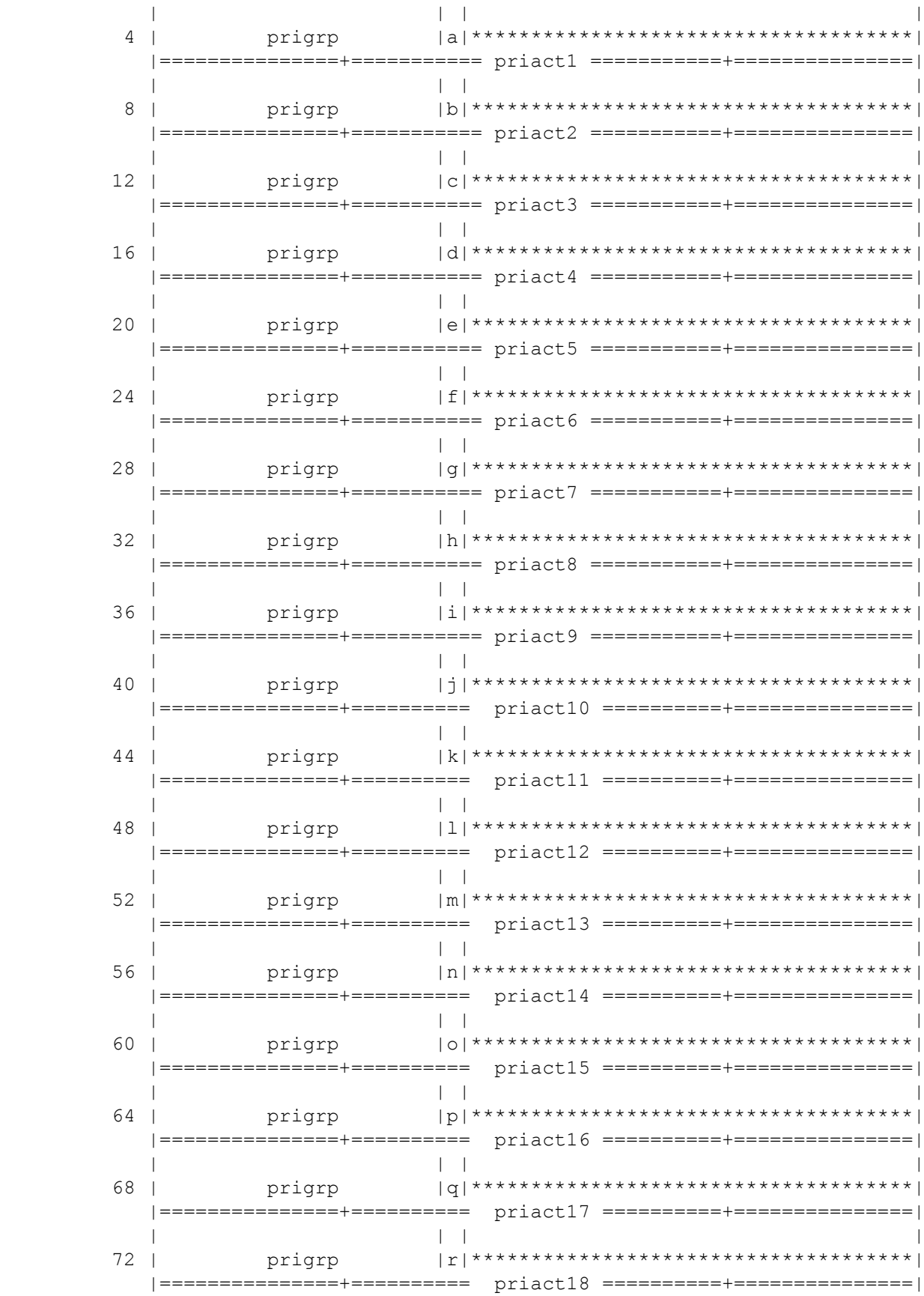
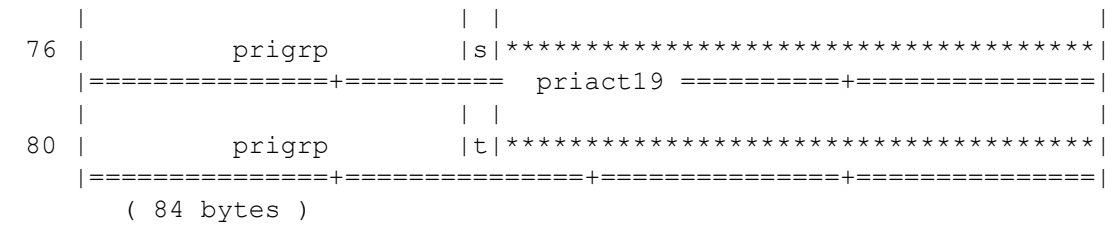

prigrp
priact1
priact2
priact3
priact4
priact5
priact6
priact7
priact8
priact9
priact10
priact11
priact12
priact13
priact14
priact15
priact16
priact17
priact18




## 4. Population rules for RLprisg_g

### Relation Description

# PRISG_R

## 1. Description

The Primary Rate Interface (PRI) Serving Group root relation is for OPVIEW RLprisrvgp.G. This root storage relations provides PRI serving group information and pointers to the child relation (RLprisg_g).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4095 |
| expected tuples in relation | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application type | RCMAP |
| relation type | DBSTORAGE |

## 3. Field Layout

```
PRISG_R     relid = 2909  DBSTORAGE  DBACC_HASH  DBPRAM    LP      RCMAP
     prisrvgrp   DMPRISRVGP   (ulong: 17) <--- key
     psgptr0     DMGK14       (ulong: 14)
 (a) srvtyp      DMSRVTYP     (enum: 1)
     psgptr1     DMGK14       (ulong: 14)
     psgptr2     DMGK14       (ulong: 14)
     psgptr3     DMGK14       (ulong: 14)
     psgptr4     DMGK14       (ulong: 14)
     count       DMUNS7       (ushort: 7)
         User, Compacted and Stored Tuple Layout    PRISG_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |            prisrvgrp            |          psgptr0            |a|
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
  4 |          psgptr1              |          psgptr2              |*******|
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
  8 |          psgptr3              |          psgptr4              |*******|
    |---------------+---------------+---------------+---------------|
    |              |                                                        |
 12 |    count     |********************************************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population rules for RLprisg_r

### Relation Description

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# PRISRVGP

## 1. Description

The Primary Rate Interface (PRI) Serving Group OPVIEW relation defines the PRI Serving Group. The serving group can store up to 100 unique PRI groups and their active status bits. Also see RLprisg_r.G and RLprisg_g.G

The tree diagram Figure 1 depicts the stored structure of virtual relation PRISRVGP.

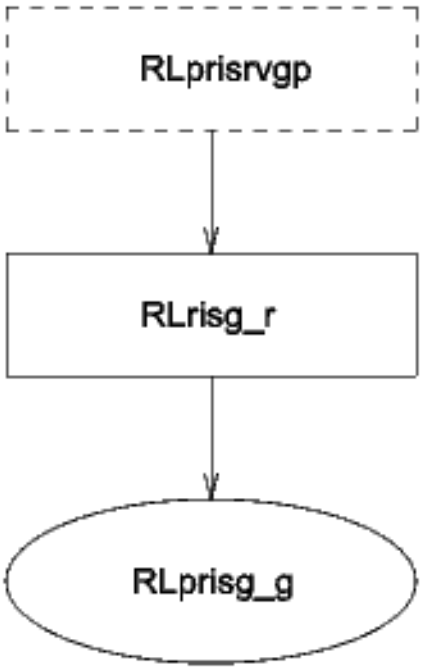


**Figure 1 Virtual Relation PRISRVGP**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| permutation | un_perm |

## 3. Field Layout

```
PRISRVGP    relid = 2908  DBSTATIC   DBACC_OPV   DBNOTODD  LP      RCMAP
     prisrvgrp   DMPRISRVGP   (ulong: 17) <--- key
 (a) srvtyp      DMSRVTYP     (enum: 1)
     count       DMUNS7       (ushort: 7)
     priact0     DMPRIACT     (struct)
         prigrp      DMPRIGRP     (ushort: 12)
 (b)     active      DMBOOL       (enum: 1)
     priact1     DMPRIACT     (struct)
         prigrp      DMPRIGRP     (ushort: 12)
 (c)     active      DMBOOL       (enum: 1)
     priact2     DMPRIACT     (struct)
         prigrp      DMPRIGRP     (ushort: 12)
 (d)     active      DMBOOL       (enum: 1)
```

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```
    priact3     DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(e)     active      DMBOOL       (enum: 1)
    priact4     DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(f)     active      DMBOOL       (enum: 1)
    priact5     DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(g)     active      DMBOOL       (enum: 1)
    priact6     DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(h)     active      DMBOOL       (enum: 1)
    priact7     DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(i)     active      DMBOOL       (enum: 1)
    priact8     DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(j)     active      DMBOOL       (enum: 1)
    priact9     DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(k)     active      DMBOOL       (enum: 1)
    priact10    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(l)     active      DMBOOL       (enum: 1)
    priact11    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(m)     active      DMBOOL       (enum: 1)
    priact12    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(n)     active      DMBOOL       (enum: 1)
    priact13    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(o)     active      DMBOOL       (enum: 1)
    priact14    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(p)     active      DMBOOL       (enum: 1)
    priact15    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(q)     active      DMBOOL       (enum: 1)
    priact16    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(r)     active      DMBOOL       (enum: 1)
    priact17    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(s)     active      DMBOOL       (enum: 1)
    priact18    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(t)     active      DMBOOL       (enum: 1)
    priact19    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(u)     active      DMBOOL       (enum: 1)
    priact20    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(v)     active      DMBOOL       (enum: 1)
```

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```
    priact21    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(w)     active      DMBOOL       (enum: 1)
    priact22    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(x)     active      DMBOOL       (enum: 1)
    priact23    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(y)     active      DMBOOL       (enum: 1)
    priact24    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(z)     active      DMBOOL       (enum: 1)
    priact25    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(A)     active      DMBOOL       (enum: 1)
    priact26    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(B)     active      DMBOOL       (enum: 1)
    priact27    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(C)     active      DMBOOL       (enum: 1)
    priact28    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(D)     active      DMBOOL       (enum: 1)
    priact29    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(E)     active      DMBOOL       (enum: 1)
    priact30    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(F)     active      DMBOOL       (enum: 1)
    priact31    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(G)     active      DMBOOL       (enum: 1)
    priact32    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(H)     active      DMBOOL       (enum: 1)
    priact33    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(I)     active      DMBOOL       (enum: 1)
    priact34    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(J)     active      DMBOOL       (enum: 1)
    priact35    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(K)     active      DMBOOL       (enum: 1)
    priact36    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(L)     active      DMBOOL       (enum: 1)
    priact37    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(M)     active      DMBOOL       (enum: 1)
    priact38    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(N)     active      DMBOOL       (enum: 1)
```

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```
    priact39    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(O)     active      DMBOOL       (enum: 1)
    priact40    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(P)     active      DMBOOL       (enum: 1)
    priact41    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(Q)     active      DMBOOL       (enum: 1)
    priact42    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(R)     active      DMBOOL       (enum: 1)
    priact43    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(S)     active      DMBOOL       (enum: 1)
    priact44    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(T)     active      DMBOOL       (enum: 1)
    priact45    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(U)     active      DMBOOL       (enum: 1)
    priact46    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(V)     active      DMBOOL       (enum: 1)
    priact47    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(W)     active      DMBOOL       (enum: 1)
    priact48    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(X)     active      DMBOOL       (enum: 1)
    priact49    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(Y)     active      DMBOOL       (enum: 1)
    priact50    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(Z)     active      DMBOOL       (enum: 1)
    priact51    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(a)     active      DMBOOL       (enum: 1)
    priact52    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(b)     active      DMBOOL       (enum: 1)
    priact53    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(c)     active      DMBOOL       (enum: 1)
    priact54    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(d)     active      DMBOOL       (enum: 1)
    priact55    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(e)     active      DMBOOL       (enum: 1)
    priact56    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(f)     active      DMBOOL       (enum: 1)
```

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```
    priact57    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(g)     active      DMBOOL       (enum: 1)
    priact58    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(h)     active      DMBOOL       (enum: 1)
    priact59    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(i)     active      DMBOOL       (enum: 1)
    priact60    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(j)     active      DMBOOL       (enum: 1)
    priact61    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(k)     active      DMBOOL       (enum: 1)
    priact62    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(l)     active      DMBOOL       (enum: 1)
    priact63    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(m)     active      DMBOOL       (enum: 1)
    priact64    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(n)     active      DMBOOL       (enum: 1)
    priact65    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(o)     active      DMBOOL       (enum: 1)
    priact66    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(p)     active      DMBOOL       (enum: 1)
    priact67    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(q)     active      DMBOOL       (enum: 1)
    priact68    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(r)     active      DMBOOL       (enum: 1)
    priact69    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(s)     active      DMBOOL       (enum: 1)
    priact70    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(t)     active      DMBOOL       (enum: 1)
    priact71    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(u)     active      DMBOOL       (enum: 1)
    priact72    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(v)     active      DMBOOL       (enum: 1)
    priact73    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(w)     active      DMBOOL       (enum: 1)
    priact74    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(x)     active      DMBOOL       (enum: 1)
```

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```
    priact75    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(y)     active      DMBOOL       (enum: 1)
    priact76    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(z)     active      DMBOOL       (enum: 1)
    priact77    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(A)     active      DMBOOL       (enum: 1)
    priact78    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(B)     active      DMBOOL       (enum: 1)
    priact79    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(C)     active      DMBOOL       (enum: 1)
    priact80    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(D)     active      DMBOOL       (enum: 1)
    priact81    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(E)     active      DMBOOL       (enum: 1)
    priact82    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(F)     active      DMBOOL       (enum: 1)
    priact83    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(G)     active      DMBOOL       (enum: 1)
    priact84    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(H)     active      DMBOOL       (enum: 1)
    priact85    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(I)     active      DMBOOL       (enum: 1)
    priact86    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(J)     active      DMBOOL       (enum: 1)
    priact87    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(K)     active      DMBOOL       (enum: 1)
    priact88    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(L)     active      DMBOOL       (enum: 1)
    priact89    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(M)     active      DMBOOL       (enum: 1)
    priact90    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(N)     active      DMBOOL       (enum: 1)
    priact91    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(O)     active      DMBOOL       (enum: 1)
    priact92    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(P)     active      DMBOOL       (enum: 1)
```

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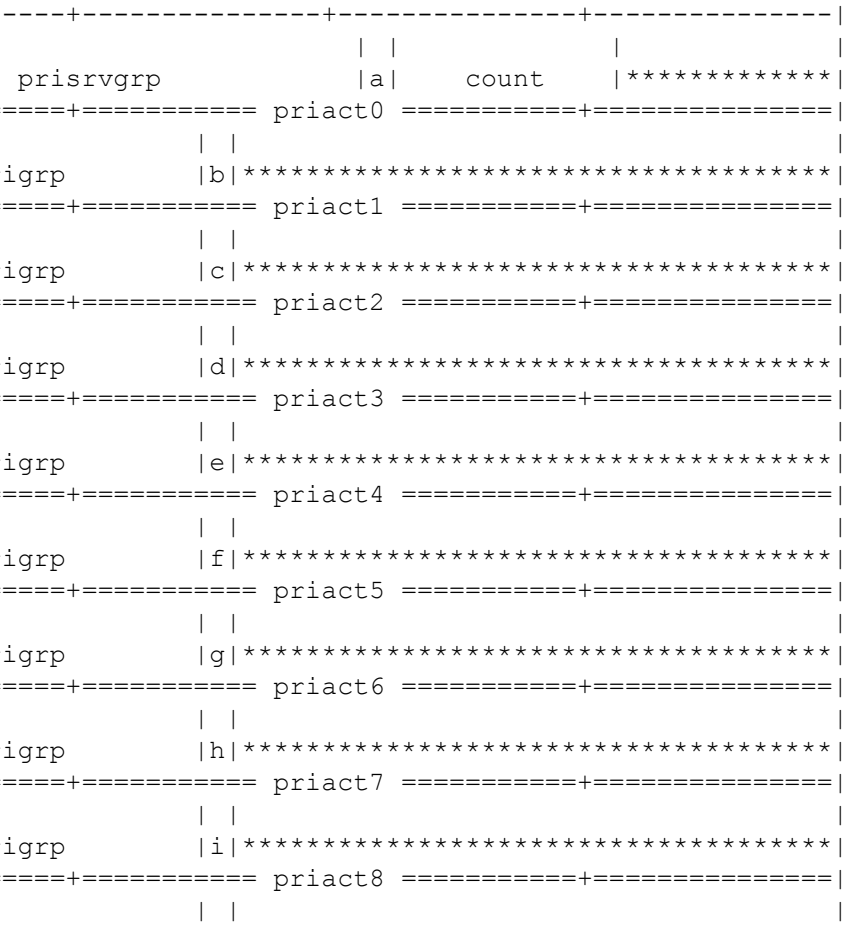
```
    priact93    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(Q)     active      DMBOOL       (enum: 1)
    priact94    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(R)     active      DMBOOL       (enum: 1)
    priact95    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(S)     active      DMBOOL       (enum: 1)
    priact96    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(T)     active      DMBOOL       (enum: 1)
    priact97    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(U)     active      DMBOOL       (enum: 1)
    priact98    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(V)     active      DMBOOL       (enum: 1)
    priact99    DMPRIACT     (struct)
        prigrp      DMPRIGRP     (ushort: 12)
(W)     active      DMBOOL       (enum: 1)
```

User, Compacted and Stored Tuple Layout PRISRVGP

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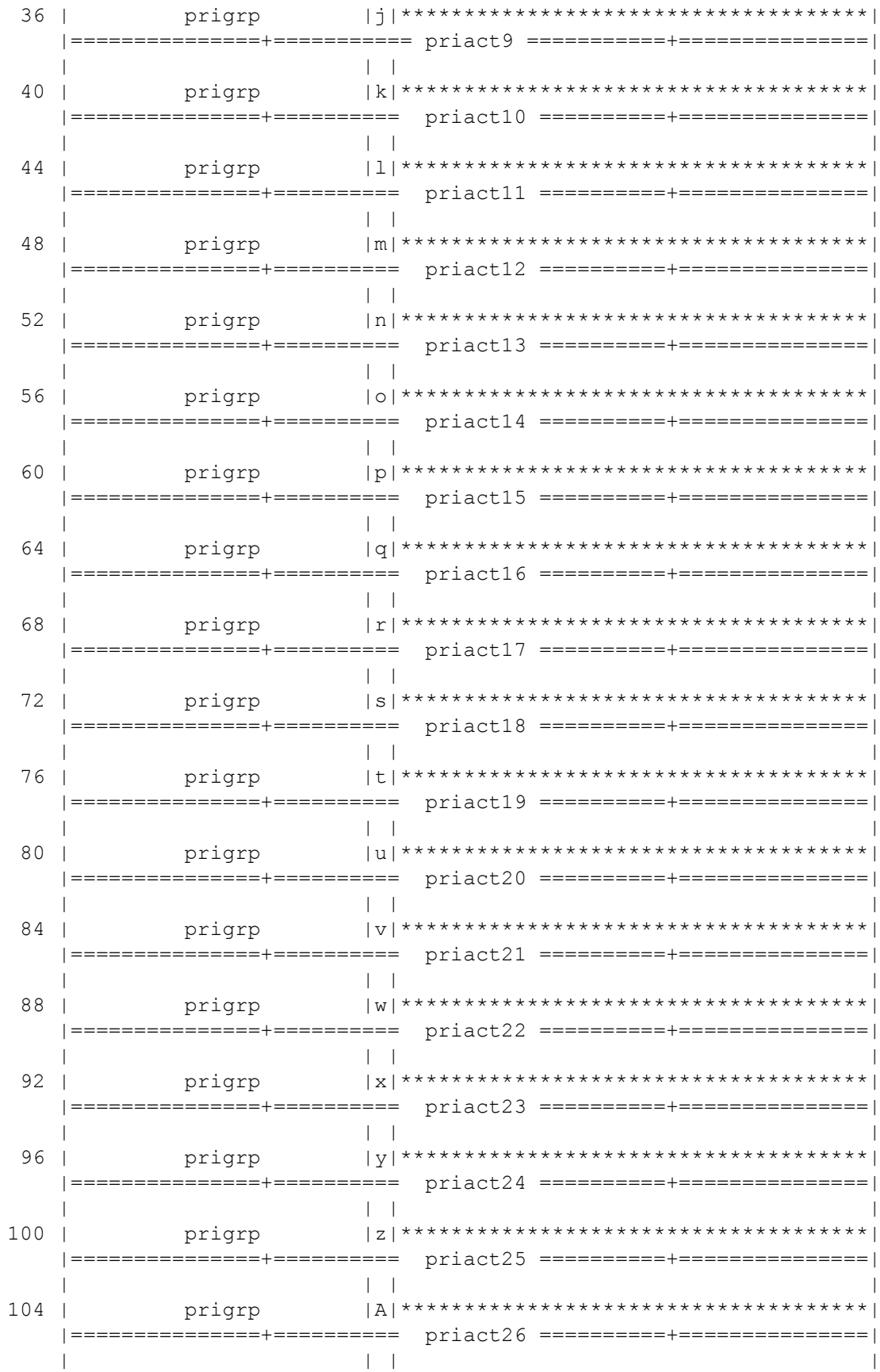


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```
108 |         prigrp        |B|************************************|
    |===============+==========  priact27 ==========+===============|
    |                        | |                                    |
112 |         prigrp        |C|************************************|
    |===============+==========  priact28 ==========+===============|
    |                        | |                                    |
116 |         prigrp        |D|************************************|
    |===============+==========  priact29 ==========+===============|
    |                        | |                                    |
120 |         prigrp        |E|************************************|
    |===============+==========  priact30 ==========+===============|
    |                        | |                                    |
124 |         prigrp        |F|************************************|
    |===============+==========  priact31 ==========+===============|
    |                        | |                                    |
128 |         prigrp        |G|************************************|
    |===============+==========  priact32 ==========+===============|
    |                        | |                                    |
132 |         prigrp        |H|************************************|
    |===============+==========  priact33 ==========+===============|
    |                        | |                                    |
136 |         prigrp        |I|************************************|
    |===============+==========  priact34 ==========+===============|
    |                        | |                                    |
140 |         prigrp        |J|************************************|
    |===============+==========  priact35 ==========+===============|
    |                        | |                                    |
144 |         prigrp        |K|************************************|
    |===============+==========  priact36 ==========+===============|
    |                        | |                                    |
148 |         prigrp        |L|************************************|
    |===============+==========  priact37 ==========+===============|
    |                        | |                                    |
152 |         prigrp        |M|************************************|
    |===============+==========  priact38 ==========+===============|
    |                        | |                                    |
156 |         prigrp        |N|************************************|
    |===============+==========  priact39 ==========+===============|
    |                        | |                                    |
160 |         prigrp        |O|************************************|
    |===============+==========  priact40 ==========+===============|
    |                        | |                                    |
164 |         prigrp        |P|************************************|
    |===============+==========  priact41 ==========+===============|
    |                        | |                                    |
168 |         prigrp        |Q|************************************|
    |===============+==========  priact42 ==========+===============|
    |                        | |                                    |
172 |         prigrp        |R|************************************|
    |===============+==========  priact43 ==========+===============|
    |                        | |                                    |
176 |         prigrp        |S|************************************|
    |===============+==========  priact44 ==========+===============|
    |                        | |                                    |
```

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```
180 |         prigrp        |T|************************************|
    |===============+==========  priact45 ==========+===============|
    |                        | |                                    |
184 |         prigrp        |U|************************************|
    |===============+==========  priact46 ==========+===============|
    |                        | |                                    |
188 |         prigrp        |V|************************************|
    |===============+==========  priact47 ==========+===============|
    |                        | |                                    |
192 |         prigrp        |W|************************************|
    |===============+==========  priact48 ==========+===============|
    |                        | |                                    |
196 |         prigrp        |X|************************************|
    |===============+==========  priact49 ==========+===============|
    |                        | |                                    |
200 |         prigrp        |Y|************************************|
    |===============+==========  priact50 ==========+===============|
    |                        | |                                    |
204 |         prigrp        |Z|************************************|
    |===============+==========  priact51 ==========+===============|
    |                        | |                                    |
208 |         prigrp        |a|************************************|
    |===============+==========  priact52 ==========+===============|
    |                        | |                                    |
212 |         prigrp        |b|************************************|
    |===============+==========  priact53 ==========+===============|
    |                        | |                                    |
216 |         prigrp        |c|************************************|
    |===============+==========  priact54 ==========+===============|
    |                        | |                                    |
220 |         prigrp        |d|************************************|
    |===============+==========  priact55 ==========+===============|
    |                        | |                                    |
224 |         prigrp        |e|************************************|
    |===============+==========  priact56 ==========+===============|
    |                        | |                                    |
228 |         prigrp        |f|************************************|
    |===============+==========  priact57 ==========+===============|
    |                        | |                                    |
232 |         prigrp        |g|************************************|
    |===============+==========  priact58 ==========+===============|
    |                        | |                                    |
236 |         prigrp        |h|************************************|
    |===============+==========  priact59 ==========+===============|
    |                        | |                                    |
240 |         prigrp        |i|************************************|
    |===============+==========  priact60 ==========+===============|
    |                        | |                                    |
244 |         prigrp        |j|************************************|
    |===============+==========  priact61 ==========+===============|
    |                        | |                                    |
248 |         prigrp        |k|************************************|
    |===============+==========  priact62 ==========+===============|
    |                        | |                                    |
```

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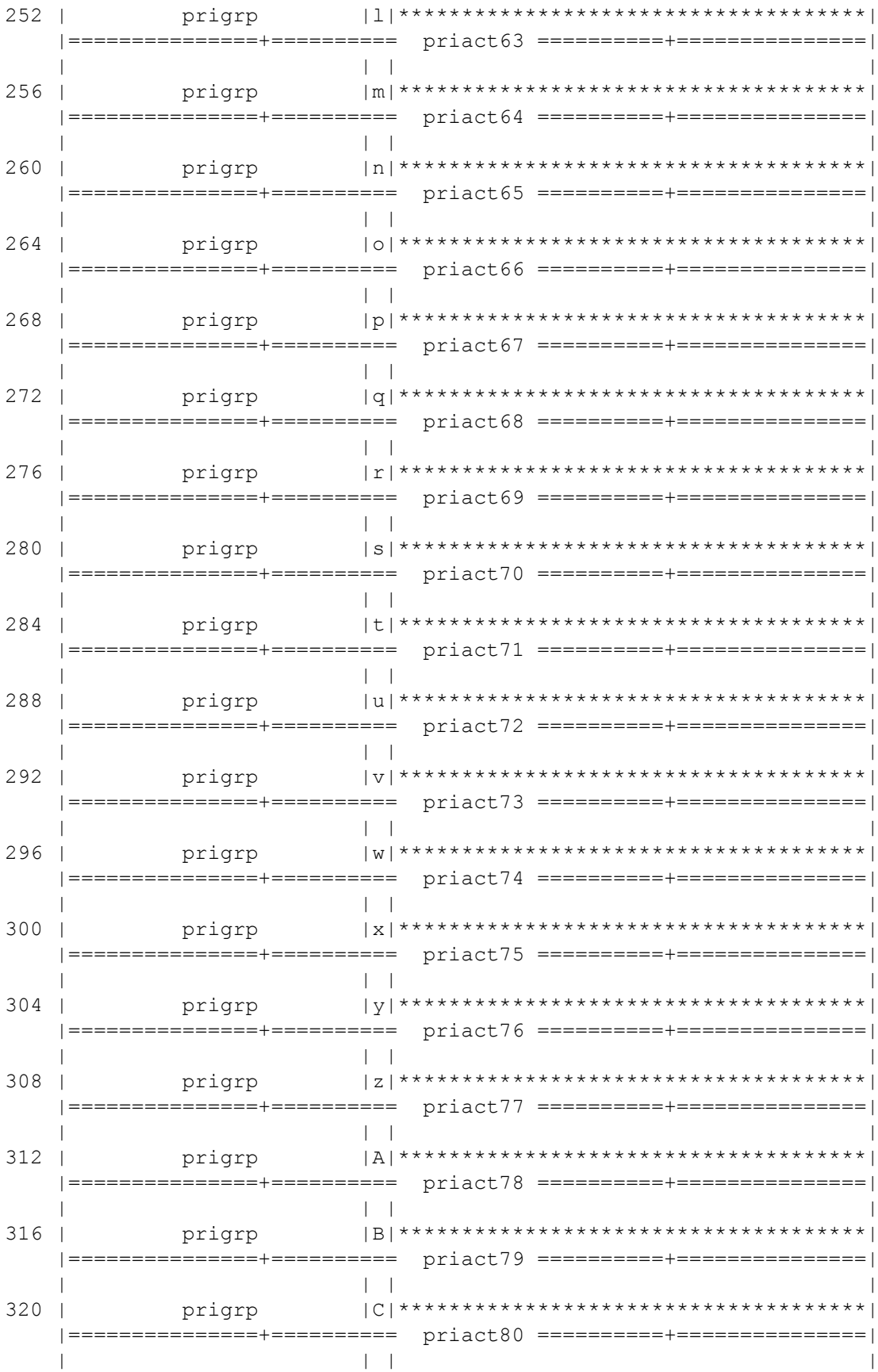


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```
324 |         prigrp        |D|************************************|
    |===============+==========  priact81 ==========+===============|
    |                        | |                                    |
328 |         prigrp        |E|************************************|
    |===============+==========  priact82 ==========+===============|
    |                        | |                                    |
332 |         prigrp        |F|************************************|
    |===============+==========  priact83 ==========+===============|
    |                        | |                                    |
336 |         prigrp        |G|************************************|
    |===============+==========  priact84 ==========+===============|
    |                        | |                                    |
340 |         prigrp        |H|************************************|
    |===============+==========  priact85 ==========+===============|
    |                        | |                                    |
344 |         prigrp        |I|************************************|
    |===============+==========  priact86 ==========+===============|
    |                        | |                                    |
348 |         prigrp        |J|************************************|
    |===============+==========  priact87 ==========+===============|
    |                        | |                                    |
352 |         prigrp        |K|************************************|
    |===============+==========  priact88 ==========+===============|
    |                        | |                                    |
356 |         prigrp        |L|************************************|
    |===============+==========  priact89 ==========+===============|
    |                        | |                                    |
360 |         prigrp        |M|************************************|
    |===============+==========  priact90 ==========+===============|
    |                        | |                                    |
364 |         prigrp        |N|************************************|
    |===============+==========  priact91 ==========+===============|
    |                        | |                                    |
368 |         prigrp        |O|************************************|
    |===============+==========  priact92 ==========+===============|
    |                        | |                                    |
372 |         prigrp        |P|************************************|
    |===============+==========  priact93 ==========+===============|
    |                        | |                                    |
376 |         prigrp        |Q|************************************|
    |===============+==========  priact94 ==========+===============|
    |                        | |                                    |
380 |         prigrp        |R|************************************|
    |===============+==========  priact95 ==========+===============|
    |                        | |                                    |
384 |         prigrp        |S|************************************|
    |===============+==========  priact96 ==========+===============|
    |                        | |                                    |
388 |         prigrp        |T|************************************|
    |===============+==========  priact97 ==========+===============|
    |                        | |                                    |
392 |         prigrp        |U|************************************|
    |===============+==========  priact98 ==========+===============|
    |                        | |                                    |
```

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```
396 |         prigrp        |V|************************************|
    |===============+==========  priact99 ==========+===============|
    |                       | |                                    |
400 |         prigrp        |W|************************************|
    |===============+===============+===============+===============|
       ( 404 bytes )

domain alPRISRVGP struct  (4 sub-attributes)
         prisrvgrp   .11.fake     (ulong: 17)
 (a)     srvtyp      .0fake       (enum)
         count       .12.fake     (ushort: 7)
         priact      .13.fake     (array [ 100 ] of .2fake )
             prigrp      .0.fake      (ushort: 12)
 (b)         active      .1fake       (enum)
                   Structure Layout    alPRISRVGP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               | |             |             |
  0 |            prisrvgrp          |a|    count    |*************|
    |===============+========== priact[0] ==========+===============|
    |                       | |                                    |
  4 |         prigrp        |b|************************************|
    |===============+========== priact[1] ==========+===============|
    |                       | |                                    |
  8 |         prigrp        |b|************************************|
    |===============+========== priact[2] ==========+===============|
    |                       | |                                    |
 12 |         prigrp        |b|************************************|
    |===============+========== priact[3] ==========+===============|
    |                       | |                                    |
 16 |         prigrp        |b|************************************|
    |===============+========== priact[4] ==========+===============|
    |                       | |                                    |
 20 |         prigrp        |b|************************************|
    |===============+========== priact[5] ==========+===============|
    |                       | |                                    |
 24 |         prigrp        |b|************************************|
    |===============+========== priact[6] ==========+===============|
    |                       | |                                    |
 28 |         prigrp        |b|************************************|
    |===============+========== priact[7] ==========+===============|
    |                       | |                                    |
 32 |         prigrp        |b|************************************|
    |===============+========== priact[8] ==========+===============|
    |                       | |                                    |
 36 |         prigrp        |b|************************************|
    |===============+========== priact[9] ==========+===============|
    |                       | |                                    |
 40 |         prigrp        |b|************************************|
    |===============+=========  priact[10] =========+===============|
    |                       | |                                    |
 44 |         prigrp        |b|************************************|
    |===============+=========  priact[11] =========+===============|
```

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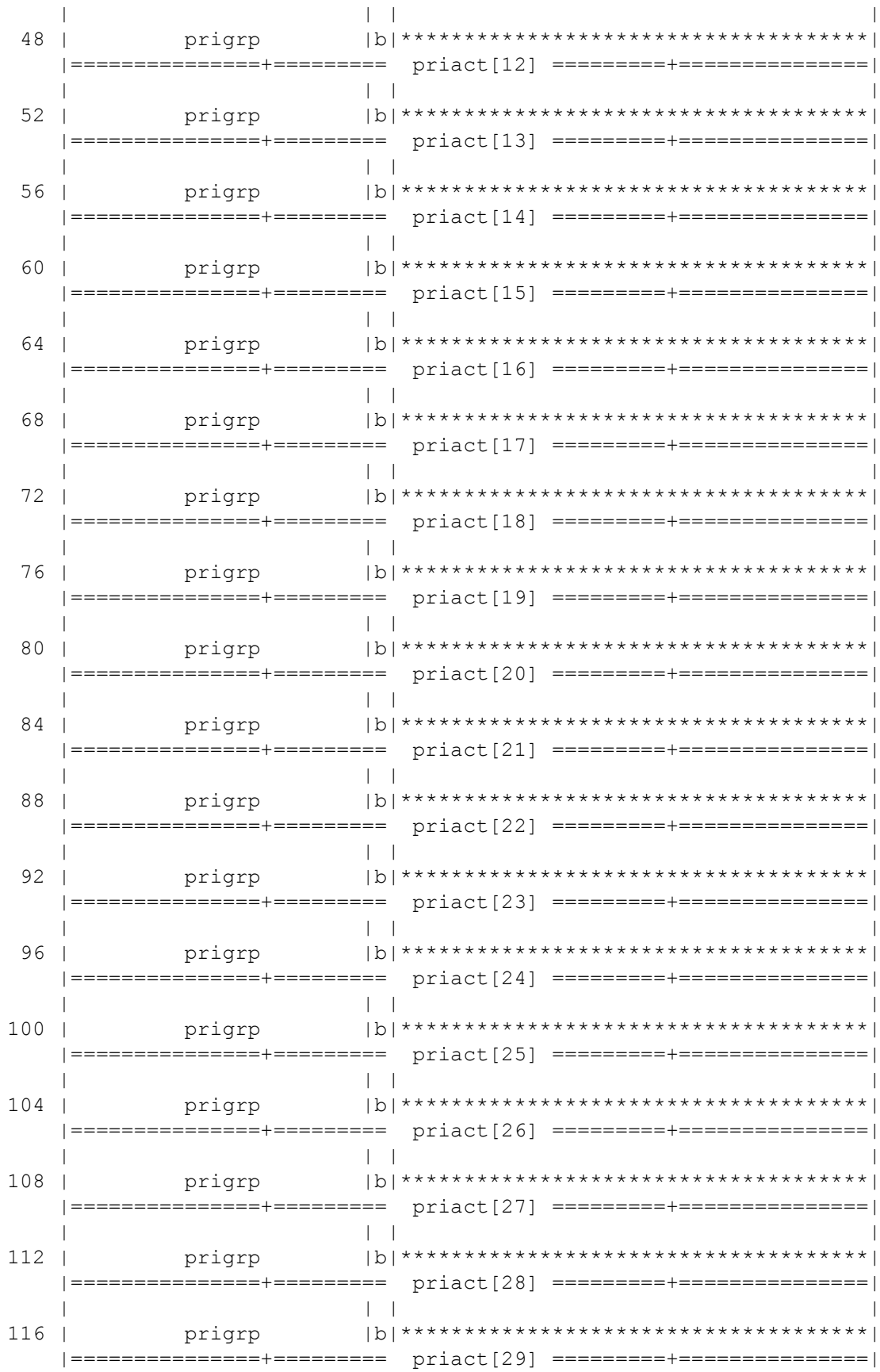


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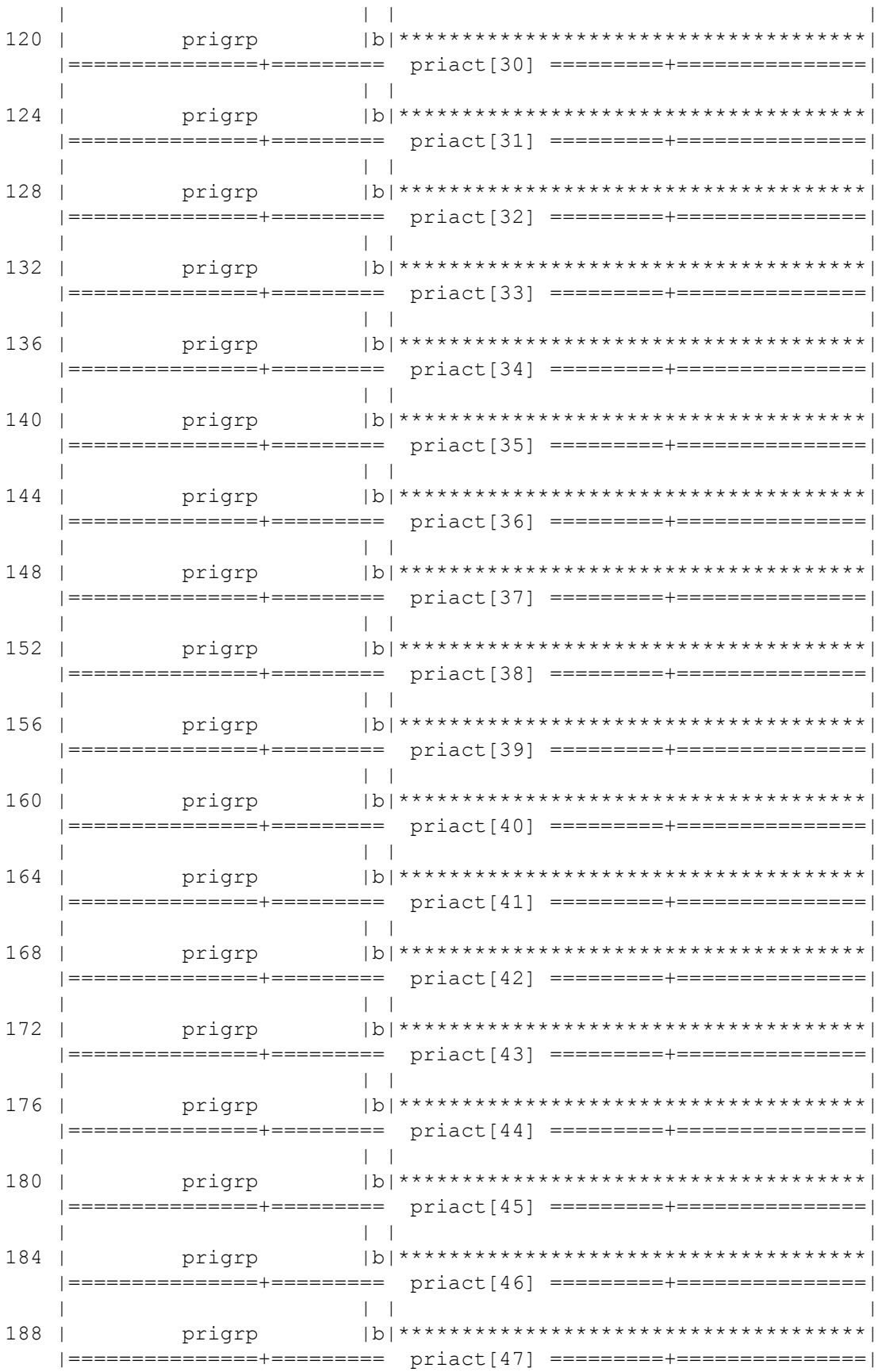


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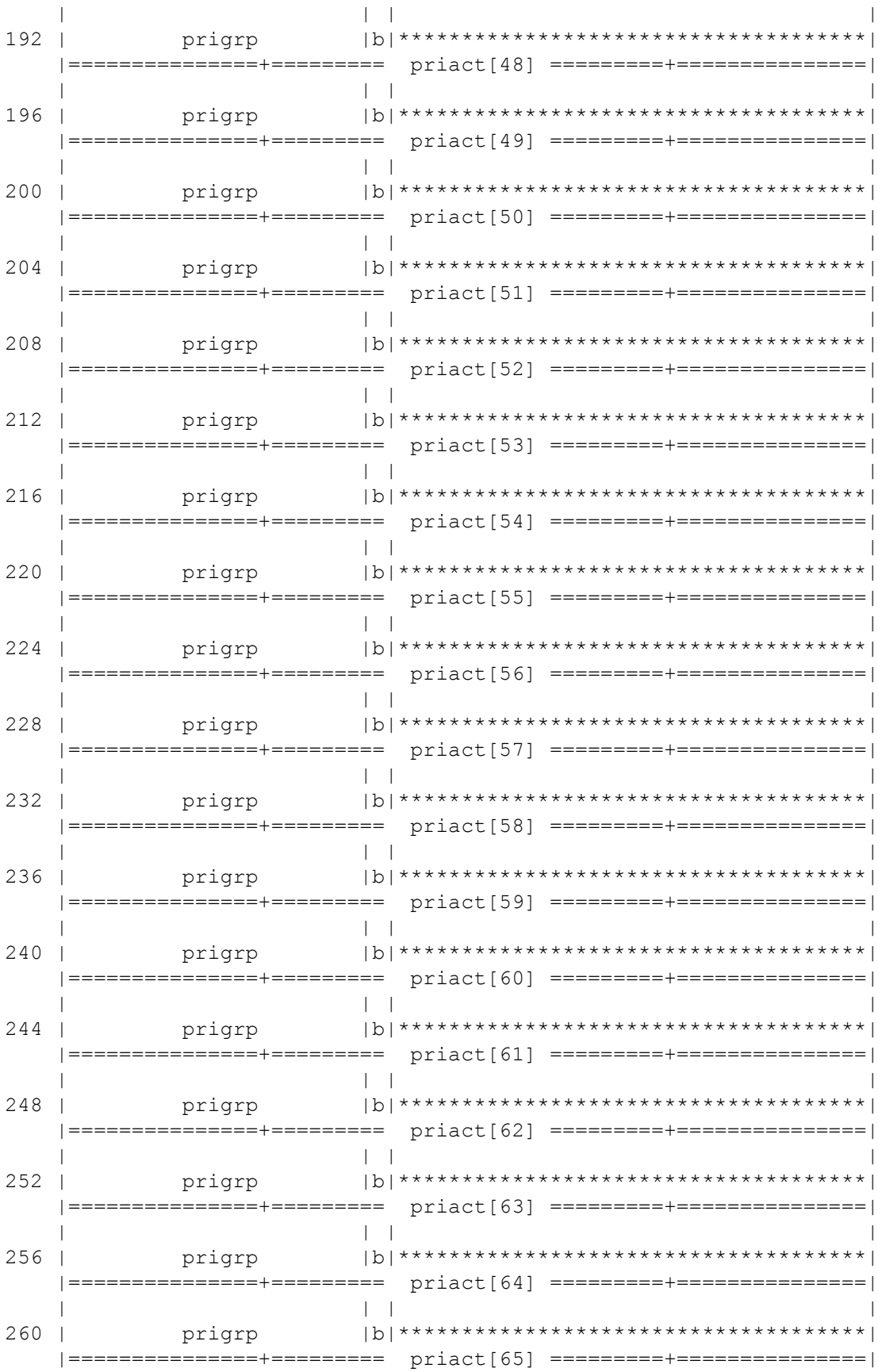


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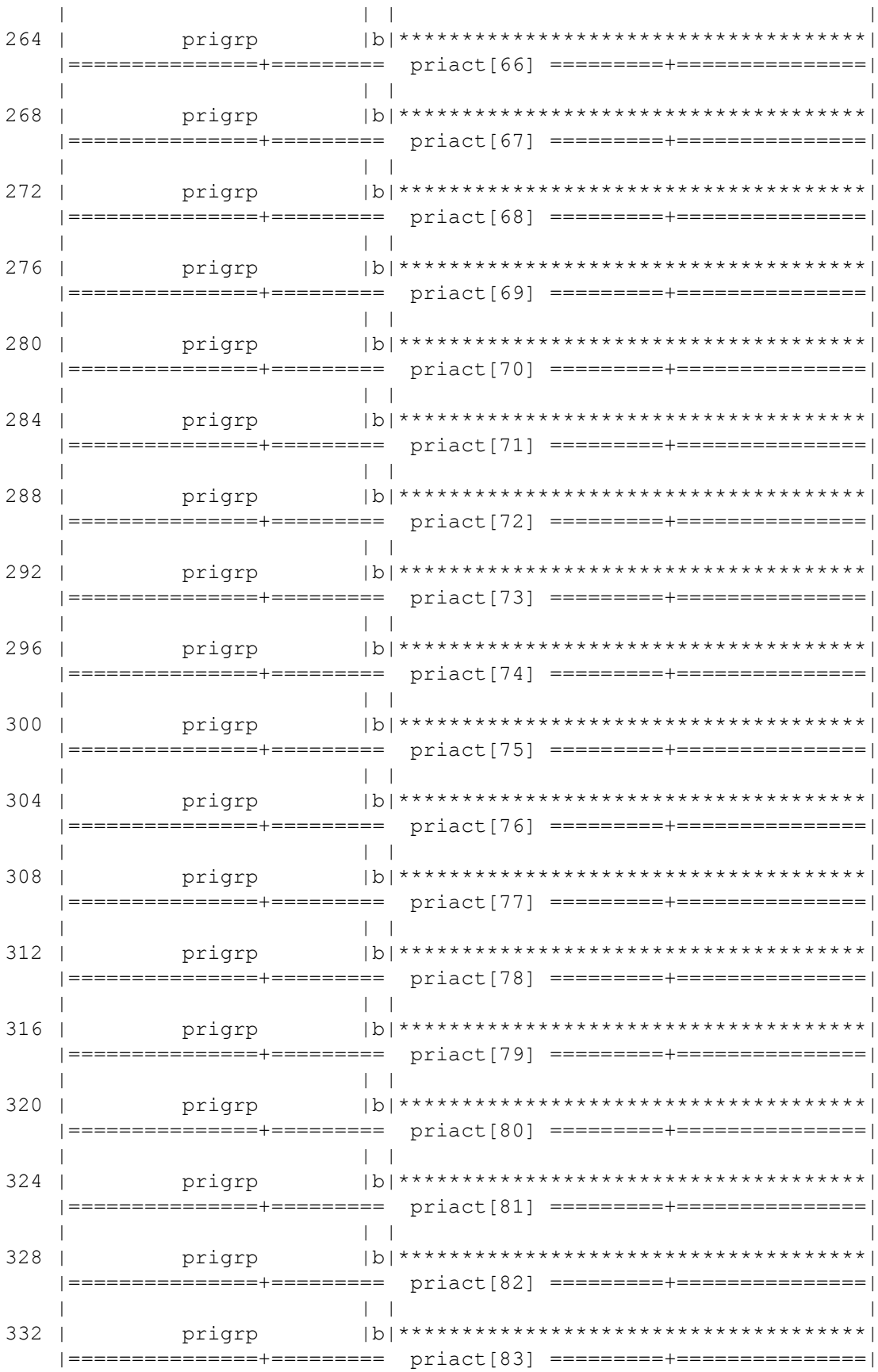


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```
    |                       | |                                      |
336 |         prigrp        |b|**************************************|
    |===============+=========  priact[84] =========+===============|
    |                       | |                                      |
340 |         prigrp        |b|**************************************|
    |===============+=========  priact[85] =========+===============|
    |                       | |                                      |
344 |         prigrp        |b|**************************************|
    |===============+=========  priact[86] =========+===============|
    |                       | |                                      |
348 |         prigrp        |b|**************************************|
    |===============+=========  priact[87] =========+===============|
    |                       | |                                      |
352 |         prigrp        |b|**************************************|
    |===============+=========  priact[88] =========+===============|
    |                       | |                                      |
356 |         prigrp        |b|**************************************|
    |===============+=========  priact[89] =========+===============|
    |                       | |                                      |
360 |         prigrp        |b|**************************************|
    |===============+=========  priact[90] =========+===============|
    |                       | |                                      |
364 |         prigrp        |b|**************************************|
    |===============+=========  priact[91] =========+===============|
    |                       | |                                      |
368 |         prigrp        |b|**************************************|
    |===============+=========  priact[92] =========+===============|
    |                       | |                                      |
372 |         prigrp        |b|**************************************|
    |===============+=========  priact[93] =========+===============|
    |                       | |                                      |
376 |         prigrp        |b|**************************************|
    |===============+=========  priact[94] =========+===============|
    |                       | |                                      |
380 |         prigrp        |b|**************************************|
    |===============+=========  priact[95] =========+===============|
    |                       | |                                      |
384 |         prigrp        |b|**************************************|
    |===============+=========  priact[96] =========+===============|
    |                       | |                                      |
388 |         prigrp        |b|**************************************|
    |===============+=========  priact[97] =========+===============|
    |                       | |                                      |
392 |         prigrp        |b|**************************************|
    |===============+=========  priact[98] =========+===============|
    |                       | |                                      |
396 |         prigrp        |b|**************************************|
    |===============+=========  priact[99] =========+===============|
    |                       | |                                      |
400 |         prigrp        |b|**************************************|
    |===============+===============+===============+===============|
      ( 404 bytes )
```

## 4. Population rules for RLprisrvgp

**Relation Description**

Serving Group for (PRI) Primary Rate Interface
This relation defines on a per switching module (SM) basis, the serving group associated with the PRI group.
/* MAXPRIACT is defined in RLprisrvgp.G */

**Attribute:**
prisrvgrp
**Fullname:**
PRI serving group
**Attribute Description:**
PRI serving group number.

**Attribute:**
srvtyp
**Fullname:**
PRI serving group type
**Attribute Description:**
Indicate what type of serving group, for example a type of TBCT.

**Attribute:**
count
**Fullname:**
PRI group count
**Attribute Description:**
The current number of PRI groups in this PRI serving group.

**Attribute:**
priact[*]
**Fullname:**
Structure containing PRI group number and active information.
**Attribute Description:**
This is a structure domain DMpriact. It is an array of up to $MAXPRIACT unique PRI group numbers which are members of the same PRI serving group and their associated active status.(that is prigrp[5] corresponds with active[5])

**Attribute:**
priact[*].prigrp
**Fullname:**
PRI group number.
**Attribute Description:**
Up to $MAXPRIACT PRI group numbers which are members of the same PRI serving group.

**Attribute:**

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priact[*].active

**Fullname:**

PRI group active

**Attribute Description:**

Indicate whether the serving type on the PRI group is active.

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# PRO_NXX

## 1. Description

This relation gives the true NPA in terms of the trunk group NPA and the "protected" NXX.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1280 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
PRO_NXX     relid = 350   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     npa_trkgrp  DMUNS10      (ushort: 10)  <--- key
     nxx         DMUNS10      (ushort: 10)  <--- key
     npa_true    DMUNS10      (ushort: 10)
         User, Compacted and Stored Tuple Layout    PRO_NXX
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                     |           |                     |           |
  0 |     npa_trkgrp     |***********|        nxx          |***********|
    |---------------+---------------+---------------+---------------|
    |                     |                                           |
  4 |      npa_true       |*******************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLpro_nxx

**Relation Description**
This relation gives the true NPA in terms of the trunk group NPA and the 'protected' NXX.

**Attribute: npa_trkgrp**

**Fullname:** NPA trunk group

**Attribute Description** NPA for trunk group with a protected NXX.

**Attribute: nxx**

**Fullname:** NXX

**Attribute Description** Protected NXX.

**Attribute: npa_true**

**Fullname:** NPA true

**Attribute Description** True NPA for this NPA and NXX combination.

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# PROPBID

## 1. Description

This Domestic Static Proportionate Bidding relation is used to hold the routing data for the range of route indices to which the Proportionate Bidding Special Feature may apply.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| expected tuples in relation | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| application type | GCRTG |
| relation type | DBSTATIC |
| trigger function | RTpropbid |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
PROPBID     relid = 1884  DBSTATIC   DBACC_HASH  DBPRAM    LPFR    GCRTG
     rte_idx     DMRTEIDX     (ushort: 12)     <--- key
     spare1      DMHEX8       (ushort: 8)
     spare2      DMHEX4       (ushort: 4)
 (a) spare3a     DMBOOL       (enum: 1)
 (b) spare3b     DMBOOL       (enum: 1)
 (c) spare3c     DMBOOL       (enum: 1)
 (d) propstate   DMBOOL       (enum: 1)
     propcar1    DMUNS16      (ushort)
     propcar2    DMUNS16      (ushort)
     propcar3    DMUNS16      (ushort)
     propcar4    DMUNS16      (ushort)
     proppor1    DMUCHAR      (uchar)
     proppor2    DMUCHAR      (uchar)
     proppor3    DMUCHAR      (uchar)
     proppor4    DMUCHAR      (uchar)
     propidx1    DMUNS16      (ushort)
     propidx2    DMUNS16      (ushort)
     propidx3    DMUNS16      (ushort)
     propidx4    DMUNS16      (ushort)
         User, Compacted and Stored Tuple Layout    PROPBID
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |       |               |       | | | | |
  0 |        rte_idx        |*******|     spare1    | spare2|a|b|c|d|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            propcar1           |            propcar2           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            propcar3           |            propcar4           |
```

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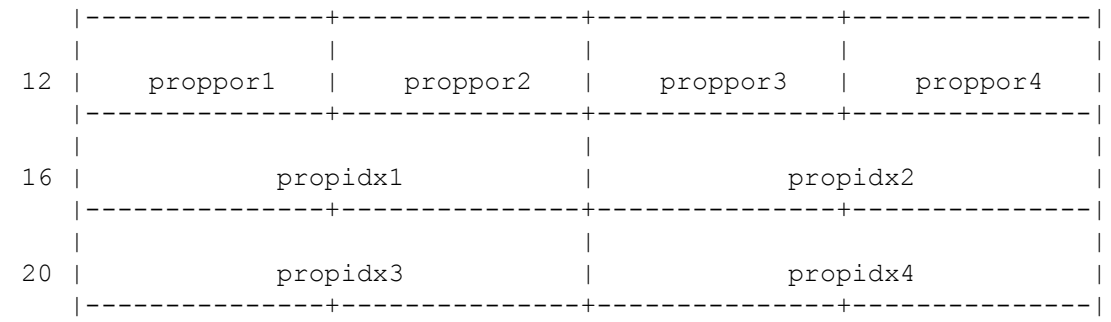
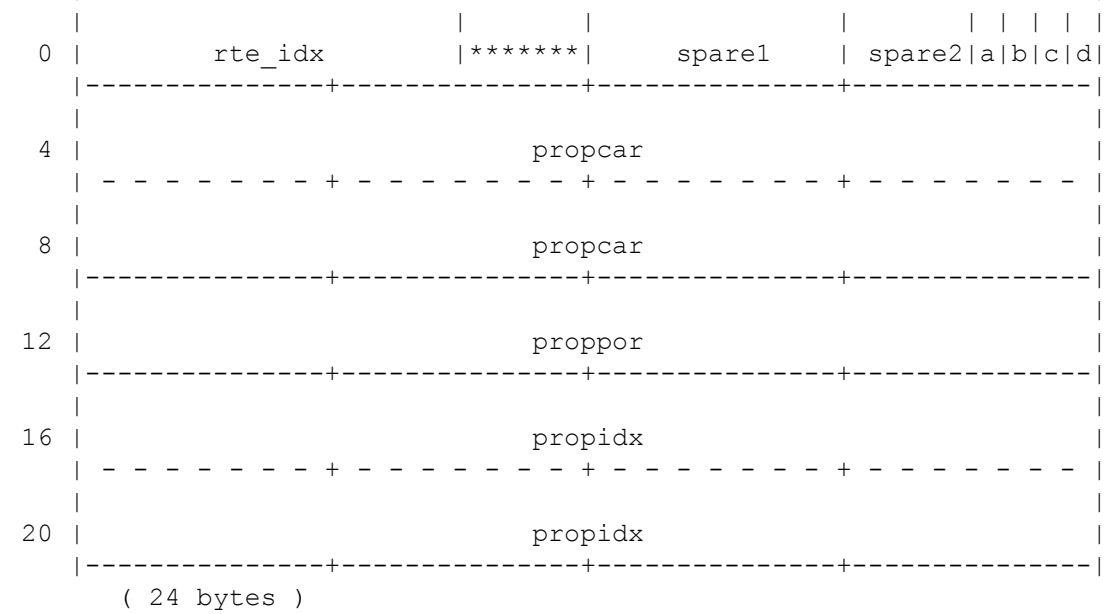



( 24 bytes )

```
domain alPROPBID  struct  (10 sub-attributes)
        rte_idx     .3.fake      (ushort: 14)
        spare1      .4.fake      (ushort)
        spare2      .5.fake      (ushort: 4)
 (a)    spare3a     .0fake       (enum)
 (b)    spare3b     .0fake       (enum)
 (c)    spare3c     .0fake       (enum)
 (d)    propstate   .0fake       (enum)
        propcar     .6.fake      (array [ 4 ] of unsigned short )
        proppor     .7.fake      (array [ 4 ] of unsigned char )
        propidx     .8.fake      (array [ 4 ] of unsigned short )
```

Structure Layout alPROPBID




( 24 bytes )

## 4. Population Rules for RLpropbid

**Relation Description**
Domestic Static Proportionate Bidding.

The Domestic Static Proportionate Bidding relation is used to hold the routing data for the range of route indices to which the Proportionate Bidding Special Feature may apply. These route indices are referred to as the Proportionate Bidding (PB) route indices. The PB route index is the key to this relation. Since there can be up to 32

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PB route indices, this relation can have up to 32 tuples. Information in each tuple may identify up to 4 more route indices (referred to as carrier-specific route indices) to which calls may be directed based on Operating Company assigned proportions. In addition, each tuple can have up to 4 carrier designations (no relation to carrier ID as used elsewhere on the *5ESS*®-2000 switch), and up to 4 proportions, where each proportion indicates the percentage of calls that the associated carrier will handle. Each tuple also has an indicator stating whether the proportionate bidding feature is active for this PB route index. In summary, for each PB route index, there can be up to 4 carriers, 4 proportions, and 4 carrier-specific route indices. Each carrier has a corresponding proportion and route index. Calls to the PB route index (key attribute) will be apportioned for routing between the carrier-specific route indices (propidx) according to the corresponding proportion (proppor) values. The attributes 'propcar[1-4]' represent the possible carrier designations. The attributes 'proppor[1-4]' represent the possible proportion values, and the attributes 'propidx[1-4]' represent the possible carrier-specific route indices. The proportion value for each carrier-specific route index must be greater than or equal to zero. All the proportion values must sum up to 100, and must be in non-increasing order. The technician will not be forced to enter the proportions in this order with RC/V since the mapping code will reorder them in the appropriate order when necessary.

**Attribute: rte_idx**

**Fullname:** Initial Route Index for the destination.

**Attribute Description** This attribute is the key of the propbid relation.

**Attribute: spare1**

**Fullname:** Spare byte for possible future use.

**Attribute Description** For future use.

**Attribute: spare2**

**Fullname:** Spare Nibble for possible future use.

**Attribute Description** For future use.

**Attribute: spare3a**

**Fullname:** Spare boolean for possible future use.

**Attribute Description** For future use.

**Attribute: spare3b**

**Fullname:** Spare boolean for possible future use.

**Attribute Description** For future use.

**Attribute: spare3c**

**Fullname:** Spare boolean for possible future use.

**Attribute Description** For future use.

**Attribute: propstate**

**Fullname:** Proportionate Bidding State Flag.

**Attribute Description** This field indicates whether proportionate bidding is enabled or disabled for

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the route index that is the key to this tuple.

**Attribute: propcar1**

**Fullname:** Carrier 1 Number.

**Attribute Description** This field is the carrier number associated with the route index. Since this tuple exists, there must be at least one valid carrier associated with the route index. The other carriers can be set to zero corresponding to an entry not in use.

**Attribute: propcar2**

**Fullname:** Carrier 2 Number.

**Attribute Description** This field is the carrier number associated with the route index. This carrier number is the same type as the propcar attribute.

**Attribute: propcar3**

**Fullname:** Carrier 3 Number.

**Attribute Description** This field is the carrier number associated with the route index. This carrier number is the same type as the propcar attribute.

**Attribute: propcar4**

**Fullname:** Carrier 4 Number.

**Attribute Description** This field is the carrier number associated with the route index. This carrier number is the same type as the propcar attribute.

**Attribute: proppor1**

**Fullname:** Proportion of calls to go to carrier 1.

**Attribute Description** This field contains the desired percentage of calls that should be routed to carrier 1. A percentage of 1 to 100 is allowed.

**Attribute: proppor2**

**Fullname:** Proportion of calls to go to carrier 2.

**Attribute Description** This field contains the desired percentage of calls that should be routed to carrier 2. A percentage of 0 to 100 is allowed.

**Attribute: proppor3**

**Fullname:** Proportion of calls to go to carrier 3.

**Attribute Description** This field contains the desired percentage of calls that should be routed to carrier 3. A percentage of 0 to 100 is allowed.

**Attribute: proppor4**

**Fullname:** Proportion of calls to go to carrier 4.

**Attribute Description** This field contains the desired percentage of calls that should be routed to

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carrier 4. A percentage of 0 to 100 is allowed.

**Attribute: propidx1**

**Fullname:** Carrier 1's carrier-specific route index.

**Attribute Description** This field is the carrier-specific route index that is used to route calls to the chosen carrier. This route index is the same type as the PB route index but must have a different value. Since this tuple exists, there must be at least one valid carrier-specific route index. The other carrier-specific route indices can be set to zero.

**Attribute: propidx2**

**Fullname:** Carrier 2's carrier-specific route index.

**Attribute Description** This field is the carrier-specific route index that is used to route calls to the chosen carrier. This route index is the same type as the PB route index but must have a different value.

**Attribute: propidx3**

**Fullname:** Carrier 3's carrier-specific route index.

**Attribute Description** This field is the carrier-specific route index that is used to route calls to the chosen carrier. This route index is the same type as the PB route index but must have a different value.

**Attribute: propidx4**

**Fullname:** Carrier 4's carrier-specific route index.

**Attribute Description** This field is the carrier-specific route index that is used to route calls to the chosen carrier. This route index is the same type as the PB route index but must have a different value.

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# PROTPARM

## 1. Description

This Virtual Update relation is for all TCP, UDP, and IP parameters. The Root storage relation is RLpparm_r.G and the Child storage relation is RLparms_g.G.

The tree diagram Figure 1 depicts the stored structure of virtual relation PROTPARM.

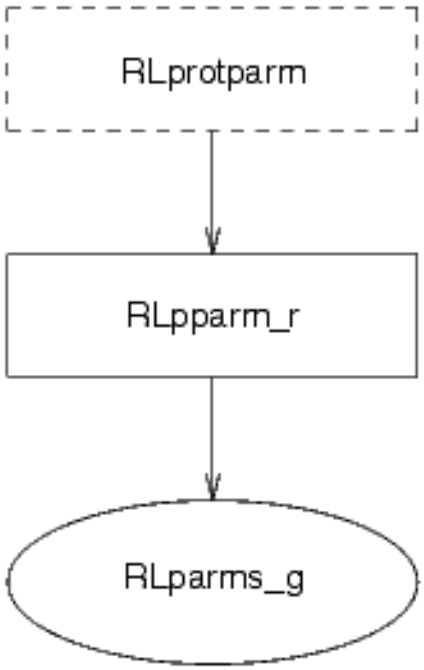


**Figure 1 Virtual Relation PROTPARM**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | PSprotparm |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
PROTPARM    relid = 3112  DBSTATIC   DBACC_OPV   DBNOTODD  FP      NULL


    pcr_name    DMPCRNAME    (struct)  <--- key
        pcr_id      DMUNS8       (ushort: 8)
        qualA       DMUNS8       (ushort: 8)
        qualB       DMUNS8       (ushort: 8)
        qualC       DMUNS8       (ushort: 8)
    tephport_start  DMUSHORT     (ushort)
    tcpmss_def  DMUSHORT     (ushort)
    tcpttl_def  DMUNS8       (ushort: 8)
```

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```
     ipreassem_timr  DMUNS8       (ushort: 8)
     icmperr_cnt  DMUNS8       (ushort: 8)
     udpttl_def  DMUNS8       (ushort: 8)
     ipmtu_discov  DMUSHORT     (ushort)
     uephport_start  DMUSHORT     (ushort)
 (a) enable_mtudis  DMBOOL       (enum: 1)
 (b) chksum_enable  DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout   PROTPARM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+==========  pcr_name ==========+===============|
    |               |               |               |               |
  0 |     pcr_id    |     qualA     |     qualB     |     qualC     |
    |===============+===============+===============+===============|
    |                               |                               |
  4 |         tephport_start        |           tcpmss_def          |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  8 |   tcpttl_def  | ipreassem_timr|  icmperr_cnt  |   udpttl_def  |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |          ipmtu_discov         |         uephport_start        |
    |---------------+---------------+---------------+---------------|
    | | |                                                           |
 16 |a|b|***********************************************************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population rules for RLprotparm

### Relation Description

Protocol Parameter Values Relation

This relation defines the TCP, IP, and UDP Parameter Values.

**Attribute:**
pcr_name.pcr_id
**Fullname:**
Processor name identification number
**Attribute Description:**
This attribute is the processor identification number

**Attribute:**
tcpmss_def
**Fullname:**
TCP maximum segment size default
**Attribute Description:**
This attribute is the default maximum segment size value.

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**Attribute:**
tephport_start
**Fullname:**
TCP Ephemeral port start number
**Attribute Description:**
This attribute is the starting TCP ephemeral port number.

**Attribute:**
tcpttl_def
**Fullname:**
TCP TTL default value
**Attribute Description:**
The default TCP TTL value from 1-255.

**Attribute:**
ipreassem_timr
**Fullname:**
IP reassembly timer
**Attribute Description:**
This attribute is the IP reassembly timer (in seconds) used when the IP must reassemble fragmented messages.

**Attribute:**
icmperr_cnt
**Fullname:**
ICMP error count
**Attribute Description:**
The count of the number of octets to be returned in ICMP error messages.

**Attribute:**
ipmtu_discov
**Fullname:**
IP maximum transmission unit discovery
**Attribute Description:**
The interval in seconds in which IP attempts to increase the path MTU through the path MTU discovery procedures.

**Attribute:**
enable_mtudis
**Fullname:**
IP path maximum transmission unit enabled
**Attribute Description:**
This attribute turns on or off the path MTU discovery procedures.

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**Attribute:**
chksum_enable
**Fullname:**
Check sum enabled
**Attribute Description:**
This attribute turns on and off the generation and checking of the UDP checksum.

**Attribute:**
uephport_start
**Fullname:**
UDP Ephemeral port start number
**Attribute Description:**
This attribute is the starting UDP ephemeral port number.

**Attribute:**
udpttl_def
**Fullname:**
UDP TTL default value
**Attribute Description:**
The default UDP TTL value from 1-255.

```
/* RULE about RLprotparm.attr_values */
```

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# PRT_PCI

## 1. Description

This relation translates a module and port number into a point code index and a circuit code for both CCS6 and CCS7 trunks.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100000 |
| expected number of tuples | 30000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTATIC |

## 3. Field Layout

```
PRT_PCI     relid = 709   DBSTATIC   DBACC_DHSH  DBPRAM    LR      NULL


     port        DMPORT       (ushort)  <--- key
     circuit_code  DMCKT_CODE   (ushort: 14)
     pci         DMPCIDX      (ushort: 10)
     protocol    DMDIGSIG     (enum: 5)
     module      DMMODULE     (ushort: 8)       <--- key
         User, Compacted and Stored Tuple Layout    PRT_PCI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |   |
  0 |              port              |        circuit_code           |***|
    |---------------+---------------+---------------+---------------|
    |                    |         | |               |               |
  4 |        pci         | protocol|*|     module    |***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLprt_pci

**Relation Description**

Module and port to point code index and circuit code relation

This relation translates a module and port number into a point code index and a circuit code for CCS7 trunks. The ccs subsytem is the main user of this relation.

**Attribute:**

module

**Fullname:**

Switching module

**Attribute Description:**

This is a key attribute which is the switching module associated with this trunk.

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**Attribute:**
port
**Fullname:**
Port number
**Attribute Description:**
The port Digital Equipment Number (DEN), Trunk Equipment Number (TEN), or Networking Equipment Number (NEN) associated with this trunk.

**Attribute:**
circuit_code
**Fullname:**
Circuit identifier code
**Attribute Description:**
The circuit identifier for the CCS trunk.

For CCS7 trunks, (that is, DBTUP7 and DBISUP7), this 14-bit field is the circuit identification code assigned by the customer.

**Attribute:**
pci
**Fullname:**
Point code index
**Attribute Description:**
The point code index is derived as part of the population rules for the RLlab7_pci relation.

**Attribute:**
protocol
**Fullname:**
CCS protocol
**Attribute Description:**
The CCS protocol used on this trunk.

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# PRT2RPCU

## 1. Description

This WCTX relation contains the PORT to RPCU data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3072 |
| expected number of tuples | 1200 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution type | FP |
| relation type | DBSTATIC |
| trigger function | TMrpcumvtg |
| insert trigger | DBNO |
| update trigger | DBYES |
| delete trigger | DBNO |
| end of transaction trigger | DBYES |
| spare | 32L |

## 3. Field Layout

```
PRT2RPCU    relid = 2229  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     port        DMPORT       (ushort)     <--- key
     rpcu_id     DMRPCUID     (ushort)
         User, Compacted and Stored Tuple Layout   PRT2RPCU
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |               port            |            rpcu_id            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |***************************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLprt2rpcu

**Relation Description**
Port to radio port control unit.

This relation maps ISDN port to the radio port control unit. This relation was added by the WIRELESS Centrex (WCTX) feature.

**Attribute: port**

**Fullname:** port name

**Attribute Description** The port name of the D-channel port.

**Attribute: rpcu_id**

**Fullname:** RPCU Identifier.

**Attribute Description** Identifies the radio equipment.

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# PRT6LAB

## 1. Description

This relation translates the internal representation of the CCS6 port, that is, module and member, to an external representation of routing label. Tuples are inserted or deleted for each insertion or deletion to the RLlab6prt relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 512 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| ks key store option | DBNO |

## 3. Field Layout

```
PRT6LAB     relid = 643   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


    gport       DMGPORT      (struct)  <--- key, not stored, compacted
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    band        DMBAND       (ushort: 9)
    sl_group    DMSL_GROUP   (ushort: 6)
(a) bmem_num    DMBMEM_NUM   (ushort: 4)
    sl_mem      DMSL_MEM     (ushort: 4)
(b) sl_vlink    DMSL_VLINK   (ushort: 3)
          User Tuple Layout   PRT6LAB
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+============ gport ============+===============|
   |                                |                |               |
 0 |             member             |****************|     module    |
   |================+===============+================+===============|
   |                |           | |        |       |     |         |
 4 |       band     |  sl_group |*|   a    | sl_mem|  b  |*********|
   |----------------+---------------+----------------+---------------|
      ( 8 bytes )


    gport       DMPORT       (ushort)  <--- key, not stored, compacted
    band        DMBAND       (ushort: 9)
    sl_group    DMSL_GROUP   (ushort: 6)
(a) bmem_num    DMBMEM_NUM   (ushort: 4)
    sl_mem      DMSL_MEM     (ushort: 4)
(b) sl_vlink    DMSL_VLINK   (ushort: 3)
        Compacted Tuple Layout    PRT6LAB
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |----------------+---------------+----------------+---------------|
   |                                |                                |
```

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```
 0 |             gport             |*******************************|
   |---------------+---------------+---------------+---------------|
   |                 |           | |       |       |     |         |
 4 |       band      |  sl_group |*|   a   | sl_mem|  b  |*********|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )


    band        DMBAND       (ushort: 9)
    sl_group    DMSL_GROUP   (ushort: 6)
(a) bmem_num    DMBMEM_NUM   (ushort: 4)
    sl_mem      DMSL_MEM     (ushort: 4)
(b) sl_vlink    DMSL_VLINK   (ushort: 3)
          Stored Tuple Layout      PRT6LAB
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                 |           | |       |       |     |         |
 0 |       band      |  sl_group |*|   a   | sl_mem|  b  |*********|
   |---------------+---------------+---------------+---------------|
      ( 4 bytes )
```

## 4. Population rules for RLprt6lab

### Relation Description

Port to CCIS6 routing label relation

This relation is obsolete, and removed in 5e14.

**Attribute:**
gport
**Fullname:**
Global port
**Attribute Description:**
The global port is divided into sub-attributes member and module. This is the same attribute as RLfc_trunk.port.

**Attribute:**
gport.member
**Fullname:**
Member associated with the port
**Attribute Description:**
Member is assigned a unique number starting with zero.

**Attribute:**
gport.module
**Fullname:**
Switching module number
**Attribute Description:**

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The module number is the same as RLfc_trunk.port.module. It indicates the SM number.

**Attribute:**
band
**Fullname:**
Band
**Attribute Description:**

**Attribute:**
bmem_num
**Fullname:**
Band member number
**Attribute Description:**

**Attribute:**
sl_group
**Fullname:**
Signaling link group
**Attribute Description:**

**Attribute:**
sl_mem
**Fullname:**
Signaling link member
**Attribute Description:**

**Attribute:**
sl_vlink
**Fullname:**
Signaling link virtual link
**Attribute Description:**

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# PRT7LAB

## 1. Description

This relation translates the internal representation of the CCS7 port (that is, module and member) to an external representation or routing label (destination point code (dpc) and circuit identification code (CIC)) and signaling selection value (SLS). Tuples are inserted or deleted for each insertion or deletion in RLlab7prt.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 24192 |
| expected number of tuples | 140 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | DBNO |

## 3. Field Layout

```
PRT7LAB     relid = 644   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     gport       DMGPORT      (struct)     <--- key, not stored, compacted
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     dpc         DMPT_CODE    (ulong: 24)
     sls         DMUCHAR      (uchar)
     opc         DMPT_CODE    (ulong: 24)
     pci         DMPCIDX      (uchar: 8)
     cic         DMCIC        (ushort: 14)
 (a) network     DMNETWORK    (enum: 1)
            User Tuple Layout   PRT7LAB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============ gport ============+===============|
    |                               |                |               |
  0 |              member           |****************|     module    |
    |===============+===============+================+===============|
    |                                                |               |
  4 |                       dpc                      |      sls      |
    |---------------+---------------+----------------+---------------|
    |                                                |               |
  8 |                       opc                      |      pci      |
    |---------------+---------------+----------------+---------------|
    |                             | |                                |
 12 |            cic              |a|********************************|
    |---------------+---------------+----------------+---------------|
       ( 16 bytes )
     gport       DMPORT       (ushort)     <--- key, not stored, compacted
     dpc         DMPT_CODE    (ulong: 24)
     sls         DMUCHAR      (uchar)
     opc         DMPT_CODE    (ulong: 24)
     pci         DMPCIDX      (uchar: 8)
     cic         DMCIC        (ushort: 14)
 (a) network     DMNETWORK    (enum: 1)
          Compacted Tuple Layout    PRT7LAB
```

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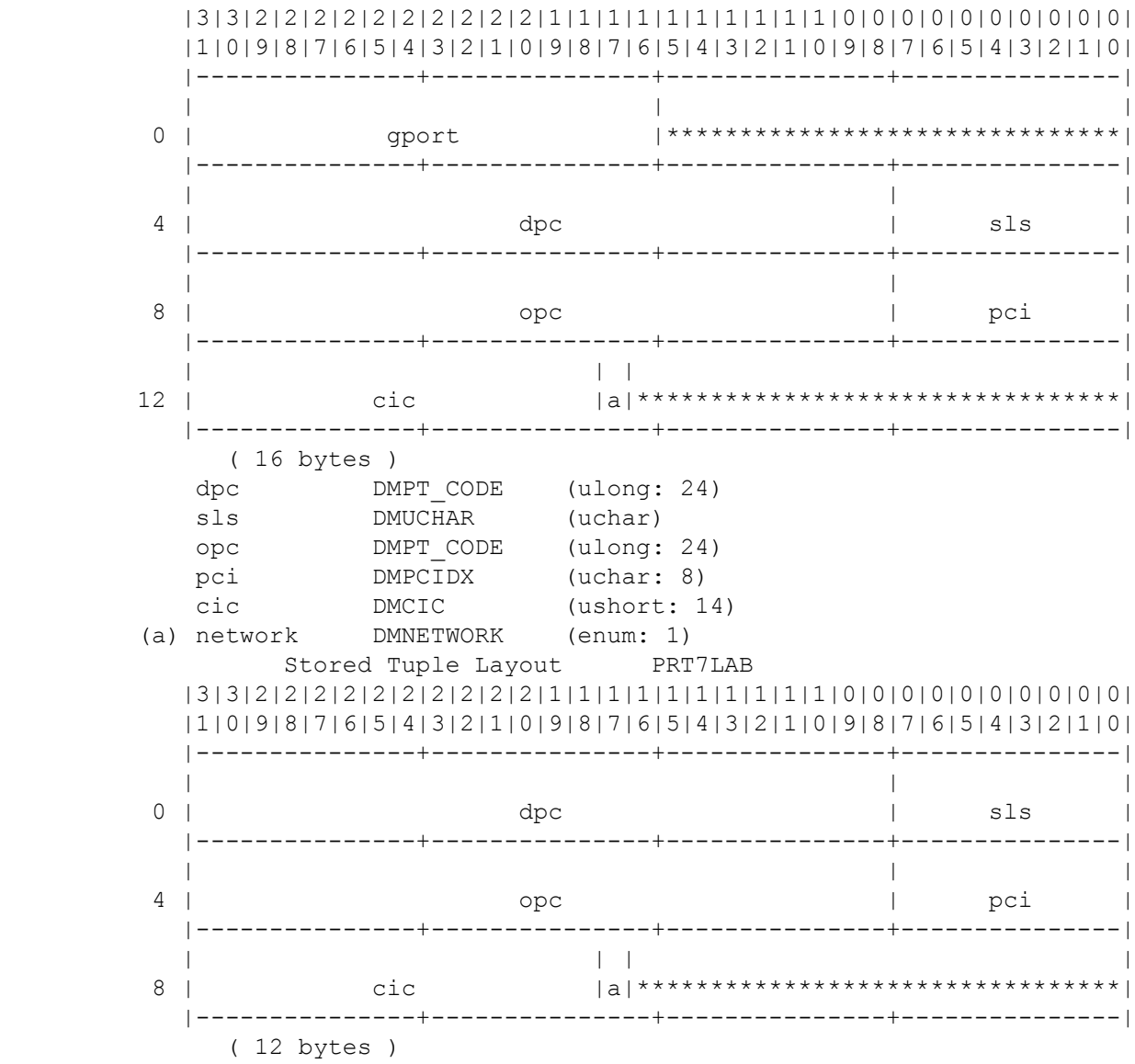


## 4. Population Rules for RLprt7lab

**Relation Description**
Global port to CCS7 routing label relation

This relation translates the internal representation of the CCS7 port (that is, module and member) to an external representation or routing label (destination point code (DPC) and circuit identification code (CIC)).

**Attribute: gport**

**Fullname:** Global port

**Attribute Description** A *5ESS*®-2000 switch global port in an office. It consists of the SM number and the member. This attribute has the same definition as RLfc_trunk.port.

**Attribute: gport.member**

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**Fullname:** Port member

**Attribute Description** The member number of the trunk on an SM.

**Attribute: gport.module**

**Fullname:** SM module number

**Attribute Description** Switching module that the trunk is associated with.

**Attribute: dpc**

**Fullname:** Destination point code

**Attribute Description** The DPC indicates the signaling point for the far-end office.
See RLlab7prt for more details.

**Attribute: opc**

**Fullname:** Origination point code

**Attribute Description** The OPC indicates the signaling point which is assigned to this office.
See RLlab7prt for more information.

**Attribute: network**

**Fullname:** Network.

**Attribute Description** This attribute is used to indicate the network to which the standardization sector (SS7) routing label refers.
See RLlab7prt for more information.

**Attribute: pci**

**Fullname:** Point Code Index

**Attribute Description** This attribute represents the point code index assigned to this DPC/OPC/network combination.
See RLlab7prt for more information.

**Attribute: cic**

**Fullname:** Circuit identification code

**Attribute Description** The CIC identifies the circuit (trunk) among those directly interconnecting the DPC and OPC.
See RLlab7prt for more information.

**Attribute: sls**

**Fullname:** Signaling link selection

**Attribute Description** The SLS value identifies the path link for all signaling messages for each trunk on a single T1 facility.
See RLlab7prt for more information.

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# PRTC

## 1. Description

Protocol circuit description for a metallic service unit.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4 |
| expected tuples in relation | 2 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
PRTC        relid = 204   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     prtcktname  DMCIRCUIT    (ushort)     <--- key
     prtcscanpt  DMPORT       (ushort)
     prtcdistpt  DMPORT       (ushort)
     prtcmtb     DMCIRCUIT    (ushort)
         User, Compacted and Stored Tuple Layout   PRTC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |           prtcktname          |           prtcscanpt          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |           prtcdistpt          |            prtcmtb            |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLprtc

**Relation Description**
Protocol circuit description for a metallic service unit

**Attribute: prtcktname**

**Fullname:** circuit name

**Attribute Description** Circuit name of the protocol circuit. Use CKTDATA relation, 'name' attribute associated with 'type' attribute enumeration PCMSPRTC. The circuit index for this circuit name should be ((sg+1) << 8 ) + 0x30.

**Attribute: prtcscanpt**

**Fullname:** scan point number

**Attribute Description** For modular MSU, it is not used and should be set to GLNULPORT.

**Attribute: prtcdistpt**

**Fullname:** starting distribute point number

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**Attribute Description** For modular MSU, it not used and should be set to GLNULPORT.

**Attribute: prtcmtb**

**Fullname:** metallic test bus number

**Attribute Description** For modular MSU, it not used and should be set to zero(0).

**Defines:**"db/DMport.h"

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# PRTTYP_R

## 1. Description

Port name to service class. This is a root storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65531 |
| expected tuples | 1556 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTORAGE |
| density | 80 |
| ks key store | AUTO |
| cluster | 64 |

## 3. Field Layout

```
PRTTYP_R    relid = 1646  DBSTORAGE  DBACC_CIND  DBPRAM    FP      NULL
     port        DMPORT       (ushort)  <--- key
     cktname     DMCIRCUIT    (ushort)
     port_indx   DMPORTINDX   (ushort)
     akey        DMGK14       (ulong: 14)
 (a) crftlock    DMBOOL       (enum: 1)
 (b) els_loss    DMBOOL       (enum: 1)
     skey        DMGK14       (ulong: 14)
     ckey        DMGK14       (ulong: 14)
 (c) lneqlock    DMBOOL       (enum: 1)
 (d) sleevind    DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   PRTTYP_R
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |              port             |            cktname            |
   |---------------+---------------+---------------+---------------|
   |                               |                           | | |
 4 |           port_indx           |            akey           |a|b|
   |---------------+---------------+---------------+---------------|
   |                           |                           | | |   |
 8 |            skey           |            ckey           |c|d|***|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population Rules for RLprttyp_r

There are no population rules for this relation.

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# PSBILLDN

## 1. Description

This relation defines billing directory number associated with a x.25 line.

— ISDN DSL D-channel user

— ISDN DSL B-channel

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8192 |
| expected tuples | 52 |
| density | 66 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
PSBILLDN    relid = 169   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     ph_number   DMPHNBR      (uchar: 7)     <--- key
     ph_cn       DMPHCN       (uchar: 7)     <--- key
     party       DMPARTY      (ushort: 4)     <--- key
     bill_dn     DMDN         (struct)     <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
            User Tuple Layout      PSBILLDN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |              | |            | |       |                      |
  0 |  ph_number  |*|    ph_cn    |*| party |**********************|
    |==============+========== bill_dn ==========+==============|
    |       |      |                                              |
  4 | digcnt|*******|                      dn                      |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                              |
  8 |                              dn                              |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                              |
 12 |                              dn                              |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                              |
 16 |                              dn                              |
    |==============+==============+==============+==============|
       ( 20 bytes )
     ph_number   DMPHNBR      (uchar: 7)     <--- key
     ph_cn       DMPHCN       (uchar: 7)     <--- key
     party       DMPARTY      (ushort: 4)     <--- key
     bill_dn     DMCDN        (struct)     <--- compacted
         dig8        DMUNS4       (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
```

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```
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
         Compacted Tuple Layout   PSBILLDN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               | |             | |       |                     |
 0  |  ph_number    |*|    ph_cn    |*| party |*********************|
    |===============+========== bill_dn ==========+===============|
    |       |       |       |       |       |       |       |       |
 4  |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
 8  | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
    |===============+===============+===============+===============|
    |                                                               |
 12 |***************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |***************************************************************|
    |---------------+---------------+---------------+---------------|
      ( 20 bytes )
    ph_number   DMPHNBR      (uchar: 7)     <--- key
    ph_cn       DMPHCN       (uchar: 7)     <--- key
    party       DMPARTY      (ushort: 4)     <--- key
    bill_dn     DMCDN        (struct)     <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
```

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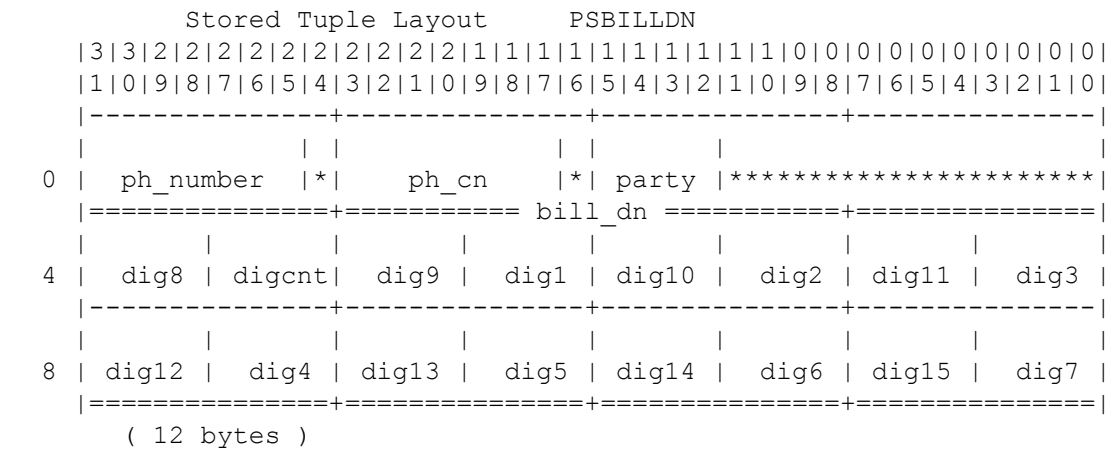


## 4. Population Rules for RLpsbilldn

**Relation Description**
Packet switching billing directory number

This relation defines a Packet Switching (PS) billing directory number which is different from the local directory number specified in the psx25ln relation.

**Attribute: ph_number**

**Fullname:** Protocol Handler (PH) number

**Attribute Description** Protocol Handler (PH) number (key1), range from 0 to 95. For efficient memory utilization, it should be assigned sequentially. The Protocol Handler number that a X.25 access on a T1 (XAT) port is assigned is determined by the PH number entered via RCV/ODA.

**Attribute: ph_cn**

**Fullname:** Protocol Handler (PH) channel number

**Attribute Description** Protocol Handler (PH) channel number (key2), also called DSL group member. Its range is from 0 to 127. For efficient memory utilization, it should be assigned sequentially. The Protocol Handler number that a X.25 access on a T1 (XAT) port is assigned is determined by the PH number entered via RCV/ODA.

**Attribute: party**

**Fullname:** Packet user within a ISDN DSL D-channel

**Attribute Description** Specific packet user within an ISDN DSL D-channel. There can be up to 8 packet user Service Order Profiles (SOPs) defined on an ISDN DSL D-channel. Permanent Packet B-channels (PPB) and On-Demand Packet B-channels (ODB) are populated with FCP_BCHAN. This attribute is not used by X.25 Access on a T1 (XAT) port, populate with FCP_INDI for XAT ports. Packet trunks are populated with FCP_PKTTRK.

**Attribute: bill_dn**

**Fullname:** Billing directory number

**Attribute Description** billing directory number which is different from the local directory number in

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psx25ln relation. If the billdn_flg attribute in psx25ln relation is DBYES, there must be a tuple in psbilldn relation. Otherwise, there is no need for a tuple in psbilldn relation since billing DN is the same as local DN. bill_dn is a 10 digit number, excluding * and #. It is in the format of npa-office code-4 digit local number for both E.164 and X.121 numbering plan.

**Attribute: bill_dn.digcnt**

**Fullname:** Digit count

**Attribute Description** The number of digits in RLpsbilldn.bill_dn.dn. For XAT ports which have fcltyp of PSX25, the digcnt member of rmt_dn will always be equal to 10 digits.

**Attribute: bill_dn.dn**

**Fullname:** Local number

**Attribute Description** A 10 digit number, excluding * and #. It is in the format of npa-office code-4 digit local number for both E.164 and X.121 numbering plan. For XAT ports the dn member of bill_dn must have 10 digits in the form of: npa (3 digits) + office code (3 digits) + station number ( 4 digits). This satisfies both the E.164 and X.121 numbering plans.

**Defines:** "db/DMnpanxx.h", "db/DMparty.h"

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# PSCSI_ID

## 1. Description

Packet switching clearing sub-network identifier.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| trigger function | RTrccsi_id |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ks key store | AUTO |

## 3. Field Layout

```
PSCSI_ID    relid = 1788  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
 (a) ofc_id      DMUNS1       (ushort: 1)  <--- key, not stored
     csi_id      DMPSCSI_ID   (ushort)
         User and Compacted Tuple Layout   PSCSI_ID
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | |                                                             |
  0 |a|*************************************************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             csi_id            |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     csi_id      DMPSCSI_ID   (ushort)
           Stored Tuple Layout     PSCSI_ID
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             csi_id            |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLpscsi_id

**Relation Description**
This relation stores the value of the clearing sub-network identifier (CSI) for the entire switch.

The CSI value was intended to be a global parameter but this data is needed in the PH and currently no mechanism exists for transporting a global parameter value to the PH. By placing the CSI value in this relation we are able to use static data transport to update the PH global data PScsi_id using trigger RTrccsi_id. The CSI value is inserted into the clearing subnetwork identification utility by the subnetwork when a virtual call is cleared from either an active or in progress state. The CSI value identifies the subnetwork that cleared the call. The valid range of the ID is 0000-9999. The relation exists in every ISDN loaded SM (FG with group type = GPDISDN).

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This relation is only used by X.75' trunks.

**Attribute: ofc_id**

**Fullname:** Office Identification Number

**Attribute Description** This attribute should always be populated with the value 0.

**Attribute: csi_id**

**Fullname:** Clearing Sub-Network Identifier

**Attribute Description** The attribute is used to define the clearing sub-network identifier for the switch. The valid range of values is 0-9999. Each digit is in packed BCD form.

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# PSCSTCUG

## 1. Description

This relation defines an index of a closed user group associated with a x.25 line:
- ISDN DSL D-channel user
- ISDN B-channel

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3064 |
| expected tuples in relation | 82 |
| density | 23 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| l1 length of subkey1, first 3 bit of ph_cn | 3 |
| p1 position of subkey1 | 16 |
| l2 length of subkey2, party bits | 3 |
| p2 position of subkey2 | 24 |
| l3 length of subkey3, all 8 and 7 bits of cust_cugx and ph_number | 15 |
| p3 position of subkey3 | 0 |
| l4 length of subkey4, last 4 bits of ph_cn | 4 |
| p4 position of subkey4 | 19 |
| ks key store | AUTO |
| ignore key bits | 23 |

## 3. Field Layout

```
PSCSTCUG    relid = 176   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     cust_cugx   DMPSCTCUGX   (uchar)  <--- key, not stored
     ph_number   DMPHNBR      (uchar: 7)  <--- key, not stored
     ph_cn       DMPHCN       (uchar: 7)  <--- key, not stored
     party       DMPARTY      (ushort: 4)  <--- key, not stored
     cug_code    DMPSCUGCD    (struct)
         dnic        DMPSDNIC     (ushort)
         icn         DMUSHORT     (ushort)
         User and Compacted Tuple Layout   PSCSTCUG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |             | |             |       |         |
  0 |   cust_cugx   |  ph_number  |*|    ph_cn    | party |*********|
    |===============+==========  cug_code ==========+===============|
    |                              |                                 |
  4 |              dnic            |              icn                |
    |===============+===============+===============+===============|
       ( 8 bytes )
     cug_code    DMPSCUGCD    (struct)
         dnic        DMPSDNIC     (ushort)
         icn         DMUSHORT     (ushort)
           Stored Tuple Layout     PSCSTCUG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+==========  cug_code ==========+===============|
    |                              |                                 |
  0 |              dnic            |              icn                |
```

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```
|===============+==============+==============+==============|
   ( 4 bytes )
```

## 4. Population Rules for RLpscstcug

**Relation Description**

This relation defines an index of a closed user group associated with a packet TN or packet MLHG member:

- ISDN DSL D channel user
- ISDN DSL ODB channel user
- ISDN DSL PPB channel user

The relation is the inverse relation of RLpscugcst.

As of 5E9, X.25 Packet Switching will no longer be supported by the PH2 Access Image. Members of Closed User Groups must reside on PH3's. In 5e10, members of Closed User Groups are supported on both PH3's and PH4's.

This relation associates an ISDN packet user TN or packet MLHG member with a closed user group (CUG) interlock code. A packet user may subscribe to any combination of ODB, PPB, B channel or D channel packet switching services each with its own unique packet TN or packet MLHG member.

The CUG index is uniquely assigned on a per packet TN or packet MLHG member basis. Below are examples of valid and invalid assignments of CUG indexes to CUG interlock codes (DNIC and ICN):

Valid CUG assignments

| Packet TN ** | CUG IDX | DNIC | ICN |
|---|---|---|---|
| DSL1, ODB PKT USER | 1 | 3105 | 6 |
| | 2 | 3103 | 1 |
| DSL1, PPB PKT USER | NONE | | |
| DSL1, D PKT USER | 1 | 3108 | 2 |
| | 2 | 3105 | 6 |
| DSL1, B PKT USER | NONE | | |
| DSL2, D PKT USER | 2 | 3105 | 6 |
| DSL2, B PKT USER | 2 | 3108 | 4 |
| DSL2, PPB PKT USER | 2 | 3105 | 9 |

** Each PKT User has a unique PKT TN

Invalid CUG assignments

| Packet User | CUG IDX | DNIC | ICN |
|---|---|---|---|
| DSL1, ODB PKT USER | 1 | 3104 | 3 |
| | 2 | 3104 | 3 |

**Attribute: cust_cugx**

**Fullname:** Customer Closed User Group index.

**Attribute Description** Two (2) HEX digits A through F are not allowed. Any value within the range can be populated (0x00 through 0x99).

Initially, there is no CUG assigned to the DSL, rlPSX25LN.cug_hindx is set to FF. When the first CUG (not necessary that cust_cugx is equal to 1) is assigned, rlPSX25LN.cug_hindx must be set to cust_cugx. For the subsequent CUG assignments, if the new cust_cugx > current value of rlPSX25LN.cug_hindx, then rlPSX25LN.cug_hindx must set to the new cust_cugx: otherwise, rlPSX25LN.cug_hindx remains the same.

cust_cugx is provisioned on a per DSL packet TN or packet MLHG member basis and each cust_cugx assigned to a specific packet TN or packet MLHG member must be unique. Refer to the

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general section for examples of correct and incorrect cust_cugx assignments.

The checks for this attribute in relation to CUG CODE are located at the beginning of the check section for the entire relation.

**Attribute: ph_number**

**Fullname:** PH number.

**Attribute Description** PH number, also called DSL group number.
The protocol handler number that a X.25 access on a T1 (XAT) port is assigned is determined by the PH number entered using RCV/ODA.

As of 5E9, X.25 Packet Switching will no longer be supported by the PH2 Access Image. Members of Closed User Groups must reside on PH3's. In 5e10, members of Closed User Groups are supported on both PH3's and PH4's.

**Attribute: ph_cn**

**Fullname:** Protocol Handler channel number of the DSL group member number

**Attribute Description** PH channel number, also called DSL group member. Its range is from 0 to 127.

The protocol handler channel number that a X.25 access on a T1 (XAT) port is assigned is determined by the PH channel number entered on the (T1 packet switching channel assignment) view.

**Attribute: party**

**Fullname:** DSL D-channel multipoint party

**Attribute Description** Specific packet user within an ISDN DSL D-channel. There can be up to 8 packet user service order profiles (SOP)s defined on an ISDN DSL D-channel.

Permanent packet B-channels (PPB) and on-demand packet B-channels (ODB) are populated with FCP_BCHAN(0). Packet trunks are populated with FCP_PKTTRK(0).
This attribute is not used by X.25 access on a T1 (XAT) port, populate with FCP_INDI(0) for XAT ports.

**Attribute: cug_code**

**Fullname:** Closed User Group Interlock Code

**Attribute Description** All DSL packet TNs or packet MLHG members that belong to the same closed user group (CUG) must have the same cug_code. The relationship of the CUG interlock code with the CUG index is described in the general section.
The checks for this attribute in relation to CUG IDX are located at the beginning of the CHECK section in the *5ESS®-2000 Switch Population Rules Language Data Manual* (235-600-123) for the entire relation.

**Attribute: cug_code.dnic**

**Fullname:** Data network ID code.

**Attribute Description** Data network identification code (DNIC) of the network of the coordinating

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administration or recognized private operating agency (RPOA) 4 BCD digits, range is 0001-9999. No default value. Hex digits A through F are not allowed. If all the members of a closed user group are within the same network, the DNIC is that of the home network. Otherwise, One of the networks involved will be designated as the coordinating administration upon a mutual agreement.

**Attribute: cug_code.icn**

**Fullname:** International Closed User Group.

**Attribute Description** A 16 bit binary number assigned by the CUG coordinating administration or RPOA. This value is unique for each CUG belonging to the same network.
No default value.

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# PSCUG_IIC

## 1. Description

Packet Switching X.75 Trunk Closed User Group International Interlock Code (PSCUG_IIC) list.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1600 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| foldtype | DBGC31 |

## 3. Field Layout

```
PSCUG_IIC   relid = 1792  DBSTATIC   DBACC_HASH  DBPRAM    FG      RCMAP
     iic_code    DMPSCUGCD    (struct)     <--- key
         dnic        DMPSDNIC     (ushort)
         icn         DMUSHORT     (ushort)
     cuglist_id  DMPSIIC_CN   (ushort: 11)     <--- key
         User, Compacted and Stored Tuple Layout  PSCUG_IIC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+==========  iic_code ==========+===============|
    |                                |                               |
  0 |              dnic              |              icn              |
    |===============+===============+===============+===============|
    |                       |                                       |
  4 |      cuglist_id       |***************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLpscug_iic

**Relation Description**
Closed User Group International Interlock Codes

This relation stores X.75 trunk group Closed User Group (CUG) International Interlock Code (IIC) lists. The lists are identified by a unique CUG List ID number. Each List ID number may have up to 100 unique IIC's provisioned. There is a maximum of 1600 IIC's for the entire switch which can be spread across all provisioned X.75 trunk groups. The global parameter Gliic_cnt is used by recent change to check if the relation is full (contains 1600 IIC's). The relation is populated on the CMP and all Loaded ISDN SMs. This relation is only used for X.75 trunk groups.

**Attribute: cuglist_id**

**Fullname:** Closed User Group International Interlock Code List ID Number

**Attribute Description** This attribute is used to define the Closed User Group (CUG) List ID Number associated with a list of CUG International Interlock Codes (IICs). The CUG List ID is assigned to X.75 trunk groups in the relation RLpsl3trkg and may have up to 100 tuples with the same CUG List ID number. The value 0 may not be used. The valid range of values for tuple is 1

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thru 1600.

**Attribute: iic_code**

**Fullname:** International Interlock Code

**Attribute Description** Attribute is used to store an International Interlock Code (IIC) which consists of a Data Network Identification Code (DNIC) and an International Closed User Group Number (ICN). The IIC is linked to an X.75 trunk group via the Closed User Group ID number. Both the DNIC and ICN values must be unique for every unique value of the cuglist_id attribute. This restriction is enforced by all attributes being keys of the relation and thus no PRL checks are necessary.

**Attribute: iic_code.dnic**

**Fullname:** Closed User Group Data Network Identification Code

**Attribute Description** DNIC (Data Network Identification Code) of the network of the coordinating administrator or RPOA (Recognized Private Operating Agency). The values are BCD digits and range from 0001-9999. Hex digits A through F are not allowed. The value must be unique for every RLpscug_iic.cuglist_id. If all the members of a closed user group are within the same network, the DNIC is that of the home network. Otherwise, one of the networks involved will be designated as the coordinating administrator upon a mutual agreement.

**Attribute: iic_code.icn**

**Fullname:** International Closed User Group number

**Attribute Description** A 16 bit binary number assigned by the CUG coordinating administrator or RPOA. This value is unique for each CUG belonging to the same network and must also be unique per RLpscug_iic.cuglist_id. There is no default value.

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# PSCUGCST

## 1. Description

This relation defines an index of a closed user group associated with a x.25 line:
- ISDN DSL D-channel user
- ISDN B-channel

It is the inverse relation of RLpscstcug.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1500 |
| expected tuples in relation | 82 |
| density | 55 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| foldtype | DBGC31 |

## 3. Field Layout

```
PSCUGCST    relid = 1312  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     cug_code    DMPSCUGCD    (struct)  <--- key
         dnic        DMPSDNIC     (ushort)
         icn         DMUSHORT     (ushort)
     cust_cugx   DMPSCTCUGX   (uchar)
     ph_number   DMPHNBR      (uchar: 7)  <--- key
     ph_cn       DMPHCN       (uchar: 7)  <--- key
     party       DMPARTY      (ushort: 4)  <--- key
         User, Compacted and Stored Tuple Layout   PSCUGCST
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+==========  cug_code ==========+===============|
    |                               |                               |
  0 |               dnic            |               icn             |
    |===============+===============+===============+===============|
    |                |              | |             |       |       |
  4 |   cust_cugx    |  ph_number   |*|    ph_cn    | party |*********|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLpscugcst

**Relation Description**

This relation defines a closed user group associated with a packet TN or packet MLHG member:
- ISDN DSL D channel user
- ISDN DSL ODB channel user
- ISDN DSL PPB channel user

The relation is the inverse relation of RLpscstcug.
X.25 packet switching will no longer be supported by the PH2 access image. Members of closed user groups must reside on PH3's.

This relation associates an ISDN packet user TN or packet MLHG member with a closed user group (CUG) interlock code. A packet user may subscribe to any combination of ODB, PPB, B channel or D channel packet switching services each with its own unique packet TN or packet MLHG member.

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The CUG index is uniquely assigned on a per packet TN or packet MLHG member basis. Below are examples of valid and invalid assignments of CUG indexes to CUG interlock codes (DNIC and ICN):

Valid CUG assignments

| Packet TN ** | CUG IDX | DNIC | ICN |
|---|---|---|---|
| DSL1, ODB PKT USER | 1 | 3105 | 6 |
| | 2 | 3103 | 1 |
| DSL1, PPB PKT USER | NONE | | |
| DSL1, D PKT USER | 1 | 3108 | 2 |
| | 2 | 3105 | 6 |
| DSL1, B PKT USER | NONE | | |
| DSL2, D PKT USER | 2 | 3105 | 6 |
| DSL2, B PKT USER | 2 | 3108 | 4 |
| DSL2, PPB PKT USER | 2 | 3105 | 9 |

** Each PKT User has a unique PKT TN

Invalid CUG assignments

| Packet User | CUG IDX | DNIC | ICN |
|---|---|---|---|
| DSL1, ODB PKT USER | 1 | 3104 | 3 |
| | 2 | 3104 | 3 |

**Attribute: cug_code**

**Fullname:** Closed User Group Interlock Code

**Attribute Description** All the DSL packet TNs or packet MLHG members that belong to the same closed user group (CUG) must have the same cug_code. The relationship of the CUG interlock code with the CUG index is described in the general section.

The checks for this attribute in relation to CUG IDX are located at the beginning of the check section for the entire relation.

**Attribute: cug_code.dnic**

**Fullname:** data network identification code

**Attribute Description** Data network identification code (DNIC) of the network of the coordinating administration or recognized private operating agency (RPOA) 4 BCD digits, range from 0001-9999. Hex digits A through F are not allowed. If all the members of a closed user group are within the same network, the DNIC is that of the home network. Otherwise, One of the networks involved will be designated as the coordinating administration upon a mutual agreement.

**Attribute: cug_code.icn**

**Fullname:** International Closed User Group

**Attribute Description** A 16 bit binary number assigned by the CUG coordinating administration or RPOA. This value is unique for each CUG belonging to the same network.

No default value.

**Attribute: ph_number**

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**Fullname:** PH number

**Attribute Description** PH number, also called DSL group number.
The protocol handler number that a X.25 access on a T1 (XAT) port is assigned is determined by the PH number entered via RCV/ODA.

X.25 packet switching will no longer be supported by the PH2 access image. Members of closed user groups must reside on PH3's.

**Attribute: ph_cn**

**Fullname:** Protocol handler channel number of DSL group member number

**Attribute Description** The protocol handler channel number that an X.25 access on a T1 (XAT) port is assigned.

**Attribute: party**

**Fullname:** DSL D channel multipoint party

**Attribute Description** Specific user within an ISDN D-channel.

**Attribute: cust_cugx**

**Fullname:** Customers closed user group index

**Attribute Description** Two HEX digits, range from 00 to 99. HEX digits A through F are not allowed.

Initially, when there is no CUG assigned to a PH channel, the attribute cug_hindx in the RLpsx25ln relation is set to 0xFF. When the first CUG (not necessary that cust_cugx is equal to 1) is assigned, the attribute cug_hindx in the RLpsx25ln relation must be assigned the value of this attribute cust_cugx.

For the subsequent CUG assignments, if the new of cust_cugx is greater than the current value of the attribute cug_hindx in the RLpsx25ln relation, then the value of the attribute cug_hindx in the RLpsx25ln relation must be assigned the new value of this attribute cust_cugx. Otherwise, the value of the attribute cug_hindx in the RLpsx25ln relation will remain the same.
cust_cugx is provisioned on a per DSL packet TN or packet MLHG member basis and each cust_cugx assigned to a specific packet TN or packet MLHG member must be unique. Refer to the general section for examples of correct and incorrect cust_cugx assignments.

The checks for this attribute in relation to CUG CODE are located at the beginning of the check section for the entire relation in the *Populations Rules Language Data Manual* (235-600-123).

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# PSDNICRI

## 1. Description

This relation defines route index for a data network to route an internetwork call via X.75 or X.75 prime facility.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
PSDNICRI    relid = 178   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     iecp_cnt    DMUNL20      (ulong: 20)
     route_x     DMRTEIDX     (ushort: 12)
     dnic        DMPSDNIC     (ushort)  <--- key
         User, Compacted and Stored Tuple Layout   PSDNICRI
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                       |                       |
  0 |                 iecp_cnt              |        route_x        |
    |---------------+---------------+---------------+---------------|
    |                                 |                             |
  4 |              dnic               |*****************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLpsdnicri

**Relation Description**
This relation defines the route index for a data network to route an internetwork call via X.75, X.75', or an IP facility.

Three types of inter-network packet call setup need to access this relation:

(1) The far end of a PVC (permanent virtual circuit) is in another packet network which dnic is in RLpspvcinf.rmt_dnic. To determine the trunk to route this type of call, there must be a matching tuple in psdnicri relation such that RLpspvcinf.rmt_dnic = dnic.

(2) An internetwork virtual call is requested without recognized private operating agency (RPOA) service. The preselected inter-exchange carrier is determined from RLpsx25ln.iecp_dnic. Therefore, there must be matching tuples in this relation such that RLpsx25ln.iecp_dnic = dnic. This relation is populated before the RLpsx25ln relation for recent change/verify (RC/V).

(3) An internetwork call is requested with RPOA service. The customer must specify the DNIC of the RPOA. Therefore, the DNIC selected by the customer on a per call basis must have a matching tuple in this relation.

**Attribute: dnic**

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**Fullname:** Data network identification code.

**Attribute Description** A 4-digit BCD code that identifies a data network. The range of valid values for this attribute is 0x0001 through 0x9999. The hex digits A through F are not allowed. The hex digit restriction is enforced in the attribute check section.

**Attribute: route_x**

**Fullname:** Route Index

**Attribute Description** The route index of the trunk group that routes an internetwork call via an X.75, X.75', or IP trunk.

**Attribute: iecp_cnt**

**Fullname:** IECP Usage Count

**Attribute Description** The iecp_cnt attribute specifies the number of RLpsx25ln tuples having an inter-exchange carrier preselect DNIC (iecp_dnic) equal to the DNIC of a RLpsdnicri tuple.

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# PSGP_LDN

## 1. Description

MLHG group and member to linear entry point DN.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| l1 length of subkey1 | 5 |
| p1 position of subkey1 | 0 |
| l2 length of subkey2, first 7 bits of member | 7 |
| p2 position of subkey2 | 16 |
| l3 length of subkey3, last 8 bits of grpnum | 8 |
| p3 position of subkey3 | 5 |
| l4 length of subkey4, last 5 bits of member | 5 |
| p4 position of subkey4 | 23 |
| ks key store | DBNO |

## 3. Field Layout

```
PSGP_LDN    relid = 1793  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     grpnum      DMGRUPNM     (ushort: 13)     <--- key, not stored
     member      DMMEM        (ushort: 12)     <--- key, not stored
     dn          DMLOCDN      (struct)     <--- compacted
         noc         DMNOC        (ushort: 8)
         digits      DMLOCDIG     (array [ 4 ] of char )
            User Tuple Layout      PSGP_LDN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           |     |                         |       |
  0 |           grpnum          |*****|          member         |*******|
    |===============+=============  dn ==========+===============|
    |                |               |                           |
  4 |****************|      noc      |             digits        |
    | - - - - - - - - + - - - - - - - + - - - - - - - - + - - - - - - - |
    |                           |                           |
  8 |              digits       |***************************|
    |===============+===============+===============+===============|
       ( 12 bytes )
     grpnum      DMGRUPNM     (ushort: 13)     <--- key, not stored
     member      DMMEM        (ushort: 12)     <--- key, not stored
     dn          DMCLOCDN     (struct)     <--- compacted
         noc         DMNOC        (ushort: 8)
         dig3        DMUNS4       (ushort: 4)
         dig1        DMUNS4       (ushort: 4)
         dig4        DMUNS4       (ushort: 4)
         dig2        DMUNS4       (ushort: 4)
          Compacted Tuple Layout   PSGP_LDN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
```

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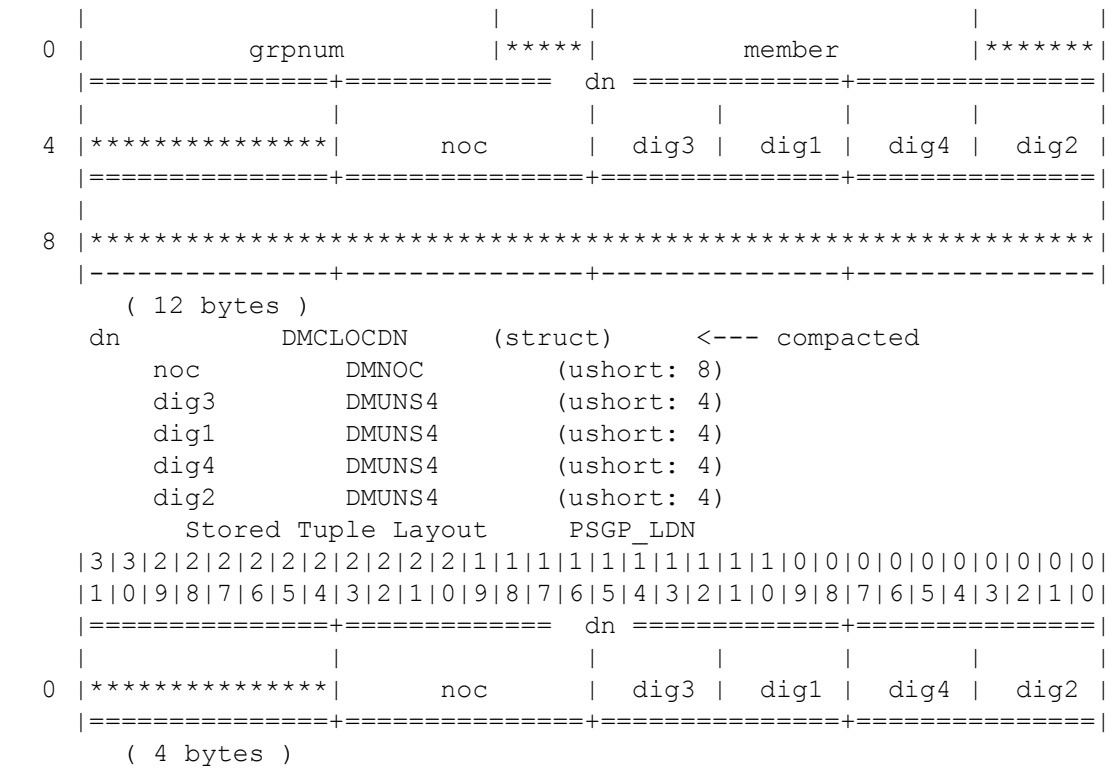


## 4. Population Rules for RLpsgp_ldn

**Relation Description**
Packet Switching Multi-Line Hunt Group To Linear DN Information

This relation is used for the calling address (that is, directory number) verification. When the calling address is specified in an X.25 Call Request packet for origination, packet routing must verify its validity. The calling address can be the linear DN associated with the originating packet MLHG member. For each member of a packet MLHG, that has a linear entry point DN assigned, there will be a tuple populated in this relation. This relation is used in the screening of the X.25 Call Request packet for a packet MLHG member. If a linear entry point DN is assigned to a packet MLHG member, then the member can use its linear DN as the calling address. For example: grpnum = 30 member = 10 has the linear entry point DN 979-2000. When the X.25 Call Request is received from the port associated with packet MLHG 30 member 10, a valid calling address could be 979-2000.

**Attribute: grpnum**

**Fullname:** Group Number

**Attribute Description** This attribute specifies the group number for a packet switching Multi-Line Hunt Group (MLHG) that has a linear hunting algorithm associated with it. There must be a corresponding tuple in RLpsldn_gp and the hunt type in RLrt_mhg must be PSUCD or PSLGUCD. The noc for the group linear entry point DN in RLpsmhgdnr must not equal 0. This check is done in RLpsldn_gp. For member 1, the linear DN in this relation must match the group's linear entry point DN in RLpsmhgdnr. This check is done in RLpsldn_gp.

**Attribute: member**

**Fullname:** Member Number

**Attribute Description** This attribute specifies the MLHG member number

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**Attribute: dn**

**Fullname:** Directory Number

**Attribute Description** This attribute consists of the Normalized Office Code (NOC) and the four directory number digits.

**Attribute: dn.noc**

**Fullname:** Normalized Office Code

**Attribute Description** This is the normalized office code for the linear entry point DN

**Attribute: dn.digits**

**Fullname:** Directory Digits

**Attribute Description** These are the local directory digits for the linear entry point DN.

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# PSGP_PRT

## 1. Description

This relation contains information used to map a packet switching Multi-Line Hunt Group or Trunk Group and member number to a packet switching port name.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 12752 |
| expected tuples in relation | 7 |
| density | 6 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | GPRTG |
| relation type | DBSTATIC |
| l1 length of subkey1 | 5 |
| p1 position of subkey1 | 0 |
| l2 length of subkey2, first 7 bits of member | 7 |
| p2 position of subkey2 | 16 |
| l3 length of subkey3, last 8 bits of grpnum and ptype | 9 |
| p3 position of subkey3 | 5 |
| l4 length of subkey4, last 5 bits of member | 5 |
| p4 position of subkey4 | 23 |
| ks key store | AUTO |
| trigger function | MSpstgtrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
PSGP_PRT    relid = 811   DBSTATIC   DBACC_CIND  DBPRAM    LPFPFG  GPRTG
     grpnum       DMGRUPNM     (ushort: 13)     <--- key, not stored
 (a) ptype        DMPTYPE      (enum: 1)     <--- key, not stored
     member       DMMEM        (ushort: 12)     <--- key, not stored
     qkey         DMUNS16      (ushort)
     module       DMMODULE     (ushort: 8)
     ph_number    DMPHNBR      (uchar: 7)
 (b) chan_sel     DMBOOL       (enum: 1)
     ph_cn        DMPHCN       (uchar: 7)
     tsi_link     DMLINKNO     (ushort: 6)
 (c) deactive     DMBOOL       (enum: 1)
     vpidb        DMVPIDB      (ushort: 6)
     party        DMPARTY      (ushort: 4)
         User and Compacted Tuple Layout   PSGP_PRT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           | |   |                       |       |
  0 |           grpnum          |a|***|         member        |*******|
    |---------------+---------------+---------------+---------------|
    |                               |               |             | |
  4 |              qkey             |     module    |  ph_number  |b|
    |---------------+---------------+---------------+---------------|
    |               |           | |   |           |       |           |
  8 |    ph_cn      |  tsi_link |c|***|   vpidb   | party |***********|
```

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```
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
     qkey         DMUNS16      (ushort)
     module       DMMODULE     (ushort: 8)
     ph_number    DMPHNBR      (uchar: 7)
 (a) chan_sel     DMBOOL       (enum: 1)
     ph_cn        DMPHCN       (uchar: 7)
     tsi_link     DMLINKNO     (ushort: 6)
 (b) deactive     DMBOOL       (enum: 1)
     vpidb        DMVPIDB      (ushort: 6)
     party        DMPARTY      (ushort: 4)
           Stored Tuple Layout     PSGP_PRT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |             | |
  0 |              qkey             |     module    |  ph_number  |a|
    |---------------+---------------+---------------+---------------|
    |             |           | |   |           |       |           |
  4 |    ph_cn    |  tsi_link |b|***|   vpidb   | party |***********|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLpsgp_prt

**Relation Description**
Packet Switching Group number to Port.

This relation contains information used to map a packet switching Multi-Line Hunt Group or Trunk Group and member number to a packet switching port name. The provisionable deactive/active status, for hunted calls only, is also stored in this relation. If rlRT_MHG.htype = RTH_PSUCD or RTH_PSLGUCD, there must be tuples with number equal to rl_RT_MHG.size in the PSGP_PRT relation such that rlPSGP_PRT.grpnum = rlRT_MHG.grpnum. If rlRT_TRKG.htype = RTH_PSUCD, there must be tuples with number equal to rl_RT_TRKG.act_size in the PSGP_PRT relation such that rlPSGP_PRT.grpnum = rlRT_TRKG.grpnum. All the groups in the rt_mpg or rtdnmpg relation must be in this relation

```
Servclass in fc_porttyp relation:
        If ptype is TM_LINE,
           service class of the DSL must be FC_ISDN or TM_XDB.
        If ptype is TM_TRK,
           service class of the trunk group must be
           PSPKT_TRK or PSX75P_TK in the fc_porttyp relation.
           The trunk group is of the 2-way T1 facility type.
```

Line configuration for packet switching: As of 5E9, all Packet Line MLHG Members must reside on PH3's since they will no longer be supported on the PH2 Access Image.

```
TUPLE SEMANTICS for a Packet Line MLHG Member
---------------------------------------------
grpnum              Group Number
ptype               TM_LINE
member              Member Number
module              Switching Module Number
ph_number           Protocol Handler Number
ph_cn               Protocol Handler Channel Number
party               Party
qkey                Arbitrary Key (0)
```

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```
chan_sel            Channel Selection
deactive            Deactivation
```

Trunk group configuration for packet switching: The following rules apply for Internal Protocol (IP) trunks:

(1) Service class of the IP trunk group must be PSPKT_TRK in fc_porttyp relation.

(2) There will be a maximum of 16 IP trunk groups for each *5ESS*®-2000 switch.

(3) Each IP trunk group will have a maximum of 32 trunk members.

(4) All IP trunks in a trunk group will terminate on the same SM.

(5) Only one trunk member will terminate on a PH2.

(6) From 1 to 6 trunk members may terminate on a PH3 or PH4 as long as all of the trunk members are IP trunk members.

(7) The trunk group is 2_way.

The following rules apply for X.75' trunks:

(1) There can be 255 X.75' trunk groups (per office) with a maximum of 24 trunk members per group.

(2) There is a limit of 25 X.75' trunk groups on a given SM.

(3) The trunk group is a 2-way T1 facility.

(4) Only one trunk member will terminate on a PH2.

(5) From 1 to 6 trunk members may terminate on a PH3 or PH4 as long as all of the trunk members are X.75' trunk members and all trunk member ports terminate in the same SM. It is recommended that only 4 trunk members are put on a given PH3 or PH4.

(6) The service class of each member in fc_porttyp is PSX75P_TK.

(7) X.75' trunk members can reside on different SMs.

(8) All the trunk members in a X.75' trunk group can be split among non-remoted SMs and can not be split between RSMs, ORMs or TRMs, that is, if any RSM, ORM or TRM contains X.75' trunk members it must contain the whole group.

The following rules apply for X.75 trunks:

(1) There can be 255 X.75 trunk groups (per office) with a maximum of 24 trunk members each.

(2) There is a limit of 25 X.75 trunk groups on a given SM.

(3) The trunk group is a 2-way T1 facility.

(4) Only one trunk member will terminate on a PH2.

(5) From 1 to 6 trunk members may terminate on a PH3 or PH4 as long as all of the trunk members are X.75 trunk members and all trunk member ports terminate in the same SM. It is recommended that only 4 trunk members are put on a given PH3.

(6) The service class of each member in fc_porttyp is PSX75_TK.

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(7) All the trunk members in a X.75 trunk group can be split among non-remoted SMs and can not be split between RSMs, ORMs or TRMs, that is, if any RSM, ORM or TRM contains X.75 trunk members it must contain the whole group.

The total combined number of Packet Trunks (IP, X.75, X.75') on any given Loaded SM is 25. This may consist of any number of types following the previous limits for the three types.

```
TUPLE SEMANTICS for a Packet Trunk Member
-----------------------------------------
grpnum          Group Number
ptype           TM_TRK
member          Member Number
module          Switching Module Number
ph_number       Protocol Handler Number
ph_cn           Protocol Handler Channel Number
party           Party
qkey            Arbitrary Key
chan_sel        Channel Selection (DBNO)
deactive        Deactivation (DBNO)"
```

**Attribute: grpnum**

**Fullname:** Group Number.

**Attribute Description** Group number of a packet trunk group, modem pool group or packet Multi-Line Hunt Group (MLHG). For an X.75 trunk group, all trunk group member entries in RLfc_porttyp must have servclass=PSX75_TK. There can be 255 X.75 trunk groups per office and there may be 25 X.75 trunk groups per SM with a maximum of 24 trunk members per trunk group; however, all the trunk members in a X.75 trunk group can only be split among non-remoted SMs and cannot be split between RSMs, ORMs or TRMs, that is, if any RSM, ORM or TRM contains X.75 trunk members it must contain the whole group. For an X.75' trunk group, all trunk group member entries in RLfc_porttyp must have servclass=PSX75P_TK. There can be 255 X.75' trunk groups per office and there may be 25 X.75' trunk groups per SM with a maximum of 24 trunk members per trunk group; however, all the trunk members in a X.75' trunk group can only be split among non-remoted SMs and cannot be split between RSMs, ORMs or TRMs, that is, if any RSM, ORM or TRM contains X.75' trunk members it must contain the whole group. For an IP trunk group, all trunk group member entries in RLfc_porttyp must have servclass=PSPKT_TRK. Packet trunk groups may have up to 25 tuples consisting of up to 16 IP trunk groups, up to 25 X.75' trunk group or up to 25 X.75 trunk groups. This is enforced by both RC/V and ODA.

**Attribute: ptype**

**Fullname:** Port Type for the group.

**Attribute Description** Indicates whether this group member supports trunk or line types of service. For X.25 access on a T1 (XAT) ports, populate this attribute with TM_LINE. For X.75, X.75' and IP trunks, populate this attribute with TM_TRK.

**Attribute: member**

**Fullname:** Member number.

**Attribute Description** Group member number.

```
1 - 2015 for ps multiline group or modem pool group,
```

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```
0 -   31 for IP trunk groups,
0 -   23 for X.75' trunk groups,
0 -   23 for X.75 trunk groups,
```

**Attribute: module**

**Fullname:** Switching Module number.

**Attribute Description** Switching Module where the port is located.

**Attribute: ph_number**

**Fullname:** Protocol Handler number.

**Attribute Description** The Protocol Handler (PH) number that a X.25 access on a T1 (XAT) port is assigned is determined by the PH number entered on the (T1 PACKET SWITCHING CHANNEL ASSIGNMENT) view. As of 5E9, all Packet Line MLHG Members must reside on PH3's since they will no longer be supported on the PH2 Access Image.

**Attribute: ph_cn**

**Fullname:** Protocol Handler Channel number.

**Attribute Description** The Protocol Handler channel number that a X.25 access on a T1 (XAT) port is assigned is determined by the PH channel number entered on the (T1 PACKET SWITCHING CHANNEL ASSIGNMENT) view. Channel number range is 0 - 127. If the port is an X.75, X.75' or IP trunk then ph_cn must be 0 if the PH is of type PH2. If the port is an X.75, X.75' or IP trunk and the PH is of type PH3 or PH4 then ph_cn may be (0,4,8...20) in even multiples of four as long as all members on a given PH3 or PH4 are of the same trunk level 2 profile and all of the ports are equipped on the same SM. It is recommended that a maximum of 4 X.75' or X.75 trunk members be assigned to a given PH3 or PH4.
HARDWARE CONVERSION NOTE:
If the PH3 or PH4 is to be converted to a PH2 only 1 member may be assigned to the PH3 or PH4 and the 'member' attribute must equal 0 otherwise the conversion will be blocked!

**Attribute: party**

**Fullname:** Party.

**Attribute Description** The specific packet user within an ISDN DSL D-channel. There can be up to 8 packet user Service Order Profiles (SOPs) defined. The following symbolic use of numeric party value is defined:

```
FCP_INDI        0       individual lines
FCP_TRUNK       0       trunks
FCP_BCHAN       0       B-channel packet-switching
FCP_DFLTSRV     0       Default Service
FCP_PKTTRK      0       Packet trunks
FCTP_RNG        1       ring side of two party line
FCTP_TIP        2       tip side of two party line
```

Permanent Packet B-Channels (PPB) are populated with FCP_BCHAN. Packet trunks are populated with FCP_PKTRK. This attribute is not used by X.25 access on a T1 (XAT) port, populate with FCP_INDI for XAT ports.

**Attribute: tsi_link**

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**Fullname:** Time Slot Interchanger (TSI) link associated with the port

**Attribute Description** This attribute is the TSI link associated with the port. It is used to support fast port inhibit. This attribute is only used for trunks assigned to the following trunk units: SMDNU_S, and SMDLTU2.

**Attribute: vpidb**

**Fullname:** Virtual Peripheral Interface Data Bus

**Attribute Description** This attribute identifies the channel on a Peripheral Control and Timing (PCT) link associated with the port. This attribute identifies the PIDB on a DX. The PIDB is associated with a Digital Line Trunk Unit-2 (DLTU2) facility. This attribute is only used for facilities assigned to the following trunk units: SMDNU_S, and SMDLTU2.

**Attribute: qkey**

**Fullname:** Arbitrary key.

**Attribute Description** If ptype is TM_LINE, set qkey equal to 0, else set qkey equal to the index value from RLqkeyport. For X.25 access on a T1 (XAT) ports, the attribute ptype will be TM_LINE. Therefore, populate qkey with 0 for XAT ports.

**Attribute: chan_sel**

**Fullname:** Channel selection

**Attribute Description** Specifies whether channel selection applies. Channel selection means that there are two or more channels with X.25 packet services that together make up one packet MLHG member. The port in this relation will be the equal the port for the first assigned channel in RLcdnchan. There is no longer a one to one mapping between RLpsgp_prt and RLpsprt_gp. When channel selection applies there will only one port in RLpsgp_prt associated with this group and member. That port will be the same as the first assigned channel in RLcdnchan. Channel selection is only valid for a packet MLHG member with a port type of TM_LINE

**Attribute: deactive**

**Fullname:** Deactive/Active Packet Multi-LIne Hunt Group Indicator

**Attribute Description** Indicates the deactive/active hunt status of a packet Multi-Line Hunt Group member. If DBYES, then the member will be marked busy for hunted calls. This means that a deactivated packet MLHG member will always be considered busy for calls made to the group PSUCD DN or a linear entry point DN. The deactivation/activation status has no effect on non-hunted calls, which are calls made to a MLHG member using its individual DN. Deactivation only applies for a packet MLHG member with a port type of TM_LINE. Deactivation is not valid for a packet modem pool member. When deactivation is yes, then the status for the member in RLrt_mem or RLrt_lgmem must equal 0. Deactivation in this relation must be the same as deactivation in RLpsprt_gp. If channel selection equals DBYES, then deactivation must be same for all the associated channels in RLpsprt_gp.

**Defines:**
"db/DMlinkno.h",
"db/DMvpidb.h",
"db/DMparty.h"

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# PSHFINFO

## 1. Description

Provides information associated with the logical PHs on a PSU shelf that can support automatic channel (that is, ISCN) allocation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 5 |
| expected tuples | 3 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
PSHFINFO    relid = 2610  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     shelf       DMPSIUSHLF   (uchar: 3)     <--- key
     phalw       DMHEX16      (ushort)
     chcnt_00    DMUCHAR      (uchar)
     chcnt_01    DMUCHAR      (uchar)
     chcnt_02    DMUCHAR      (uchar)
     chcnt_03    DMUCHAR      (uchar)
     chcnt_04    DMUCHAR      (uchar)
     chcnt_05    DMUCHAR      (uchar)
     chcnt_06    DMUCHAR      (uchar)
     chcnt_07    DMUCHAR      (uchar)
     chcnt_08    DMUCHAR      (uchar)
     chcnt_09    DMUCHAR      (uchar)
     chcnt_10    DMUCHAR      (uchar)
     chcnt_11    DMUCHAR      (uchar)
     chcnt_12    DMUCHAR      (uchar)
     chcnt_13    DMUCHAR      (uchar)
     chcnt_14    DMUCHAR      (uchar)
     chcnt_15    DMUCHAR      (uchar)
 (a) pad1_00     DMUNS3       (ushort: 3)
     phapp_00    DMDSLTYPE    (enum: 5)
 (b) pad1_01     DMUNS3       (ushort: 3)
     phapp_01    DMDSLTYPE    (enum: 5)
 (c) pad1_02     DMUNS3       (ushort: 3)
     phapp_02    DMDSLTYPE    (enum: 5)
 (d) pad1_03     DMUNS3       (ushort: 3)
     phapp_03    DMDSLTYPE    (enum: 5)
 (e) pad1_04     DMUNS3       (ushort: 3)
     phapp_04    DMDSLTYPE    (enum: 5)
 (f) pad1_05     DMUNS3       (ushort: 3)
     phapp_05    DMDSLTYPE    (enum: 5)
 (g) pad1_06     DMUNS3       (ushort: 3)
     phapp_06    DMDSLTYPE    (enum: 5)
 (h) pad1_07     DMUNS3       (ushort: 3)
     phapp_07    DMDSLTYPE    (enum: 5)
 (i) pad1_08     DMUNS3       (ushort: 3)
```

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```
    phapp_08    DMDSLTYPE    (enum: 5)
(j) pad1_09     DMUNS3       (ushort: 3)
    phapp_09    DMDSLTYPE    (enum: 5)
(k) pad1_10     DMUNS3       (ushort: 3)
    phapp_10    DMDSLTYPE    (enum: 5)
(l) pad1_11     DMUNS3       (ushort: 3)
    phapp_11    DMDSLTYPE    (enum: 5)
(m) pad1_12     DMUNS3       (ushort: 3)
    phapp_12    DMDSLTYPE    (enum: 5)
(n) pad1_13     DMUNS3       (ushort: 3)
    phapp_13    DMDSLTYPE    (enum: 5)
(o) pad1_14     DMUNS3       (ushort: 3)
    phapp_14    DMDSLTYPE    (enum: 5)
(p) pad1_15     DMUNS3       (ushort: 3)
    phapp_15    DMDSLTYPE    (enum: 5)
    pad2_00     DMUNS4       (ushort: 4)
(q) hwtyp_00    DMPHHW       (enum: 4)
    pad2_01     DMUNS4       (ushort: 4)
(r) hwtyp_01    DMPHHW       (enum: 4)
    pad2_02     DMUNS4       (ushort: 4)
(s) hwtyp_02    DMPHHW       (enum: 4)
    pad2_03     DMUNS4       (ushort: 4)
(t) hwtyp_03    DMPHHW       (enum: 4)
    pad2_04     DMUNS4       (ushort: 4)
(u) hwtyp_04    DMPHHW       (enum: 4)
    pad2_05     DMUNS4       (ushort: 4)
(v) hwtyp_05    DMPHHW       (enum: 4)
    pad2_06     DMUNS4       (ushort: 4)
(w) hwtyp_06    DMPHHW       (enum: 4)
    pad2_07     DMUNS4       (ushort: 4)
(x) hwtyp_07    DMPHHW       (enum: 4)
    pad2_08     DMUNS4       (ushort: 4)
(y) hwtyp_08    DMPHHW       (enum: 4)
    pad2_09     DMUNS4       (ushort: 4)
(z) hwtyp_09    DMPHHW       (enum: 4)
    pad2_10     DMUNS4       (ushort: 4)
(A) hwtyp_10    DMPHHW       (enum: 4)
    pad2_11     DMUNS4       (ushort: 4)
(B) hwtyp_11    DMPHHW       (enum: 4)
    pad2_12     DMUNS4       (ushort: 4)
(C) hwtyp_12    DMPHHW       (enum: 4)
    pad2_13     DMUNS4       (ushort: 4)
(D) hwtyp_13    DMPHHW       (enum: 4)
    pad2_14     DMUNS4       (ushort: 4)
(E) hwtyp_14    DMPHHW       (enum: 4)
    pad2_15     DMUNS4       (ushort: 4)
(F) hwtyp_15    DMPHHW       (enum: 4)
        User, Compacted and Stored Tuple Layout   PSHFINFO
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |     |                         |                               |
 0 |shelf|*************************|             phalw             |
   |---------------+---------------+---------------+---------------|
```

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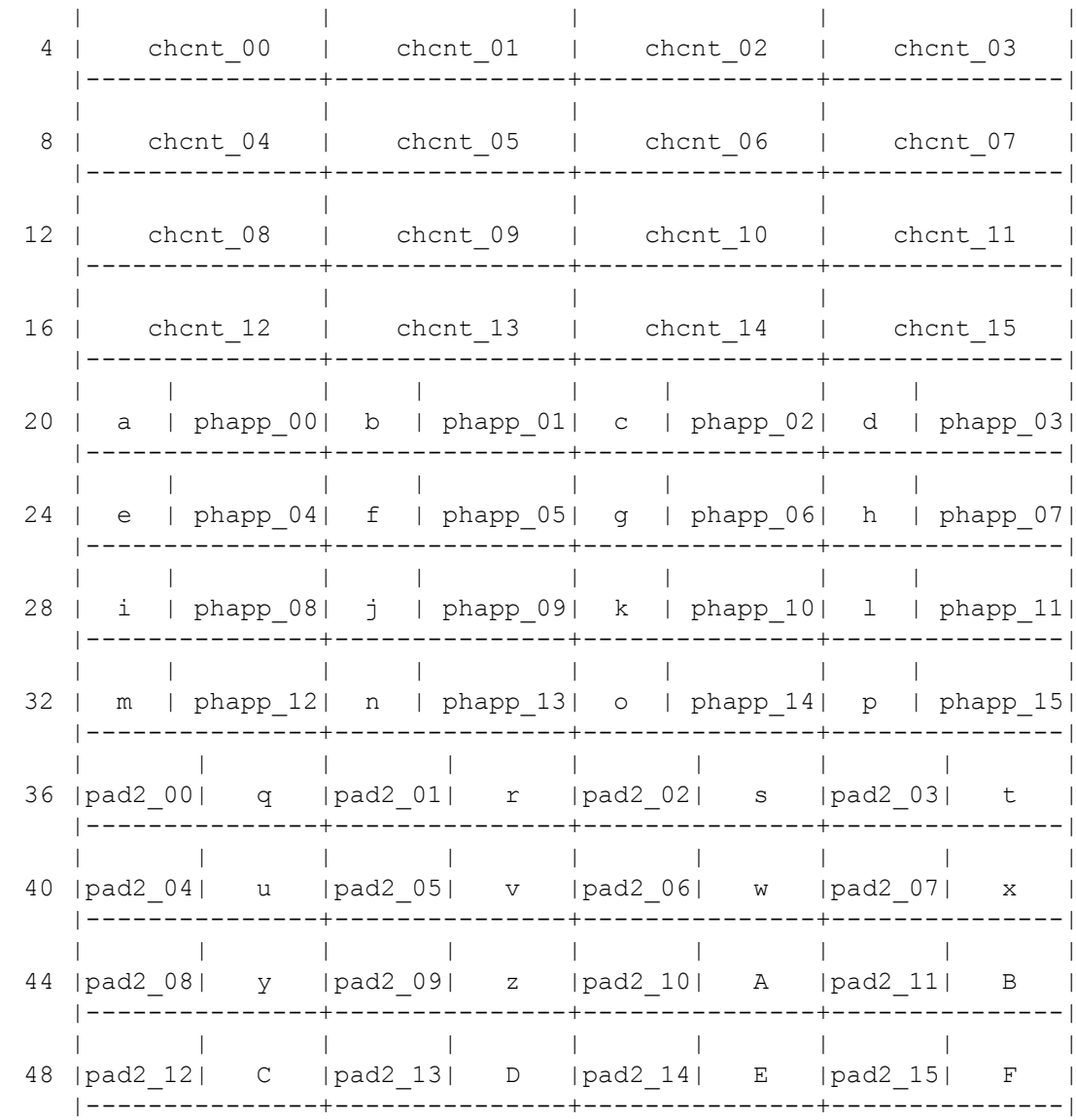
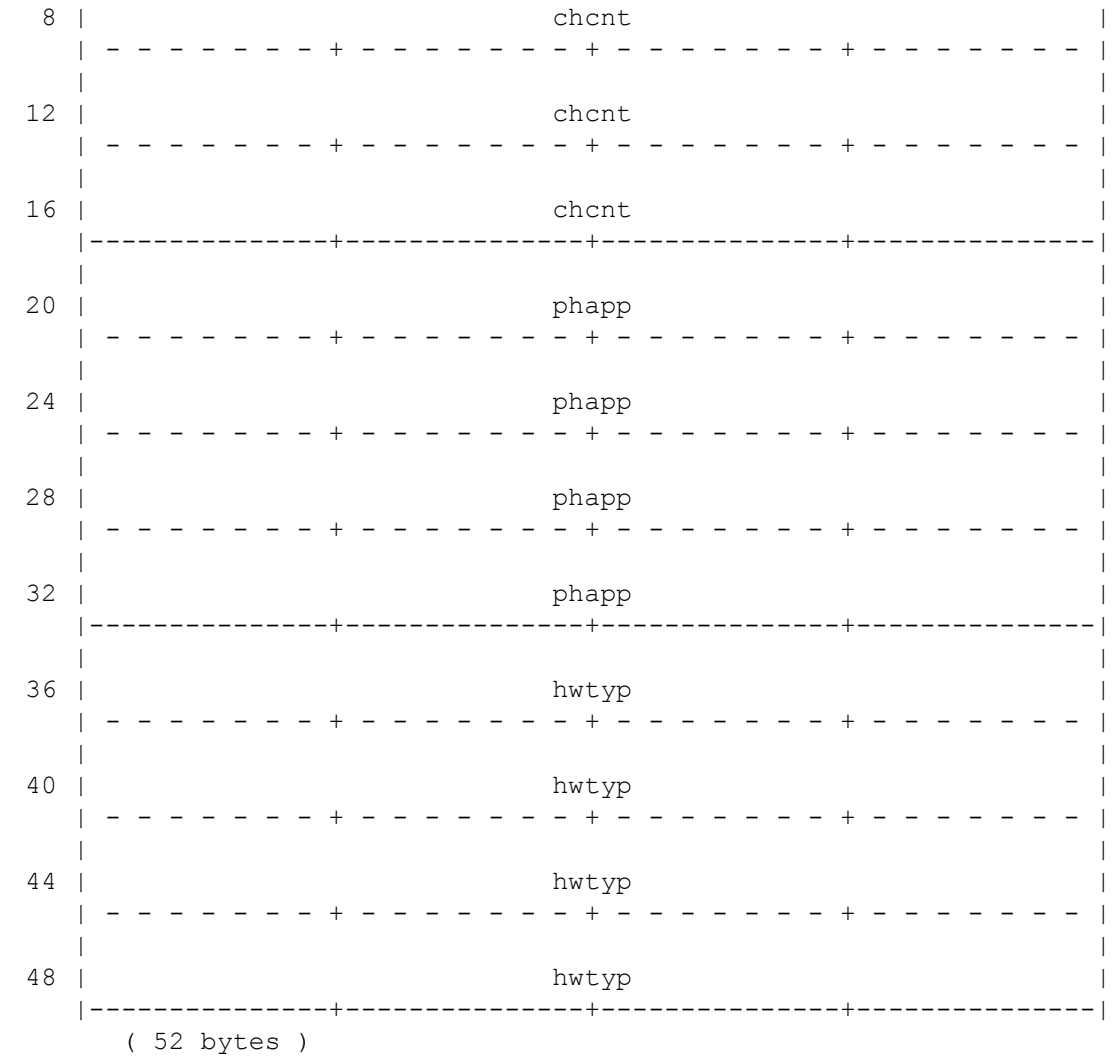



( 52 bytes )

```
domain alPSHFINFO struct  (5 sub-attributes)
        shelf       .33.fake     (uchar: 3)
        phalw       unsigned short (ushort)
        chcnt       .34.fake     (array [ 16 ] of unsigned char )
        phapp       .35.fake     (array [ 16 ] of .0fake )
        hwtyp       .36.fake     (array [ 16 ] of .1fake )
        Structure Layout    alPSHFINFO
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |     |                         |                               |
  0 |shelf|*************************|             phalw             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             chcnt                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
```




## 4. Population Rules for RLpshfinfo

**Relation Description**
PSU Shelf Information

Provides information associated with the logical PHs on a PSU shelf that can support automatic channel (that is, ISCN) allocation.

**Attribute: shelf**

**Fullname:** PSU shelf number

**Attribute Description** The PSU shelf number (key).

**Attribute: phalw**

**Fullname:** PH-allow map

**Attribute Description** 16 bit map used to indicate if channels can be automatically allocated for the shelf's PHs; bit n represents logical PH n, where 1 = allowed, 0 = not allowed.

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**Attribute: chcnt[*]**

**Fullname:** channel count

**Attribute Description** The number of channels that have been allocated or reserved on logical PH XX (XX = 00-15).

**Attribute: phapp[*]**

**Fullname:** PH application type

**Attribute Description** Logical PH XX application type (XX = 00-15).

**Attribute: hwtyp[*]**

**Fullname:** PH hardware type

**Attribute Description** Logical PH XX hardware type (XX = 00-15).

**Attribute: pad1[*]**

**Fullname:** manual padding #1

**Attribute Description** Manual padding used to force "phapp_XX" variable to be aligned in the least significant bits of the byte it resides in (XX = 00-15).

**Attribute: pad2[*]**

**Fullname:** manual padding #2

**Attribute Description** Manual padding used to force "hwtyp_XX" variable to be aligned in the least significant bits of the byte it resides in (XX = 00-15).

**Defines:**
/* None */

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# PSIPTST

## 1. Description

This relation defines the IP trunk group associated with an adjacent packet switch.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| trigger function | TMrciptst |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ks key store | AUTO |

## 3. Field Layout

```
PSIPTST     relid = 1122  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     grpnum      DMGRUPNM     (ushort: 13)
     npsn        DMUCHAR      (uchar)     <--- key
     module      DMMODULE     (ushort: 8)
     size        DMUNS6       (ushort: 6)
 (a) npsn_index  DMUNS4       (ushort: 4)
         User, Compacted and Stored Tuple Layout    PSIPTST
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           |     |               |               |
  0 |           grpnum          |*****|      npsn     |     module    |
    |---------------+---------------+---------------+---------------|
    |            |       |                                           |
  4 |    size    |   a   |*******************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLpsiptst

**Relation Description**
Packet Switching Internal Protocol Trunk Selection Table

RLpsiptst provides the data contained in PH global data arrays which is used to identify the IP trunk PH and PH channel and the Inter-SM Link PH and PH channel to which an individual packet is to be sent. RLpsiptst associates a Next Packet Switch (ie. a packet switch which has a direct Internal Protocol (IP) trunk group connection to the present switch) with (1) the number of trunks in the IP trunk group, (2) the identity of the switching module where the trunks physically exist, and (3) a normalized Next PSN value called the Next PSN Index.

**Attribute: npsn**

**Fullname:** Next Packet Switch Number

**Attribute Description** npsn contains the packet switch number of a packet switch that has a direct IP trunk group connection with the present switch.

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**Attribute: module**

**Fullname:** Module

**Attribute Description** Identifies the switching module where the IP trunks physically exist. All trunks within an IP trunk group must reside on one switching module.

**Attribute: grpnum**

**Fullname:** Group number

**Attribute Description** Identifies the IP trunk group number

**Attribute: size**

**Fullname:** Trunk group size

**Attribute Description** Identifies the number of trunks in the IP trunk group. The maximum number of trunks in an IP trunk group is 32. If there are no trunks assigned, then size has the value 0.

**Attribute: npsn_index**

**Fullname:** Next packet switch number index

**Attribute Description** The value for npsn_index is automatically assigned by Recent Change or ODA. npsn_index permits the RLpsiptst data to be stored in a memory efficient manner in the global PH data arrays. npsn_index normalizes the range of npsn values (1 - 255) to the values between 0 and 15, inclusive. This is possible because a switch can have a maximum of 16 IP trunk groups and thus a maximum of 16 adjacent packet switches (npsn's).

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# PSIUPIDB

## 1. Description

This relation contains the Packet Switching Interconnect Unit Peripheral Interface Data Bus.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 5 |
| expected tuples | 1 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
PSIUPIDB    relid = 619   DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL
     psiu_shelf  DMCIRCUIT    (ushort) <--- key
     pidb_0a     DMCIRCUIT    (ushort)
     pidb_1a     DMCIRCUIT    (ushort)
     pidb_2a     DMCIRCUIT    (ushort)
     pidb_3a     DMCIRCUIT    (ushort)
     pidb_0b     DMCIRCUIT    (ushort)
     pidb_1b     DMCIRCUIT    (ushort)
     pidb_2b     DMCIRCUIT    (ushort)
     pidb_3b     DMCIRCUIT    (ushort)
     dpidb0      DMCIRCUIT    (ushort)
     dpidb1      DMCIRCUIT    (ushort)
     dpidb2      DMCIRCUIT    (ushort)
     dpidb3      DMCIRCUIT    (ushort)
     dpidb4      DMCIRCUIT    (ushort)
     dpidb5      DMCIRCUIT    (ushort)
     dpidb6      DMCIRCUIT    (ushort)
     dpidb7      DMCIRCUIT    (ushort)
     dpidb8      DMCIRCUIT    (ushort)
     dpidb9      DMCIRCUIT    (ushort)
     dpidb10     DMCIRCUIT    (ushort)
     pct0_sg0    DMCIRCUIT    (ushort)
     pct0_sg1    DMCIRCUIT    (ushort)
     config1     DMPHSLFCFG   (struct)
         num_ph      DMUCHAR      (uchar)
         num_grp     DMUCHAR      (uchar)
         num_hw      DMUCHAR      (uchar)
         min_spr     DMUCHAR      (uchar)
     config2     DMPHSLFCFG   (struct)
         num_ph      DMUCHAR      (uchar)
         num_grp     DMUCHAR      (uchar)
         num_hw      DMUCHAR      (uchar)
         min_spr     DMUCHAR      (uchar)
     config3     DMPHSLFCFG   (struct)
         num_ph      DMUCHAR      (uchar)
         num_grp     DMUCHAR      (uchar)
         num_hw      DMUCHAR      (uchar)
         min_spr     DMUCHAR      (uchar)
```

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```
    config4     DMPHSLFCFG   (struct)
        num_ph      DMUCHAR      (uchar)
        num_grp     DMUCHAR      (uchar)
        num_hw      DMUCHAR      (uchar)
        min_spr     DMUCHAR      (uchar)
    configv1    DMPHSLFCFG   (struct)
        num_ph      DMUCHAR      (uchar)
        num_grp     DMUCHAR      (uchar)
        num_hw      DMUCHAR      (uchar)
        min_spr     DMUCHAR      (uchar)
    configv2    DMPHSLFCFG   (struct)
        num_ph      DMUCHAR      (uchar)
        num_grp     DMUCHAR      (uchar)
        num_hw      DMUCHAR      (uchar)
        min_spr     DMUCHAR      (uchar)
    configv3    DMPHSLFCFG   (struct)
        num_ph      DMUCHAR      (uchar)
        num_grp     DMUCHAR      (uchar)
        num_hw      DMUCHAR      (uchar)
        min_spr     DMUCHAR      (uchar)
    configv4    DMPHSLFCFG   (struct)
        num_ph      DMUCHAR      (uchar)
        num_grp     DMUCHAR      (uchar)
        num_hw      DMUCHAR      (uchar)
        min_spr     DMUCHAR      (uchar)
    configa1    DMPHSLFCFG   (struct)
        num_ph      DMUCHAR      (uchar)
        num_grp     DMUCHAR      (uchar)
        num_hw      DMUCHAR      (uchar)
        min_spr     DMUCHAR      (uchar)
    confige1    DMPHSLFCFG   (struct)
        num_ph      DMUCHAR      (uchar)
        num_grp     DMUCHAR      (uchar)
        num_hw      DMUCHAR      (uchar)
        min_spr     DMUCHAR      (uchar)
    confg22     DMPHSLFCFG   (struct)
        num_ph      DMUCHAR      (uchar)
        num_grp     DMUCHAR      (uchar)
        num_hw      DMUCHAR      (uchar)
        min_spr     DMUCHAR      (uchar)
    di_pidb0    DMUCHAR      (uchar)
    di_pidb1    DMUCHAR      (uchar)
    di_pidb2    DMUCHAR      (uchar)
    di_pidb3    DMUCHAR      (uchar)
(a) oper_pidb   DMUNS3       (ushort: 3)
(b) rpa_ts      DMUNS3       (ushort: 3)
    odb_min     DMUNS10      (ushort: 10)
    shts_di0    DMUSHORT     (ushort)
    shts_di1    DMUSHORT     (ushort)
        User, Compacted and Stored Tuple Layout   PSIUPIDB
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
```

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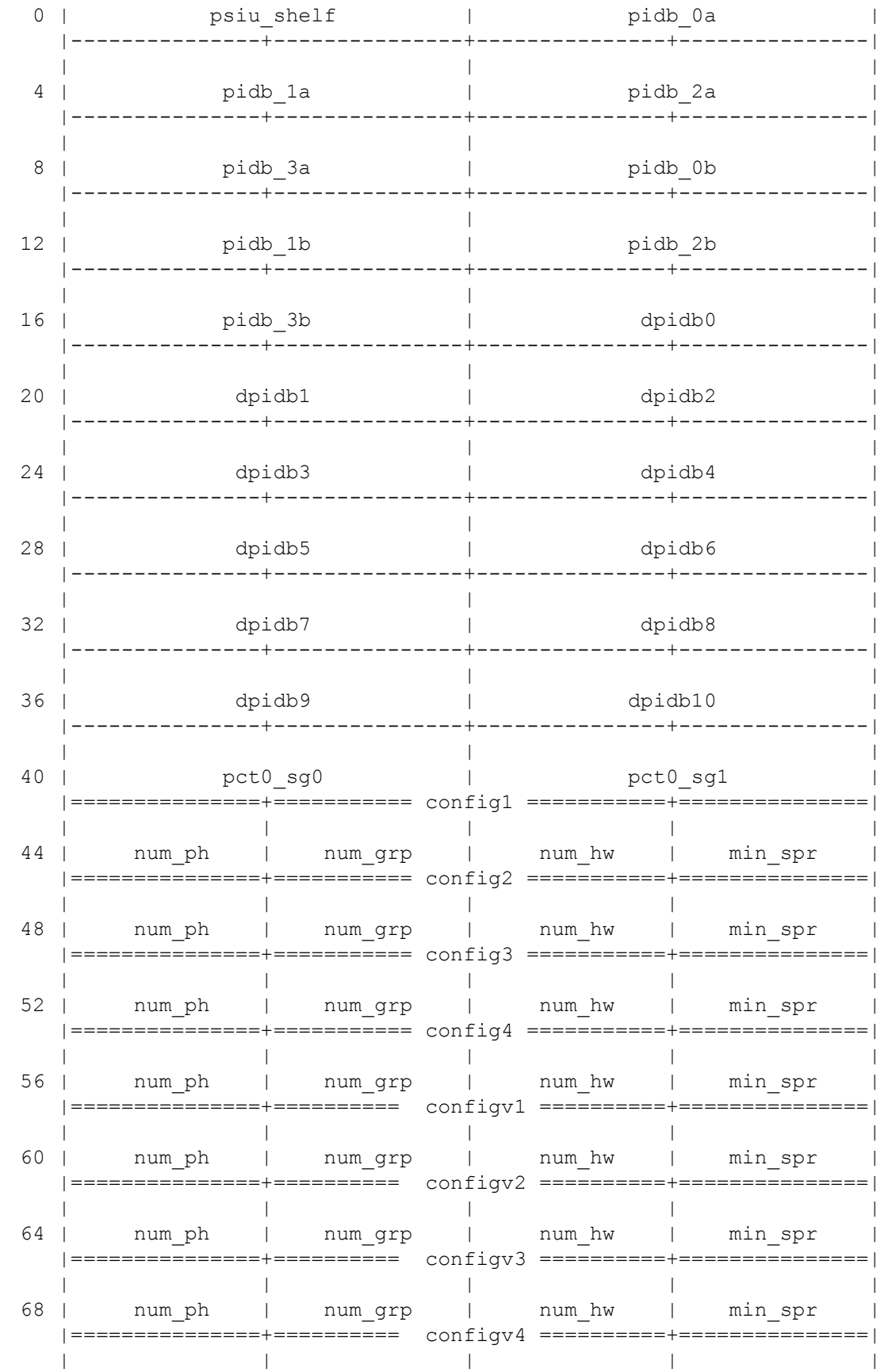


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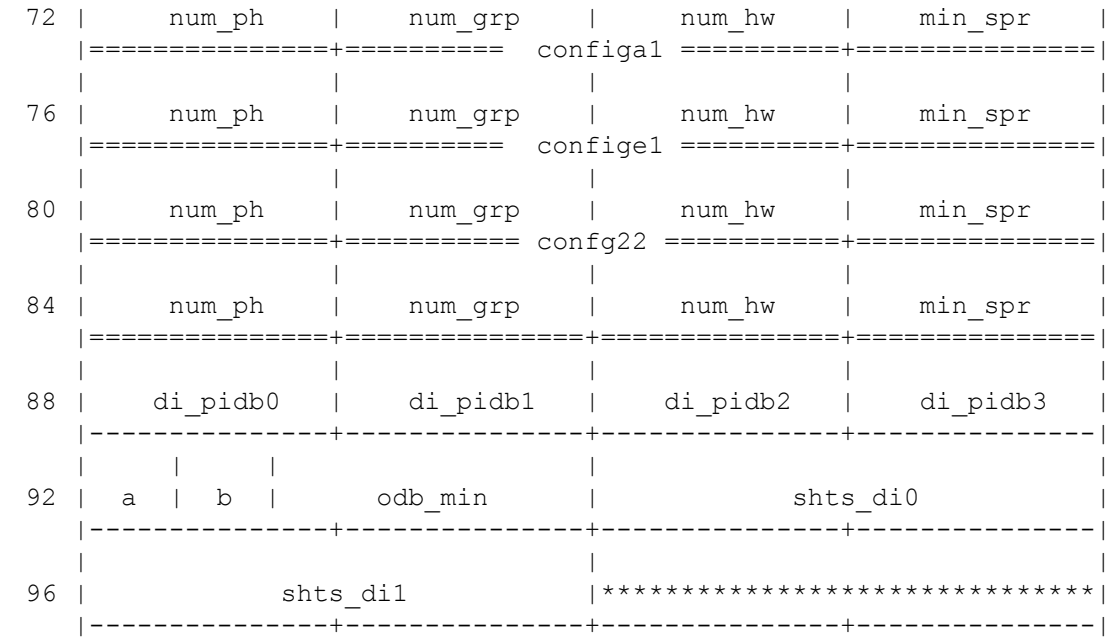


( 100 bytes )

```
domain alPSIUPIDB struct  (10 sub-attributes)
        psiu_shelf  unsigned short (ushort)
        pidb        .3.fake      (array [ 8 ] of unsigned short )
        dpidb       .4.fake      (array [ 11 ] of unsigned short )
        pct0_sg     .5.fake      (array [ 2 ] of unsigned short )
        config      .6.fake      (array [ 11 ] of .1fake )
            num_ph      unsigned char (uchar)
            num_grp     unsigned char (uchar)
            num_hw      unsigned char (uchar)
            min_spr     unsigned char (uchar)
        di_pidb     .7.fake      (array [ 4 ] of unsigned char )
 (a)    oper_pidb   .8.fake      (ushort: 3)
 (b)    rpa_ts      .9.fake      (ushort: 3)
        odb_min     .10.fake     (ushort: 10)
        shts_di     .11.fake     (array [ 2 ] of unsigned short )
                   Structure Layout    alPSIUPIDB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |           psiu_shelf          |              pidb             |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                             pidb                              |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             pidb                              |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                             pidb                              |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 16 |             pidb              |             dpidb             |
```

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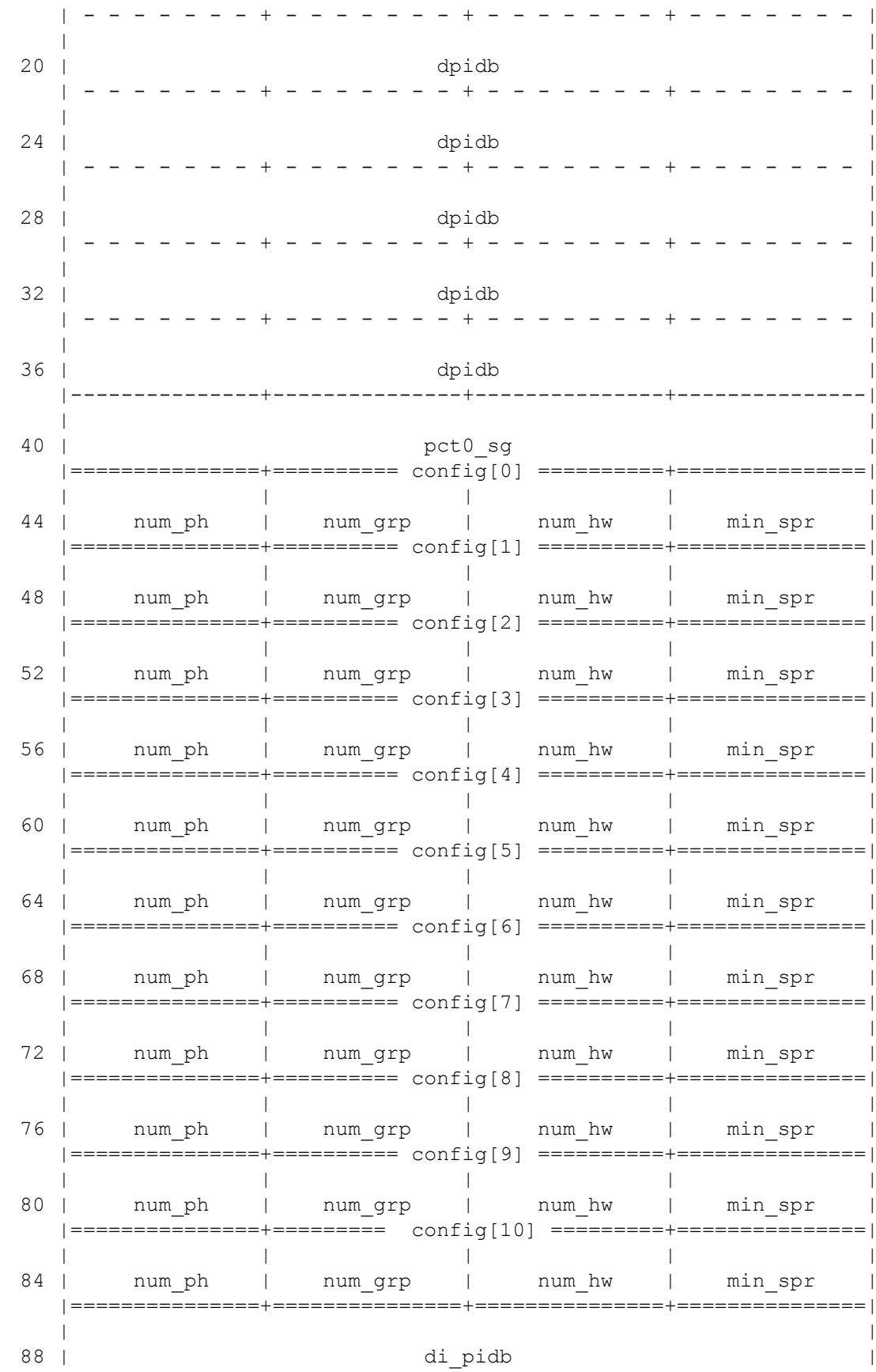


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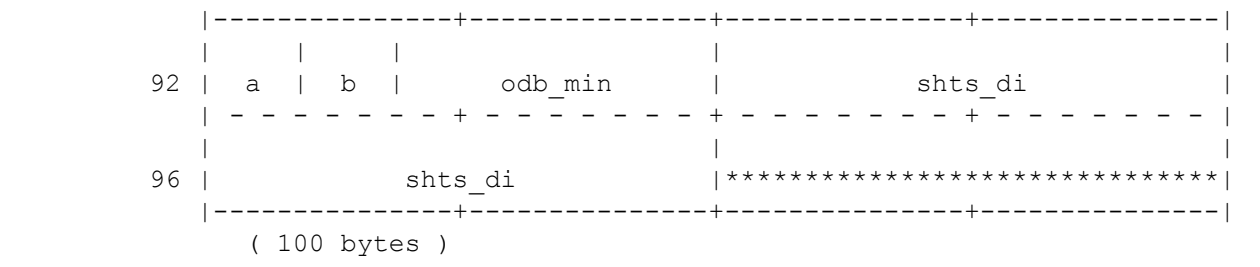


## 4. Population rules for RLpsiupidb

### Relation Description

Packet Switching Interconnect Unit Peripheral Interface Data Bus
This relation contains additional information on the TSI PIDBs and Direct PIDBs that terminate to a given PSU shelf.

**Attribute:**
psiu_shelf
**Fullname:**
Packet Switching Interconnect Unit Shelf
**Attribute Description:**
16 Bit PSIU Shelf name for Shelf Side-0. Must be populated in RLcktdata as PCSHLFPSIU.

**Attribute:**
pidb[*]a
**Fullname:**
Peripheral Interface Data Bus on PSIUCOM side 0
**Attribute Description:**
The circuit name of an even PIDB connecting the TSIU to connection-i (where i is from 0 to 3) of the DF on this shelf associated with PSIUCOM-0.
This PIDB must be populated in RLpidb and in RLcktdata (ckttype is PCPIDBPSIU).

pidb_1a can only be configured if pidb_0a exists.
pidb_2a can only be configured if pidb_1a exists.
pidb_3a can only be configured if pidb_2a exists.
The pidb_1a, pidb_2a, and pidb_3a are populated on a shelf with DF-MP circuit only. They must be defaulted to $GLNULCKT if they are not equipped.
pidb_[0-3]a for a given PSU shelf must all terminate to the same TSIU DI. This is to eliminate data loss during PSUCOM and MCTSI switches. Refer to assignment rules for more information:
Drawing: SD 5D007-01 Sheet: 74 (Packet Switch Unit)

**Attribute:**
pidb[*]b
**Fullname:**

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Peripheral Interface Data Bus on PSIUCOM side 1

**Attribute Description:**

The circuit name of an odd PIDB connecting the TSIU to connection-i (where i is from 0 to 3) of the DF on this shelf associated with PSIUCOM-1. This PIDB must be populated in RLpidb and in RLcktdata (ckttype is PCPIDBPSIU). This PIDB must be paired with the PIDB assigned to 'pidb_[*]a' and must be '1' greater on the same TSIU DI board.

pidb_1b can only be configured if pidb_0b exists.
pidb_2b can only be configured if pidb_1b exists.
pidb_3b can only be configured if pidb_2b exists.
The pidb_1b, pidb_2b, and pidb_3b are populated on a shelf with the cli equals to 0x3 for DF-MP circuit only. They must be set to zero when PCSHLFPSIU cli is 0 or if they are not equipped.

**Attribute:**

dpidb[*]

**Fullname:**

Direct peripheral interface data bus.

**Attribute Description:**

Circuit name of the PIDB connecting position x of the DF to service group 0 of the ISLU(2) or IDCU. or to the COMDAC0 of the AIU. (NOTE: Each direct PIDB position on the DF connects to 2 ISLU(2) or IDCU PIDBs, one on each of the two ISLU(2)/IDCU service groups, or one on each of the two COMDACs of an AIU.) This pidb must be populated in RLcktdata (PCPIDBISLU or PCPIDBIDCU or PCAI_PIDB) as pidbtype PCDPIDB, but not in RLpidb. For more information on the population rules for DPIDBs, see CKTDATA population rules for ISLU(2) and IDCU or AIU Equipped PIDBs - PCPIDBISLU/PCPIDBIDCU/PCAI_PIDB. The eqstat of this shelf in CKTDATA cannot be changed to a state lower than that of any of the DPIDBs assigned to it. For more information and population rules regarding PSIU Shelves relative to DPIDBs, see the CKTDATA population rules for the PSIU Shelf Unit - PCSHLFPSIU.

For additional information and population rules relating to the ISLU(2)/IDCU/AIU connection for this PIDB, see relation 'RLislupidb' and 'RLaiupidb' under section 'PCDPIDB'. This pidb must also be populated in RLislupidb and in RLaiupidb. Its location in RLislupidb/RLaiupidb is derivable from the picb value in RLrc_eqloc.

Where, picb is the key in RLislupidb for ISLU(2) service group 0, or the key in RLaiupidb for AIU COMDAC 0.
dpidb0-5 - associated with DPIDB position n on the DF.
dpidb6-10 - associated with DPIDB position n on the DF.

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(This pidb is currently not populated)
This attribute is not used by X.25 access on a T1 (XAT) port.

**Attribute:**
config[*]
**Fullname:**
Protocol Handler (PH) Packet Switch Unit shelf information.
**Attribute Description:**
This attribute contains sub-attributes which indicate the number of operational PH(*), the number of channel groups of hardware type PH(*), the number of assigned channel groups of hardware type PH(*), and the minimum spare PH(*) on the shelf.

**Attribute:**
config[*].num_ph
**Fullname:**
Number of operational PH(*) on each shelf.
**Attribute Description:**
Each element follows similar population procedures.
This attribute is the number of operational PHs of hardware type x on this shelf.
A PH is operational when the attribute 'eqstat' in RLcktdata is 'SMOPER' (PH ckttype is PCPHPSIU).
This number should be updated whenever the attribute 'eqstat' in RLcktdata is changed from or to 'SMOPER' for any of the x type PHs on this shelf.
See also the rules for the PH in RLcktdata and the rule for 'configx.min_spr' below.

config1.num_ph - associated with PH1s
config2.num_ph - associated with PH2s
config3.num_ph - associated with PH3s
config4.num_ph - associated with PH4s
configv1.num_ph - associated with PHV1s
configv2.num_ph - associated with PHV2s
configv3.num_ph - associated with PHV3s
configv4.num_ph - associated with PHV4s
configa1.num_ph - associated with PHA1s
If no configx.num_ph exist on the shelf the default value should be set to zero.
XAT ports are not supported on PH1.

**Attribute:**
config[*].num_grp
**Fullname:**
Number of operational PH(*) assigned a DSL group on each shelf.
**Attribute Description:**
This is the number of non-empty channel groups for this shelf for PH hardware type SMPH(*).
That is, it should be the number of

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```
groups on that shelf that are assigned
(attribute 'assigned' = 'DBYES' in RLdslgdata):
    config(*).num_grp = 0;
    for (i=0; i<16; i++) {
    if (RLdslgdata.assigned of channel group i
        on this shelf == DBYES
    AND
        RLdslgdata.hw_type of channel group i
        on this shelf == SMPH(*)
    config(*).num_grp++;
    }
This number should be updated in either of the following
cases:
    1) when attribute 'assigned' in RLdslgdata is changed
       from 'DBYES' to 'DBNO' or from 'DBNO' to 'DBYES' for any of the
       groups on this shelf whose attribute 'hw_type' in RLdslgdata
       is 'SMPH(*)', or
    2) when attribute 'hw_type' in RLdslgdata is changed
       from or to 'SMPH(*)' for any of the groups on this shelf whose
       attribute 'assigned' in RLdslgdata is 'DBYES'.
See also the rule for attribute 'assigned' in
RLdslgdata and the rule for 'configx.num_hw' below.
If no SMPH(*) groups exist on the shelf the default value for
config1.num_grp should be set to zero.
```

**Attribute:**

```
config[*].num_hw
```

**Fullname:**

```
number of channel groups reserved a SMPH(*) hardware type.
```

**Attribute Description:**

```
This is the number of channel groups for this shelf of PH hardware
type 'SMPH(*)'.
That is, it should be the number of groups on this shelf that
are assigned a hardware type of 'SMPH(*)'
(attribute 'hw_type' = 'SMPH(*)'
in RLdslgdata):
                config(*).num_hw = 0:
                for (i=0: i<16: i++) {
                        if (RLdslgdata.hw_type of channel group i
                                on this shelf == SMPH(*)
                                config(*).num_hw++:
                        }
When a channel group has been assigned a hardware type
of 'SMPH(*)', the channel group may only use PH(*) hardware.
Config(*).num_hw should be updated whenever the attribute 'hw_type'
in RLdslgdata is changed from or to 'SMPH(*)'.
The following 2 constraints should always be observed:
config(*).num_ph >= config(*).num_hw >= config(*).num_grp
config(*).num_ph - config(*).num_hw >= config(*).min_spr
where    'config(*).num_ph' is the total
number of operational PHs on the shelf
for PH hardware type 'SMPH(*)'
(see 'config(1-4).num_ph' definition above)
```

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'config(*).num_grp' is the total
number of channel groups on
the shelf of PH hardware type 'SMPH(*)'
and with assigned channels
(see 'config(*).num_grp' definition above).
'config(*).min_spr' is the minimum number
of spare PHs on the shelf of PH hardware
type 'SMPH(*)' (see 'config(*).min_spr' definition
below).

See also the rule for attribute 'assigned' in
RLdslgdata, the rule for the attribute 'config(*).num_grp
, and the rule for 'config(*).min_spr' below.
If no channel groups for this shelf are of the SMPH(*)
hardware type, the attribute config(*).num_hw and should
be defaulted to zero.

NOTE: In domestic (USA) generics, PH1s are for internal
testing only. PH1s do not appear in domestic field offices
and are not supported by RC/V. However, PH1s may appear in
domestic test labs.

**Attribute:**

config[*].min_spr

**Fullname:**

Number of minimum spare PH(*) on each shelf.

**Attribute Description:**

This is the required minimum number of spare PHs for this
shelf for PH hardware type SMPH(*).
This subattribute insures that a minimum number of spare
PHs will always be available on the shelf for backup of
active PHs.

The total number of spare PHs of hardware type SMPH(*)
on the shelf is equal to
config(*).num_ph - config(*).num_hw
where 'config(*).num_ph ' is the total
number of operational PHs on the shelf
for PH hardware type 'SMPH(*)'
(see 'config(*).num_ph' definition above)
'config(*).num_hw' is the total
number of channel groups on
the shelf of PH hardware type 'SMPH(*)'
(see 'config(*).num_hw' definition above).
The total number of spare PHs MUST NOT be less
than the required minimum number of spares.
(Any number of spare PHs over the minimum number
is valid.)

Thus, the following must always be true:
config(*).num_ph - config(*).num_hw >= config(*).min_spr
unless 'config(*).num_hw' is equal to zero, in

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which case this rule no longer need be true.

**Attribute:**
shts_di[*]
**Fullname:**
PSU shelf to TSIU nailed up timeslot connections count per di.
**Attribute Description:**
For an SM:
---
This attribute reflects the number of PSU PIDB time slots that have nailed up connections through the TSIU on this shelf per di.

Following checks should be used to increment shts_di0:
When one of the "shlf" attributes is incremented in RLtscount for this shelf then shts_di0 should be incremented when either of the following conditions is true:
1- All "di_pidb" values are 0 for this shelf.
2- At least one "di_pidb" value is 0 and there is "available" TSIU time slots reserved on DI0. To have "available" TSIU requires the following three criteria to be met:
- The count of TSIU time slots being used on DI0 (Gldi0tscnt) is less than TSIU time slots reserved on DI0 (sum of bits set in Gldi0_*ptss) and the shts_di0 value has not exceeded oper_pidb * 32 on DI0.
- No actual TSIU timeslot is used on a shelf more than the number of PIDBs on DI0. For example, if 3 PIDBs exist on DI0 and the bit for timeslot 14 is set in 5 bit maps, the timeslot can only be used 3 times by that shelf.
- Every application on every shelf can be assigned to a bit in one of the Gldi0_*ptss bit maps following the above rule.

Following checks should be used to decrement shts_di0:
This value should be decremented when a "shlf" value is decremented in RLtscount when either of the following conditions is true:

1- All "di_pidb" values are 0 for this shelf.
2- At least one "di_pidb" value is 0, the count of TSIU time slots used on di0 (Gldi0tscnt) is greater than zero, and the count of TSIU time slots used on di1 (Gldi1tscnt) is zero.

Following checks should be used to increment shts_di1:
When one of the "shlf" attributes is incremented in RLtscount for this shelf then shts_di1 should be incremented when either of the following conditions is true:

1- All "di_pidb" values are 1 for this shelf.
2- At least one "di_pidb" value is 1, condition 2 for shts_di0 could not be met and there is "available" TSIU time slots reserved on DI1. To have enough TSIU requires the following three criteria to be met:

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- The count of TSIU time slots being used on DI1 (Gldi1tscnt) is less than TSIU time slots reserved on DI1 (sum of bits set in Gldi1_*ptss) and the shts_di1 value has not exceeded oper_pidb * 32 on DI1.
- No actual TSIU timeslot is used on a shelf more than the number of PIDBs on DI1. For example, if 3 PIDBs exist on DI1 and the bit for timeslot 14 is set in 5 bit maps, the timeslot can only be used 3 times by that shelf.
- Every application on every shelf can be assigned to a bit in one of the Gldi1_*ptss bit maps following the above rule.

Following checks should be used to decrement shts_di1:
This value should be decremented when a "shlf" value is decremented in RLtscount when either of the following conditions is true:
1- All "di_pidb" values are 1 for this shelf.
2- At least one "di_pidb" value is 1 and the count of TSIU time slots used on di1 (Gldi1tscnt) is greater than 0.

For an SM-2000:
---
This attribute reflects the total number of PSU PIDB time slots that have nailed up connections through the TSIU on this shelf.

**Attribute:**
di_pidb[*]
**Fullname:**
PSU shelf DI to PIDB connection.
**Attribute Description:**
This attribute indicates what DI the PIDB on this shelf is connected to for connection-i (where i is from 0 to 3) of the DF.

If a PIDB is not being used/not connected the DI value should default to 6.

**Attribute:**
oper_pidb
**Fullname:**
Operational PIDBs on the shelf.
**Attribute Description:**
This attribute holds the counter for the operational PIDBs per shelf.

**Attribute:**
rpa_ts
**Fullname:**

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Remote Protocol Access reserved Timeslots

**Attribute Description:**

This attribute is used to keep track of the timeslots reserved for the Remote Protocol Access feature BRI monitor session ports. There is a direct one to one correlation with RLtscount.rpa_0pidb thru rpa_4pidb attributes. Timeslots are reserved on a PSU shelf basis. The PSU PIDB timeslots used by RPA are reserved from the available PIDB timeslots on a given PH shelf and are not part of the PSU nail-up timeslots. For SM-2000 one time slot is reserved for diagnostics.

For SM: the sum of
RLpsiupidb.shts_di0 + RLpsiupidb.shts_di1 +
RLpsiupidb.rpa_ts + RLpsiupidb.odb_min for each
PSU shelf must be <= oper_pidb * 32.

For SM-2000: the sum of
RLpsiupidb.shts_di0 + RLpsiupidb.shts_di1 +
RLpsiupidb.rpa_ts + RLpsiupidb.odb_min for each
PSU shelf must be <= oper_pidb * 31.
Or the sum of rpa_ts and odb_min for each shelf
must be <= number of PCT link * 767 if the shelf
is connected via PCT link.

**Attribute:**

odb_min

**Fullname:**

Minimum time slots for on demand packet-B (ODB)

**Attribute Description:**

Minimum time slots reserved for on demand packet-B (ODB) on a per shelf basis.

**Attribute:**

pct0_sg[*]

**Fullname:**

PCT link 0 circuit for service group 0 and 1.

**Attribute Description:**

This is the circuit name for the first PCT link connected to a PSU shelf. Current design supports only one PCT link per shelf. The PCT link is a duplex link connects to both service group 0 and service group 1

**Defines:**

"db/DMcircuit.h"

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# PSL2THRS

## 1. Description

Level 2 IP, X.75 and X.75' trunk group thresholds.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 25 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| trigger function | TMpsl2thrs |
| insert trigger | DBNO |
| update trigger | DBYES |
| delete trigger | DBNO |
| end of transaction trigger | DBYES |
| ks key store | AUTO |

## 3. Field Layout

```
PSL2THRS    relid = 1119  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     grpnum       DMGRUPNM     (ushort: 11)  <--- key, not stored
     l2err        DMUNS7       (ushort: 7)
 (a) sabm_num     DMUNS4       (ushort: 4)
 (b) badfcs       DMUNS3       (ushort: 3)
         User and Compacted Tuple Layout   PSL2THRS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
  0 |         grpnum        |***************************************|
    |---------------+---------------+---------------+---------------|
    |               |       |     |                                 |
  4 |    l2err      |   a   |  b  |*********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     l2err        DMUNS7       (ushort: 7)
 (a) sabm_num     DMUNS4       (ushort: 4)
 (b) badfcs       DMUNS3       (ushort: 3)
           Stored Tuple Layout     PSL2THRS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |       |     |                                 |
  0 |    l2err      |   a   |  b  |*********************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLpsl2thrs

**Relation Description** Level 2 IP, X.75', X.75, and PP trunk group thresholds

This relation contains threshold values used by level 2 error handling for X.75', X.75, IP and packet pipes (PP) trunk groups.

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**Attribute: grpnum**

**Fullname:** Trunk Group Number

**Attribute Description** Group number of the X.75', X.75, IP or PP trunk group

**Attribute: badfcs**

**Fullname:** Bad Frame Check Sequence

**Attribute Description** This attribute gives the threshold value for the ratio of frames received with a bad frame check sequence (FCS) to the total number of frames received. badfcs= 'i' signifies threshold is 1 out of 'i' frames received with a bad FCS.

**Attribute: sabm_num**

**Fullname:** Number of SABMs received in 30 seconds

**Attribute Description** This attribute gives the threshold value for the maximum number of set asynchronous balanced mode (SABM) frames received in a 30 second period.

**Attribute: l2err**

**Fullname:** Level 2 protocol errors

**Attribute Description** This attribute gives the threshold value for the maximum number of level 2 protocol violations detected in a 30 second period

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# PSL3TRKG

## 1. Description

Level 3 X.75 and X.75' packet switching trunk group thresholds and parameters.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 25 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |
| trigger function | RTrcl3trkg |
| insert trigger | DBNO |
| update trigger | DBYES |
| delete trigger | DBNO |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
PSL3TRKG    relid = 1790  DBSTATIC   DBACC_CIND  DBPRAM    FG      RCMAP
     remote_dnic  DMPSDNIC     (ushort)
     grpnum       DMGRUPNM     (ushort: 11)     <--- key
 (a) seg_size     DMPSTKSEGS   (enum: 3)
 (b) num_plan     DMPSNUMPLN   (enum: 2)
     iiclist_id   DMPSIIC_CN   (ushort: 11)
 (c) ilc_scrn     DMPSILCRTG   (enum: 2)
 (d) nuiin_unv    DMPSNUITYPE  (enum: 2)
 (e) cugscrn_alw  DMBOOL       (enum: 1)
 (f) nuiout_unv   DMPSNUITYPE  (enum: 2)
 (g) nuiin_ver    DMPSNUITYPE  (enum: 2)
 (h) nuiout_ver   DMPSNUITYPE  (enum: 2)
         User, Compacted and Stored Tuple Layout   PSL3TRKG
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                       |     |   |
  0 |          remote_dnic          |        grpnum         |  a  | b |
    |---------------+---------------+---------------+---------------|
    |                       |   |   | |   |   |   |                   |
  4 |      iiclist_id       | c | d |e| f | g | h |*******************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLpsl3trkg

**Relation Description**
This Relation defines the OSI Level 3 parameters applicable for packet switching trunk groups of type X.75 or X.75'.

This relation does not apply for IP or other PRI trunk group types. Not all attributes in this relation apply to both types of packet trunks. Please refer to the general section tuple semantics and each attributes usage section to

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determine what type(s) of packet trunks the attribute is applicable for. The relation is set up for RC READ-FIRST-READ-NEXT access on the iiclist_id attribute.

The following tuple semantics detail the allowed values for both X.75 and X.75' trunk groups.

```
TUPLE SEMANTICS for X.75 Trunk Groups
-------------------------------------
grpnum       X.75 Trunk Group Number (1 thru AVTRKGRPS())
num_plan     X.75 Mode of Operation (PSX121 or PSE164)
ilc_scrn     {ILCON,ILCOFFTR,ILCOFFDN}
nuiin_unv    {NUICLEAR,NUIPASS} (default = NUICLEAR)
nuiout_unv   {NUICLEAR,NUIPASS} (default = NUICLEAR)
nuiin_vfy    {NUICLEAR,NUIPASS,NUIDELETE} (default = NUIPASS)
nuiout_vfy   {NUICLEAR,NUIPASS,NUIDELETE} (default = NUIPASS)
cugscrn_alw  {DBYES,DBNO}
iiclist_id   0-1600
remote_dnic  1-9999
seg_size     {TSEGSZ16,TSEGSZ64,TSEGSZ128,TSEGSZ256} (default
             = TSEGSZ64)

TUPLE SEMANTICS for X.75' Trunk Groups
--------------------------------------
grpnum       X.75' Trunk Group Number (1 thru AVTRKGRPS())
num_plan     X.75' Mode of Operation (PSX121 or PSE164)
ilc_scrn     ILCNONE (ilc_scrn only for X.75 trunks)
nuiin_unv    NUINONE (nui_in_unv only for X.75 trunks)
nuiout_unv   NUINONE (nui_out_unv only for X.75 trunks)
nuiin_vfy    NUINONE (nui_in_vfy only for X.75 trunks)
nuiout_vfy   NUINONE (nui_out_vfy only for X.75 trunks)
cugscrn_alw  DBNO (cugscrn_alw only for X.75 trunks)
iiclist_id   0    (iiclist_id only for X.75 trunks)
remote_dnic  0    (remote_dnic only for X.75 trunks)
seg_size     TNOSEGSZ (seg_size only for X.75 trunks)
```

**Attribute: grpnum**

**Fullname:** X.75 or X.75' Trunk Group Number

**Attribute Description** Enter the X.75 or X.75' Trunk Group number (1-AVTRKGRPS()) as defined in RLpsx75trk, RLrctgrprk and RLrt_trkg.

**Attribute: num_plan**

**Fullname:** X.75 or X.75' packet switching mode of operation

**Attribute Description** The num_plan attribute is used to define the numbering plan that is 'native' to the trunk group. The only valid mode of interworking between numbering plans is escape code. The pseudo DNIC mode of interworking is no longer supported as of the 5E8 software release. See the retrofit section of this relation for details on the elimination of the pseudo DNIC mode of interworking.

The attribute is valid for both X.75 and X.75' trunk group types. The attribute is necessary to properly interpret addresses and escape codes for calls arriving on the trunk.

The valid numbering plans are E.164 (PSE164) and X.121 (PSX121).

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The enumeration PSXNONE is not valid in the relation. This enumeration is for RC and ODA use only and will appear as 'NONE' on the view. The enumeration is for use with non-X.75/non-X.75' trunk groups which share the trunk group view (this field is a required field on the view so an entry for every trunk group is necessary).

**Attribute: ilc_scrn**

**Fullname:** Intra Lata Competition Screening at X.75 Interface

**Attribute Description** The intra lata competition (ILC) screening attribute is a routing parameter for X.75 trunks. If the parameter is set to ILCON the packet trunk call arriving at the X.75 interface should be screened for intra lata competition. The attribute is not used for X.75' trunk groups and should be defaulted to ILCNONE for them. The ILCNONE enumeration is not valid for X.75 trunk groups.

If this trunk group parameter is set to ILCON, and if the RPOA utility is provisioned in the RLpsx75trk.prov_flag attribute, the switch will discard the ICPI utility if present and check the value of the Glilc global office parameter. Depending on the value of Glilc, packet routing will either route the call based on RPOA without DA, route the call based on RPOA, route the call to the intra-lata carrier (IC) indicated by the RPOA or clear the call with two possible error messages.

If this trunk group parameter is set to ILCOFFTR, and if the RPOA utility is provisioned in the RLpsx75trk.prov_flag attribute, the switch will discard the ICPI utility if present and route the call based on RPOA.

If this trunk group parameter is set to ILCOFFDN, the RPOA utility is not present in the call request packet and the called address indicates an IC is not needed to complete the call then the call will be routed based on the directory number (DN) in the call request packet (called address). If the RPOA utility is not present, the called address indicates an IC is needed to complete the call and the ICPI utility is present then the ICPI will be replaced with RPOA (with the DNIC/INIC mapped from ICPI to RPOA) and the call routed to the preselected IC; however, if the ICPI utility is not present the call will be cleared. This enumeration will treat the call as the packet switching software did in pre-5e8 software releases.

**Attribute: nuiin_unv**

**Fullname:** X.75 Trunk Interface NUI incoming unverified (NUIHANDI(0))

**Attribute Description** The attribute is used to define the type of network user identification (NUI) treatment for incoming unverified calls on the X.75 trunk interface. The attribute does not apply to X.75' trunks and should be set to NUINONE for them. The default value for X.75 trunks is NUICLEAR.

NUI provides supplementary network user identification for charging of virtual call usage. The NUI utility and the transit network identification (TNI) Utility must be provisioned for all trunk members of this trunk group in the RLpsx75trk.prov_flag attribute for this attribute to be used.

When this attribute is set to 'PASS' the switch should transmit the call request packet (CRP) as it is. When this attribute is set to 'CLEAR' the switch should clear the CRP containing the NUI utility. The enumeration 'DELETE' does not apply to this attribute. The Bellcore TA/TR name for this attribute is NUIHANDI(0).

**Attribute: nuiout_unv**

**Fullname:** X.75 Trunk Interface NUI outgoing unverified (NUIHANDO(0))

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**Attribute Description** The attribute is used to define the type of network user identification (NUI) treatment for outgoing unverified calls on the X.75 trunk interface. The attribute does not apply to X.75' trunks and should be set to NUINONE for them. The default value for X.75 trunks is NUICLEAR.

NUI provides supplementary network user identification for charging of virtual call usage. The NUI utility and the transit network identification (TNI) Utility must be provisioned for all trunk members of this trunk group in the RLpsx75trk.prov_flag attribute for this attribute to be used.

When this attribute is set to 'PASS' the switch should transmit the call request packet (CRP) as it is. When this attribute is set to 'CLEAR' the switch should clear the CRP containing the NUI utility. The enumeration 'DELETE' does not apply to this attribute. The Bellcore TA/TR name for this attribute is NUIHANDO(0).

**Attribute: nuiin_ver**

**Fullname:** X.75 Trunk Interface NUI incoming verified (NUIHANDI(1))

**Attribute Description** The attribute is used to define the type of network user identification (NUI) treatment for incoming verified calls on the X.75 trunk interface. The attribute does not apply to X.75' trunks and should be set to NUINONE for them. The default value for X.75 trunks is NUIPASS.

NUI provides supplementary network user identification for charging of virtual call usage. The NUI utility and the transit network identification (TNI) Utility must be provisioned for all trunk members of this trunk group in the RLpsx75trk.prov_flag attribute for this attribute to be used.

When this attribute is set to 'PASS' the switch should transmit the call request packet (CRP) as it is. When this attribute is set to 'CLEAR' the switch should clear the CRP containing the NUI utility. When this attribute is set to 'DELETE' the switch should remove the NUI utility from the CRP before delivering the call set up packet. The Bellcore TA/TR name for this attribute is NUIHANDI(1).

**Attribute: nuiout_ver**

**Fullname:** X.75 Trunk Interface NUI outgoing verified (NUIHANDO(1))

**Attribute Description** The attribute is used to define the type of network user identification (NUI) treatment for outgoing verified calls on the X.75 trunk interface. The attribute does not apply to X.75' trunks and should be set to NUINONE for them. The default value for X.75 trunks is NUIPASS.

NUI provides supplementary network user identification for charging of virtual call usage. The NUI utility and the transit network identification (TNI) Utility must be provisioned for all trunk members of this trunk group in the RLpsx75trk.prov_flag attribute for this attribute to be used.

When this attribute is set to 'PASS' the switch should transmit the call request packet (CRP) as it is. When this attribute is set to 'CLEAR' the switch should clear the CRP containing the NUI utility. When this attribute is set to 'DELETE' the switch should remove the NUI utility from the CRP before delivering the call set up packet. The Bellcore TA/TR name for this attribute is NUIHANDO(1).

**Attribute: cugscrn_alw**

**Fullname:** X.75 Trunk Interface Closed User Group Screening

**Attribute Description** The attribute is used to enable (DBYES) or disable (DBNO) closed user group screening on X.75 trunk groups. The attribute is not used by X.75' trunk groups and should

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be set to DBNO for them. If this attribute is DBYES, there must be a valid CUG List ID entered in the iiclist_id attribute.

If this attribute is DBYES, then every trunk member of the trunk group must also subscribe to either the CUG indication utility or the CUG/OA Utility via the RLpsx75trk.prov_flag attribute. Whenever a new trunk member is added to a trunk group with CUG screening enabled, the new member must have one of the two previous utilities enabled. If the attribute is DBNO then no screening is performed on call request packets at the X.75 trunk interface.

This attribute is also populated in RLpsx75trk for packet routing efficiency. The value in RLpsx75trk for every member of a given trunk group must be exactly the same as the value for the group in this relation.

**Attribute: iiclist_id**

**Fullname:** X.75 Trunk Interface Closed User Group Screening List ID Number

**Attribute Description** The attribute is used to assign a closed user group (CUG) list ID number to the trunk group. The CUG List ID must be a valid ID number defined in RLpscug_iic and may be shared with other trunk groups. The attribute is not used by X.75' trunk groups and should be set to 0 for them. The valid range for X.75 trunk groups is 0-1600.

If this attribute is 0 then no screening is allowed (cugscrn_alw attribute must be set to DBNO (zero indicates no list assigned)). If the attribute value is 1-1600 then a list is assigned but the cugscrn_alw attribute may be either DBYES or DBNO (allows for an on-off toggle).

This attribute is also populated in RLpsx75trk for packet routing efficiency. The value in RLpsx75trk for every member of a given trunk group must be exactly the same value entered for the group in this relation.

**Attribute: remote_dnic**

**Fullname:** X.75 Trunk Remote DNIC

**Attribute Description** This attribute contains the remote DNIC assigned to the remote end of the X.75 trunk group. The remote_dnic attribute is not used for X.75' trunk groups. The range of values to be entered by operating company personnel for X.75 trunk groups is from 0001 - 9999. Hex digits A through F are not allowed. The default value 0000 should be populated for X.75' trunk groups.

**Attribute: seg_size**

**Fullname:** X.75 Trunk Group Internetwork Segment Size

**Attribute Description** This attribute is used for recording the X.75 trunk group segment size in the AMA record for internetwork virtual circuits. The valid segment sizes are 16, 64, 128 or 256 octets represented by the enumerations TSEGSZ16, TSEGSZ64, TSEGSZ128 and TSEGSZ258. This attribute is applicable for X.75 trunk groups only and is defaulted to TSEGSZ64 for them. The attribute is not used for X.75' trunk groups and should be defaulted to TNOSEGSZ for them. This attribute is similar to the SM global parameter Glsegsz which is used for intranetwork X.75 call segment size provisioning and X.25 intranetwork/internetwork call segment size provisioning. Refer to the retrofit section for more information pertaining to retrofit.

**Defines:**
"db/DMportindx.h"
"db/DMpsiic_cn.h"

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# PSLDN_GP

## 1. Description

Linear entry point DN to MLHG group and member.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 1024 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| ks key store | DBNO |

## 3. Field Layout

```
PSLDN_GP    relid = 1789  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     dn          DMLOCDN      (struct)  <--- key, not stored, compacted
         noc         DMNOC        (ushort: 8)
         digits      DMLOCDIG     (array [ 4 ] of char )
     member      DMMEM        (ushort: 12)
     grpnum      DMGRUPNM     (ushort: 11)
            User Tuple Layout      PSLDN_GP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+=============  dn =============+===============|
    |                |                |                               |
  0 |****************|      noc       |             digits            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                 |                               |
  4 |              digits             |*******************************|
    |================+================+================+===============|
    |                          |      |                        |      |
  8 |          member          |******|         grpnum         |******|
    |----------------+---------------+----------------+---------------|
       ( 12 bytes )
     dn          DMKLOCDN     (struct)  <--- key, not stored, compacted
         noc         DMNOC        (ushort: 8)
         index       DMUNS14      (ushort: 14)
     member      DMMEM        (ushort: 12)
     grpnum      DMGRUPNM     (ushort: 11)
          Compacted Tuple Layout   PSLDN_GP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+=============  dn =============+===============|
    |                |                |                                |  |
  0 |****************|      noc       |            index               |***|
    |================+================+================+===============|
    |                                                                   |
  4 |*******************************************************************|
    |----------------+----------------+----------------+---------------|
```

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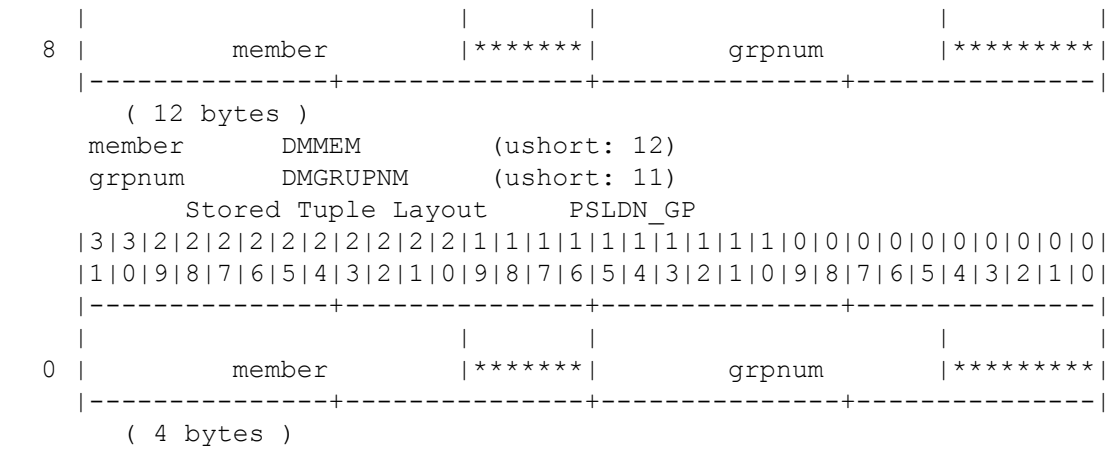


## 4. Population Rules for RLpsldn_gp

**Relation Description**
This relation is used to determine the starting packet MLHG member for a linear hunt.

When the called address is a linear entry point DN, this relation is read to determine the start hunt member. For each linear entry point DN that is assigned to a unique packet MLHG and member a tuple will exist in this relation. A linear entry point DN, when called, is used to determine the member of the packet MLHG to start the hunt with. Hunting starts at a determined member and continues until an idle member is found or until the end of the member list is reached.

For example:
DN = 979-2000 is assigned to grpnum = 30 member = 10.
If 979-2000 is dialed, then linear hunting will start with packet MLHG 30, member 10.

**Attribute: dn**

**Fullname:** Packet Switching Directory Number

**Attribute Description** For packet switching multi-line hunt groups with linear hunting this is a linear entry point DN. The attribute consists of the normalized office code (NOC) and four directory number digits.

Packet routing will read this relation with the linear DN to find the group and member number to start hunting with.

There must be a corresponding tuple in RLpsgp_ldn and the hunt type in RLrt_mhg must be PSUCD or PSLGUCD.

The NOC for the group linear entry point DN in RLpsmhgdnr must not equal 0.

For member 1, the linear DN in this relation must match the group's linear entry point DN in RLpsmhgdnr.

**Attribute: dn.noc**

**Fullname:** Normalized office code

**Attribute Description** This is the normalized office code for the linear entry point DN.

**Attribute: dn.digits**

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**Fullname:** Directory Digits

**Attribute Description** These are the local directory digits for the linear entry point DN.

**Attribute: grpnum**

**Fullname:** Group Number

**Attribute Description** Group number of a packet switching multi-line hunt group (MLHG) that has a linear hunting algorithm associated with it.

**Attribute: member**

**Fullname:** Member Number

**Attribute Description** Member number of packet switching multi-line hunt group.

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# PSLINKPT

## 1. Description

Gateway link IDs for X.75/X.75' trunk PVCs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 255 |
| expected tuples in relation | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
PSLINKPT    relid = 1118  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     linkid      DMUCHAR      (uchar)  <--- key
     module      DMMODULE     (ushort: 8)
     ph_number   DMPHNBR      (uchar: 7)
     ph_cn       DMPHCN       (uchar: 7)
         User, Compacted and Stored Tuple Layout   PSLINKPT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |             | |             | |
  0 |     linkid    |     module    |  ph_number  |*|    ph_cn    |*|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLpslinkpt

**Relation Description**
Gateway link IDs for X.75/X.75' Trunk PVCs

This relation maps the gateway link ID used by an IP PVC into the SM, PH and channel number of the destination X.75/X.75' trunk.

**Attribute: linkid**

**Fullname:** Gateway Link ID

**Attribute Description** Gateway Link ID used by Routing for PVCs on a given X.75/X.75' trunk

**Attribute: module**

**Fullname:** Switching Module

**Attribute Description** Switching Module (SM) number of the given X.75/X.75' trunk

**Attribute: ph_number**

**Fullname:** PH number

**Attribute Description** PH number of the given X.75/X.75' trunk

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**Attribute: ph_cn**

**Fullname:** PH channel number

**Attribute Description** PH channel number of the given X.75/X.75' trunk If the port is an X.75 or X.75' trunk and the PH is of type PH2 then ph_cn must be 0 If the port is an X.75 or X.75' trunk and the PH is of type PH3 or PH4 then ph_cn may be (0,4,8...20) in even multiples of four as long as all members on a given PH3 or PH4 are of the same trunk level 2 profile and all of the ports are equipped on the same SM. It is recommended that a maximum of 4 X.75' or X.75 trunk members be assigned to a given PH3 or PH4. HARDWARE CONVERSION NOTE: If the PH3 or PH4 is to be converted to a PH2 only 1 member may be assigned to the PH3 or PH4 and the 'ph_cn' attribute must equal 0 otherwise the conversion will be blocked!

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# PSMAPPVC

## 1. Description

This relation defines a PVC bit map associated with a given D-channel user, B channel, X.75, or X.75' trunk. RLpsx25ln (for DSL) or RLpsx75trk (for X.75/X.75' trunks) must be populated before RLpsmappvc.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8192 |
| expected tuples in relation | 8 |
| density | 27 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
PSMAPPVC    relid = 812   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     ph_number   DMPHNBR      (uchar: 7)     <--- key
     ph_cn       DMPHCN       (uchar: 7)     <--- key
     party       DMPARTY      (ushort: 4)     <--- key
     mappvc1     DMPSPVCMAP   (long)
     mappvc2     DMPSPVCMAP   (long)
     mappvc3     DMPSPVCMAP   (long)
     mappvc4     DMPSPVCMAP   (long)
         User, Compacted and Stored Tuple Layout   PSMAPPVC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               | |             | |       |                     |
  0 |  ph_number    |*|    ph_cn    |*| party |*********************|
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  4 |                            mappvc1                              |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  8 |                            mappvc2                              |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 12 |                            mappvc3                              |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 16 |                            mappvc4                              |
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
domain alPSMAPPVC struct  (4 sub-attributes)
         ph_number   .3.fake      (uchar: 7)
         ph_cn       .4.fake      (uchar: 7)
         party       .5.fake      (ushort: 4)
         mappvc      .6.fake      (array [ 4 ] of long )
         Structure Layout      alPSMAPPVC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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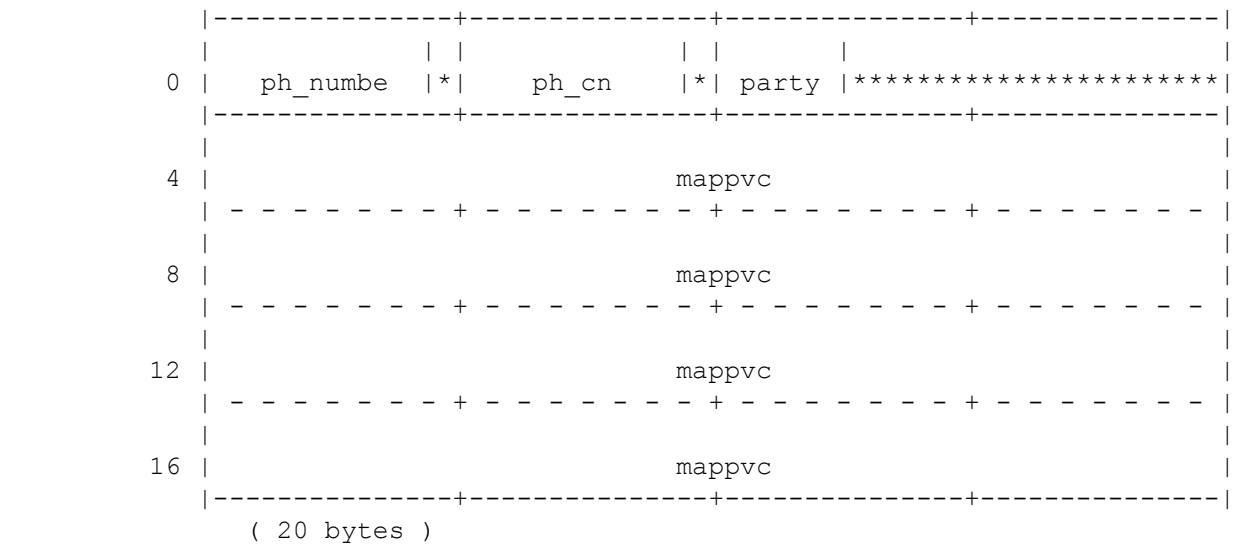


## 4. Population Rules for RLpsmappvc

**Relation Description**
Permanent virtual circuit (PVC) bit map.

This relation defines a PVC bit map associated with a given D/B channel of a DSL, X.75 or X.75' trunk or a X.25 access on a T1 (XAT) port. On-demand B-channel (ODB) DSL ports and IP Trunk group members may not have PVC's assigned to them and thus should not have tuples in this relation. As of 5E9, X.25 Packet Switching will no longer be supported by the PH2 Access Image. Instead X.25 Packet Switching will only be supported by PH3's.

**Attribute: ph_number**

**Fullname:** Protocol Handler number.

**Attribute Description** Ph_number is also called DSL group number. For efficient memory utilization, ph_number should be assigned sequentially. The Protocol Handler number that an X.25 access on a T1 (XAT) port is assigned is determined by the PH number entered on the (T1 PACKET SWITCHING CHANNEL ASSIGNMENT) view. As of 5E9, X.25 Packet Switching will no longer be supported by the PH2 Access Image. Instead X.25 Packet Switching will only be supported by PH3 or PH4.

**Attribute: ph_cn**

**Fullname:** Protocol Handler channel number.

**Attribute Description** Ph_cn is also called DSL group member. For efficient memory utilization, ph_cn should be assigned sequentially. The Protocol Handler channel number that an X.25 access on a T1 (XAT) port is assigned is determined by the PH channel number entered on the (T1 packet switching channel assignment) view. If the port is an X.75 or X.75' trunk and the PH is of type PH2 then ph_cn must be 0. If the port is an X.75 or X.75' trunk and the PH is of type PH3 or PH4 then ph_cn may be (0,4,8...20) in even multiples of four as long as all members on a given PH3 or PH4 are of the same trunk level 2 profile and all of the ports are equipped on the same SM. It is recommended that a maximum of 4 X.75' or X.75 trunk members be assigned to a given PH3 or PH4.

HARDWARE CONVERSION NOTE:
If the PH3 or PH4 is to be converted to a PH2 only 1 member may be assigned to the PH3 or PH4

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and the 'ph_cn' attribute must equal 0 otherwise the conversion will be blocked!

**Attribute: party**

**Fullname:** DSL D channel multipoint.

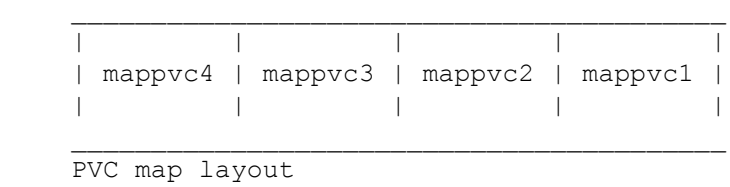
**Attribute Description** Specific packet user within an ISDN DSL D-channel. There can be up to 8 packet user Service Order Profiles (SOPs) defined on an ISDN DSL D-channel. This attribute is not used by X.25 access on a T1 (XAT) port.

**Attribute: mappvc[*]**

**Fullname:** PVC bit map.

**Attribute Description** The four attributes, mappvc1 thru mappvc4 are the 16 byte PVC bit map. Each four byte attribute is made up of 32 bits, one bit used to represent each logical channel number (LCN), 0-31, that are designated for PVC usage. A bit set to 1 indicates that channel is assigned to a PVC, zero means not assigned. For each bit on the map that is set to 1, there must be a tuple in RLpspvcinf. local_lcn in RLpspvcinf indicates assigned PVC. For example, the content of mappvc described as 000.....1010 indicates that logical channel number 1 and 3 have PVC's assigned. The highest bit assigned must be less than or equal to the value of pvc_h_lcn in RLpsx25ln/RLpsx75trk.

```
mappvc1   First 4 bytes of PVC map.
mappvc2   Second 4 bytes of the PVC map.
mappvc3   Third 4 bytes of the PVC map.
mappvc4   Last 4 bytes of the PVC map.
127     96 95     64 63     32 31      0  <-- logical channel no.
```




PVC map layout

**Defines:**
"db/DMparty.h"

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# PSMHGDNR

## 1. Description

Range of directory numbers of multi-line hunt groups (MHG). Packet switching routing uses it for calling address verification.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected number of tuples | 200 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 2 |
| ks key store | DBNO |

## 3. Field Layout

```
PSMHGDNR    relid = 831   DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     grpnum      DMGRUPNM     (ushort: 11)  <--- key, not stored
     from_dn     DMLOCDN      (struct)  <--- compacted
         noc         DMNOC        (ushort: 8)
         digits      DMLOCDIG     (array [ 4 ] of char )
     to_dn       DMLOCDN      (struct)  <--- compacted
         noc         DMNOC        (ushort: 8)
         digits      DMLOCDIG     (array [ 4 ] of char )
     ln_dn       DMLOCDN      (struct)  <--- compacted
         noc         DMNOC        (ushort: 8)
         digits      DMLOCDIG     (array [ 4 ] of char )
          User Tuple Layout      PSMHGDNR
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
  0 |         grpnum        |***************************************|
    |===============+=========== from_dn ===========+===============|
    |               |               |                               |
  4 |***************|      noc      |             digits            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  8 |              digits           |*******************************|
    |===============+============ to_dn ============+===============|
    |               |               |                               |
 12 |***************|      noc      |             digits            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 16 |              digits           |*******************************|
    |===============+============ ln_dn ============+===============|
    |               |               |                               |
 20 |***************|      noc      |             digits            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
```

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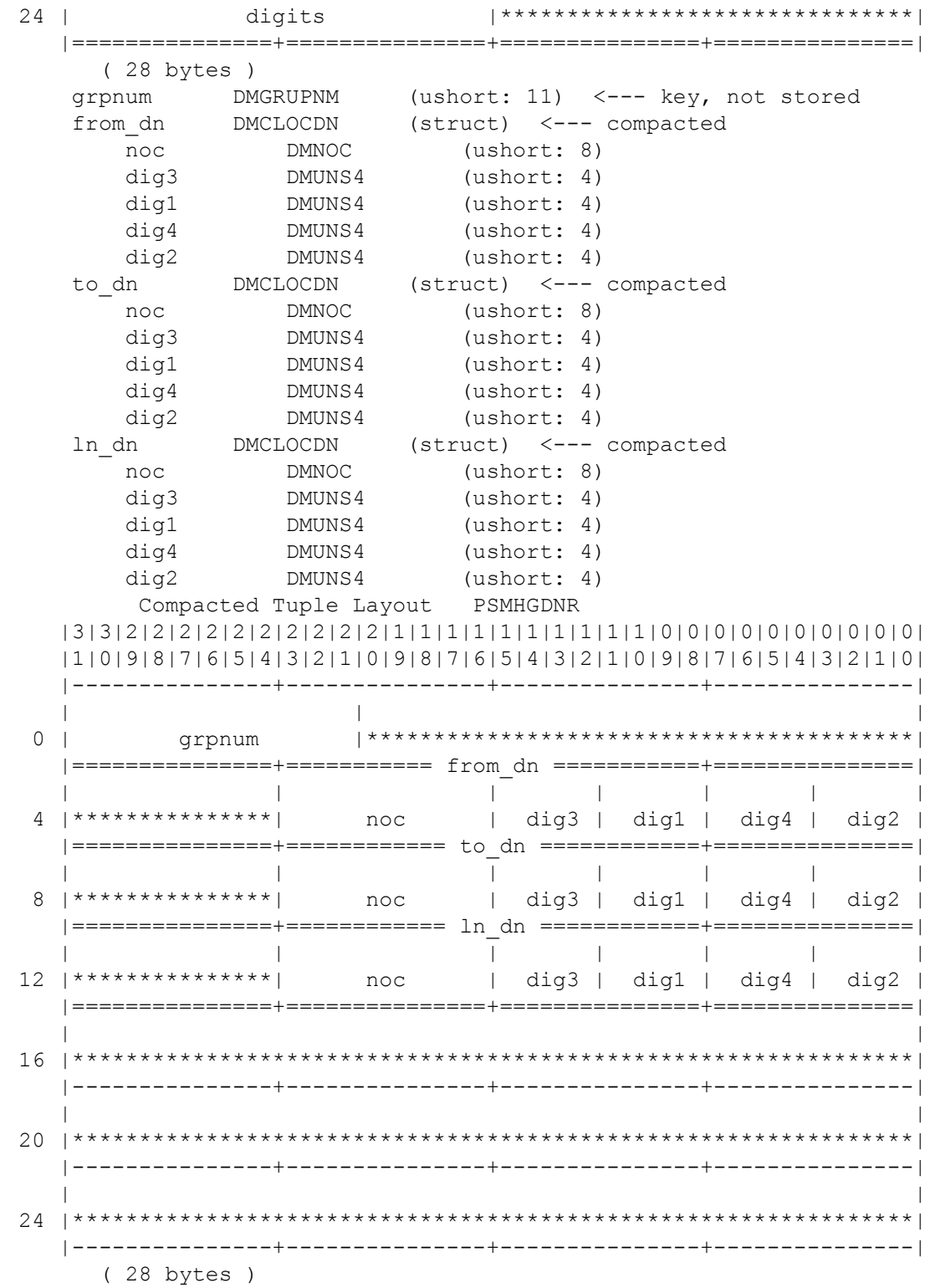
digits
( 28 bytes )
grpnum DMGRUPNM (ushort: 11) <--- key, not stored
from_dn DMCLOCDN (struct) <--- compacted
noc DMNOC (ushort: 8)
dig3 DMUNS4 (ushort: 4)
dig1 DMUNS4 (ushort: 4)
dig4 DMUNS4 (ushort: 4)
dig2 DMUNS4 (ushort: 4)
to_dn DMCLOCDN (struct) <--- compacted
noc DMNOC (ushort: 8)
dig3 DMUNS4 (ushort: 4)
dig1 DMUNS4 (ushort: 4)
dig4 DMUNS4 (ushort: 4)
dig2 DMUNS4 (ushort: 4)
ln_dn DMCLOCDN (struct) <--- compacted
noc DMNOC (ushort: 8)
dig3 DMUNS4 (ushort: 4)
dig1 DMUNS4 (ushort: 4)
dig4 DMUNS4 (ushort: 4)
dig2 DMUNS4 (ushort: 4)
Compacted Tuple Layout PSMHGDNR
3 3 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
1 0 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0
grpnum
from_dn
noc
dig3
dig1
dig4
dig2
to_dn
noc
dig3
dig1
dig4
dig2
ln_dn
noc
dig3
dig1
dig4
dig2
( 28 bytes )
from_dn DMCLOCDN (struct) <--- compacted
noc DMNOC (ushort: 8)
dig3 DMUNS4 (ushort: 4)
dig1 DMUNS4 (ushort: 4)
dig4 DMUNS4 (ushort: 4)
dig2 DMUNS4 (ushort: 4)

```
    to_dn       DMCLOCDN     (struct)  <--- compacted
        noc         DMNOC        (ushort: 8)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
    ln_dn       DMCLOCDN     (struct)  <--- compacted
        noc         DMNOC        (ushort: 8)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
          Stored Tuple Layout     PSMHGDNR
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+=========== from_dn ===========+===============|
   |               |               |       |       |       |       |
 0 |***************|      noc      |  dig3 |  dig1 |  dig4 |  dig2 |
   |===============+============ to_dn ============+===============|
   |               |               |       |       |       |       |
 4 |***************|      noc      |  dig3 |  dig1 |  dig4 |  dig2 |
   |===============+============ ln_dn ============+===============|
   |               |               |       |       |       |       |
 8 |***************|      noc      |  dig3 |  dig1 |  dig4 |  dig2 |
   |===============+===============+===============+===============|
      ( 12 bytes )
```

## 4. Population Rules for RLpsmhgdnr

**Relation Description**
This relation is used for calling address (that is, directory number) verification.

When the calling address is specified in a call setup packet for origination, packet switching routing must verify its validity. First, the calling address is checked against rlPSX25LN.dd_number of the DSL. If it matches, the verification is completed: otherwise, if the calling address is not one of the group directory numbers of a packet switching MLHG group, then it is checked against the group's listed linear entry point DN. If no match is found in this relation, then RLpsgp_ldn will be read to retrieve the member's linear entry point DN.

This relation contains the range of PSUCD directory numbers that are used for a packet multi-line hunt group. The linear entry point DN assigned to member 1 of the packet MLHG is also considered the linear listed DN for the group and will be stored in this relation.

**Attribute: grpnum**

**Fullname:** Group number

**Attribute Description** Group number of modem pool group or normal ps multiline hunt group. The group number of the MHG group is determined from rlPSPRT_GP.grpnum of the tuple in the PSPRT_GP relation such that rlPSX25LN.ph_number = rlPSPRT_GP.ph_number, rlPSX25LN.ph_cn = rlPSPRT_GP.ph_cn. Thereafter, a tuple in PSMHGDNR relation such that rlPSMHGDNR.grpnum = rlPSPRT_GP.grpnum is retrieved. The calling address is valid if and only if rlPSMHGDNR.from_dn <= calling address <= rlPSMHGDNR.to_dn

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```
If rlRT_MHG.htype = RTH_PSUCD or RTH_PSLGUCD, there must be a tuple
in the PSMHGDNR relation such that rlPSMHGDNR.grpnum = rlRT_MHG.grpnum.
```

**Attribute: from_dn**

**Fullname:** from directory number

**Attribute Description** Starting group directory number of the group. It is a structure with 2 members, NOC and digits.

**Attribute: from_dn.noc**

**Fullname:** Normalized office code

**Attribute Description** Normalized office code. No default value.

**Attribute: from_dn.digits**

**Fullname:** digits

**Attribute Description** Four digit local number, excluding * and #. No default value.

**Attribute: to_dn**

**Fullname:** to directory number

**Attribute Description** Ending group directory number of the group. It is a structure with 2 members, NOC and digits.

**Attribute: to_dn.noc**

**Fullname:** Normalized office code

**Attribute Description** Normalized office code. No default value.

**Attribute: to_dn.digits**

**Fullname:** digits

**Attribute Description** Four digit local number, excluding * and #. No default value.

**Attribute: ln_dn**

**Fullname:** Linear listed DN

**Attribute Description** The linear group DN is the linear entry point DN that is assigned to member 1 of the packet MLHG.

A linear entry point DN is assigned to a packet MLHG and member number. When a linear entry point DN is called it is used to map into the member for which hunting for an idle member should start.

The ln_dn attribute must be assigned to member 1 which is located in RLpsldn_gp on the packet routing SM determined by RLrtdnmod.

**Attribute: ln_dn.noc**

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**Fullname:** Normalized office code

**Attribute Description** This is the normalized office code for the packet MLHG's linear entry point DN.

**Attribute: ln_dn.digits**

**Fullname:** Directory digits

**Attribute Description** This is the local directory number minus the office code for the packet MLHG's linear entry point DN.

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# PSPRT_GP

## 1. Description

Packet switching port to group and member.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 12752 |
| expected tuples in relation | 7 |
| density | 26 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | GPRTG |
| relation type | DBSTATIC |

## 3. Field Layout

```
PSPRT_GP    relid = 813   DBSTATIC   DBACC_HASH  DBPRAM    LPFPFG  GPRTG
     qkey        DMUNS16      (ushort)
     member      DMMEM        (ushort: 12)
     party       DMPARTY      (ushort: 4)     <--- key
     grpnum      DMGRUPNM     (ushort: 11)
 (a) chan_sel    DMBOOL       (enum: 1)
 (b) deactive    DMBOOL       (enum: 1)
     module      DMMODULE     (ushort: 8)     <--- key
     htgmod      DMMODULE     (ushort: 8)
     ph_number   DMPHNBR      (uchar: 7)     <--- key
 (c) gblgrp      DMBOOL       (enum: 1)
     ph_cn       DMPHCN       (uchar: 7)     <--- key
 (d) grptype     DMPTYPE      (enum: 1)
     tsi_link    DMLINKNO     (ushort: 6)
     vpidb       DMVPIDB      (ushort: 6)
         User, Compacted and Stored Tuple Layout   PSPRT_GP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                         |       |
  0 |               qkey              |          member         | party |
    |---------------+---------------+---------------+---------------|
    |                       | | |     |                 |               |
  4 |         grpnum        |a|b|*****|     module      |     htgmod    |
    |---------------+---------------+---------------+---------------|
    |             | |             | |           |           |       |
  8 |  ph_number  |c|    ph_cn    |d|  tsi_link |   vpidb   |*******|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLpsprt_gp

**Relation Description**
Packet Switching Port to Group number.

This relation contains information used to map a packet switching port name to a packet switching multi-line hunt group (MLHG) or trunk group (TG) and member number. The provisionable deactive/active status, for hunted calls

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only, is also stored in this relation. If rlRT_TRKG.htype = RTH_PSUCD, there must be tuples with number equal to rl_RT_TRKG.act_size in the PSPRT_GP relation such that rlPSPRT_GP.grpnum = rlRT_TRKG.grpnum. All the groups in the rt_mpg or rtdnmpg relation must be in this relation. Servclass in fc_porttyp relation:

If ptype is TM_LINE, service class of the DSL must be FC_ISDN or TM_XDB.
If ptype is TM_TRK, service class of the trunk group must be PSPKT_TRK or PSX75P_TK in the fc_porttyp relation. The trunk group is of the 2-way T1 facility type.

Line configuration for packet switching:
As of 5E9, all Packet Line MLHG Members must reside on PH3's since they will no longer be supported on PH2 Access Image.

As of 5E10, Packet Line MLHG Members can reside either on PH3's or PH4's.

```
TUPLE SEMANTICS for a Packet Line MLHG Member
---------------------------------------------
grpnum                  Group Number
ptype                   TM_LINE
member                  Member Number
module                  Switching Module Number
ph_number               Protocol Handler Number
ph_cn                   Protocol Handler Channel Number
party                   Party
qkey                    Arbitrary Key (0)
chan_sel                Channel Selection
deactive                Deactivation
```

Trunk group configuration for packet switching:
The following rules apply for internal protocol (IP) trunks:

(1) Service class of the IP trunk group must be PSPKT_TRK in fc_porttyp relation.

(2) There will be a maximum of 16 IP trunk groups for each *5ESS*®-2000 switch.

(3) Each IP trunk group will have a maximum of 32 trunk members.

(4) All IP trunks in a trunk group will terminate on the same SM.

(5) Only one trunk member will terminate on a PH2.

(6) From 1 to 6 trunk members may terminate on a PH3 or PH4 as long as all of the trunk members are IP trunk members.

(7) The trunk group is 2_way.

The following rules apply for X.75' trunks:

(1) There can be 255 X.75' trunk groups (per office) with a maximum of 24 trunk members per group.

(2) There is a limit of 25 X.75' trunk groups on a given SM.

(3) The trunk group is a 2-way T1 facility.

(4) Only one trunk member will terminate on a PH2.

(5) From 1 to 6 trunk members may terminate on a PH3 or PH4 as long as all of the trunk members are X.75' trunk members and all trunk member ports terminate in the same SM. It is recommended that only 4 trunk

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members are put on a given PH3 or PH4.

(6) The service class of each member in fc_porttyp is PSX75P_TK.

(7) X.75' trunk members can reside on different SMs.

(8) All the trunk members in a X.75' trunk group can be split among non-remoted SMs and can not be split between RSMs, ORMs or TRMs, that is, if any RSM, ORM or TRM contains X.75' trunk members it must contain the whole group.

The following rules apply for X.75 trunks:

(1) There can be 255 X.75 trunk groups (per office) with a maximum of 24 trunk members each.

(2) There is a limit of 25 X.75 trunk groups on a given SM.

(3) The trunk group is a 2-way T1 facility.

(4) Only one trunk member will terminate on a PH2.

(5) From 1 to 6 trunk members may terminate on a PH3 or PH4 as long as all of the trunk members are X.75 trunk members and all trunk member ports terminate in the same SM. It is recommended that only 4 trunk members are put on a given PH3 or PH4.

(6) The service class of each member in fc_porttyp is PSX75_TK.

(7) All the trunk members in a X.75 trunk group can be split among non-remoted SMs and can not be split between RSMs, ORMs or TRMs, that is, if any RSM, ORM or TRM contains X.75 trunk members it must contain the whole group.

The total combined number of Packet Trunks (IP, X.75, X.75') on any given Loaded SM is 25. This may consist of any number of types following the previous limits for the three types.

```
TUPLE SEMANTICS for a Packet Trunk Member
-----------------------------------------
grpnum                  Group Number
ptype                   TM_TRK
member                  Member Number
module                  Switching Module Number
ph_number               Protocol Handler Number
ph_cn                   Protocol Handler Channel Number
party                   Party
qkey                    Arbitrary Key
chan_sel                Channel Selection (DBNO)
deactive                Deactivation (DBNO)
```

**Attribute: module**

**Fullname:** Switching Module number.

**Attribute Description** Switching Module where the port is located.

**Attribute: ph_number**

**Fullname:** Protocol Handler number.

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**Attribute Description** The Protocol Handler number that a X.25 access on a T1 (XAT) port is assigned is determined by the PH number entered on the (T1 packet switching channel assignment) view. As of 5E9, all Packet Line MLHG Members must reside on PH3's since they will no longer be supported on PH2 Access Image. Starting in 5E10, Packet Line MLHG Members are also supported on PH4's.

**Attribute: ph_cn**

**Fullname:** Protocol Handler Channel number.

**Attribute Description** The Protocol Handler channel number that a X.25 access on a T1 (XAT) port is assigned is determined by the PH channel number entered on the (T1 PACKET SWITCHING CHANNEL ASSIGNMENT) view. If the port is an IP, X.75 or X.75' trunk and the PH is of type PH2 then the ph_cn must be 0 If the port is an IP, X.75 or X.75' trunk and the PH is of type PH3 or PH4 then ph_cn may be (0,4,8...20) in even multiples of four as long as all members on a given PH3 or PH4 are of the same trunk level 2 profile and all of the ports are equipped on the same SM. It is recommended that a maximum of 4 X.75' or X.75 trunk members be assigned to a given PH3 or PH4.
HARDWARE CONVERSION NOTE:
If the PH3 or PH4 is to be converted to a PH2 only 1 member may be assigned to the PH3 or PH4 and the 'ph_cn' attribute must equal 0 otherwise the conversion will be blocked!

**Attribute: party**

**Fullname:** Party.

**Attribute Description** The specific packet user within an ISDN DSL D-channel. There can be up to 8 packet user service order profiles (SOP)s defined. The following symbolic use of numeric party value is defined:

```
FCP_INDI        0       individual lines
FCP_TRUNK       0       trunks
FCP_BCHAN       0       B-channel packet-switching
FCP_DFLTSRV     0       Default Service
FCP_PKTTRK      0       Packet trunks
FCTP_RNG        1       ring side of two party line
FCTP_TIP        2       tip side of two party line
```

Permanent packet B-channels (PPB) are populated with FCP_BCHAN. Packet trunks are populated with FCP_PKTRK. This attribute is not used by X.25 access on a T1 (XAT) port, populate with FCP_INDI for XAT ports.

**Attribute: tsi_link**

**Fullname:** Time slot interchanger (TSI) link associated with the port

**Attribute Description** This attribute is the TSI link associated with the port. It is used to support fast port inhibit. This attribute is only used for trunks assigned to the following trunk units: SMDNU_S SMDLTU2

**Attribute: vpidb**

**Fullname:** Virtual Peripheral Interface Data Bus

**Attribute Description** This attribute identifies the channel on a peripheral control and timing (PCT) link associated with the port. This attribute identifies the PIDB on a DX. The PIDB is associated with a digital line trunk unit-2 (DLTU2) facility. This attribute is only used for facilities assigned to

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the following trunk units: SMDNU_S SMDLTU2

**Attribute: grpnum**

**Fullname:** Group Number.

**Attribute Description** Group number of a packet trunk group, modem pool group or packet MLHG. For an X.75 trunk group, all trunk group member entries in RLfc_porttyp must have servclass=PSX75_TK. There can be 255 X.75 trunk groups per office and there may be 25 X.75 trunk groups per SM with a maximum of 24 trunk members per trunk group; however, all the trunk members in a X.75 trunk group can only be split among non-remoted SMs and cannot be split between RSMs, ORMs or TRMs, that is, if any RSM, ORM or TRM contains X.75 trunk members it must contain the whole group. For an X.75' trunk group, all trunk group member entries in RLfc_porttyp must have servclass=PSX75P_TK. There can be 255 X.75' trunk groups per office and there may be 25 X.75' trunk groups per SM with a maximum of 24 trunk members per trunk group; however, all the trunk members in a X.75' trunk group can only be split among non-remoted SMs and cannot be split between RSMs, ORMs or TRMs, that is, if any RSM, ORM or TRM contains X.75' trunk members it must contain the whole group. For an IP trunk group, all trunk group member entries in RLfc_porttyp must have servclass=PSPKT_TRK. Packet trunk groups may have up to 25 tuples consisting of up to 16 IP trunk groups, up to 25 X.75' trunk group or up to 25 X.75 trunk groups. This is enforced by both RC/V and ODA.

**Attribute: grptype**

**Fullname:** Group Type.

**Attribute Description** Indicates whether this group member supports trunk or line types of service. For X.25 access on a T1 (XAT) ports, populate this attribute with TM_LINE.

**Attribute: member**

**Fullname:** Member number.

**Attribute Description** Group member number.

**Attribute: qkey**

**Fullname:** Arbitrary Key.

**Attribute Description** Zero or an arbitrary number starting with 1. If ptype is TM_LINE, set qkey equal to 0, else set qkey equal to the index value from RLqkeyport. For X.25 access on a T1 (XAT) ports, the attribute ptype will be TM_LINE. Therefore, populate qkey with 0 for XAT ports.

**Attribute: htgmod**

**Fullname:** Hunting Module for a MLHG.

**Attribute Description** Switching module which is designated the hunting module for a packet switching MLHG.

**Attribute: gblgrp**

**Fullname:** Global Group.

**Attribute Description** Indicator as to whether the packet switching MLHG is a Global or Local

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group. DBYES indicates a Global group. DBNO indicates a Local group.

**Attribute: chan_sel**

**Fullname:** Channel Selection

**Attribute Description** Specifies whether channel selection applies. Channel selection means that there are two or more channels with X.25 packet services that together make up one packet MLHG member. There is no longer a one to one mapping between RLpsprt_gp and RLpsgp_prt. When channel selection applies there will only be one port in RLpsgp_prt associated with this group and member. That port will be the same as the first assigned channel in RLcdnchan.

**Attribute: deactive**

**Fullname:** Deactive/Active Packet MLHG Indicator

**Attribute Description** Indicates the deactive/active hunt status of a packet MLHG member. If DBYES, then the member will be marked busy for hunted calls. This means that a deactivated packet MLHG member will always be considered busy for calls made to the group PSUCD DN or a linear entry point DN. The deactivation/activation status has no effect on non-hunted calls, which are calls made to a MLHG member using its individual DN. Deactivation only applies for a packet MLHG member with a port type of TM_LINE. Deactivation is not valid for a packet modem pool MLHG member. This check is done in RLpsgp_prt. When deactivation is yes, then the status for the member in RLrt_mem or RLrt_lgmem must equal 0. This check is done in RLpsgp_prt. Deactivation in this relation must be the same as deactivation in RLpsgp_prt. If channel selection equals DBYES, then deactivation must be same for all the associated channels in RLpsprt_gp. These checks are done in RLpsgp_prt.

**Defines:**
"db/DMvpidb.h",
"db/DMlinkno.h",
"db/DMparty.h"

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# PSPSN_RI

## 1. Description

This relation defines the route index of a destination packet switch.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 50 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| ks key store | DBNO |
| head page size | 512 |
| data page size | 512 |
| page level | 1 |

## 3. Field Layout

```
PSPSN_RI    relid = 1121  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     psn         DMUCHAR      (uchar)  <--- key, not stored
     route_x     DMRTEIDX     (ushort: 12)
         User and Compacted Tuple Layout   PSPSN_RI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |      psn      |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
  4 |        route_x        |***************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     route_x     DMRTEIDX     (ushort: 12)
           Stored Tuple Layout     PSPSN_RI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
  0 |        route_x        |***************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLpspsn_ri

**Relation Description**
The relation RLpspsn_ri associates a destination packet switch number with a route index.

This relation is used to route a packet switch call to a trunk at a tandem switch.

**Attribute: psn**

**Fullname:** Packet Switch Number

**Attribute Description** The destination packet switch is a switch that resides in the same IP

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subnetwork as this switch. An IP subnetwork is a set of switches connected by IP trunk groups. The destination packet switch provides the IP subnetwork interface with either the customer termination or with another packet switching network (via a gateway trunk group).

**Attribute: route_x**

**Fullname:** Route Index

**Attribute Description** RLpspsn_ri.route_x is used by tandem packet switch routing to determine the outgoing IP trunk group associated with a destination PSN. RLpspsn_ri.route_x provides the key for a tuple in RLrt_routing. RLrt_routing.portgrp.grpum identifies the outgoing IP trunk group number.

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# PSPVCINF

## 1. Description

This relation defines permanent virtual circuit data. pspvcinf is populated for PH, channel number, and party used for both DSL and X.75/X.75' trunk PVCs. psx25ln (for DSLs) or psx75trk (for X.75/X.75' trunks) as well as psmappvc relations must be populated before pspvcinf relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8192 |
| expected tuples in relation | 24 |
| density | 5 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| l1 length of subkey1, first 4 bits of local_lcn | 4 |
| p1 position of subkey1 | 24 |
| l2 length of subkey2, first 3 bits of ph_cn | 3 |
| p2 position of subkey2 | 8 |
| l3 length of subkey3 | 3 |
| p3 position of subkey3 | 17 |
| l4 length of subkey4, all 7 bits of ph_number | 7 |
| p4 position of subkey4 | 0 |
| l5 length of subkey5, last 4 bits of ph_cn | 4 |
| p5 position of subkey5 | 11 |
| l6 length of subkey6, last 3 bits of local_lcn | 3 |
| p6 position of subkey6 | 28 |
| ks key store | AUTO |
| trigger function | RTrcpvcinf |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ignore key bits | 16 |

## 3. Field Layout

```
PSPVCINF    relid = 814   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     ph_number   DMPHNBR      (uchar: 7)        <--- key, not stored
     ph_cn       DMPHCN       (uchar: 7)        <--- key, not stored
     party       DMPARTY      (ushort: 4)       <--- key, not stored
     local_lcn   DMPS_LCN     (uchar: 7)        <--- key, not stored
     rmt_dnic    DMPSDNIC     (ushort)
     pvc_id_num  DMUSHORT     (ushort)
     remote_lcn  DMPKT_LCN    (ushort: 12)
 (a) send_pktsz  DMPS_PKTSZ   (enum: 4)
     lnkid_g1p   DMUCHAR      (uchar)
     psn         DMUCHAR      (uchar)
 (b) rcv_pktsz   DMPS_PKTSZ   (enum: 4)
 (c) in_thrupt   DMPSTHRUPT   (enum: 4)
 (d) out_thrupt  DMPSTHRUPT   (enum: 4)
 (e) send_wndwsz  DMPS_WDWSZ   (enum: 3)
 (f) call_indc   DMPSCALDTN   (enum: 1)
 (g) rcv_wndwsz  DMPS_WDWSZ   (enum: 3)
 (h) fcltype     DMPSFCLTYP   (enum: 3)
 (i) billable    DMBOOL       (enum: 1)
 (j) intra_grp   DMBOOL       (enum: 1)
```

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```
    rmt_dn      DMDN         (struct)  <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
           User Tuple Layout      PSPVCINF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               | |             | |       |     |               | |
 0 |  ph_number    |*|    ph_cn    |*| party |*******|  local_lcn    |*|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |            rmt_dnic           |           pvc_id_num          |
   |---------------+---------------+---------------+---------------|
   |                       |       |               |               |
 8 |       remote_lcn      |   a   |   lnkid_g1p   |      psn      |
   |---------------+---------------+---------------+---------------|
   |       |       |       |     | |     |     | | |               |
12 |   b   |   c   |   d   |  e  |f|  g  |  h  |i|j|***************|
   |===============+===========  rmt_dn ===========+===============|
   |       |       |                                               |
16 | digcnt|*******|                      dn                       |
   | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
20 |                               dn                              |
   | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
24 |                               dn                              |
   | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
28 |                               dn                              |
   |===============+===============+===============+===============|
      ( 32 bytes )


    ph_number   DMPHNBR      (uchar: 7)        <--- key, not stored
    ph_cn       DMPHCN       (uchar: 7)        <--- key, not stored
    party       DMPARTY      (ushort: 4)       <--- key, not stored
    local_lcn   DMPS_LCN     (uchar: 7)        <--- key, not stored
    rmt_dnic    DMPSDNIC     (ushort)
    pvc_id_num  DMUSHORT     (ushort)
    remote_lcn  DMPKT_LCN    (ushort: 12)
(a) send_pktsz  DMPS_PKTSZ   (enum: 4)
    lnkid_g1p   DMUCHAR      (uchar)
    psn         DMUCHAR      (uchar)
(b) rcv_pktsz   DMPS_PKTSZ   (enum: 4)
(c) in_thrupt   DMPSTHRUPT   (enum: 4)
(d) out_thrupt  DMPSTHRUPT   (enum: 4)
(e) send_wndwsz  DMPS_WDWSZ   (enum: 3)
(f) call_indc   DMPSCALDTN   (enum: 1)
(g) rcv_wndwsz  DMPS_WDWSZ   (enum: 3)
(h) fcltype     DMPSFCLTYP   (enum: 3)
(i) billable    DMBOOL       (enum: 1)
(j) intra_grp   DMBOOL       (enum: 1)
    rmt_dn      DMCDN        (struct)  <--- compacted
```

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```
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
         Compacted Tuple Layout   PSPVCINF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               | |             | |       |       |             | |
 0 |  ph_number    |*|    ph_cn    |*| party |*******|  local_lcn  |*|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |            rmt_dnic           |           pvc_id_num          |
   |---------------+---------------+---------------+---------------|
   |                       |       |               |               |
 8 |       remote_lcn      |   a   |   lnkid_g1p   |      psn      |
   |---------------+---------------+---------------+---------------|
   |       |       |       |     | |     |     | | |               |
12 |   b   |   c   |   d   |  e  |f|  g  |  h  |i|j|***************|
   |===============+===========  rmt_dn ===========+===============|
   |       |       |       |       |       |       |       |       |
16 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
20 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
   |===============+===============+===============+===============|
   |                                                               |
24 |***************************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
28 |***************************************************************|
   |---------------+---------------+---------------+---------------|
     ( 32 bytes )


    rmt_dnic    DMPSDNIC     (ushort)
    pvc_id_num  DMUSHORT     (ushort)
    remote_lcn  DMPKT_LCN    (ushort: 12)
(a) send_pktsz  DMPS_PKTSZ   (enum: 4)
    lnkid_g1p   DMUCHAR      (uchar)
    psn         DMUCHAR      (uchar)
(b) rcv_pktsz   DMPS_PKTSZ   (enum: 4)
```

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```
(c) in_thrupt   DMPSTHRUPT   (enum: 4)
(d) out_thrupt  DMPSTHRUPT   (enum: 4)
(e) send_wndwsz  DMPS_WDWSZ   (enum: 3)
(f) call_indc   DMPSCALDTN   (enum: 1)
(g) rcv_wndwsz  DMPS_WDWSZ   (enum: 3)
(h) fcltype     DMPSFCLTYP   (enum: 3)
(i) billable    DMBOOL       (enum: 1)
(j) intra_grp   DMBOOL       (enum: 1)
    rmt_dn      DMCDN        (struct)  <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
          Stored Tuple Layout     PSPVCINF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            rmt_dnic           |           pvc_id_num          |
   |---------------+---------------+---------------+---------------|
   |                       |       |               |               |
 4 |       remote_lcn      |   a   |   lnkid_g1p   |      psn      |
   |---------------+-------+-------+---------------+---------------|
   |       |       |       |     | |     |     | | |               |
 8 |   b   |   c   |   d   |  e  |f|  g  |  h  |i|j|***************|
   |===============+===========  rmt_dn ==========+===============|
   |       |       |       |       |       |       |       |       |
12 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
16 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
   |===============+===============+===============+===============|
      ( 20 bytes )
```

## 4. Population rules for RLpspvcinf

### Relation Description

Packet Switching Permanent Virtual Circuit information.

This relation defines Permanent Virtual Circuit (PVC) information. RLpspvcinf is populated for Protocol Handler channels which are

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defined as either a PPB DSL, or a XAT, X.75' or X.75 trunk member port and make use of PVC's. PVCs may exist on single and multi-point DSL D channels; however, the multipoint DSL D channel user must be a 'First Initializing Terminal (FIT)'.

PVC's cannot be assigned to On-Demand B (ODB) DSL ports or to IP Trunk channels.

"As of 5E9, X.25 Packet Switching will no longer be supported by the PH2 Access Image. All X.25 Packet Switching will only be supported by PH3's.

This relation defines permanent virtual circuit data. On-Demand B-Channel Packet Switching (ODB) will not have a tuple in this relation because PVCs are not allowed on B-Channels used for ODB.

A PVC may be assigned to a packet switching channel of a DSL, an XAT port or an X.75 / X.75' trunk member. RLpsx25ln (for DSLs and XAT ports) or RLpsx75trk (for X.75 / X.75' trunk members) as well as RLpsmappvc relations must be populated before the RLpspvcinf relation. A tuple is populated when a PVC is assigned to a packet switching channel of a DSL, an XAT port or X.75 / X.75' trunk member.

A PVC may not exist between two X.75 trunk members or between a X.75 to X.75' connection.

Beginning with the 5E8 software release the ability to provide alternate routing for X.75 and X.75' trunk groups was allowed. The 5E8 software release has also introduced the ability to provide X.75' tandem trunks thru the 5ESS(R)-2000 switch and the ability to directly connect ISDN Switches via X.75' trunk groups. Refer to the fcltype, remote_lcn, psn and lnkid_g1p attributes for more information.
WARNING: X.75 and X.75' trunks with PVCs and alternate routing must be provisioned very carefully. PVCs will NOT alternate route on these trunks.

Beginning with the 5E14 software release a new fcltype of PNINET (Internet Protocol Interface) was added. If the interface for PNINET is an X.75/X.75' trunk then it will be supported only on a PH3 or PH4.

NOTE: general checks about (PSX25,PSX75) are located at the general (RULE about RLpspvcinf:)"

**Attribute:**
ph_number
**Fullname:**
Protocol Handler number.

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**Attribute Description:**

Also called DSL group number.

For efficient memory utilization, the PH number should be assigned sequentially.

The Protocol Handler number that a X.25 access on a T1 (XAT) port, a Packet DSL port or a X.75 / X.75' trunk member port is assigned is determined by the PH number entered via RCV/ODA.

As of 5E9, X.25 Packet Switching will no longer be supported by the PH2 Access Image. All X.25 Packet Switching will only be supported by PH3's.

**Attribute:**

ph_cn

**Fullname:**

Protocol Handler channel number.

**Attribute Description:**

PH channel number (key2), also called DSL group member. The range is from 0 to 127. For efficient memory utilization, the PH channel number should be assigned sequentially.

For a given ph_number and ph_cn, there must be a matching tuple in dslequip and equipdsl relations such that ph_number = rlDSLEQUIP.dsl_group = rlEQUIPDSL.dsl_group, ph_cn = rlDSLEQUIP.member = rlEQUIPDSL.member

The Protocol Handler channel number that a X.25 access on a T1 (XAT) port, a packet DSL port or a X.75 / X.75' trunk member port is assigned is determined by the PH channel number entered via RCV/ODA.

If the port is an X.75 or X.75' trunk and the PH is of type PH2 then the ph_cn must be 0.

If the port is an X.75 or X.75' trunk and the PH is of type PH3 or PH4 then ph_cn may be (0,4,8...20) in even multiples of four as long as all members on a given PH3 or PH4 are of the same trunk level 2 profile and all of the ports are equipped on the same SM. It is recommended that a maximum of 4 X.75' or X.75 trunk members be assigned to a given PH3 or PH4.
HARDWARE CONVERSION NOTE:
If the PH3 or PH4 is to be converted to a PH2 only 1 member may be assigned to the PH3 or PH4 and the 'ph_cn' attribute must equal 0 otherwise the conversion will be blocked!

**Attribute:**

party

**Fullname:**

DSL D channel multipoint.

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**Attribute Description:**

specific packet user (key3) within an ISDN DSL D-channel. There can be up to 8 packet user Service Order Profiles (SOPs) defined.

Permanent Packet B-channels (PPB) are populated with FCP_BCHAN (0). Packet trunks (X.75 / X.75') are populated with FCP_PKTTRK (0). If the party != 0, then for a given ph_number, ph_cn, and party, there must be a matching tuple in psx25ln relation.

This attribute is not used by X.25 access on a T1 (XAT) port, populate with FCP_INDI (0) for XAT ports.

**Attribute:**

local_lcn

**Fullname:**

Permanent Virtual Circuit local Logical Channel Number.

**Attribute Description:**

The local_lcn is the Logical Channel Number (LCN) of the PVC from an X.25 to X.25 PVC link, an X.25 to X.75 PVC link, an X.25 to X.75' PVC link or an X.75' to X.75' PVC link. The local_lcn is the LCN of the 'near end' side of the link and is provisioned as the 'far or remote' end on the other side of the PVC link. Each side of the PVC link must provision a local_lcn and remote_lcn value (these values are the inverse of each other for 'near end' and 'far end' provisioning.

The values for local_lcn are in the range 1 - 127.

For X.25 access on a T1 (XAT) ports and X.25 DTE packet users populate with the port / user PVC LCN (near end).

For X.75 / X.75' trunk PVCs, this is the LCN of the X.75 / X.75' trunk PVC (near end).

**Attribute:**

send_pktsz

**Fullname:**

Packet size for sending.

**Attribute Description:**

Packet size for sending, either in PKTSZ128 or in PKTSZ256 enumeration type.

For X.25 access on a T1 (XAT) ports, packet DSL ports or X.75 / X.75' trunk members populate with outgoing (send) packet size entered via RCV/ODA.

For fcltype of PNINET the recommended send packet size is 256.

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**Attribute:**
send_wndwsz
**Fullname:**
Window size for sending.
**Attribute Description:**
Packet Level 3 Window size for sending direction.

For X.25 access on a T1(XAT) ports, packet DSL ports or X.75/X.75' trunk member ports populate with outgoing(snd) window size entered via RCV/ODA. The allowed values for the window size are 1-7. The value of null is not allowed.

For an fcltype of PNINET the recommended send window size is 7.

**Attribute:**
rcv_pktsz
**Fullname:**
Packet size for receiving.
**Attribute Description:**
Packet size for receiving, in PKTSZ128 or in PKTSZ256.

For X.25 access on a T1 (XAT) ports, packet DSL ports or X.75 / X.75' trunk member ports populate with incoming (receive) packet size entered via RCV/ODA.

For an fcltype of PNINET the recommended receive packet size is 256.

**Attribute:**
rcv_wndwsz
**Fullname:**
Window size for receiving.
**Attribute Description:**
Packet Level 3 Window size for receiving direction.

For X.25 access on a T1(XAT) ports, packet DSL ports or X.75/X.75' trunk member ports populate with incoming(rcv) window size entered via RCV/ODA. The allowed values for the window size are 1-7. The value of null is not allowed.

For an fcltype of PNINET the recommended receive window size is 7.

**Attribute:**
remote_lcn
**Fullname:**
Remote Logical Channel Number.
**Attribute Description:**
This attribute populates the remote logical channel number for a Permanent Virtual Circuit (PVC) link from an X.25 to

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X.25 PVC link, an X.25 to X.75 PVC link, an X.25 to X.75' PVC link or an X.75' to X.75' PVC link. The remote_lcn is the LCN of the 'far end' side of the link and is provisioned as the 'near' end on the other side of the PVC link. Each side of the PVC link must provision a remote_lcn and local_lcn value (these values are the inverse of each other for 'far end' and 'near end' provisioning.

The values 1 to 4095 will be populated to accommodate other public packet switching networks; however, for the remote_lcn of a DTE on the 5ESS(R)-2000 switch, the values 1 to 127 will be populated for a B channel and 1 to 15 for a D channel.

For X.25 access on a T1 (XAT) ports and X.25 DTE packet users populate with the remote PVC (X.75 or X.75') LCN (far end). The fcltype attribute could be PSX25, PSX75 or PSX75P.

For X.75 trunk PVCs, this is the LCN of the X.25 DTE PVC LCN (far end access port). The fcltype must always equal PSX25 for X.75 trunk PVCs.

For X.75' trunk PVCs, this is either the LCN of the X.25 DTE PVC LCN or of the tandem X.75' trunk PVC LCN (far end access port). In this case the fcltype attribute will either equal PSX25 or PSX75P respectfully.

Otherwise, remote_lcn is the lcn of the gateway link (1PSS). See attributes rmt_dnic and lnkid_g1p.

For X.75/X.75' trunk PVCs with fcltype of PNINET, the remote_lcn is blocked since a remote dn does not exist. The remote_lcn for the PVC will be internally generated.

**Attribute:**

rmt_dn

**Fullname:**

Remote Directory Number.

**Attribute Description:**

Directory number of the other end of the PVC.
The rmt_dn is a structure of two decimal members: digcnt (digit count) and dn. The digcnt ranges between numerals 0 and 10 and the dn ranges from 0 to 10 digits.

If RLpspvcinf.fcltype (remote end facility type) is PSX25, PSX75, PSX75P or PNINET, rmt_dn may or may not be specified using the following criteria:

- If the RLpspvcinf.fcltype is PSX25 and the PVC is also PSX25 then the rmt_dn must be specified.

- If the RLpspvcinf.fcltype is PSX25 and the PVC is PSX75 then the rmt_dn must be specified.

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If the RLpspvcinf.fcltype is PSX25 and the PVC is PSX75P
then the rmt_dn must be specified.

If the RLpspvcinf.fcltype is PSX75P and the PVC is PSX25
then the rmt_dn must be specified.

If the RLpspvcinf.fcltype is PSX75P and the PVC is PSX75P
then the rmt_dn must NOT be specified.

If the RLpspvcinf.fcltype is PSX75 and the PVC is PSX25
then the rmt_dn must NOT be specified.

If the RLpspvcinf.fcltype is PNINET and the PVC is PSX25
then the rmt_dn must NOT be specified.

If the RLpspvcinf.fcltype is PNINET and the PVC is PSX75
then the rmt_dn must NOT be specified.

If the RLpspvcinf.fcltype is PNINET and the PVC is PSX75P
then the rmt_dn must NOT be specified.

PSX25 uses the rmt_dn to determine the route to the destination
and to generate billing records.

For fcltyp of PSX25 the dn member of rmt_dn must have
10 digits in the form of: npa (3 digits) + office code
(3 digits) + station number ( 4 digits).

For X.75 / X.75' trunk PVCs rmt_dn should be populated with
the access port address (directory number).

A PSX75 fcltype or a PSX75P to PSX75P tandem PVC does not use
this field since the packet switching gateway takes care of both
routing to the destination and generating billing records.
Therefore, the digit count of rmt_dn must be set to 0, and the
digits must be set to a null string.

Although the rmt_dn is not used locally for routing a
PVC if the fcltype == PSX75P or PSX75 the rmt_dn must be
populated for billing purposes on the other end of the
PVC. It must have a variable lenth to accommodate the
dialing plans  outside of this network. In this case,
the lenth of the dn member of rmt_dn can vary from 1
to 10 digits.

**Attribute:**

rmt_dn.digcnt

**Fullname:**

Count of digits.

**Attribute Description:**

For XAT ports which have fcltyp of PSX25, the digcnt

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member of rmt_dn will always be equal to 10 digits.

**Attribute:**
rmt_dn.dn
**Fullname:**
Directory Number.
**Attribute Description:**
Directory number of the other end of the PVC.
For XAT ports which have fcltyp of PSX25, the dn member of rmt_dn must have 10 digits in the form of: npa (3 digits) + office code (3 digits) + station number ( 4 digits).

**Attribute:**
call_indc
**Fullname:**
Calling or called indicator.
**Attribute Description:**
Calling or called indicator (PSCALLING or PSCALLED), a value must be specified, there is no default.
If this end of the PVC has a call_indc == PSCALLING, then the call_indc of the other end of the PVC must equal PSCALLED. Similarly, if this end of the of the PVC has a call_indc == PSCALLED then the call_indc of the other end rmt_dn must == PSCALLING.
This attribute must be populated as previously outlined for XAT ports packet DSL ports and X.75 / X.75' trunk member ports.

**Attribute:**
billable
**Fullname:**
Billable or nonbillable indicator.
**Attribute Description:**
billable (DBYES) or nonbillable (DBNO) indicator.
(if tuple is for X.75' trunk PVC billable=DBNO, otherwise, default is DBYES)

For X.75 trunk tuples, if billable equals DBYES, this indicates that the far end of the PVC (remote STE) is the billable user; billable equals DBNO indicates that the local end is the billable user.

**Attribute:**
fcltype
**Fullname:**
Destination Facility Type.
**Attribute Description:**

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Destination PVC Facility Type (PSX25/PSX75/PSX75P/PNINET). If the destination facility type is PSX75 or PSX75P and the tuple is for an X.25 DTE user or X.25 access on a T1 port then rmt_dnic and lnkid_g1p must be nonzero.

For an X.25 DTE user or X.25 access on a T1 (XAT) port populate this attribute with PSX25, PSX75 or PSX75P.

For an X.75 trunk member port PVC populate this attribute with PSX25.

For an X.75' trunk member port PVC populate this attribute with either PSX25 or PSX75P. If the value entered is PSX75P then the remote_lcn, lnkid_g1p and psn attributes must be non-zero.

Value must be specified, no default.

**Attribute:**
rmt_dnic
**Fullname:**
Remote Data Network Identification Code.
**Attribute Description:**
data network identification code of the network to which the gateways X.75 and X.75' links.

Range for remote dnic is 0001-9999 when entered by operating company personnel. Hex digits A through F are not allowed. If nothing is entered, the field should be populated with 0000.

If and only if fcltype is PSX25 or PNINET, rmt_dnic is not to be populated by operating company--the value must be 0000. Although the rmt_dnic is not used for routing, if the fcltype of the PVC is PSX75P or PSX75 the rmt_dnic may be required at the other end of the PVC for billing purposes.

**Attribute:**
lnkid_g1p
**Fullname:**
Gateway Link Identification.
**Attribute Description:**
Gateway Link ID is the link_id associated with the remote end of the PVC when the PVC terminates on an X.75 or X.75' packet trunk.

PVCs between X.75' and X.75 trunk groups are NOT permitted. PVCs between X.75' and X.75' trunk groups are permitted (X.75' tandem trunks).

The attribute must equal 0 if the fcltype is PSX25 or PNINET.

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The valid range is from 0 to 255.

**Attribute:**
psn
**Fullname:**
Packet Switch Number.
**Attribute Description:**
The destination packet switch is a switch that resides in the same IP subnetwork as this switch. An IP subnetwork is a set of switches connected by IP trunk groups.

If the RLpspvcinf.fcltype is PSX75 or PSX75P, then the RLpspvcinf.psn identifies the destination packet switch that provides the IP subnetwork interface with another packet switching network (via a gateway trunk group).

In the 5e8 software release the ability to directly connect X.75' trunk groups from the 5ESS(R)-2000 switch to another ISDN Switch was introduced (if the other switch is a 5ESS(R)-2000 switch it must be operating on the 5e8 or later software release and if the other switch is another vendors switch it must be compliant with Telcordia Technologies TR-301, Issue 2). In this application the fcltype will be PSX75 or PSX75P and the psn may or may not be the psn number for this switch (if the psn equals Glpsn then this is a tandem from this 5ESS(R)-2000 switch and IP trunks are not used; however, if the psn is not equal to Glpsn then this is a tandem to another 5ESS(R)-2000 switch in the IP network as previously described.

If RLpspvcinf.fcltype == PSX25 , then RLpspvcinf.psn = 0.

If RLpspvcinf.fcltype == PNINET, then RLpspvcinf.psn = 0.

If RLpspvcinf.psn != Glpsn && RLpspvcinf.psn != 0, then a tuple must exist in RLpspsn_ri such that RLpspsn_ri.psn == RLpspvcinf.psn.

PVCs between X.75' and X.75 trunk groups are NOT permitted.

**Attribute:**
intra_grp
**Fullname:**
Packet switching data business group service.
**Attribute Description:**
Used by packet switching data business group service feature. This feature provides a means of setting up and administering packet switched data business groups, for the purpose of distinguishing between intra-group and other (non intra-group) PVCs on AMA (billing) records.

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If the pvc is to be considered intra-group for billing purposes, then populate with DBYES.
If the pvc is to be considered otherwise for billing purposes, then populate with DBNO.

If billable = DBNO, then intra_grp should be DBNO.
If intra_grp = DBYES, then each X.25/XAT user should be members of the same packet switch business group.

Attribute is not to be used by X.75 / X.75' trunk member ports.

**Attribute:**
in_thrupt
**Fullname:**
Incoming throughput class.
**Attribute Description:**
access port incoming throughput class
(used for X.75 / X.75' tuples only)

This attribute is not used by X.25 access on a T1 (XAT) port or packet DSL ports. Populate with PSTHNULL for XAT and packet DSL ports.

**Attribute:**
out_thrupt
**Fullname:**
Outgoing throughput class.
**Attribute Description:**
access port outgoing throughput class
(used for X.75 / X.75' tuples only)

This attribute is not used by X.25 access on a T1 (XAT) ports or packet DSL ports. Populate with PSTHNULL for XAT and packet DSL ports.

**Attribute:**
pvc_id_num
**Fullname:**
PVC Identification number.
**Attribute Description:**
This attribute contains a number assigned to an X.75 PVC to be used for AMA internetwork billing records.
If the tuple is for a PVC which is not an X.75 PVC, pvc_id_num should be zero.

**Defines:**
"db/DMportindx.h"

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# PSRI_PSN

## 1. Description

This relation defines the packet switch number of a destination packet switch.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| expected tuples in relation | 9 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
PSRI_PSN    relid = 815   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     route_x     DMRTEIDX     (ushort: 14)     <--- key
     psn         DMUCHAR      (uchar)
     npsn        DMUCHAR      (uchar)
         User, Compacted and Stored Tuple Layout   PSRI_PSN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |   |               |               |
  0 |          route_x              |***|      psn      |      npsn     |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLpsri_psn

**Relation Description**
Route index to packet switch number

This relation associates a route index with the destination packet switch and the next packet switch within an Internal Protocol (IP) subnetwork.

**Attribute: route_x**

**Fullname:** Route index

**Attribute Description** Route index for IP trunk groups.

**Attribute: psn**

**Fullname:** Destination packet switch number

**Attribute Description** The destination packet switch is a switch that resides in the same IP subnetwork as this switch. An IP subnetwork is a set of switches connected by IP trunk groups. The destination packet switch provides the IP subnetwork interface with either the customer termination or with another packet switching network (via a gateway trunk group).

**Attribute: npsn**

**Fullname:** Next packet switch number

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**Attribute Description** The packet switch identified by npsn is the next switch in the path between the originating switch and the destination switch. The next switch is an adjacent switch that is directly connected to this switch by the Internal Protocol (IP) trunk group identified by RLrt_routing.portgrp.grpnum (where RLrt_routing.route_x == RLpsri_psn.route_x).

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# PSTNI_ID

## 1. Description

Packet switching clearing sub-network identifier.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 1 |
| trigger function | RTrctni_id |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | unperm |

## 3. Field Layout

```
PSTNI_ID    relid = 1791  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
 (a) ofc_id      DMUNS1       (ushort: 1)  <--- key
     i_d_count   DMUNS5       (ushort: 5)
     inic1_dnic  DMPSDNIC     (ushort)
     inic2_dnic  DMPSDNIC     (ushort)
     inic3_dnic  DMPSDNIC     (ushort)
     inic4_dnic  DMPSDNIC     (ushort)
     inic5_dnic  DMPSDNIC     (ushort)
     inic6_dnic  DMPSDNIC     (ushort)
     inic7_dnic  DMPSDNIC     (ushort)
     inic8_dnic  DMPSDNIC     (ushort)
     inic9_dnic  DMPSDNIC     (ushort)
     inic10_dnic  DMPSDNIC     (ushort)
     inic11_dnic  DMPSDNIC     (ushort)
     inic12_dnic  DMPSDNIC     (ushort)
     inic13_dnic  DMPSDNIC     (ushort)
     inic14_dnic  DMPSDNIC     (ushort)
     inic15_dnic  DMPSDNIC     (ushort)
     inic16_dnic  DMPSDNIC     (ushort)
     inic17_dnic  DMPSDNIC     (ushort)
     inic18_dnic  DMPSDNIC     (ushort)
     inic19_dnic  DMPSDNIC     (ushort)
     inic20_dnic  DMPSDNIC     (ushort)
         User, Compacted and Stored Tuple Layout   PSTNI_ID
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | |         |                   |                               |
  0 |a|i_d_count|*******************|           inic1_dnic          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |           inic2_dnic          |           inic3_dnic          |
```

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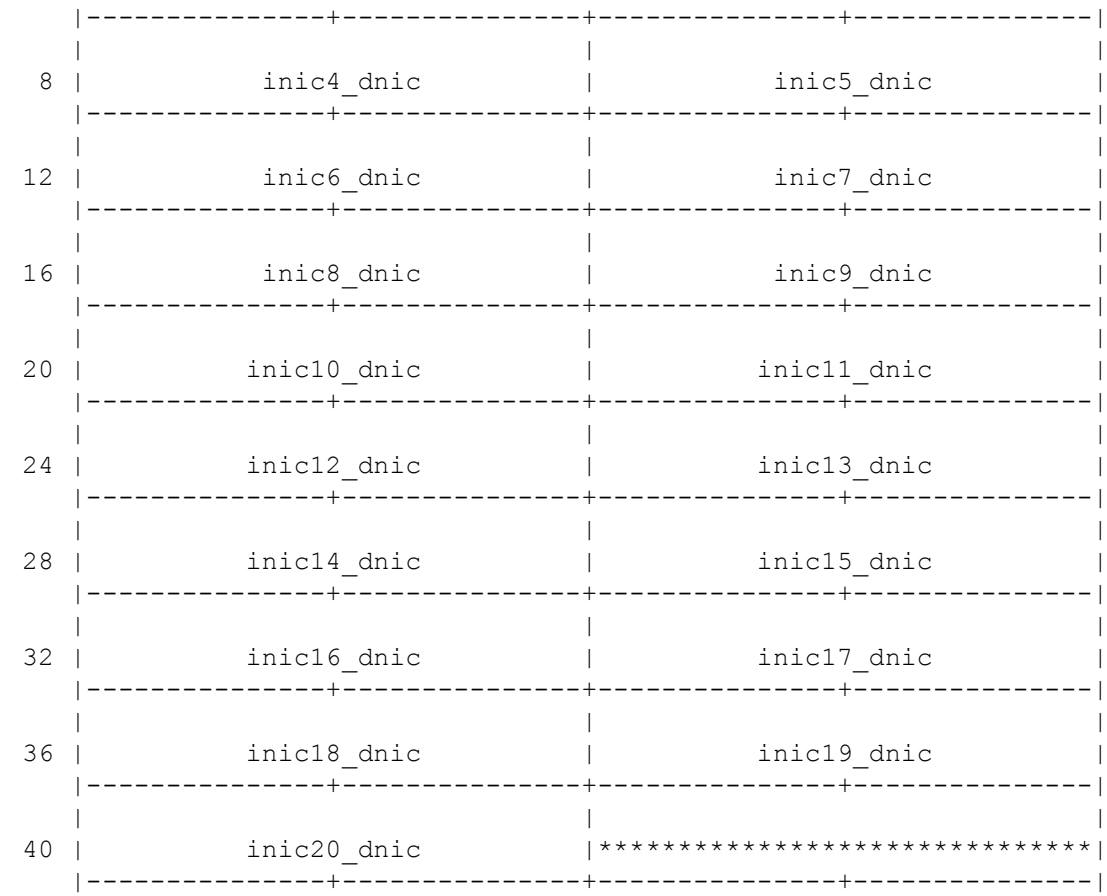
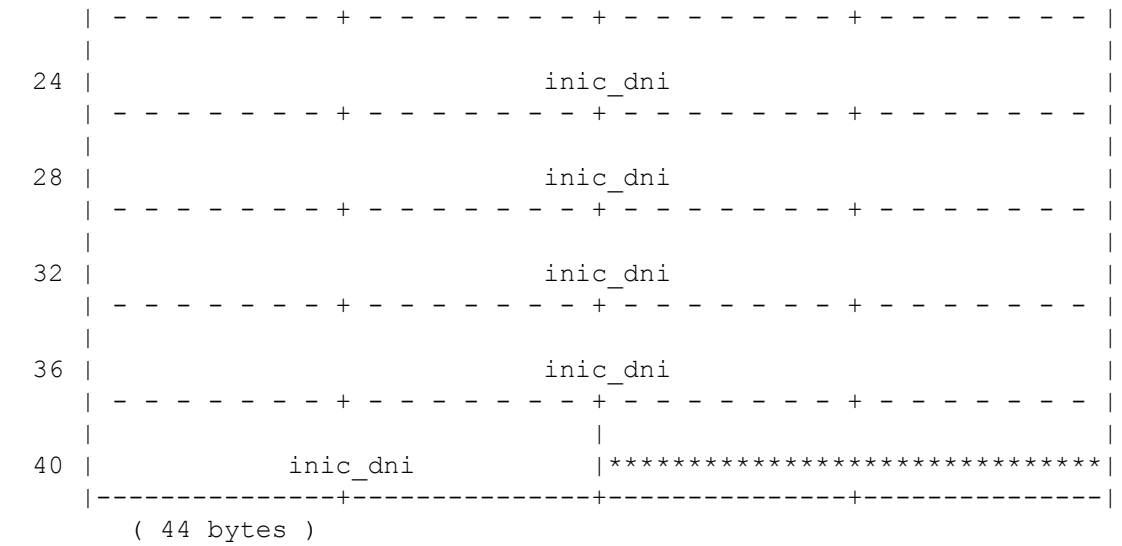



( 44 bytes )

```
domain alPSTNI_ID   struct  (3 sub-attributes)
 (a)     ofc_id      .2.fake      (ushort: 1)
         i_d_coun    .3.fake      (ushort: 5)
         inic_dni    .4.fake      (array [ 20 ] of unsigned short )
         Structure Layout      alPSTNI_ID
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | |         |                   |                               |
  0 |a| i_d_coun|*******************|            inic_dni           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                           inic_dni                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                           inic_dni                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                           inic_dni                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                           inic_dni                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                           inic_dni                            |
```




## 4. Population Rules for RLpstni_id

**Relation Description**
The relation is used to provision a list of up to 20 shared ISDN network identification codes/data network identification codes (INICs/DNICs), hereby referred to as transit network identifiers (TNIs), for the entire switch.

The number of entries in the inic1_dnic - inic20_dnic attributes may vary from 0 to 20. In other words, the list can be empty (0 entries where i_d_count and all 20 inicX_dnic attributes are equal to zero), or the list may contain TNI entries (the i_d_count attribute value will be from 1-20 and shared TNI values will be entered in the inicX_dnic attributes up to the value of i_d_count).

The entries in the inic1_dnic - inic20_dnic attributes must be unique. The relation has no direct coupling with the tni_state attribute in RLpsx75trk. Refer to the RLpsx75trk.tni_state usage section for more information on the use of this relation.

The relation is populated the same on all ISDN SMs to allow static data transport to update the PH global data PSshrddnic whenever one of the 20 TNIs is changed through service provisioning (group partitioned data type is GPDISDN).

**Attribute: ofc_id**

**Fullname:** Office Identification Number

**Attribute Description** This attribute should always be populated with the value 0.

**Attribute: i_d_count**

**Fullname:** Unique TNI Attribute ID Counter

**Attribute Description** This attribute is used to store a count of the number of unique TNI ID values entered in the attributes inic1_dnic through inic20_dnic. If the value equals zero then all 20 of the inicX_dnic attributes must be populated with 0x0000.
When this attribute contains a value K greater than zero then the first K inicX_dnic attributes must contain a value in the range 0x0001 through 0x9999.

**Attribute: inic1_dnic**

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**Fullname:** Shared transit network identifier (TNI) 1

**Attribute Description** Attribute used to store the first transit network identifier in the shared list. This number must be unique among all 20 possible TNI values in the relation. The value 0x0000 represents no TNI entered. Valid TNI values are 0x0001 through 0x9999.

**Attribute: inic2_dnic**

**Fullname:** Shared transit network identifier (TNI) 2

**Attribute Description** Attribute used to store the second transit network identifier in the shared list. This number must be unique among all 20 possible TNI values in the relation. The value 0x0000 represents no TNI entered. Valid TNI values are 0x0001 through 0x9999.

**Attribute: inic3_dnic**

**Fullname:** Shared transit network identifier (TNI) 3

**Attribute Description** Attribute used to store the third transit network identifier in the shared list. This number must be unique among all 20 possible TNI values in the relation. The value 0x0000 represents no TNI entered. Valid TNI values are 0x0001 through 0x9999.

**Attribute: inic4_dnic**

**Fullname:** Shared transit network identifier (TNI) 4

**Attribute Description** Attribute used to store the fourth transit network identifier in the shared list. This number must be unique among all 20 possible TNI values in the relation. The value 0x0000 represents no TNI entered. Valid TNI values are 0x0001 through 0x9999.

**Attribute: inic5_dnic**

**Fullname:** Shared transit network identifier (TNI) 5

**Attribute Description** Attribute used to store the fifth transit network identifier in the shared list. This number must be unique among all 20 possible TNI values in the relation. The value 0x0000 represents no TNI entered. Valid TNI values are 0x0001 through 0x9999.

**Attribute: inic6_dnic**

**Fullname:** Shared transit network identifier (TNI) 6

**Attribute Description** Attribute used to store the sixth transit network identifier in the shared list. This number must be unique among all 20 possible TNI values in the relation. The value 0x0000 represents no TNI entered. Valid TNI values are 0x0001 through 0x9999.

**Attribute: inic7_dnic**

**Fullname:** Shared transit network identifier (TNI) 7

**Attribute Description** Attribute used to store the seventh transit network identifier in the shared list. This number must be unique among all 20 possible TNI values in the relation. The value 0x0000 represents no TNI entered. Valid TNI values are 0x0001 through 0x9999.

**Attribute: inic8_dnic**

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**Fullname:** Shared transit network identifier (TNI) 8

**Attribute Description** Attribute used to store the eighth transit network identifier in the shared list. This number must be unique among all 20 possible TNI values in the relation. The value 0x0000 represents no TNI entered. Valid TNI values are 0x0001 through 0x9999.

**Attribute: inic9_dnic**

**Fullname:** Shared transit network identifier (TNI) 9

**Attribute Description** Attribute used to store the ninth transit network identifier in the shared list. This number must be unique among all 20 possible TNI values in the relation. The value 0x0000 represents no TNI entered. Valid TNI values are 0x0001 through 0x9999.

**Attribute: inic10_dnic**

**Fullname:** Shared transit network identifier (TNI) 10

**Attribute Description** Attribute used to store the tenth transit network identifier in the shared list. This number must be unique among all 20 possible TNI values in the relation. The value 0x0000 represents no TNI entered. Valid TNI values are 0x0001 through 0x9999.

**Attribute: inic11_dnic**

**Fullname:** Shared transit network identifier (TNI) 11

**Attribute Description** Attribute used to store the eleventh transit network identifier in the shared list. This number must be unique among all 20 possible TNI values in the relation. The value 0x0000 represents no TNI entered. Valid TNI values are 0x0001 through 0x9999.

**Attribute: inic12_dnic Fullname:** Shared transit network identifier (TNI) 12
**Attribute Description** Attribute used to store the twelfth transit network identifier in the shared list. This number must be unique among all 20 possible TNI values in the relation. The value 0x0000 represents no TNI entered. Valid TNI values are 0x0001 through 0x9999.

**Attribute: inic13_dnic**
**Fullname:** Shared transit network identifier (TNI) 13
**Attribute Description** Attribute used to store the thirteenth transit network identifier in the shared list. This number must be unique among all 20 possible TNI values in the relation. The value 0x0000 represents no TNI entered. Valid TNI values are 0x0001 through 0x9999.

**Attribute: inic14_dnic Fullname:** Shared transit network identifier (TNI) 14
**Attribute Description** Attribute used to store the fourteenth transit network identifier in the shared list. This number must be unique among all 20 possible TNI values in the relation. The value 0x0000 represents no TNI entered. Valid TNI values are 0x0001 through 0x9999.

**Attribute: inic15_dnic Fullname:** Shared transit network identifier (TNI) 15
**Attribute Description** Attribute used to store the fifteenth transit network identifier in the shared list. This number must be unique among all 20 possible TNI values in the relation. The value 0x0000 represents no TNI entered. Valid TNI values are 0x0001 through 0x9999.

**Attribute: inic16_dnic Fullname:** Shared transit network identifier (TNI) 16
**Attribute Description** Attribute used to store the sixteenth transit network identifier in the shared list. This number must be unique among all 20 possible TNI values in the relation. The value 0x0000 represents no TNI entered. Valid TNI values are 0x0001 through 0x9999.

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**Attribute: inic17_dnic Fullname:** Shared transit network identifier (TNI) 17

**Attribute Description** Attribute used to store the seventeenth transit network identifier in the shared list. This number must be unique among all 20 possible TNI values in the relation. The value 0x0000 represents no TNI entered. Valid TNI values are 0x0001 through 0x9999.

**Attribute: inic18_dnic**

**Fullname:** Shared transit network identifier (TNI) 18

**Attribute Description** Attribute used to store the eighteenth transit network identifier in the shared list. This number must be unique among all 20 possible TNI values in the relation. The value 0x0000 represents no TNI entered. Valid TNI values are 0x0001 through 0x9999.

**Attribute: inic19_dnic Fullname:** Shared transit network identifier (TNI) 19

**Attribute Description** Attribute used to store the nineteenth transit network identifier in the shared list. This number must be unique among all 20 possible TNI values in the relation. The value 0x0000 represents no TNI entered. Valid TNI values are 0x0001 through 0x9999.

**Attribute: inic20_dnic Fullname:** Shared transit network identifier (TNI) 20

**Attribute Description** Attribute used to store the twentieth transit network identifier in the shared list. This number must be unique among all 20 possible TNI values in the relation. The value 0x0000 represents no TNI entered. Valid TNI values are 0x0001 through 0x9999.

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# PSTRK_L2

## 1. Description

Level 2 and loopback parameters for X.75', X.75 and IP trunks.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 480 |
| expected tuples in relation | 3 |
| density | 4 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| l1 length of subkey1 | 3 |
| p1 position of subkey1 | 8 |
| l2 length of subkey2 | 8 |
| p2 position of subkey2 | 0 |
| l3 length of subkey3 | 5 |
| p3 position of subkey3 | 11 |
| ks key store | AUTO |
| trigger function | TMpstrk_l2 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
PSTRK_L2    relid = 1117  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     port        DMPORT       (ushort)  <--- key, not stored
     linkid      DMUCHAR      (uchar)
     lapbt1      DMLAPBT1     (uchar: 8)
     lapbt3      DMLAPBT3     (uchar: 5)
     lapbk       DMLAPBK      (uchar: 3)
     lapbn2      DMLAPBN2     (uchar: 4)
  (a) lapbA      DMBOOL       (enum: 1)
  (b) ocu_test   DMBOOL       (enum: 1)
  (c) csu_test   DMBOOL       (enum: 1)
         User and Compacted Tuple Layout   PSTRK_L2
     |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
     |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
     |---------------+---------------+---------------+---------------|
     |                               |                               |
   0 |               port            |*******************************|
     |---------------+---------------+---------------+---------------|
     |                |               |         |     |       | | | | |
   4 |     linkid     |     lapbt1    |  lapbt3 |lapbk| lapbn2|a|b|c|*|
     |---------------+---------------+---------------+---------------|
        ( 8 bytes )
     linkid      DMUCHAR      (uchar)
     lapbt1      DMLAPBT1     (uchar: 8)
     lapbt3      DMLAPBT3     (uchar: 5)
     lapbk       DMLAPBK      (uchar: 3)
     lapbn2      DMLAPBN2     (uchar: 4)
  (a) lapbA      DMBOOL       (enum: 1)
  (b) ocu_test   DMBOOL       (enum: 1)
```

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```
(c) csu_test    DMBOOL       (enum: 1)
          Stored Tuple Layout     PSTRK_L2
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |               |         |     |       | | | | |
 0 |     linkid    |     lapbt1    |  lapbt3 |lapbk| lapbn2|a|b|c|*|
   |---------------+---------------+---------------+---------------|
      ( 4 bytes )
```

## 4. Population Rules for RLpstrk_l2

**Relation Description**
Level 2 and Loop-back

Testing parameters for Packet Switching trunks (X.75, X.75', IP) and T1 or DS1 facility (XAT) ports. This relation contains parameters used by level 2 and terminal maintenance for X.75', X.75, and internal protocol (IP) trunks, and X.25 packet switching on a T1 or DS1 facility (XAT) ports.

**Attribute: port**

**Fullname:** Port name

**Attribute Description** DLTU or DNU-S port name (channel circuit name) of the X.75' trunk, X.75 trunk, IP trunk, or XAT port.

**Attribute: lapbA**

**Fullname:** A/B link address

**Attribute Description** A/B link address value used by level 2 for a given X.75', X.75, or IP trunk member. This attribute not used by XAT ports. DBYES if link address = A, DBNO if link address = B.

**Attribute: linkid**

**Fullname:** Gateway Link ID

**Attribute Description** Gateway link ID used for X.75'/X.75 PVCs

**Attribute: lapbk**

**Fullname:** LAPB Window Size (k)

**Attribute Description** Number of unacknowledged frames allowed by LAPB level 2 protocol. For X.25 access on a T1 or DS1 (XAT) port, populate with window value entered on the (X.25 packet switching channel assignment) view. Range of values:

```
2 to 7 for IP, X.75, and X.75' trunks
1 to 7 for XAT ports
```

**Attribute: lapbn2**

**Fullname:** LAPB number of retransmissions allowed (n2)

**Attribute Description** Number of retransmissions allowed of a given frame For X.25 access on a T1 or DS1 (XAT) port, populate with N2 value entered on the (X.25 packet switching channel

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assignment) view.

**Attribute: lapbt1**

**Fullname:** LAPB time allowed for acknowledgements

**Attribute Description** Time allowed to receive acknowledgement for a given frame (in TENTHS of a SECOND). Even values only are permitted. For X.25 access on a T1 or DS1 (XAT) ports, populate with T1 value entered on the (X.25 packet switching channel assignment) view.

**Attribute: lapbt3**

**Fullname:** LAPB Idle line time

**Attribute Description** Time allowed until next valid (flag) frame is received (IN SECONDS). For X.25 access on a T1 or DS1 (XAT) port, populate with T3 value entered via RC/ODA.

**Attribute: ocu_test**

**Fullname:** OCU loopback testing allowed flag

**Attribute Description** Office channel unit (OCU) digital loopback testing allowed for the X.75' trunk, X.75 trunk, IP trunk, or XAT port. For XAT ports, populate with OCU LOOPBACK value entered via RCV/ODA.

**Attribute: csu_test**

**Fullname:** CSU loopback testing allowed flag

**Attribute Description** Channel service unit (CSU) digital loopback testing allowed for this X.75' trunk, X.75 trunk, IP trunk, or XAT port. For X.25 access on a T1 or DS1 (XAT) port, populate with CSU LOOPBACK value entered via RCV/ODA.

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# PSTRUNKS

## 1. Description

Packet switching trunk group information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 25 |
| expected tuples in relation | 2 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | TMpstrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
PSTRUNKS    relid = 830   DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL
     grpnum       DMGRUPNM     (ushort: 11)  <--- key
 (a) tkg_type     DMTKG_TYPE   (enum: 2)
     npsn         DMUCHAR      (uchar)
     size         DMUNS6       (ushort: 6)
     pair1        DMPSPAIR     (struct)
 (b)     assign1      DMBOOL       (enum: 1)
         ph1          DMPHNBR      (uchar: 7)
         chan1        DMPHCN       (uchar: 7)
 (c)     assign2      DMBOOL       (enum: 1)
         ph2          DMPHNBR      (uchar: 7)
         chan2        DMPHCN       (uchar: 7)
     pair2        DMPSPAIR     (struct)
 (d)     assign1      DMBOOL       (enum: 1)
         ph1          DMPHNBR      (uchar: 7)
         chan1        DMPHCN       (uchar: 7)
 (e)     assign2      DMBOOL       (enum: 1)
         ph2          DMPHNBR      (uchar: 7)
         chan2        DMPHCN       (uchar: 7)
     pair3        DMPSPAIR     (struct)
 (f)     assign1      DMBOOL       (enum: 1)
         ph1          DMPHNBR      (uchar: 7)
         chan1        DMPHCN       (uchar: 7)
 (g)     assign2      DMBOOL       (enum: 1)
         ph2          DMPHNBR      (uchar: 7)
         chan2        DMPHCN       (uchar: 7)
     pair4        DMPSPAIR     (struct)
 (h)     assign1      DMBOOL       (enum: 1)
         ph1          DMPHNBR      (uchar: 7)
         chan1        DMPHCN       (uchar: 7)
 (i)     assign2      DMBOOL       (enum: 1)
         ph2          DMPHNBR      (uchar: 7)
         chan2        DMPHCN       (uchar: 7)
     pair5        DMPSPAIR     (struct)
```

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```
(j)     assign1     DMBOOL       (enum: 1)
        ph1         DMPHNBR      (uchar: 7)
        chan1       DMPHCN       (uchar: 7)
(k)     assign2     DMBOOL       (enum: 1)
        ph2         DMPHNBR      (uchar: 7)
        chan2       DMPHCN       (uchar: 7)
    pair6       DMPSPAIR     (struct)
(l)     assign1     DMBOOL       (enum: 1)
        ph1         DMPHNBR      (uchar: 7)
        chan1       DMPHCN       (uchar: 7)
(m)     assign2     DMBOOL       (enum: 1)
        ph2         DMPHNBR      (uchar: 7)
        chan2       DMPHCN       (uchar: 7)
    pair7       DMPSPAIR     (struct)
(n)     assign1     DMBOOL       (enum: 1)
        ph1         DMPHNBR      (uchar: 7)
        chan1       DMPHCN       (uchar: 7)
(o)     assign2     DMBOOL       (enum: 1)
        ph2         DMPHNBR      (uchar: 7)
        chan2       DMPHCN       (uchar: 7)
    pair8       DMPSPAIR     (struct)
(p)     assign1     DMBOOL       (enum: 1)
        ph1         DMPHNBR      (uchar: 7)
        chan1       DMPHCN       (uchar: 7)
(q)     assign2     DMBOOL       (enum: 1)
        ph2         DMPHNBR      (uchar: 7)
        chan2       DMPHCN       (uchar: 7)
    pair9       DMPSPAIR     (struct)
(r)     assign1     DMBOOL       (enum: 1)
        ph1         DMPHNBR      (uchar: 7)
        chan1       DMPHCN       (uchar: 7)
(s)     assign2     DMBOOL       (enum: 1)
        ph2         DMPHNBR      (uchar: 7)
        chan2       DMPHCN       (uchar: 7)
    pair10      DMPSPAIR     (struct)
(t)     assign1     DMBOOL       (enum: 1)
        ph1         DMPHNBR      (uchar: 7)
        chan1       DMPHCN       (uchar: 7)
(u)     assign2     DMBOOL       (enum: 1)
        ph2         DMPHNBR      (uchar: 7)
        chan2       DMPHCN       (uchar: 7)
    pair11      DMPSPAIR     (struct)
(v)     assign1     DMBOOL       (enum: 1)
        ph1         DMPHNBR      (uchar: 7)
        chan1       DMPHCN       (uchar: 7)
(w)     assign2     DMBOOL       (enum: 1)
        ph2         DMPHNBR      (uchar: 7)
        chan2       DMPHCN       (uchar: 7)
    pair12      DMPSPAIR     (struct)
(x)     assign1     DMBOOL       (enum: 1)
        ph1         DMPHNBR      (uchar: 7)
        chan1       DMPHCN       (uchar: 7)
(y)     assign2     DMBOOL       (enum: 1)
        ph2         DMPHNBR      (uchar: 7)
```

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```
        chan2       DMPHCN       (uchar: 7)
    pair13      DMPSPAIR     (struct)
(z)     assign1     DMBOOL       (enum: 1)
        ph1         DMPHNBR      (uchar: 7)
        chan1       DMPHCN       (uchar: 7)
(A)     assign2     DMBOOL       (enum: 1)
        ph2         DMPHNBR      (uchar: 7)
        chan2       DMPHCN       (uchar: 7)
    pair14      DMPSPAIR     (struct)
(B)     assign1     DMBOOL       (enum: 1)
        ph1         DMPHNBR      (uchar: 7)
        chan1       DMPHCN       (uchar: 7)
(C)     assign2     DMBOOL       (enum: 1)
        ph2         DMPHNBR      (uchar: 7)
        chan2       DMPHCN       (uchar: 7)
    pair15      DMPSPAIR     (struct)
(D)     assign1     DMBOOL       (enum: 1)
        ph1         DMPHNBR      (uchar: 7)
        chan1       DMPHCN       (uchar: 7)
(E)     assign2     DMBOOL       (enum: 1)
        ph2         DMPHNBR      (uchar: 7)
        chan2       DMPHCN       (uchar: 7)
    pair16      DMPSPAIR     (struct)
(F)     assign1     DMBOOL       (enum: 1)
        ph1         DMPHNBR      (uchar: 7)
        chan1       DMPHCN       (uchar: 7)
(G)     assign2     DMBOOL       (enum: 1)
        ph2         DMPHNBR      (uchar: 7)
        chan2       DMPHCN       (uchar: 7)
        User, Compacted and Stored Tuple Layout   PSTRUNKS
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                     |   |     |               |           |   |
 0 |        grpnum       | a |*****|      npsn     |    size   |***|
   |===============+============ pair1 ============+===============|
   | |             |             | |             | |             | |
 4 |b|     ph1     |    chan1    |c|     ph2     |*|    chan2    |*|
   |===============+============ pair2 ============+===============|
   | |             |             | |             | |             | |
 8 |d|     ph1     |    chan1    |e|     ph2     |*|    chan2    |*|
   |===============+============ pair3 ============+===============|
   | |             |             | |             | |             | |
12 |f|     ph1     |    chan1    |g|     ph2     |*|    chan2    |*|
   |===============+============ pair4 ============+===============|
   | |             |             | |             | |             | |
16 |h|     ph1     |    chan1    |i|     ph2     |*|    chan2    |*|
   |===============+============ pair5 ============+===============|
   | |             |             | |             | |             | |
20 |j|     ph1     |    chan1    |k|     ph2     |*|    chan2    |*|
   |===============+============ pair6 ============+===============|
   | |             |             | |             | |             | |
24 |l|     ph1     |    chan1    |m|     ph2     |*|    chan2    |*|
   |===============+============ pair7 ============+===============|
```

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```
    | |             |             | |             | |             | |
 28 |n|     ph1     |    chan1    |o|     ph2     |*|    chan2    |*|
    |===============+============ pair8 ============+===============|
    | |             |             | |             | |             | |
 32 |p|     ph1     |    chan1    |q|     ph2     |*|    chan2    |*|
    |===============+============ pair9 ============+===============|
    | |             |             | |             | |             | |
 36 |r|     ph1     |    chan1    |s|     ph2     |*|    chan2    |*|
    |===============+===========  pair10 ===========+===============|
    | |             |             | |             | |             | |
 40 |t|     ph1     |    chan1    |u|     ph2     |*|    chan2    |*|
    |===============+===========  pair11 ===========+===============|
    | |             |             | |             | |             | |
 44 |v|     ph1     |    chan1    |w|     ph2     |*|    chan2    |*|
    |===============+===========  pair12 ===========+===============|
    | |             |             | |             | |             | |
 48 |x|     ph1     |    chan1    |y|     ph2     |*|    chan2    |*|
    |===============+===========  pair13 ===========+===============|
    | |             |             | |             | |             | |
 52 |z|     ph1     |    chan1    |A|     ph2     |*|    chan2    |*|
    |===============+===========  pair14 ===========+===============|
    | |             |             | |             | |             | |
 56 |B|     ph1     |    chan1    |C|     ph2     |*|    chan2    |*|
    |===============+===========  pair15 ===========+===============|
    | |             |             | |             | |             | |
 60 |D|     ph1     |    chan1    |E|     ph2     |*|    chan2    |*|
    |===============+===========  pair16 ===========+===============|
    | |             |             | |             | |             | |
 64 |F|     ph1     |    chan1    |G|     ph2     |*|    chan2    |*|
    |===============+===============+===============+===============|
      ( 68 bytes )
domain alPSTRUNKS   struct  (5 sub-attributes)
        grpnum      .6.fake      (ushort: 11)
 (a)    tkg_type    .2fake       (enum)
        npsn        unsigned char (uchar)
        size        .7.fake      (ushort: 6)
        member      .8.fake      (array [ 16 ] of .1fake )
 (b)        assign1     .0fake       (enum)
            ph1         .0.fake      (uchar: 7)
            chan1       .1.fake      (uchar: 7)
 (c)        assign2     .0fake       (enum)
            ph2         .2.fake      (uchar: 7)
            chan2       .3.fake      (uchar: 7)
        Structure Layout      alPSTRUNKS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |   |     |               |           |   |
  0 |        grpnum         | a |*****|      npsn     |    size   |***|
    |===============+========== member[0] ==========+===============|
    | |             |             | |             | |             | |
  4 |b|     ph1     |    chan1    |c|     ph2     |*|    chan2    |*|
    |===============+========== member[1] ==========+===============|
    | |             |             | |             | |             | |
```

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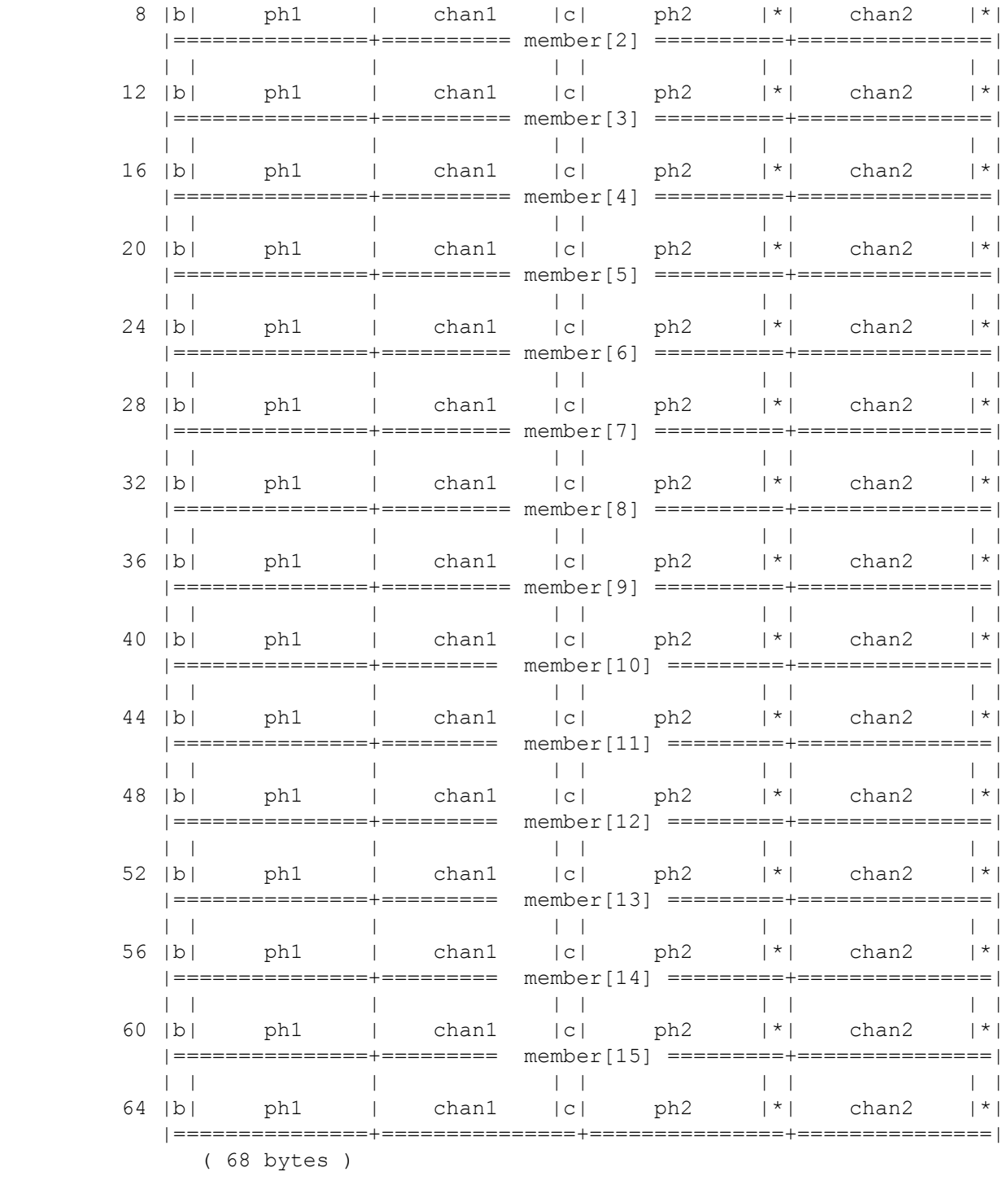


## 4. Population Rules for RLpstrunks

**Relation Description**
Packet switching trunk group information.

This relation provides information about packet switching trunk groups. This relation should be populated only for the packet switching trunks. The htype attribute in the RLrt_trkg tuple is set to RTH_PSUCD for the packet switching trunk group. If the number of trunk members in a trunk group is less than the maximum, then the trunk

members should be populated without leaving any HOLES between any two consecutive trunk members. In other words, all the trunk members should be populated contiguously. The trunk group must be defined in the loaded ISDN SM which has the PSU hardware. The relation also defines how many members are assigned and it further defines the protocol handler (PH) number and the Channel number for each member. An office can have a maximum of 16 internal protocol (IP) trunk groups. Each IP trunk group can have a maximum of 32 trunk members. An IP trunk group cannot be split across the SMs. All the trunk members in an IP trunk group must physically exist on the same SM. An office can have a maximum of 255 X.75' trunk groups. A given SM may have up to 25 X.75' trunk groups with each X.75' trunk group having a maximum of 24 trunk members. X.75' trunk group members may reside on different SMs (for example, there could be 24 SMs each with a single X.75' trunk); however, all the trunk members in a X.75' trunk group can be split among non-remoted SMs and can not be split between RSMs, ORMs or TRMs, that is, if any RSM, ORM or TRM contains X.75' trunk members it must contain the whole group. An office can have a maximum of 255 X.75 trunk groups. A given SM may have up to 25 X.75 trunk groups with each X.75 trunk group having a maximum of 24 trunk members. Members may reside on different SMs as stated for X.75' previously. The combined number of Packet trunk groups allowed on a given Loaded SM is 25. These groups may consist of any valid combination of Packet trunk groups (IP, X.75' and X.75) as described previously. For example, an SM could have 7 IP, 1 X.75' and 17 X.75 groups or an SM could have 16 IP and 9 X.75, etc. The following rules apply for internal protocol (IP) trunks:

(1) Service class of the IP trunk group must be PSPKT_TRK in fc_porttyp relation.

(2) There will be a maximum of 16 IP trunk groups for each *5ESS*®-2000 switch.

(3) Each IP trunk group will have a maximum of 32 trunk members.

(4) All IP trunks in a trunk group will terminate on the same SM.

(5) Only one trunk member will terminate on a PH2.

(6) From 1 to 6 trunk members may terminate on a PH3 or PH4 as long as all of the trunk members are IP trunk members.

(7) The trunk group is 2_way.

The following rules apply for X.75' trunks:

(1) There can be 255 X.75' trunk groups (per office) with a maximum of 24 trunk members per group.

(2) There is a limit of 25 X.75' trunk groups on a given SM.

(3) The trunk group is a 2-way T1 facility.

(4) Only one trunk member will terminate on a PH2.

(5) From 1 to 6 trunk members may terminate on a PH3 or PH4 as long as all of the trunk members are X.75' trunk members and all trunk member ports terminate in the same SM. It is recommended that only 4 trunk members are put on a given PH3 or PH4.

(6) The service class of each member in fc_porttyp is PSX75P_TK.

(7) X.75' trunk members can reside on different SMs.

(8) All the trunk members in a X.75' trunk group can be split among non-remoted SMs and can not be split between RSMs, ORMs or TRMs, that is, if any RSM, ORM or TRM contains X.75' trunk members it must contain the whole group.

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The following rules apply for X.75 trunks:

(1) There can be 255 X.75 trunk groups (per office) with a maximum of 24 trunk members each.

(2) There is a limit of 25 X.75 trunk groups on a given SM.

(3) The trunk group is 2_way.

(4) Only one trunk member will terminate on a PH2.

(5) From 1 to 6 trunk members may terminate on a PH3 or PH4 as long as all of the trunk members are X.75 trunk members and all trunk member ports terminate in the same SM. It is recommended that only 4 trunk members are put on a given PH3 or PH4.

(6) The service class of each member in fc_porttyp is PSX75_TK.

(7) All the trunk members in a X.75 trunk group can be split among non-remoted SMs and can not be split between RSMs, ORMs or TRMs, that is, if any RSM, ORM or TRM contains X.75 trunk members it must contain the whole group.

The total combined number of packet trunks (IP, X.75, X.75') on any given Loaded SM is 25. This may consist of any number of types following the previous limits for the three types.

**Attribute: grpnum**

**Fullname:** Trunk group number

**Attribute Description** Packet switching trunk group number. The key for this relation is the same as that of RLrt_trkg. There should be a tuple in this relation only if the htype attribute in the RLrt_trkg tuple is set to RTH_PSUCD. Since X.75/X.75' packet trunk groups are limited to 24 members and IP trunk groups are limited to 32 members, RLrt_trkg.htype must never equal RTH_PSLGUCD.

**Attribute: tkg_type**

**Fullname:** Trunk group type

**Attribute Description** Indicates which type of trunk group this is:

```
tkg_type = X75P for an X.75' trunk group
tkg_type = IP for an IP trunk group
tkg_type = X75 for X.75 trunks.
```

**Attribute: npsn**

**Fullname:** Next packet switch number.

**Attribute Description** Next Packet Switch Number. 'npsn' contains the packet switch number of the packet switch that is connected to the present packet switch by the IP trunk group identified in the key attribute 'grpnum'. The following rules apply:

(1) If RLpstrunks.tkg_type equals IP then RLpstrunks.npsn must_not equal Glpsn and RLpstrunks.npsn and Glpsn must_not equal 0.

(2) If RLpstrunks.tkg_type equals X75 or X75P then RLpstrunks.npsn must_equal 0.

(3) If RLpstrunks.npsn > 0 then exactly one tuple exists in the relation RLpsiptst such that

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RLpsiptst.npsn == RLpstrunks.npsn

**Attribute: size**

**Fullname:** Number of trunks in a trunk group.

**Attribute Description** Total number of trunks assigned to this trunk group that physically reside on the present SM. If there are no trunks assigned to a trunk group, then an RLpstrunks tuple does not exist.

```
The range of values for IP trunk group members is 1 - 32.
The range of values for X.75' trunk group members is 1 - 24.
The range of values for X.75 trunk group members is 1-24.
For IP trunk groups (tkg_type == IP) the following rules apply:
There exists a tuple in RLpsiptst such that:
1. RLpsiptst.npsn == RLpstrunks.npsn and
2. RLpsiptst.size == RLpstrunks.size
There exists a tuple in RLrt_trkg such that:
1. RLrt_trkg.grpnum == RLpstrunks.grpnum
2. RLrt_trkg.act_size == RLpstrunks.size
```

**Attribute: pair[*]**

**Fullname:** Nth Pair of trunk members in the group.

**Attribute Description** This is a structure consisting of two members: member number 1 and member number 2. For X.75 trunk groups, the 'pair' attributes are only populated for those trunk members residing on that SM.

**Attribute: pair[*].assign1**

**Fullname:** Assignment of first member of the pair.

**Attribute Description** Indicates whether the first member of the pair is assigned or not.

**Attribute: pair[*].ph1**

**Fullname:** PH number of the first member in the pair.

**Attribute Description** PH number of the first member in the pair.

**Attribute: pair[*].chan1**

**Fullname:** Channel number of the first member in the pair.

**Attribute Description** Channel number of the first member in the pair. If the port is an IP, X.75 or X.75' trunk and the PH is of type PH2 then the channel number must be 0 If the port is an IP, X.75 or X.75' trunk and the PH is of type PH3 or PH4 then channel number may be (0,4,8...20) in even multiples of four as long as all members on a given PH3 or PH4 are of the same trunk level 2 profile and all of the ports are equipped on the same SM. It is recommended that a maximum of 4 X.75' or X.75 trunk members be assigned to a given PH3 or PH4.

HARDWARE CONVERSION NOTE:
If the PH3 ior PH4 s to be converted to a PH2 only 1 member may be assigned to the PH3 or PH4 and the 'ph_cn' attribute must equal 0 otherwise the conversion will be blocked!

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**Attribute: pair[*].assign2**

**Fullname:** Second member in the pair assignment.

**Attribute Description** Indicates whether the second member in the pair is assigned or not.

**Attribute: pair[*].ph2**

**Fullname:** PH number of the second member in the pair.

**Attribute Description** PH number of the second member in the pair.

**Attribute: pair[*].chan2**

**Fullname:** Channel number of the second member in the pair.
If the port is an IP, X.75 or X.75' trunk and the PH is of type PH2 then the channel number must be 0.

If the port is an IP, X.75 or X.75' trunk and the PH is of type PH3 or PH4 then channel number may be (0,4,8...20) in even multiples of four as long as all members on a given PH3 or PH4 are of the same trunk level 2 profile and all of the ports are equipped on the same SM. It is recommended that a maximum of 4 X.75' or X.75 trunk members be assigned to a given PH3 or PH4.

HARDWARE CONVERSION NOTE:
If the PH3 or PH4 is to be converted to a PH2 only 1 member may be assigned to the PH3 or PH4 and the 'ph_cn' attribute must equal 0 otherwise the conversion will be blocked!

**Attribute Description** Channel number of the second member in the pair.

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# PSTSNC_CNT

## 1. Description

Packet Switching Transit Sub-Network Count (PSTSNC_CNT).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| expected tuples in relation | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| density | 100 |
| trigger function | RTrctsnc_cnt |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
PSTSNC_CNT  relid = 1794  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
 (a) tsnc_cnt    DMUNS4       (ushort: 4)
 (b) ofc_id      DMUNS1       (ushort: 1)     <--- key
        User and Compacted Tuple Layout PSTSNC_CNT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |       | |                                                     |
 0 |   a   |b|*****************************************************|
   |---------------+---------------+---------------+---------------|
      ( 4 bytes )
 (a) tsnc_cnt    DMUNS4       (ushort: 4)
 (b) ofc_id      DMUNS1       (ushort: 1)     <--- key
          Stored Tuple Layout   PSTSNC_CNT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |       | |                                                     |
 0 |   a   |b|*****************************************************|
   |---------------+---------------+---------------+---------------|
      ( 2 bytes )
```

## 4. Population Rules for RLpstsnc_cnt

**Relation Description**
Transit Sub-Network Count

This relation stores the X.75' Trunk Transit Sub-Network Count value (TSNC). The valid values for the count are 0-14. The relation is used instead of a global parameter to allow Static Data Transport to update the PH Global Data PStsnc_cnt whenever the count in this relation changes. The relation is only applicable for X.75' packet trunks. See the attribute usage sections for more information.

**Attribute: ofc_id**

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**Fullname:** Office Identification Number

**Attribute Description** The Office ID Number should always be populated with the value 0.

**Attribute: tsnc_cnt**

**Fullname:** Transit Sub-Network Count number

**Attribute Description** This attribute may be populated with any value in the range of 0-14. This is the threshold value of the Transit Sub- Network Count for the entire switch and is used to detect invalid looping among the subnetworks within the LATA. The relation is populated in all ISDN SMs to allow for Static Data Transport to update the PH global data PStsnc_cnt whenever the provisioned value is changed via RC/V view 8.1. The default value is zero.

***NOTE:*** It is the service provider's responsibility to ensure that the same value is provisioned for this attribute / parameter across the subnetwork.

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# PSU_TRKG

## 1. Description

This relation provides the mapping from PSU Community Address (CA) to a list of Speech Handler (SH) trunk groups along with its servtype.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 255 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFP |
| relation type | DBSTATIC |
| trigger function | SMt_psu_trkg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
PSU_TRKG    relid = 2149  DBSTATIC   DBACC_CIND  DBPRAM    LRFP    NULL
     psu_ca       DMPSUCA       (uchar)     <--- key
 (a) servtype     DMSRV_TYP     (enum: 3)     <--- key
     sh_trkg0     DMSH_TRKG     (struct)
         grpnum       DMGRPNUM      (ushort)
 (b)     servtype     DMSRV_TYP     (enum: 3)
     sh_trkg1     DMSH_TRKG     (struct)
         grpnum       DMGRPNUM      (ushort)
 (c)     servtype     DMSRV_TYP     (enum: 3)
     sh_trkg2     DMSH_TRKG     (struct)
         grpnum       DMGRPNUM      (ushort)
 (d)     servtype     DMSRV_TYP     (enum: 3)
     sh_trkg3     DMSH_TRKG     (struct)
         grpnum       DMGRPNUM      (ushort)
 (e)     servtype     DMSRV_TYP     (enum: 3)
     sh_trkg4     DMSH_TRKG     (struct)
         grpnum       DMGRPNUM      (ushort)
 (f)     servtype     DMSRV_TYP     (enum: 3)
     sh_trkg5     DMSH_TRKG     (struct)
         grpnum       DMGRPNUM      (ushort)
 (g)     servtype     DMSRV_TYP     (enum: 3)
     sh_trkg6     DMSH_TRKG     (struct)
         grpnum       DMGRPNUM      (ushort)
 (h)     servtype     DMSRV_TYP     (enum: 3)
     sh_trkg7     DMSH_TRKG     (struct)
         grpnum       DMGRPNUM      (ushort)
 (i)     servtype     DMSRV_TYP     (enum: 3)
     sh_trkg8     DMSH_TRKG     (struct)
         grpnum       DMGRPNUM      (ushort)
 (j)     servtype     DMSRV_TYP     (enum: 3)
     sh_trkg9     DMSH_TRKG     (struct)
         grpnum       DMGRPNUM      (ushort)
 (k)     servtype     DMSRV_TYP     (enum: 3)
```

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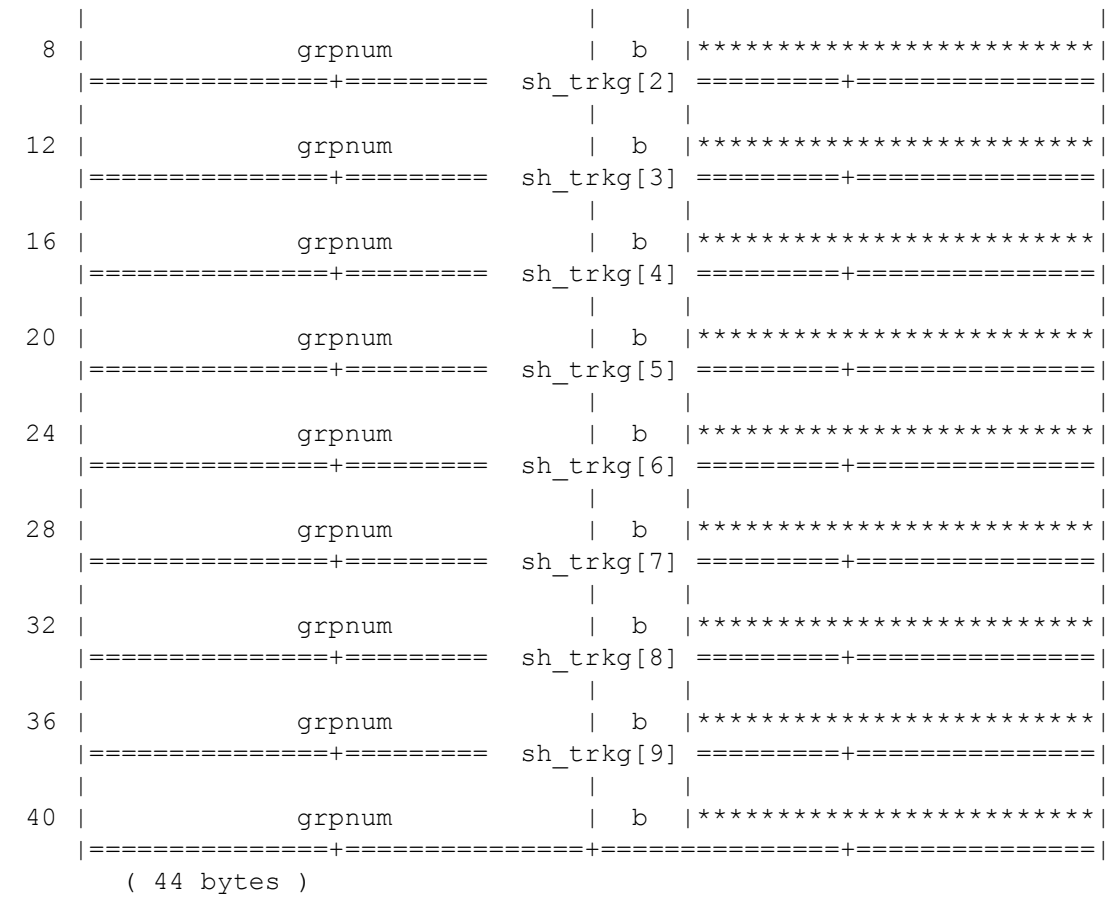
```
          User, Compacted and Stored Tuple Layout   PSU_TRKG
     |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
     |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
     |---------------+---------------+---------------+---------------|
     |               |     |                                         |
   0 |     psu_ca    |  a  |*****************************************|
     |===============+=========  sh_trkg0 =========+===============|
     |                               |     |                         |
   4 |             grpnum            |  b  |*************************|
     |===============+=========  sh_trkg1 =========+===============|
     |                               |     |                         |
   8 |             grpnum            |  c  |*************************|
     |===============+=========  sh_trkg2 =========+===============|
     |                               |     |                         |
  12 |             grpnum            |  d  |*************************|
     |===============+=========  sh_trkg3 =========+===============|
     |                               |     |                         |
  16 |             grpnum            |  e  |*************************|
     |===============+=========  sh_trkg4 =========+===============|
     |                               |     |                         |
  20 |             grpnum            |  f  |*************************|
     |===============+=========  sh_trkg5 =========+===============|
     |                               |     |                         |
  24 |             grpnum            |  g  |*************************|
     |===============+=========  sh_trkg6 =========+===============|
     |                               |     |                         |
  28 |             grpnum            |  h  |*************************|
     |===============+=========  sh_trkg7 =========+===============|
     |                               |     |                         |
  32 |             grpnum            |  i  |*************************|
     |===============+=========  sh_trkg8 =========+===============|
     |                               |     |                         |
  36 |             grpnum            |  j  |*************************|
     |===============+=========  sh_trkg9 =========+===============|
     |                               |     |                         |
  40 |             grpnum            |  k  |*************************|
     |===============+===============+===============+===============|
       ( 44 bytes )
domain alPSU_TRKG struct  (3 sub-attributes)
         psu_ca      unsigned char (uchar)
 (a)     servtype    .0fake       (enum)
         sh_trkg     .0.fake      (array [ 10 ] of .1fake )
             grpnum      unsigned short (ushort)
 (b)         servtype    .0fake       (enum)
         Structure Layout      alPSU_TRKG
     |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
     |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
     |---------------+---------------+---------------+---------------|
     |               |     |                                         |
   0 |     psu_ca    |  a  |*****************************************|
     |===============+=========  sh_trkg[0] =========+===============|
     |                               |     |                         |
   4 |             grpnum            |  b  |*************************|
     |===============+=========  sh_trkg[1] =========+===============|
```




## 4. Population Rules for RLpsu_trkg

**Relation Description**
Maps PSU Community Address to Speech Handler (SH) and Autoplex Data (ADT) trunk groups.

This relation provides the mapping from the PSU Community Address (CA) to a list of SH or ADT trunk groups along with their service type (speech, data, video, fax). Each tuple in this relation consists of an array of SH and ADT trunks for that PSU community address. This relation is engineered with array size of SH and ADT trunks, equal to 10, due to real time constraint imposed by RTA hunting.

**Attribute: psu_ca**

**Fullname:** PSU Community Address (key)

**Attribute Description** PSU Community Address, and this is used as an index in this relation.

**Attribute: servtype**

**Fullname:** Service Type of Trunk Group (key)

**Attribute Description** Service Tyupe of Trunk Group is used as a key to manage the increase number of service types.

**Attribute: sh_trkg[*].grpnum**

**Fullname:** SH and ADT trunk group

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**Attribute Description** This contains a SH or ADT trunk group number.

**Attribute: sh_trkg[*].servtype**

**Fullname:** Service type

**Attribute Description** This indicates the service type (voice, data, video, fax) associated with a SH or ADT trunk group.

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# PSULNK

## 1. Description

This relation defines a link between near PSU Community Address (CA) and far PSU CA to support point-to-point and ATM network configurations. A link constitutes two channels, and this relation provides the information on the circuit name and channel group for both the channels (active, and standby).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | SMt_psulnk |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
PSULNK      relid = 2161  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     link        DMPHALNK     (uchar: 4)     <--- key
     nearpsu_ca  DMPSUCA      (uchar)     <--- key
     cktname0    DMCIRCUIT    (ushort)
     cktname1    DMCIRCUIT    (ushort)
     chgrp0      DMPHNBR      (uchar: 7)
     chgrp1      DMPHNBR      (uchar: 7)
     farpsu_ca   DMPSUCA      (uchar)
 (a) far_type    DMFARTYPE    (enum: 1)
 (b) con0_type   DMPSUCON     (enum: 2)
 (c) con1_type   DMPSUCON     (enum: 2)
 (d) aps_type    DMAPSTYPE    (enum: 4)
 (e) sd_thresh   DMSD_THRES   (enum: 3)
 (f) sf_thresh   DMSD_THRES   (enum: 3)
        User, Compacted and Stored Tuple Layout PSULNK
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |       |       |               |                               |
 0 |  link |*******|   nearpsu_ca  |            cktname0           |
   |---------------+---------------+---------------+---------------|
   |                               |             | |             | |
 4 |            cktname1           |    chgrp0   |*|    chgrp1   |*|
   |---------------+---------------+---------------+---------------|
   |               | |   |   |     |       |     | |     |         |
 8 |   farpsu_ca   |a| b | c |*****|   d   |  e  |*|  f  |*********|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population Rules for RLpsulnk

### Relation Description

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PSU Link Definition Relation

This defines a link between near PSU community address and a far end PSU Community Address to support point-to-point configurations. A link constitutes two channels, and this relation provides the information on the circuit-name and channel group for both the channels (active, and standby).

**Attribute: link**

**Fullname:** Link Number

**Attribute Description** PHA link number. In simplex mode, it will have only one channel, while in duplex mode, a link will have two channels. Key attribute.

**Attribute: nearpsu_ca**

**Fullname:** Near End PSU Community Address

**Attribute Description** PSU community address of the originating PSU. Key attribute.

**Attribute: chgrp0**

**Fullname:** PHA channel Group for channel 0

**Attribute Description** Defines the PHA channel group for the channel 0 of PHA link.

**Attribute: chgrp1**

**Fullname:** PHA channel Group for channel 1.

**Attribute Description** Defines the PHA channel group for the channel 1 of PHA link.

**Attribute: cktname0**

**Fullname:** PHA Circuit Name for channel 0.

**Attribute Description** Defines the PHA Circuit Name for the channel 0 of PHA link.

**Attribute: cktname1**

**Fullname:** PHA Circuit Name for channel 1.

**Attribute Description** Defines the PHA Circuit Name for the channel 1 of PHA link.

**Attribute: farpsu_ca**

**Fullname:** Far end PSU Community Address

**Attribute Description** PSU community address of the destination PSU.

**Attribute: far_type**

**Fullname:** Far end type of a link.

**Attribute Description** This represents the far end of a link. Whether the far end is in this office or another office.

**Attribute: aps_type**

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**Fullname:** Automatic Protection Switch (APS) type.

**Attribute Description** This represents the automatic protection switch type on a per link basis.

**Attribute: con0_type**

**Fullname:** Connection type of link 0

**Attribute Description** This represents the connection type of PHA link 0.

**Attribute: con1_type**

**Fullname:** Connection type of link 1

**Attribute Description** This represents the connection type of PHA link 1.

**Attribute: sd_thresh**

**Fullname:** Signal Degrade (SD) threshold.

**Attribute Description** This represents the "Signal Degrade" bit-error-rate threshold.

**Attribute: sf_thresh**

**Fullname:** Signal Fail (SF) threshold

**Attribute Description** This represents the "Signal Fail" bit-error-rate threshold.

**Defines:**
"db/DMcircuit.h",
"db/DMfartype.h",
"db/DMapstype.h",
"db/DMsd_thres.h",
"db/DMphnbr.h"

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# PSUSM

## 1. Description

This relation provides the mapping from a PSU community address (CA) to a SM and PSU.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 192 |
| expected tuples in relation | 64 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFP |
| relation type | DBSTATIC |
| ks keystore | AUTO |

## 3. Field Layout

```
PSUSM       relid = 2166  DBSTATIC   DBACC_CIND  DBPRAM    LRFP    NULL
     psu_ca       DMPSUCA       (uchar)  <--- key, not stored
     sm           DMMODULE      (ushort: 8)
 (a) psu          DMUNS1        (ushort: 1)
         User and Compacted Tuple Layout  PSUSM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                |                                               |
  0 |     psu_ca     |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                | |                                             |
  4 |       sm       |a|*********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     sm           DMMODULE      (ushort: 8)
 (a) psu          DMUNS1        (ushort: 1)
           Stored Tuple Layout    PSUSM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                | |                                             |
  0 |       sm       |a|*********************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLpsusm

**Relation Description**
PSU Community Address to PSU and SM

This maps PSU CA to a switching module (SM) number and a PSU number. This is an inverse relation to RLsmpsu.

**Attribute: psu_ca**

**Fullname:** PSU Community Address.

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**Attribute Description** PSU Community Address of a PSU.

**Attribute: psu**

**Fullname:** Peripheral Switching Unit.

**Attribute Description** Peripheral Switching Unit defined in a SM.

**Attribute: sm**

**Fullname:** Switching Module number.

**Attribute Description** Indicates the SM number on which this PSU CA is defined.

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# PSX25LN

## 1. Description

This relation defines x.25 level 3 data for a DSL D/B channel. This relation must be populated before psmappvc and pspvcinfo relations.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 16031 |
| expected tuples in relation | 90 |
| density | 70 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | RTrcx25ln |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
PSX25LN     relid = 816   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL


    lport       DMLPORT      (ushort: 16)
    iecp_dnic   DMPSDNIC     (ushort)
    pmdr_grp    DMFACID      (ushort)
    screen_x    DMSCRNIDX    (ushort: 12)
(a) send_thruputcl  DMPSTHRUPT   (enum: 4)
    busy_lim    DMMLHG_LCN   (ushort: 9)
    ph_cn       DMPHCN       (uchar: 7)        <--- key
    caseindex   DMCASEMAX    (ushort: 9)
    ph_number   DMPHNBR      (uchar: 7)        <--- key
    cug_pi_idx  DMPSCTCUGX   (uchar)
    cug_hindx   DMPSCTCUGX   (uchar)
    snd_mct     DMUCHAR      (uchar)
    rcv_mct     DMUCHAR      (uchar)
    pvc_h_lcn   DMPS_LCN     (uchar: 7)
(b) fst_select  DMBOOL       (enum: 1)
    l_lcn_in    DMPS_LCN     (uchar: 7)
(c) cug_oaflg   DMBOOL       (enum: 1)
    h_lcn_in    DMPS_LCN     (uchar: 7)
(d) cug_iaflg   DMBOOL       (enum: 1)
    l_lcn_2w    DMPS_LCN     (uchar: 7)
(e) mhgflg      DMBOOL       (enum: 1)
    h_lcn_2w    DMPS_LCN     (uchar: 7)
(f) flow_cntl   DMBOOL       (enum: 1)
    l_lcn_out   DMPS_LCN     (uchar: 7)
(g) throughput  DMBOOL       (enum: 1)
    h_lcn_out   DMPS_LCN     (uchar: 7)
    psbgrp      DMPSBGRP     (ushort: 7)
(h) lpt_type    DMLPT_TYPE   (enum: 2)
    digtree     DMDA_TREE    (ushort: 7)
(i) rvrs_chrg   DMBOOL       (enum: 1)
```

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```
(j) rcv_thruputcl  DMPSTHRUPT   (enum: 4)
(k) rcv_pktsz    DMPS_PKTSZ    (enum: 4)
(l) send_pktsz   DMPS_PKTSZ    (enum: 4)
    party        DMPARTY       (ushort: 4)       <--- key
(m) rcv_wndwsz   DMPS_WDWSZ    (enum: 3)
(n) send_wndwsz   DMPS_WDWSZ    (enum: 3)
(o) hnt_nfy      DMCLAMN       (enum: 2)
(p) oc_barred    DMBOOL        (enum: 1)
(q) ic_barred    DMBOOL        (enum: 1)
(r) intercom     DMBOOL        (enum: 1)
(s) intercept    DMBOOL        (enum: 1)
(t) billdn_flg   DMBOOL        (enum: 1)
(u) ccitt_ver    DMCCITTV      (enum: 1)
(v) call_tn      DMBOOL        (enum: 1)
(w) call_id      DMBOOL        (enum: 1)
(x) dis_scr      DMBOOL        (enum: 1)
(y) pmdr_act     DMBOOL        (enum: 1)
(z) l_chg_prev   DMBOOL        (enum: 1)
(A) notif_cls    DMPSNOTCLS    (enum: 1)
(B) chan_sel     DMBOOL        (enum: 1)
(C) ddn          DMBOOL        (enum: 1)
    dd_number    DMLOCDN       (struct)  <--- compacted
        noc          DMNOC         (ushort: 14)
        digits       DMLOCDIG      (array [ 4 ] of char )
           User Tuple Layout   PSX25LN
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             lport             |           iecp_dnic           |
   |---------------+---------------+---------------+---------------|
   |                               |                       |       |
 4 |            pmdr_grp           |        screen_x       |   a   |
   |---------------+---------------+---------------+---------------|
   |                 |             |                 |             |
 8 |     busy_lim    |    ph_cn    |    caseindex    |  ph_number  |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
12 |   cug_pi_idx  |   cug_hindx   |    snd_mct    |    rcv_mct    |
   |---------------+---------------+---------------+---------------|
   |             | |             | |             | |             | |
16 |  pvc_h_lcn  |b|   l_lcn_in  |c|   h_lcn_in  |d|   l_lcn_2w  |e|
   |---------------+---------------+---------------+---------------|
   |             | |             | |             |             |   |
20 |   h_lcn_2w  |f|  l_lcn_out  |g|  h_lcn_out  |    psbgrp   | h |
   |---------------+---------------+---------------+---------------|
   |             | |       |       |       |       |     |     |   |
24 |   digtree   |i|   j   |   k   |   l   | party |  m  |  n  | o |
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | |                               |
28 |p|q|r|s|t|u|v|w|x|y|z|A|B|C|*******************************|
   |===============+========== dd_number ==========+===============|
   |   |                           |                               |
32 |***|            noc            |             digits            |
```

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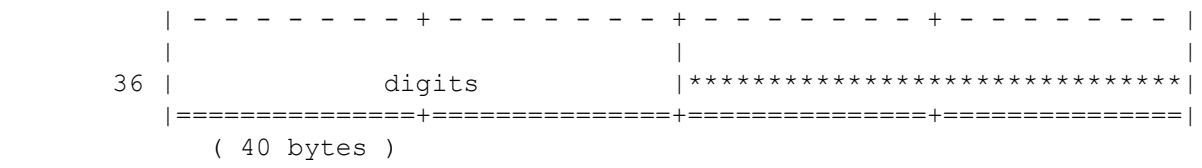


```
    lport       DMLPORT      (ushort: 16)
    iecp_dnic   DMPSDNIC     (ushort)
    pmdr_grp    DMFACID      (ushort)
    screen_x    DMSCRNIDX    (ushort: 12)
(a) send_thruputcl  DMPSTHRUPT   (enum: 4)
    busy_lim    DMMLHG_LCN   (ushort: 9)
    ph_cn       DMPHCN       (uchar: 7)        <--- key
    caseindex   DMCASEMAX    (ushort: 9)
    ph_number   DMPHNBR      (uchar: 7)        <--- key
    cug_pi_idx  DMPSCTCUGX   (uchar)
    cug_hindx   DMPSCTCUGX   (uchar)
    snd_mct     DMUCHAR      (uchar)
    rcv_mct     DMUCHAR      (uchar)
    pvc_h_lcn   DMPS_LCN     (uchar: 7)
(b) fst_select  DMBOOL       (enum: 1)
    l_lcn_in    DMPS_LCN     (uchar: 7)
(c) cug_oaflg   DMBOOL       (enum: 1)
    h_lcn_in    DMPS_LCN     (uchar: 7)
(d) cug_iaflg   DMBOOL       (enum: 1)
    l_lcn_2w    DMPS_LCN     (uchar: 7)
(e) mhgflg      DMBOOL       (enum: 1)
    h_lcn_2w    DMPS_LCN     (uchar: 7)
(f) flow_cntl   DMBOOL       (enum: 1)
    l_lcn_out   DMPS_LCN     (uchar: 7)
(g) throughput  DMBOOL       (enum: 1)
    h_lcn_out   DMPS_LCN     (uchar: 7)
    psbgrp      DMPSBGRP     (ushort: 7)
(h) lpt_type    DMLPT_TYPE   (enum: 2)
    digtree     DMDA_TREE    (ushort: 7)
(i) rvrs_chrg   DMBOOL       (enum: 1)
(j) rcv_thruputcl  DMPSTHRUPT   (enum: 4)
(k) rcv_pktsz   DMPS_PKTSZ   (enum: 4)
(l) send_pktsz  DMPS_PKTSZ   (enum: 4)
    party       DMPARTY      (ushort: 4)       <--- key
(m) rcv_wndwsz  DMPS_WDWSZ   (enum: 3)
(n) send_wndwsz  DMPS_WDWSZ   (enum: 3)
(o) hnt_nfy     DMCLAMN      (enum: 2)
(p) oc_barred   DMBOOL       (enum: 1)
(q) ic_barred   DMBOOL       (enum: 1)
(r) intercom    DMBOOL       (enum: 1)
(s) intercept   DMBOOL       (enum: 1)
(t) billdn_flg  DMBOOL       (enum: 1)
(u) ccitt_ver   DMCCITTV     (enum: 1)
(v) call_tn     DMBOOL       (enum: 1)
(w) call_id     DMBOOL       (enum: 1)
(x) dis_scr     DMBOOL       (enum: 1)
(y) pmdr_act    DMBOOL       (enum: 1)
```

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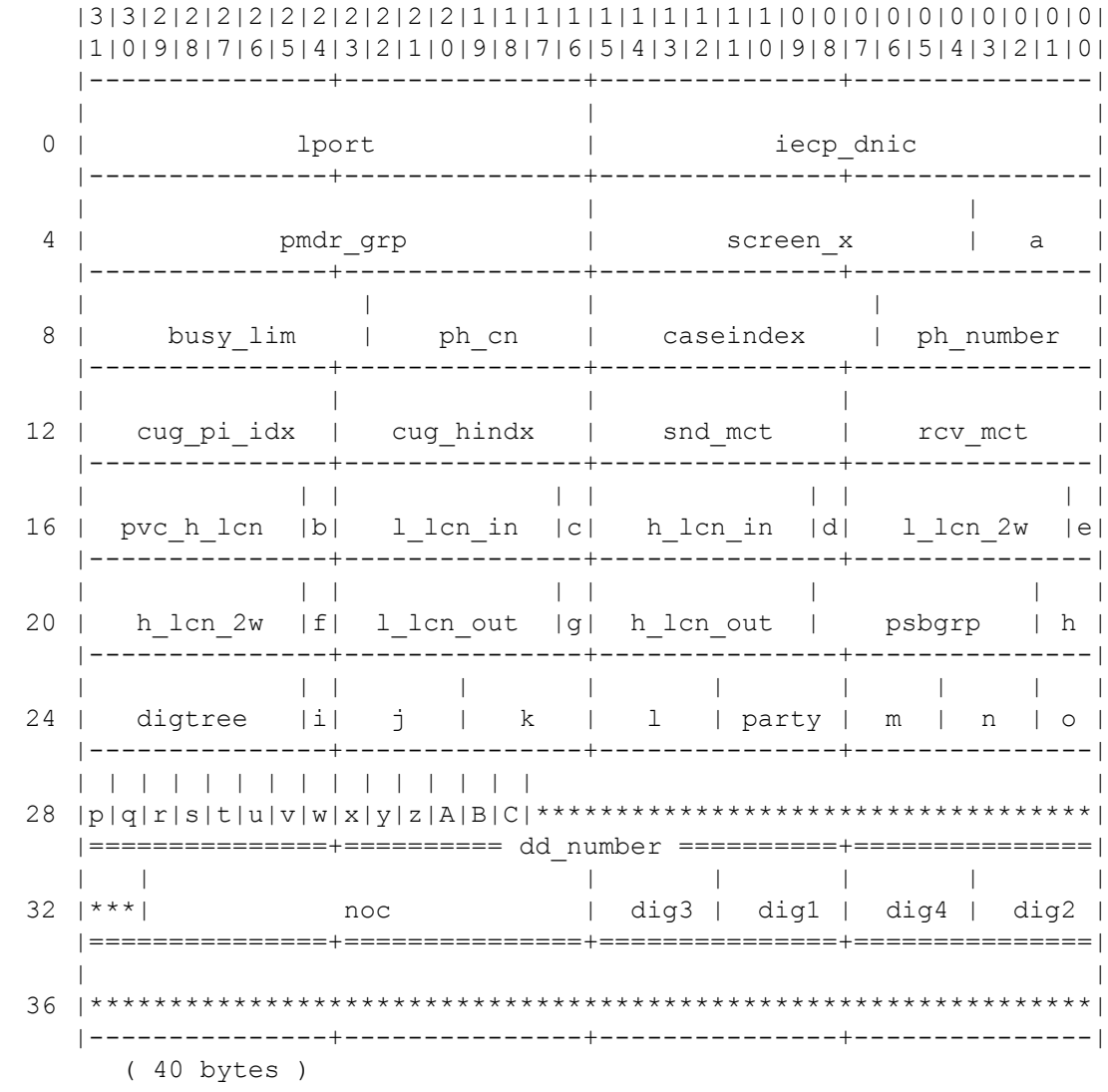
```
(z) l_chg_prev  DMBOOL       (enum: 1)
(A) notif_cls   DMPSNOTCLS   (enum: 1)
(B) chan_sel    DMBOOL       (enum: 1)
(C) ddn         DMBOOL       (enum: 1)
    dd_number   DMCLOCDN     (struct)  <--- compacted
        noc         DMNOC        (ushort: 14)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
```

Compacted Tuple Layout PSX25LN




( 40 bytes )

```
    lport       DMLPORT      (ushort: 16)
    iecp_dnic   DMPSDNIC     (ushort)
    pmdr_grp    DMFACID      (ushort)
    screen_x    DMSCRNIDX    (ushort: 12)
(a) send_thruputcl  DMPSTHRUPT   (enum: 4)
    busy_lim    DMMLHG_LCN   (ushort: 9)
    ph_cn       DMPHCN       (uchar: 7)        <--- key
```

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```
    caseindex   DMCASEMAX    (ushort: 9)
    ph_number   DMPHNBR      (uchar: 7)        <--- key
    cug_pi_idx  DMPSCTCUGX   (uchar)
    cug_hindx   DMPSCTCUGX   (uchar)
    snd_mct     DMUCHAR      (uchar)
    rcv_mct     DMUCHAR      (uchar)
    pvc_h_lcn   DMPS_LCN     (uchar: 7)
(b) fst_select  DMBOOL       (enum: 1)
    l_lcn_in    DMPS_LCN     (uchar: 7)
(c) cug_oaflg   DMBOOL       (enum: 1)
    h_lcn_in    DMPS_LCN     (uchar: 7)
(d) cug_iaflg   DMBOOL       (enum: 1)
    l_lcn_2w    DMPS_LCN     (uchar: 7)
(e) mhgflg      DMBOOL       (enum: 1)
    h_lcn_2w    DMPS_LCN     (uchar: 7)
(f) flow_cntl   DMBOOL       (enum: 1)
    l_lcn_out   DMPS_LCN     (uchar: 7)
(g) throughput  DMBOOL       (enum: 1)
    h_lcn_out   DMPS_LCN     (uchar: 7)
    psbgrp      DMPSBGRP     (ushort: 7)
(h) lpt_type    DMLPT_TYPE   (enum: 2)
    digtree     DMDA_TREE    (ushort: 7)
(i) rvrs_chrg   DMBOOL       (enum: 1)
(j) rcv_thruputcl  DMPSTHRUPT   (enum: 4)
(k) rcv_pktsz   DMPS_PKTSZ   (enum: 4)
(l) send_pktsz  DMPS_PKTSZ   (enum: 4)
    party       DMPARTY      (ushort: 4)       <--- key
(m) rcv_wndwsz  DMPS_WDWSZ   (enum: 3)
(n) send_wndwsz  DMPS_WDWSZ   (enum: 3)
(o) hnt_nfy     DMCLAMN      (enum: 2)
(p) oc_barred   DMBOOL       (enum: 1)
(q) ic_barred   DMBOOL       (enum: 1)
(r) intercom    DMBOOL       (enum: 1)
(s) intercept   DMBOOL       (enum: 1)
(t) billdn_flg  DMBOOL       (enum: 1)
(u) ccitt_ver   DMCCITTV     (enum: 1)
(v) call_tn     DMBOOL       (enum: 1)
(w) call_id     DMBOOL       (enum: 1)
(x) dis_scr     DMBOOL       (enum: 1)
(y) pmdr_act    DMBOOL       (enum: 1)
(z) l_chg_prev  DMBOOL       (enum: 1)
(A) notif_cls   DMPSNOTCLS   (enum: 1)
(B) chan_sel    DMBOOL       (enum: 1)
(C) ddn         DMBOOL       (enum: 1)
    dd_number   DMCLOCDN     (struct)  <--- compacted
        noc         DMNOC        (ushort: 14)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
          Stored Tuple Layout      PSX25LN
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
```

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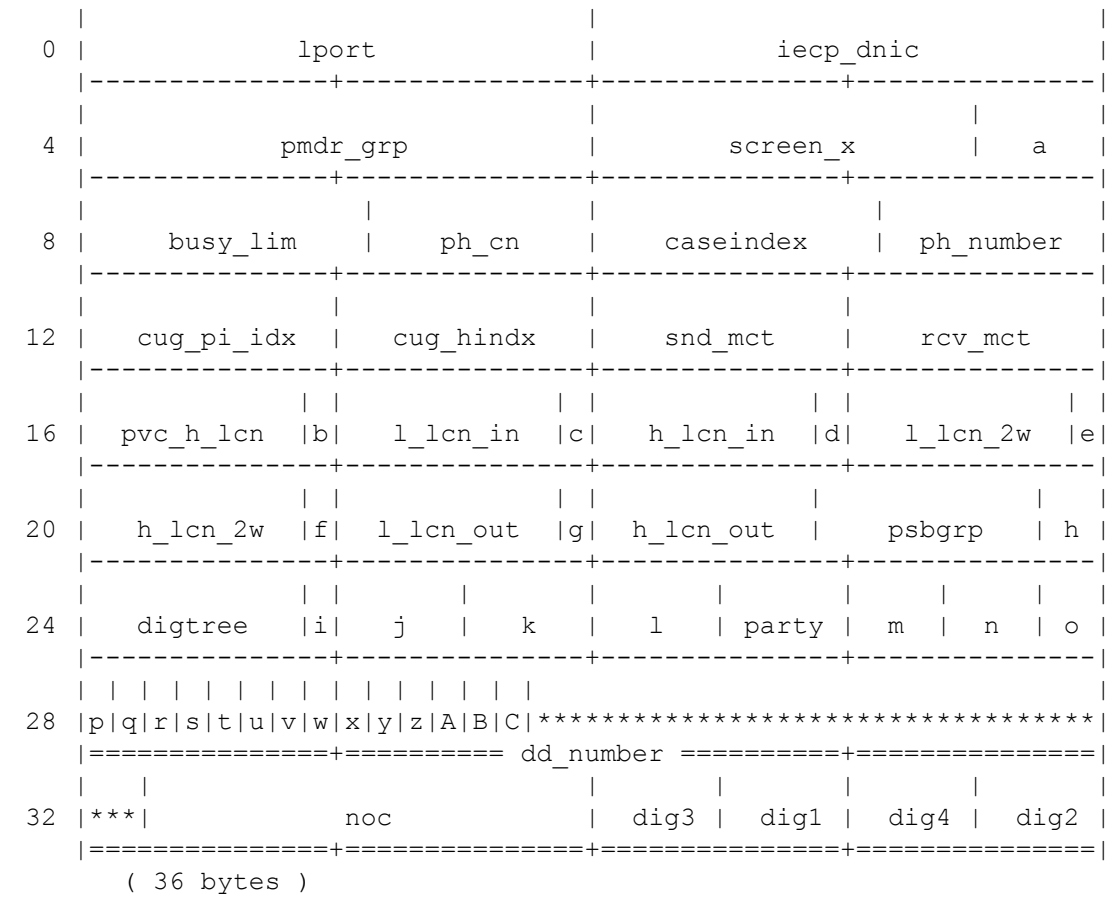


## 4. Population rules for RLpsx25ln

### Relation Description

Packet switching X.25 line

This relation defines the X.25 level 3 data for a packet switching (PS) digital subscriber line (DSL) D- or B- channel or an X.25 access on a T1 (XAT) port. This relation must be populated before the RLpspvcinf and RLpsmappvc relations.

Packet switching X.25 line.

**Attribute:**

ph_number

**Fullname:**

Protocol handler (PH) number

**Attribute Description:**

The PH number that a XAT port is assigned. For efficient memory utilization, it should be assigned sequentially.

As of 5E9(1), all X.25 packet will no longer be supported on the PH2 access image. X.25 packet will only be supported on PH3s.

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**Attribute:**
ph_cn
**Fullname:**
Protocol handler channel number
**Attribute Description:**
The PH channel number that a XAT port is assigned.
The range is from 0 to 127.

For efficient memory utilization, it should be
assigned sequentially.

**Attribute:**
party
**Fullname:**
DSL D channel multipoint
**Attribute Description:**
Specific packet user (Key3) within an ISDN DSL D-channel.
There can be up to eight packet user service order profiles
(SOPs) defined. Permanent packet B-channels (PPB) and
on-demand packet B-channels (ODB) are populated with FCP_BCHAN.
This attribute is not used by XAT port, populate with FCP_INDI
for XAT ports.

ODBs do not appear in rlDSLEQUIP or rlEQUIPDSL. For each tuple
in this relation that is populated for a DSL associated with an
individual directory number (DN) (not a group DN) that is not a
common DN, there must be a matching tuple in dslequip, equipdsl,
and pr_dntran relation. For each non-ODB tuple in this relation
that is populated for a DSL associated with an individual DN (not
a group DN) that is a common DN, there must be a matching tuple
in dslequip, equipdsl, and pr_dntran relation; however, the
ph_number, ph_cn, and party attributes are only populated with
one channel of the common DN (see RLpr_dntra.p poprules for how
these attributes are populated).

Without Channel Selection
---
rlPSX25LN.ph_number = rlDSLEQUIP.dsl_group
= rlEQUIPDSL.dsl_group = rlPR_DNTRAN.ph_number,
rlPSX25LN.ph_cn = rlDSLEQUIP.member.
= rlEQUIPDSL.member = rlPR_DNTRAN.ph_cn.
rlPSX25LN.dd_number = rlPR_DNTRAN.dn.
With Channel Selection
---
rlPSX25LN.ph_number = rlDSLEQUIP.dsl_group
= rlEQUIPDSL.dsl_group
rlPSX25LN.ph_cn = rlDSLEQUIP.member.
= rlEQUIPDSL.member
rlPSX25LN.dd_number = rlPR_DNTRAN.dn.

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```
        For each tuple in this relation that is populated for a DSL
        associated only with a multi-line hunt group (MLHG) DN (that is,
        the DSL has no individual DN assigned to it) there must be a
        matching tuple in dslequip, equipdsl, and pr_dntran relation
        such that:

        rlPSX25LN.ph_number = rlDSLEQUIP.dsl_group =
                rlDSLEQUIP.dsl_group = rlEQUIPDSL.dsl_group and
                rlPR_DNTRAN.ph_number = 0 (default)
        rlPSX25LN.ph_cn = rlDSLEQUIP.member =
                rlDSLEQUIP.member = rlEQUIPDSL.member and
                rlPR_DNTRAN.ph_cn = 0 (default)
        rlPSX25LN.dd_number = rlPR_DNTRAN.dn.

        For each tuple in this relation that is populated for a DSL
        associated with BOTH an individual AND an MLHG DN, the
        attributes populated are those only associated with the
        corresponding individual DN such that:

        Without Channel Selection
        -------------------------
        PSX25LN.ph_number = rlDSLEQUIP.dsl_group
                = rlEQUIPDSL.dsl_group = rlPR_DNTRAN.ph_number,
        rlPSX25LN.ph_cn = rlDSLEQUIP.member
                = rlEQUIPDSL.member = rlPR_DNTRAN.ph_cn, and
        rlPSX25LN.dd_number = rlPR_DNTRAN.dn.
        With Channel Selection
        ----------------------
        PSX25LN.ph_number = rlDSLEQUIP.dsl_group
                = rlEQUIPDSL.dsl_group
        rlPSX25LN.ph_cn = rlDSLEQUIP.member
                = rlEQUIPDSL.member
        rlPSX25LN.dd_number = rlPR_DNTRAN.dn.

        In this case the dsl_group ph_number, member, ph_cn,
        dd_number, and dn must be those associated with the
        individual DN.
```

**Attribute:**

dd_number

**Fullname:**

Directory number

**Attribute Description:**

```
        Structure of local directory number for packet switching.

        NOC     - Normalized office code, range from 1 to AVNOCMAX().
        digits  - Four digit local number, excluding * and #.

        If mhgflg is DBNO, dd_number is the individual directory
        number.  Else, if mhgflg is DBYES and if pvc_h_lcn greater
        than zero, dd_number must

        be an individual directory number, so that a permanent
```

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virtual circuit (PVC) that belongs to this packet switching port can be setup without being hunted by using the individual directory number.

If mlhg = DBYES and the dd_number is not equal to RLrc_pgrprmk.tn keyed by RLpsprt_gp (Gl_pcrid,ph_number,ph_cn,party).grpnum, the dd_number must be the individual directory number; otherwise, dd_number must be a directory number of the MLHG group the packet switching port belongs to.

When PS DSL line subscribes to receive modem pool access from an analog line, there must be a matching tuple in rtdnmpg and rt_dntran relations such that rlPSX25LN.dd_number = rlRT_DNTRAN.dn = rlRTDNMPG.dsldn.

Also if rlPSX25LN.billdn_flg = DBNO, rlRTDNMPG.billdsldn will be derived from rlPSX25LN.dd_number and RLofficecode relation.

Otherwise, rlPSBILLDN.bill_dn = rlRTDNMPG.billdsldn

**Attribute:**
dd_number.noc
**Fullname:**
Normalized office code
**Attribute Description:**
Normalized office code.

**Attribute:**
dd_number.digits
**Fullname:**
Count of digits
**Attribute Description:**
For XAT ports the digcnt member of dd_number will always be equal to 10 digits.

**Attribute:**
cug_pi_idx
**Fullname:**
Closed user group (CUG) preferential customer index
**Attribute Description:**
The preferential customer CUG index is a two digit HEX code, range from 00 to 99, and FF. Default is FF which means that the customer does not have the preferential CUG.

If the DSL subscribes to CUGs (that is, cug_hindx is not equal to FF), the value of cug_pi_idx depends upon cug_oaflg and cug_iaflg.

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If cug_oaflg = DBNO and cug_iaflg = DBNO, cug_pi_idx must be specified, and must not be FF. If the DSL has only one CUG, then that CUG must be the preferential CUG such that:

1. RLpsx25ln.ph_number = RLpscstcug.ph_number, RLpsx25ln.ph_cn = RLpscstcug.ph_cn and RLpsx25ln.party = RLpscstcug.party.

2. RLpsx25ln.cug_pi_idx = RLpsx25ln.cug_hindx = RLpscstcug.cust_cugx.

If cug_oaflg = DBNO and cug_iaflg = DBNO, and the DSL has more than one CUGs, one of the CUGs must be designated as the preferential CUG.

If cug_oaflg = DBYES, or cug_iaflg = DBYES, the DSL can optionally have the preferential CUG. If cug_pi_idx is set to FF, then the DSL does not have the preferential CUG. Otherwise, 00 <= cug_pi_idx <= cug_hindx.

If the DSL does not subscribe to any CUGs (that is, cug_hindx is equal to FF), set the following:

cug_pi_idx = FF, cug_oaflg = DBNO and cug_iaflg = DBNO

**Attribute:**
cug_hindx
**Fullname:**
Closed user group customer highest index
**Attribute Description:**
The highest index to customer CUG index array is a two digit hex code, range from 0 to 99, and FF. Where 0xFF means that the customer does not subscribe any CUGs.

The cughindx is equal to highest rlPSCSTCUG.cust_cugx with the same ph_number and ph_cn.

If cug_hindx is not equal to 0xFF, there must be a tuple with ph_number, ph_cn, and cug_hindx as keys in the pscstcug relation.

Initially, there is no CUG assigned to the DSL; cug_hindx is set to 0xFF. When the first CUG (it is not necessary that rlPSCSTCUG.cust_cugx is equal to one) is assigned, cug_hindx must be set to rlPSCSTCUG.cust_cugx. For the subsequent CUG assignments, if the new rlPSCSTCUG.cust_cugx is greater than the current value of cug_hindx, then cug_hind must set to the new rlPSCSTCUG.cust_cugx. Otherwise, cug_hindx remains the same.

For PS DSL customers who subscribe to a modem pool, access must be assigned to a preferential customer CUG or a regular CUG on the

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RLpscstcug relation. All the PS DSL users who subscribe to a particular modem pool, together with the modem pool terminal adapters (MPTAs) of that modem pool group must be assigned to the same CUG group. All the MPTAs in any CUG groups must be assigned to preferential CUG, that is, the cug_pi_idx is not used in dialing for origination from MPTA. Because of this restriction, an MPTA can only be assigned to one CUG group.

**Attribute:**
cug_oaflg
**Fullname:**
Closed user group outgoing access flag
**Attribute Description:**
CUG outgoing access indicator.

**Attribute:**
cug_iaflg
**Fullname:**
Closed user group incoming access flag
**Attribute Description:**
CUG incoming access indicator.

**Attribute:**
pvc_h_lcn
**Fullname:**
PVC highest logical channel number
**Attribute Description:**
The highest logical channel number (LCN) that can be assigned to a PVC. The lowest LCN for a PVC is always one. The range is from 0 to 127. A zero implies no PVCs. If pvc_h_lcn is greater than zero, a tuple in the RLpsmappvc relation must be populated with all the bits on all the four bitmap attributes set to zero as initial values. If no PVCs all the bits are also set to zero.

For MPTA of packet switch modem call processing (PSMCP), set pvc_h_lcn equal to zero. The value of pvc_h_lcn (as zero or nonzero) impacts the value of the RLspid.fip_req attribute. See the RLspid poprules for further details.

**Attribute:**
l_lcn_in
**Fullname:**
Lowest-one way incoming logical channel number
**Attribute Description:**
The lowest one-way incoming LCN. Range must immediately follow that of PVC such that: pvc_h_lcn + 1 <= l_lcn_in <= h_lcn_in.

For MPTA of PSMCP, set l_lcn_in equal to zero.

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**Attribute:**
h_lcn_in
**Fullname:**
Highest one-way incoming logical channel number
**Attribute Description:**
The highest one-way incoming LCN. Range must immediately follow that of PVC such that: pvc_h_lcn + 1 <= l_lcn_in <= h_lcn_in.

For MPTA of PSMCP, set h_lcn_in equal to zero.

**Attribute:**
l_lcn_2w
**Fullname:**
Lowest two-way logical channel number
**Attribute Description:**
The lowest-two way LCN. Range must immediately follow that of one-way incoming such that: h_lcn_in + 1 <= l_lcn_2w <= h_lcn_2w.

For MPTA of PSMCP, set l_lcn_2w equal to one.
Note: only logical channel 'one' in a D channel is assigned to that DSL line connected to MPTA; this is accomplished by setting l_lcn_2w = 1 and h_lcn_2w =1.

**Attribute:**
h_lcn_2w
**Fullname:**
Highest two-way logical channel number
**Attribute Description:**
The highest-two way LCN. Range must immediately follow that of one-way incoming such that: h_lcn_in + 1 <= l_lcn_2w <= h_lcn_2w.

For MPTA of PSMCP, set h_lcn_2w equal to one.

**Attribute:**
l_lcn_out
**Fullname:**
Lowest one-way outgoing logical channel number
**Attribute Description:**
The lowest-one way outgoing LCN. Range must immediately follow that of two-way LCNs such that: h_lcn_2w + 1 <= l_lcn_out <= h_lcn_out.

**Attribute:**
h_lcn_out
**Fullname:**
Highest one-way outgoing logical channel number
**Attribute Description:**
The highest one-way outgoing LCN. Range must immediately follow that of two-way LCNs such that: h_lcn_2w + 1 <= l_lcn_out <= h_lcn_out.

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**Attribute:**
mhgflg
**Fullname:**
Multi-line hunt group flag
**Attribute Description:**
Multi-line hunt group indicator. If DBYES and if chan_sel is DBNO, then there must be a matching tuple in psprt_gp, psgp_prt, rt_mhg relations such that: ph_number = rlPSPRT_GP.ph_number = rlPSGP_PRT.ph_number, ph_cn = rlPSPRT_GP.ph_cn = rlPSGP_PRT.ph_cn, rlPSPRT_GP.grpnum = rlPSGP_PRT.grpnum = rlRT_MHG.grpnum, rlPSPRT_GP.member = rlPSGP_PRT.member.

If DBYES and chan_sel is DBYES, then there must be a matching tuple in psprt_gp and rt_mhg relations such that: ph_number = rlPSPRT_GP.ph_number, ph_cn = rlPSPRT_GP.ph_cn

Also, if DBYES and chan_sel is DBNO, then l_lcn_in, h_lcn_in, l_lcn_2w, and h_lcn_2w cannot be all zeros. If mhgflg equals DBYES and chan_sel equals DBYES, then only h_lcn_in and h_lcn_2w for one of the assigned channels must be non-zero. This check is done under the busy_lim attribute. This means that a member of an MLHG must have a valid logical channel range assigned for two-way and/or one-way incoming communication. In this case, the mlhg_cnt attribute of the tuple in the relation RLdslgdata whose dsl_group is the same as this tuple's ph_number must be incremented. If this condition is not satisfied, then the mlhg_cnt attribute in that tuple should not be incremented, with the following exception. For a terminal adaptor of a modem pool group, mhgflg is set to DBYES, but the mlhg_cnt is not incremented.

If a recent change operation modifies this tuple so that the previous condition becomes no longer true, then mlhg_cnt in RLdslgdata should also be decremented as part of the RC operation.

**Attribute:**
flow_cntl
**Fullname:**
Flow control parameter negotiation indicator
**Attribute Description:**
If flow_cntl is DBNO, then send_pktsz and rcv_pktsz must be equal to the lowest value which is PKTSZ128.

**Attribute:**
throughput
**Fullname:**
Throughput class negotiation indicator for a virtual circuit
**Attribute Description:**
Throughput class negotiation indicator (DBYES/DBNO).

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**Attribute:**
send_thruputcl
**Fullname:**
Throughput class of a virtual circuit for sending
**Attribute Description:**
Throughput class of a virtual call for sending.
The default value is PS9600BPS.

**Attribute:**
rcv_thruputcl
**Fullname:**
Throughput class of a virtual circuit for receiving
**Attribute Description:**
Throughput class of a virtual call for receiving.
The default value is PS9600BPS.

**Attribute:**
fst_select
**Fullname:**
Fast select acceptance indicator
**Attribute Description:**
Fast select acceptance indicator.

**Attribute:**
rvrs_chrg
**Fullname:**
Reverse charge acceptance indicator
**Attribute Description:**
Reverse charge acceptance indicator.

**Attribute:**
oc_barred
**Fullname:**
Outgoing call barred
**Attribute Description:**
If DBYES, outgoing packet call origination is denied. This is done to prevent outgoing virtual calls from being originated from the data terminating equipment (DTE). The restriction is established by service provisioning and applies to all outgoing virtual calls at the DTE/data circuit equipment (DCE) interface. The facility is independent of the logical channel assignments for one-way outgoing or two-way channels.

Any existing data for the logical channel assignments should be left intact when the outgoing-calls-barred facility is set to DBYES, allowing outgoing and two-way LCN assignments to be re-activated by setting the outgoing-calls-barred facility to DBNO.

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**Attribute:**
ic_barred
**Fullname:**
Incoming call barred
**Attribute Description:**
If DBYES, incoming packet call termination is denied. This is done to prevent incoming virtual calls from being presented to the DTE. The restriction is established by service provisioning and applies to all incoming virtual calls at the DTE/DCE interface. The facility is independent of the logical channel assignments for one-way incoming or two-way channels.

Any existing data for the logical channel assignments should be left intact when the incoming-calls-barred facility is set to DBYES, allowing incoming and two-way LCN assignments to be re-activated by setting the incoming-calls-barred facility to DBNO.

**Attribute:**
intercom
**Fullname:**
Intercom address indicator
**Attribute Description:**
Intercom address indicator.

**Attribute:**
rcv_pktsz
**Fullname:**
Receiving packet size
**Attribute Description:**
Packet size for receiving.

**Attribute:**
rcv_wndwsz
**Fullname:**
Receiving window size
**Attribute Description:**
X.25 (Level 3) receiving window size.

The allowed values for window size are WDWSZ1-WDWSZ7. The value of WDWNULL is not allowed. If the value is not WDWSZ2 then flow control negotiation must be subscribed to.

**Attribute:**
send_pktsz
**Fullname:**
Sending packet size
**Attribute Description:**
Packet size for sending.

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**Attribute:**
send_wndwsz
**Fullname:**
Sending window size
**Attribute Description:**
X.25 (Level 3) sending window size.

The allowed values for window size are WDWSZ1-WDWSZ7. The value of WDWNULL is not allowed. If the value is not WDWSZ2 then flow control negotiation must be subscribed to.

**Attribute:**
lport
**Fullname:**
Logical port type associated with this tuple
**Attribute Description:**
The logical port associated with this tuple. The valid values include the full range for ODB and PPD users. For PPB users, this attribute is always set to zero.

Refer to the population rules in RLrc_lphol.P and RLrc_qidx.P for more details on lport assignment.

```
Domain:         DMLPORT
ODB Range:      1 - 8191        (on demand B LPORT)
PPD Range:      1 - 8191        (permanent packet D LPORT)
PPB Range:      0               (permanent packet B LPORT)
Default:        1) not applicable for ODB or PPD.
                2) must be zero for all other applications.
Dependencies:
```

The only check for this tuple will be against the lport contained in RLspid. Refer to the checks sections of RLspid.P for further cross checks.

```
if (RLpsx25ln.lport is_not_equal 0) then
    find exactly 1 tuple in RLlpt_spid
    where ((RLlpt_spid.lport equals RLpsx25ln.lport) and
            (RLlpt_spid.lpt_type equals RLpsx25ln.lpt_type))
    when found
        find exactly 1 tuple in RLspid
        where ( RLspid.uspid   equals RLlpt_spid.uspid)
        when found
            find exactly 1 tuple in RLdslequip
            where (RLdslequip.dsl equals RLspid.dsl)
            when found
                if ((RLdslequip.dsl_group equals RLpsx25ln.ph_number) and
                    (RLdslequip.member equals RLpsx25ln.ph_cn))
                then RLspid.ppd_lport equals RLpsx25ln.lport:
                else RLspid.odp_lport equals RLpsx25ln.lport:
```

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**Attribute:**
lpt_type
**Fullname:**
Logical port type of this tuple
**Attribute Description:**
The logical port type of this tuple.

**Attribute:**
psbgrp
**Fullname:**
Group number
**Attribute Description:**
Used by packet switching data business group service feature. This feature provides a means of setting up and administering packet switched data business groups, for several purposes.

The primary purpose of packet business group (PBG) was to distinguish between intra-group and non-intra-grp PVC/VC calls on automatic message accounting (AMA) (billing) records. The PBG purpose has been expanded to allow a common means of abbreviated dialing for members of a PBG, abbreviated calling number delivery for intra-PBG calls, and perhaps most important, the ability to provision a simulated facility group (SFG) for the PBG. An SFG can place a limit on the resources consumed by all the members of the PBG. These resource limits (independently provisioned) are aggregate logical channel numbers (LCNs) and throughput class negotiation (TPC). When the limit is exceeded by active calls, future calls may either be blocked or charged at a premium rate.

This attribute contains the packet switching data business group number, or zero if this B or D-channel packet switching customer is not a member of a packet business group.

The members of a PBG can be individual packet users as well as an entire packet MLHG. Each individual packet user has one tuple in RLpsx25ln. Each packet MLHG has one tuple in RLrt_mhg.

The members are put into a packet business group because the operating company wishes to bill the customers in a special way for virtual calls within the group or to administer the SFG.

The directory number associated with the party (originating or terminating) in a virtual call determines whether the packet business group number in RLpsx25ln or in RLrt_mhg is used: If the DN is individual, then RLpsx25ln is used, if the DN is hunted, then the packet business group in RLrt_mhg is used.

All members of a packet switching business group must be on the same 5ESS(R)-2000 switch.

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**Attribute:**
intercept
**Fullname:**
DN intercept flag
**Attribute Description:**
Indicates that the DN associated with this tuple been placed on intercept. Note that the packet switch MLHG group DN cannot be put on intercept (see attribute dd_number section), but an MLHG member or member DN can be intercept.

```
1: when ( RLpsx25ln.intercept == DBYES )
   and there exists a tuple in RLpr_dntran, such that:
        RLpr_dntran.dn = RLpsx25ln.dd_number
        RLpr_dntran.ph_number = RLpsx25ln.ph_number
        RLpr_dntran.ph_cn = RLpsx25ln.ph_cn
        RLpr_dntran.party = RLpsx25ln.party,
   then RLpr_dntran.pstermcl = RTTC_AGING.

2: when ( RLpsx25ln.intercept == DBYES )
   and there exists a tuple in RLpsprt_gp, such that:
        RLpsprt_gp.module = the sm number which owns the
        RLpsx25ln tuple
        RLpsprt_gp.ph_number = RLpsx25ln.ph_number
        RLpsprt_gp.ph_cn = RLpsx25ln.ph_cn
        RLpsprt_gp.party = RLpsx25ln.party,
   then there should exist a RLrt_lgmem or RLrt_mem tuple on
        RLpsprt_gp.htgmod module such that:
        RLrt_lgmem.grpnum = RLpsprt_gp.grpnum or
        RLrt_mem.grpnum = RLpsprt_gp.grpnum.

        case 1: There exists a RLrt_lgmem tuple such that
                RLrt_lgmem.grpnum = RLpsprt_gp.grpnum.
                Then the bit associated to RLpsprt_gp.member
                in the RLrt_lgmem tuple should set to not
                active (not zero).
        case 2: There exists a RLrt_mem tuple such that
                RLrt_mem.grpnum = RLpsprt_gp.grpnum.
                Then the bit associated to RLpsprt_gp.member
                in the RLrt_mem tuple should set to not active
                (not zero).
```

**Attribute:**
iecp_dnic
**Fullname:**
Inter-exchange carrier preselect for data network identification code (DNIC)
**Attribute Description:**
This is the four digit (in binary coded decimal [BCD]) DNIC for inter-exchange carrier preselect, range from 0001 to 9999. Hex

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digits 'A' through 'F' are not allowed. There must be a matching tuple in the psdnicri relation such that:
rlPSDNICRI.dnic = iecp_dnic.

**Attribute:**
billdn_flg
**Fullname:**
Billing directory number flag
**Attribute Description:**
Is billing directory number different from dd_number?
If billdn_flg is DBYES, then the billing directory number is different from dd_number and there must be a tuple in the psbilldn relation with ph_number and ph_cn as keys.

**Attribute:**
screen_x
**Fullname:**
Screening index
**Attribute Description:**
Screening index for a packet switching DSL. This index ranges from 1 to 4095. A unique screen_x must be assigned to packet switching DSL channels. There must be a tuple in rt_scrning relation.

There must be a tuple in the rc_lcc relation with the same value of screen_x. To find the tuple of the rc_lcc relation, there must be a tuple in rc_cninf relation such that:

On the switching module (SM) where the DSL resides,
ph_number = rlDSLEQUIP.dsl_group = rlRC_CNINF.ph_number,
ph_cn = rlDSLEQUIP.member = rlRC_CNINF.ph_cn and
rlRC_CNINF.lcc = rlRC_LCC.lcc, and rlRC_CNINF.rax = rlRC_LCC.rax.

Both digtree and screen_x must be independent of the corresponding values used for circuit switched calls.

**Attribute:**
digtree
**Fullname:**
Digit analysis table identifier
**Attribute Description:**
Digit analysis table identifier. There must be a tuple in da_digstrt relation.

There must be a tuple in the rc_lcc relation with the same value of digtree. To find the tuple of the rc_lcc relation, there must be a tuple in rc_cninf relation such that:

On the SM where the DSL resides, ph_number = rlDSLEQUIP.dsl_group = rlRC_CNINF.ph_number, ph_cn = rlDSLEQUIP.member = rlRC_CNINF.ph_cn and rlRC_CNINF.lcc = rlRC_LCC.lcc, and rlRC_CNINF.rax = rlRC_LCC.rax.

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**Attribute:**
ccitt_ver
**Fullname:**
International telegraph and telephone consultative committee (Telecommunication Standardization Sector (ITU-TS) (formerly CCITT)) version
**Attribute Description:**
Specifies the version of ITU-TS protocol (such as 1980, 1984) that is supported for this DTE.

**Attribute:**
call_tn
**Fullname:**
Calling telephone number (TN) in AMA record
**Attribute Description:**
Specifies whether the calling TN received in a call request packet should be used as the billing TN in the AMA record for this DTE.

**Attribute:**
call_id
**Fullname:**
Calling ID enabled
**Attribute Description:**
Specifies whether the calling ID should be allowed to be received from the DTE. If enabled (DBYES), the call ID received in the call request packet should be used as the call ID for the call. If disabled (DBNO), the 5ESS(R)-2000 switch will generate a call ID for the call.

**Attribute:**
dis_scr
**Fullname:**
Disable DN screening
**Attribute Description:**
Specifies whether to disable the screening of the calling TN received in a call request packet for incorrect format. If screening is disabled (DBYES), the calling TN in the call request packet will not be screened. If screening is not disabled (DBNO), the calling TN in the call request packet will be screened normally.

**Attribute:**
pmdr_grp
**Fullname:**
Packet switching message detail recording (MDR) group
**Attribute Description:**

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This attribute indicates the MDR group associated with the packet TN of any packet DSL service or T1 (XAT) port. The MDR group must be a valid MDR group defined in RLmdr_gp.p with the pkt_mdr attribute set to DBYES. One thousand MDR groups may be assigned on each loaded SM.

Packet MDR groups may be assigned to any packet DSL service or T1 (XAT) packet service and the packet MDR activation status of each packet service is completely independent of the other packet services of the DSL.

Packet MDR groups may not be assigned to modem pool members. The RLmdr_gp.modem_pool attribute generates a special modem pool MDR record if a packet service the group is assigned to uses a modem pool.

**Attribute:**
pmdr_act
**Fullname:**
Packet switching MDR activation
**Attribute Description:**
This attribute indicates if packet MDR is active for a packet DSL service or T1 (XAT) port. If this attribute is DBYES then a valid MDR group must be populated in the pmdr_grp attribute. This attribute may be set differently for each MDR group assigned to any given DSL packet service.

**Attribute:**
l_chg_prev
**Fullname:**
X.25 DTE local charging prevention
**Attribute Description:**
Specifies whether or not to allow the local charge prevention feature for an X.25 DTE or XAT port. X.25 packet users/XAT ports may NOT subcribe to local charge prevention (LCP) and reverse charging acceptance (RCA) simultaneously since they are mutually exclusive. The following types of tuples in RLpsx25ln may NOT be provisioned with LCP: X.25 users or XAT ports with modem pool members or tuples in RLpsx25ln that are not X.25 users/XAT ports. It is possible for an X.25 user or XAT port to subscribe to LCP and the following types of services: packet MDR, MLHG members with or without an individual DN, trusted DTE, 1980 Telecommunication Standardization Sector (ITU-TS) (formerly CCITT) version DTE, a modem pool access DN user and ACSR features.

**Attribute:**
notif_cls
**Fullname:**
Notification class of service

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**Attribute Description:**

A DSL packet service can subscribe to either no notification (PSNO_NOTIFY) or conditional notification (PSCOND_NOTIFY) for a notification class of service. If a call is routed to a channel with conditional notification when the layer 1 is up on the channel, but layer 2 is down for the channel, then the channel will be notified of the incoming call. The channel is notified by sending Q.931 messages on the D-channel. If the user accepts the call by responding to the Q.931 messages, then the switch will initiate layer 2 setup procedures on the channel and offer the call. Conditional notification only applies to permanent packet D-channels and on-demand B-channels, however a permanent packet B-channel with channel selection may have conditional notification, but it has no meaning.

If DSL packet service has conditional notification, then it cannot have permanent virtual circuits (PVCs) or incoming calls barred. Only on-demand B-channels, permanent packet B-channels, and permanent packet D-channels can have conditional notification. A permanent packet B-channel cannot have conditional notification unless it also has channel selection. If a DSL packet service has conditional notification without channel selection, then it must have a two-way or incoming LCN.

If the channel is on a PH2, then the only allowed value in no notification. An MLHG member may not have conditional notification.

ODA requires that the value for notif_cls be entered. For Recent Change, the notif_cls attribute has a calculated value instead of a default value. If a valid value for notif_cls is not entered, then the calculated value for notif_cls is derived as follows:

If the channel is not a permanent packet D-channel, a permanent packet B-channel, or an on-demand B-channel, then the value for notif_cls is no notification.

For channels not subscribing to channel selection:

If the channel is on a PH2, then the value for notif_cls is no notification.

If the channel has incoming calls barred, no incoming or two-way LCNs, or the h_pvc_lcn attribute is non-zero, then the value for notif_cls is no notification.

If the channel is a member of a packet multi-line hunt group, then the value for notif_cls is no notification.

If the channel is a permanent packet B-channel, then the value for notif_cls is no notification.

If none of the previous cases apply then:

If the channel is a D-channel, then the value for

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notif_cls is conditional notification.

If the channel is a on-demand B-channel and has a t3xx value of zero minutes, then the value for notif_cls is conditional notification.
If the channel is an on-demand B-channel and has a t3xx value that is not equal to zero minutes, then the value for notif_cls is no notification.

If the channel is an on-demand B-channel and has an unknown value for t3xx, then the value for notif_cls is conditional notification.

For channels subscribing to channel selection:

Since the channel subscribes to channel selection, the channel must be on a PH3 or PH4, cannot have incoming calls barred, and can not have a non-zero value for the h_pvc_lcn attribute.

If the channel is a member of a packet multi-line hunt group, then the value for notif_cls is no notification.

If any other channel of the channel selection group has a known value for notif_cls, then the channel's value for notif_cls must match.

If the channel is a permanent packet B-channel and is part of a channel selection group including only permanent packet B-channels, then the value for notif_cls is no notification.

If none of the previous cases apply then:

If the channel is part of a channel selection group that includes a D-channel but does not include an on-demand B-Channel, then the value for notif_cls is conditional notification.

If the channel is part of a channel selection group that includes an on-demand B-channel that has a t3xx value of zero minutes, then the value for notif_cls is conditional notification.

If the channel is part of a channel selection group that includes an on-demand B-channel that has a t3xx value that is not equal to zero minutes, then the value for notif_cls is no notification.

If the channel is part of a channel selection group that includes an on-demand B-channel and has an unknown value for t3xx, then the value for notif_cls is conditional notification.

**Attribute:**

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chan_sel

**Fullname:**

Active channel selection

**Attribute Description:**

If a DSL packet service has active channel selection, then it shares a common DN with one or two other packet services on the DSL. When a call is terminated to the common DN, an active channel selection algorithm is performed to determine which channel the call should be offered on.

If a channel has active channel selection, then the channel must be included in a tuple of RLcdnchan. Only on-demand B-channels, Permanent packet B-channels, and permanent packet D-channel can subscribe to active channel selection. If an MLHG member subscribes to channel selection, then it must have an individual DN.

**Attribute:**

snd_mct

**Fullname:**

Maximum combined throughput for the sending direction

**Attribute Description:**

This attribute provides a limit on throughput for the sending direction. When the sum of the sending throughput of virtual calls exceeds the maximum combined throughput, the user is considered busy. A value of zero means that no maximum combined throughput limit for the sending direction has been subscribed.

The value for this is provisioned and stored in kilo-bits-per-second. For B-channels, this attribute has a range of 0 and 64 to 128 in increments of 8. For D-channels, this attribute has a range of 0 and 16 to 32 in increments of 2. The default value for this attribute is 0.

Only on-demand B-channels, permanent packet B-channels, permanent packet D-channels, and X.25 access on a T1 channel can have a non-zero value for this attribute. If the channel is on a PH2, then the value of this attribute must be zero.

**Attribute:**

rcv_mct

**Fullname:**

Maximum combined throughput for the receiving direction

**Attribute Description:**

This attribute provides a limit on throughput for the receiving direction. When the sum of the receiving throughput of virtual calls exceeds the maximum combined throughput, the user is considered busy. A value of zero means that no maximum combined throughput limit for the receiving direction has been subscribed.

The value for this is provisioned and stored in kilo-bits-per-second. For B-channels, this attribute has a range of 0 and 64 to 128 in

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increments of 8. For D-Channels, this attribute has a range of 0 and 16 to 32 in increments of 2. The default value for this attribute is zero.

Only on-demand B-channels, permanent packet B-channels, permanent packet D-channels, and X.25 access on a T1 channel can have a non-zero value for this attribute. If the channel is on a PH2, then the value of this attribute must be zero.

**Attribute:**
hnt_nfy
**Fullname:**
Hunting notification
**Attribute Description:**
Hunting notification specifies the type of called line address modification (CLAMN) procedures that is subscribed.

The following types of hnt_nfy are valid: PSCLAMN (old), PSNFY_YES (yes), PSNFY_NO (no), and PSNFY_NULL (blank).

Any X.25 service, that is not a packet MLHG member, must have a hnt_nfy value of PSNFY_NULL (blank).

Packet modem pool members can't provision hunting notification, they must have a hnt_nfy value of PSNFY_NULL (blank).

If packet MLHG member has an individual DN, then they can subscribe to a hnt_nfy value of PSNFY_YES, PSNFY_NO, or PSCLAMN, otherwise the only valid values are PSNFY_NO and PSCLAMN.

The hunting notification procedure for an OSPS packet MLHG member must be PSCLAMN.

**Attribute:**
busy_lim
**Fullname:**
Busy limit indicator for packet MLHG members
**Attribute Description:**
This attribute specifies the maximum number of LCNs that are available for hunted packet calls.

When the sum of incoming call LCNs exceeds the busy limit the multi-line hunt group is marked busy for hunted calls.

The busy limit is not a valid parameter for a packet service that is not a member of a packet MLHG. The busy_lim must equal zero.

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The busy_lim value for a packet MLHG member, without channel selection, can be in the range of one to the total of incoming and two-way LCNs.

The busy_lim value for a packet MLHG member, with channel selection, can be in the range of one to the total of incoming and two-way LCNs for all the associated channels found in RLcdnchan since there must be at least one incoming or two-way LCN for the common packet MLHG member.

The busy_lim value for an OSPS packet MLHG member must be equal to the total of incoming and two-way LCNS for the packet service.

**Attribute:**
ddn
**Fullname:**
Default Directory Number
**Attribute Description:**
This attribute indicates if user is an packet DDN user.

**Attribute:**
caseindex
**Fullname:**
Case Index
**Attribute Description:**
Index into the CALEA cases

**Defines:**
"db/DMparty.h"

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# PSX75TRK

## 1. Description

This relation defines X.75 and X.75' level 3 trunk member data and parameters. This relation must be populated before RLpsmappvc and RLpspvcinf relations.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 480 |
| expected tuples in relation | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 11 |
| l1 length of subkey1, 1st 2 bits of ph_cn | 2 |
| p1 position of subkey1 | 8 |
| l2 length of subkey2, all 7 bits of ph_number | 7 |
| p2 position of subkey2 | 0 |
| l3 length of subkey3, last 5 bits of ph_cn | 5 |
| p3 position of subkey3 | 10 |
| ks key store | DBNO |
| trigger function | RTrcx75trk |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | unperm |

## 3. Field Layout

```
PSX75TRK    relid = 1116  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     ph_number   DMPHNBR      (uchar: 7)     <--- key, not stored
     ph_cn       DMPHCN       (uchar: 7)     <--- key, not stored
     pvc_h_lcn   DMPS_LCN     (uchar: 7)
     l_lcn_in    DMPS_LCN     (uchar: 7)
     h_lcn_in    DMPS_LCN     (uchar: 7)
     l_lcn_out   DMPS_LCN     (uchar: 7)
     h_lcn_out   DMPS_LCN     (uchar: 7)
     l_lcn_2w    DMPS_LCN     (uchar: 7)
     h_lcn_2w    DMPS_LCN     (uchar: 7)
 (a) h_to_l      DMBOOL       (enum: 1)
 (b) in_thrucl   DMPSTHRUPT   (enum: 4)
 (c) out_thrucl  DMPSTHRUPT   (enum: 4)
 (d) in_wndsz    DMPS_WDWSZ   (enum: 3)
 (e) out_wndsz   DMPS_WDWSZ   (enum: 3)
 (f) in_pktsz    DMPS_PKTSZ   (enum: 4)
 (g) out_pktsz   DMPS_PKTSZ   (enum: 4)
 (h) util_faclen  DMUTFACSIZE  (enum: 2)
     x75id1      DMPSX75ID    (uchar)
     x75id2      DMPSX75ID    (uchar)
     x75id3      DMPSX75ID    (uchar)
     x75id4      DMPSX75ID    (uchar)
     x75id5      DMPSX75ID    (uchar)
     x75id6      DMPSX75ID    (uchar)
 (i) rpoa_senddel  DMBOOL       (enum: 1)
 (j) rpoa_rcvdel  DMBOOL       (enum: 1)
 (k) tni_state   DMTNISTATE   (enum: 2)
```

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```
(l) cugscrn_alw  DMBOOL       (enum: 1)
    iiclist_id  DMPSIIC_CN   (ushort: 11)
    prov_flags  DMULONG      (ulong)
        User and Compacted Tuple Layout   PSX75TRK
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               | |             |                               |
 0 |  ph_number    |*|    ph_cn    |*******************************|
   |---------------+---------------+---------------+---------------|
   |               | |             | |             | |             | |
 4 |  pvc_h_lcn    |*|   l_lcn_in  |*|   h_lcn_in  |*|  l_lcn_out  |*|
   |---------------+---------------+---------------+---------------|
   |               | |             | |             | |       |       |
 8 |  h_lcn_out    |*|   l_lcn_2w  |*|   h_lcn_2w  |a|   b   |   c   |
   |---------------+---------------+---------------+---------------|
   |     |     |   |       |       |   |           |               |
12 |  d  |  e  |***|   f   |   g   | h |***********|     x75id1    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
16 |     x75id2    |     x75id3    |     x75id4    |     x75id5    |
   |---------------+---------------+---------------+---------------|
   |               | | |   | |     |                       |       |
20 |     x75id6    |i|j| k |l|*****|      iiclist_id       |*********|
   |---------------+---------------+---------------+---------------|
   |                                                               |
24 |                           prov_flags                          |
   |---------------+---------------+---------------+---------------|
     ( 28 bytes )
    pvc_h_lcn   DMPS_LCN     (uchar: 7)
    l_lcn_in    DMPS_LCN     (uchar: 7)
    h_lcn_in    DMPS_LCN     (uchar: 7)
    l_lcn_out   DMPS_LCN     (uchar: 7)
    h_lcn_out   DMPS_LCN     (uchar: 7)
    l_lcn_2w    DMPS_LCN     (uchar: 7)
    h_lcn_2w    DMPS_LCN     (uchar: 7)
(a) h_to_l      DMBOOL       (enum: 1)
(b) in_thrucl   DMPSTHRUPT   (enum: 4)
(c) out_thrucl  DMPSTHRUPT   (enum: 4)
(d) in_wndsz    DMPS_WDWSZ   (enum: 3)
(e) out_wndsz   DMPS_WDWSZ   (enum: 3)
(f) in_pktsz    DMPS_PKTSZ   (enum: 4)
(g) out_pktsz   DMPS_PKTSZ   (enum: 4)
(h) util_faclen  DMUTFACSIZE  (enum: 2)
    x75id1      DMPSX75ID    (uchar)
    x75id2      DMPSX75ID    (uchar)
    x75id3      DMPSX75ID    (uchar)
    x75id4      DMPSX75ID    (uchar)
    x75id5      DMPSX75ID    (uchar)
    x75id6      DMPSX75ID    (uchar)
(i) rpoa_senddel  DMBOOL       (enum: 1)
(j) rpoa_rcvdel  DMBOOL       (enum: 1)
(k) tni_state   DMTNISTATE   (enum: 2)
(l) cugscrn_alw  DMBOOL       (enum: 1)
```

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```
    iiclist_id  DMPSIIC_CN   (ushort: 11)
    prov_flags  DMULONG      (ulong)
          Stored Tuple Layout     PSX75TRK
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               | |             | |             | |             | |
 0 |  pvc_h_lcn    |*|   l_lcn_in  |*|   h_lcn_in  |*|  l_lcn_out  |*|
   |---------------+---------------+---------------+---------------|
   |               | |             | |             | |       |       |
 4 |  h_lcn_out    |*|   l_lcn_2w  |*|   h_lcn_2w  |a|   b   |   c   |
   |---------------+---------------+---------------+---------------|
   |     |     |   |       |       |   |           |               |
 8 |  d  |  e  |***|   f   |   g   | h |***********|     x75id1    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
12 |     x75id2    |     x75id3    |     x75id4    |     x75id5    |
   |---------------+---------------+---------------+---------------|
   |               | | |   | |     |                       |       |
16 |     x75id6    |i|j| k |l|*****|      iiclist_id       |*********|
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |                          prov_flags                           |
   |---------------+---------------+---------------+---------------|
      ( 24 bytes )
```

## 4. Population Rules for RLpsx75trk

**Relation Description**
This relation defines the X.75/X.75' level 3 data on a trunk member basis.

Important tuple links to tuples in RLpsx75trk are:

```
RLpsx75trk    <---RLpstrunks    via (grpnum)
RLpsx75trk    <---RLpsl3trkg    via (grpnum)
```

Beginning with the 5E8 software release the *5ESS*®-2000 switch may have up to 255 X.75' packet switching trunk groups. This will allow for direct X.75' connection to another ISDN switch (either a *5ESS*®-2000 switch or another vendor's ISDN switch) without tandeming through the PPSN. The multiple X.75' trunk group capability will also allow X.75' to X.75' transit sub-network switching. The tandem trunk groups will require the other switch to either be a *5ESS*®-2000 switch with the 5E8 software release or anther vendors switch that is compliant with Bellcore TR-301, Issue 2. This feature will also allow each *5ESS*®-2000 switch to have multiple X.75' trunk groups to another sub-network (PPSN or ISDN) within the LATA using proper routing tables.

The 5E8 software release also adds the ability for each *5ESS*®-2000 switch to have multiple X.75 trunk groups to an IEC/VAN using proper routing tables.
Note: The user must be aware that with the ability to provision 255 X.75 and 255 X.75' trunk groups, the limit of X.75'/X.75 trunks which can have PVCs provisioned (255) may be easily reached. The 255 PVC limit is a result of the limit on the gateway link ID.

**Attribute: ph_number**

**Fullname:** PH number

**Attribute Description** PH number for X.75/X.75' trunk.

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**Attribute: ph_cn**

**Fullname:** PH channel number

**Attribute Description** PH channel number of the given X.75/X.75' trunk.

If the port is an X.75 or X.75' trunk and the PH is of type PH2 then ph_cn must be 0.
If the port is an X.75 or X.75' trunk and the PH is of type PH3 or PH4 then ph_cn may be (0,4,8...20) in even multiples of four as long as all members on a given PH3 or PH4 are of the same trunk level 2 profile and all of the ports are equipped on the same SM. It is recommended that a maximum of 4 X.75' or X.75 trunk members be assigned to a given PH3 or PH4.

HARDWARE CONVERSION NOTE:
If the PH3 or PH4 is to be converted to a PH2 only 1 member may be assigned to the PH3 or PH4 and the 'ph_cn' attribute must equal 0 otherwise the conversion will be blocked!

**Attribute: pvc_h_lcn**

**Fullname:** PVC high logical channel number

**Attribute Description** This attribute contains the highest logical channel number (LCN) assignable to PVCs. A value of 0 implies no PVCs.

**Attribute: l_lcn_in**

**Fullname:** Lowest LCN number assignable to one-way incoming call requests

**Attribute Description** This attribute signifies the lowest logical channel number (LCN) that can be assigned only to call requests INCOMING to the switch from the remote STE on an X.75 or X.75' trunk.

**Attribute: h_lcn_in**

**Fullname:** Highest LCN number assignable to one-way incoming call requests

**Attribute Description** This attribute signifies the highest logical channel number (LCN) that can be assigned only to call requests INCOMING to the switch from the remote STE on an X.75 or X.75' trunk.

**Attribute: l_lcn_out**

**Fullname:** Lowest LCN number assignable to one-way outgoing call requests

**Attribute Description** This attribute signifies the lowest logical channel number (LCN) that can be assigned only to call requests OUTGOING from the switch to the remote STE on an X.75 or X.75' trunk.

**Attribute: h_lcn_out**

**Fullname:** Highest LCN number assignable to one-way outgoing call requests

**Attribute Description** This attribute signifies the highest logical channel number (LCN) that can be assigned only to call requests OUTGOING from the switch to the remote STE on an X.75 or X.75' trunk.

**Attribute: l_lcn_2w**

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**Fullname:** Lowest LCN number assignable to two way call requests

**Attribute Description** This attribute signifies the lowest logical channel number (LCN) that can be assigned to call requests INCOMING or OUTGOING on an X.75/X.75' trunk.

**Attribute: h_lcn_2w**

**Fullname:** Highest LCN number assignable to two way call requests

**Attribute Description** This attribute signifies the highest logical channel number (LCN) that can be assigned to call requests INCOMING or OUTGOING on an X.75/X.75' trunk.

**Attribute: h_to_l**

**Fullname:** high to low indicator

**Attribute Description** Indicates whether the LCN assignment is made from high to low (DBYES) or low to high (DBNO).
For X.75 and X.75' trunks there is no dependency of this attribute on the RLpstrk_l2.lapbA attribute; they are independent of each other.

**Attribute: in_thrucl**

**Fullname:** Incoming default throughput class

**Attribute Description** Default throughput class to be used for incoming X.75 and X.75' call requests. The value of PSTHNULL is not allowed. The default value is PS9600BPS. If the throughput class utility (0x00000002) in the prov_flags attribute is disabled this default value is the only value allowed.

**Attribute: out_thrucl**

**Fullname:** Outgoing throughput default class

**Attribute Description** Default throughput class to be used for outgoing X.75 and X.75' call requests. The value of PSTHNULL is not allowed. The default value is PS9600BPS. If the throughput class utility (0x00000002) in the prov_flags attribute is disabled this default value is the only value allowed.

**Attribute: in_wndsz**

**Fullname:** Incoming window size

**Attribute Description** Default window size to be used for incoming X.75 and X.75' call requests. The value of WDWNULL is not allowed. The default value is WDWSZ2. If the window size utility (0x00000004) in the prov_flags attribute is disabled this default value is the only value allowed.

**Attribute: out_wndsz**

**Fullname:** Outgoing window size

**Attribute Description** Default window size to be used for outgoing X.75 and X.75' call requests. The value of WDWNULL is not allowed. The default value is WDWSZ2. If the window size utility (0x00000004) in the prov_flags attribute is disabled this default value is the only value allowed.

**Attribute: in_pktsz**

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**Fullname:** Incoming packet size

**Attribute Description** Default packet size to be used for incoming X.75' and X.75 call requests. The valid values are PKTSZ128 and PKTSZ256. The default value is PKTSZ128. If the packet size utility (0x00000008) in the prov_flags attribute is disabled this default value is the only value allowed.

**Attribute: out_pktsz**

**Fullname:** Outgoing packet size

**Attribute Description** Default packet size to be used for outgoing X.75' and X.75 call requests. The valid values are PKTSZ128 and PKTSZ256. The default value is PKTSZ128. If the packet size utility (0x00000008) in the prov_flags attribute is disabled this default value is the only value allowed.

**Attribute: util_faclen**

**Fullname:** X.75 / X.75' Trunk Utility Facility Field Length

**Attribute Description** This attribute is used to provision the length of the X.75 or X.75' utility/Facility field. The valid enumerations for this attribute are BASIC and EXTENDED with the default value being BASIC.

If the value of the attribute is BASIC then the length of the utility field may not exceed 63 octets and the length of the facility field may not exceed 109 octets in the call request packet.

If the value of the attribute is EXTENDED then the length of the utility field could exceed 63 octets and/or the length of the facility field could exceed 109 octets in the call request packet provided that the length of the combined facility and utility fields does not exceed 172 octets. If the length exceeds 172 octets the call will be cleared.

The domain enumeration NONE is used only for RC and ODA and will be represented on their view as blank (null) for non X.75/X.75' trunk group members. This enumeration is not valid in the relation.

**Attribute: x75id[*]**

**Fullname:** X.75 Trunk Interface Identification Number

**Attribute Description** This attribute is used to define the X.75 trunk member interface identifier. The 12 digit BCD number is used to populate the X.75 trunk identifier utility which is provisioned by enabling the prov_flag attributes X75ID utility flag. The first 11 digits are assigned by the user to uniquely identify the X.75 trunk member used in a call.

There are no provisioning restrictions or checks for the value entered in this attribute (except that the low order four bits of the attribute x75id6 for X.75 trunk members must be 0000 (that is, the 12th BCD digit which is not part of the 11 digit ID). The valid X.75 trunk member entries for the digits are 0-9 (hex a-f not allowed)). The attribute is defined with an alternate value in the RLpsx75trk.G file to allow PS code to access these 12 BCD digits in a six element array (x75id[6]) where the 12th digit is 0 (seen previously).

The interface identification number will be used to determine appropriate billing for certain packet calls in certain network configurations in which the called address is not sufficient to indicate the interexchange carrier or other X.75 connected entity to be billed.

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A default value of 000000000000 is used for X.75 trunk member tuples to arbitrarily distinguish between an interface which was used in the call and the recording of 'no interface used'.

These attributes are not valid for X.75' trunks and should be populated as fffffffffffff for them. The RC and ODA views will display 'blank' instead of fffffffffffff.

**Attribute: rpoa_senddel**

**Fullname:** X.75 Trunk Interface RPOA Delete Before Sending

**Attribute Description** The attribute is used to specify if the X.75 RPOA selection utility defined in a call request packet (CRP) at the X.75 interface should be deleted before the CRP is transmitted to the remote X.75 signaling terminal (STE) over the X.75 trunk.

If the attribute is provisioned to DBYES then the outgoing RPOA selection utility must be provisioned either before or after the utility marker.

When the attribute is DBYES, the RPOA selection utility will be deleted before the X.75 CRP is transmitted. When the attribute is DBNO (do not delete), then the switch passes the RPOA Selection utility or the sequence of RPOA selection utilities in the transmitted X.75 CRP.

The default value for X.75 trunks is DBYES and DBNO for X.75' trunks (not valid for X.75' trunks).

**Attribute: rpoa_rcvdel**

**Fullname:** X.75 Trunk Interface RPOA Delete when Received

**Attribute Description** The attribute is used to specify if the X.75 RPOA selection utility is to be deleted when received in an X.75 call request packet (CRP) from the remote X.75 signaling terminal (STE) over an X.75 trunk.

If the attribute is provisioned to DBYES then the incoming RPOA selection utility must be provisioned either before or after the utility marker.

When the attribute is DBYES, then the switch X.75 STE discards the RPOA selection Utility, or the first RPOA selection utility in case of a sequence of RPOA selection utilities, when received in an X.75 CRP if the contents of the RPOA parameter field identifies the network of the *5ESS* ®-2000 switch ISDN subnetwork. When the attribute is DBNO (do not delete), then the switch X.75 STE clears the X.75 virtual CRP received from the remote X.75 STE.

The default value for X.75 trunks is DBYES and DBNO for X.75' trunks (not valid for X.75' trunks).

**Attribute: tni_state**

**Fullname:** X.75 Trunk Transit Network Identification Unique / Shared

**Attribute Description** The attribute is used to provision the X.75 transit network identification (TNI) mode as either unique or shared. The TNI mode values are used to detect looping within the network.

Each X.75 trunk member may have a TNI mode of unique (TNIUNIQ), shared (TNISHARD) or no TNI mode (TNINONE). The TNI mode is used when the switch receives an IP Call Request Packet that contains the ATNIC facility or a sequence of ATNIC facilities.

The enumerations TNIUNIQ and TNISHARD designate if the TNI is to be used in either a 'unique' mode or in a 'shared' mode as described in the following paragraphs:

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If the trunk member is in unique mode and a call request packet (CRP) is received from IP which does not contain an instance of an ATNIC facility with the parameter field value matching a TNI value provisioned in the RLpstni_id relation, the *5ESS*®-2000 switch must insert the TNIC utility into the X.75 CRP to be sent. However, if the CRP received from IP has a ATNIC facility that does match a TNI value provisioned as above the call will be cleared.

If the trunk member is in shared mode and a (CRP) is received from IP which does not contain an instance of an ATNIC facility with the parameter field value matching a TNI value provisioned in the RLpstni_id relation, the *5ESS*®-2000 switch must insert the TNIC utility into the X.75 CRP. However, if the CRP received from IP has an ATNIC facility that does match a TNI value provisioned as above the *5ESS*®-2000 switch must not insert an additional instance of the TNIC utility into the X.75 CRP to be sent.

The relation RLpstni_id contains a list of 0 to 20 shared TNIs that are valid for this switch (the list always exists and when empty it is considered a null list). This list is not coupled with the provisioning of this attribute and is used when processing an incoming IP CRP as mentioned previously.

When the X.75 trunk member has no TNI (TNINONE) then existing pre-5E8 software release call processing applies (if there are any duplicate TNIs in the call request packet (CRP), the call is cleared). Up to seven unique TNIs may be present in the CRP.

The default value for both X.75 and X.75' trunks is TNINONE. The default gives pre 5E8 treatment for X.75 trunks and not valid for X.75' trunks.

**Attribute: cugscrn_alw**

**Fullname:** X.75 Trunk Interface Closed User Group Screening

**Attribute Description** The attribute is used to enable (DBYES) or disable (DBNO) closed user group screening on X.75 trunk members. The attribute is not used by X.75' trunk members and should be set to DBNO for them. If this attribute is DBYES, there must be a valid CUG list ID entered in the iiclist_id attribute.
If this attribute is DBYES, then every member of this trunk group must also subscribe to either the CUG indication utility or the CUG/OA utility using the prov_flag attribute. Whenever a new trunk member is added to a trunk group with CUG screening enabled, the new member must have one of the two previous utilities enabled. If the attribute is DBNO then no screening is performed on call request packets at the X.75 trunk interface.

This attribute is also populated in RLpsl3trkg. The value in this attribute for every member of a given trunk group must be exactly the same as the value for the group in RLpsl3trkg.

**Attribute: iiclist_id**

**Fullname:** X.75 Trunk Interface Closed User Group Screening List ID Number

**Attribute Description** The attribute is used to assign a closed user group (CUG) list ID number to the trunk group. The CUG List ID must be a valid ID number defined in RLpscug_iic and may be shared with other trunk groups. The attribute is not used by X.75' trunk groups and should be set to 0 for them. The valid range for X.75 trunk groups is 0-1600.

If this attribute is 0 then no screening is allowed (cugscrn_alw attribute must be set to DBNO (zero indicates no list assigned). If the attribute value is 1-1600 then a list is assigned but the cugscrn_alw attribute may be either DBYES or DBNO (allows for an on-off toggle).

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This attribute is also populated in RLpsl3trkg. The value in this attribute for every member of a given trunk group must be exactly the same as the value for the group in RLpsl3trkg.

**Attribute: prov_flags**

**Fullname:** X.75/X.75' utility provisioning flags.

**Attribute Description** This attribute is an unsigned long bit map which contains a '1' bit set if the corresponding utility is supported on the trunk as follows:
Note: As of the 5E8 Software Release the default value for all X.75' Utilities is on (enabled). Also, the utilities that have Before and After flags default to Before.

```
UTILITIES:
----------
```

(1) Call identifier (0x00000001L)
(2) Throughput class indicator (0x0000002L)
(3) Window size indicator (0x00000004L)
(4) Packet size indicator (0x00000008L)
(5) Fast select indicator (0x00000010L)
(6) Reverse charge indicator (0x00000020L)
(7) CUG indicator (0x00000040L)
(8) CUG with outgoing access indicator (0x00000080L)
(9) Called line address modified indicator (0x00000100L)
(10) Clearing network (CNIC) indicator (0x00000200L)
(11) Transit network (TNIC) indicator (0x00000400L)
(12) Utility marker (0x00000800L)
(13) TDI supported before utility marker (0x00001000L) (default)
(14) TDI supported after utility marker (0x00002000L) - (not allowed for X.75')
(15) TDS indicator supported before utility marker (0x00004000L) (default)
(16) TDS indicator supported After utility marker (0x00008000L) - (not allowed for X.75')
(17) Tariff indicator supported before utility marker (0x00010000L) (default)
(18) Tariff indicator supported after utility marker (0x00020000L) - (not allowed for X.75')
(19) Incoming RPOA indicator supported before utility marker (0x00040000L) (default)
(20) Incoming RPOA indicator supported after utility marker (0x00080000L) - (not allowed for X.75')
(21) Outgoing RPOA indicator supported before utility marker (0x00100000L) (default)
(22) Outgoing RPOA indicator supported after utility marker (0x00200000L) - (not allowed for X.75')
(23) Access characteristics indicator (0x00400000L) - (not allowed for X.75)
(24) Transit sub-network count utility indicator (0x00800000L) - (not allowed for X.75)
(25) X.75 trunk identification (X75ID) utility indicator (0x01000000L) - (not allowed for X.75)
(26) Clearing sub-network ID utility indicator (0x02000000L) - (not allowed for X.75)
(27) Protocol conversion permissions utility indicator (0x04000000L) - (not allowed for X.75)
(28) Network user identification (NUI) supported before utility marker (default) (0x08000000L)
(29) Network user identification (NUI) supported after utility marker (0x10000000L)
(30) Interexchange carrier pre-select utility indicator (0x20000000L) -

Note: For the 6 utilities which can be provisioned on an X.75 trunk either before or after the utility marker (that is, TDI, TDS, tariff, incoming RPOA, outgoing RPOA and NUI), these individual utilities cannot be supported both before and after. For example, we cannot provision TDI both before and after the utility marker. Also, by provisioning one of the two you are also activating the utility (provisioning it 'ON'). If neither before or after are provisioned (provisioned is defined here as the switch personnel physically entering 'N' for both fields on the view) then the utility is inactive (provisioned to 'OFF').

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```
LCN RANGE CHECKS FOR X.75 and X.75' Trunks:
-------------------------------------------
For X.75 trunks:
If RLpsx75trk.h_to_l = DBYES then
  { if  ( l_lcn_in = h_lcn_in = l_lcn_out = h_lcn_out=
      l_lcn_2w =h_lcn_2w =0 ) then
         1 <= pvc_h_lcn <= 127
    else
      pvc_h_lcn <  l_lcn_in
      l_lcn_in  <= h_lcn_in
      h_lcn_in  <  l_lcn_2w
      l_lcn_2w  <= h_lcn_2w
      h_lcn_2w  <  l_lcn_out
      l_lcn_out <= h_lcn_out <= 127
```

with the understanding that if any category of channels (incoming, 2-way or outgoing) does not have any channels (low=high=0) then the starting (low) and ending (high) numbers must be zero and should be left out of the preceding inequality rule.

}

Else (RLpsx75trk.h_to_l = DBNO) then

```
  { if  ( l_lcn_in = h_lcn_in = l_lcn_out = h_lcn_out=
      l_lcn_2w =h_lcn_2w =0 ) then
         1 <= pvc_h_lcn <= 127
    else
      pvc_h_lcn <  l_lcn_out
      l_lcn_out <= h_lcn_out
      h_lcn_out <  l_lcn_2w
      l_lcn_2w  <= h_lcn_2w
      h_lcn_2w  <  l_lcn_in
      l_lcn_in  <= h_lcn_in <= 127
```

with the understanding that if any category of channels (incoming, 2-way or outgoing) does not have any channels (low=high=0) then the starting (low) and ending (high) numbers must be zero and should be left out of the previous inequality rule.

**Defines:**
"db/DMpsiic_cn.h"

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# PU_LTM

## 1. Description

This relation is for logical termination ports which have the PU_terminating feature(s).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 144000 |
| expected number of tuples | 112 |
| density | 4 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| foldtype | DBGC31 |

## 3. Field Layout

```
PU_LTM      relid = 913   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     t_pred_q    DMUNS16      (ushort)
     ltm_idx     DMLTM_IDX    (ulong: 16)  <--- key
     feat_id     DMFID        (ushort: 10)  <--- key
 (a) ltm_type    DMLTM_TYPE   (enum: 1)  <--- key
     lead_module  DMMODULE     (ushort: 8)  <--- key
         User, Compacted and Stored Tuple Layout PU_LTM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |            t_pred_q            |            ltm_idx            |
    |---------------+---------------+---------------+---------------|
    |                   | |         |                |              |
  4 |      feat_id      |a|*********|  lead_module   |**************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLpu_ltm

**Relation Description**
This relation is for logical termination ports which have the PU_terminating feature(s).

```
SPECIAL ENTRY FOR EITHER PARAMETER ASSOCIATED WITH BFG
------------------------------------------------------
```

For BFG purposes, this put is an either type. Therefore, BFG pseudo port tuple will be created for the SM where any BFG port members reside. Individual port tuples may or may not be created for BFG assigned ports.

BFG, capability G268, is intended to improve recent change response time and provide for SM memory reduction. It permits the creation of groups of BRCS features and parameters, and utilization of these groups by call processing. New group parameter relations will not be created, but will be populated in the existing relations. The group parameters will be identified by lead_module = zero (see lead_module for details).

This relation has now two types of tuples distinguished primarily by ltm_type.

1. The first type is the existing RLpu_ltm tuples which are group partitioned and remain unchanged (ltm_type = LTM_ISDN or LTM_OTHER).

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2. The second type is the BFG group parameter tuple and is also group partitioned. This tuple is accessed by keys lead_module(equal to zero), ltm_index and ltm_type = LTM_ISDN. The BFG group parameter tuples were put in this relation to avoid creation of a new relation and minimize changes in the existing relation.

The following is a list of valid service classes for LTports (DNs) assigned this feature:

```
LINES
-----
FC_INDVDL
FC_ATTENDANT
FC_4WIRE_INDV
FC_PBX
FC_ISDN
FC_ISATND
```

**Attribute: ltm_type**

**Fullname:** Logical termination type.

**Attribute Description** Logical termination index type.
If LTM_ISDN, verify existence of tuple in RLis_line with this lead_module and ltm_idx.
Note: If RLpu_ltm.lead_module is equal to zero and RLpu_ltm.ltm_type is equal to LTM_ISDN the tuple in the relation refers to BRCS feature grouping (BFG) group parameter tuples. See special entry for group parameter associated with BFG.

**Attribute: lead_module**

**Fullname:** Lead module.

**Attribute Description** Lead module.

**Attribute: ltm_idx**

**Fullname:** logical termination index.

**Attribute Description** Logical termination index.
Note: Attribute ltm_idx has a domain range that starts with 0. In this relation, the ltm_idx range starts with 1. As discussed in RLrc_qidx, the existence of an index implies the value 1 or greater. If no index is defined, RLrc_qidx(ltm_type) would contain an index value of 0 and no tuple would exist in this relation. Therefore, ltm_idx must be greater than 0 in this relation.

```
If lead_module is zero, the ltm_idx range starts with 256.
If RLpu_ltm.lead_module is equal to zero then
a tuple must exist in RLis_line relation such
that :
if fc_porttyp.servclass = FC_ISDN (or FC_ISATND),
RLpu_ltm.ltm_idx = RLis_line.bfgid
if fn_porttyp.sevcclass = FC_INDVDL, then
RLpu_ltm.ltm_idx = RLfc_line.bfgid
```

**Attribute: feat_id**

**Fullname:** Feature ID.

**Attribute Description** Pickup terminating constructed feature ID.

(1) Verify existence of tuple in RLdn_feats with same key (lead_module, ltm_type, ltm_idx). The

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RLdn_feats tuple must have an attribute, fid such that (mftype of MFPUT + RLpu_ltm.feat_id) = RLdn_feats.ftent[n].fid. See explanation following 3).

(2) Verify existence of tuple in RLput_cf with mftype of MFPUT + RLpu_ltm.feat_id as key value. See explanation following 3).

(3) Call pickup terminating features including directed call pickup with/without barge-in may be assigned to multi-line hunt group members.

Note: MFPUT is defined in db/DMmftype.G. Adding mftype to feat_id before reading RLdn_feats or RLput_cf is necessary because the feat_id in this relation is the unique 10 bits of the FID, it does not include the mftype. Whereas, RLdn_feats and RLput_cf store the entire FID (mftype + 10 unique bits).

**Attribute: t_pred_q**

**Fullname:** Terminating predesignated queue.

**Attribute Description** Terminating predesignated queue.

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# PU_PORT

## 1. Description

This relation is common for lines which have PU_originating and PU_terminating.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 57600 |
| expected number of tuples | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| density | 25 |
| foldtype | DBGC31 |

## 3. Field Layout

```
PU_PORT     relid = 469   DBSTATIC   DBACC_HASH  DBPRAM    LPFPFG  RCMAP
     lport       DMLPORT      (ushort: 16)     <--- key
     pusel_q1    DMUNS16      (ushort)
     pusel_q2    DMUNS16      (ushort)
     pusel_q3    DMUNS16      (ushort)
     pusel_q4    DMUNS16      (ushort)
     feat_id     DMFID        (ushort: 10)     <--- key
 (a) dpd_dntr    DMDIGCNT     (uchar: 4)
 (b) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key
     dir_pu_dn   DMLOCDN      (struct)     <--- compacted
         noc         DMNOC        (ushort: 14)
         digits      DMLOCDIG     (array [ 4 ] of char )
            User Tuple Layout   PU_PORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             lport             |            pusel_q1           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            pusel_q2           |            pusel_q3           |
    |---------------+---------------+---------------+---------------|
    |                               |                   |       |   |
  8 |            pusel_q4           |      feat_id      |   a   | b |
    |===============+========== dir_pu_dn ==========+===============|
    |   |                           |                               |
 12 |***|            noc            |             digits            |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 16 |             digits            |*******************************|
    |===============+===============+===============+===============|
       ( 20 bytes )
     lport       DMLPORT      (ushort: 16)     <--- key
     pusel_q1    DMUNS16      (ushort)
     pusel_q2    DMUNS16      (ushort)
     pusel_q3    DMUNS16      (ushort)
```

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```
    pusel_q4    DMUNS16      (ushort)
    feat_id     DMFID        (ushort: 10)     <--- key
(a) dpd_dntr    DMDIGCNT     (uchar: 4)
(b) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key
    dir_pu_dn   DMCLOCDN     (struct)     <--- compacted
        noc         DMNOC        (ushort: 14)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
         Compacted Tuple Layout    PU_PORT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |              lport            |            pusel_q1           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |            pusel_q2           |            pusel_q3           |
   |---------------+---------------+---------------+---------------|
   |                               |                       |       |   |
 8 |            pusel_q4           |      feat_id      |   a   | b |
   |===============+========== dir_pu_dn ==========+===============|
   |   |                           |       |       |       |       |
12 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
   |===============+===============+===============+===============|
   |                                                               |
16 |***************************************************************|
   |---------------+---------------+---------------+---------------|
     ( 20 bytes )
    lport       DMLPORT      (ushort: 16)     <--- key
    pusel_q1    DMUNS16      (ushort)
    pusel_q2    DMUNS16      (ushort)
    pusel_q3    DMUNS16      (ushort)
    pusel_q4    DMUNS16      (ushort)
    feat_id     DMFID        (ushort: 10)     <--- key
(a) dpd_dntr    DMDIGCNT     (uchar: 4)
(b) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key
    dir_pu_dn   DMCLOCDN     (struct)     <--- compacted
        noc         DMNOC        (ushort: 14)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
          Stored Tuple Layout      PU_PORT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |              lport            |            pusel_q1           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |            pusel_q2           |            pusel_q3           |
   |---------------+---------------+---------------+---------------|
```

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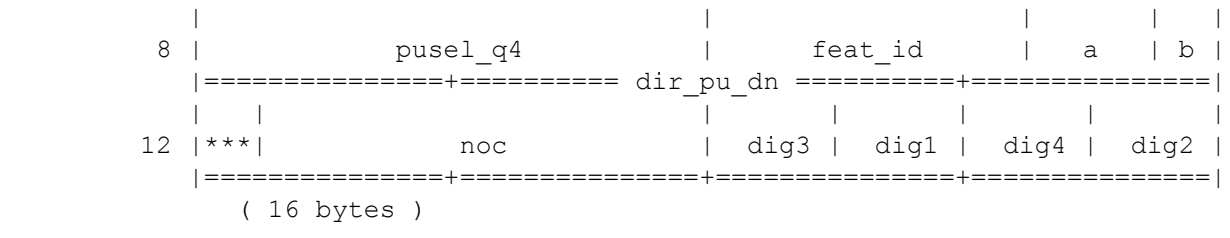


## 4. Population Rules for RLpu_port

**Relation Description**
Pick Up features port.

```
SPECIAL ENTRY FOR GROUP PARAMETER ASSOCIATED WITH BFG
-----------------------------------------------------
```

For BFG purposes, this puo is an either type. Therefore, BFG lport tuple will be created for the sm where any BFG lport members reside. Individual lport tuples may or may not be created for BFG assigned lports. BRCS Feature Grouping (BFG), capability G268, is intended to improve recent change response time and provide for sm memory reduction. it permits the creation of groups of brcs features and parameters, and the utilization of these groups by call processing. BFG group parameter relations will not be created, but will be populated in existing lport keyed relations. Identifying BFG group parameters will be accomplished via use of an lpt_type key field set to LPT_BFG and use of the LPORT key field to contain the BFG group ID. This concept is used to avoid creation of new database relations. Distribution: group partitioned (if LPT_TYPE=LPT_BFG) or sm partitioned This relation now has two types of tuples.

(1) THE FIRST TYPE is the existing tuples which are SM-PARTITIONED and remain unchanged. They are keyed by lpt_type != LPT_BFG and lport, and no change has been made to this key or data.

(2) THE SECOND TYPE is the BFG GROUP PARTITIONED TUPLE associated with features in a BRCS Feature Group (BFG), having lpt_type=LPT_BFG, and the bfgid populated in the lport field.

***NOTE:*** There is a limit of 30 BRCS features for each bfgid.

**Attribute: lport**

**Fullname:** Logical port.

**Attribute Description** Logical port of the User being assigned the BRCS features. If lpt_type != LPT_BFG, RLpu_port.lport must equal RLfc_line.lport. The keys to RLfc_line are: RLfc_line.port = RLlpt_pt(RLpu_port.lport,RLpu_port.lpt_type).port RLfc_line.party = RLlpt_pt(RLpu_port.lport,RLpu_port.lpt_type).party If lpt_type = LPT_BFG, then RLpu_port.lport contains a BFG group ID. If lpt_type != LPT_BFG, there must be a tuple in RLfc_porttyp keyed by the RLlpt_pt(lport,lpt_type).port. If lpt_type = LPT_BFG, the must be a tuple in RLbfgmatch keyed by the bfgid contained in RLpu_port.lport. Verify existence of tuple in RLfc_line and RLfc_porttyp keyed by RLlpt_pt(lport,lpt_type). RLfc_porttyp..servclass must be FC_INDVDL, FC_4WIRE_INDV, FC_ATTENDANT, FC_ISDN or FC_ISATND

**Attribute: lpt_type**

**Fullname:** Logical port type.

**Attribute Description** Logical port type of the User. RLpu_port.lpt_type must be identical to RLfc_line.lpt_type if the User is for an analog or ISDN terminal. The keys for RLfc_line are: RLfc_line.port = RLlpt_pt(RLpu_port.lport,RLpu_port.lpt_type).port RLfc_line.party =

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RLlpt_pt(RLpu_port.lport,RLpu_port.lpt_type).party If lpt_type=LPT_BFG, then there must be a tuple in RLbfgmatch keyed by the bfgid contained in RLpu_port.lport.

**Attribute: feat_id**

**Fullname:** PU feature id.

**Attribute Description** Pickup originating constructed feature id.

(1) Verify existence of tuple in RLtrmfeats with same key. The RLtrmfeats tuple must have an attribute, fid such that (mftype of MFPUO + RLpu_port.feat_id) = RLtrmfeats.ftent[n].fid. See the following NOTE.

(2) Verify existence of tuple in RLpuo_cf with mftype of MFPUO + RLpu_port.feat_id as key value. See the following NOTE.

***NOTE:*** MFPUO is defined in db/DMmftype.G. Adding mftype to feat_id before reading RLtrmfeats or RLpuo_cf is necessary because the feat_id in this relation is the unique 10 bits of the FID, it does not include the mftype. Whereas, RLtrmfeats and RLpuo_cf store the entire FID (mftype + 10 unique bits).

(3) Verify only one MFPUO + RLpu_port.feat_id can have RLpuo_cf.initiate = CD_CAL assigned to each user.

(4) Verify only one MFPUO + RLpu_port.feat_id can have RLpuo_cf.initiate = LDSPK_PG assigned to each user.

(5) Verify only one MFPUO + RLpu_port.feat_id can have RLpuo_cf.initiate = PUIPRDQ assigned to each user.

(6) Verify only one MFPUO + RLpu_port.feat_id can have RLpuo_cf.initiate = BPARK assigned to each user.

(7) Verify only one MFPUO + RLpu_port.feat_id can have RLpuo_cf.initiate = DPARK assigned to each user.

(8) Verify only one MFPUO + RLpu_port.feat_id can have RLpuo_cf.initiate = ANS_BACK assigned to each user.

(9) Verify only one MFPUO + RLpu_port.feat_id can have RLpuo_cf.initiate = RTRV assigned to each user.

**Attribute: dir_pu_dn**

**Fullname:** Direct Pick Up local directory number.

**Attribute Description** Direct Pickup local DN that can be accessed by code. If dir_pu_dn.noc != 0, then RLpuo_cf assigned to this user shall have RLpuo_cf.initiate = PUIPREDN. The directed call pickup originator and terminator must be in the same terminal group.

**Attribute: dir_pu_dn.noc**

**Fullname:** Normalized office code(NOC) of the directory number

**Attribute Description** The NOC of the directory number corresponding to the directed call pick up DN.

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**Attribute: dir_pu_dn.digits**

**Fullname:** last 4 digits of the directory number

**Attribute Description** Last 4 digits of the DN corresponding to the directed call pick up DN.

**Attribute: dpd_dntr**

**Fullname:** unused attribute

**Attribute Description** unused attribute - defaulted to zero

**Attribute: pusel_q1**

**Fullname:** PU queu.

**Attribute Description** The queue (group) that the customer can originate to pick up. If pusel_q1 >=2 and <= 65534 then

(1) RLpuo_cf.pu_selq != PUQNONE

**Attribute: pusel_q2**

**Fullname:** PU queu.

**Attribute Description** The queue (group) that the customer can originate to pick up. If pusel_q2 >= 2 and <= 65534 then

(1) RLpuo_cf.pu_selq != PUQNONE or PU1QS

(2) RLpu_port.pusel_q1 >= 2 and <= 65534

**Attribute: pusel_q3**

**Fullname:** PU queu.

**Attribute Description** The queue (group) that the customer can originate to pick up. If pusel_q3 >= 2 and <= 65534 then

(1) RLpuo_cf.pu_selq = PU3QS or PU4QS

(2) RLpu_port.pu_selq1 >= 2 and <= 65534

(3) RLpu_port.pu_selq2 >= 2 and <= 65534

**Attribute: pusel_q4**

**Fullname:** PU queu.

**Attribute Description** The queue (group) that the customer can originate to pick up. If pusel_q4 >= 2 and <= 65534 then

(1) RLpuo_cf.pu_selq = PU4QS

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(2) RLpu_port.pu_selq1 >= 2 and <= 65534

(3) RLpu_port.pu_selq2 >= 2 and <= 65534

(4) RLpu_port.pu_selq3 >= 2 and <= 65534

**Defines:** "db/DMfid.h"

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# PUG_SM

## 1. Description

This relation indicates on which SM a given call pickup group is being queued on.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65535 |
| expected tuples | 157 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| density | 61 |
| relation type | DBSTATIC |
| trigger function | FCtrpug_sm |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
PUG_SM      relid = 1076  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     queue       DMUNS16      (ushort)  <--- key
     size        DMUNS16      (ushort)
     qmod        DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout PUG_SM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |             queue              |              size             |
    |---------------+---------------+---------------+---------------|
    |                |                                              |
  4 |      qmod      |**********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLpug_sm

**Relation Description**
This relation indicates on which SM a given call pickup group is being queued on.

**Attribute: size**

**Fullname:** Group size

**Attribute Description** Number of members in a pickup group.

**Attribute: queue**

**Fullname:** Pickup Group Number

**Attribute Description** Call pickup group number.

**Attribute: qmod**

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**Fullname:** Queuing Module.

**Attribute Description** Queuing module for the given pickup group.

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# PUO_CF

## 1. Description

Call pick up originating constructed feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head page size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| ks key store | AUTO |

## 3. Field Layout

```
PUO_CF      relid = 470   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     feat_id     DMMCC_FID    (ushort)  <--- key
 (a) initiate    DMPU_INIT    (enum: 4)
 (b) pu_selq     DMPU_SELQ    (enum: 3)
 (c) allow_barg_in  DMBOOL       (enum: 1)
     actvn       DMMC_ACTYP   (enum: 3)
 (d) dctvn       DMMC_DCTYP   (enum: 2)
 (e) allow_chg_dp_d  DMBOOL       (enum: 1)
     cal_sel     DMMCCLFLTR   (struct)
 (f)     intratg     DMBOOL       (enum: 1)
 (g)     intraoff    DMBOOL       (enum: 1)
 (h)     interoff    DMBOOL       (enum: 1)
 (i)     pf          DMBOOL       (enum: 1)
 (j)     attndnt     DMBOOL       (enum: 1)
     bill_typ    DMMC_BILL    (struct)
 (k)     flat        DMBOOL       (enum: 1)
 (l)     usefreq1    DMBOOL       (enum: 1)
 (m)     usefreq2    DMBOOL       (enum: 1)
 (n)     usefreq3    DMBOOL       (enum: 1)
 (o)     usefreq4    DMBOOL       (enum: 1)
 (p)     actchrg     DMBOOL       (enum: 1)
 (q)     dactchrg    DMBOOL       (enum: 1)
 (r)     duration    DMBOOL       (enum: 1)
 (s)     change      DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout PUO_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |       |     | |     |   | |   |
  0 |            feat_id            |   a   |  b  |c|actvn| d |e|***|
    |===============+=========== cal_sel ===========+===============|
    | | | | | |                                                     |
  4 |f|g|h|i|j|*****************************************************|
    |===============+==========  bill_typ ==========+===============|
    | | | | | | | | | |                                             |
```

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```
8 |k|l|m|n|o|p|q|r|s|****************************************|
  |===============+===============+===============+==============|
     ( 12 bytes )
```

## 4. Population Rules for RLpuo_cf

**Relation Description**
This relation is not to be populated by international.

**Attribute: feat_id**

**Fullname:** Call pickup originating constructed feature ID

**Attribute Description** Identifies mcc constructed feature ID.

**Attribute: initiate**

**Fullname:** Call Pickup initiate component

**Attribute Description** Is used in the construction process to determine which option of PUO feature is being selected.

**Attribute: allow_barg_in**

**Fullname:** Barge-in component

**Attribute Description** Allow or disallow bridge onto existing call. 3-way, or n-way connection.

**Attribute: allow_chg_dp_d**

**Fullname:** Change directed pickup telephone number

**Attribute Description** Allow customer control to change the predesignated specified TELNO if PUO was constructed with PUIPREDN of initiate component.

**Attribute: cal_sel**

**Fullname:** Pickup call selection component

**Attribute Description** Used to indicate the type(s) of calls this party can remove from the pickup queue call pickup (CPU), or can pickup by means of directed pickup nonbarge-in (DPN), or directed pickup with barge-in (DPU), or can busy verify by means of busy verify or can be overridden by means of emergency override.

**Attribute: cal_sel.intratg**

**Fullname:** Intra-terminal group

**Attribute Description** Intra-terminal group.

**Attribute: cal_sel.intraoff**

**Fullname:** Intra-office

**Attribute Description** Intra-office.

**Attribute: cal_sel.interoff**

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**Fullname:** Inter-office **Attribute Description** Inter-office.

**Attribute: cal_sel.pf**

**Fullname:** Private facility

**Attribute Description** Private facility.

**Attribute: cal_sel.attndnt**

**Fullname:** Attendant

**Attribute Description** Attendant.

**Attribute: pu_selq**

**Fullname:** Pickup queue selection component

**Attribute Description** Customer can indicate number of queue (group) he would like to be able to pickup from.

**Attribute: actvn**

**Fullname:** Activation method type

**Attribute Description** Indicates the method of activating modular communications capability features. The two attributes (actions), activation and deactivation, together determine the customer options for the feature. Note: any additions or deletions of enumerations from this base domain must be reported to the administrator of function RCbfg_act which is located in the 'rc' subsystem, module RCutil.

**Attribute: dctvn**

**Fullname:** Deactivation method type

**Attribute Description** Indicates the method of deactivating modular communications capability features. The two attributes (actions), activation and deactivation, together determine the customer options for the feature. Note: any additions or deletions of enumerations from this base domain must be reported to the administrator of function RCbfg_act which is located in the 'rc' subsystem, module RCutil.

**Attribute: bill_typ**

**Fullname:** Charging type

**Attribute Description** Boolean structure indicating the combination of several types of billing. In each case a DBYES indicates that type of billing is applicable and DBNO indicates it is not.

**Attribute: bill_typ.flat**

**Fullname:** Flat rate - no usage sensitive charge

**Attribute Description** Flat rate.

**Attribute: bill_typ.usefreq1**

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**Fullname:** Usage frequency charge - for use of event 1

**Attribute Description** Usage frequency charge.

**Attribute: bill_typ.usefreq2**

**Fullname:** Usage frequency charge - for use of event 2

**Attribute Description** Usage frequency charge.

**Attribute: bill_typ.usefreq3**

**Fullname:** Usage frequency charge - for use of event 3

**Attribute Description** Usage frequency charge.

**Attribute: bill_typ.usefreq4**

**Fullname:** Usage frequency charge - for use of event 4

**Attribute Description** Usage frequency charge.

**Attribute: bill_typ.actchrg**

**Fullname:** Usage charge for activation

**Attribute Description** Usage charge for activation.

**Attribute: bill_typ.dactchrg**

**Fullname:** Usage charge for deactivation

**Attribute Description** Usage charge for deactivation.

**Attribute: bill_typ.duration**

**Fullname:** Usage charge for duration of use

**Attribute Description** Usage charge for duration of use.

**Attribute: bill_typ.change**

**Fullname:** Usage charge for change of parameter

**Attribute Description** Usage charge for change of parameter.

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# PUO_ROUT

## 1. Description

This relation associates an origination port and action with a pick up port.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 131062 |
| expected number of tuples | 9 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 8 |
| permutation type | un_perm |

## 3. Field Layout

```
PUO_ROUT    relid = 536   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     lport       DMLPORT      (ushort: 16)     <--- key
 (a) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key
     pu_act      DMMCACTN     (enum: 9)     <--- key
     port_ls_cc  DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout   PUO_ROUT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |   |                |         |
  0 |             lport              | a |      pu_act    |*********|
    |===============+=========  port_ls_cc =========+===============|
    |                                |                |               |
  4 |             member             |****************|     module    |
    |===============+===============+================+===============|
       ( 8 bytes )
```

## 4. Population Rules for RLpuo_rout

**Relation Description**
This relation associates a origination port and action with a pick up port.

**Attribute: lport**

**Fullname:** logical port of the user

**Attribute Description** Logical port of the User being assigned the BRCS features.
RLpuo_rout.lport must equal
RLfc_line.lport (if a line) or RLfc_trunk.lport (if a trunk).
The keys for RLfc_line & Rlfc_trunk are:
RLfc_line.port = RLlpt_pt(RLpuo_rout.lport,RLpuo_rout.lpt_type).port
RLfc_line.party = RLlpt_pt(RLpuo_rout.lport,RLpuo_rout.lpt_type).party
RLfc_trunk.port = RLlpt_pt(RLpuo_rout.lport,RLpuo_rout.lpt_type).port
There must be a tuple in RLfc_porttyp keyed by the RLlpt_pt(lport,lpt_type).port. Verify existence of tuple in RLfc_line and RLfc_porttyp keyed by RLlpt_pt(lport,lpt_type).port. RLfc_porttyp.servclass

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must be FC_INDVDL, FC_4WIRE_INDV, FC_ISDN, FC_ISATND, or FC_ATTENDANT.

**Attribute: lpt_type**

**Fullname:** logical port type of the user assigned CPUO

**Attribute Description** Logical port type of the User assigned CPUO.

```
Range: LPT_ISDN (for ISDN Users)
or LPT_OTHER (for analog BRCS lines and trunks)
RLpuo_rout.lpt_type must be identical to RLfc_line.lpt_type
if the User is for an analog or ISDN terminal.
The keys for RLfc_line are:
RLfc_line.port = RLlpt_pt(RLpuo_rout.lport,RLpuo_rout.lpt_type).port
RLfc_line.party = RLlpt_pt(RLpuo_rout.lport,RLpuo_rout.lpt_type).party
If the User is a BRCS trunk, then lpt_type=LPT_OTHER.
```

**Attribute: pu_act**

**Fullname:** pick up action

**Attribute Description** Identifies action to be taken.

```
Range of values:
    ACN_LSP (loudspeaker paging)
    ACN_CCL (code calling)
Dependencies:
Enum. Value      Dependency
ACN_LSP          RLpuo_cf.initiate = LDSPK_PG
ACN_CCL          RLpuo_cf.initiate = CD_CAL
```

**Attribute: port_ls_cc**

**Fullname:** port id of loudspeaker speaker (LSP) of code calling (CCL) trunk that is to be accessed

**Attribute Description** Port ID of (LSP) or (CCL) trunk that is to be accessed. Dependencies:

(1) Verify that a tuple exists in
`RLfc_porttyp.servclass = FC_PFCPE, when`
`pu_act =ACN_LSP (Loud Speaker Paging), or`
`pu_act =ACN_CCL (Code Call)`

(2) for SERVCLASS to be appropriate the trunk must be in the right type trunk group.

**Attribute: port_ls_cc.member**

**Fullname:** port name of a port

**Attribute Description** Port name of a port

**Attribute: port_ls_cc.module**

**Fullname:** the sm number that this port terminates on

**Attribute Description** The SM number that this port terminates on.

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# PUO_TM

## 1. Description

This relation contains the call pick up originating constructed feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| expected number of tuples | 31 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store option | AUTO |

## 3. Field Layout

```
PUO_TM      relid = 537   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     feat_id     DMMCC_FID    (ushort) <--- key, not stored
     pusel_q1    DMUNS16      (ushort)
     pusel_q2    DMUNS16      (ushort)
     pusel_q3    DMUNS16      (ushort)
     pusel_q4    DMUNS16      (ushort)
 (a) initiate    DMPU_INIT    (enum: 4)
 (b) dpd_dntr    DMDIGCNT     (uchar: 4)
 (c) pu_selq     DMPU_SELQ    (enum: 3)
     actvn       DMMC_ACTYP   (enum: 3)
 (d) dctvn       DMMC_DCTYP   (enum: 2)
 (e) allow_barg_in  DMBOOL       (enum: 1)
 (f) allow_chg_dp_d  DMBOOL       (enum: 1)
     cal_sel     DMMCCLFLTR   (struct)
 (g)     intratg     DMBOOL       (enum: 1)
 (h)     intraoff    DMBOOL       (enum: 1)
 (i)     interoff    DMBOOL       (enum: 1)
 (j)     pf          DMBOOL       (enum: 1)
 (k)     attndnt     DMBOOL       (enum: 1)
     bill_typ    DMMC_BILL    (struct)
 (l)     flat        DMBOOL       (enum: 1)
 (m)     usefreq1    DMBOOL       (enum: 1)
 (n)     usefreq2    DMBOOL       (enum: 1)
 (o)     usefreq3    DMBOOL       (enum: 1)
 (p)     usefreq4    DMBOOL       (enum: 1)
 (q)     actchrg     DMBOOL       (enum: 1)
 (r)     dactchrg    DMBOOL       (enum: 1)
 (s)     duration    DMBOOL       (enum: 1)
 (t)     change      DMBOOL       (enum: 1)
     port_ls_cc  DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     dir_pu_dn   DMLOCDN      (struct) <--- compacted
         noc         DMNOC        (ushort: 14)
         digits      DMLOCDIG     (array [ 4 ] of char )

            User Tuple Layout    PUO_TM
```

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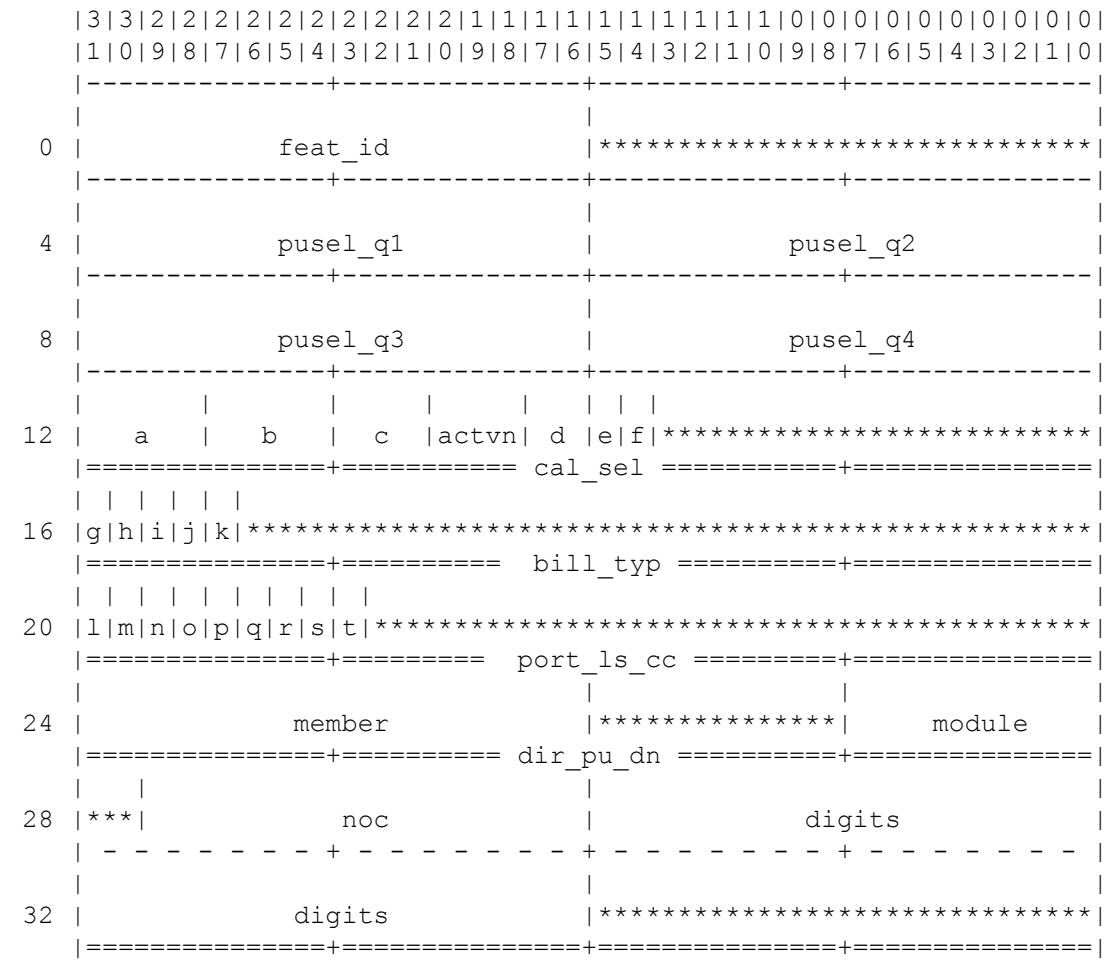


```
    feat_id     DMMCC_FID    (ushort) <--- key, not stored
    pusel_q1    DMUNS16      (ushort)
    pusel_q2    DMUNS16      (ushort)
    pusel_q3    DMUNS16      (ushort)
    pusel_q4    DMUNS16      (ushort)
(a) initiate    DMPU_INIT    (enum: 4)
(b) dpd_dntr    DMDIGCNT     (uchar: 4)
(c) pu_selq     DMPU_SELQ    (enum: 3)
    actvn       DMMC_ACTYP   (enum: 3)
(d) dctvn       DMMC_DCTYP   (enum: 2)
(e) allow_barg_in  DMBOOL       (enum: 1)
(f) allow_chg_dp_d  DMBOOL       (enum: 1)
    cal_sel     DMMCCLFLTR   (struct)
(g)     intratg     DMBOOL       (enum: 1)
(h)     intraoff    DMBOOL       (enum: 1)
(i)     interoff    DMBOOL       (enum: 1)
(j)     pf          DMBOOL       (enum: 1)
(k)     attndnt     DMBOOL       (enum: 1)
    bill_typ    DMMC_BILL    (struct)
(l)     flat        DMBOOL       (enum: 1)
(m)     usefreq1    DMBOOL       (enum: 1)
(n)     usefreq2    DMBOOL       (enum: 1)
```

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```
 (o)     usefreq3    DMBOOL       (enum: 1)
 (p)     usefreq4    DMBOOL       (enum: 1)
 (q)     actchrg     DMBOOL       (enum: 1)
 (r)     dactchrg    DMBOOL       (enum: 1)
 (s)     duration    DMBOOL       (enum: 1)
 (t)     change      DMBOOL       (enum: 1)
     port_ls_cc  DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     dir_pu_dn   DMCLOCDN     (struct) <--- compacted
         noc         DMNOC        (ushort: 14)
         dig3        DMUNS4       (ushort: 4)
         dig1        DMUNS4       (ushort: 4)
         dig4        DMUNS4       (ushort: 4)
         dig2        DMUNS4       (ushort: 4
)
          Compacted Tuple Layout     PUO_TM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            feat_id            |*******************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            pusel_q1           |            pusel_q2           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            pusel_q3           |            pusel_q4           |
    |---------------+---------------+---------------+---------------|
    |       |       |     |     |   | | |                           |
 12 |   a   |   b   |  c  |actvn| d |e|f|***************************|
    |===============+=========== cal_sel ===========+===============|
    | | | | | |                                                     |
 16 |g|h|i|j|k|*****************************************************|
    |===============+==========  bill_typ ==========+===============|
    | | | | | | | | | |                                             |
 20 |l|m|n|o|p|q|r|s|t|*********************************************|
    |===============+=========  port_ls_cc =========+===============|
    |                               |               |               |
 24 |             member            |***************|     module    |
    |===============+========== dir_pu_dn ==========+===============|
    |   |                           |       |       |       |       |
 28 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
    |===============+===============+===============+===============|
    |                                                               |
 32 |***************************************************************|
    |---------------+---------------+---------------+---------------|
      ( 36 bytes )
    pusel_q1    DMUNS16      (ushort)
    pusel_q2    DMUNS16      (ushort)
    pusel_q3    DMUNS16      (ushort)
    pusel_q4    DMUNS16      (ushort)
 (a) initiate    DMPU_INIT    (enum: 4)
 (b) dpd_dntr    DMDIGCNT     (uchar: 4)
```

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```
(c) pu_selq     DMPU_SELQ    (enum: 3)
    actvn       DMMC_ACTYP   (enum: 3)
(d) dctvn       DMMC_DCTYP   (enum: 2)
(e) allow_barg_in  DMBOOL       (enum: 1)
(f) allow_chg_dp_d  DMBOOL       (enum: 1)
    cal_sel     DMMCCLFLTR   (struct)
(g)     intratg     DMBOOL       (enum: 1)
(h)     intraoff    DMBOOL       (enum: 1)
(i)     interoff    DMBOOL       (enum: 1)
(j)     pf          DMBOOL       (enum: 1)
(k)     attndnt     DMBOOL       (enum: 1)
    bill_typ    DMMC_BILL    (struct)
(l)     flat        DMBOOL       (enum: 1)
(m)     usefreq1    DMBOOL       (enum: 1)
(n)     usefreq2    DMBOOL       (enum: 1)
(o)     usefreq3    DMBOOL       (enum: 1)
(p)     usefreq4    DMBOOL       (enum: 1)
(q)     actchrg     DMBOOL       (enum: 1)
(r)     dactchrg    DMBOOL       (enum: 1)
(s)     duration    DMBOOL       (enum: 1)
(t)     change      DMBOOL       (enum: 1)
    port_ls_cc  DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    dir_pu_dn   DMCLOCDN     (struct) <--- compacted
        noc         DMNOC        (ushort: 14)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
          Stored Tuple Layout   PUO_TM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            pusel_q1           |            pusel_q2           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |            pusel_q3           |            pusel_q4           |
   |---------------+---------------+---------------+---------------|
   |       |       |     |     |   | | |                           |
 8 |   a   |   b   |  c  |actvn| d |e|f|***************************|
   |===============+===========  cal_sel  ===========+===============|
   | | | | | |                                                     |
12 |g|h|i|j|k|*****************************************************|
   |===============+==========  bill_typ  ==========+===============|
   | | | | | | | | | |                                             |
16 |l|m|n|o|p|q|r|s|t|*********************************************|
   |===============+=========  port_ls_cc  =========+===============|
   |                               |                               |
20 |             member            |***************|     module    |
   |===============+==========  dir_pu_dn  ==========+===============|
   |   |                           |       |       |       |       |
24 |***|            noc            |  dig3 |  dig1 |  dig4 |  dig2 |
```

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```
|===============+===============+===============+===============|
   ( 28 bytes )
```

## 4. Population rules for RLpuo_tm

### Relation Description

```
        call pickup originating constructed feature
        call pickup originating constructed feature
       The following preconstructed features are being added for
        Call Park.
        /CPBPARK -  Basic Call Park
                ACTYP           ACTNONE
                DACTYP          DCTNONE
                INITIATE        BPARK
                BARGTIN         NO
                CHGPUTEL        NO
                AMAC            FLAT
                SELQ            0
                ATTENDANT       Y
                INTRAOFC        Y
                INTRAGRP        Y
                INTEROFC        Y
                PFA             Y
                DIRPUDN         ______
                SELQ1           0
                SELQ2           0
                SELQ3           0
                SELQ4           0
                PORTLSCC        ------
        /CPDPARK -  Directed Call Park
                ACTYP           ACTNONE
                DACTYP          DCTNONE
                INITIATE        DPARK
                BARGTIN         NO
                CHGPUTEL        NO
                AMAC            FLAT
                SELQ            0
                ATTENDANT       Y
                INTRAOFC        Y
                INTRAGRP        Y
                INTEROFC        Y
                PFA             Y
                DIRPUDN         ______
                SELQ1           0
                SELQ2           0
                SELQ3           0
                SELQ4           0
                PORTLSCC        ------
        /CPRTRV -  Call Park Retrieve
                ACTYP           ACTNONE
                DACTYP          DCTNONE
                INITIATE        RTRV
                BARGTIN         NO
                CHGPUTEL        NO
```

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```
                AMAC            FLAT
                SELQ            0
                ATTENDANT       Y
                INTRAOFC        Y
                INTRAGRP        Y
                INTEROFC        Y
                PFA             Y
                DIRPUDN         ______
                SELQ1           0
                SELQ2           0
                SELQ3           0
                SELQ4           0
                PORTLSCC        ------
        /CPANSBK - Call Park Answer Back
                ACTYP           ACTNONE
                DACTYP          DCTNONE
                INITIATE        ANS_BACK
                BARGTIN         NO
                CHGPUTEL        NO
                AMAC            FLAT
                SELQ            0
                ATTENDANT       Y
                INTRAOFC        Y
                INTRAGRP        Y
                INTEROFC        Y
                PFA             Y
                DIRPUDN         ______
                SELQ1           0
                SELQ2           0
                SELQ3           0
                SELQ4           0
                PORTLSCC        ------
```

**Attribute:**
feat_id
**Fullname:**
call pickup originating constructed feature id
**Attribute Description:**
Identifies the MCC constructed feature id.

**Attribute:**
initiate
**Fullname:**
call pickup initiate component
**Attribute Description:**
used in the construction process to determine which option of PUO feature is being selected.

Dependencies:

| Enum. value | Dependency |
|---|---|
| _____ | _____ |

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| | |
|---|---|
| PUIPRDQ | 1) RLpuo_tm.allow_barg_in = DBNO<br>2) Rlpuo_tm.allow_chg_dp_d = DBNO<br>3) RLpuo_tm.pu_selq != PUQNONE |
| PUIDPUDL | 1) RLpuo_tm.pu_selq = PUQNONE<br>2) RLpuo_tm.allow_chg_dp_d = DBNO |
| PUIPREDN | 1) RLpuo_tm.pu_selq = PUQNONE |
| CD_CAL | 1) RLpuo_tm.allow_barg_in = DBNO<br>2) RLpuo_tm.allow_chg_dp_d = DBNO<br>3) RLpuo_tm.pu_selq = PUQNONE |
| LDSPK_PG | 1) RLpuo_tm.allow_barg_in = DBNO<br>2) RLpuo_tm.allow_chg_dp_d = DBNO<br>3) RLpuo_tm.pu_selq = PUQNONE |
| BSYVFY | 1) RLpuo_tm.allow_barg_in = DBYES<br>2) RLpuo_tm.pu_selq = PUQNONE<br>3) RLpuo_tm.allow_chg_dp_d = DBNO |
| EMEROVR | 1) RLpuo_tm.allow_barg_in = DBYES<br>2) RLpuo_tm.pu_selq = PUQNONE<br>3) RLpuo_tm.allow_chg_dp_d = DBNO |
| BPARK | 1) RLpuo_cf.allow_barg_in must_equal DBNO<br>2) RLpuo_cf.allow_chg_dp_d must_equal DBNO<br>3) RLpuo_cf.pu_selq must_equal PUQNONE<br>If a feature with the BPARK initiate value is assigned to an analog line, custom ISDN line, or ISDN attendant line, the Secured Feature ID (SFID) 124 (Call Park) must be on. This value is blocked from being assigned to a national ISDN line. |
| DPARK | 1) RLpuo_cf.allow_barg_in must_equal DBNO<br>2) RLpuo_cf.allow_chg_dp_d must_equal DBNO<br>3) RLpuo_cf.pu_selq must_equal PUQNONE<br>If a feature with the DPARK initiate value is assigned to an analog line, custom ISDN line, or ISDN attendant line, the Secured Feature ID (SFID) 124 (Call Park) must be on. If assigned to a national ISDN line, Secured Feature ID (SFID) 258 (National ISDN Call Park) must be on. |
| RTRV | 1) RLpuo_cf.allow_barg_in must_equal DBNO<br>2) RLpuo_cf.allow_chg_dp_d must_equal DBNO<br>3) RLpuo_cf.pu_selq must_equal PUQNONE<br>If a feature with the RTRV initiate value is assigned to an analog line, custom ISDN line, or ISDN attendant line, the Secured Feature ID (SFID) 124 (Call Park) must be on. This value is blocked from being assigned to a national ISDN line. |
| ANSBACK | 1) RLpuo_cf.allow_barg_in must_equal DBNO<br>2) RLpuo_cf.allow_chg_dp_d must_equal DBNO<br>3) RLpuo_cf.pu_selq must_equal PUQNONE<br>If a feature with the ANSBACK initiate value is assigned to an analog line, custom ISDN line, or ISDN attendant line, the Secured Feature ID (SFID) 124 (Call Park) must be on. If assigned to a national ISDN line, Secured Feature ID (SFID) 258 (National ISDN Call Park) must be on. |

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**Attribute:**
allow_barg_in
**Fullname:**
barge in component
**Attribute Description:**
Allow or disallow bridge onto existing call.
3-way, or n-way connection.
Range of value: DBYES (allow to barge in)
DBNO (disallow to barge in)
Dependencies:
If DBYES then RLpuo_tm.initiate = IDPUDL, IPREDN,
BSYVFY or EMEROVR

**Attribute:**
allow_chg_dp_d
**Fullname:**
change directed pickup TELNO
**Attribute Description:**
Allow customer control to change the predesignated
specified TELNO if PUO was constructed with PUIPREDN
of initiate component.
Range of value: DBYES (allow change)
DBNO (do not allow change)
Dependencies:
if DBYES then RLpuo_tm.initiate = PUIPREDN
NOTE: for issue 5E2(1) only DBNO allowed

**Attribute:**
cal_sel
**Fullname:**
pickup call selection component
**Attribute Description:**
Used to indicate the type(s) of calls this party
can remove from the pickup queue Call Pickup (CPU),
or can pickup by means of Directed Pickup Nonbarge-In
(DPN), or Directed Pickup with Barge-In (DPU), or can
busy verify by means of Busy Verify or can be
overridden by means of Emergency Override.
Dependencies: At least one value must be DBYES.

**Attribute:**
cal_sel.intratg
**Fullname:**
intra-terminal group
**Attribute Description:**
for intra-terminal group

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**Attribute:**
cal_sel.intraoff
**Fullname:**
intra-office
**Attribute Description:**
for intra-office

**Attribute:**
cal_sel.interoff
**Fullname:**
interoffice
**Attribute Description:**
for interoffice

**Attribute:**
cal_sel.pf
**Fullname:**
private facilities
**Attribute Description:**
for private facilities

**Attribute:**
cal_sel.attndnt
**Fullname:**
attendant
**Attribute Description:**
for attendant

**Attribute:**
pu_selq
**Fullname:**
pickup queue selection component
**Attribute Description:**
Customer can indicate number of queue (group) they would like to be able to pickup from.

Dependencies:

| Enum. value | Dependency |
|---|---|
| PUQNONE | 1) RLpuo_tm.initiate != PUIPRDQ |
| PU1QS | 1) RLpuo_tm.initiate = PUIPRDQ |
| | 2) RLpuo_tm.allow_barg_in = DBNO |
| | 3) RLpu_port.pusel_q1 >= 2 |
| PU2QS | 1) RLpuo_tm.initiate = PUIPRDQ |
| | 2) RLpuo_tm.allow_barg_in = DBNO |
| | 3) RLpu_port.pusel_q1 >= 2 |
| | 4) RLpu_port.pusel_q2 >= 2 |
| PU3QS | 1) RLpuo_tm.initiate = PUIPRDQ |
| | 2) RLpuo_tm.allow_barg_in = DBNO |

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| | |
|---|---|
| | 3) RLpu_port.pusel_q1 >= 2 |
| | 4) RLpu_port.pusel_q2 >= 2 |
| | 5) RLpu_port.pusel_q3 >= 2 |
| PU4QS | 1) RLpuo_tm.initiate = PUIPRDQ |
| | 2) RLpuo_tm.allow_barg_in = DBNO |
| | 3) RLpu_port.pusel_q1 >= 2 |
| | 4) RLpu_port.pusel_q2 >= 2 |
| | 5) RLpu_port.pusel_q3 >= 2 |
| | 6) RLpu_port.pusel_q4 >= 2 |

**Attribute:**
actvn
**Fullname:**
activation type
**Attribute Description:**
Indicates method of activating MCC features
Dependencies:

| Enum. value | Dependency |
|---|---|
| ACTNONE | 1) RLpuo_tm.dctvn = DCTNONE |
| | 2) RLpuo_tm.bill_typ.flat = DBYES |
| ACTCD | 1) RLpuo_tm.dctvn = DCTCD |

**Attribute:**
dctvn
**Fullname:**
deactivation type
**Attribute Description:**
Indicates method of deactivating MCC feature.
Dependencies:

| Enum. value | Dependency |
|---|---|
| DCTNONE | 1) RLpuo_tm.actvn = ACTNONE |
| | 2) RLpuo_tm.bill_typ.flat = DBYES |
| DCTCD | 1) RLpuo_tm.actvn = ACTCD |

**Attribute:**
bill_typ
**Fullname:**
charging type
**Attribute Description:**
Options available for charging.
Default value: FLAT
Dependencies: No dependencies

**Attribute:**
bill_typ.flat
**Fullname:**
flat rate

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**Attribute Description:**
for flat rate

**Attribute:**
bill_typ.usefreq1
**Fullname:**
usage frequency charge
**Attribute Description:**
for use of 'event' 1

**Attribute:**
bill_typ.usefreq2
**Fullname:**
usage frequency charge
**Attribute Description:**
for use of 'event' 2

**Attribute:**
bill_typ.usefreq3
**Fullname:**
usage frequency charge
**Attribute Description:**
for use of 'event' 3

**Attribute:**
bill_typ.usefreq4
**Fullname:**
usage frequency charge
**Attribute Description:**
for use of 'event' 4

**Attribute:**
bill_typ.actchrg
**Fullname:**
usage charge for activation
**Attribute Description:**
for activation

**Attribute:**
bill_typ.dactchrg
**Fullname:**
usage charge for deactivation
**Attribute Description:**
for deactivation

**Attribute:**

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bill_typ.duration
**Fullname:**
usage charge for duration of use
**Attribute Description:**
for duration of use

**Attribute:**
bill_typ.change
**Fullname:**
usage charge for change of parameter
**Attribute Description:**
for change of parameter

**Attribute:**
dir_pu_dn
**Fullname:**
direct PU local directory number
**Attribute Description:**
Direct Pickup local DN that can be accessed by code.
Range of values: Any DN serviced by
this office, (full directory no.)

Dependencies:
If dir_pu_dn.noc != 0 then RLpuo_tm assigned to this port
shall have RLpuo_tm.initiate = PUIPREDN.

**Attribute:**
dir_pu_dn.noc
**Fullname:**
Normalized office code(NOC) of the directory number
**Attribute Description:**
The NOC of the directory number corresponding to the directed
call pick up DN.

**Attribute:**
dir_pu_dn.digits
**Fullname:**
last 4 digits of the directory number
**Attribute Description:**
Last 4 digits of the DN corresponding to the directed
call pick up DN.

**Attribute:**
dpd_dntr
**Fullname:**
unused attribute
**Attribute Description:**
unused attribute - defaulted to zero.

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**Attribute:**
pusel_q1
**Fullname:**
selected 1 queue
**Attribute Description:**
The queue (group) that the customer can originate to pick up.
Range of values: 0, or 2 to 65534.
2 thru 65534 valid when constructing RLpuo_tm only

Dependency:
If pusel_q1 >=2 and <= 65534
1) RLpuo_tm.pu_selq != PUQNONE

**Attribute:**
pusel_q2
**Fullname:**
selected two queues
**Attribute Description:**
The queue (group) that the customer can originate to pick up.
Range of values: 0, or 2 to 65534
2 thru 65534 valid when constructing RLpuo_tm only
Dependency:
If pusel_q2 >=2 and <= 65534 then
1) RLpuo_tm.pu_selq != PUQNONE or PU1QS
2) RLpu_port.pusel_q1 >=2 <= 65534

**Attribute:**
pusel_q3
**Fullname:**
selected three queues
**Attribute Description:**
The queue (group) that the custom can originate to pickup.
Range of values: 0, or 2 to 65534.
2 thru 65534 valid when constructing RLpuo_tm only
Dependency:
If pusel_q3 >=2 and <= 65534
1) RLpuo_tm.pu_selq = PU3QS or PU4QS
2) RLpu_port.pu_selq1 >= 2 and <= 65534
3) RLpu_port.pu_selq2 >= 2 and <= 65534

**Attribute:**
pusel_q4
**Fullname:**
selected four queues
**Attribute Description:**

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```
        The queue (group) that the customer can originate
        to pickup.
        Range of values:   0, or 2 to 65534
        2 thru 65534 valid when constructing RLpuo_tm only
        Dependency: If  pusel_q4  >=2  and  <= 65534 then
        1) RLpuo_tm.pu_selq = PU4QS
        2) RLpu_port.pusel_q1 >=2  and  <= 65534
        3) RLpu_port.pusel_q2 >=2  and  <= 65534
        4) RLpu_port.pusel_q3 >=2  and  <= 65534
```

**Attribute:**
port_ls_cc
**Fullname:**
trunk that is to be accessed
**Attribute Description:**

```
        Port ID of Loudspeaker Paging (LSP) or Code Calling
        (CCL) trunk that is to be accessed.  This attribute
        is divided into sub-attributes port.member and
        port.module.  The structure members are:
                1. member (DMport):  Port name of a port
                2. module (DMmodule):  The SM number that
                           this port terminates on
        Range of Values: 0 (zero), or
                1. member: unsigned short (0-65535)
                2. module: unsigned short (1-255)
        Dependencies:
        1) Verify that a tuple exists in
           RLfc_porttyp.servclass = FC_PFCPE,  when
           pu_act = ACN_LSP (Loudspeaker paging) or
           pu_act = ACN_CCL (Code Calling).
        Note: for SERVCLASS to be appropriate the trunk must
        be in the right type trunk group.
```

**Attribute:**
port_ls_cc.member
**Fullname:**
port name of a port
**Attribute Description:**
see port_ls_cc description

**Attribute:**
port_ls_cc.module
**Fullname:**
SM number
**Attribute Description:**
The SM number that this port terminates on

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# PUT_CF

## 1. Description

Call pick up terminating constructed feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head page size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| ks key store | DBNO |

## 3. Field Layout

```
PUT_CF      relid = 471   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     feat_id     DMMCC_FID    (ushort)     <--- key, not stored
     mw_brgfid   DMMCC_FID    (ushort)
 (a) fea_fun     DMPU_FEAFN   (enum: 3)
 (b) bg_in_tone  DMMC_TONE    (enum: 3)
 (c) org_trm_fl  DMPU_OTFL    (enum: 2)
     actvn       DMMC_ACTYP   (enum: 3)
 (d) dctvn       DMMC_DCTYP   (enum: 2)
     pty_flt     DMMCCLFLTR   (struct)
 (e)     intratg     DMBOOL       (enum: 1)
 (f)     intraoff    DMBOOL       (enum: 1)
 (g)     interoff    DMBOOL       (enum: 1)
 (h)     pf          DMBOOL       (enum: 1)
 (i)     attndnt     DMBOOL       (enum: 1)
     bill_typ    DMMC_BILL    (struct)
 (j)     flat        DMBOOL       (enum: 1)
 (k)     usefreq1    DMBOOL       (enum: 1)
 (l)     usefreq2    DMBOOL       (enum: 1)
 (m)     usefreq3    DMBOOL       (enum: 1)
 (n)     usefreq4    DMBOOL       (enum: 1)
 (o)     actchrg     DMBOOL       (enum: 1)
 (p)     dactchrg    DMBOOL       (enum: 1)
 (q)     duration    DMBOOL       (enum: 1)
 (r)     change      DMBOOL       (enum: 1)
         User and Compacted Tuple Layout     PUT_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            feat_id            |*******************************|
    |---------------+---------------+---------------+---------------|
    |                               |     |     |   |     |   |     |
  4 |           mw_brgfid           |  a  |  b  | c |actvn| d |*****|
    |===============+=========== pty_flt ===========+===============|
    | | | | | |                                                     |
```

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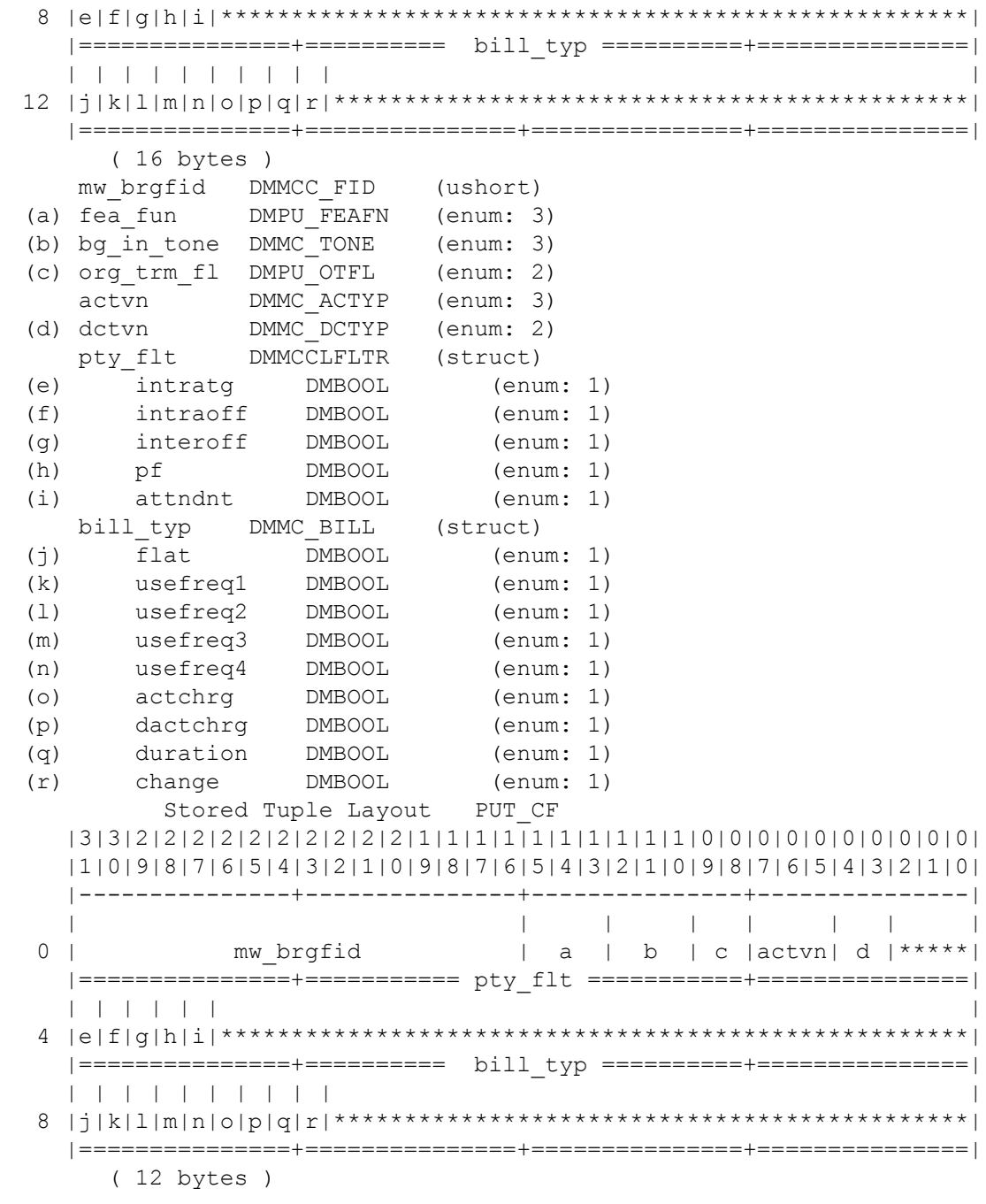


## 4. Population Rules for RLput_cf

**Relation Description**
Pick Up Termination constructed feature.

Call pick up terminating constructed feature.

**Attribute: feat_id**

**Fullname:** Pick Up Termination feature Id.

**Attribute Description** MCC Feature ID for Call Pickup constructed feature ID.

**Attribute: mw_brgfid**

**Fullname:** Multiway bridge feature id.

**Attribute Description** Constructed feature id of multiway feature to which this call pick up terminating feature can bridge. If mw_brgfid > 0, verify existence of the tuple in RLmwcf with the rightmost 10 bits of this attribute as the key value. This is necessary because RLmwcf only stores the unique field of a MW FID, whereas this relation has mftype of MFMWY + 10 bit unique field of MW FID stored.

```
and
if RLfc_porttyp.servclass = FC_ISDN or
                    FC_ISATND then
RLmwcf.epis_fr_pu = DBYES else
RLmwcf.epfr_pu = DBYES,
and
RLmwcf.o3_tg_fl = RLmwcf.o3_interfl = DBYES
RLmwcf.o3_intrafl = RLmwcf.o3_pf_fl = DBYES
RLmwcf.o3_attfl = DBYES
and
RLmwcf.a3_attfl   = RLput_cf.ptyflt.attndnt
RLmwcf.a3_tg_fl   = RLput_cf.ptyflt.intratg
RLmwcf.a3_intrafl = RLput_cf.ptyflt.intraoff
RLmwcf.a3_interfl = RLput_cf.ptyflt.interoff
RLmwcf.a3_pf_fl   = RLput_cf.ptyflt.pf
```

**Attribute: fea_fun**

**Fullname:** feature function.

**Attribute Description** To select the pickup terminating option desired.

```
        CAL_PU (call pickup)
        DIR_PU (directed pickup non-Barg-In )
        DIR_PU_BRG (with barge-in option selected)
        HDIR_PU_BRG (with barge-in on held call
        option selected)
        TBSYVFY (busy verify)
        TEMEROVR (emergency override)
     Enum.value   Dependency
     ----------   ----------
     CAL_PU       1) RLput_cf.org_trm_fl = PUFL_NONE
                  2) RLput_cf.bg_in_tone = TN_NONE
                  3) RLpu_ltm.t_pred_q >=2  and  <= 65534
     DIR_PU       1) RLput_cf.org_trm_fl = PUFL_NONE
                  2) RLput_cf.bg_in_tone = TN_NONE
     DIR_PU_BRG   1) RLput_cf.mw_brgfid > 0
                     and if RLfc_porttyp.servclass == FC_ISDN
                         then RLmwcf.epis_fr_pu = DBYES
                         else RLmwcf.epfr_pu = DBYES
                  2) RLput_cf.org_trm_fl = ORG_CAL or
                         TERM_CAL or A_CAL_NFLT
                  3) RLput_cf.bg_in_tone = TNBEEP1
                  4) See NOTE Below
```

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NOTE: If fea_fun = HDIR_PU_BRG or DIR_PU_BRG, for a Call Pickup feature on a DN, then no other Call Pickup feature with fea_fun = HDIR_PU_BRG or DIR_PU_BRG may be assigned to that DN.

```
HDIR_PU_BRG  1) RLput_cf.mw_brgfid > 0
             2) RLfc_porttyp.servclass = FC_ISDN
             3) RLmwcf.epis_fr_pu = DBYES
             4) RLmwcf.epfr_pu = DBNO
             5) RLmwcf.xfer = ALW_XFER
             6) RLput_cf.org_trm_fl = ORG_CAL or
                    TERM_CAL or A_CAL_NFLT
             7) RLput_cf.bg_in_tone = TNBEEP1
             8) See NOTE Below
```

NOTE: If fea_fun = HDIR_PU_BRG or DIR_PU_BRG, for a Call Pickup feature on a DN, then no other Call Pickup feature with fea_fun = HDIR_PU_BRG or DIR_PU_BRG may be assigned to that DN.

```
TBSYVFY      1) RLput_cf.mw_brgfid > 0
                and if RLfc_porttyp.servclass == FC_ISDN
                   then RLmwcf.epis_fr_pu = DBYES
                   else RLmwcf.epfr_pu = DBYES
             2) RLput_cf.org_trm_fl = A_CAL_NFLT
             3) RLput_cf.bg_in_tone = TNBEEP1
TEMEROVR     1) RLput_cf.mw_brgfid > 0
                and if RLfc_porttyp.servclass == FC_ISDN
                   then RLmwcf.epis_fr_pu = DBYES
                   else RLmwcf.epfr_pu = DBYES
             2) RLput_cf.org_trm_fl = A_CAL_NFLT
             3) RLput_cf.bg_in_tone = TNBEEP1
```

**Attribute: pty_flt**

**Fullname:** Party filtering

**Attribute Description** Call pickup terminating party filtering component to determine if a call can be picked up or answered.

**Attribute: pty_flt.intratg**

**Fullname:** Intra terminal group.

**Attribute Description** Intra terminal group.

**Attribute: pty_flt.intraoff**

**Fullname:** Intra office.

**Attribute Description** Intra office.

**Attribute: pty_flt.interoff**

**Fullname:** Inter office.

**Attribute Description** Intera office.

**Attribute: pty_flt.pf**

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**Fullname:** Private Facility.

**Attribute Description** Private facility.

**Attribute: pty_flt.attndnt**

**Fullname:** attendant.

**Attribute Description** Attendant.

**Attribute: org_trm_fl**

**Fullname:** Originating Terminating filter.

**Attribute Description** Used by Directed Pickup with Barge-In (DPU) and Busy Verify and Emergency Override. Stable calls would be the call on which barge-in is being attempted.

| Enum. Value | Dependency |
|---|---|
| PUFL_NONE | 1) RLput_cf.fea_fun = CAL_PU or DIR_PU<br>2) RLput_cf.bg_in_tone = TN_NONE |
| ORG_CAL | 1) RLput_cf.bg_in_tone = TNBEEP1.<br>2) RLput_cf.fea_fun = DIR_PU_BRG<br>or HDIR_PU_BRG<br>3) RLmwcf.ot_3wyfl = ORIG or ALL |
| TERM_CAL | 1) RLput_cf.bg_in_tone = TNBEEP1.<br>2) RLput_cf.fea_fun = DIR_PU_BRG<br>or HDIR_PU_BRG<br>3) RLmwcf.ot_3wyfl = TERM or ALL |
| A_CAL_NFLT | 1) RLput_cf.bg_in_tone = TNBEEP1.<br>2) RLput_cf.fea_fun = DIR_PU_BRG,<br>HDIR_PU_BRG,<br>TBSYVFY or TEMEROVR<br>3) RLmwcf.ot_3wyfl = ALL |

**Attribute: bg_in_tone**

**Fullname:** Barge in tone.

**Attribute Description** barge in tone indicator.

(1) If tone indicator is TNBEEP1, then tone duration Y ms = 900 in RLpu_ltm.tone_durn and tone repetition interval X = 0 RLpu_ltm.tone_intvl.

(2) If tone indicator is TNBEEP1, then RLput_cf.FEAFUN=DIRPUBRG, TBSYVFY or TEMEROVR or HDIRPUBRG

**Attribute: bill_typ**

**Fullname:** Billing type.

**Attribute Description** Options available for charging. FLAT (no usage sensitive charge)

**Attribute: bill_typ.flat**

**Fullname:** Flat rate.

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**Attribute Description** Flat rate - no usage sensitive charge.

**Attribute: bill_typ.usefreq1**

**Fullname:** Frequent user 1.

**Attribute Description** Usage frequency charge - for use of event 1

**Attribute: bill_typ.usefreq2**

**Fullname:** Frequent user 2.

**Attribute Description** Usage frequency charge - for use of event 2

**Attribute: bill_typ.usefreq3**

**Fullname:** Frequent user 3.

**Attribute Description** Usage frequency charge - for use of event 3

**Attribute: bill_typ.usefreq4**

**Fullname:** Frequent user 4.

**Attribute Description** Usage frequency charge - for use of event 4

**Attribute: bill_typ.actchrg**

**Fullname:** Activation charge.

**Attribute Description** Usage charge for activation

**Attribute: bill_typ.dactchrg**

**Fullname:** Deactivation charge.

**Attribute Description** Usage charge for deactivation

**Attribute: bill_typ.duration**

**Fullname:** Duration.

**Attribute Description** Usage charge for duration of use

**Attribute: bill_typ.change**

**Fullname:** Change.

**Attribute Description** Usage charge for change of parameter

**Attribute: actvn**

**Fullname:** Activation.

**Attribute Description** Indicates method of activating MCC features

| Enum. value | Dependency |
|---|---|

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```
ACTNONE          1) RLput_cf.dctvn = DCTNONE
                 2) RLput_cf.bill_typ.flat = DBYES
ACTCD            1) RLput_cf.dctvn = DCTCD
```

**Attribute: dctvn**

**Fullname:** Deactivation.

**Attribute Description** Indicates method of deactivating MCC feature.

```
Enum. value      Dependency
-----------      ----------
DCTNONE          1) RLput_cf.actvn = ACTNONE
                 2) RLput_cf.bill_typ.flat = DBYES
DCTCD            1) RLput_cf.actvn = ACTCD
```

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# PUT_TM

## 1. Description

Call pick up terminating constructed feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| ks key store option | AUTO |

## 3. Field Layout

```
PUT_TM      relid = 538   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     feat_id     DMMCC_FID    (ushort)     <--- key
     mw_brgfid   DMMCC_FID    (ushort)
     t_pred_q    DMUNS16      (ushort)
 (a) fea_fun     DMPU_FEAFN   (enum: 3)
 (b) bg_in_tone  DMMC_TONE    (enum: 3)
 (c) org_trm_fl  DMPU_OTFL    (enum: 2)
     actvn       DMMC_ACTYP   (enum: 3)
 (d) dctvn       DMMC_DCTYP   (enum: 2)
     pty_flt     DMMCCLFLTR   (struct)
 (e)     intratg     DMBOOL       (enum: 1)
 (f)     intraoff    DMBOOL       (enum: 1)
 (g)     interoff    DMBOOL       (enum: 1)
 (h)     pf          DMBOOL       (enum: 1)
 (i)     attndnt     DMBOOL       (enum: 1)
     bill_typ    DMMC_BILL    (struct)
 (j)     flat        DMBOOL       (enum: 1)
 (k)     usefreq1    DMBOOL       (enum: 1)
 (l)     usefreq2    DMBOOL       (enum: 1)
 (m)     usefreq3    DMBOOL       (enum: 1)
 (n)     usefreq4    DMBOOL       (enum: 1)
 (o)     actchrg     DMBOOL       (enum: 1)
 (p)     dactchrg    DMBOOL       (enum: 1)
 (q)     duration    DMBOOL       (enum: 1)
 (r)     change      DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout PUT_TM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            feat_id            |           mw_brgfid           |
    |---------------+---------------+---------------+---------------|
    |                               |     |     |   |     |   |     |
  4 |            t_pred_q           |  a  |  b  | c |actvn| d |*****|
```

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```
    |===============+========== pty_flt ==========+===============|
    | | | | | |                                                   |
  8 |e|f|g|h|i|***************************************************|
    |===============+==========  bill_typ ==========+===============|
    | | | | | | | | |                                             |
 12 |j|k|l|m|n|o|p|q|r|*****************************************|
    |===============+===============+===============+===============|
       ( 16 bytes )
```

## 4. Population Rules for RLput_tm

**Relation Description**
Call pick up terminating constructed feature.

PRECONSTRUCTED DPUT FEATURES FOR ISDN DNs ONLY! NOTE: These preconstructed features must ONLY be assigned to ISDN DNs which are primary. These are the only preconstructed features in this poprule with this restriction.

```
/CPUIDT -  ISDN Call Pickup with Barge-In (excluding held
calls)
ACTVN           ACTNONE
DCTVN           DCTNONE
FEAFUN          DIRPUBRG
BARGTONE        BEEP1
OTFLT           ACALNFLT
AMAC            FLAT
MULTIWAY        /MWISPU
ATTENDANT       Y
INTRAOFC        Y
INTRAGRP        Y
INTEROFC        Y
PFA             Y
TPREDQ          ______
/CPUIDT2 -  ISDN Call Pickup with Barge-In (with xfer)
ACTVN           ACTNONE
DCTVN           DCTNONE
FEAFUN          DIRPUBRG
BARGTONE        BEEP1
OTFLT           ACALNFLT
AMAC            FLAT
MULTIWAY        /MWISPUH
ATTENDANT       Y
INTRAOFC        Y
INTRAGRP        Y
INTEROFC        Y
PFA             Y
TPREDQ          ______
/CPUIHDT -  ISDN Call Pickup with Barge-In (including held
calls)
ACTVN           ACTNONE
DCTVN           DCTNONE
FEAFUN          HDIRPUBRG
BARGTONE        BEEP1
OTFLT           ACALNFLT
AMAC            FLAT
```

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```
MULTIWAY        /MWISPUH
ATTENDANT       Y
INTRAOFC        Y
INTRAGRP        Y
INTEROFC        Y
PFA             Y
TPREDQ          ______
PRECONSTRUCTED DPN BLOCKING FEATURE
/CPBDNT -   Block DPN Terminating
ACTVN           AUTO
DCTVN           NONE
FEAFUN          DIRPU
BARGTONE        NONE
OTFLT           NONE
AMAC            FLAT
MULTIWAY        ______
ATTENDANT       N
INTRAOFC        N
INTRAGRP        N
INTEROFC        N
PFA             N
TPREDQ          ______"
```

**Attribute: feat_id**

**Fullname:** feature id

**Attribute Description** MCC Feature ID for Call Pickup constructed feature ID.

**Attribute: mw_brgfid**

**Fullname:** feature id of multiway feature

**Attribute Description** Constructed feature id of multiway feature to which this call pick up terminating feature can bridge.

```
Dependencies:
If mw_brgfid > 0, verify existence of the tuple in
RLmwcf with this key feat_id value
and
if RLfc_porttyp.servclass = FC_ISDN or
                            FC_ISATND then
RLmwcf.epis_fr_pu = DBYES else
RLmwcf.epfr_pu = DBYES,
and
RLmwcf.o3_tg_fl = RLmwcf.o3_interfl = DBYES
RLmwcf.o3_intrafl = RLmwcf.o3_pf_fl = DBYES
RLmwcf.o3_attfl = DBYES
and
RLmwcf.a3_attfl   = RLput_tm.pty_flt.attndnt
RLmwcf.a3_tg_fl   = RLput_tm.pty_flt.intratg
RLmwcf.a3_intrafl = RLput_tm.pty_flt.intraoff
RLmwcf.a3_interfl = RLput_tm.pty_flt.interoff
RLmwcf.a3_pf_fl   = RLput_tm.pty_flt.pf
```

**Attribute: fea_fun**

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**Fullname:** feature function component

**Attribute Description** To select the pickup terminating option desired.

```
Dependencies:
Enum.value      Dependency
----------      ----------
CAL_PU          1) RLput_tm.org_trm_fl = PUFL_NONE
                2) RLput_tm.bg_in_tone = TN_NONE
                3) RLpu_ltm.t_pred_q >=2  and  <= 65534
DIR_PU          1) RLput_tm.org_trm_fl = PUFL_NONE
                2) RLput_tm.bg_in_tone = TN_NONE
DIR_PU_BRG      1) RLput_tm.mw_brgfid > 0
                2) RLput_tm.org_trm_fl = ORG_CAL or
                TERM_CAL or A_CAL_NFLT
                3) RLput_tm.bg_in_tone is_in { TNBEEP1, TN_NONE }
                4) See NOTE Below
```

NOTE: If fea_fun = HDIR_PU_BRG or DIR_PU_BRG, for a Call Pickup feature on a DN, then no other Call Pickup feature with fea_fun = HDIR_PU_BRG or DIR_PU_BRG may be assigned to that DN.

```
HDIR_PU_BRG     1) RLput_tm.mw_brgfid > 0
                2) RLfc_porttyp.servclass = FC_ISDN
                3) RLmwcf.epis_fr_pu = DBYES
                4) RLmwcf.epfr_pu = DBNO
                5) RLmwcf.xfer = ALW_XFER
                6) RLput_tm.org_trm_fl = ORG_CAL or
                   TERM_CAL or A_CAL_NFLT
                7) RLput_tm.bg_in_tone = TNBEEP1
                8) See NOTE Below
```

NOTE: If fea_fun = HDIR_PU_BRG or DIR_PU_BRG, for a Call Pickup feature on a DN, then no other Call Pickup feature with fea_fun = HDIR_PU_BRG or DIR_PU_BRG may be assigned to that DN.

```
TBSYVFY         1) RLput_tm.mw_brgfid > 0
                2) RLput_tm.org_trm_fl = A_CAL_NFLT
                3) RLput_tm.bg_in_tone = TNBEEP1
TEMEROVR        1) RLput_tm.mw_brgfid > 0
                2) RLput_tm.org_trm_fl = A_CAL_NFLT
                3) RLput_tm.bg_in_tone = TNBEEP1
```

**Attribute: pty_flt**

**Fullname:** party filtering component

**Attribute Description** Filters to determine if a call can be picked up or answered.

```
Range of value: DBYES or DBNO for all structure members.
Members:        ATTNDNT (attendant),
                INTRATG (intra-terminal group)
                INTRAOFF (intra-office)
                INTEROFF (interoffice)
                PF (private facilities)
```

Default value: DBYES for all members (Results in no filtering).

**Attribute: pty_flt.intratg**

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**Fullname:** intra-terminal group

**Attribute Description** filter for intra-terminal group

**Attribute: pty_flt.intraoff**

**Fullname:** intra-office

**Attribute Description** filter for intra-office

**Attribute: pty_flt.interoff**

**Fullname:** interoffice

**Attribute Description** filter for interoffice

**Attribute: pty_flt.pf**

**Fullname:** private facilities

**Attribute Description** filter for private facilities

**Attribute: pty_flt.attndnt**

**Fullname:** attendant

**Attribute Description** filter for attendant

**Attribute: org_trm_fl**

**Fullname:** originating and terminating filter component

**Attribute Description** Used by directed pickup with barge-in (DPU) and busy verify and emergency override. Stable calls would be the call on which barge-in is being attempted.

```
Dependencies:
Enum. Value     Dependency
-----------     ----------
PUFL_NONE       1) RLput_tm.fea_fun = CAL_PU or DIR_PU
                2) RLput_tm.bg_in_tone = TN_NONE
ORG_CAL         1) RLput_tm.fea_fun = DIR_PU_BRG
                   or HDIR_PU_BRG
                2) RLmwcf.ot_3wyfl = ORIG  or  ALL
TERM_CAL        1) RLput_tm.fea_fun = DIR_PU_BRG
                   or HDIR_PU_BRG
                2) RLmwcf.ot_3wyfl = TERM  or  ALL
A_CAL_NFLT      1) RLput_tm.fea_fun = DIR_PU_BRG or
                   HDIR_PU_BRG or TBSYVFY or TEMEROVR
                2) RLmwcf.ot_3wyfl =  ALL
```

**Attribute: bg_in_tone**

**Fullname:** barge in tome indicator

**Attribute Description** Dependencies:

(1) If tone indicator is TNBEEP1, then tone duration Y ms = 900 in RLpu_ltm.tone_durn and

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tone repetition interval X = 0 RLpu_ltm.tone_intvl.

(2) If tone indicator is TNBEEP1, then RLput_tm.FEAFUN=DIRPUBRG or TBSYVFY or TEMEROVR or HDIRPUBRG

**Attribute: bill_typ**

**Fullname:** MCC feature billing (charge) type

**Attribute Description** Range of value: FLAT (no usage sensitive charge)
Default value: FLAT
Dependencies: none

**Attribute: bill_typ.flat**

**Fullname:** flat rate

**Attribute Description** no usage sensitive charge

**Attribute: bill_typ.usefreq1**

**Fullname:** usage frequency charge

**Attribute Description** for use of 'event' 1

**Attribute: bill_typ.usefreq2**

**Fullname:** usage frequency charge

**Attribute Description** for use of 'event' 2

**Attribute: bill_typ.usefreq3**

**Fullname:** usage frequency charge

**Attribute Description** for use of 'event' 3

**Attribute: bill_typ.usefreq4**

**Fullname:** usage frequency charge

**Attribute Description** for use of 'event' 4

**Attribute: bill_typ.actchrg**

**Fullname:** usage charge for activation

**Attribute Description** usage charge for activation

**Attribute: bill_typ.dactchrg**

**Fullname:** usage charge for deactivation

**Attribute Description** usage charge for deactivation

**Attribute: bill_typ.duration**

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**Fullname:** usage charge for duration of use

**Attribute Description** usage charge for duration of use

**Attribute: bill_typ.change**

**Fullname:** usage charge for change of parameter

**Attribute Description** usage charge for change of parameter

**Attribute: actvn**

**Fullname:** activating MCC feature

**Attribute Description** Indicates method of activating MCC features Dependencies:

```
Enum. value    Dependency
ACTNONE        1) RLput_tm.dctvn = DCTNONE
               2) RLput_tm.bill_typ.flat = DBYES
ACTCD          1) RLput_tm.dctvn = DCTCD
```

**Attribute: dctvn**

**Fullname:** deactivating MCC feature

**Attribute Description** Indicates method of deactivating MCC feature. Dependencies:

```
Enum. value    Dependency
DCTNONE        1) RLput_tm.actvn = ACTNONE
               2) RLput_tm.bill_typ.flat = DBYES
DCTCD          1) RLput_tm.actvn = ACTCD
```

**Attribute: t_pred_q**

**Fullname:** terminating predesignated queue

**Attribute Description** Dependencies:

```
If  t_pred_q  >=2  and  <= 65534 then
RLput_tm.fea_fun = CAL_PU.
```

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## 2.17 RELATIONS: Q

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# QENDPTS

## 1. Description

This relation defines interconnectivity of QLPS endpoints. See Rlqlps.G for a description of QLPS hardware that is used in the *5ESS*®-2000 switch for high bandwidth message transport.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 60 |
| expected tuples in relation | 32 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LRFG |
| relation type | DBSTATIC |
| trigger | SMendpttrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
QENDPTS     relid = 2004  DBSTATIC   DBACC_HASH  DBPRAM    LRFG    NULL
 (a) qnetwork    DMQLNTWK     (enum: 2)  <--- key
 (b) qservice    DMQLSRVC     (enum: 1)  <--- key
     qserv_num   DMMODULE     (ushort: 8)  <--- key
     qends0      DMHEX32      (ulong)
     qends1      DMHEX32      (ulong)
     qends2      DMHEX32      (ulong)
     qends3      DMHEX32      (ulong)
     qends4      DMHEX32      (ulong)
     qends5      DMHEX32      (ulong)
     qends6      DMHEX32      (ulong)
     qends7      DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout    QENDPTS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |   | |               |                                         |
  0 | a |b|   qserv_num   |*****************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             qends0                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             qends1                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                             qends2                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                             qends3                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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```
 20 |                             qends4                              |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 24 |                             qends5                              |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 28 |                             qends6                              |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 32 |                             qends7                              |
       ( 36 bytes )
domain alQENDPTS   struct  (4 sub-attributes)
 (a)     qnetwork    .2.fake      (enum: 2)
 (b)     qservice    .1fake       (enum)
         qserv_nu    .3.fake      (ushort)
         qends       .4.fake      (array [ 8 ] of unsigned long )

         Structure Layout      alQENDPTS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |   | |               |                                         |
  0 | a |b|    qserv_nu   |*****************************************|
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  4 |                             qends                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
    |                                                                 |
  8 |                             qends                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
    |                                                                 |
 12 |                             qends                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
    |                                                                 |
 16 |                             qends                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
    |                                                                 |
 20 |                             qends                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
    |                                                                 |
 24 |                             qends                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
    |                                                                 |
 28 |                             qends                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
    |                                                                 |
 32 |                             qends                               |
       ( 36 bytes )
```

## 4. Population Rules for RLqendpts

**Relation Description**
QLPS Endpoint Connectivity.

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This relation defines the connectivity of quad-link packet switch (QLPS) endpoints for a given QLPS service.

**Attribute: qnetwork**

**Fullname:** QLPS Network

**Attribute Description** This attribute identifies the QLPS network for which the endpoint connectivity is given. In release 1 of Service Net-2000, only networks 0 and 1 are allowed. Networks 2 and 3 may be supported in the future.

**Attribute: qservice**

**Fullname:** QLPS Service

**Attribute Description** This attribute is one of the services provided by the network. For this service, an endpoint connectivity map will be given in this tuple.

**Attribute: qserv_num**

**Fullname:** QLPS Service Sub-Number

**Attribute Description** This attribute will be used to further specify the QLPS service given in the qservice attribute. This attribute is always 0 when the qservice is OSDS.

**Attribute: qends[*]**

**Fullname:** QLPS Endpoints 1 through 255. (There are 8 elements in the array.)

**Attribute Description** Array positions that identify a 256 bit map of endpoint addresses for the given service

NOTE: Bit position 0 of array element 0 is never set.

If bit 1 is set in this attribute, for example, it means a QLL (QLPS logical link) can be established to QLPS endpoint 1.

| endpoint type | bit positions |
|---|---|
| MH | 1 - 192 |
| QGP | 193 - 194 |
| QGP side ports | 195 - 196 |

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# QKEYPORT

## 1. Description

This relation is used for static mapping from arbitrary hunted port key to gport.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65535 |
| expected tuples in relation | 50 |
| density | 18 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFP |
| application | GCRTG |
| relation type | DBSTATIC |
| trigger function | RTrcqmem |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
QKEYPORT    relid = 213   DBSTATIC   DBACC_CIND  DBPRAM    LPFP    GCRTG
     qkey        DMUNS16      (ushort) <--- key
     ph_number   DMPHNBR      (uchar: 7)
 (a) ps_flg      DMBOOL       (enum: 1)
     ph_cn       DMPHCN       (uchar: 7)
 (b) fast_inh    DMBOOL       (enum: 1)
     gport       DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout   QKEYPORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |             | |             | |
  0 |              qkey             |  ph_number  |a|    ph_cn    |b|
    |===============+============ gport ============+===============|
    |                               |               |               |
  4 |             member            |***************|     module    |
    |===============+===============+===============+===============|
       ( 8 bytes )
```

## 4. Population rules for RLqkeyport

### Relation Description

```
        Static mapping from arbitrary hunted port key to gport.
        This relation is used for static mapping from arbitrary
        hunted port key to gport.
                Specific Application section:
                        RLqkeyport (DCTU trunk groups members)
          DESCRIPTION:
                Population rules regarding DCTU trunk groups members. All rules
                pertain to DCTUs that reside in a HOST 5ESS(R)-2000 Switch
                Processing entity and DCTUs that reside in RSMs/ORMs/TRMs.
                NOTE:
```

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```
      (1) A singular qkey is required for each DCTU trunk group
          member since they are FIFO hunted. DCTU trunk groups have
          a hunt type of 'RTH_FIFO.' See the population rules for
          RLrt_trkg and RLrctgrprk.
      (2) For each DCTU trunk group member within a DCTU trunk group,
          there must be a corresponding entry in RLFC_PORTTYP in the
          particular SM where the physical DCTUPORT circuit is
          defined.  See the population rules for RLfc_porttype and
          RLcktdata.
      (3) For each DCTU trunk group member, there must be a
          corresponding  entry in RLGROUP_PORT and RLPGGPMAP. See
          the population rules for RLgroup_port and RLpggpmap.
      (4) There can be one fully equipped DCTU per SM that contains
          12 DCTUPORTs. There is one DCTUPORT LTP defined for each
          DCTUPORT. There can be 192 DCTUs in an office. Therefore,
          the theoretical maximum number of tuples in this relation
          owing to DCTU trunk group members is:
          ( 1 DCTU/SM) x ( 192 SMs/office) x ( 12 DCTUPORTs/DCTU) x
          ( 1 (DCTUPORT LTP)/DCTUPORT ) x ( 1 qkey/(DCTUPORT LTP) )
                              = 2,304 qkeys/office owing to the DCTU

QUANTITY OF TUPLES:
      One (1) tuple for each DCTUPORT LTP (DCTU trunk group member)
      in an office.

TUPLE SEMANTICS:
      qkey (KEY)    - singular value assigned by office, ODA, or RCV
                      Must be entry in RLGROUP_PORT
     gport.member   - DCTUPORT LTP name
                      Must be entry in RLPGGPMAP and RLGROUP_PORT
      gport.module - SM where DCTUPORT LTP is defined
                      entry MUST be defined in RLFC_PORTTYP
                      Must be entry in RLPGGPMAP and RLGROUP_PORT
      ps_flg       - DBNO
      ph_number    - 0
      ph_cn        - 0
RLqkeyport (ISTF trunk groups members)

DESCRIPTION:
      A qkey is required for each Integrated Services Test
      Function (ISTF) trunk group member since they are hunted FIFO.

QUANTITY OF TUPLES:
      One (1) tuple for each ISTF LTP (ISTF trunk group member)

TUPLE SEMANTICS:
      qkey (KEY)     - singular value assigned by office, ODA, or RCV
                       Must be entry in RLGROUP_PORT
     gport.member    - ISTF LTP name
                       Must be entry in RLPGGPMAP and RLGROUP_PORT
      gport.module   - SM where ISTF LTP is defined
                       entry must be defined in RLFC_PORTTYP
                       Must be entry in RLPGGPMAP and RLGROUP_PORT
      ps_flg         - DBNO
```

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```
        ph_number     - 0
        ph_cn         - 0
RLqkeyport (for DSU2-RAF/SAS Port Group members)

  DESCRIPTION:
        This relation provides the mapping from arbitrary hunted port
        keys to their RAF/SAS Global Port name equivalents.
        NOTE:
        (1) Each RAF/SAS port must be associated with a unique qkey for
            hunting since RAF/SAS ports are FIFO hunted (see RT_TRKG
            and RCTGRPRK).
        (2) For every port specified in this relation, a corresponding
            tuple must be populated in the GROUP_PORT, PGGPMAP,
            FC_PORTTYP and RC_TRK relations.
        (3) In addition, for every RAF/SAS port specified here,
            population must exist in the relation RLckt_port and
            RLcktdata for each port circuit. Here, we only check
            against RLckt_port since RLckt_port checked against
            RLcktdata already.

  QUANTITY OF TUPLES:
        One tuple per hunted RAF/SAS Port Group member

  TUPLE SEMANTICS:
        qkey        - unique value assigned by ODA and/or Recent Change
                      value must correspond to value in GROUP_PORT
                      relations for the gport given below
        gport.module - SM on which RAF/SAS port resides
        gport.member - RAF/SAS Port as defined above
        ps_flg       - DBNO
        ph_number    - 0
        ph_cn        - 0
  RLqkeyport (packet switching trunk groups members)

  DESCRIPTION:
        A qkey is required for each packet switching
        trunk group member since they are hunted ROTATE.
        An entry must be defined in RLFC_PORTTYP, FC_TRUNK
        RLDSLEQUIP, and RLEQUIPDSL relations
        such that
        1. rlQKEYPORT.gport.module = rlFC_PORTTYP.port.module
           rlFC_TRUNK.port.module
        2. rlQKEYPORT.gport.member = rlFC_PORTTYP.port.member
           rlFC_TRUNK.port.member = rlDSLEQUIP.dsl = rlEQUIPDSL.dsl
        3. rlFC_PORTTYP.servclass = PSPKT_TRK and
           rlFC_PORTTYP.lp_type = PCISWIP
        4. rlFC_PORTTYP.servclass = PSX75_TK and
           rlFC_PORTTYP.lp_type = PCX75TK
        5. rlFC_PORTTYP.servclass = PSX75P_TK and
           rlFC_PORTTYP.lp_type = PCX75PTK

  QUANTITY OF TUPLES:
        One (1) tuple for each packet switching trunk group member
```

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```
TUPLE SEMANTICS:
     qkey (KEY)    - singular value assigned by office, ODA, or RCV
                     Must be entry in RLPSPRT_GP and RLPSGP_PRT,
                     no entries in RLGROUP_PORT.
     gport.module  - SM where the packet switching trunk goup is
                     defined
     gport.member  - Port name of the trunk group member
     ps_flg        - must be DBYES for a packet switching trunk;
                     otherwise, it must be DBNO.
     ph_number     - Protocol handler number, also called DSL
                     group number. Range from 0 to 95. It
                     must be zero if ps_flg is DBNO.
     ph_cn         - PH channel number, also called DSL group member.
                     The range is from 0 to 127;
                     It must be zero if ps_flg is DBNO.

The following rules apply to the attributes in relations
RLqkeyport, RLpsgp_prt, RLpsprt_gp, and RLrt_trkg:
      1. rlQKEYPORT.qkey = rlPSGP_PRT.qkey = rlPSPRT_GP.qkey.
         The value of qkey is allocated from base address in RC_IDX
         or RC_QKEY relation.
      2. rlQKEYPORT.ph_number = rlPSGP_PRT.ph_number =
         rlPSPRT_GP.ph_number
         rlQKEYPORT.ph_cn = rlPSGP_PRT.ph_cn = rlPSPRT_GP.ph_cn
      3. rlRT_TRKG.grpnum = rlPSGP_PRT.grpnum = rlPSPRT_GP.grpnum
      4. rlPSGP_PRT.ptype = rlPSPRT_GP.ptype = TM_TRK, and
         rlRT_TRKG.htype = RTH_PSUCD.  Since X.75/X.75' packet
         trunk groups are limited to 24 members and IP packet
         trunk groups are limited to 32 members, RLrt_trkg.htype
         must never equal RTH_PSLGUCD.
      Trunk group configuration for packet switching:
      The following rules apply for Internal Protocol (IP) trunks:
       1. Service class of the IP trunk group must be
          PSPKT_TRK in fc_porttyp relation.
       2. There will be a maximum of 16 IP trunk groups for
          each 5ESS(R)-2000 switch.
       3. Each IP trunk group will have a maximum of 32 trunk
          members.
       4. All IP trunks in a trunk group will
          terminate on the same SM.
       5. Only one trunk member will terminate on a PH2.
       6. From 1 to 6 trunk members may terminate on a PH3 or PH4 as
          long as all of the trunk members are IP trunk members.
       7. The trunk group is 2_way.

      The following rules apply for X.75' trunks:
       1. There can be 255 X.75' trunk groups (per office)
          each with a maximum of 24 trunk members per group.
       2. There is a limit of 25 X.75' trunk groups on a given SM.
       3. The trunk group is a 2-way T1 facility.
       4. Only one trunk member will terminate on a PH2.
       5. From 1 to 6 trunk members may terminate on a PH3 or PH4 as
          long as all of the trunk members are X.75' trunk members
          and all trunk member ports terminate in the same SM.
```

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It is recommended that only 4 trunk members are put on a given PH3.

6. The service class of each member in fc_porttyp is PSX75P_TK.
7. X.75' trunk members can reside on different SMs.
8. All the trunk members in a X.75' trunk group can be split among non-remoted SMs and can not be split between RSMs, ORMs, and TRMs, that is, if any RSM, ORM or TRM contains X.75' trunk members it must contain the whole group.

The following rules apply for X.75 trunks:

1. There can be 255 X.75 trunk groups (per office) with a maximum of 24 trunk members each.
2. There is a limit of 25 X.75 trunk groups on a given SM.
3. The trunk group is a 2-way T1 facility.
4. Only one trunk member will terminate on a PH2.
5. From 1 to 6 trunk members may terminate on a PH3 or PH4 as long as all of the trunk members are X.75 trunk members and all trunk member ports terminate in the same SM. It is recommended that only 4 trunk members are put on a given PH3 or PH4.
6. The service class of each member in fc_porttyp is PSX75_TK.
7. All the trunk members in a X.75 trunk group can be split among non-remoted SMs and can not be split between RSMs, ORMs, and TRMs, that is, if any RSM, ORM or TRM contains X.75 trunk members it must contain the whole group. The total combined number of Packet Trunks (IP, X.75, X.75') on any given Loaded SM is 25. This may consist of any number of types following the above limits for the three types.

**Attribute:**
qkey
**Fullname:**
Arbitrary key used by RC & RTA to represent hunted trunk ports.
**Attribute Description:**
Arbitrary key used by RC & RTA to represent hunted trunk ports.

**Attribute:**
gport
**Fullname:**
Structure of a global port.
**Attribute Description:**
Used as a structure of a global port.

**Attribute:**
gport.member
**Fullname:**
Port name

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**Attribute Description:**
Used as a port name.
For X.75 trunk ports, there must be an entry in RLfc_porttyp
with RLfc_porttyp.servclass=PSX75_TK
For X.75' trunk ports, there must be an entry in RLfc_porttyp
with RLfc_porttyp.servclass=PSX75P_TK
For IP trunk ports, there must be an entry in RLfc_porttyp
with RLfc_porttyp.servclass=PSPKT_TRK

**Attribute:**
gport.module
**Fullname:**
Module number.
**Attribute Description:**
Used as module number.

**Attribute:**
ps_flg
**Fullname:**
Packet switching trunk group
**Attribute Description:**
Indicates if the trunk group is used for packet switching.

**Attribute:**
ph_number
**Fullname:**
Protocol handler number.
Also called DSL group number.
**Attribute Description:**
Used as protocol handler number, also called DSL group number.

**Attribute:**
ph_cn
**Fullname:**
Protocol handler channel number
**Attribute Description:**
Used as protocol handler channel number.
The range is from 0 to 127.
If the port is an IP, X.75 or X.75' trunk and the PH is of
type PH2 then ph_cn must be 0.
If the port is an IP, X.75 or X.75' trunk and the PH is of type
PH3 or PH4 then ph_cn may be (0,4,8...20) in even multiples of four
as long as all members on a given PH3 or PH4 are of the same trunk
level 2 profile and all of the ports are equipped on the same
SM. It is recommended that a maximum of 4 X.75' or X.75 trunk
members be assigned to a given PH3 o PH4.
HARDWARE CONVERSION NOTE:
If the PH3 or PH4 is to be converted to a PH2 only 1 member may be
assigned to the PH3 or PH4 and the 'ph_cn' attribute must equal 0

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otherwise the conversion will be blocked!

**Attribute:**
fast_inh
**Fullname:**
Fast Port Termination Inhibit Flag
**Attribute Description:**
This flag indicates whether this trunk port
supports the fast port termination inhibit feature.
Fast Port Termination Inhibit enables RTA to avoid rehunting
while the out of service status for a large number of trunks
is being updated in the CMP from the SM. This can occur
due to a carrier group alarm or manual remove operation
of certain facilities (such as, an STE or an STS-1).
This feature is supported by the following trunk units:
DNU-S (Digital Networking Unit-SONET)
DLTU2 (Digital Line Trunk Unit-2

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# QLPS

## 1. Description

This relation defines the QLPS Quad-Link Packet Switch (QLPS) hardware that is used in the *5ESS* ®-2000 switch for high bandwidth message transport.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8 |
| expected tuples in relation | 4 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTATIC |
| trigger function | SMqlpstrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
QLPS        relid = 2001  DBSTATIC   DBACC_CIND  DBPRAM    LR      NULL
 (a) qnetwork    DMQLNTWK     (enum: 2)     <--- key
 (b) side        DMSIDE       (enum: 1)     <--- key
     qservice    DMHEX32      (ulong)
     qtmslnk0    DMTMSLNK     (short)
     qtmslnk1    DMTMSLNK     (short)
     qtmslnk2    DMTMSLNK     (short)
     qtmslnk3    DMTMSLNK     (short)
 (c) eqstat      DMEQSTAT     (enum: 3)
     cli         DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   QLPS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |   | |                                                         |
  0 | a |b|*********************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            qservice                           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            qtmslnk0           |            qtmslnk1           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |            qtmslnk2           |            qtmslnk3           |
    |---------------+---------------+---------------+---------------|
    |     |                                                         |
 16 |  c  |*********************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                              cli                              |
      ( 24 bytes )
```

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```
domain alQLPS     struct  (6 sub-attributes)
 (a)     qnetwork    .2.fake      (enum: 2)
 (b)     side        .2fake       (enum)
         qservice    unsigned long (ulong)
         qtmslnk     .3.fake      (array [ 4 ] of short )
 (c)     eqstat      .4.fake      (enum: 3)
         cli         unsigned long (ulong)

         Structure Layout    alQLPS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |   | |                                                         |
  0 | a |b|*********************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             qservice                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             qtmslnk                           |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                             qtmslnk                           |
    |---------------+---------------+---------------+---------------|
    |     |                                                         |
 16 |  c  |*********************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                               cli                             |
      ( 24 bytes )
```

## 4. Population Rules for RLqlps

**Relation Description**
Quad-Link Packet Switch Hardware

This relation defines the quad-link packet switch (QLPS) Hardware. QLPS is part of SM-2000 and is an overlay network to provide high bandwidth message transport between SM-2000's and between SM-2000's and existing processors. A QLPS network consists of 2 QLPS boards, one installed on each side of the ONTC. One side is always the ACTIVE QLPS and the other the STANDBY QLPS for the network during normal operation.

**Attribute: qnetwork**

**Fullname:** QLPS Network

**Attribute Description** This attribute identifies the QLPS network, which can only be 0 or 1 in release 1 of the *5ESS*®-2000 switch. Future releases may have networks 2 and 3, which must be allowed for.

**Attribute: side**

**Fullname:** ONTC side

**Attribute Description** This attribute is used to identify which ONTC side the QLPS hardware for the given network is being installed on. (ONTC side is also called TMS side.)

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**Attribute: qservice**

**Fullname:** QLPS Service (what type(s) of messages are routed by this QLPS)

**Attribute Description** This attribute is used to define what types of services are provided by the given QLPS network. Type of service essentially means what type of messages will be routed by this QLPS. For release 1 of *5ESS*®-2000 switch, the allowable QLPS networks will route OSDS messages. The default is set with bit 0 set to indicate that the supported service for release 1 is OSDS. In the future, as other services are added, the description of this attribute may be expanded to indicate different services per network.

**Attribute: qtmslnk[*]**

**Fullname:** QLPS TMS links (QTMSLNKs)

**Attribute Description** For the four TMS links associated with the given QLPS network on the given ONTC side:

```
qtmslnk0: stores the first TMS link
qtmslnk1: stores the second TMS link
qtmslnk2: stores the third TMS link
qtmslnk3: stores the fourth TMS link
```

Each QLPS board on an ONTC side occupies 4 TMS links.

**Attribute: eqstat**

**Fullname:** QLPS Equippage Status

**Attribute Description** This attribute is used to store the equippage status of the given QLPS network on the given ONTC side.

**Attribute: cli**

**Fullname:** QLPS Hardware Vintage

**Attribute Description** This attribute identifies the version of the QLPS hardware. (In *5ESS*®-2000 switch release 1, there is only 1 version of QLPS hardware.)

**defines:**
"db/DMclidef.h"

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# QOR_OPT

## 1. Description

The purpose of this relation is to identify which coding standard and cause value combinations are designated for Query on Response processing. The relation is indexed by the coding standard. Currently, only the ITU-TS and *ANSI*® standards are used. The tuples contain one bit per cause value.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 4 |
| expected number of tuples | 2 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
QOR_OPT     relid = 2792  DBSTATIC   DBACC_LIN   DBPRAM    FR      NULL
 (a) cdstd       DMCDSTD      (enum: 2)     <--- key
     cv_map1     DMHEX32      (ulong)
     cv_map2     DMHEX32      (ulong)
     cv_map3     DMHEX32      (ulong)
     cv_map4     DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout    QOR_OPT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |   |                                                           |
  0 | a |***********************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             cv_map1                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             cv_map2                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                             cv_map3                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                             cv_map4                           |
       ( 20 bytes )
domain alQOR_OPT  struct  (2 sub-attributes)
 (a)     cdstd       .0fake       (enum)
         cv_map      .0.fake      (array [ 4 ] of unsigned long )
         Structure Layout     alQOR_OPT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |   |                                                           |
  0 | a |***********************************************************|
    |---------------+---------------+---------------+---------------|
```

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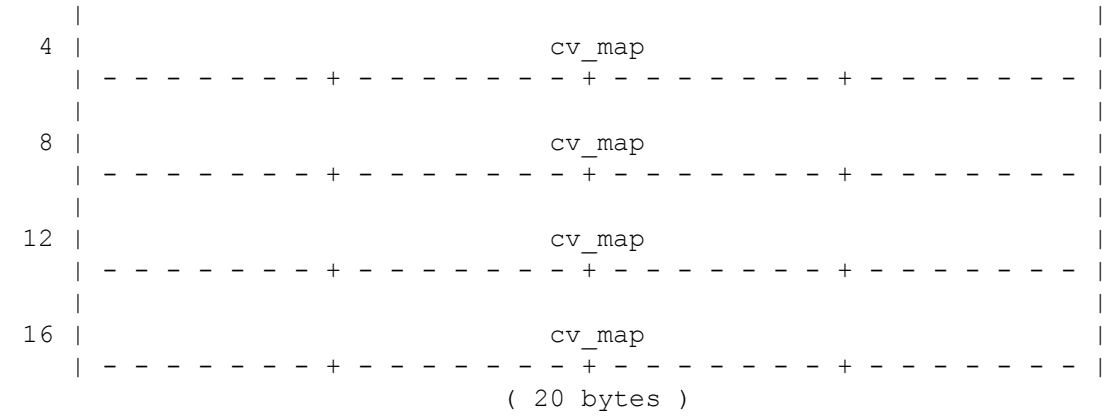


## 4. Population Rules for RLqor_opt

**Relation Description:** Query on Release for Location Routing Number options.

This relation is an optional relation used for the Number Portability (NP) - Query on Release (QOR) for Location Routing Number (LRN) feature.

This feature uses the Query on Release (QOR) trigger along with the basic NP - LRN feature to provide number portability. The QOR trigger is a new type of Local Number Portability (LNP) trigger, where the database query to the Service Control Point (SCP) is not launched until receipt of an SS7 release message with a cause value of 27, "NP QOR - Number not Found" ( and possibly other provisioned cause values). This relation indicates which combinations of coding standard and cause values are provisioned.

Note the cause values are defined in the CCS7 ISUP Messages and Parameters Specification Document.

**Attribute: cdstd**

**Fullname:** Coding Standard

**Attribute Description** This key attribute indicates the coding standard used in the release message. A value of 0 indicates ITU-TS; a value of 2 indicates *ANSI*®. No other values are allowed.

**Attribute: cv_map1**

**Fullname:** Cause value bitmap word 1

**Attribute Description** This attribute is used as a bitmap for cause values 0 through 31. When a given bit is set to 1, the corresponding cause value is provisioned for NP - QOR for LRN processing.

**Attribute: cv_map2**

**Fullname:** Cause value bitmap word 2

**Attribute Description** This attribute is used as a bitmap for cause values 32 through 63. When a given bit is set to 1, the corresponding cause value is provisioned for NP - QOR for LRN processing.

**Attribute: cv_map3**

**Fullname:** Cause value bitmap word 3

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**Attribute Description** This attribute is used as a bitmap for cause values 64 through 95. When a given bit is set to 1, the corresponding cause value is provisioned for NP - QOR for LRN processing.

**Attribute: cv_map4**

**Fullname:** Cause value bitmap word 4

**Attribute Description** This attribute is used as a bitmap for cause values 96 through 127. When a given bit is set to 1, the corresponding cause value is provisioned for NP - QOR for LRN processing.

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# QPH

## 1. Description

This relation contains the CCS QPH to the QLPS Network relationship.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 16 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCqph |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
QPH          relid = 2556  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     qendpt      DMUNS8       (ushort: 8)
     dsl_group   DMPHNBR      (uchar: 7)
     member0     DMPHCN       (uchar: 7)
 (a) netwk1      DMBOOL       (enum: 1)
     member1     DMPHCN       (uchar: 7)
 (b) netwk0      DMBOOL       (enum: 1)
     qphindx     DMUNS5       (ushort: 5)       <--- key
         User, Compacted and Stored Tuple Layout    QPH
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |             | |             | |             | |
  0 |     qendpt    |  dsl_group  |*|   member0   |a|   member1   |b|
    |---------------+---------------+---------------+---------------|
    |         |                                                     |
  4 | qphindx |*****************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLqph

### Relation Description

QPH

This relation provides the basic relationship between the QLPS endpoint addresses, the Logical PH numbers and the QPH index.

**Attribute:**

qphindx

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**Fullname:**
QPH index
**Attribute Description:**
The QPH index is the sequential index of the Quad Link PH

**Attribute:**
qendpt
**Fullname:**
QLPS endpoint
**Attribute Description:**
The QLPS endpoint address of the QPH.

**Attribute:**
dsl_group
**Fullname:**
Digital Subscriber Line group
**Attribute Description:**
This attribute is the DSL group number to which a port has been assigned. The attribute is the logical PH number.

**Attribute:**
netwk0
**Fullname:**
QLPS Network 0
**Attribute Description:**
Indicates whether the QLPS Network 0 is linked to this QPH through a QPH pipe.

**Attribute:**
netwk1
**Fullname:**
QLPS Network 1
**Attribute Description:**
Indicates whether the QLPS Network 1 is linked to this QPH through a QPH pipe.

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# QPHPIPE

## 1. Description

This relation contains the CCS QPH Pipe to the QLPS Network relationship.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 32 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | PCqphpipe |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
QPHPIPE     relid = 2557  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL


    qendpt      DMUNS8       (ushort: 8)       <--- key
 (a) qnetwork    DMQLNTWK     (enum: 2) <--- key
    nli         DMUNS5       (ushort: 5)
    qport       DMPORT       (ushort)
    num_slots   DMUNS8       (ushort: 8)
 (b) qlnkpos     DMUNS2       (ushort: 2)
    net0        DMHEX32      (ulong)
    net1        DMHEX32      (ulong)
    net2        DMHEX32      (ulong)
    net3        DMHEX32      (ulong)
    net4        DMHEX32      (ulong)
    net5        DMHEX32      (ulong)
    net6        DMHEX32      (ulong)
    net7        DMHEX32      (ulong)
    net8        DMHEX32      (ulong)
    net9        DMHEX32      (ulong)
    net10       DMHEX32      (ulong)
    net11       DMHEX32      (ulong)
    net12       DMHEX32      (ulong)
    net13       DMHEX32      (ulong)
    net14       DMHEX32      (ulong)
    net15       DMHEX32      (ulong)
    net16       DMHEX32      (ulong)
    net17       DMHEX32      (ulong)
    net18       DMHEX32      (ulong)
    net19       DMHEX32      (ulong)
    net20       DMHEX32      (ulong)
    net21       DMHEX32      (ulong)
    net22       DMHEX32      (ulong)
    net23       DMHEX32      (ulong)
        User, Compacted and Stored Tuple Layout    QPHPIPE
```

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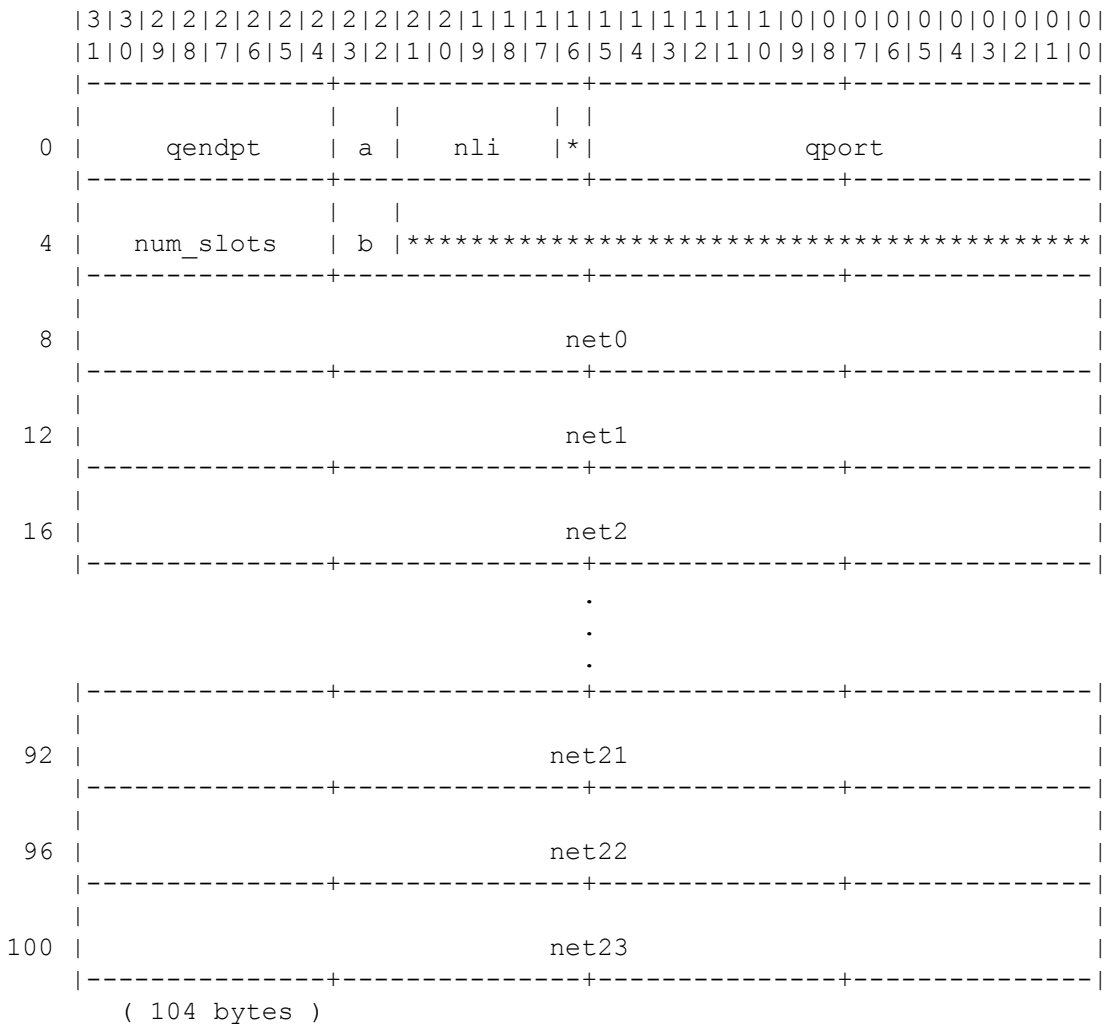
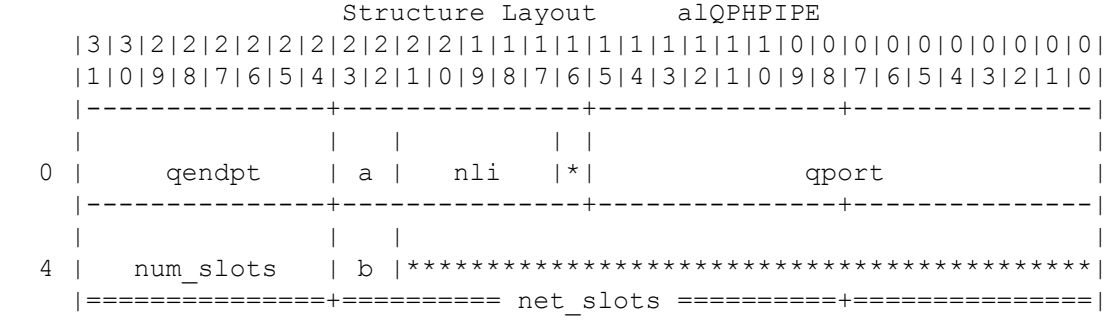



( 104 bytes )

```
domain alQPHPIPE  struct  (7 sub-attributes)
         qendpt      .6.fake      (ushort)
 (a)     qnetwork    .7.fake      (enum: 2)
         nli         .8.fake      (ushort: 5)
         qport       unsigned short (ushort)
         num_slots   .9.fake      (ushort)
 (b)     qtlnkpos    .10.fake     (ushort: 2)
         net_slots   .1fake       (struct)
            per         .0.fake      (array [ 24 ] of unsigned long )
```

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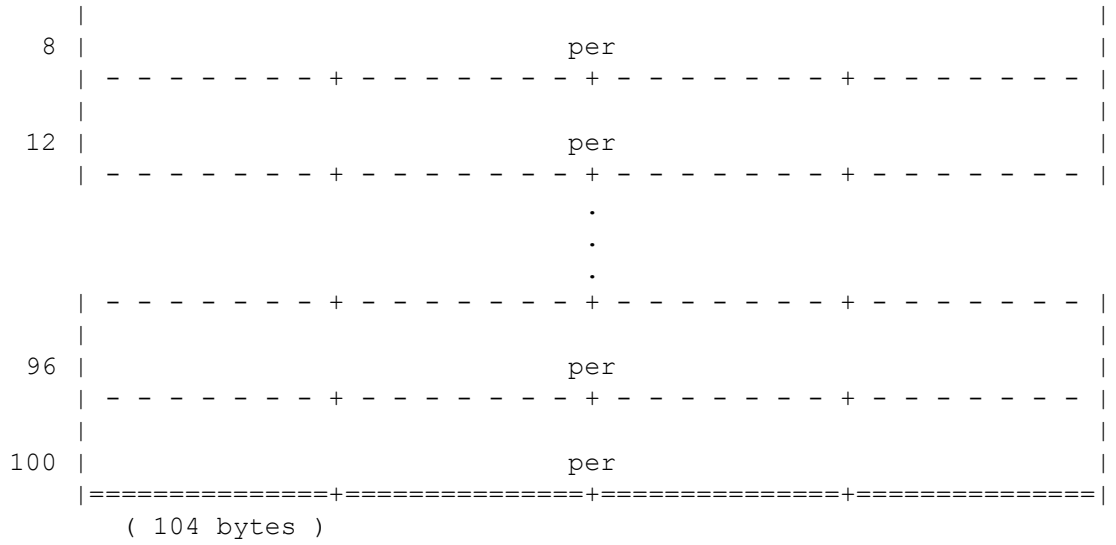


## 4. Population rules for RLqphpipe

### Relation Description

QPH pipe

This relation provides the basic description of the SM side of the QLPS pipe connecting the QPH to the QLPS Network

**Attribute:**
qendpt
**Fullname:**
QLPS endpoint
**Attribute Description:**
The QLPS endpoint address of the QPH.

**Attribute:**
qnetwork
**Fullname:**
QLPS Network
**Attribute Description:**
The QLPS Network Number. For release one, there will be two networks defined; 0 and 1.

**Attribute:**
qport
**Fullname:**
Logical Port Number
**Attribute Description:**
The logical port number associated with this QPH pipe.

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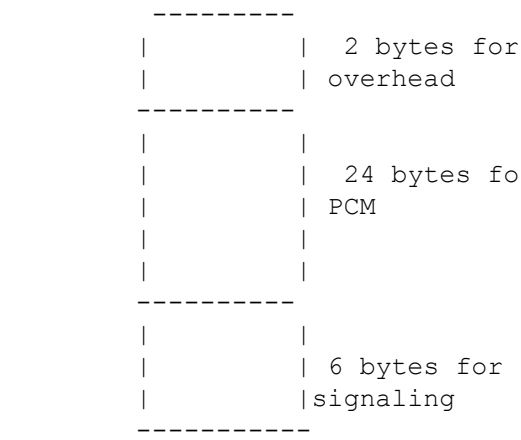
**Attribute:**
num_slots
**Fullname:**
Number of Pipe Timeslots
**Attribute Description:**
The number of timeslots in the QPH pipe being defined. This number for release 1, will be fixed at 4 timeslots per QPH pipe.

**Attribute:**
qlnkpos
**Fullname:**
QTMSLNK (QLPS TMS Link) Position
**Attribute Description:**
The position within the QLPS of the QTMSLNK that terminates this QPH pipe at the QLPS.

**Attribute:**
net[*]
**Fullname:**
QPH pipe Network Side Timeslot Map
**Attribute Description:**
These attributes are 24 words of 32 bits each that for a 768 bit map of timeslots that define a pipe from the QLPS to the QPH in this GSM. The network side timeslots (through the TMS) have been defined in the AM relation RLtmspipe. (See RLtmspipe.r for more information.) For this pipe (from a given QLPS to QPH in this GSM), the network side timeslots need to be copied from RLtmspipe.slot{0-7} and converted to a PC numbering scheme used for network side timeslots used by PC in an GSM. The mapping scheme is:

Each frame on a TSI link has 1024 bytes, 32 blocks which contain 32 bytes each.
In each block, the 32 bytes are assigned as follows:

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The PCM bytes are where the QLPS pipe data is carried. The 24 bytes for PCM are divided into 3 chunks of 8 each. Only the first and third chunk of 8 out of every 24 are transmitted on the NCT2 links for a total of 16 transmitted timeslots in each block. Given 32 blocks, there is a total of 16 * 32 = 512 transmitted (usable) timeslots.

**Attribute:**

nli

**Fullname:**

NLI/DLI for Network Timeslots

**Attribute Description:**

This attribute identifies the NLI that the network side timeslots terminates on the Global SM-2000. For release 1, all QLPS pipes use the primary NLI's on SM-2000. On Global SMs the DLT's will be used and populated in this attribute.

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# QPORT_R

## 1. Description

This relation describes the relationship between the logical port of the QPH Pipe and the Endpoint/Network pair.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 32 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | perm |

## 3. Field Layout

```
QPORT_R     relid = 2564  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL


     qport       DMPORT       (ushort)  <--- key
     qendpt      DMUNS8       (ushort: 8)
     dsl_group   DMPHNBR      (uchar: 7)
     member      DMPHCN       (uchar: 7)
     qphindx     DMUNS5       (ushort: 5)
 (a) qnetwork    DMQLNTWK     (enum: 2)
         User, Compacted and Stored Tuple Layout    QPORT_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |             | |
  0 |              qport            |     qendpt    |  dsl_group  |*|
    |---------------+---------------+---------------+---------------|
    |               |         |   |                                 |
  4 |    member     | qphindx | a |*********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLqport_r

### Relation Description

There are no population rules for this relation.

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# QPORT

## 1. Description

Describes the relationship between the port of the QLPS Network and the CCS QPH.

The tree diagram Figure 1 depicts the stored structure of virtual relation QPORT.

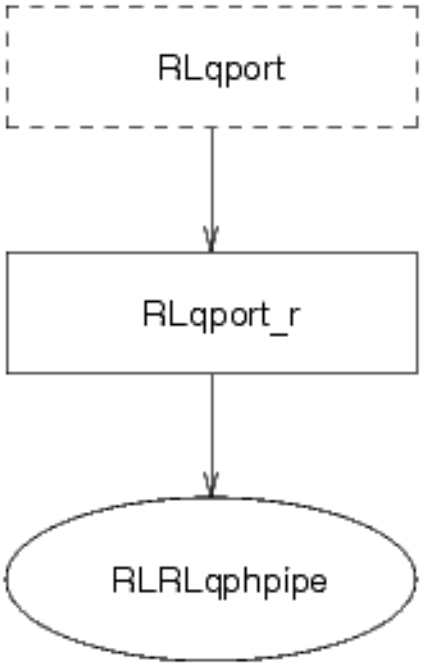


**Figure 1 Virtual Relation QPORT**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FP |
| relation type | DBNOUPDT |
| permutation type | un_perm |

## 3. Field Layout

```
QPORT       relid = 2563  DBNOUPDT   DBACC_OPV   DBNOTODD  FP      NULL
     qport        DMPORT       (ushort)     <--- key
     qendpt       DMUNS8       (ushort: 8)
 (a) qnetwork     DMQLNTWK     (enum: 2)
     num_slots    DMUNS8       (ushort: 8)
 (b) qlnkpos      DMUNS2       (ushort: 2)
     net0         DMHEX32      (ulong)
     net1         DMHEX32      (ulong)
     net2         DMHEX32      (ulong)
     net3         DMHEX32      (ulong)
     net4         DMHEX32      (ulong)
     net5         DMHEX32      (ulong)
     net6         DMHEX32      (ulong)
     net7         DMHEX32      (ulong)
```

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```
     net8         DMHEX32       (ulong)
     net9         DMHEX32       (ulong)
     net10        DMHEX32       (ulong)
     net11        DMHEX32       (ulong)
     net12        DMHEX32       (ulong)
     net13        DMHEX32       (ulong)
     net14        DMHEX32       (ulong)
     net15        DMHEX32       (ulong)
     net16        DMHEX32       (ulong)
     net17        DMHEX32       (ulong)
     net18        DMHEX32       (ulong)
     net19        DMHEX32       (ulong)
     net20        DMHEX32       (ulong)
     net21        DMHEX32       (ulong)
     net22        DMHEX32       (ulong)
     net23        DMHEX32       (ulong)
     nli          DMUNS5        (ushort: 5)
         User, Compacted and Stored Tuple Layout  QPORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |   |           |
  0 |             qport             |     qendpt    | a |***********|
    |---------------+---------------+---------------+---------------|
    |               |   |                                           |
  4 |   num_slots   | b |*******************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             net0                              |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                             net1                              |
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                                                               |
 96 |                            net22                              |
    |---------------+---------------+---------------+---------------|
    |                                                               |
100 |                            net23                              |
    |---------------+---------------+---------------+---------------|
    |         |                                                     |
104 |   nli   |*****************************************************|
       ( 108 bytes )
domain alQPORT    struct  (7 sub-attributes)
         qport       unsigned short (ushort)
         qendpt      .18.fake      (ushort)
 (a)     qnetwork    .19.fake      (enum: 2)
         num_slots   .20.fake      (ushort)
 (b)     qtlnkpos    .21.fake      (ushort: 2)
         net_slots   .1fake        (struct)
             per         .2.fake       (array [ 24 ] of unsigned long )
```

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```
        nli         .22.fake     (ushort: 5)

        Structure Layout   alQPORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |   |           |
  0 |             qport             |     qendpt    | a |***********|
    |---------------+---------------+---------------+---------------|
    |               |   |                                           |
  4 |    num_slot   | b |*******************************************|
    |===============+==========  net_slot ==========+===============|
    |                                                               |
  8 |                              per                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                              per                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                    .
                                    .
                                    .
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 96 |                              per                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
100 |                              per                              |
    |===============+===============+===============+===============|
    |         |                                                     |
104 |   nli   |*****************************************************|
       ( 108 bytes )
```

## 4. Population Rules for RLqport

There are no population rules for this relation.

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# QTYPES

## 1. Description

This relation defines the type of all QLPS (Quad-Link Packet Switch) endpoints. QLPS is used in the 5ESS-2000 switch for high bandwidth message transport.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 496 |
| expected tuples in relation | 68 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LRFG |
| relation type | DBSTATIC |

## 3. Field Layout

```
QTYPES      relid = 2002  DBSTATIC   DBACC_HASH  DBPRAM    LRFG    NULL


     qendpt      DMUNS8       (ushort: 8)       <--- key
     sm_num      DMMODULE     (ushort: 8)
     dsl_group   DMPHNBR      (uchar: 7)
     type        DMQLTYPE     (enum: 3)
 (a) qnetwork    DMQLNTWK     (enum: 2) <--- key
         User, Compacted and Stored Tuple Layout QTYPES
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |             | |     |   |     |
  0 |     qendpt    |     sm_num    |  dsl_group  |*| type| a |*****|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population rules for RLqtypes

**Relation Description**

QLPS Endpoint Types

This relation will have a tuple for every endpoint in a Quad-Link Packet Switch (QLPS) network. QLPS is an optional high bandwidth message transport being developed as part of Service Net 2000 release 1. The tuples in this relation will specify the endpoint id number, the endpoint type, and what SM-2000 the endpoint resides in.

**Attribute:**

qnetwork

**Fullname:**

QLPS Network

**Attribute Description:**

This attribute identifies the QLPS network, which can only be 0 or 1 in release 1 of 5E-2000. Future releases may have

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networks 2 and 3, which must be allowed for.

**Attribute:**
qendpt
**Fullname:**
QLPS Endpoint
**Attribute Description:**
This attribute is the id number (1-196) of a QLPS endpoint for the given QLPS network.

**Attribute:**
type
**Fullname:**
QLPS Endpoint Type
**Attribute Description:**
This attribute specifies the type of the indicated QLPS endpoint. For release 1, the possible type of endpoints are MH and QGP.

| type | endpoint addresses |
|---|---|
| MH | 1 - 192 |
| QGP | 193 - 194 |
| Side Ports for QGPs | 195 - 196 |

**Attribute:**
sm_num
**Fullname:**
SM Where Endpoint Resides
**Attribute Description:**
This attribute specifies the SM where this endpoint resides. For the MH, it is the same number as the endpoint address. For the QGP, this attribute is zero since the QGP endpoint is not in an SM.

**Attribute:**
dsl_group
**Fullname:**
DSL group number
**Attribute Description:**
DSL group number to which the QLPS endpoint (specifically a QPH) is assigned. A dsl_group is also defined as the logical PH.

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# QU_CFDFL

## 1. Description

This relation contains the queuing constructed feature with default parameters. This is in the AM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 2048 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
QU_CFDFL    relid = 611   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     feat_id     DMMCC_FID    (ushort)     <--- key
 (a) grptype     DMQPTYPE     (enum: 2)
     qtype       DMQTYPE      (enum: 3)
 (b) cwl         DMBOOL       (enum: 1)
 (c) spl_dlytreat  DMBOOL       (enum: 1)
 (d) lmptyp      DMCWLTYP     (enum: 2)
 (e) threstyp    DMCWTHTYP    (enum: 2)
 (f) qinterfl    DMBOOL       (enum: 1)
 (g) sada        DMBOOL       (enum: 1)
 (h) ann_bill    DMBOOL       (enum: 1)
     q_bill      DMMC_BILL    (struct)
 (i)     flat        DMBOOL       (enum: 1)
 (j)     usefreq1    DMBOOL       (enum: 1)
 (k)     usefreq2    DMBOOL       (enum: 1)
 (l)     usefreq3    DMBOOL       (enum: 1)
 (m)     usefreq4    DMBOOL       (enum: 1)
 (n)     actchrg     DMBOOL       (enum: 1)
 (o)     dactchrg    DMBOOL       (enum: 1)
 (p)     duration    DMBOOL       (enum: 1)
 (q)     change      DMBOOL       (enum: 1)
     qbsize      DMUNS8       (ushort: 8)
     qexsize     DMUNS8       (ushort: 8)
     qmodule     DMMODULE     (ushort: 8)
 (r) numcwl      DMUNS2       (ushort: 2)
     cwth1       DMUNS5NB     (uchar)
     cwth2       DMUNS5NB     (uchar)
     cwth3       DMUNS5NB     (uchar)
     cwl_sd1     DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     cwl_sd2     DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     cwl_sd3     DMGPORT      (struct)
```

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```
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
 (s) numann      DMUNS3       (ushort: 3)
     pre_anntone  DMTONE       (enum)
 (t) pre_ann_dly  DMUNS5       (ushort: 5)
     int_anntone  DMTONE       (enum)
 (u) int_ann_dly  DMUNS5       (ushort: 5)
     post_anntone  DMTONE       (enum)
     ann1typ     DMQANTYPE    (enum)
     ann2typ     DMQANTYPE    (enum)
     ann3typ     DMQANTYPE    (enum)
     ann4typ     DMQANTYPE    (enum)
     ann5typ     DMQANTYPE    (enum)
     ann1cycl    DMQANCYCL    (uchar)
     ann2cycl    DMQANCYCL    (uchar)
     ann3cycl    DMQANCYCL    (uchar)
     ann4cycl    DMQANCYCL    (uchar)
     ann5cycl    DMQANCYCL    (uchar)
     ann1port    DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     ann2port    DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     ann3port    DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     ann4port    DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     ann5port    DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     music_port  DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     flex_first  DMUNS8       (ushort: 8)
     warn_thresh  DMUNS8       (ushort: 8)
     isat_thresh  DMUNS8       (ushort: 8)
     qbusy_dpn   DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout   QU_CFDFL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |   |     | | | |   |   | | | | |
  0 |            feat_id            | a |qtype|b|c|*| d | e |f|g|h|*|
    |===============+===========  q_bill ===========+===============|
    | | | | | | | | | |                                             |
  4 |i|j|k|l|m|n|o|p|q|*********************************************|
    |===============+===============+===============+===============|
    |               |               |               |   |           |
  8 |     qbsize    |    qexsize    |    qmodule    | r |***********|
```

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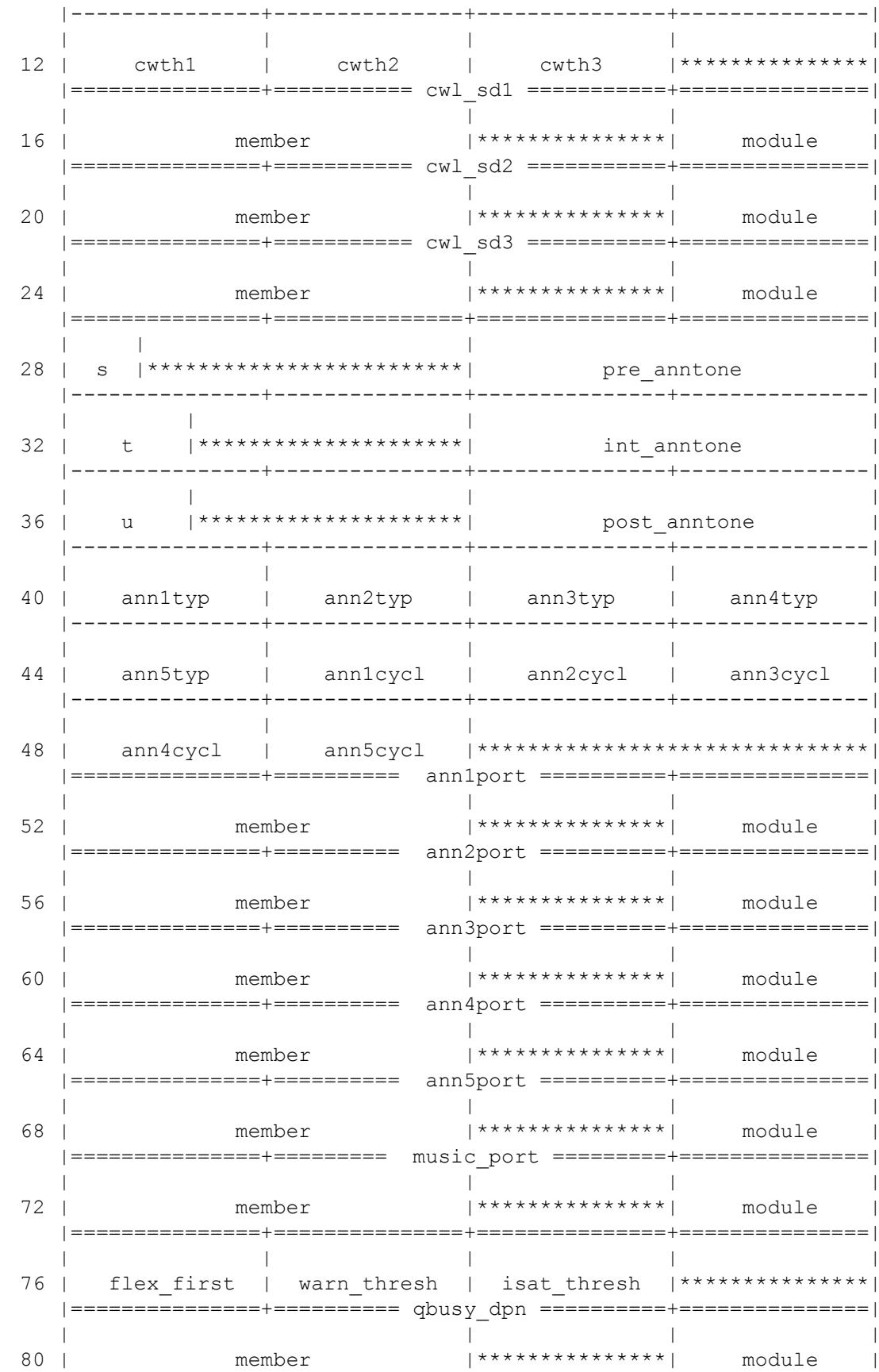


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```
    |===============+===============+===============+===============|
       ( 84 bytes )
domain alQU_CFDFL struct  (31 sub-attributes)
         feat_id     unsigned short (ushort)
 (a)     grptype     .3fake       (enum)
          qtype       .5fake       (enum)
 (b)     cwl         .0fake       (enum)
 (c)     spl_dlytreat  .0fake       (enum)
 (d)     lmptyp      .7fake       (enum)
 (e)     threstyp    .8fake       (enum)
 (f)     qinterfl    .0fake       (enum)
 (g)     sada        .0fake       (enum)
 (h)     ann_bill    .0fake       (enum)
          q_bill      .2fake       (struct)
 (i)     flat        .0fake       (enum)
 (j)     usefreq1    .0fake       (enum)
 (k)     usefreq2    .0fake       (enum)
 (l)     usefreq3    .0fake       (enum)
 (m)     usefreq4    .0fake       (enum)
 (n)     actchrg     .0fake       (enum)
 (o)     dactchrg    .0fake       (enum)
 (p)     duration    .0fake       (enum)
 (q)      change      .0fake       (enum)
           qbsize      .19.fake     (ushort)
           qexsize     .20.fake     (ushort)
           qmodule     .21.fake     (ushort)
 (r)     numcwl      .22.fake     (ushort: 2)
          thresh      .23.fake     (array [ 3 ] of unsigned char )
          dpn         .24.fake     (array [ 3 ] of .1fake )
              member      unsigned short (ushort)
              module      .0.fake      (ushort)
 (s)     numann      .25.fake     (ushort: 3)
          pre_anntone  .26.fake     (enum)
 (t)     pre_ann_dly  .27.fake     (ushort: 5)
          int_anntone  .28.fake     (enum)
 (u)     int_ann_dly  .29.fake     (ushort: 5)
          post_anntone  .30.fake     (enum)
          types       .31.fake     (array [ 5 ] of .4fake )
          cycles      .32.fake     (array [ 5 ] of unsigned char )
          ports       .33.fake     (array [ 5 ] of .1fake )
              member      unsigned short (ushort)
              module      .0.fake      (ushort)
          music_port  .1fake       (struct)
              member      unsigned short (ushort)
              module      .0.fake      (ushort)
          flex_first  .34.fake     (ushort)
          warn_thresh  .35.fake     (ushort)
          isat_thresh  .36.fake     (ushort)
          qbusy_dpn   .1fake       (struct)
              member      unsigned short (ushort)
              module      .0.fake      (ushort)

         Structure Layout    alQU_CFDFL
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
```

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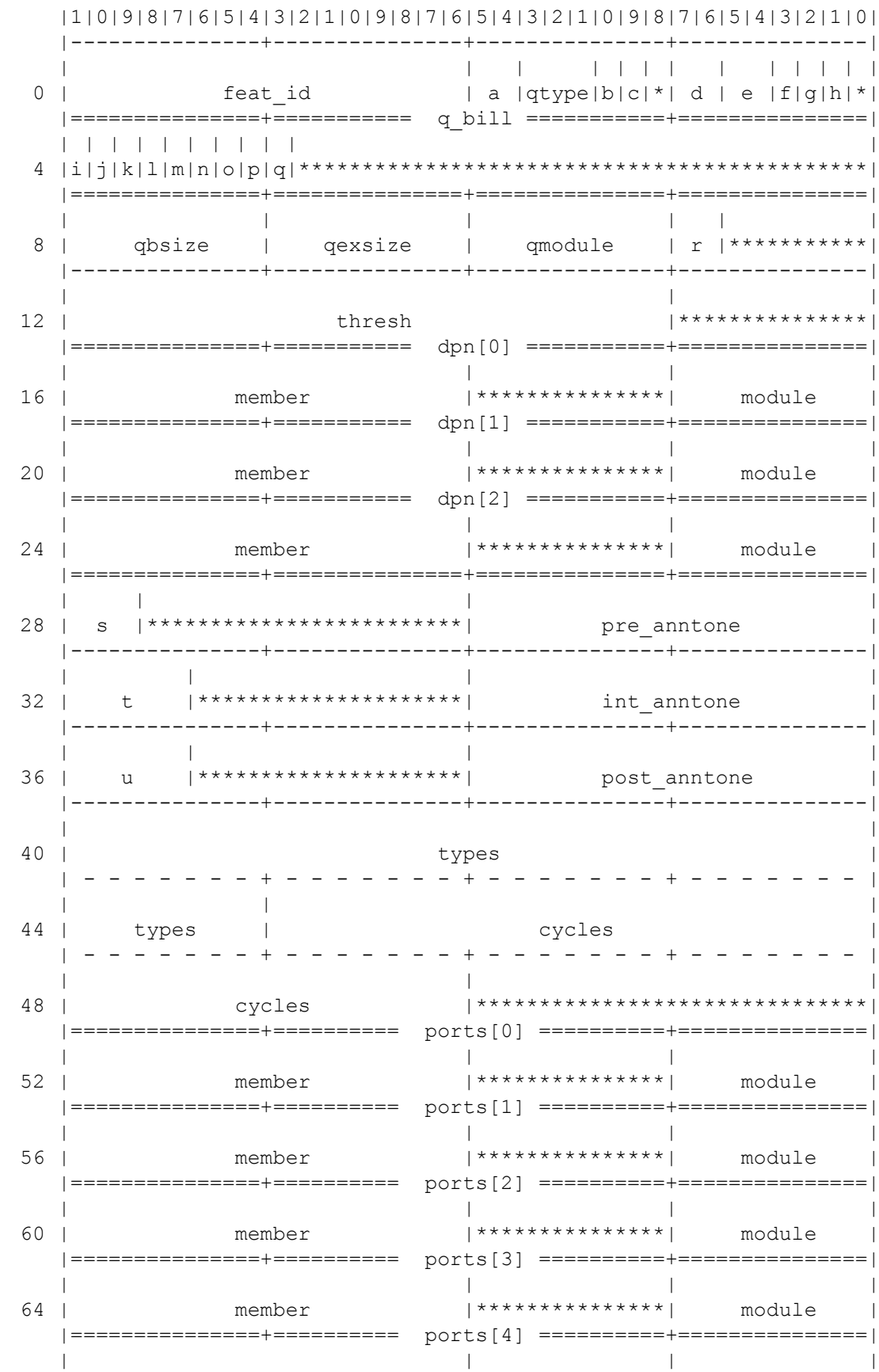


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```
 68 |             member            |***************|     module    |
    |===============+=========  music_port =========+===============|
    |                                |               |               |
 72 |             member            |***************|     module    |
    |===============+===============+===============+===============|
    |               |               |               |               |
 76 |   flex_first  |  warn_thresh  |  isat_thresh  |***************|
    |===============+========== qbusy_dpn ==========+===============|
    |                                |               |               |
 80 |             member            |***************|     module    |
    |===============+===============+===============+===============|
      ( 84 bytes )
```

## 4. Population Rules for RLqu_cfdfl

**Relation Description:** Queuing constructed feature defaults.

This is the constructed feature relation for multiline hunt group queuing features. These features are assigned to multiline hunt groups in order to provide queuing for calls terminating to the multiline hunt group when all members of the multiline hunt group are busy.

The following are preconstructed feature descriptions.

```
MODULAR QUEUING (FEATURE DEFINITION)
     1.  FEATURE              /QL
      2.  REMARKS              QUEUING FOR LINES
      3.  GROUP TYPE           LINE
      4.  QUEUE TYPE           MLHG
      5.  QACCESS CODES?       N
      6.  QINTERFLW?           N
      7.  CALL WT LMP?         N
      8.  SPCL DELAY TREAT?    N
     CHARGES
       9.  USAGE SENS?         N
      10.  DEACTIVATION?       N
      11.  USAGE FREQ?         N
      12.  DURATION?           N
      13.  BASIC SIZE          1
      14.  EXTENDED SIZE       0
      15.  MODULE              0
      16.  NUM OF CWL          0
      17.  CALL WAITING LAMPS
           ROW    THRESHOLD    DPN
           1         0       BLANK
           2         0       BLANK
           3         0       BLANK
     20.  NUM OF ANNCMTS       0
                 DELAY      DELAY
                  TONES      TIMING
     21.  PRE      AUD         0
     24.  INTER    AUD         0
     27.  POST     AUD
            ISAT ATTENDANT
     28.  QWARN THRESHOLD   BLANK
     29.  QBUSY DPN         BLANK
```

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```
30.  DELAY ANNOUNCEMENTS
      ROW     TYPE     CYCLES    ANNPORT
      1      NBARGE       0       BLANK
      2      NBARGE       0       BLANK
      3      NBARGE       0       BLANK
      4      NBARGE       0       BLANK
FLEXIBLE FIRST ANNOUNCEMENT
                                  THRESH
34.  TYPE     CYCLES   ANNPORT  VALUE
     NBARGE     0       BLANK      0
38.  MBDN     BLANK
39.  QUEUE THRESHOLD WARNING SIZE     0
 1.  FEATURE              /QLCWL
  2.  REMARKS              QUEUING FOR LINES WITH CWL
  3.  GROUP TYPE           LINE
  4.  QUEUE TYPE           MLHG
  5.  QACCESS CODES?       N
  6.  QINTERFLW?           N
  7.  CALL WT LMP?         Y
  8.  SPCL DELAY TREAT?    N
CHARGES
  9.  USAGE SENS?          N
 10.  DEACTIVATION?        N
 11.  USAGE FREQ?          N
 12.  DURATION?            N
 13.  BASIC SIZE           1
 14.  EXTENDED SIZE        0
 15.  MODULE               0
 16.  NUM OF CWL           0
 17.  CALL WAITING LAMPS
      ROW    THRESHOLD    DPN
       1         0       BLANK
       2         0       BLANK
       3         0       BLANK
 20.  NUM OF ANNCMTS       0
              DELAY     DELAY
              TONES     TIMING
 21.  PRE       AUD        0
 24.  INTER     AUD        0
 27.  POST      AUD
       ISAT ATTENDANT
 28.  QWARN THRESHOLD    BLANK
 29.  QBUSY DPN          BLANK
 30.  DELAY ANNOUNCEMENTS
      ROW      TYPE      CYCLES    ANNPORT
       1      NBARGE       0        BLANK
       2      NBARGE       0        BLANK
       3      NBARGE       0        BLANK
       4      NBARGE       0        BLANK
     FLEXIBLE FIRST ANNOUNCEMENT
                                    THRESH
 34.  TYPE     CYCLES   ANNPORT     VALUE
      NBARGE     0       BLANK        0
 38.  MBDN     BLANK
```

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```
 39.  QUEUE THRESHOLD WARNING SIZE     0
 1.  FEATURE              /QLDA
  2.  REMARKS              QUEUING FOR LINES WITH DELAY ANN.
  3.  GROUP TYPE           LINE
  4.  QUEUE TYPE           MLHG
  5.  QACCESS CODES?       N
  6.  QINTERFLW?           N
  7.  CALL WT LMP?         N
  8.  SPCL DELAY TREAT?    Y
CHARGES
  9.  USAGE SENS?          N
 10.  DEACTIVATION?        N
 11.  USAGE FREQ?          N
 12.  DURATION?            N
 13.  BASIC SIZE           1
 14.  EXTENDED SIZE        0
 15.  MODULE               0
 16.  NUM OF CWL           0
 17.  CALL WAITING LAMPS
      ROW    THRESHOLD    DPN
       1         0       BLANK
       2         0       BLANK
       3         0       BLANK
 20.  NUM OF ANNCMTS       0
              DELAY     DELAY
              TONES     TIMING
 21.  PRE       AUD        0
 24.  INTER     AUD        0
 27.  POST      AUD
       ISAT ATTENDANT
 28.  QWARN THRESHOLD     BLANK
 29.  QBUSY DPN                BLANK
 30.  DELAY ANNOUNCEMENTS
      ROW      TYPE      CYCLES    ANNPORT
       1      NBARGE       0        BLANK
       2      NBARGE       0        BLANK
       3      NBARGE       0        BLANK
       4      NBARGE       0        BLANK
     FLEXIBLE FIRST ANNOUNCEMENT
                                    THRESH
 34.  TYPE     CYCLES   ANNPORT     VALUE
      NBARGE     0       BLANK        0
 38.  MBDN     BLANK
 39.  QUEUE THRESHOLD WARNING SIZE     0
 1.  FEATURE              /QLCWLDA
  2.  REMARKS              QUEUING FOR LINES WITH CWL AND DA
  3.  GROUP TYPE           LINE
  4.  QUEUE TYPE           MLHG
  5.  QACCESS CODES?       N
  6.  QINTERFLW?           N
  7.  CALL WT LMP?         Y
  8.  SPCL DELAY TREAT?    Y
CHARGES
  9.  USAGE SENS?          N
```

```
 10.  DEACTIVATION?        N
 11.  USAGE FREQ?          N
 12.  DURATION?            N
 13.  BASIC SIZE           1
 14.  EXTENDED SIZE        0
 15.  MODULE               0
 16.  NUM OF CWL           0
 17.  CALL WAITING LAMPS
      ROW    THRESHOLD    DPN
       1         0       BLANK
       2         0       BLANK
       3         0       BLANK
 20.  NUM OF ANNCMTS       0
              DELAY     DELAY
              TONES     TIMING
 21.  PRE       AUD        0
 24.  INTER     AUD        0
 27.  POST      AUD
       ISAT ATTENDANT
 28.  QWARN THRESHOLD     BLANK
 29.  QBUSY DPN                BLANK
 30.  DELAY ANNOUNCEMENTS
      ROW      TYPE      CYCLES    ANNPORT
       1      NBARGE       0        BLANK
       2      NBARGE       0        BLANK
       3      NBARGE       0        BLANK
       4      NBARGE       0        BLANK
FLEXIBLE FIRST ANNOUNCEMENT        THRESH
 34.  TYPE     CYCLES   ANNPORT     VALUE
      NBARGE     0       BLANK        0
 38.  MBDN     BLANK
 39.  QUEUE THRESHOLD WARNING SIZE     0
 1.  FEATURE              /QISCWL
  2.  REMARKS              QUEUING FOR ISDN MLHG WITH CWLs
  3.  GROUP TYPE           LINE
  4.  QUEUE TYPE           MLHG
  5.  QACCESS CODES?       N
  6.  QINTERFLW?           N
  7.  CALL WT LMP?         Y
  8.  SPCL DELAY TREAT?    N
CHARGES
  9.  USAGE SENS?          N
 10.  DEACTIVATION?        N
 11.  USAGE FREQ?          N
 12.  DURATION?            N
 13.  BASIC SIZE           1
 14.  EXTENDED SIZE        0
 15.  MODULE               0
 16.  NUM OF CWL           0
 17.  CALL WAITING LAMPS
      ROW    THRESHOLD    DPN
       1         0       BLANK
       2         0       BLANK
       3         0       BLANK
```

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```
 18.  CWLAMP TYPE           FB
 19.  CWTRESHOLD TYPE    T
 20.  NUM OF ANNCMTS        0
              DELAY     DELAY
              TONES     TIMING
 21.  PRE       AUD        0
 24.  INTER     AUD        0
 27.  POST      AUD
 30.  DELAY ANNOUNCEMENTS
      ROW      TYPE      CYCLES    ANNPORT
       1      NBARGE       0        BLANK
       2      NBARGE       0        BLANK
       3      NBARGE       0        BLANK
       4      NBARGE       0        BLANK
     FLEXIBLE FIRST ANNOUNCEMENT
                                     THRESH
 34.  TYPE     CYCLES   ANNPORT     VALUE
      NBARGE     0       BLANK        0
 38.  MBDN     BLANK
 1.   FEATURE              /QISATCW
  2.  REMARKS               QUEUING FOR ISAT MLHG WITH CWLs
  3.  GROUP TYPE            LINE
  4.  QUEUE TYPE            MLHG
  5.  QACCESS CODES?        N
  6.  QINTERFLW?            N
  7.  CALL WT LMP?          Y
  8.  SPCL DELAY TREAT?     N
CHARGES
  9.  USAGE SENS?           N
 10.  DEACTIVATION?         N
 11.  USAGE FREQ?           N
 12.  DURATION?             N
 13.  BASIC SIZE            1
 14.  EXTENDED SIZE         0
 15.  MODULE                0
 16.  NUM OF CWL            0
 17.  CALL WAITING LAMPS
      ROW    THRESHOLD    DPN
       1         0       BLANK
       2         0       BLANK
       3         0       BLANK
 18.  CWLAMP TYPE           FB
 19.  CWTRESHOLD TYPE     N
 20.  NUM OF ANNCMTS        0
               DELAY     DELAY
               TONES     TIMING
 21.  PRE       AUD        0
 24.  INTER     AUD        0
 27.  POST      AUD
       ISAT ATTENDANT
 28.  QWARN THRESHOLD     BLANK
 29.  QBUSY DPN           BLANK
30.   DELAY ANNOUNCEMENTS
      ROW      TYPE      CYCLES    ANNPORT
```

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```
       1      NBARGE       0        BLANK
       2      NBARGE       0        BLANK
       3      NBARGE       0        BLANK
       4      NBARGE       0        BLANK
     FLEXIBLE FIRST ANNOUNCEMENT
                                     THRESH
 34.  TYPE     CYCLES   ANNPORT     VALUE
      NBARGE     0       BLANK        0
 38.  MBDN     BLANK
  1.  FEATURE              /QLCSD
  2.  REMARKS              QUEUING FOR CSD LINES
  3.  GROUP TYPE           LINE
  4.  QUEUE TYPE           CSD
  5.  QACCESS CODES?       N
  6.  QINTERFLW?           N
  7.  CALL WT LMP?         N
  8.  SPCL DELAY TREAT?    N
CHARGES
  9.  USAGE SENS?          N
 10.  DEACTIVATION?        N
 11.  USAGE FREQ?          N
 12.  DURATION?            N
 13.  BASIC SIZE           1
 14.  EXTENDED SIZE        0
 15.  MODULE               0
 16.  NUM OF CWL           0
 17.  CALL WAITING LAMPS
      ROW    THRESHOLD    DPN
       1         0       BLANK
       2         0       BLANK
       3         0       BLANK
 20.  NUM OF ANNCMTS       0
              DELAY     DELAY
              TONES     TIMING
 21.  PRE       AUD        0
 24.  INTER     AUD        0
 27.  POST      AUD
        ISAT ATTENDANT
 28.  QWARN THRESHOLD     BLANK
 29.  QBUSY DPN                BLANK
 30.  DELAY ANNOUNCEMENTS
      ROW      TYPE      CYCLES    ANNPORT
       1      NBARGE       0        BLANK
       2      NBARGE       0        BLANK
       3      NBARGE       0        BLANK
       4      NBARGE       0        BLANK
      FLEXIBLE FIRST ANNOUNCEMENT
                                     THRESH
 34.  TYPE     CYCLES   ANNPORT     VALUE
      NBARGE     0       BLANK        0
 38.  MBDN     BLANK
 39.  QUEUE THRESHOLD WARNING SIZE     0
```

**Attribute: feat_id**

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**Fullname:** feature identification

**Attribute Description** This is the constructed feature ID.
The value is computed accordingly: top 6 bits (10 - 15): MFQU (14 [0xe]) (see DMmftyp.G), bottom ten bits (0 - 9): 1 - 1023 (0x1 - 0x3ff)

**Attribute: grptype**

**Fullname:** group type

**Attribute Description** This is the type of group to queue for. Since this relation is used only for multiline hunt group queuing constructed features grptyp is always TM_QLINE.

**Attribute: qtype**

**Fullname:** queue type

**Attribute Description** This is the type of queuing. Q_MLHG is queuing for voice multiline hunt groups. Q_CSD is queuing for circuit switched data multiline hunt groups.

**Attribute: cwl**

**Fullname:** call waiting lamps allowed

**Attribute Description** If this is DBYES then the queue has call waiting lamps.
If this is DBNO then the queue does not have call waiting lamps.

**Attribute: spl_dlytreat**

**Fullname:** special in-band delay treatment allowed

**Attribute Description** If spl_dlytreat is DBYES then the queue has in-band delay treatment.
If spl_dlytreat is DBNO then the queue does not have in-band delay treatment. In-band delay treatment consists of announcements.

**Attribute: lmptyp**

**Fullname:** call waiting lamp type

**Attribute Description** If lmptyp is IS_FB then the call waiting lamps are feature button lamps on an ISDN terminal.
If lmptyp is IS_DP then the call waiting lamps are distribution point lamps.
If lmptyp is IS_LTNULL then there are no call waiting lamps for this queue.
ISAT groups must use feature button call waiting lamps.

**Attribute: threstyp**

**Fullname:** call waiting threshold type

**Attribute Description** If threstyp is IS_N then the call waiting lamp should be lit when the NUMBER of calls in the queue exceeds the call waiting threshold. The threstyp IS_N is used for ISAT multiline hunt groups.
If threstyp is IS_T then the call waiting lamp should be lit when the TIME of the longest call in the queue exceeds the call waiting threshold.
If threstyp is IS_THNULL then the MLHG does not have call waiting lamps.

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**Attribute: qinterfl**

**Fullname:** queue interflow allowed

**Attribute Description** If quinterfl is DBYES then queue interflow is allowed.
If quinterfl is DBNO then queue interflow is not allowed.

**Attribute: sada**

**Fullname:** service after delay announcement

**Attribute Description** If sada is DBYES then the service after delay feature is active for the multiline hunt group.
If sada is DBNO then the service after delay feature is not active for the multiline hunt group.

**Attribute: ann_bill**

**Fullname:** announcement billing

**Attribute Description** If ann_bill is DBYES then billing begins when a queued call is connected to announcement.
If ann_bill is DBNO then billing begins when a queued call is connected to a multiline hunt group member.

**Attribute: q_bill**

**Fullname:** type of billing for queuing

**Attribute Description** q_bill is a boolean structure indicating the combination of several types of billing that apply to the queuing feature. Only flat rate billing is supported for queuing features.

**Attribute: q_bill.flat**

**Fullname:** flat rate billing for queuing

**Attribute Description** If q_bill.flat is DBYES then flat rate billing is used for this queuing feature.
If q_bill.flat is DBNO then usage sensitive billing is used for this queuing feature.

**Attribute: q_bill.usefreq1**

**Fullname:** user frequency charge for use of event 1

**Attribute Description** If q_bill.usefreq1 is DBYES then billing for event 1 applies to this feature.
If q_bill.usefreq1 is DBNO then billing for event 1 does not apply to this feature.

**Attribute: q_bill.usefreq2**

**Fullname:** user frequency charge for use of event 2

**Attribute Description** If q_bill.usefreq2 is DBYES then billing for event 2 applies to this feature.
If q_bill.usefreq2 is DBNO then billing for event 2 does not apply to this feature.

**Attribute: q_bill.usefreq3**

**Fullname:** user frequency charge for use of event 3

**Attribute Description** If q_bill.usefreq3 is DBYES then billing for event 3 applies to this feature.

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If q_bill.usefreq3 is DBNO then billing for event 3 does not apply to this feature.

**Attribute: q_bill.usefreq4**

**Fullname:** user frequency charge for use of event 4

**Attribute Description** If q_bill.usefreq4 is DBYES then billing for event 4 applies to this feature.
If q_bill.usefreq4 is DBNO then billing for event 4 does not apply to this feature.

**Attribute: q_bill.actchrg**

**Fullname:** user charge for activation

**Attribute Description** If q_bill.actchrg is DBYES then billing for activation applies to this feature.
If q_bill.actchrg is DBNO then billing for activation does not apply to this feature.

**Attribute: q_bill.dactchrg**

**Fullname:** user charge for deactivation

**Attribute Description** If q_bill.dactchrg is DBYES then billing for deactivation applies to this feature.
If q_bill.dactchrg is DBNO then billing for deactivation does not apply to this feature.

**Attribute: q_bill.duration**

**Fullname:** user charge for duration of use

**Attribute Description** If q_bill.duration is DBYES then billing for feature usage applies to this feature.
If q_bill.duration is DBNO then billing for feature usage does not apply to this feature.

**Attribute: q_bill.change**

**Fullname:** user charge for change of parameter

**Attribute Description** If q_bill.change is DBYES then billing for changing a parameter applies to this feature.
If q_bill.change is DBNO then billing for changing a parameter does not apply to this feature.

**Attribute: qbsize**

**Fullname:** queue basic size

**Attribute Description** qbsize is the default value for the queue basic size.
The actual queue basic size is stored in RLqu_os.G when the feature is assigned. The queue basic size is how many calls are allowed in the basic portion of the queue.

**Attribute: qexsize**

**Fullname:** queue extended size

**Attribute Description** qesize is the default value for the queue extended size.
The actual queue extended size is stored in RLqu_os.G when the feature is assigned. The queue extended size is how many calls are allowed in the extended portion of the queue. The extended portion of the queue is reserved for Foreign Exchange (FX) calls.

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**Attribute: qmodule**

**Fullname:** queuing module

**Attribute Description** qmodule is the default parameter for the queuing module. To better use the resources of the switch it is recommended that the queuing module is the same as the hunting module for the MLHG (RLrt_mhg.module). This is accomplished by setting qmodule equal to RLrt_mhg.module for the MLHG which this queuing feature will be assigned to.

If the qmodule field is non-zero then it must specify an SM which exists in the office.

**Attribute: numcwl**

**Fullname:** number of call waiting lamps assigned

**Attribute Description** numcwl specifies the number of call waiting lamps thresholds that are defined for this queuing feature. For non-ISAT call waiting lamps (threstyp = IS_T) there may be up to 3 call waiting lamp thresholds. For ISAT call waiting lamps (threstyp = IS_N) there can be at most one call waiting lamp threshold.

All call waiting lamps for non-ISAT MLHGs are based on a call waiting lamp threshold. Therefore, for non-ISAT MLHGs numcwl is the number of call waiting lamps assigned to the queue.

ISAT MLHGs can have one call waiting lamp based on a call waiting lamp threshold and another call waiting lamp that turns on if at least one call is queued. The ISAT call waiting lamp that turns on if at least one call is queued does not use a threshold. Therefore, for ISAT queuing features numcwl is not necessarily the number of call waiting lamps available to the MLHG. For ISAT queuing features numcwl is 0 if cwth1 is 0. For ISAT queuing features numcwl is 1 if cwth1 is non-zero.

**Attribute: cwth1**

**Fullname:** call waiting lamp threshold 1

**Attribute Description** cwth1 is the threshold size for call waiting lamp 1. The threshold size refers to the number of calls in the queue if threstyp is IS_N. Threstyp IS_N is used only for ISAT MLHGs. ISAT MLHGs only use cwth1. Therefore, cwth2 and cwth3 can never be used to refer to the number of calls in the queue.

The threshold size refers to the length of time (in seconds) of the oldest call in the queue if threstyp is IS_T. If the threshold refers to time the maximum value is 31.

**Attribute: cwth2**

**Fullname:** call waiting lamp threshold 2

**Attribute Description** cwth2 is the threshold size for call waiting lamp 2. The threshold size refers to the length of time (in seconds) of the oldest call in the queue.

**Attribute: cwth3**

**Fullname:** call waiting lamp threshold 3

**Attribute Description** cwth3 is the threshold size for call waiting lamp 3. The threshold size refers to the length of time (in seconds) of the oldest call in the queue.

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**Attribute: cwl_sd1**

**Fullname:** call waiting lamp signal distribution point 1

**Attribute Description** cwl_sd1 is the signal distribution point for call waiting lamp 1.

**Attribute: cwl_sd1.member**

**Fullname:** call waiting lamp 1 port

**Attribute Description** cwl_sd1.member is the signal distribution point port for call waiting lamp 1.

**Attribute: cwl_sd1.module**

**Fullname:** call waiting lamp 1 module

**Attribute Description** cwl_sd1.module is the signal distribution point module for call waiting lamp 1.

**Attribute: cwl_sd2**

**Fullname:** call waiting lamp 2 signal distribution point

**Attribute Description** cwl_sd2 is the signal distribution point for call waiting lamp 2.

**Attribute: cwl_sd2.member**

**Fullname:** call waiting lamp 2 port

**Attribute Description** cwl_sd2.member is the signal distribution point port for call waiting lamp 2.

**Attribute: cwl_sd2.module**

**Fullname:** call waiting lamp 2 module

**Attribute Description** cwl_sd2.module is the signal distribution point module for call waiting lamp 2.

**Attribute: cwl_sd3**

**Fullname:** call waiting lamp 3 signal distribution point

**Attribute Description** cwl_sd3 is the signal distribution point for call waiting lamp 3.

**Attribute: cwl_sd3.member**

**Fullname:** call waiting lamp 3 port

**Attribute Description** cwl_sd3.member is the signal distribution point port for call waiting lamp 3.

**Attribute: cwl_sd3.module**

**Fullname:** call waiting lamp 3 module

**Attribute Description** cwl_sd3.module is the signal distribution point module for call waiting lamp 3.

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**Attribute: numann**

**Fullname:** number of announcements assigned (excluding flexible first)

**Attribute Description** numann is the number of announcements that are used as in-band delay treatment when calls are queued.

**Attribute: pre_anntone**

**Fullname:** pre-announcement tone

**Attribute Description** pre_anntone is PCTAUD if audible ringing is to be used before the first announcement.
pre_anntone is PCTIDLE if silence is to be used before the first announcement.

**Attribute: pre_ann_dly**

**Fullname:** pre-announcement delay

**Attribute Description** pre_ann_dly is the tone interval before the first announcement. Each interval represents a six second duration.

**Attribute: int_anntone**

**Fullname:** inter-announcement tone

**Attribute Description** int_anntone is PCTAUD if an audible ringing is to be used between announcements.
int_anntone is PCTIDLE if silence is to be used between announcements.
int_anntone is PCMUSIC if music tone is to be used between announcements.

**Attribute: int_ann_dly**

**Fullname:** inter announcement delay

**Attribute Description** int_ann_dly is the tone interval between announcements. Each interval represents a six second duration.

**Attribute: post_anntone**

**Fullname:** post-announcement tone

**Attribute Description** post_anntone is PCTAUD if an audible ringing is to be used after the last announcement.
post_anntone is PCTIDLE if silence is to be used after the last announcement.
post_anntone is PCMUSIC if music tone is to be used after the last announcement.

**Attribute: ann1typ**

**Fullname:** announcement 1 type (barge-in or nonbarge-in)

**Attribute Description** If ann1type is QU_BARGE then announcement 1 is a barge-in announcement.
If ann1type is QU_NBARGE then announcement 1 is a nonbarge-in announcement.

**Attribute: ann2typ**

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**Fullname:** announcement 2 type (barge-in or nonbarge-in)

**Attribute Description** If ann2type is QU_BARGE then announcement 2 is a barge-in announcement.
If ann2type is QU_NBARGE then announcement 2 is a nonbarge-in announcement.

**Attribute: ann3typ**

**Fullname:** announcement 3 type (barge-in or nonbarge-in)

**Attribute Description** If ann3type is QU_BARGE then announcement 3 is a barge-in announcement.
If ann3type is QU_NBARGE then announcement 3 is a nonbarge-in announcement.

**Attribute: ann4typ**

**Fullname:** announcement 4 type (barge-in or nonbarge-in)

**Attribute Description** If ann4type is QU_BARGE then announcement 4 is a barge-in announcement.
If ann4type is QU_NBARGE then announcement 4 is a nonbarge-in announcement.

**Attribute: ann5typ**

**Fullname:** announcement 5 type (barge-in or nonbarge-in)

**Attribute Description** If ann5type is QU_BARGE then announcement 5 is a barge-in announcement.
If ann5type is QU_NBARGE then announcement 5 is a nonbarge-in announcement.

**Attribute: ann1cycl**

**Fullname:** number of cycles for announcement 1

**Attribute Description** ann1cycle is the number of repetitions (cycles) for announcement 1.
If announcement 1 is the last announcement then the number of number of cycles can be zero to indicate continuous play.

**Attribute: ann2cycl**

**Fullname:** number of cycles for announcement 2

**Attribute Description** ann2cycle is the number of repetitions (cycles) for announcement 2.
If announcement 2 is the last announcement then the number of number of cycles can be zero to indicate continuous play.

**Attribute: ann3cycl**

**Fullname:** number of cycles for announcement 3

**Attribute Description** ann3cycle is the number of repetitions (cycles) for announcement 3.
If announcement 3 is the last announcement then the number of number of cycles can be zero to indicate continuous play.

**Attribute: ann4cycl**

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**Fullname:** number of cycles for announcement 4

**Attribute Description** ann4cycle is the number of repetitions (cycles) for announcement 4. If announcement 4 is the last announcement then the number of number of cycles can be zero to indicate continuous play.

**Attribute: ann5cycl**

**Fullname:** number of cycles for the flexible first announcement

**Attribute Description** ann5cycle is the number of repetitions (cycles) for announcement 5. The number of cycles can be zero to indicate continuous play.

**Attribute: ann1port**

**Fullname:** port for announcement 1

**Attribute Description** ann1port is the port for announcement 1.

**Attribute: ann1port.member**

**Fullname:** announcement 1 port

**Attribute Description** ann1port.member is the port name of the announcement trunk for announcement 1.

**Attribute: ann1port.module**

**Fullname:** announcement 1 module

**Attribute Description** ann1port.module is the switching module of the announcement trunk for announcement 1.

**Attribute: ann2port**

**Fullname:** port for announcement 2

**Attribute Description** ann2port is the port for announcement 2.

**Attribute: ann2port.member**

**Fullname:** announcement 2 port

**Attribute Description** ann2port.member is the port name of the announcement trunk for announcement 2.

**Attribute: ann2port.module**

**Fullname:** announcement 2 module

**Attribute Description** ann2port.module is the switching module of the announcement trunk for announcement 2.

**Attribute: ann3port**

**Fullname:** port for announcement 3

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**Attribute Description** ann3port is the port for announcement 3.

**Attribute: ann3port.member**

**Fullname:** announcement 3 port

**Attribute Description** ann3port.member is the port name of the announcement trunk for announcement 3.

**Attribute: ann3port.module**

**Fullname:** announcement 3 module

**Attribute Description** ann3port.module is the switching module of the announcement trunk for announcement 3.

**Attribute: ann4port**

**Fullname:** port for announcement 4

**Attribute Description** ann4port is the port for announcement 4.

**Attribute: ann4port.member**

**Fullname:** announcement 4 port

**Attribute Description** ann4port.member is the port name of the announcement trunk for announcement 4.

**Attribute: ann4port.module**

**Fullname:** announcement 4 module

**Attribute Description** ann4port.module is the switching module of the announcement trunk for announcement 4.

**Attribute: ann5port**

**Fullname:** port for announcement 5

**Attribute Description** ann5port is the port for announcement 5.
Announcement 5 is the flexible first announcement. The flexible first announcement is played in place of announcement one if the age of the oldest call on the queue is greater than the threshold specified in RLqu_cfdfl.flex_first.

**Attribute: ann5port.member**

**Fullname:** announcement 5 port

**Attribute Description** ann5port.member is the port name of the announcement trunk for announcement 5.

**Attribute: ann5port.module**

**Fullname:** announcement 5 module

**Attribute Description** ann5port.module is the switching module of the announcement trunk for

announcement 5.

**Attribute: music_port**

**Fullname:** music port.

**Attribute Description** The music_port is the port for the music delay treatment. The structure members are:

(1) member(DMport): Port name of the music port

(2) module(DMmodule): The SM number that this port terminates on

**Attribute: music_port.member**

**Fullname:** music port member.

**Attribute Description** music_port.member is the trunk port to be used to provide music.

**Attribute: music_port.module**

**Fullname:** music port module.

**Attribute Description** music_port.module is the switching module of the trunk for the music port.

**Attribute: flex_first**

**Fullname:** flexible first - threshold value (in six-second intervals) for the alternate first announcement

**Attribute Description** flex_first is the threshold value for the alternate first announcement. Ann5port is the alternate first announcement. The flex_first threshold is in six second intervals. If the oldest call on the queue has been queued longer than flex_first six second intervals than the flexible first announcement (announcement 5) is played instead of the first announcement when subsequent calls are queued.

**Attribute: warn_thresh**

**Fullname:** Threshold size for queue threshold warning lamps on queue monitor consoles that monitor the queue

**Attribute Description** Warn_thresh is used for multiline hunt group queues which are monitored by queue monitor consoles. When the number of calls in the queue exceeds warn_thresh the queue threshold warning lamps on all queue monitor consoles monitoring the MLHG queue are lit. When the number of calls in the queue is equal to or less than warn_thresh the queue threshold warning lamps are turned off.

**Attribute: isat_thresh**

**Fullname:** ISAT threshold value for QWARN lamp

**Attribute Description** isat_thresh is used for ISAT MLHGs that have a QWARN lamp. When the number of calls in the basic portion of the queue (excluding those residing in reserved emergency slots) exceeds the isat_thresh value, the QWARN lamp is lit on all consoles that have one. When this number falls below isat_thresh, the QWARN lamp is extinguished.

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**Attribute: qbusy_dpn**

**Fullname:** Queue Busy Distribution Point

**Attribute Description** Used for an ISAT MLHG to alert when the queue is full.

**Attribute: qbusy_dpn.member**

**Fullname:** Queue Busy Distribution Point Port

**Attribute Description** qbusy_dpn.member is the physical port that the distribution point is located on.

**Attribute: qbusy_dpn.module**

**Fullname:** Queue Busy Distribution Point Module

**Attribute Description** qbusy_dpn.module is the module that the distribution point is associated with.

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# QU_CWL

## 1. Description

This relation contains the calls waiting lamps parameter data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
QU_CWL      relid = 612   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     portgrp     DMQPORTGRP   (struct)     <--- key
         grpnum      DMGRPNUM     (ushort)
 (a)     grptype     DMQPTYPE     (enum: 2)
 (b) numcwl      DMUNS2       (ushort: 2)
     cwth1       DMUNS5NB     (uchar)
     cwth2       DMUNS5NB     (uchar)
     cwth3       DMUNS5NB     (uchar)
     cwl_sd1     DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     cwl_sd2     DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     cwl_sd3     DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout QU_CWL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+=========== portgrp ===========+===============|
    |                                |           |   |               |
  0 |             grpnum             |***********| a |***************|
    |===============+===============+===============+===============|
    |   |           |               |               |               |
  4 | b |***********|     cwth1     |     cwth2     |     cwth3     |
    |===============+=========== cwl_sd1 ===========+===============|
    |                                |               |               |
  8 |             member             |***************|     module    |
    |===============+=========== cwl_sd2 ===========+===============|
    |                                |               |               |
 12 |             member             |***************|     module    |
    |===============+=========== cwl_sd3 ===========+===============|
    |                                |               |               |
 16 |             member             |***************|     module    |
    |===============+===============+===============+===============|
```

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```
       ( 20 bytes )
domain alQU_CWL   struct  (4 sub-attributes)
         portgrp     .2fake       (struct)
              grpnum      unsigned short (ushort)
  (a)         grptype     .1fake       (enum)
  (b)      numcwl      .2.fake      (ushort: 2)
           thresh      .3.fake      (array [ 3 ] of unsigned char )
           dpn         .4.fake      (array [ 3 ] of .0fake )
              member      unsigned short (ushort)
              module      .0.fake      (ushort)

         Structure Layout      alQU_CWL
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+=========== portgrp ===========+===============|
    |                                 |           |   |               |
  0 |             grpnum              |***********| a |***************|
    |===============+===============+===============+===============|
    |   |           |                                                 |
  4 | b |***********|                     thresh                      |
    |===============+===========  dpn[0] ===========+===============|
    |                                 |               |               |
  8 |             member              |***************|     module    |
    |===============+===========  dpn[1] ===========+===============|
    |                                 |               |               |
 12 |             member              |***************|     module    |
    |===============+===========  dpn[2] ===========+===============|
    |                                 |               |               |
 16 |             member              |***************|     module    |
    |===============+===============+===============+===============|
       ( 20 bytes )
```

## 4. Population Rules for RLqu_cwl

**Relation Description**
calls waiting lamps parameter data

This relation contains multiline hunt group (MLHG) call waiting lamp information. Call waiting lamps are used to indicate how long calls have been queued for a MLHG. As many as three different call waiting lamps can be provided per MLHG. This relations defines the call waiting lamp distribution points and the call waiting lamp threshold values. When a call is queued longer than a call waiting lamp threshold the call waiting lamp is turned on. The RLqu_cwl tuple is populated on the MLHG queuing module. This relation defines analog distribution point call waiting lamps. A separate relation (RLisqu_cwl) is used to define ISDN feature button call waiting lamps.

**Attribute: portgrp**

**Fullname:** modular queuing port group

**Attribute Description** This is the key to owner relation. if TM_QLINE is specified, then there must be a RLrt_mhg tuple keyed by RLqu_cwl.portgrp.grpnum

In that RLrt_mhg tuple RLrt_mhg.qfid must be non-NULL. There must be a RLqu_cfdfl tuple keyed by RLrt_mhg.qfid. In that RLqu_cfdfl tuple RLqu_cfdfl.cwl must be DBYES and RLqu_cfdfl.lmptyp must be IS_DP (distribution point) and RLqu_cfdfl.threshtyp must be IS_T (call waiting lamp threshold based on time).

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**Attribute: portgrp.grpnum**

**Fullname:** multiline hunt group number

**Attribute Description** decimal number assigned to a multiline hunt group.

**Attribute: portgrp.grptype**

**Fullname:** group type

**Attribute Description** This attribute must be TM_QLINE since call waiting lamps are only provided for multiline hunt group queues. Trunk and Simulated Facility Group (SFG) queues do not provide call waiting lamps.

**Attribute: numcwl**

**Fullname:** number of calls waiting lamps allowed

**Attribute Description** This is the number of call waiting lamps provided for the multiline hunt group

**Attribute: cwth[*]**

**Fullname:** call waiting lamp threshold value

**Attribute Description** These are the call waiting lamp threshold values. The call waiting lamp thresholds are in six second intervals. When the age of the oldest call on the queue reaches cwth1 the first call waiting lamp (cwl_sd1) is turned on. If more than on call waiting lamp is provided then when the age of the oldest queued call reaches cwth2 the first call waiting lamp (cwl_sd1) is turned off and the second lamp (cwl_sd2) is turned on.
If 3 call waiting lamps are provided then call waiting lamp 2 is turned off and call waiting lamp 3 is turned on when the age of the oldest queued call reaches cwth3. cwth1 < cwth2 < cwth3

**Attribute: cwl_sd[*]**

**Fullname:** calls waiting lamp signal distribution point

**Attribute Description**

```
If cwth1 is non 0 then cwl_sd1 must not be 0.
If cwl_sd1 is non 0 then cwth1 must not be 0.
If cwth2 is non 0 then cwl_sd2 must not be 0.
If cwl_sd2 is non 0 then cwth2 must not be 0.
If cwth3 is non 0 then cwl_sd3 must not be 0.
If cwl_sd3 is non 0 then cwth3 must not be 0.
There must be a tuple in RLfc_porttyp keyed by each non 0 cwl_sd, and
RLfc_porttyp.servclass must = PF_LAMP.
Non-zero call waiting lamp signal distribute points must be unique.
If cwl_sd1 is non 0 then
        cwl_sd1 must not equal cwl_sd2.
        cwl_sd1 must not equal cwl_sd3.
        cwl_sd1 must not equal cwl_sd1, cwl_sd2 or cwl_sd3
        in any other RLqu_cwl tuple.
If cwl_sd2 is non 0 then
        cwl_sd2 must not equal cwl_sd1.
        cwl_sd2 must not equal cwl_sd3.
        cwl_sd2 must not equal cwl_sd1, cwl_sd2 or cwl_sd3
```

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```
        in any other RLqu_cwl tuple.
If cwl_sd3 is non 0 then
        cwl_sd3 must not equal cwl_sd1.
        cwl_sd3 must not equal cwl_sd2.
        cwl_sd3 must not equal cwl_sd1, cwl_sd2 or cwl_sd3
        in any other RLqu_cwl tuple.
```

**Attribute: cwl_sd[*].member**

**Fullname:** port name

**Attribute Description** port name of a port

**Attribute: cwl_sd[*].module**

**Fullname:** the SM number

**Attribute Description** This is the SM number that this port terminates on.

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# QU_DLY

## 1. Description

This relation that contains delay announcement parameters for queuing.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 1024 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
QU_DLY      relid = 613   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL


    portgrp     DMQPORTGRP   (struct)  <--- key
        grpnum      DMGRPNUM     (ushort)
(a)     grptype     DMQPTYPE     (enum: 2)
(b) numann      DMUNS3       (ushort: 3)
    ann1typ     DMQANTYPE    (enum)
    ann2typ     DMQANTYPE    (enum)
    ann3typ     DMQANTYPE    (enum)
    ann4typ     DMQANTYPE    (enum)
    ann5typ     DMQANTYPE    (enum)
    ann1cycl    DMQANCYCL    (uchar)
    ann2cycl    DMQANCYCL    (uchar)
    ann3cycl    DMQANCYCL    (uchar)
    ann4cycl    DMQANCYCL    (uchar)
    ann5cycl    DMQANCYCL    (uchar)
    ann1port    DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    ann2port    DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    ann3port    DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    ann4port    DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    ann5port    DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    music_port  DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    pre_anntone  DMTONE       (enum)
    int_anntone  DMTONE       (enum)
```

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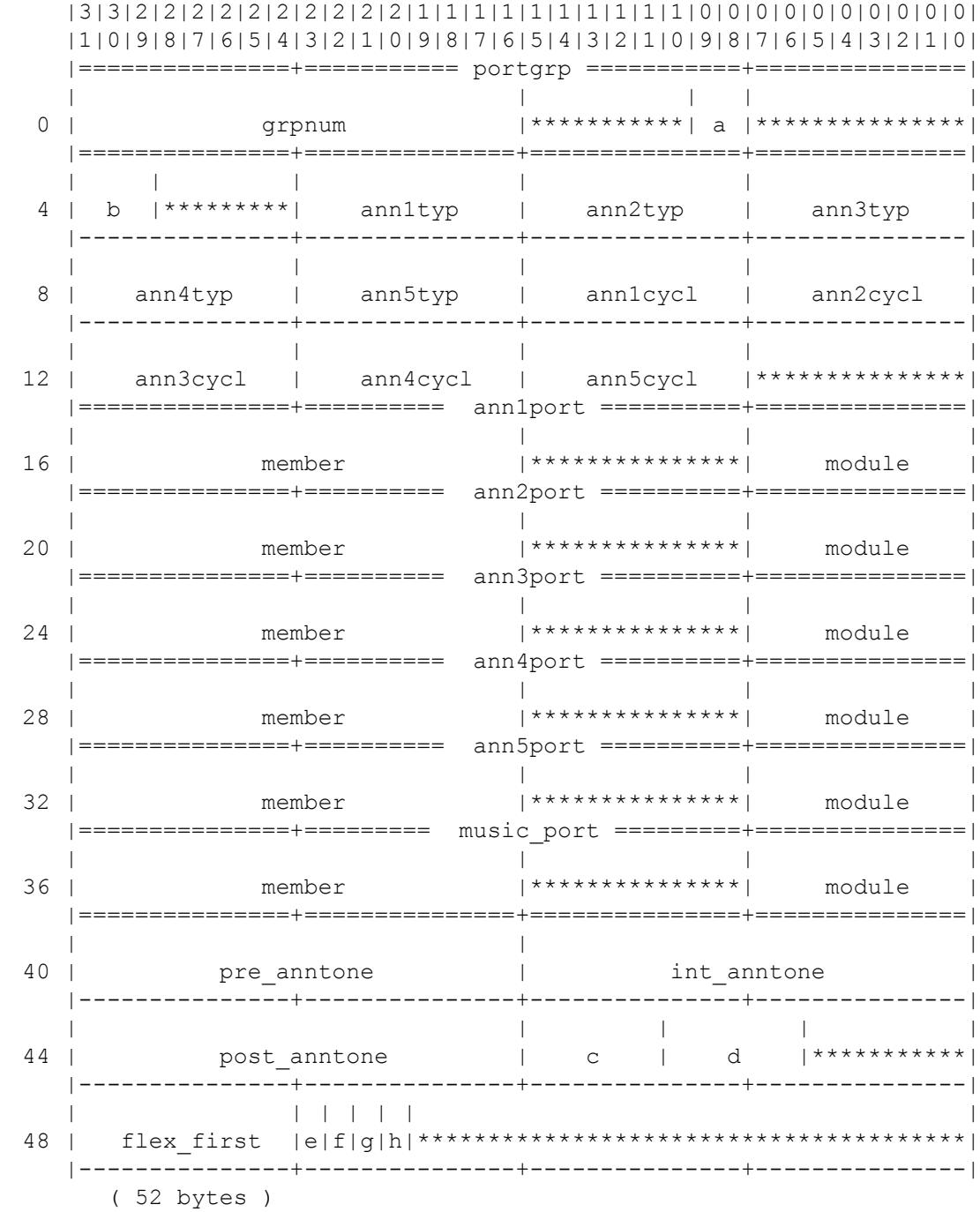
```
    post_anntone  DMTONE       (enum)
(c) pre_ann_dly  DMUNS5       (ushort: 5)
(d) int_ann_dly  DMUNS5       (ushort: 5)
    flex_first  DMUNS8       (ushort: 8)
(e) sada        DMBOOL       (enum: 1)
(f) ann_bill    DMBOOL       (enum: 1)
(g) freeterm    DMBOOL       (enum: 1)
(h) ffcf1       DMBOOL       (enum: 1)
```

User, Compacted and Stored Tuple Layout QU_DLY




( 52 bytes )

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```
domain alQU_DLY   struct  (16 sub-attributes)
         portgrp     .2fake       (struct)
             grpnum      unsigned short (ushort)
 (a)         grptype     .1fake       (enum)
 (b)     numann      .13.fake     (ushort: 3)
         types       .14.fake     (array [ 5 ] of .3fake )
         cycles      .15.fake     (array [ 5 ] of unsigned char )
         ports       .16.fake     (array [ 5 ] of .0fake )
             member      unsigned short (ushort)
             module      .0.fake      (ushort)
         music_port  .0fake       (struct)
             member      unsigned short (ushort)
             module      .0.fake      (ushort)
         pre_anntone  .17.fake     (enum)
         int_anntone  .18.fake     (enum)
         post_anntone  .19.fake     (enum)
 (c)     pre_ann_dly  .20.fake     (ushort: 5)
 (d)     int_ann_dly  .21.fake     (ushort: 5)
         flex_first  .22.fake     (ushort)
 (e)     sada        .5fake       (enum)
 (f)     ann_bill    .5fake       (enum)
 (g)     freeterm    .5fake       (enum)
 (h)     ffcf1       .5fake       (enum)
                    Structure Layout      alQU_DLY
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+=========== portgrp ===========+===============|
    |                               |           |   |               |
 0  |             grpnum            |***********| a |***************|
    |===============+===============+===============+===============|
    |     |         |                                               |
 4  |  b  |*********|                     types                     |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 8  |             types             |             cycles            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                 |               |
 12 |                     cycles                      |***************|
    |===============+==========  ports[0] ==========+===============|
    |                               |               |               |
 16 |             member            |***************|     module    |
    |===============+==========  ports[1] ==========+===============|
    |                               |               |               |
 20 |             member            |***************|     module    |
    |===============+==========  ports[2] ==========+===============|
    |                               |               |               |
 24 |             member            |***************|     module    |
    |===============+==========  ports[3] ==========+===============|
    |                               |               |               |
 28 |             member            |***************|     module    |
    |===============+==========  ports[4] ==========+===============|
    |                               |               |               |
 32 |             member            |***************|     module    |
    |===============+=========  music_port =========+===============|
```

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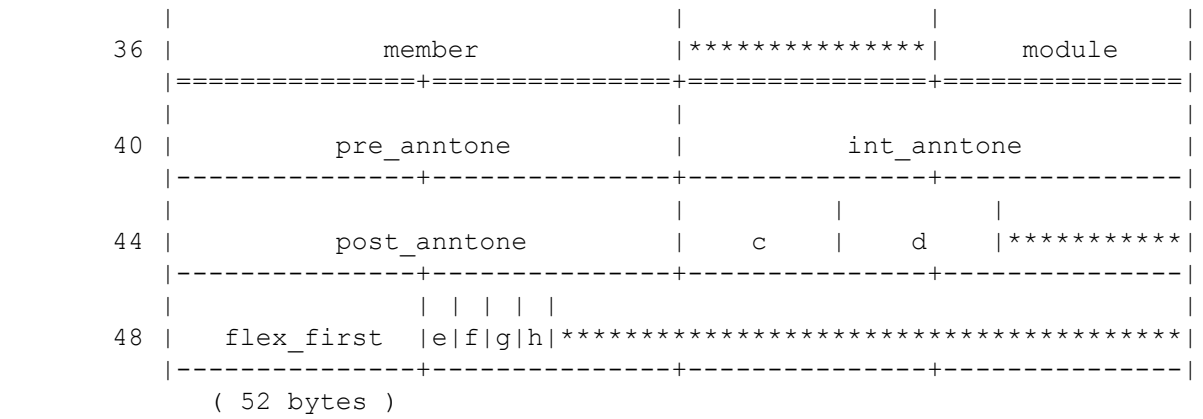


## 4. Population rules for RLqu_dly

### Relation Description

Queuing delay.

Relation that contains delay announcement parameters for queuing.

**Attribute:**

portgrp

**Fullname:**

Port group.

**Attribute Description:**

This attribute is the key for this relation
and is divided into subattributes portgrp.grpnum
and portgrp.grptype. The structure members are:

1. Portgrp.grpnum: decimal number assigned
   to a multiline hunt group, a Simulated
   Facility Group (SFG) or a trunk group.
2. Portgrp.grptype: enumerated field indicating
   the group type

NOTE: This relation should only be populated if one of the
following is satisfied:

```
portgrp.grptype == TM_QLINE and
RLqu_cfdfl.spl_dlytreat == DBYES
where RLqu_cfdfl is keyed by RLrt_mhg.qfid
and RLrt_mhg is keyed by portgrp.grpnum.
or
portgrp.grptype == TM_QTRK and
(RLqu_tcfdf.spl_dlytreat == DBYES or
RLqu_tcfdf.pri_spl_dly == DBYES) for OFFHOOK queuing or
RLqu_tcfdf.pri_spl_dly == DBYES for RGBK queuing
where RLqu_tcfdf is keyed by RLrt_trkg.qfid
where RLrt_trkg is keyed by portgrp.grpnum.
or
portgrp.grptype == TM_QSFG and
RLqu_tcfdf.spl_dlytreat == DBYES or
RLqu_tcfdf.pri_spl_dly == DBYES
```

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```
            where RLqu_tcfdf is keyed by RLrt_sfg.qfid
            where RLrt_sfg is keyed by portgrp.grpnum.
```

**Attribute:**
portgrp.grpnum
**Fullname:**
group number
**Attribute Description:**
group number

**Attribute:**
portgrp.grptype
**Fullname:**
group type
**Attribute Description:**
group type.

**Attribute:**
numann
**Fullname:**
number of announcement.
**Attribute Description:**
Number of announcements (excluding flexible first)

**Attribute:**
ann[*]typ
**Fullname:**
announcement type.
**Attribute Description:**
Announcement type (barge-in or nonbarge-in) .
Ann5type is used ONLY for flexible first announcement

if ann[x]port is not assigned, ann[x]type must be QU_NBARGE.

**Attribute:**
ann[*]cycl
**Fullname:**
announcement cycle.
**Attribute Description:**
Announcement cycles: for up to 5 announcements.
From 0 to 4 cycles per announcement.
Ann5cycle is used ONLY for the flexible first
announcement.

General Purpose Assignment:
if ann[x]cycl!=0 and ann[x]port is assigned
then x <= numann.

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Special Assignment:
(where the last an/or the Flexible First
Announcement is to be used as a Continuous
(music) Announcement): if ann[x]cycl=0 and
ann[x]port is assigned then x=numann (last)
or x=5 (flexible first).

**Attribute:**
ann[*]port
**Fullname:**
announcement port.
**Attribute Description:**
Announcement ports for up to five announcements.
Member is the port name of a trunk that should
be assigned as an announcement trunk in relation
RLfc_trunk. Module refers to the Interface Module
in which this trunk is located.
Ann5port is for the flexible first announcement.
This attribute is divided into subattributes
ann[x]port.member and ann[x]port.module. The
structure members are:
1. member(DMport): Port name of a port

2. module(DMmodule): The SM number that this port
terminates on

if ann[x]port
is non-zero, x <= numann.
if ann[x]port is non-zero then:
if portgrp.grptype is TM_QLINE:
ann[x]port.module must
equal RLrt_mhg.qmodule where RLrt_mhg is
keyed by portgrp.grpnum.
if portgrp.grptype is TM_QTRK:
ann[x]port.module must
equal RLrt_trkg.qmodule where RLrt_trkg is
keyed by portgrp.grpnum.
if portgrp.grptype is TM_QSFG:
ann[x]port.module must
equal RLrt_sfg.qmodule where RLrt_sfg is
keyed by portgrp.grpnum.
Ann5port must be 0 if numann = 0

**Attribute:**
ann[*]port.member
**Fullname:**
port member.
**Attribute Description:**
port member.

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**Attribute:**
ann[*]port.module
**Fullname:**
port module.
**Attribute Description:**
port module

**Attribute:**
music_port
**Fullname:**
Music (tone) port.
**Attribute Description:**
Trunk port to provide music as tone.
This attribute is divided into subattributes member and module.

The structure members are:
1. member(DMport): Port name of a port

2. module(DModule): The SM number that this port terminates on

**Attribute:**
music_port.member
**Fullname:**
Port member name.
**Attribute Description:**
Port member name.

**Attribute:**
music_port.module
**Fullname:**
Module number.
**Attribute Description:**
Module number.

**Attribute:**
pre_anntone
**Fullname:**
pre announcement tone.
**Attribute Description:**
Pre-announcement tone.

**Attribute:**
int_anntone

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**Fullname:**
inter announcement.
**Attribute Description:**
Pre_announcement tone.

**Attribute:**
post_anntone
**Fullname:**
Post announcement.
**Attribute Description:**
Post_announcement tone,

**Attribute:**
pre_ann_dly
**Fullname:**
Pre announcement delay.
**Attribute Description:**
Tone interval before first announcement.
Each interval represents a six-second duration.

If portgrp.grptype = TM_QLINE and numann = 0 then
the pre-announcement delay must be = 0.

For portgrp.grptype != TM_QLINE:
if (numann > 0 && rou_q != Q_HPCOHQ) or
an RLqu_pri tuple (keyed on portgrp.grpnum) exists
and RLqu_pri.numann_p > 0.
then
the pre-announcement delay must be > 0.
else
the pre-announcement delay must be = 0.

**Attribute:**
int_ann_dly
**Fullname:**
inter announcement delay
**Attribute Description:**
Tone interval between announcements
Each interval represents a six-second duration.

If portgrp.grptype = TM_QLINE and numann < 2 then
the inter-announcement delay must be = 0.

For portgrp.grptype != TM_QLINE:
if numann > 1 or
an RLqu_pri tuple (keyed on portgrp.grpnum) exists
and RLqu_pri.numann_p > 1
then
the inter-announcement delay must be > 0.

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```
        else
            the inter-announcement delay must be = 0.
```

**Attribute:**
        flex_first
**Fullname:**
        Flexible first.
**Attribute Description:**
        Flexible first - threshold value (in six-second
        intervals) for the alternate first announcement.

        flex_first must be populated if
        flexible first announcement (ann5port) is defined:
        else, flex_first must be 0.

**Attribute:**
        sada
**Fullname:**
        Service After Delay Announcement.
**Attribute Description:**
        Indicates if the Service After Delay Announcement
        feature is active for the hunt group.

        If numann == 0 the sada must be DBNO
        and if grptyp != TM_QLINE then sada must be DBNO.
        If sada = DBYES then ann1type must_be QU_NBARGE.
        If sada = DBYES and ann5port.member > 0 then
        ann5type must_be QU_NBARGE.

**Attribute:**
        ann_bill
**Fullname:**
        Announcement bill.
**Attribute Description:**
        Indicates if billing is to begin with the announcement
        (DBYES) or when the call is connected to the hunt
        group member (DBNO).

**Attribute:**
        freeterm
**Fullname:**
        Free termination.
**Attribute Description:**
        Indicates if the mlhg is marked as a free termination.

        The value of this bit must follow the

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freeterm bit in the relation RLfc_line for the first member of the mlhg, if one exists.

**Attribute:**
ffcf1
**Fullname:**
Future feature.
**Attribute Description:**
NONE

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# QU_OGTOS

## 1. Description

owner static relation for outgoing queue initialization

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10191 |
| expected tuples in relation | 4 |
| density | 9 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| l1 length of subkey 1 | 14 |
| p1 position of subkey 1 | 2 |
| ks key store | AUTO |
| trigger function | RTrcqutos |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| ignore key bits | 0-1 |

## 3. Field Layout

```
QU_OGTOS    relid = 240   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     ogt_key     DMSHORT      (short)     <--- key
     rq_timeout  DMUNS12      (ushort: 12)
     rou_q       DMQTYPE      (enum: 3)
 (a) pri_q       DMBOOL       (enum: 1)
     pq_timeout  DMUNS12      (ushort: 12)
 (b) post_q_treat  DMPOSTQ      (enum: 2)
     sp_time     DMUNS11      (ushort: 11)
     retry_time  DMUNS10      (ushort: 10)
     rqsize      DMUNS8       (ushort: 8)
     pqsize      DMUNS8       (ushort: 8)
     portgrp     DMQPORTGRP   (struct)
         grpnum      DMGRPNUM     (ushort)
 (c)     grptype     DMQPTYPE     (enum: 2)
         User, Compacted and Stored Tuple Layout   QU_OGTOS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                       |     | |
  0 |            ogt_key            |       rq_timeout      |rou_q|a|
    |---------------+---------------+---------------+---------------|
    |                       |   |   |                       |       |
  4 |       pq_timeout      | b |***|       sp_time         |*******|
    |---------------+---------------+---------------+---------------|
    |                   |           |               |               |
  8 |     retry_time    |***********|     rqsize    |     pqsize    |
    |===============+========== portgrp ==========+===============|
    |                               |           |   |               |
 12 |             grpnum            |***********| c |***************|
    |===============+===============+===============+===============|
       ( 16 bytes )
```

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## 4. Population Rules for RLqu_ogtos

**Relation Description**
Owner static relation for outgoing queue initialization

Information concerning this section is not available at this time.

**Attribute: ogt_key**

**Fullname:** key to owner relation

**Attribute Description** This attribute is the key to the relation. It is a short which is found by taking the portgrp.grpnum and adding AVMXTRKGRPS if the portgrp.grptype is TM_QSFG, or else if portgrp.grptype is TM_QTRK, then the key is equal to portgrp.grpnum. The total of rqsize and pqsize for all tuples in this relation is kept in a global parameter Gltkqcells

**Attribute: portgrp**

**Fullname:** group type and number

**Attribute Description** This attribute is divided into subattributes portgrp.grpnum and portgrp.grptype and should be unique. The structure members are:

(1) Portgrp.grpnum: decimal number assigned to an SFG or a trunk group.

(2) Portgrp.grptype: enumerated field indicating the group type.

Dependencies: for TM_QTRK there must be a RLrt_trkg tuple with q_alwd equal to DBYES which is keyed by portgrp.grpnum, for TM_QSFG there must be a RLrt_sfg tuple with q_alwd equal to DBYES which is keyed by portgrp.grpnum.

**Attribute: portgrp.grpnum**

**Fullname:** group number

**Attribute Description** Information concerning this section is not available at this time.

**Attribute: portgrp.grptype**

**Fullname:** group type

**Attribute Description** Information concerning this section is not available at this time.

**Attribute: rou_q**

**Fullname:** type of routine queue

**Attribute Description** There is no priority queuing associated with Q_BLV

**Attribute: pri_q**

**Fullname:** is there a priority queue

**Attribute Description** Information concerning this section is not available at this time.

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**Attribute: rqsize**

**Fullname:** routine queue size

**Attribute Description** When trunk queuing is assigned to a trunk to queue on a particular SM, the rqsize and pqsize assigned to this trunk must be <= 255. The combined total of (rqsize + pqsize + qu_os.qbsize + qu_os.qexsize) for all tuples on this SM must be <= 255 on an SM or <= 4000 on SM-2000.
This is checked in poprules for Glnq_cells.

**Attribute: pqsize**

**Fullname:** priority queue size

**Attribute Description**If pri_q is DBYES, then pqsize must be > 0.
If pri_q is DBNO, then pqsize must be 0.

**Attribute: rq_timeout**

**Fullname:** routine queue timeout limit in seconds

**Attribute Description** If rou_q is Q_RGBK then rq_timeout must be <= 1770

***NOTE:*** The timeout value specified is the approximate time which timeout will occur within thirty seconds.

**Attribute: pq_timeout**

**Fullname:** priority queue timeout limit in seconds

**Attribute Description**The timeout value specified is the approximate time which timeout will occur within thirty seconds.

**Attribute: retry_time**

**Fullname:** retry timeout limit in seconds

**Attribute Description** If retry_time > 0 then rou_q must be Q_RGBK.

***NOTE:*** The timeout value specified is the approximate time which timeout will occur within thirty seconds. 0 means no retry

**Attribute: sp_time**

**Fullname:** service protection time delay in seconds

**Attribute Description** if sp_time > 0 then pri_q must be DBYES.

***NOTE:*** 0 means no service protection

**Attribute: post_q_treat**

**Fullname:** post queue treatment

**Attribute Description** When a call is removed from a queue and not given the facility queued for, the call will be re-routed only if the call is an ARS-D call and QR_ALTR is specified else the call is given reorder tone and disconnected When portgrp.grptype is TM_QTRK or TM_QSFG, QR_NULL

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is not allowed

***NOTE:*** ODA should NEVER populate a NULL value in this attribute, this poprule pertains to RC ONLY !!

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# QU_OS

## 1. Description

owner static relation for queue initialization

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected tuples in relation | 4 |
| density | 11 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | RTrcqu_os |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| permutation type | unperm |

## 3. Field Layout

```
QU_OS       relid = 609   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     grpnum      DMGRPNUM     (ushort)     <--- key
     qbsize      DMUNS8       (ushort: 8)
     qexsize     DMUNS8       (ushort: 8)
     warn_thresh  DMUNS8       (ushort: 8)
 (a) num_qmon    DMUNS2       (ushort: 2)
     qmon1       DMQMON       (struct)
         module      DMMODULE     (ushort: 8)
         lport       DMLPORT      (ushort: 16)
 (b)     termno      DMTERMNO     (uchar: 1)
 (c)     cpecomp     DMCPECOMP    (uchar: 3)
         button      DMBUTTON     (uchar: 8)
         config      DMCONFIG     (ulong: 12)
     qmon2       DMQMON       (struct)
         module      DMMODULE     (ushort: 8)
         lport       DMLPORT      (ushort: 16)
 (d)     termno      DMTERMNO     (uchar: 1)
 (e)     cpecomp     DMCPECOMP    (uchar: 3)
         button      DMBUTTON     (uchar: 8)
         config      DMCONFIG     (ulong: 12)
     qmon3       DMQMON       (struct)
         module      DMMODULE     (ushort: 8)
         lport       DMLPORT      (ushort: 16)
 (f)     termno      DMTERMNO     (uchar: 1)
 (g)     cpecomp     DMCPECOMP    (uchar: 3)
         button      DMBUTTON     (uchar: 8)
         config      DMCONFIG     (ulong: 12)
         User, Compacted and Stored Tuple Layout  QU_OS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |             grpnum            |     qbsize    |    qexsize    |
```

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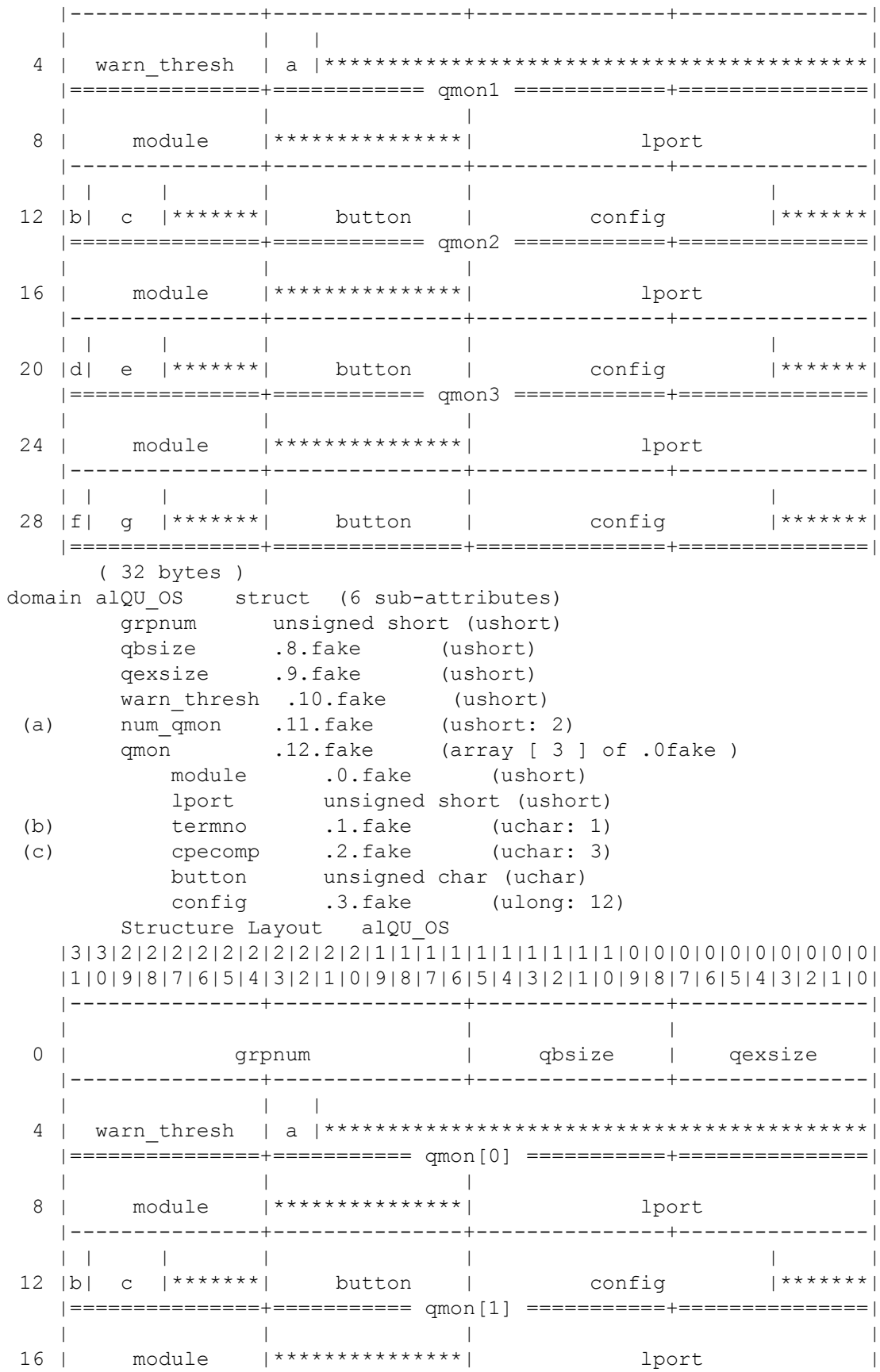
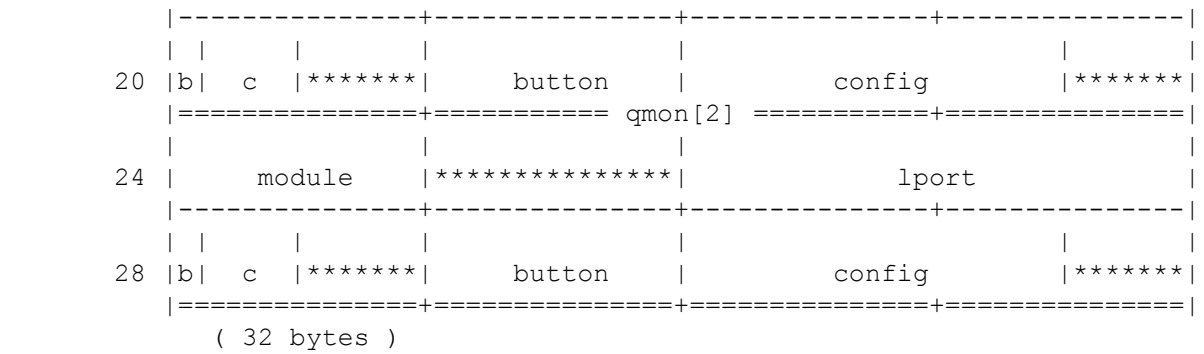



```
      ( 32 bytes )
domain alQU_OS    struct  (6 sub-attributes)
        grpnum      unsigned short (ushort)
        qbsize      .8.fake      (ushort)
        qexsize     .9.fake      (ushort)
        warn_thresh  .10.fake     (ushort)
 (a)    num_qmon    .11.fake     (ushort: 2)
        qmon        .12.fake     (array [ 3 ] of .0fake )
            module      .0.fake      (ushort)
            lport       unsigned short (ushort)
 (b)        termno      .1.fake      (uchar: 1)
 (c)        cpecomp     .2.fake      (uchar: 3)
            button      unsigned char (uchar)
            config      .3.fake      (ulong: 12)
        Structure Layout   alQU_OS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |             grpnum            |     qbsize    |    qexsize    |
    |---------------+---------------+---------------+---------------|
    |               |   |                                           |
  4 |  warn_thresh  | a |*******************************************|
    |===============+===========  qmon[0]  ==========+===============|
    |               |               |                               |
  8 |     module    |***************|             lport             |
    |---------------+---------------+---------------+---------------|
    | |     |       |               |                       |       |
 12 |b|  c  |*******|     button    |         config        |*******|
    |===============+===========  qmon[1]  ==========+===============|
    |               |               |                               |
 16 |     module    |***************|             lport             |
```




## 4. Population Rules for RLqu_os

**Relation Description**
owner static relation for queue initialization

This relation is for queue initialization for owner tuple for Multi-line Hunt Group (MLHG). This relation contains information about the size of the queue (basic and extended), a queue monitor console threshold value, the number of queue monitor consoles, and information about each queue monitor consoles for the MLHG.

A queue monitor console is an ISDN DSL which can be used to display status information about a MLHG. A queue monitor console does not have any special equipment beyond normal ISDN feature buttons and an ISDN CPE display. A feature button on the queue monitor console which is mapped to a MLHG is called a queue status feature button. When the queue status feature button is pressed information about the MLHG queue is displayed on the queue monitor console. When the number of calls queued for the MLHG exceeds the warning threshold (warn_thresh) the queue status feature button lamp on the queue monitor console is lit.

Glnq_cells contains the total qbsize and qexsize for all of the queuing tuples on the SM. RC uses this to enforce the restriction that the total queue size for all MLHG and trunk queues on a given SM be no greater than 255 for an SM and no greater than 4000 for SM-2000.

**Attribute: grpnum**

**Fullname:** group number

**Attribute Description** The grpnum is the multi-line hunt group number.

**Attribute: qbsize**

**Fullname:** queue basic size

**Attribute Description** A queue associated with multiline hunt group has a queue basic size. The number of calls in the queue for the terminating lines for a given MLHG can not be more than the defined value set by the customer (max 255). The following rule is enforced in population rules for Glnq_cells. The combined total of (qbsize + qexsize + qu_ogtos.rqsize + qu_ogtos.pqsize) for all tuples on this SM must be no greater than 255 for an SM or 4000 for SM-2000.

**Attribute: qexsize**

**Fullname:** queue extended size.

**Attribute Description** A queue associated with the multi-line hunt group has a value set for queue extended size. A qexsize is set for the calls coming on foreign exchange trunks.

The combined total of (qbsize + qexsize + qu_ogtos.rqsize + qu_ogtos.pqsize) for all tuples on this

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SM must be no greater than 255 for an SM or 4000 for SM-2000.

**Attribute: warn_thresh**

**Fullname:** warning threshold size for queue threshold warning lamps

**Attribute Description** The field warn_thresh is used for MLHG queues which are monitored by one or more queue monitor consoles. If the number of calls in the queue is greater than warn_thresh then queue threshold warning lamps on the queue monitor consoles are lit.

**Attribute: num_qmon**

**Fullname:** number of queue monitor consoles

**Attribute Description** A MLHG can be monitored by at most three queue monitor consoles. This num_qmon tells how many queue monitor consoles are monitoring a MLHG.

**Attribute: qmon1**

**Fullname:** queue monitor console one

**Attribute Description** qmon1 is the 1st queue monitor console monitoring a circuit switched data multi-lint hunt group.

**Attribute: qmon1.module**

**Fullname:** queue monitor console one's module

**Attribute Description** qmon1.module is the module identification number for 1st queue monitor console monitoring the MLHG. Each queue monitor console monitoring the MLHG is connected with different processor or switching module. For call processing we need to know which processor the queue monitor console is attached with.

**Attribute: qmon1.lport**

**Fullname:** queue monitor console one's logical port

**Attribute Description** The qmon1.lport is the logical port number for the queue monitor console one monitoring the multi-line hunt group.

**Attribute: qmon1.termno**

**Fullname:** queue monitor console one's terminal number

**Attribute Description** The qmon1.termno is queue monitor console one's terminal number

**Attribute: qmon1.cpecomp**

**Fullname:** queue monitor console one's CPE component

**Attribute Description** MLHG queue monitor one uses a Queue Status Feature Button (QSFB) to monitor this MLHG queue. qmon1.cpecomp identifies the CPE component on the queue monitor console where the QSFB is located.

**Attribute: qmon1.button**

**Fullname:** queue monitor console one's queue status feature button

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**Attribute Description** MLHG queue monitor one uses a Queue Status Feature Button (QSFB) to monitor this MLHG queue. qmon1.button identifies the QSFB on the queue monitor console.

**Attribute: qmon1.config**

**Fullname:** queue monitor console one's configuration

**Attribute Description** The qmon1.config is the queue monitor console's configuration for queue monitor console one.

**Attribute: qmon2**

**Fullname:** queue monitor console two

**Attribute Description** qmon2 is the 2nd queue monitor console monitoring a circuit switched data multi-lint hunt group.

**Attribute: qmon2.module**

**Fullname:** queue monitor console two's module

**Attribute Description** The qmon2.module is the queue monitor console two's module number.

**Attribute: qmon2.lport**

**Fullname:** queue monitor console two's logical port

**Attribute Description** The qmon2.termno is the queue monitor console's terminal number for the 2nd queue monitor console monitoring a multi-line hunt group.

**Attribute: qmon2.termno**

**Fullname:** queue monitor console two' terminal number

**Attribute Description** The qmon2.termno is the queue monitor console's terminal number for the 2nd queue monitor console monitoring a multi-line hunt group.

**Attribute: qmon2.cpecomp**

**Fullname:** queue monitor console two's CPE component

**Attribute Description** MLHG queue monitor two uses a Queue Status Feature Button (QSFB) to monitor this MLHG queue. qmon2.cpecomp identifies the CPE component on the queue monitor console where the QSFB is located.

**Attribute: qmon2.button**

**Fullname:** queue monitor console two's queue status feature button

**Attribute Description** MLHG queue monitor two uses a Queue Status Feature Button (QSFB) to monitor this MLHG queue. qmon2.button identifies the QSFB on the queue monitor console.

**Attribute: qmon2.config**

**Fullname:** queue monitor console two's configuration

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**Attribute Description** The qmon2.config is the queue monitor console's configuration for the 2nd queue monitor console monitoring a multi-line hunt group.

**Attribute: qmon3**

**Fullname:** queue monitor console three

**Attribute Description** qmon3 is the 3rd queue monitor console monitoring a circuit switched data multi-lint hunt group.

**Attribute: qmon3.module**

**Fullname:** queue monitor console three's module

**Attribute Description** The qmon3.module is the module number for the 3rd queue monitor console monitoring the MLHG.

**Attribute: qmon3.lport**

**Fullname:** queue monitor console three's logical port

**Attribute Description** The qmon3.lport is the logical port number for the 3rd queue monitor console monitoring the multi-line hunt group.

**Attribute: qmon3.termno**

**Fullname:** queue monitor console three's terminal number

**Attribute Description** The qmon3.termno is the terminal number for the 3rd queue monitor console monitoring the multi-line hunt group.

**Attribute: qmon3.cpecomp**

**Fullname:** queue monitor console three's CPE component

**Attribute Description** MLHG queue monitor three uses a Queue Status Feature Button (QSFB) to monitor this MLHG queue. qmon3.cpecomp identifies the CPE component on the queue monitor console where the QSFB is located.

**Attribute: qmon3.button**

**Fullname:** queue monitor console three's queue status feature button

**Attribute Description** MLHG queue monitor three uses a Queue Status Feature Button (QSFB) to monitor this MLHG queue. qmon3.button identifies the QSFB on the queue monitor console.

**Attribute: qmon3.config**

**Fullname:** queue monitor console three's configuration

**Attribute Description** The qmon3.config is the configuration for the 3rd queue monitor console monitoring a multi-line hunt group.

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# QU_PRI

## 1. Description

This relation contains the delay announcement and service protection parameters for priority offhook queuing.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 1024 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
QU_PRI      relid = 241   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     portgrp     DMQPORTGRP   (struct)     <--- key
         grpnum      DMGRPNUM     (ushort)
 (a)     grptype     DMQPTYPE     (enum: 2)
 (b) numann_p    DMUNS2       (ushort: 2)
     pann1type   DMQANTYPE    (enum)
     pann2type   DMQANTYPE    (enum)
     pann3type   DMQANTYPE    (enum)
     pann1cycl   DMQANCYCL    (uchar)
     pann2cycl   DMQANCYCL    (uchar)
     pann3cycl   DMQANCYCL    (uchar)
     pann1port   DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     pann2port   DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     pann3port   DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout QU_PRI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+=========== portgrp ===========+===============|
    |                               |           |   |               |
  0 |             grpnum            |***********| a |***************|
    |===============+===============+===============+===============|
    |   |           |               |               |               |
  4 | b |***********|   pann1type   |   pann2type   |   pann3type   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  8 |   pann1cycl   |   pann2cycl   |   pann3cycl   |***************|
    |===============+========== pann1port ==========+===============|
    |                               |               |               |
 12 |             member            |***************|     module    |
    |===============+========== pann2port ==========+===============|
```

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```
    |                               |               |               |
 16 |             member            |***************|     module    |
    |===============+========== pann3port ==========+===============|
    |                               |               |               |
 20 |             member            |***************|     module    |
    |===============+===============+===============+===============|
       ( 24 bytes )
domain alQU_PRI   struct  (5 sub-attributes)
         portgrp     .3fake       (struct)
             grpnum      unsigned short (ushort)
 (a)         grptype     .2fake       (enum)
 (b)     numann_p    .5.fake      (ushort: 2)
         ptypes      .6.fake      (array [ 3 ] of .1fake )
         pcycles     .7.fake      (array [ 3 ] of unsigned char )
         pports      .8.fake      (array [ 3 ] of .0fake )
             member      unsigned short (ushort)
             module      .0.fake      (ushort)
         Structure Layout      alQU_PRI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+========== portgrp ===========+===============|
    |                               |           |   |               |
  0 |             grpnum            |***********| a |***************|
    |===============+===============+===============+===============|
    |   |           |                                               |
  4 | b |***********|                    ptypes                     |
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  8 |                    pcycles                    |***************|
    |===============+========== pports[0] ==========+===============|
    |                               |               |               |
 12 |             member            |***************|     module    |
    |===============+========== pports[1] ==========+===============|
    |                               |               |               |
 16 |             member            |***************|     module    |
    |===============+========== pports[2] ==========+===============|
    |                               |               |               |
 20 |             member            |***************|     module    |
    |===============+===============+===============+===============|
       ( 24 bytes )
```

## 4. Population Rules for RLqu_pri

**Relation Description**
Queuing Priority

Relation that contains delay announcement and service protection parameters for priority offhook queuing.
Attributes pann1typ thru pann3typ are redefined as an array of types.
Attributes pann1cycl thru pann3cycl are redefined as an array of cycles.
Attributes pann1port thru pann3port are redefined as an array of ports.
Allows features to treat the set of above attributes as arrays of attributes.

**Attribute: portgrp**

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**Fullname:** Key to owner relation

**Attribute Description** This attribute is the key for this relation and is divided into subattributes portgrp.grpnum and portgrp.grptype. The structure members are:

(1) Portgrp.grpnum: decimal number assigned to a Simulated Facility Group (SFG) or a trunk group.

(2) Portgrp.grptype: enumerated field indicating the group type

***NOTE 1:*** This relation should only be populated if one of the following is satisfied:

portgrp.grptype == TM_QSFG and RLqu_tcfdf.pri_spl_dly == DBYES where RLqu_tcfdf is keyed by RLrt_sfg.qfid and RLrt_sfg is keyed by portgrp.grpnum.

portgrp.grptype == TM_QTRK and RLqu_tcfdf.pri_spl_dly == DBYES where RLqu_tcfdf is keyed by RLrt_trkg.qfid and RLrt_trkg is kdyed by portgrp.grpnum.

***NOTE 2:*** This relation is for Priority queues only!

```
if portgrp.grptype is TM_QSFG
      RLrt_sfg.priority must be DBYES
if portgrp.grptype is TM_QTRK
      RLrt_trkg.priority must be DBYES
```

**Attribute: portgrp.grpnum**

**Fullname:** Group number

**Attribute Description** group number

**Attribute: portgrp.grptype**

**Fullname:** Group type

**Attribute Description** group type

**Attribute: numann_p**

**Fullname:** Number of priority announcement allowed

**Attribute Description** number of priority announcements allowed

**Attribute: pann1type**

**Fullname:** priority announcement type

**Attribute Description** for pann1type if pann1type is QU_NBARGE then 1 <= numann_p

**Attribute: pann2type**

**Fullname:** priority announcement group

**Attribute Description** for pann2type, if pann2type is QU_NBARGE, then 2 <= numann_p

**Attribute: pann3type**

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**Fullname:** priority announcement type

**Attribute Description** for pann3type, if pann3type is QU_NBARGE, then 3 <= numann_p

**Attribute: pann1cycl**

**Fullname:** priority announcement cycles

**Attribute Description** if pann1cycl is > 0, then 1 <=numann_p . Also if pann1cycl equals 0 , then 1 must be > numann_p

**Attribute: pann2cycl**

**Fullname:** priority announcement cycles

**Attribute Description** for pann2cycl, if pann2cycl is > 0 then 2 <= numann_p also, if pann2cycl equals 0 , then 2 must be > numann_p

**Attribute: pann3cycl**

**Fullname:** priority announcement cycles

**Attribute Description** for pann3cycl, if pann3cycl is > 0, then 3 <= numann_p also, if pann3cycl equals 0, then 3 must be > numann_p

**Attribute: pann1port**

**Fullname:** priority announcement port

**Attribute Description** Priority announcement ports for up to three announcements. Member is the port name of a trunk that should be assigned as an announcement trunk in relation RLfc_trunk. Module refers to the Switching Module in which this trunk is located. This attribute is divided into subattributes

**Attribute: pann1port.member**

**Fullname:** port name of a port

**Attribute Description** for pann1port, if pann1port is non-zero, 1 <= numann_p.
if pann1port is non-zero, pann1port.module must equal RLrt_sfg.qmodule where RLrt_sfg is keyed by portgrp.grpnum (if portgrp.grptype = TM_QSFG), or else pann1port.module must equal RLrt_trkg.qmodule where RLrt_trkg is keyed by portgrp.grpnum (if portgrp.grptype = TM_QTRK).

**Attribute: pann1port.module**

**Fullname:** The SM number that this port terminates on

**Attribute Description** port module

**Attribute: pann2port**

**Fullname:** priority announcement port

**Attribute Description** Member is the port name of a trunk that should be assigned as an announcement trunk in relation RLfc_trunk. Module refers to the Switching Module in which this trunk is located. This attribute is divided into subattributes

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**Attribute: pann2port.member**

**Fullname:** priority announcement port

**Attribute Description** for pann2port, if pann2port is non-zero, 2 <= numann_p. if pann2port is non-zero, pann2port.module must equal RLrt_sfg.qmodule where RLrt_sfg is keyed by portgrp.grpnum (if portgrp.grptype = TM_QSFG), or else pann2port.module must equal RLrt_trkg.qmodule where RLrt_trkg is keyed by portgrp.grpnum (if portgrp.grptype = TM_QTRK).

**Attribute: pann2port.module**

**Fullname:** The SM number that this port terminates on

**Attribute Description** port module

**Attribute: pann3port**

**Fullname:** prority announcement port

**Attribute Description** Member is the port name of a trunk that should be assigned as an announcement trunk in relation RLfc_trunk. Module refers to the Switching Module in which this trunk is located. This attribute is divided into subattributes

**Attribute: pann3port.member**

**Fullname:** priority announcement port

**Attribute Description** for pann3port, if pann3port is non-zero, 3 <= numann_p. if pann3port is non-zero, pann3port.module must equal RLrt_sfg.qmodule where RLrt_sfg is keyed by portgrp.grpnum (if portgrp.grptype = TM_QSFG), or else pann3port.module must equal RLrt_trkg.qmodule where RLrt_trkg is keyed by portgrp.grpnum (if portgrp.grptype = TM_QTRK).

**Attribute: pann3port.module**

**Fullname:** The SM number that this port terminates on

**Attribute Description** port module

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# QU_RGBK

## 1. Description

This relation contains the ringback parameters.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 1024 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
QU_RGBK     relid = 242   DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     portgrp     DMQPORTGRP   (struct)     <--- key
         grpnum      DMGRPNUM     (ushort)
 (a)     grptype     DMQPTYPE     (enum: 2)
 (b) rgbk_typ    DMMCDRING    (enum: 4)
 (c) rgbk_intrvl  DMOTQ_MAXR   (enum: 3)
         User, Compacted and Stored Tuple Layout    QU_RGBK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+=========== portgrp ===========+===============|
    |                               |           |   |               |
  0 |              grpnum           |***********| a |***************|
    |===============+===============+===============+===============|
    |       |     |                                                 |
  4 |   b   |  c  |*************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLqu_rgbk

**Relation Description**
relation that contains ringback parameters

This relation is for Ringback queues only! Therefore RLqu_tcfdf.rou_q must be Q_RGBK where RLqu_tcfdf is keyed by qfid where:

if portgrp.grptype is TM_QSFG qfid is found in RLrt_sfg.qfid, which is keyed by portgrp.grpnum, or

if portgrp.grptype is TM_QTRK qfid is found in RLrt_trkg.qfid, which is keyed by portgrp.grpnum.

**Attribute: portgrp**

**Fullname:** port group

**Attribute Description** key to owner relation

**Attribute: portgrp.grpnum**

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**Fullname:** group number

**Attribute Description** The decimal number assigned to an SFG or a trunk group.

**Attribute: portgrp.grptype**

**Fullname:** group type

**Attribute Description** if TM_QTRK is specified, then there must be a RLrt_trkg tuple with q_alwd equal to DBYES which is keyed by portgrp.grpnum.

If TM_QSFG is specified, then there must be a RLrt_sfg tuple with q_alwd equal to DBYES which is keyed by portgrp.grpnum.

**Attribute: rgbk_typ**

**Fullname:** ringback type

**Attribute Description** Distinctive ringback ringing. If rou_q in corresponding RLqu_tcfdf tuple is Q_RGBK, DR_NULL is not allowed

(1) ODA should NEVER populate a NULL value in this attribute, this pertains to RC ONLY !!

(2) Distinctive Ringing pattern DR_G is not used in generics 5e5_1u and beyond.

The distinctive ringing patterns are described here:

DR_A (Normal Ringing): 2 seconds on, 4 seconds off.

DR_B (Distinctive Ringing): 800ms on, 400ms off, 800ms on, 4 seconds off.

DR_C (Distinctive Ringing): 400ms on, 200ms off, 400ms on, 200 ms off, 800ms on, 4 seconds off.

DR_D (Distinctive Ringing): 1 second on, 1 second off, 1 second on, 3 seconds off.

DR_P (Distinctive Ringing): 1640ms on, 360ms off.

**Attribute: rgbk_intrvl**

**Fullname:** ringback interval

**Attribute Description** Time limit for ringback. If rou_q in corresponding RLqu_tcfdf tuple is Q_RGBK, QSEC_NULL is not allowed

***NOTE:*** ODA should NEVER populate a NULL value in this attribute, this is for RC ONLY !!

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# QU_SM

## 1. Description

This relation contains queuing SMs. It is used in the AM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 192 |
| expected number of tuples | 35 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
QU_SM       relid = 692   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     module      DMMODULE     (ushort: 8)     <--- key, not stored
     amount      DMUNS7       (ushort: 7)
     ogtq_amnt   DMUNS7       (ushort: 7)
         User and Compacted Tuple Layout  QU_SM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |     module    |***********************************************|
    |---------------+---------------+---------------+---------------|
    |             |             |                                   |
  4 |    amount   |  ogtq_amnt  |***********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     amount      DMUNS7       (ushort: 7)
     ogtq_amnt   DMUNS7       (ushort: 7)
           Stored Tuple Layout    QU_SM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |             |             |                                   |
  0 |    amount   |  ogtq_amnt  |***********************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLqu_sm

**Relation Description**
queues on switching modules

The count of all queues for MLHG, SFG, and Trunk Groups by switching module is identified in each tuple of this relation. If there are no queues at all for a given SM, then there is no tuple in the relation.

**Attribute: module**

**Fullname:** switching module number

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**Attribute Description** this identifies the specific SM which has either MLHG, SFG, or Trunk Group queues

**Attribute: amount**

**Fullname:** amount of queues

**Attribute Description** amount of MLHG and SFG queues on this SM

**Attribute: ogtq_amnt**

**Fullname:** outgoing trunk queue

**Attribute Description** identifies the count of trunk group queues for this SM

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# QU_TCFDF

## 1. Description

This relation contains the queuing constructed feature with default parameters. This is used in the AM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 2048 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
QU_TCFDF    relid = 268   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP


    feat_id     DMMCC_FID    (ushort)  <--- key
(a) grptype     DMQPTYPE     (enum: 2)
    rou_q       DMQTYPE      (enum: 3)
(b) pri_q       DMBOOL       (enum: 1)
(c) spl_dlytreat  DMBOOL       (enum: 1)
(d) pri_spl_dly  DMBOOL       (enum: 1)
    rqsize      DMUNS8       (ushort: 8)
    pqsize      DMUNS8       (ushort: 8)
    qmodule     DMMODULE     (ushort: 8)
(e) numann      DMUNS3       (ushort: 3)
    pre_anntone  DMTONE       (enum)
(f) pre_ann_dly  DMUNS5       (ushort: 5)
    int_anntone  DMTONE       (enum)
(g) int_ann_dly  DMUNS5       (ushort: 5)
    post_anntone  DMTONE       (enum)
    ann1typ     DMQANTYPE    (enum)
    ann2typ     DMQANTYPE    (enum)
    ann3typ     DMQANTYPE    (enum)
    ann4typ     DMQANTYPE    (enum)
    ann5typ     DMQANTYPE    (enum)
    ann1cycl    DMQANCYCL    (uchar)
    ann2cycl    DMQANCYCL    (uchar)
    ann3cycl    DMQANCYCL    (uchar)
    ann4cycl    DMQANCYCL    (uchar)
    ann5cycl    DMQANCYCL    (uchar)
    ann1port    DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    ann2port    DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    ann3port    DMGPORT      (struct)
        member      DMPORT       (ushort)
```

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```
        module      DMMODULE     (ushort: 8)
    ann4port    DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    ann5port    DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    flex_first  DMUNS8       (ushort: 8)
    sp_time     DMUNS11      (ushort: 11)
(h) numann_p    DMUNS2       (ushort: 2)
    pann1type   DMQANTYPE    (enum)
    pann2type   DMQANTYPE    (enum)
    pann3type   DMQANTYPE    (enum)
    pann1cycl   DMQANCYCL    (uchar)
    pann2cycl   DMQANCYCL    (uchar)
    pann3cycl   DMQANCYCL    (uchar)
    pann1port   DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    pann2port   DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    pann3port   DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
(i) rgbk_typ    DMMCDRING    (enum: 4)
(j) rgbk_intrvl  DMOTQ_MAXR   (enum: 3)
    retry_time  DMUNS10      (ushort: 10)
    pq_timeout  DMUNS12      (ushort: 12)
    rq_timeout  DMUNS12      (ushort: 12)
(k) post_q_treat  DMPOSTQ      (enum: 2)
        User, Compacted and Stored Tuple Layout   QU_TCFDF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |   |     | | | |               |
 0 |            feat_id            | a |rou_q|b|c|d|     rqsize    |
   |---------------+---------------+---------------+---------------|
   |               |               |     |                         |
 4 |     pqsize    |    qmodule    |  e  |*************************|
   |---------------+---------------+---------------+---------------|
   |                               |         |                     |
 8 |          pre_anntone          |    f    |*********************|
   |---------------+---------------+---------------+---------------|
   |                               |         |                     |
12 |          int_anntone          |    g    |*********************|
   |---------------+---------------+---------------+---------------|
   |                               |               |               |
16 |          post_anntone         |    ann1typ    |    ann2typ    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
20 |    ann3typ    |    ann4typ    |    ann5typ    |    ann1cycl   |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
```

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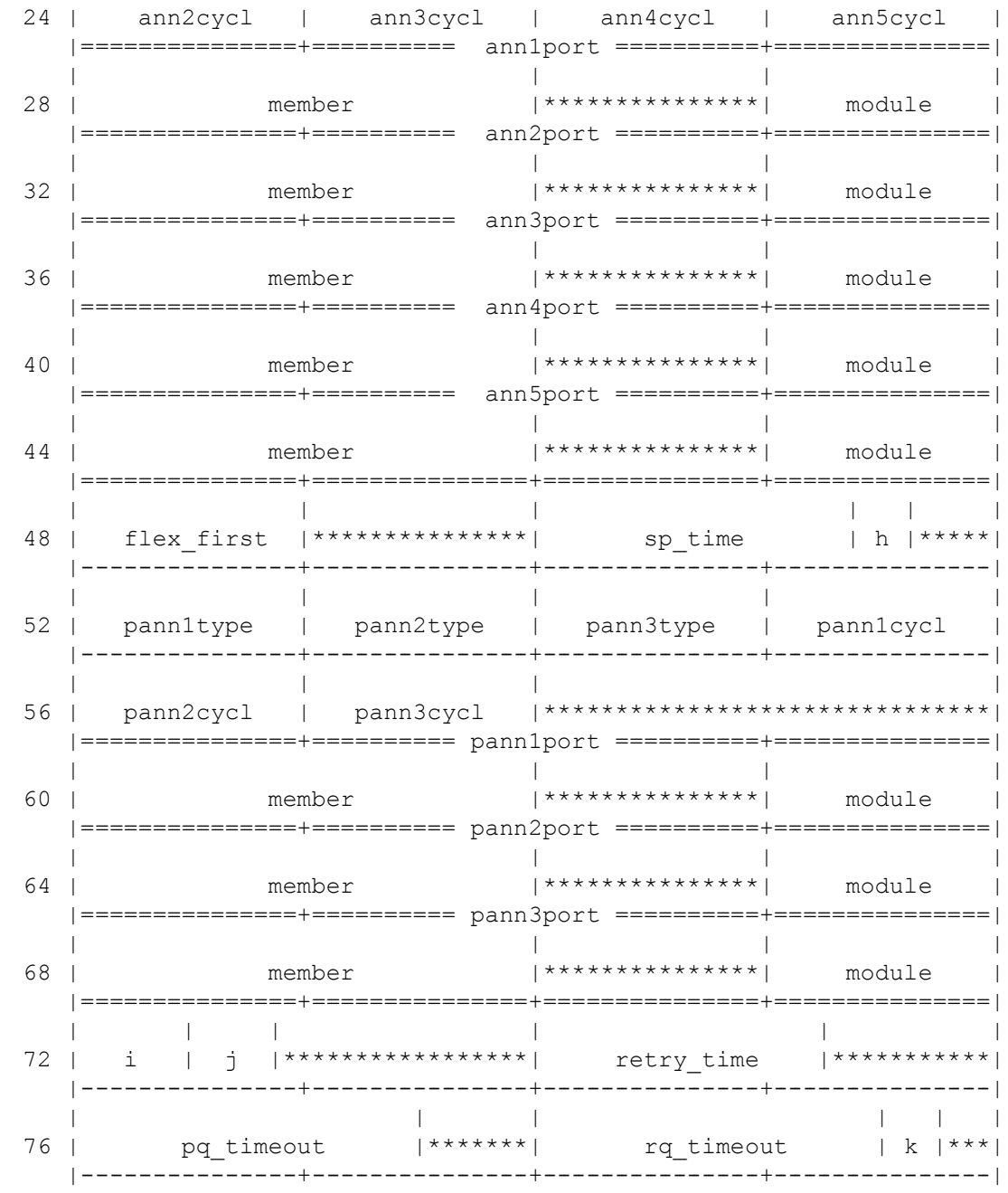


```
domain alQU_TCFDF struct  (30 sub-attributes)
         feat_id     unsigned short (ushort)
 (a)     grptype     .3fake       (enum)
         rou_q       .5fake       (enum)
 (b)     pri_q       .0fake       (enum)
 (c)     spl_dlytreat  .0fake       (enum)
 (d)     pri_spl_dly  .0fake       (enum)
         rqsize      .24.fake     (ushort)
         pqsize      .25.fake     (ushort)
         qmodule     .26.fake     (ushort)
```

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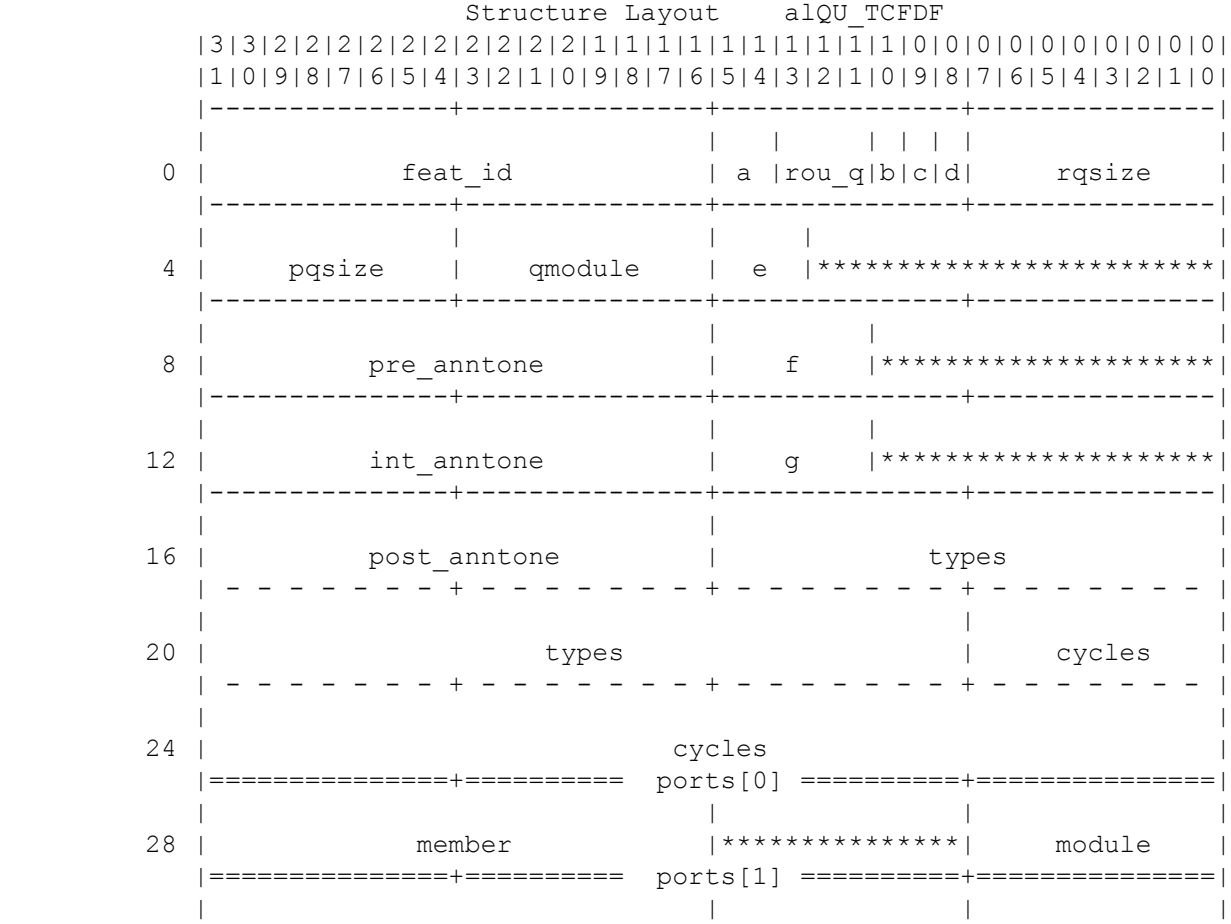
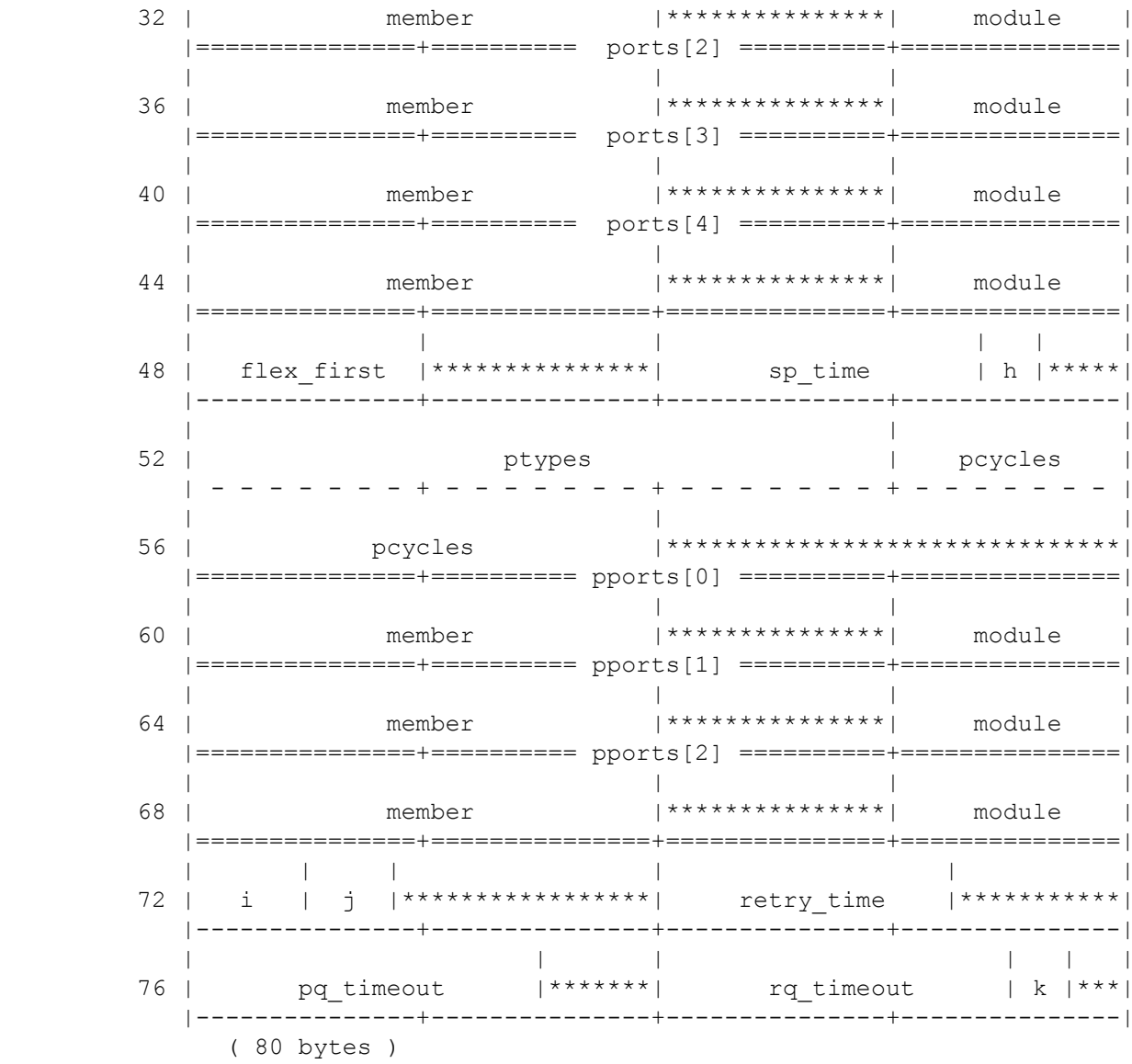
```
(e)     numann      .27.fake     (ushort: 3)
        pre_anntone  .28.fake     (enum)
(f)     pre_ann_dly  .29.fake     (ushort: 5)
        int_anntone  .30.fake     (enum)
(g)     int_ann_dly  .31.fake     (ushort: 5)
        post_anntone  .32.fake     (enum)
        types       .33.fake     (array [ 5 ] of .4fake )
        cycles      .34.fake     (array [ 5 ] of unsigned char )
        ports       .35.fake     (array [ 5 ] of .1fake )
            member      unsigned short (ushort)
            module      .0.fake      (ushort)
        flex_first  .36.fake     (ushort)
        sp_time     .37.fake     (ushort: 11)
(h)     numann_p    .38.fake     (ushort: 2)
        ptypes      .39.fake     (array [ 3 ] of .4fake )
        pcycles     .40.fake     (array [ 3 ] of unsigned char )
        pports      .41.fake     (array [ 3 ] of .1fake )
            member      unsigned short (ushort)
            module      .0.fake      (ushort)
(i)     rgbk_typ    .7fake       (enum)
(j)     rgbk_intrvl  .9fake       (enum)
        retry_time  .42.fake     (ushort: 10)
        pq_timeout  .43.fake     (ushort: 12)
        rq_timeout  .44.fake     (ushort: 12)
(k)     post_q_treat  .8fake       (enum)
```

Structure Layout  alQU_TCFDF






## 4. Population rules for RLqu_tcfdf

**Relation Description**

Queuing contructed feature with default parameters

This is the constructed feature relation for the trunks queuing features. These features are assigned to trunks in order to provide queuing for calls terminating to trunks where all trunks are busy.

**Attribute:**

feat_id

**Fullname:**

Queuing constructed feature identifier

**Attribute Description:**

Value is computed accordingly:
top 6 bits (10 - 15): MFQU (14 [0xe]) (see DMmftyp.G),
bottom ten bits (0 - 9): 1 - 1023 (0x1 - 0x3ff).

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**Attribute:**
grptype
**Fullname:**
Type of group to queue for
**Attribute Description:**
The values for this attributes must be TM_QTRK or TM_QSFG.

**Attribute:**
rou_q
**Fullname:**
Type of queuing
**Attribute Description:**
The values for the type of queuing must be Q_RGBK, Q_OFFHK, Q_DSU, or Q_BLV.

**Attribute:**
pri_q
**Fullname:**
Is there a priority queue?
**Attribute Description:**
Values must be DBYES or DBNO.

**Attribute:**
spl_dlytreat
**Fullname:**
Special delay treatment allowed
**Attribute Description:**
Values must be DBYES or DBNO.

**Attribute:**
pri_spl_dly
**Fullname:**
Priority special delay treatment allowed
**Attribute Description:**
Valuse must be DBYES or DBNO.

**Attribute:**
rqsize
**Fullname:**
Routine queuing size - default parameter
**Attribute Description:**
Values for this attribute must be between 1 - 255.

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rqsize + pqsize must be <= 255.
NOTE: after the feature is assigned to a group the total of the qu_ogtos.rqsize + qu_ogtos.pqsize + qu_os.qbsize + qu_os.qexsize attributes assigned to this SM must be <= 255 (SM) or <= 4000 (SM-2000).
Note: These checks are enforced in QU_OS and QU_OGTOS.

**Attribute:**
pqsize
**Fullname:**
Priority Queue size - default parameter
**Attribute Description:**
See rules under rqsize attribute.
If pri_q = DBNO, then pqsize must be 0.
if pri_q = DBYES, then pqsize must be > 0

**Attribute:**
qmodule
**Fullname:**
Queuing module - default parameter
**Attribute Description:**
The values for this attribute must be between 1 - 192.

If no value is specified when the feature is defined, the qmodule is defaulted to 1. When the feature is assigned to a trunk or SFG, RC checks RLmodatt to make sure it is an operational SM.

**Attribute:**
numann
**Fullname:**
Number of announcements
**Attribute Description:**
The number of announcements allowed must be between 0 - 4.
It must be 0 if spl_dlytreat is DBNO.

**Attribute:**
pre_anntone
**Fullname:**
Pre-announcement tone
**Attribute Description:**
The pre-announcement tone must be PCTAUD or PCTIDLE.

**Attribute:**

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pre_ann_dly

**Fullname:**

Tone interval before first announcement

**Attribute Description:**

The tone intervals before first anouncement represent a six-second duration, between 0 - 20. It must be > 0 if numann is >= 2 or if numannp is >= 1. GETS HPC queueing (rou_q = Q_HPCOHQ) is an exception to this rule; pre_ann_dly can be set to 0 even when there are annoucements provisioned.

**Attribute:**

int_anntone

**Fullname:**

Inter-announcement tone

**Attribute Description:**

The values for the inter-announcement tone must be PCTAUD or PCIDLE.

**Attribute:**

int_ann_dly

**Fullname:**

Tone interval between annoucements

**Attribute Description:**

The values for the tone intervals between announcements represent a six-second duration, it must be between 0 - 20. Ii must be > 0 if numann is >= 2 or if numannp is >= 2.

**Attribute:**

post_anntone

**Fullname:**

Post-announcement tone

**Attribute Description:**

The values for the post-announcement tone must be PCTAUD or PCTIDLE.

**Attribute:**

ann[*]typ

**Fullname:**

Priority1 anouncement type

**Attribute Description:**

The announcement type must be for barge-in or nonbarge-in. QU_BARGE or QU_NBARGE. Ann5type is for the flexible first announcement.

**Attribute:**

ann[*]cycl

**Fullname:**

Announcement1 cycles

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**Attribute Description:**
The announcement cycle is for up to 5 announcements. From 1 to 4 cycle per announcement. Ann5cycle is for the flexible first announcement.

**Attribute:**
ann3cycl
**Fullname:**
Anouncement3 cycles
**Attribute Description:**
The announcement cycle is for up to 5 announcements. From 1 to 4 cycles per announcement. Ann5cycle is for the flexible first announcement.

**Attribute:**
ann4cycl
**Fullname:**
Announcement4 cycles
**Attribute Description:**
The anouncement cycle is for up to 5 announcements. From 1 to 4 cycles per announcement. Ann5cycle is for the flexible first announcement.

**Attribute:**
ann5cycl
**Fullname:**

Annoucement5 cycles
**Attribute Description:**
The announcement cycle is for up to 5 announcements. From 1 to 4 cycles per announcements. Ann5cycle is for the flexible first announcement.

**Attribute:**
ann[*]port
**Fullname:**
Announcement1 port
**Attribute Description:**
The announcement port attribute is divided into subattributes ann1port.member and ann1port.module. Member is the port name of a trunk that should be assigned as an announcement trunk in relation RLfc_trunk. Module refers to the switching module in which this trunk is located. Ann5port is for the flexible first aanouncement.

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**Attribute:**
ann[*]port.member
**Fullname:**
Port name of a port
**Attribute Description:**
The port name of a port. Range of values is from 1 to 65535.

**Attribute:**
ann[*]port.module
**Fullname:**
SM number this port terminates on
**Attribute Description:**
The SM number that this port terminates on. Range of values 1 - 192.

**Attribute:**
flex_first
**Fullname:**
Flexible first - threshold value
**Attribute Description:**
Flexible first - threshold value (in six-second interval) for the alternate first announcement.

**Attribute:**
sp_time
**Fullname:**
Service protection time limit
**Attribute Description:**
Service protection time - decimal number indicating service protection delay in seconds.

**Attribute:**
numann_p
**Fullname:**
Number of priority announcements
**Attribute Description:**
Number of priority announcements allowed.

**Attribute:**
pann[*]type
**Fullname:**
Priority1 anouncement type
**Attribute Description:**
The announcement type must be for barge-in or nonbarge-in. QU_BARGE or QU_NBARGE. Ann5type is for the flexible first

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announcement.

**Attribute:**
pann[*]cycl
**Fullname:**
Announcement1 cycles
**Attribute Description:**
The announcement cycle is for up to 5 announcements. From 1 to 4 cycle per announcement. Ann5cycle is for the flexible first announcement.

**Attribute:**
pann[*]port
**Fullname:**
Announcement1 port
**Attribute Description:**
The announcement port attribute is divided into subattributes ann1port.member and ann1port.module. Member is the port name of a trunk that should be assigned as an announcement trunk in relation RLfc_trunk. Module refers to the switching module in which this trunk is located. Ann5port is for the flexible first aanouncement.

**Attribute:**
pann[*]port.member
**Fullname:**
Port name of a port
**Attribute Description:**
The port name of a port. Range of values is from 1 to 65535.

**Attribute:**
pann[*]port.module
**Fullname:**
SM number this port terminates on
**Attribute Description:**
The SM number that this port terminates on. Range of values 1 - 192.

**Attribute:**
rgbk_typ
**Fullname:**
Distintive riging pattern for ringback
**Attribute Description:**
Distinctive ringback ring.

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**Attribute:**
rgbk_intrvl
**Fullname:**
Time limit for ringback
**Attribute Description:**
Time limit for ringback.

**Attribute:**
retry_time
**Fullname:**
Retry timeout limit
**Attribute Description:**
Retry time limit for ringback.

**Attribute:**
pq_timeout
**Fullname:**
Priority queue timeout limit
**Attribute Description:**
Priority queue timeout limit in seconds.

**Attribute:**
rq_timeout
**Fullname:**
Routine queue timeout limit
**Attribute Description:**
Routine queue timeout limit in seconds.

**Attribute:**
post_q_treat
**Fullname:**
Queue timeout/overflow post routing
**Attribute Description:**
Queue timeout treatment (reorder or alternate route for ARS-D).

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# QVDSTDN

## 1. Description

This relation contains the Queuing and Vectoring call vector destination number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2048 |
| expected number of tuples | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
QVDSTDN     relid = 2347  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     destnmbr    DMCVRDST     (ushort: 11)     <--- key, not stored
     dn          DMBCD_DN     (struct)
         dn0         DMUNS4       (ushort: 4)
         dn1         DMUNS4       (ushort: 4)
         dn2         DMUNS4       (ushort: 4)
         dn3         DMUNS4       (ushort: 4)
         dn4         DMUNS4       (ushort: 4)
         dn5         DMUNS4       (ushort: 4)
         dn6         DMUNS4       (ushort: 4)
         dn7         DMUNS4       (ushort: 4)
         dn8         DMUNS4       (ushort: 4)
         dn9         DMUNS4       (ushort: 4)
         dn10        DMUNS4       (ushort: 4)
         dn11        DMUNS4       (ushort: 4)
         dn12        DMUNS4       (ushort: 4)
         dn13        DMUNS4       (ushort: 4)
         dn14        DMUNS4       (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
         User and Compacted Tuple Layout    QVDSTDN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
  0 |        destnmbr       |***************************************|
    |===============+=============  dn =============+===============|
    |       |       |       |       |       |       |       |       |
  4 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
  8 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+===============+===============+===============|
       ( 12 bytes )
     dn          DMBCD_DN     (struct)
         dn0         DMUNS4       (ushort: 4)
         dn1         DMUNS4       (ushort: 4)
         dn2         DMUNS4       (ushort: 4)
```

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```
        dn3          DMUNS4        (ushort: 4)
        dn4          DMUNS4        (ushort: 4)
        dn5          DMUNS4        (ushort: 4)
        dn6          DMUNS4        (ushort: 4)
        dn7          DMUNS4        (ushort: 4)
        dn8          DMUNS4        (ushort: 4)
        dn9          DMUNS4        (ushort: 4)
        dn10         DMUNS4        (ushort: 4)
        dn11         DMUNS4        (ushort: 4)
        dn12         DMUNS4        (ushort: 4)
        dn13         DMUNS4        (ushort: 4)
        dn14         DMUNS4        (ushort: 4)
        digcnt       DMDIGCNT      (uchar: 4)
          Stored Tuple Layout       QVDSTDN
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+=============  dn =============+===============|
   |       |       |       |       |       |       |       |       |
 0 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 4 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+===============+===============+===============|
      ( 8 bytes )
```

## 4. Population Rules for RLqvdstdn

**Relation Description**
Queuing and vectoring destination number to directory number (DN) mapping table.

This relation defines where a call will be routed when a given destination number is specified in a call vectoring route step.

**Attribute: destnmbr**

**Fullname:** Destination number

**Attribute Description** Destination numbers are used in call vectoring route steps (RLqvvector) to send calls to other destinations. An entered destination number must be decremented by one in order to form the key for the corresponding tuple of the RLqvdstdn relation.

**Attribute: dn**

**Fullname:** directory number

**Attribute Description** This attribute contains a structure for a directory number of up to 15 digits and a count of the number of digits that are valid.

**Attribute: dn.dn0**

**Fullname:** digit number 0

**Attribute Description** This sub-attribute contains the 1st digit of the directory number.

**Attribute: dn.dn1**

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**Fullname:** digit number 1

**Attribute Description** This sub-attribute contains the 2nd digit of the directory number.

**Attribute: dn.dn2**

**Fullname:** digit number 2

**Attribute Description** This sub-attribute contains the 3rd digit of the directory number.

**Attribute: dn.dn3**

**Fullname:** digit number 3

**Attribute Description** This sub-attribute contains the 4th digit of the directory number.

**Attribute: dn.dn4**

**Fullname:** digit number 4

**Attribute Description** This sub-attribute contains the 5th digit of the directory number.

**Attribute: dn.dn5**

**Fullname:** digit number 5

**Attribute Description** This sub-attribute contains the 6th digit of the directory number.

**Attribute: dn.dn6**

**Fullname:** digit number 6

**Attribute Description** This sub-attribute contains the 7th digit of the directory number.

**Attribute: dn.dn7**

**Fullname:** digit number 7

**Attribute Description** This sub-attribute contains the 8th digit of the directory number.

**Attribute: dn.dn8**

**Fullname:** digit number 8

**Attribute Description** This sub-attribute contains the 9th digit of the directory number.

**Attribute: dn.dn9**

**Fullname:** digit number 9

**Attribute Description** This sub-attribute contains the 10th digit of the directory number.

**Attribute: dn.dn10**

**Fullname:** digit number 10

**Attribute Description** This sub-attribute contains the 11th digit of the directory number.

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**Attribute: dn.dn11**

**Fullname:** digit number 11

**Attribute Description** This sub-attribute contains the 12th digit of the directory number.

**Attribute: dn.dn12**

**Fullname:** digit number 12

**Attribute Description** This sub-attribute contains the 13th digit of the directory number.

**Attribute: dn.dn13**

**Fullname:** digit number 13

**Attribute Description** This sub-attribute contains the 14th digit of the directory number.

**Attribute: dn.dn14**

**Fullname:** digit number 14

**Attribute Description** This sub-attribute contains the 15th digit of the directory number.

**Attribute: dn.digcnt**

**Fullname:** digit count

**Attribute Description** This attribute contains a count of the number of valid digits to use from the dn.dn structure.

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# QVVECTOR

## 1. Description

This relation contains the queuing and Vectoring Call Vector.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2048 |
| expected number of tuples | 200 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
QVVECTOR    relid = 2348  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL


    vectnmbr    DMCVNUM      (ushort: 11)      <--- key
    vredirect   DMCVNUM      (ushort: 11)
(a) active      DMBOOL       (enum: 1)
(b) redirect    DMBOOL       (enum: 1)
    step1       DMCVSTP      (struct)
        cmdcode     DMCVCMDS     (enum: 5)
        arg2        DMUNS11      (ushort: 11)
        carg2       DMUNS16      (ushort)
        errstp      DMUNS4       (ushort: 4)
        carg1       DMUNS12      (ushort: 12)
        arg1        DMUNS13      (ushort: 13)
        cond        DMCVCOND     (enum: 3)
    step2       DMCVSTP      (struct)
        cmdcode     DMCVCMDS     (enum: 5)
        arg2        DMUNS11      (ushort: 11)
        carg2       DMUNS16      (ushort)
        errstp      DMUNS4       (ushort: 4)
        carg1       DMUNS12      (ushort: 12)
        arg1        DMUNS13      (ushort: 13)
        cond        DMCVCOND     (enum: 3)
    step3       DMCVSTP      (struct)
        cmdcode     DMCVCMDS     (enum: 5)
        arg2        DMUNS11      (ushort: 11)
        carg2       DMUNS16      (ushort)
        errstp      DMUNS4       (ushort: 4)
        carg1       DMUNS12      (ushort: 12)
        arg1        DMUNS13      (ushort: 13)
        cond        DMCVCOND     (enum: 3)
    step4       DMCVSTP      (struct)
        cmdcode     DMCVCMDS     (enum: 5)
        arg2        DMUNS11      (ushort: 11)
        carg2       DMUNS16      (ushort)
        errstp      DMUNS4       (ushort: 4)
        carg1       DMUNS12      (ushort: 12)
        arg1        DMUNS13      (ushort: 13)
```

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```
    cond        DMCVCOND     (enum: 3)
step5       DMCVSTP      (struct)
    cmdcode     DMCVCMDS     (enum: 5)
    arg2        DMUNS11      (ushort: 11)
    carg2       DMUNS16      (ushort)
    errstp      DMUNS4       (ushort: 4)
    carg1       DMUNS12      (ushort: 12)
    arg1        DMUNS13      (ushort: 13)
    cond        DMCVCOND     (enum: 3)
step6       DMCVSTP      (struct)
    cmdcode     DMCVCMDS     (enum: 5)
    arg2        DMUNS11      (ushort: 11)
    carg2       DMUNS16      (ushort)
    errstp      DMUNS4       (ushort: 4)
    carg1       DMUNS12      (ushort: 12)
    arg1        DMUNS13      (ushort: 13)
    cond        DMCVCOND     (enum: 3)
step7       DMCVSTP      (struct)
    cmdcode     DMCVCMDS     (enum: 5)
    arg2        DMUNS11      (ushort: 11)
    carg2       DMUNS16      (ushort)
    errstp      DMUNS4       (ushort: 4)
    carg1       DMUNS12      (ushort: 12)
    arg1        DMUNS13      (ushort: 13)
    cond        DMCVCOND     (enum: 3)
step8       DMCVSTP      (struct)
    cmdcode     DMCVCMDS     (enum: 5)
    arg2        DMUNS11      (ushort: 11)
    carg2       DMUNS16      (ushort)
    errstp      DMUNS4       (ushort: 4)
    carg1       DMUNS12      (ushort: 12)
    arg1        DMUNS13      (ushort: 13)
    cond        DMCVCOND     (enum: 3)
step9       DMCVSTP      (struct)
    cmdcode     DMCVCMDS     (enum: 5)
    arg2        DMUNS11      (ushort: 11)
    carg2       DMUNS16      (ushort)
    errstp      DMUNS4       (ushort: 4)
    carg1       DMUNS12      (ushort: 12)
    arg1        DMUNS13      (ushort: 13)
    cond        DMCVCOND     (enum: 3)
step10      DMCVSTP      (struct)
    cmdcode     DMCVCMDS     (enum: 5)
    arg2        DMUNS11      (ushort: 11)
    carg2       DMUNS16      (ushort)
    errstp      DMUNS4       (ushort: 4)
    carg1       DMUNS12      (ushort: 12)
    arg1        DMUNS13      (ushort: 13)
    cond        DMCVCOND     (enum: 3)
step11      DMCVSTP      (struct)
    cmdcode     DMCVCMDS     (enum: 5)
    arg2        DMUNS11      (ushort: 11)
    carg2       DMUNS16      (ushort)
    errstp      DMUNS4       (ushort: 4)
```

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```
        carg1       DMUNS12      (ushort: 12)
        arg1        DMUNS13      (ushort: 13)
        cond        DMCVCOND     (enum: 3)
    step12      DMCVSTP      (struct)
        cmdcode     DMCVCMDS     (enum: 5)
        arg2        DMUNS11      (ushort: 11)
        carg2       DMUNS16      (ushort)
        errstp      DMUNS4       (ushort: 4)
        carg1       DMUNS12      (ushort: 12)
        arg1        DMUNS13      (ushort: 13)
        cond        DMCVCOND     (enum: 3)
    step13      DMCVSTP      (struct)
        cmdcode     DMCVCMDS     (enum: 5)
        arg2        DMUNS11      (ushort: 11)
        carg2       DMUNS16      (ushort)
        errstp      DMUNS4       (ushort: 4)
        carg1       DMUNS12      (ushort: 12)
        arg1        DMUNS13      (ushort: 13)
        cond        DMCVCOND     (enum: 3)
    step14      DMCVSTP      (struct)
        cmdcode     DMCVCMDS     (enum: 5)
        arg2        DMUNS11      (ushort: 11)
        carg2       DMUNS16      (ushort)
        errstp      DMUNS4       (ushort: 4)
        carg1       DMUNS12      (ushort: 12)
        arg1        DMUNS13      (ushort: 13)
        cond        DMCVCOND     (enum: 3)
    step15      DMCVSTP      (struct)
        cmdcode     DMCVCMDS     (enum: 5)
        arg2        DMUNS11      (ushort: 11)
        carg2       DMUNS16      (ushort)
        errstp      DMUNS4       (ushort: 4)
        carg1       DMUNS12      (ushort: 12)
        arg1        DMUNS13      (ushort: 13)
        cond        DMCVCOND     (enum: 3)
        User, Compacted and Stored Tuple Layout   QVVECTOR
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                       |         |                       | | |     |
 0 |       vectnmbr        |*********|      vredirect        |a|b|*****|
   |===============+============ step1 ============+===============|
   |         |                       |                               |
 4 | cmdcode |         arg2          |              carg2            |
   |---------------+---------------+---------------+---------------|
   |       |                         |                           |     |
 8 | errstp|          carg1          |           arg1            | cond|
   |===============+============ step2 ============+===============|
   |         |                       |                               |
12 | cmdcode |         arg2          |              carg2            |
   |---------------+---------------+---------------+---------------|
   |       |                         |                           |     |
16 | errstp|          carg1          |           arg1            | cond|
   |===============+============ step3 ============+===============|
```

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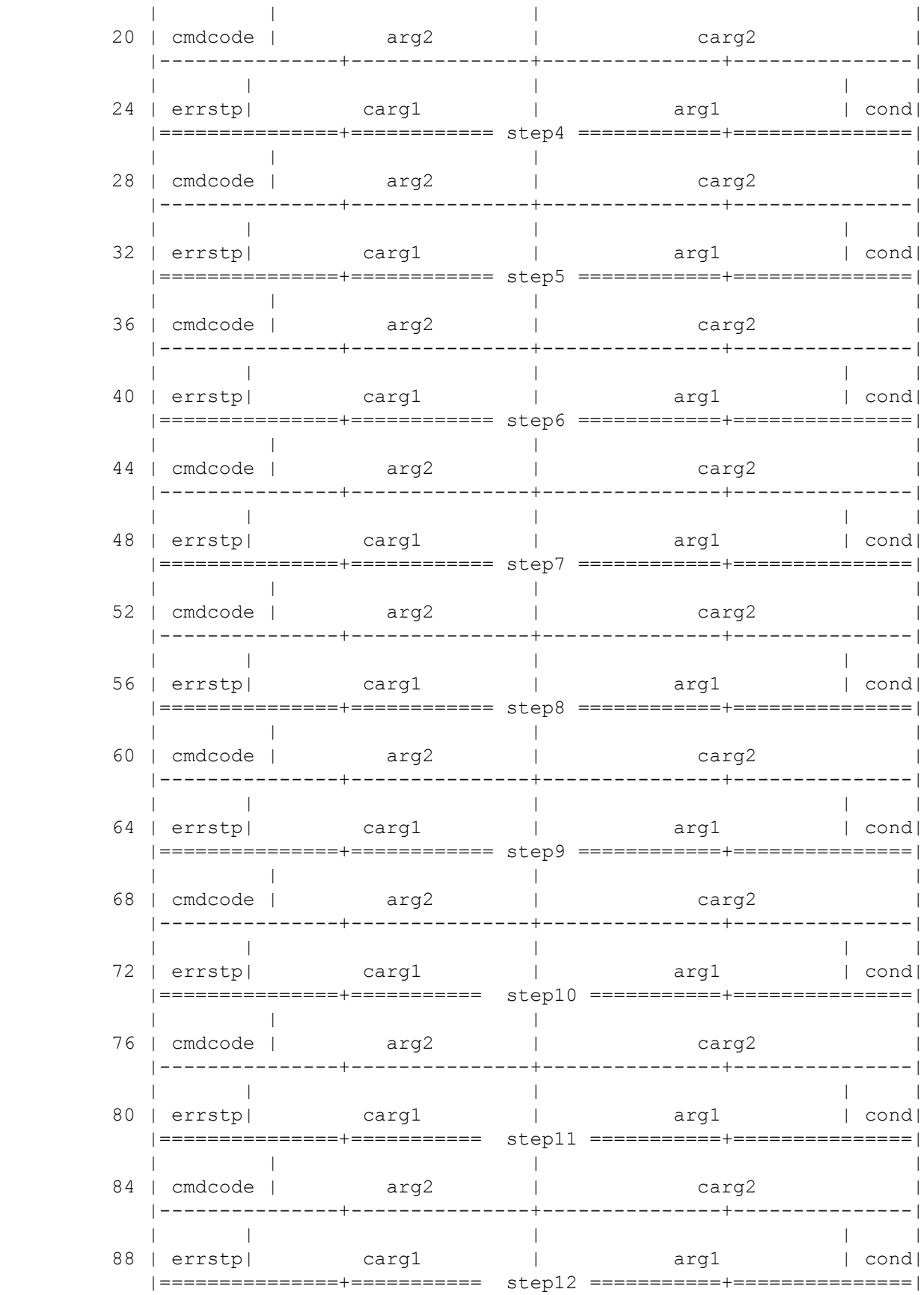


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```
    |         |                    |                              |
 92 | cmdcode |         arg2       |             carg2            |
    |---------+--------------------+------------------------------|
    |       |                      |                          |   |
 96 | errstp|         carg1        |           arg1           |cond|
    |=========+==========  step13 ==========+=================|
    |         |                    |                              |
100 | cmdcode |         arg2       |             carg2            |
    |---------+--------------------+------------------------------|
    |       |                      |                          |   |
104 | errstp|         carg1        |           arg1           |cond|
    |=========+==========  step14 ==========+=================|
    |         |                    |                              |
108 | cmdcode |         arg2       |             carg2            |
    |---------+--------------------+------------------------------|
    |       |                      |                          |   |
112 | errstp|         carg1        |           arg1           |cond|
    |=========+==========  step15 ==========+=================|
    |         |                    |                              |
116 | cmdcode |         arg2       |             carg2            |
    |---------+--------------------+------------------------------|
    |       |                      |                          |   |
120 | errstp|         carg1        |           arg1           |cond|
    |=========+=========+==========+==========+=================|
      ( 124 bytes )


domain alQVVECTOR struct  (5 sub-attributes)
         vectnmbr    .6.fake      (ushort: 11)
         vredirect   .7.fake      (ushort: 11)
 (a)     active      .0fake       (enum)
 (b)     redirect    .0fake       (enum)
         step        .8.fake      (array [ 15 ] of .3fake )
             cmdcode     .1fake       (enum)
             arg2        .0.fake      (ushort: 11)
             carg2       unsigned short (ushort)
             errstp      .1.fake      (ushort: 4)
             carg1       .2.fake      (ushort: 12)
             arg1        .3.fake      (ushort: 13)
             cond        .2fake       (enum)
                    Structure Layout    alQVVECTOR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------+---------+---------+---------+---------+---------+---------|
    |                     |         |                     | | | |     |
  0 |       vectnmbr      |*********|      vredirect      |a|b|*****|
    |=========+=========+========== step[0] ==========+=========+=========|
    |         |                    |                              |
  4 | cmdcode |         arg2       |             carg2            |
    |---------+--------------------+------------------------------|
    |       |                      |                          |   |
  8 | errstp|         carg1        |           arg1           |cond|
    |=========+=========+========== step[1] ==========+=========+=========|
    |         |                    |                              |
```

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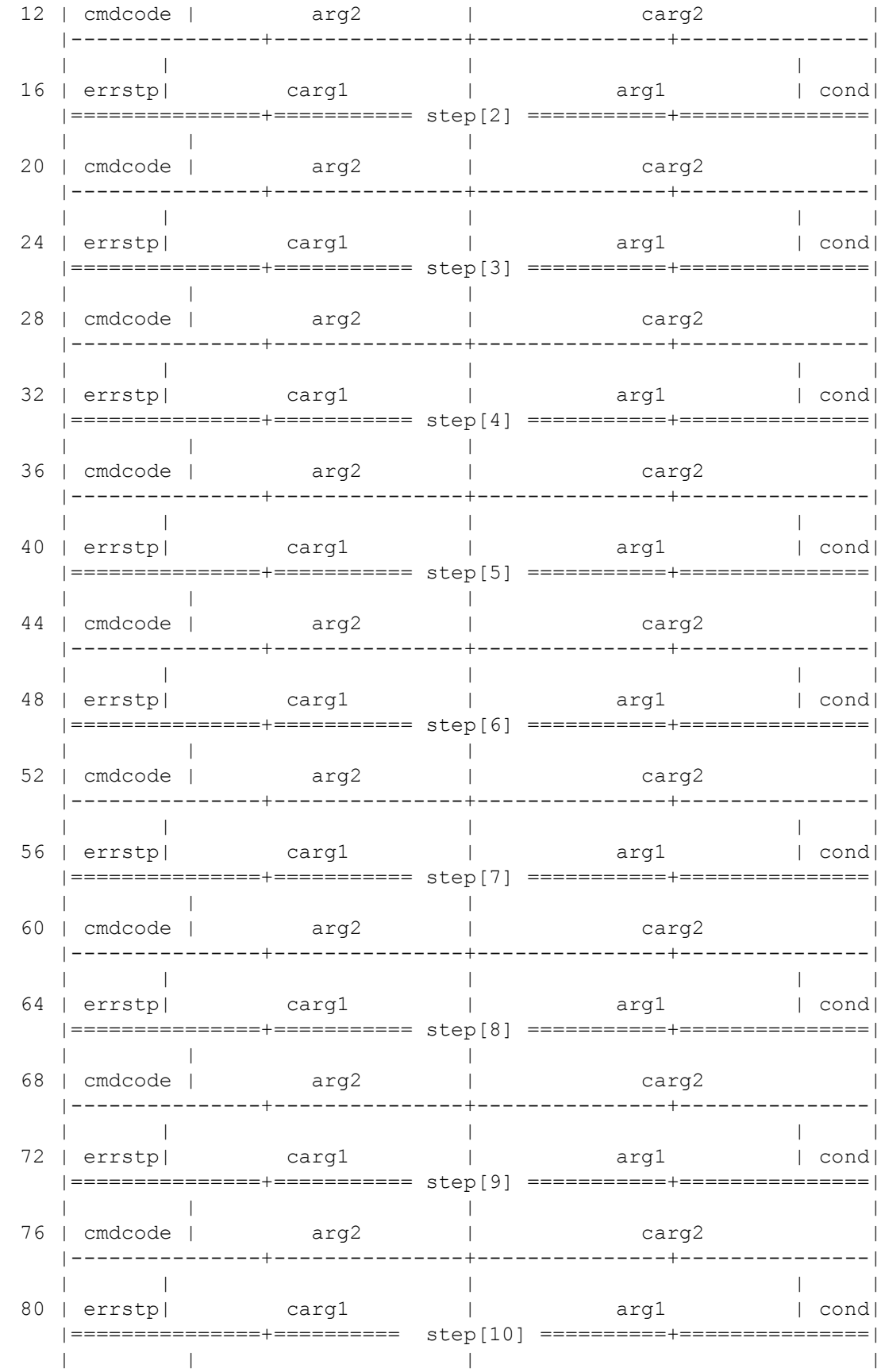


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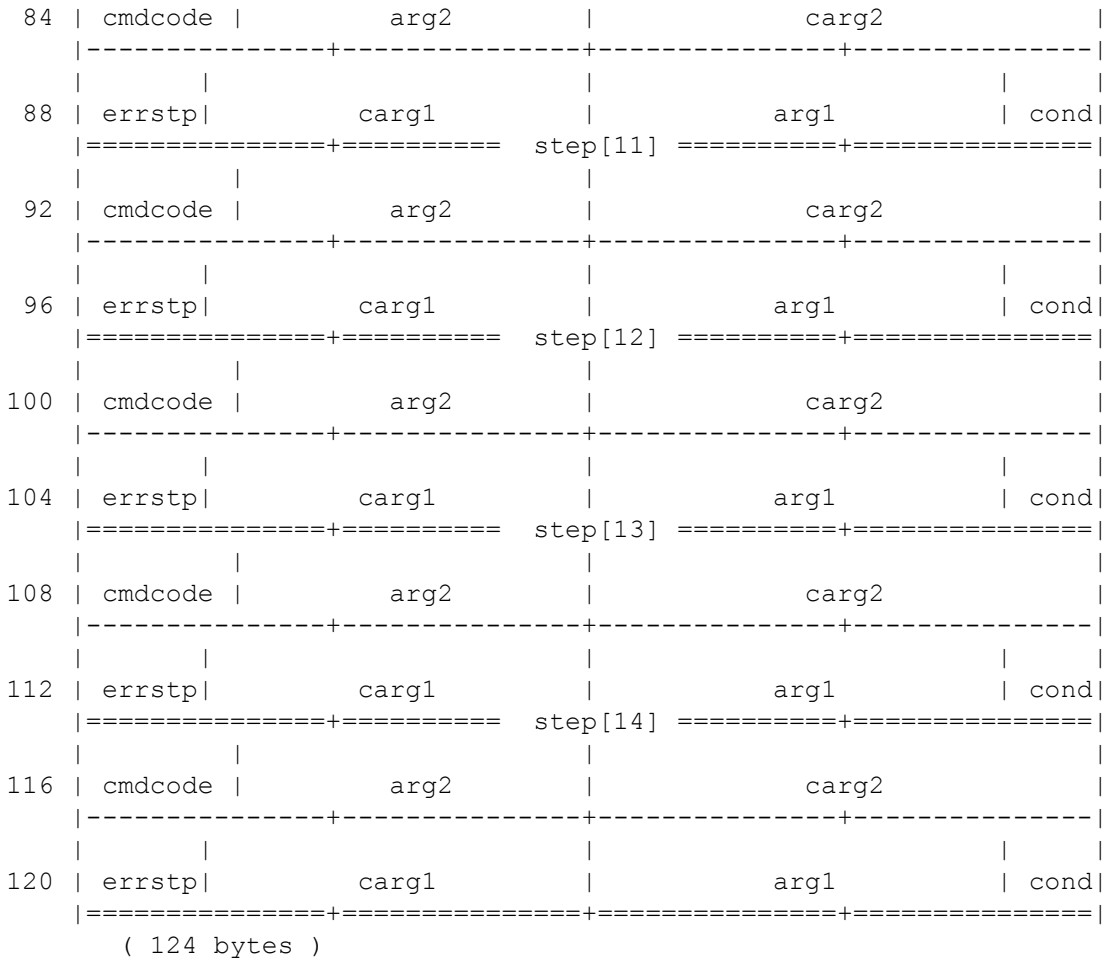

( 124 bytes )

## 4. Population rules for RLqvvector

### Relation Description

Queuing and Vectoring Call Vector definitions

Each tuple of this relation contains 15 steps defining how a call is to be treated while waiting for an ACD/BRCS agent. As such it forms a sort of program defined in a 'language' specialized for call handling. This 'language' contains such functions as queuing a call, playing announcements, connection to a music source for a specified period and conditional or unconditional branching, to name just a few. Conditional and unconditional GOTOs branching between tuples of RLqvvector can be used to produce larger programs.

When a step's cmdcode subattribute is FINOOP, there are no constraints on the other subattributes. This provides a way to temporarily disable a vector step without having to reenter the parameters when the step is later reenabled.

**Attribute:**

vectnmbr

**Fullname:**
vector number
**Attribute Description:**
A vector number can be referenced by conditional and unconditional GOTO steps within any of the 2048 vector tuples allowed. Vectors are numbered from 1 to 2048. Thus the key value is actually the vector number minus 1 (0 to 2047).

**Attribute:**
vredirect
**Fullname:**
Vector to which calls are to be redirected
**Attribute Description:**
When the 'redirect' attribute is set to DBYES, the 'vredirect' attribute specifies the vector to which calls should be redirected (the value is the vector number minus 1). Note that this redirection is NOT recursive. The 'redirect' attribute in the vector to which calls are redirected are ignored. Moreover, the redirection attributes are NOT examined when vector processing branches to another vector using a conditional or unconditional GOTO step.

**Attribute:**
active
**Fullname:**
Vector Activated
**Attribute Description:**
This attributes allows a vector to be deactivated.
While this attribute is DBNO, all calls to an ACD DN that are assigned this vector will instead receive standard treatment (calls are placed into a queue according to call type determined, receives one of three announcements depending on the expected delay, and then hears audible ring until an agent answers). This allows the vector to be 'quarantined' while being edited.

**Attribute:**
redirect
**Fullname:**
Redirection of vector assignment enabling attribute
**Attribute Description:**
This attribute allows the redirection to another vector. If set to DBYES, new calls that ordinarily would have begun vector processing on this vector will instead be redirected to the vector specified in the 'vredirect' attribute.

**Attribute:**
step1
**Fullname:**
Step 1 of vector 'program'
**Attribute Description:**

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This attribute defines the first step in this 15-step vector.

**Attribute:**
step1.cmdcode
**Fullname:**
command code of vector step
**Attribute Description:**
This subattribute defines the function to be performed by this vector step (such as GOTO, NOOP, RING, ...).

**Attribute:**
step1.arg2
**Fullname:**
vector step's second command argument
**Attribute Description:**
This subattribute records 1 of two arguments needed by the various vector step command codes (cmdcode). Its permissible range of values and its meaning is determined by the contents of the cmdcode subattribute.

**Attribute:**
step1.arg1
**Fullname:**
vector step's first command argument
**Attribute Description:**
This subattribute records 1 of two arguments needed by the various vector step command codes (cmdcode). Its permissible range of values and its meaning is determined by the contents of the cmdcode subattribute.

**Attribute:**
step1.errstp
**Fullname:**
Error Treatment Step number
**Attribute Description:**
Certain vector commands are subject to failure due to a number of reasons (For example, MUSIC can fail to route to a music source port because it is already connected to the maximum number of calls it can support). When such failures occur, vector processing can be diverted to an error treatment by specifying the first vector step of the error treatment in this subattribute.

**Attribute:**
step1.carg1
**Fullname:**
Conditional GOTO argument 1
**Attribute Description:**

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This subattribute records 1 of two arguments needed by the various conditional GOTO commands that can be placed in the cmdcode attribute. Its permissible range of values and its meaning is determined by which conditional GOTO command is in the cmdcode subattribute.

**Attribute:**
step1.carg2
**Fullname:**
Conditional GOTO argument 2
**Attribute Description:**
This subattribute records 1 of two arguments needed by the various conditional GOTO commands that can be placed in the cmdcode attribute. Its permissible range of values and its meaning is determined by which conditional GOTO command is in the cmdcode subattribute.

This subattribute is also used with the PROMPT, ANNOUNC, and DISC commands when the route index (step1.arg1) is associated with an immediate start announcement trunk group. This argument will contain an announcement index for the immediate start announcement (17A announcement machine).

**Attribute:**
step1.cond
**Fullname:**
Conditional test
**Attribute Description:**
This subattribute is used to specify the condition of a conditional GOTO step. For example, if this subattribute contains a value of FI_LE, the branch will occur if the parameter being tested (such as number of calls in a queue) is less than or equal to the threshold specified in carg1 and/or carg2.

**Attribute:**
step2
**Fullname:**
Step 2 of vector 'program'
**Attribute Description:**
This attribute defines the second vector step

**Attribute:**
step2.cmdcode
**Fullname:**
command code of vector step
**Attribute Description:**
Usage is same as for step1.cmdcode subattribute

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**Attribute:**
step2.arg2
**Fullname:**
vector step's second command argument
**Attribute Description:**
Usage is same as for step1.arg2 subattribute

**Attribute:**
step2.arg1
**Fullname:**
vector step's first command argument
**Attribute Description:**
Usage is same as for step1.arg1 subattribute

**Attribute:**
step2.errstp
**Fullname:**
Error Treatment Step number
**Attribute Description:**
Usage is same as for step1.errstp subattribute

**Attribute:**
step2.carg1
**Fullname:**
Conditional GOTO argument 1
**Attribute Description:**
Usage is same as for step1.carg1 subattribute

**Attribute:**
step2.carg2
**Fullname:**
Conditional GOTO argument 2
**Attribute Description:**
Usage is same as for step1.carg2 subattribute

**Attribute:**
step2.cond
**Fullname:**
Conditional test
**Attribute Description:**
Usage is same as for step1.cond subattribute

**Attribute:**
step3
**Fullname:**
Step 3 of vector 'program'

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**Attribute Description:**
This attribute defines the third vector step

**Attribute:**
step3.cmdcode
**Fullname:**
command code of vector step
**Attribute Description:**
Usage is same as for step1.cmdcode subattribute

**Attribute:**
step3.arg2
**Fullname:**
vector step's second command argument
**Attribute Description:**
Usage is same as for step1.arg2 subattribute

**Attribute:**
step3.arg1
**Fullname:**
vector step's first command argument
**Attribute Description:**
Usage is same as for step1.arg1 subattribute

**Attribute:**
step3.errstp
**Fullname:**
Error Treatment Step number
**Attribute Description:**
Usage is same as for step1.errstp subattribute

**Attribute:**
step3.carg1
**Fullname:**
Conditional GOTO argument 1
**Attribute Description:**
Usage is same as for step1.carg1 subattribute

**Attribute:**
step3.carg2
**Fullname:**
Conditional GOTO argument 2
**Attribute Description:**
Usage is same as for step1.carg2 subattribute

**Attribute:**

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step3.cond

**Fullname:**

Conditional test

**Attribute Description:**

Usage is same as for step1.cond subattribute

**Attribute:**

step4

**Fullname:**

Step 4 of vector 'program'

**Attribute Description:**

This attribute defines the fourth vector step

**Attribute:**

step4.cmdcode

**Fullname:**

command code of vector step

**Attribute Description:**

Usage is same as for step1.cmdcode subattribute

**Attribute:**

step4.arg2

**Fullname:**

vector step's second command argument

**Attribute Description:**

Usage is same as for step1.arg2 subattribute

**Attribute:**

step4.arg1

**Fullname:**

vector step's first command argument

**Attribute Description:**

Usage is same as for step1.arg1 subattribute

**Attribute:**

step4.errstp

**Fullname:**

Error Treatment Step number

**Attribute Description:**

Usage is same as for step1.errstp subattribute

**Attribute:**

step4.carg1

**Fullname:**

Conditional GOTO argument 1

**Attribute Description:**

Usage is same as for step1.carg1 subattribute

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**Attribute:**
step4.carg2
**Fullname:**
Conditional GOTO argument 2
**Attribute Description:**
Usage is same as for step1.carg2 subattribute

**Attribute:**
step4.cond
**Fullname:**
Conditional test
**Attribute Description:**
Usage is same as for step1.cond subattribute

**Attribute:**
step5
**Fullname:**
Step 5 of vector 'program'
**Attribute Description:**
This attribute defines the fifth vector step

**Attribute:**
step5.cmdcode
**Fullname:**
command code of vector step
**Attribute Description:**
Usage is same as for step1.cmdcode subattribute

**Attribute:**
step5.arg2
**Fullname:**
vector step's second command argument
**Attribute Description:**
Usage is same as for step1.arg2 subattribute

**Attribute:**
step5.arg1
**Fullname:**
vector step's first command argument
**Attribute Description:**
Usage is same as for step1.arg1 subattribute

**Attribute:**
step5.errstp
**Fullname:**

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Error Treatment Step number

**Attribute Description:**

Usage is same as for step1.errstp subattribute

**Attribute:**

step5.carg1

**Fullname:**

Conditional GOTO argument 1

**Attribute Description:**

Usage is same as for step1.carg1 subattribute

**Attribute:**

step5.carg2

**Fullname:**

Conditional GOTO argument 2

**Attribute Description:**

Usage is same as for step1.carg2 subattribute

**Attribute:**

step5.cond

**Fullname:**

Conditional test

**Attribute Description:**

Usage is same as for step1.cond subattribute

**Attribute:**

step6

**Fullname:**

Step 6 of vector 'program'

**Attribute Description:**

This attribute defines the sixth vector step

**Attribute:**

step6.cmdcode

**Fullname:**

command code of vector step

**Attribute Description:**

Usage is same as for step1.cmdcode subattribute

**Attribute:**

step6.arg2

**Fullname:**

vector step's second command argument

**Attribute Description:**

Usage is same as for step1.arg2 subattribute

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**Attribute:**
step6.arg1
**Fullname:**
vector step's first command argument
**Attribute Description:**
Usage is same as for step1.arg1 subattribute

**Attribute:**
step6.errstp
**Fullname:**
Error Treatment Step number
**Attribute Description:**
Usage is same as for step1.errstp subattribute

**Attribute:**
step6.carg1
**Fullname:**
Conditional GOTO argument 1
**Attribute Description:**
Usage is same as for step1.carg1 subattribute

**Attribute:**
step6.carg2
**Fullname:**
Conditional GOTO argument 2
**Attribute Description:**
Usage is same as for step1.carg2 subattribute

**Attribute:**
step6.cond
**Fullname:**
Conditional test
**Attribute Description:**
Usage is same as for step1.cond subattribute

**Attribute:**
step7
**Fullname:**
Step 7 of vector 'program'
**Attribute Description:**
This attribute defines the seventh vector step

**Attribute:**
step7.cmdcode
**Fullname:**
command code of vector step
**Attribute Description:**

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Usage is same as for step1.cmdcode subattribute

**Attribute:**
step7.arg2
**Fullname:**
vector step's second command argument
**Attribute Description:**
Usage is same as for step1.arg2 subattribute

**Attribute:**
step7.arg1
**Fullname:**
vector step's first command argument
**Attribute Description:**
Usage is same as for step1.arg1 subattribute

**Attribute:**
step7.errstp
**Fullname:**
Error Treatment Step number
**Attribute Description:**
Usage is same as for step1.errstp subattribute

**Attribute:**
step7.carg1
**Fullname:**
Conditional GOTO argument 1
**Attribute Description:**
Usage is same as for step1.carg1 subattribute

**Attribute:**
step7.carg2
**Fullname:**
Conditional GOTO argument 2
**Attribute Description:**
Usage is same as for step1.carg2 subattribute

**Attribute:**
step7.cond
**Fullname:**
Conditional test
**Attribute Description:**
Usage is same as for step1.cond subattribute

**Attribute:**
step8

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**Fullname:**
Step 8 of vector 'program'
**Attribute Description:**
This attribute defines the eighth vector step

**Attribute:**
step8.cmdcode
**Fullname:**
command code of vector step
**Attribute Description:**
Usage is same as for step1.cmdcode subattribute

**Attribute:**
step8.arg2
**Fullname:**
vector step's second command argument
**Attribute Description:**
Usage is same as for step1.arg2 subattribute

**Attribute:**
step8.arg1
**Fullname:**
vector step's first command argument
**Attribute Description:**
Usage is same as for step1.arg1 subattribute

**Attribute:**
step8.errstp
**Fullname:**
Error Treatment Step number
**Attribute Description:**
Usage is same as for step1.errstp subattribute

**Attribute:**
step8.carg1
**Fullname:**
Conditional GOTO argument 1
**Attribute Description:**
Usage is same as for step1.carg1 subattribute

**Attribute:**
step8.carg2
**Fullname:**
Conditional GOTO argument 2
**Attribute Description:**
Usage is same as for step1.carg2 subattribute

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**Attribute:**
step8.cond
**Fullname:**
Conditional test
**Attribute Description:**
Usage is same as for step1.cond subattribute

**Attribute:**
step9
**Fullname:**
Step 9 of vector 'program'
**Attribute Description:**
This attribute defines the ninth vector step

**Attribute:**
step9.cmdcode
**Fullname:**
command code of vector step
**Attribute Description:**
Usage is same as for step1.cmdcode subattribute

**Attribute:**
step9.arg2
**Fullname:**
vector step's second command argument
**Attribute Description:**
Usage is same as for step1.arg2 subattribute

**Attribute:**
step9.arg1
**Fullname:**
vector step's first command argument
**Attribute Description:**
Usage is same as for step1.arg1 subattribute

**Attribute:**
step9.errstp
**Fullname:**
Error Treatment Step number
**Attribute Description:**
Usage is same as for step1.errstp subattribute

**Attribute:**
step9.carg1
**Fullname:**
Conditional GOTO argument 1

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**Attribute Description:**
Usage is same as for step1.carg1 subattribute

**Attribute:**
step9.carg2
**Fullname:**
Conditional GOTO argument 2
**Attribute Description:**
Usage is same as for step1.carg2 subattribute

**Attribute:**
step9.cond
**Fullname:**
Conditional test
**Attribute Description:**
Usage is same as for step1.cond subattribute

**Attribute:**
step10
**Fullname:**
Step 10 of vector 'program'
**Attribute Description:**
This attribute defines the tenth vector step

**Attribute:**
step10.cmdcode
**Fullname:**
command code of vector step
**Attribute Description:**
Usage is same as for step1.cmdcode subattribute

**Attribute:**
step10.arg2
**Fullname:**
vector step's second command argument
**Attribute Description:**
Usage is same as for step1.arg2 subattribute

**Attribute:**
step10.arg1
**Fullname:**
vector step's first command argument
**Attribute Description:**
Usage is same as for step1.arg1 subattribute

**Attribute:**

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step10.errstp

**Fullname:**

Error Treatment Step number

**Attribute Description:**

Usage is same as for step1.errstp subattribute

**Attribute:**

step10.carg1

**Fullname:**

Conditional GOTO argument 1

**Attribute Description:**

Usage is same as for step1.carg1 subattribute

**Attribute:**

step10.carg2

**Fullname:**

Conditional GOTO argument 2

**Attribute Description:**

Usage is same as for step1.carg2 subattribute

**Attribute:**

step10.cond

**Fullname:**

Conditional test

**Attribute Description:**

Usage is same as for step1.cond subattribute

**Attribute:**

step11

**Fullname:**

Step 11 of vector 'program'

**Attribute Description:**

This attribute defines the eleventh vector step

**Attribute:**

step11.cmdcode

**Fullname:**

command code of vector step

**Attribute Description:**

Usage is same as for step1.cmdcode subattribute

**Attribute:**

step11.arg2

**Fullname:**

vector step's second command argument

**Attribute Description:**

Usage is same as for step1.arg2 subattribute

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**Attribute:**
step11.arg1
**Fullname:**
vector step's first command argument
**Attribute Description:**
Usage is same as for step1.arg1 subattribute

**Attribute:**
step11.errstp
**Fullname:**
Error Treatment Step number
**Attribute Description:**
Usage is same as for step1.errstp subattribute

**Attribute:**
step11.carg1
**Fullname:**
Conditional GOTO argument 1
**Attribute Description:**
Usage is same as for step1.carg1 subattribute

**Attribute:**
step11.carg2
**Fullname:**
Conditional GOTO argument 2
**Attribute Description:**
Usage is same as for step1.carg2 subattribute

**Attribute:**
step11.cond
**Fullname:**
Conditional test
**Attribute Description:**
Usage is same as for step1.cond subattribute

**Attribute:**
step12
**Fullname:**
Step 12 of vector 'program'
**Attribute Description:**
This attribute defines the twelvth vector step

**Attribute:**
step12.cmdcode
**Fullname:**

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command code of vector step

**Attribute Description:**

Usage is same as for step1.cmdcode subattribute

**Attribute:**

step12.arg2

**Fullname:**

vector step's second command argument

**Attribute Description:**

Usage is same as for step1.arg2 subattribute

**Attribute:**

step12.arg1

**Fullname:**

vector step's first command argument

**Attribute Description:**

Usage is same as for step1.arg1 subattribute

**Attribute:**

step12.errstp

**Fullname:**

Error Treatment Step number

**Attribute Description:**

Usage is same as for step1.errstp subattribute

**Attribute:**

step12.carg1

**Fullname:**

Conditional GOTO argument 1

**Attribute Description:**

Usage is same as for step1.carg1 subattribute

**Attribute:**

step12.carg2

**Fullname:**

Conditional GOTO argument 2

**Attribute Description:**

Usage is same as for step1.carg2 subattribute

**Attribute:**

step12.cond

**Fullname:**

Conditional test

**Attribute Description:**

Usage is same as for step1.cond subattribute

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**Attribute:**
step13
**Fullname:**
Step 13 of vector 'program'
**Attribute Description:**
This attribute defines the thirteenth vector step

**Attribute:**
step13.cmdcode
**Fullname:**
command code of vector step
**Attribute Description:**
Usage is same as for step1.cmdcode subattribute

**Attribute:**
step13.arg2
**Fullname:**
vector step's second command argument
**Attribute Description:**
Usage is same as for step1.arg2 subattribute

**Attribute:**
step13.arg1
**Fullname:**
vector step's first command argument
**Attribute Description:**
Usage is same as for step1.arg1 subattribute

**Attribute:**
step13.errstp
**Fullname:**
Error Treatment Step number
**Attribute Description:**
Usage is same as for step1.errstp subattribute

**Attribute:**
step13.carg1
**Fullname:**
Conditional GOTO argument 1
**Attribute Description:**
Usage is same as for step1.carg1 subattribute

**Attribute:**
step13.carg2
**Fullname:**
Conditional GOTO argument 2
**Attribute Description:**

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Usage is same as for step1.carg2 subattribute

**Attribute:**
step13.cond
**Fullname:**
Conditional test
**Attribute Description:**
Usage is same as for step1.cond subattribute

**Attribute:**
step14
**Fullname:**
Step 14 of vector 'program'
**Attribute Description:**
This attribute defines the fourteenth vector step

**Attribute:**
step14.cmdcode
**Fullname:**
command code of vector step
**Attribute Description:**
Usage is same as for step1.cmdcode subattribute

**Attribute:**
step14.arg2
**Fullname:**
vector step's second command argument
**Attribute Description:**
Usage is same as for step1.arg2 subattribute

**Attribute:**
step14.arg1
**Fullname:**
vector step's first command argument
**Attribute Description:**
Usage is same as for step1.arg1 subattribute

**Attribute:**
step14.errstp
**Fullname:**
Error Treatment Step number
**Attribute Description:**
Usage is same as for step1.errstp subattribute

**Attribute:**
step14.carg1

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**Fullname:**
Conditional GOTO argument 1
**Attribute Description:**
Usage is same as for step1.carg1 subattribute

**Attribute:**
step14.carg2
**Fullname:**
Conditional GOTO argument 2
**Attribute Description:**
Usage is same as for step1.carg2 subattribute

**Attribute:**
step14.cond
**Fullname:**
Conditional test
**Attribute Description:**
Usage is same as for step1.cond subattribute

**Attribute:**
step15
**Fullname:**
Step 15 of vector 'program'
**Attribute Description:**
This attribute defines the fifteenth vector step

**Attribute:**
step15.cmdcode
**Fullname:**
command code of vector step
**Attribute Description:**
Usage is same as for step1.cmdcode subattribute

**Attribute:**
step15.arg2
**Fullname:**
vector step's second command argument
**Attribute Description:**
Usage is same as for step1.arg2 subattribute

**Attribute:**
step15.arg1
**Fullname:**
vector step's first command argument
**Attribute Description:**
Usage is same as for step1.arg1 subattribute

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**Attribute:**
step15.errstp
**Fullname:**
Error Treatment Step number
**Attribute Description:**
Usage is same as for step1.errstp subattribute

**Attribute:**
step15.carg1
**Fullname:**
Conditional GOTO argument 1
**Attribute Description:**
Usage is same as for step1.carg1 subattribute

**Attribute:**
step15.carg2
**Fullname:**
Conditional GOTO argument 2
**Attribute Description:**
Usage is same as for step1.carg2 subattribute

**Attribute:**
step15.cond
**Fullname:**
Conditional test
**Attribute Description:**
Usage is same as for step1.cond subattribute

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## 2.18 RELATIONS: R

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# R_HOLEQ

## 1. Description

RMS-D3 static relation that stores unused rqkeys deleted from RLr_holeq indirectly via RC/V.

Capabilities: *5ESS* ®-2000 toll switch RMS-D3

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 72 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
R_HOLEQ     relid = 848   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     rqkey       DMUNS16      (ushort)  <--- key
  (a) rdummy1     DMUNS1       (ushort: 1)
         User, Compacted and Stored Tuple Layout    R_HOLEQ
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               | |                             |
  0 |             rqkey             |a|*****************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLr_holeq

**Relation Description**
Hole queue.

Whenever an RMS-D3 r_qkeypt relation tuple is deleted a new tuple should be added to this relation using the r_qkeypt tuple key rqkey as its key. When a new RMS-D3 r_qkeypt tuple is to be inserted, the key rqkey will be found in this relation by searching for the first defined tuple and the key to that tuple will be the key to the new RMS-D3 r_qkeypt tuple. The tuple in this relation will be deleted in this case. If there are no tuples in this relation then the r_qkeypt tuple key will be the number found in RLrc_idx.rmsidx.

Whenever an RMS-D3 r_qkeypt relation tuple is deleted a new tuple should be added to this relation using the r_qkeypt tuple key rqkey as its key.

**Attribute: rqkey**

**Fullname:** hole queue

**Attribute Description** Whenever an RMS-D3 r_qkeypt relation tuple is deleted a new tuple should be added to this relation using the r_qkeypt tuple key rqkey as its key.

When a new RMS-D3 r_qkeypt tuple is to be inserted, the key rqkey will be found in this relation by searching for the first defined tuple and the key to that tuple will be the key to the new RMS-D3

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r_qkeypt tuple. The tuple in this relation will be deleted in this case.

**Attribute: rdummy1**

**Fullname:** dummy, not used

**Attribute Description** Dummy attribute, it is not used.

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# R_QKEYPT

## 1. Description

Static mapping from RMS-D3 gport key to random mapping number.
Capabilities: *5ESS*®-2000 toll switch RMS-D3.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 72 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RMSD3 |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| trigger function | TMrmstrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
R_QKEYPT    relid = 803   DBSTATIC   DBACC_HASH  DBPRAM    LP      RMSD3
     port        DMPORT       (ushort)  <--- key
     rqkey       DMUNS16      (ushort)
     module      DMMODULE     (ushort: 8)  <--- key
         User, Compacted and Stored Tuple Layout   R_QKEYPT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              port             |              rqkey            |
    |---------------+---------------+---------------+---------------|
    |                |                                              |
  4 |     module     |**********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLr_qkeypt

**Relation Description**
Gport number to random mapping number relation.

This relation maps from a remote measurement system (RMS-D3) gport number to a random number, 0-71, used as a key into the dynamic RMS-D3 relation.
A qkey is required for each RMS-D3 port. The RLr_holeq relations holds any unused rqkeys in a sequence. The RLrc_idx holds the counter attribute, rmsidx, used to get the next rqkey number in the event none exist in RLr_holeq.

**Attribute: module**

**Fullname:** RMS-D3 SM module number

**Attribute Description** This attribute indicates the SM number of the TAT.

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**Attribute: port**

**Fullname:** RMS-D3 port (member) number

**Attribute Description** This attribute contains the port number of the TAT.

**Attribute: rqkey**

**Fullname:** Random number

**Attribute Description** This attribute is a random number serving as a mapping from gport. It is a singular value assigned by an office, ODA or RCV.

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# RAF_MBD

## 1. Description

RAF memory board data per unit.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
RAF_MBD     relid = 960   DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL
     raf_picb    DMPICB       (uchar)     <--- key
     mbd1_mc     DMTEXT12     (array [ 12 ] of char )
     mbd2_mc     DMTEXT12     (array [ 12 ] of char )
     mbd3_mc     DMTEXT12     (array [ 12 ] of char )
     raf_app     DMTEXT8      (array [ 8 ] of char )
         User, Compacted and Stored Tuple Layout    RAF_MBD
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |    raf_picb   |                   mbd1_mc                     |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                           mbd1_mc                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                           mbd1_mc                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |               |                                               |
 12 |    mbd1_mc    |                   mbd2_mc                     |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                           mbd2_mc                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                           mbd2_mc                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |               |                                               |
 24 |    mbd2_mc    |                   mbd3_mc                     |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 28 |                           mbd3_mc                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 32 |                           mbd3_mc                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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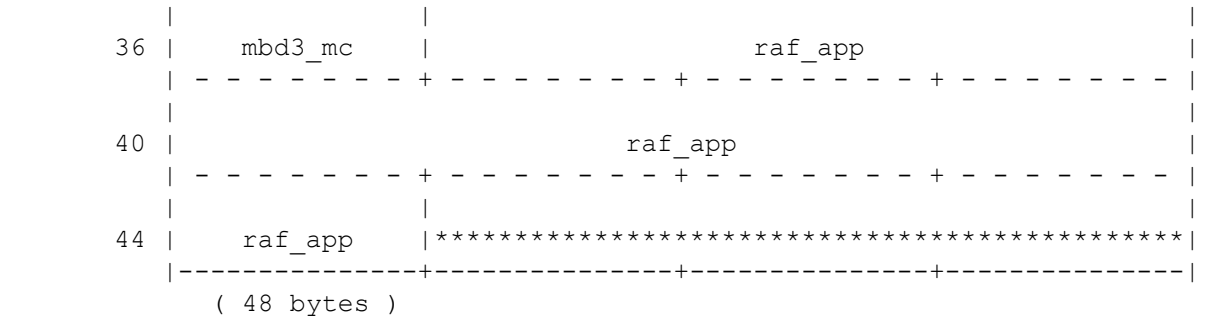


## 4. Population Rules for RLraf_mbd

**Relation Description**
RAF and SAS memory board data per unit.

Stores the application and memory board micro-codes for an RAF. Stores the application for a SAS.

**Attribute: raf_picb**

**Fullname:** peripheral interface control bus

**Attribute Description** peripheral interface control bus for a DSU2-RAF or SAS

**Attribute: raf_app**

**Fullname:** application for the RAF or SAS memory boards

**Attribute Description** 8 chars of text denoting application of the DSU2-RAF (no default value), currently used BUT NOT RESTRICTED TO:

```
OSPS-DA  -  OSPS Directory Assistance
OSPS-TA  -  OSPS Toll and Assist
OSPS-CTR -  OSPS Coin Tone Receiver
800-DA   -  OSPS 1-800 Directory Assistance
BRCS-RAS -  BRCS Remote Access Service
ISDN-ACS -  BRCS Automatic Customer Station
            Rearrangement
ASP      -  Advanced Services Platform
BRCS-SLE -  BRCS Screen List Editing
```

BRCS-2LV - BRCS 2-Level Activation of Customer Originated Trace and Automatic Callback

Or, for SAS, this attribute will contain the NULL string if no memory flash cards have been defined for the SAS unit. Else it will contain the SAS application type, currently used BUT NOT RESTRICTED TO:

```
  TACCT    -  Toll Digital Exchange (TDX) account codes
```

**Attribute: mbd1_mc**

**Fullname:** micro code for memory board 1

**Attribute Description** 12 chars of text containing the micro-code of the first DSU2-RAF memory board (no default value).
OR
This attribute will always contain the null string for SAS memory boards, since microcodes are not

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used for SASs

Only first 8 characters of the microcode are significant. The last four characters are not used by the switch and thus should be defaulted to 0001 by both RC and ODA.

CHARACTER RANGE: 'A-Z', '0-9'

The following layout shows the valid microcodes for each memory board for available RAF applications ( J-drawing J5D003EA-1 ):

| RAF APPLICATION | MEMORY BOARDS | | |
|---|---|---|---|
| | mbd1_mc / LIST# | mbd2_mc / LIST# | mbd3_mc / LIST# |
| OSPS-DA | 5D087A10 L4 | null entry | null entry |
| OSPS-TA | 5D114A40 L10 | 5D172A10 * 5D172A20 * 5D172A30 * L24 | null entry null entry null entry |
| OSPS-CTR | 5D114A10 L10 | null entry | null entry |
| 800-DA | 5D144A10 L11 | null entry | null entry |
| BRCS-RAS | 5D142A10 L12 | null entry | null entry |
| ISDN-ACS | 5D142A10 L12 | 5D143A30 L23 | null entry |
| OSPS-TA customized announcements | 5D114A40 L10 | 5D155A10 L15 | 5D172A10 ** 5D172A20 ** 5D172A30 ** L24 |
| ASP | 5D151A10 L14 | null entry | null entry |
| BRCS-SLE (5E7) | 5D142A10 L12 | 5D143A30 L23 | null entry |
| BRCS-SLE (5E7) | 5D142A20 L22 | 5D143A30 L23 | null entry |
| BRCS-2LV | 5D142A20 L22 | null entry | null entry |

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| | L22 | L18 | |
|---|---|---|---|

SERVICE DESCRIPTIONS:

The RAF supports three different types of services. The types of services and a short description of each service follows:

(1) ANN Announcement service provides announcements without any tone decoding capability. Tone signals or coin information is ignored by the RAF and SAS. (For RAF and SAS - maximum 32 PC_ANN channels, that is, PIDB timeslots)

(2) DTA Dial Through Announcement service provides announcements while also collecting tone information which may be used to control the announcement being played.
(For RAFs - maximum 20 PCDTA channels, that is, PIDB timeslots)
(For SASs - maximum 32 PCDTA channels, that is, PIDB timeslots)

(3) COIN Dial through announcement with coin detection (CTR) provides announcements while also collecting coin information which may be used to control the announcement being played.
(For RAFs - maximum 20 PCCTR channels, that is, PIDB timeslots)
(For SASs - maximum 32 PCDTA channels, that is, PIDB timeslots)

APPLICATION DEPENDENCIES

Generally, each application that uses the RAF requires specific services to be available on the RAF. The current applications that are available and the services that they require are listed here:

(1) OSPS-DA OSPS Directory Assistance requires ANN services.

(2) OSPS-TA OSPS Toll and Assistance requires DTA services.
*Memory board 5D172A10[L24] is an optional board containing additional OSPS-TA announcement phrases for 5E7SU and 5E8. For 5E8SU and later software releases Memory board 5D172A20[L24] is the optional board containing additional OSPS-TA announcement phrases. This optional board must appear as the second board, with 5D114A40[L10] as the first board. For 5E9 and later software releases Memory board 5D172A30[L24] is the optional board containing additional OSPS-TA announcement phrases. This optional board must appear as the second board, with 5D114A40[L10] as the first board.
**When used with memory board 5D155A10[L15], the two may be equipped in any order in the second and third positions.

(3) OSPS-CTR OSPS Coin Tone Receiver requires COIN services.

(4) 800-DA 800 Service Directory Assistance requires ANN services.

(5) BRCS-RAS Remote Access to Call Forwarding requires DTA services.

(6) ISDN-ACS ISDN Automatic Customer Station Rearrangement requires DTA services. It also contains announcements for BRCS-RAS.

(7) ASP Advanced Services Platform requires DTA services.

(8) BRCS-SLE LASS Screen List Editing requires DTA services. It also contains announcements for BRCS-RAS and the ISDN-ACS using the first 5E7 microcodes[L12,L23] set and BRCS-RAS, ISDN-ACS and BRCS-2LV using the second 5E7 microcodes set

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[L22,L23].

(9) BRCS-2LV LASS 2-Level activation of Customer Originated Trace and Automatic Callback requires DTA services. It also contains announcements for BRCS-RAS.

**Attribute: mbd2_mc**

**Fullname:** micro code for memory board 2

**Attribute Description** same format as mbd1_mc for second memory board except value defaults to NULL string if board is not equipped or this is a SAS memory board.
See the layout under 'attribute mbd1_mc usage' section for possible microcodes for this attribute and their corresponding list numbers.

**Attribute: mbd3_mc**

**Fullname:** micro code for memory board 3

**Attribute Description** same format as mbd1_mc for third memory board except value defaults to NULL string if board is not equipped OR this is a SAS memory board.
See the layout under 'attribute mbd1_mc usage' section for possible microcodes for this attribute and their corresponding list numbers.

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# RAS_IDP

## 1. Description

This relation maps a Remote Access Service (RAS) DSU2 announcement Route Index (RI) to its corresponding IDP group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 512 |
| expected tuples in relation | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
RAS_IDP     relid = 1115  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     annc_ri     DMRTEIDX     (ushort: 14)     <--- key, not stored
     annc_idp    DMIDP_GPID   (ushort)
     digtree     DMDA_TREE    (ushort: 7)
 (a) idp_rstr    DMBOOL       (enum: 1)
         User and Compacted Tuple Layout    RAS_IDP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |          annc_ri              |*******************************|
    |---------------+---------------+---------------+---------------|
    |                               |             | |               |
  4 |            annc_idp           |   digtree   |a|***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     annc_idp    DMIDP_GPID   (ushort)
     digtree     DMDA_TREE    (ushort: 7)
 (a) idp_rstr    DMBOOL       (enum: 1)
           Stored Tuple Layout      RAS_IDP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |             | |               |
  0 |            annc_idp           |   digtree   |a|***************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLras_idp

**Relation Description**
Remote Access Service (RAS) Announcement Route Index (RI) to Individual Dialing Plan (IDP) relational Information.

This relation is used to store the information about the IDP that corresponds to a particular announcement RI used by RAS

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**Attribute: annc_ri**

**Fullname:** RAS Announcement Route Index

**Attribute Description** This is the announcement route index which RTA uses to route a Remote Access Directory Number (RADN) to a DSU2-RAF-DTA. Note that RCV cannot determine if this is a valid route index for RAS but only that it is a valid announcement index :

**Attribute: annc_idp**

**Fullname:** Announcement Route Index Individualized Dialing Plan

**Attribute Description** This attribute maps a DSU2-RAF-DTA RI to a particular IDP. A value of 0 indicates there is no idp group.

**Attribute: idp_rstr**

**Fullname:** Individualized Dialing Plan Restriction

**Attribute Description** This attribute indicates whether or not an originating port must be in the IDP group as specified by annc_idp. It can take both DBYES and DBNO values

```
DBYES       /* Must be in the same IDP */
DBNO        /* Can be in a different IDP */
```

**Attribute: digtree**

**Fullname:** Digit Analysis Digit Tree Selector

**Attribute Description** This attribute is used to store the digit analysis table identifier which is used in call processing to tell what table to start in for analyzing the numbers dialed

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# RATEPERD

## 1. Description

This relation defines the 4 rate periods associated with the hour of the day and the day of the week. This relation is for ISDN Packet Switching Billing only.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 192 |
| expected number of tuples | 192 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| trigger function | AMrateprd |
| insert trigger | DBNO |
| update trigger | DBYES |
| delete trigger | DBNO |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
RATEPERD    relid = 829   DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     hrofday     DMHROFDAY    (uchar: 5)  <--- key
 (a) dayofwk     DMDAYOFWK    (enum: 3)  <--- key
 (b) rateprd     DMRATEPRD    (enum: 2)
         User and Compacted Tuple Layout   RATEPERD
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |          |     |   |                                         |
  0 | hrofday |  a  | b |*****************************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
     hrofday     DMHROFDAY    (uchar: 5)  <--- key
 (a) dayofwk     DMDAYOFWK    (enum: 3)  <--- key
 (b) rateprd     DMRATEPRD    (enum: 2)
           Stored Tuple Layout     RATEPERD
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |          |     |   |                                         |
  0 | hrofday |  a  | b |*****************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLrateperd

**Relation Description**
Rate period.

This relation defines one of 4 rate periods for billing purposes. The rate period is found based on the hour of the day and the day of the week.

There should be 24 (hours) X 8 (days) = 192 tuples in this relation for each ISDN Packet Switching SM.

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Table of initialized values (based on the current 1PSS setup):

| Hour of day | Day of week | Rate period |
|---|---|---|
| 00:00 - 07:59 | MONDAY - HOLIDAY | 1 |
| 08:00 - 16:59 | MONDAY - HOLIDAY | 2 |
| 17:00 - 22:59 | MONDAY - HOLIDAY | 3 |
| 23:00 - 23:59 | MONDAY - HOLIDAY | 4 |

**Attribute: hrofday**

**Fullname:** Hour of day

**Attribute Description** Hour of the day (key1), ranges from 0 to 23:

```
0 :    0:00 to 0:59
1 :    1:00 to 1:59
  etc.
23 :   23:00 to 23:59
```

For efficient memory use, it should be assigned sequentially.

**Attribute: dayofwk**

**Fullname:** Day of week

**Attribute Description** Day of the week (key2), enum values are:

```
MONDAY, TUESDAY,  WEDNESDAY,  THURSDAY,
FRIDAY, SATURDAY, SUNDAY, and HOLIDAY.
```

**Attribute: rateprd**

**Fullname:** Rate period

**Attribute Description** The rate period in which to bill the customer.

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# RBP_SC

## 1. Description

Relation that maps logical point number to an office assigned name, normal state, alarm level, and port for Multimodule RSM alarm input and output option scan and distribute points terminating on the MMSU. This relation is used by the Remote Alarm Process (HMrmap). The information pertaining to the alarm input option is displayed on the MCC and contained in craft output messages. Information pertaining to the alarm output option is not displayed.

Client Process: HMrmap

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 70 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |

## 3. Field Layout

```
RBP_SC      relid = 429   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     port        DMPORT       (ushort)
     ttyname     DMCHR21      (array [ 21 ] of char )
     mccname     DMCHR9       (array [ 9 ] of char )
     ptnum       DMHMPOINT    (ushort: 8)     <--- key
 (a) normst      DMPNT_STAT   (enum: 3)
 (b) alm_lvl     DMHMSC_ALM   (enum: 3)
 (c) prot_rc     DMUNS2       (ushort: 2)
 (d) inuse       DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout RBP_SC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              port             |            ttyname            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  4 |                            ttyname                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  8 |                            ttyname                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 12 |                            ttyname                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 16 |                            ttyname                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                               |               |
 20 |                   ttyname                     |    mccname    |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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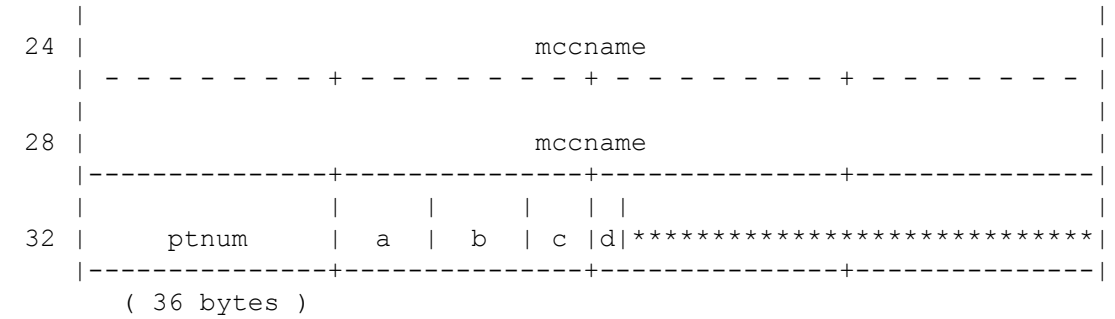


## 4. Population Rules for RLrbp_sc

**Relation Description**
remote alarm scan point assignments.

This relation maps logical point number to an office assigned name, normal state, alarm level, and port for Multimodule RSM alarm input and output option scan and distribute points terminating on the MMSU. This relation should only be populated for the Master RSM at an RSM site or the Master ORM/TRM in a colocated cluster.

This relation will also be populated in the single SM of VCDX and WNC (Wireless Centrex) offices.

This relation is used by the Remote Alarm Process (HMrmap). The information pertaining to the alarm input option is displayed on the MCC and contained in craft output messages. Information pertaining to the alarm output option is not displayed. Client Process: HMrmap

**Attribute: ptnum**

**Fullname:** logical point number as known by HMrmap

**Attribute Description** These logical point numbers should also be in the relation RLfc_porttyp under attribute sleevld.circuit with a servclass of HM_REM_ALM when the port attribute is specified in this relation. Range is 0-113, whereby 55-99 are not used. Tuples with ptnum values 0, 1, 32-54 are required scan points. Tuples with ptnum values 100-113 are required distribute points. These tuples are initialized according to TABLE-1 & 2 (in Attention ODA & RC Section). Tuples with ptnum values 2-31 are office assignable scan points.

**Attribute: inuse**

**Fullname:** indicates if point is in use or not

**Attribute Description** DBYES means the alarm is operational, which requires that the port attribute be specified. DBNO means that no alarms will be reported. Initialize according to TABLE-1 & 2 (in Attention ODA & RC Section)

**Attribute: mccname**

**Fullname:** office assigned label to be displayed on the MCC for the name of the point

**Attribute Description** Office assignable label of 9 ASCII characters to be displayed on the MCC for the name of the point. If less than 9 characters are supplied the remaining characters should be null. Initialize according to TABLE-1 & 2 (in Attention ODA & RC Section). Default is blank.

**Attribute: ttyname**

**Fullname:** office assigned label that appears in craft output messages concerning the alarm scan

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point

**Attribute Description** Office assignable label of 20 ASCII characters to be included in craft output messages concerning this alarm scan point. If less than 20 characters are supplied the remaining characters in the field should be null. The domain is 21 characters long, the 21st character position must be null. Initialize according to TABLE-1 (in Attention ODA & RC Section). Default is blank.

**Attribute: normst**

**Fullname:** indicates the normal state of alarm scan point

**Attribute Description** Normal state of point is either DBOPEN or DBCLOSED. The alarm state is the opposite of normal. This is determined by the type of sensor attached to the scan point in the office. Initialize according to TABLE-1 & 2 (in Attention ODA & RC Section)

**Attribute: alm_lvl**

**Fullname:** alarm level (CR, MJ, MN, ACT, INFO) generated when this point goes off normal

**Attribute Description** Alarm level sounded when scan point goes off-normal. This is office assigned based on the relative importance of the device being monitored. Initialize as shown in TABLE-1 & 2 (in Attention ODA & RC Section)

**Attribute: port**

**Fullname:** local port name

**Attribute Description** Hexadecimal local port name for the point. Since there are two ports (duplex, mirror image) associated with each point, one for service group 0 and the other for service group 1, only the local port name for service group 0 appears in this attribute. Note for ports associated with a CSU MMSU (rc_eqloc.com_shelf == DBYES), only one service group exists (service group 0). Therefore, duplex ports will not exist for CSU MMSU ports and only the service group 0 ports can be specified. If prot_rc is 1 or 2 these are voltage sensing MMSU scan points. If prot_rc is 3 these are MMSU distribute points. If prot_rc is 0 these maybe either voltage or current sensing MMSU scan points. When ever this attribute is modified, then the corres- ding new and old port information in the relation RLfc_porttyp must be updated such that the old port servclass is changed to RC_UNASSIG and the new port servclass is changed from RC_UNASSIG to HM_REM_ALM. But if the old port is 0, then the old port does not exit in relation RLfc_porttyp. Follow the population in RLfc_porttyp. Initialize according to TABLE-1 & 2 (in Attention ODA & RC Section)

**Attribute: prot_rc**

**Fullname:** protect tuple by limiting recent change activity to certain attributes only

**Attribute Description** When prot_rc is 0, the entire tuple can be deleted or updated. When prot_rc is 1, only attributes normst, and port can be updated. When prot_rc is 2, only attributes inuse, normst, alm_lvl, and port can be updated by recent change. When prot_rc is 3, only attribute port can be updated by recent change. All other attributes are not recent changeable except as stated. This attribute is not to be entered from any recent change view. This attribute is set to zero for tuples where ptnum is 2-31. There is no default value. Initialize as shown in TABLE-1 and TABLE-2 (in Attention ODA & RC Section)

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# RC_ACSRQ

## 1. Description

Automatic Customer Station Rearangement (ACSR) requests queue.

This is a virtual update relation. The tree diagram Figure 1 depicts the stored structure of virtual relation RC_ACSRQ.

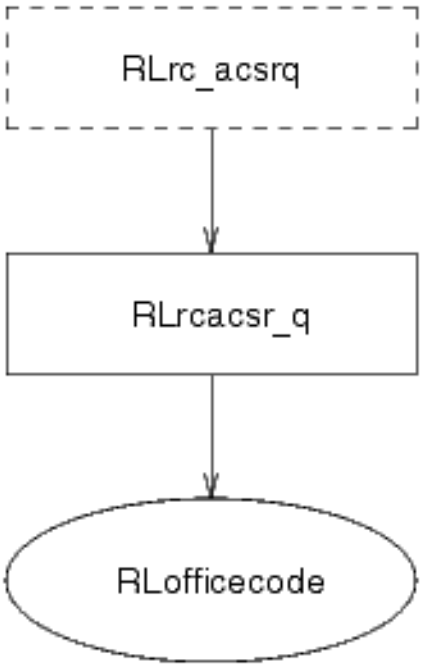


**Figure 1 Virtual Relation RC_ACSRQ**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | ACSR |
| relation type | DBNOUPDT |

## 3. Field Layout

```
RC_ACSRQ    relid = 2749  DBNOUPDT   DBACC_OPV   DBNOTODD  LP      ACSR
     time_entry  DMUNLONG     (ulong)
     epdn        DMEPDN       (struct)     <--- compacted
         nadig5      DMUNS4       (ushort: 4)
         nadig1      DMUNS4       (ushort: 4)
         nadig6      DMUNS4       (ushort: 4)
         nadig2      DMUNS4       (ushort: 4)
         nadig7      DMUNS4       (ushort: 4)
         nadig3      DMUNS4       (ushort: 4)
         nadig8      DMUNS4       (ushort: 4)
         nadig4      DMUNS4       (ushort: 4)
         nadig13     DMUNS4       (ushort: 4)
         nadig9      DMUNS4       (ushort: 4)
```

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```
        nadig14     DMUNS4       (ushort: 4)
        nadig10     DMUNS4       (ushort: 4)
        nadig15     DMUNS4       (ushort: 4)
        nadig11     DMUNS4       (ushort: 4)
(a)     nadigcnt    DMUNS4       (ushort: 4)
        nadig12     DMUNS4       (ushort: 4)
    port        DMPORT       (ushort)
    req_number  DMUNS10      (ushort: 10)     <--- key
(b) status      DMQSTAT      (enum: 2)
(c) non_epid    DMBOOL       (enum: 1)
(d) ama_rec     DMBOOL       (enum: 1)
    targ_mod    DMMODULE     (ushort: 8)
    src_mod     DMMODULE     (ushort: 8)
          User Tuple Layout      RC_ACSRQ
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                           time_entry                          |
   |===============+============  epdn ============+===============|
   |       |       |       |       |       |       |       |       |
 4 | nadig5| nadig1| nadig6| nadig2| nadig7| nadig3| nadig8| nadig4|
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
 8 |nadig13| nadig9|nadig14|nadig10|nadig15|nadig11|   a   |nadig12|
   |===============+===============+===============+===============|
   |                               |                   |   | | |   |
12 |              port             |     req_number    | b |c|d|***|
   |---------------+---------------+---------------+---------------|
   |               |               |                               |
16 |    targ_mod   |    src_mod    |*******************************|
   |---------------+---------------+---------------+---------------|
      ( 20 bytes )
    time_entry  DMUNLONG     (ulong)
    epdn        DMCEPDN      (struct)     <--- compacted
        npa         DMUNL10      (ulong: 10)
        nxx         DMUNL10      (ulong: 10)
        nadig8      DMUNS4       (ushort: 4)
        nadig7      DMUNS4       (ushort: 4)
        nadig13     DMUNS4       (ushort: 4)
        nadig9      DMUNS4       (ushort: 4)
        nadig14     DMUNS4       (ushort: 4)
        nadig10     DMUNS4       (ushort: 4)
        nadig15     DMUNS4       (ushort: 4)
        nadig11     DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        nadig12     DMUNS4       (ushort: 4)
    port        DMPORT       (ushort)
    req_number  DMUNS10      (ushort: 10)     <--- key
(a) status      DMQSTAT      (enum: 2)
(b) non_epid    DMBOOL       (enum: 1)
(c) ama_rec     DMBOOL       (enum: 1)
    targ_mod    DMMODULE     (ushort: 8)
    src_mod     DMMODULE     (ushort: 8)
```

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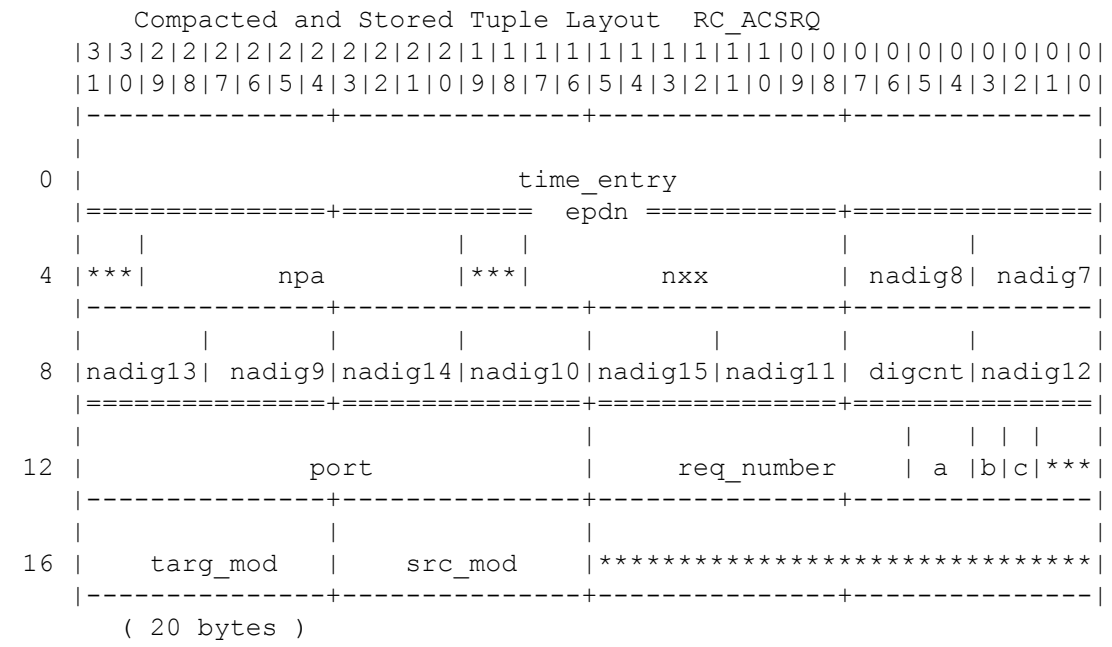


## 4. Population Rules for RLrc_acsrq

There are no population rules for this relation.

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# RC_ADMGP

## 1. Description

This relation provides for SCCP Recent Change a definition of the properties of an administration group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 340 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
RC_ADMGP    relid = 2519  DBSTATIC   DBACC_HASH  DBPRAM    LR      NULL
     adm_grp     DMUNS5       (ushort: 5)     <--- key
     num_mbr     DMUNS11      (ushort: 11)
     gsm         DMMODULE     (ushort: 8)     <--- key
 (a) grp_type    DMSIG_TYPE   (enum: 2)
 (b) sccp_type   DMSCCP_TYP   (enum: 2)
         User, Compacted and Stored Tuple Layout   RC_ADMGP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |         |                     |               |   |   |       |
  0 | adm_grp |       num_mbr       |      gsm      | a | b |*******|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLrc_admgp

**Relation Description**
Recent Change Administration Groups.

This relation is used by Recent Change to perform validity checking on the other 3 conversion relations.

**Attribute: gsm**

**Fullname:** Global SM Number

**Attribute Description** This attribute specifies either a standardization sector (SS7) or CCSNA7 SCCP Global SM number.

**Attribute: adm_grp**

**Fullname:** SCCP Conversion Administration Group

**Attribute Description** This attribute represents a group of Destination Point Codes which will be converted in the same manner.

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**Attribute: num_mbr**

**Fullname:** Number of Members of an Administration Group

**Attribute Description** This attribute specifies a count of the number of members for this administration group.

**Attribute: grp_type**

**Fullname:** Administration Group Signaling Type

**Attribute Description** This attribute specifies the signaling type of all the point codes that are members of this administration group.

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# RC_ALPHO

## 1. Description

ISDN relation that stores the LPT_OTHER logical port holes.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 40000 |
| expected number of tuples | 570 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| density | 37 |

## 3. Field Layout

```
RC_ALPHO    relid = 1136  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     alport      DMLPORT      (ushort: 16)  <--- key
     succ        DMLPORT      (ushort: 16)
     module      DMMODULE     (ushort: 8)  <--- key
         User, Compacted and Stored Tuple Layout   RC_ALPHO
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |             alport             |              succ             |
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  4 |     module    |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLrc_alpho

**Relation Description**
Recent Change Analog Lport Holes.

ISDN relation that stores the logical port holes for LPT_TYPE=LPT_OTHER. The LPT_ISDN holes are kept in RLrc_lphol. Two separate relations are used to lessen RC concurrency problems.

Recent Change administers four separate LPT_OTHER lport link list for each SM. Reference population rules for RLrc_qidx for a strategic overview of how four linked list are maintained. RC adds a member to a link list when it is no longer needed. When an lport is required to be assigned to an analog line port or BRCS trunk on a SM, RC uses the members from the link list. If the link list is empty then the next index is taken from RLrc_qidx.

NOTE - only member tuples are kept in this relation. The starting point for a link list is located in the RLrc_qidx relation (RLrc_qidx.succ attribute)

For new offices, ODA will sequentially assign LPT_OTHER lports starting with 1 for each SM and populate RLrc_qidx with the next lport to use for each SM.

Empty queue: Read module x, qtyp=LPT_OTHER, and qid=y in RLrc_qidx. If RLrc_qidx.succ is zero, then queue y is empty.

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Members on list: Read module x, qtyp=LPORT, and qid y in RLrc_qidx. The RLrc_qidx.succ attribute points to the first member on the link list in RLrc_alpho. Read tuple in RLrc_alpho with mod=x and lport=RCrc_qidx.succ to obtain the first member. The first member has succ = 0 if it is the only member, otherwise it points to the next member in the link list. A succ attribute of 0 indicates the end of the link list. The attribute index in the relation RLrc_qidx defines the next available lport index value if all four queues are empty.

For existing offices, ODA will preserve all logical port assignments and holes across all offline ODA processes.

**Attribute: module**

**Fullname:** Switching Module

**Attribute Description** Module for which this lport hole list is being kept. Each module has a separate lport hole list

**Attribute: alport**

**Fullname:** analog logical port

**Attribute Description** Sequentially assigned number used to cause a dense packing of port keyed ISDN BRC relations. Key value is the head cell of the link list for each SM.

**Attribute: succ**

**Fullname:** Successor lport

**Attribute Description** Key pointer to next member of the link list or 0 to indicate no or last member on the list

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# RC_ATHCT

## 1. Description

Count of authorization codes. This is only used for RC/V.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 2048 |
| data page size | 256 |
| page level | 2 |
| ks key store | DBNO |

## 3. Field Layout

```
RC_ATHCT    relid = 300   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     athgpid     DMFACID      (ushort)  <--- key, not stored
     athdef      DMFACUSCNT   (ulong)
         User and Compacted Tuple Layout   RC_ATHCT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             athgpid           |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             athdef                            |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     athdef      DMFACUSCNT   (ulong)
           Stored Tuple Layout     RC_ATHCT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                             athdef                            |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLrc_athct

**Relation Description**
Authorization code count.

rc_athct Count of authorization codes for rc only.

This relation contains the count of the number of authorization codes defined for each authorization code group defined in the office. This relation is used by recent change only. Tuple 0 is the global office count and is the sum of the counts for the other tuples. It does not correspond to a real auth code group.

This relation keeps track of the number of authorization codes defined for a particular authorization code group.

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The relation is keyed by the group id. The tuple for group ID 0 never represents a real authorization code group, so this tuple is used to save the office-wide authorization code count (that is, the sum of the counts for the individual groups).

The sum of rc_athct for all athgpid's cannot exceed the maximum stored in Glathct. In general, this maximum is 100,000. For a few offices (FTS2000), the maximum is allowed to go 250,000. In any case, check the maximum against the global parameter.

**Attribute: athgpid**

**Fullname:** authorization code group identifier

**Attribute Description** If athgpid is 0, the tuple contains a count with the total number of authorization codes defined in the office. If athgpid is greater than 0, it represents a real authorization code group. The group should have a tuple in RLfacname and RLfid2name to translate the group ID back to the group name used on the ODA and RC screens.

**Attribute: athdef**

**Fullname:** authorization codes defined

**Attribute Description** Number of authorization codes defined for this group. The office total is defined in Glathct and can be up to 250,000.

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# RC_CDRMK

## 1. Description

Remarks for RC carrier ID.

This is a virtual update relation. The root storage relation is RLcdrmk_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation RC_CDRMK

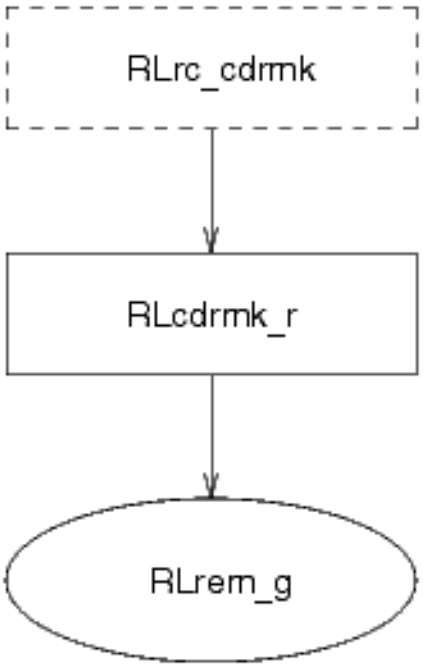


**Figure 1 Virtual Relation RC_CDRMK**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
RC_CDRMK    relid = 473   DBSTATIC   DBACC_OPV   DBNOTODD  LP      RCDATA
     carrid      DMCIC4       (array [ 4 ] of char )  <--- key
     rmk         DMTEXT       (array [ 16 ] of char )
     dest_x      DMDESTIDX    (ushort: 12)  <--- key
 (a) featgrp     DMFEATGRP    (enum: 2)  <--- key
        User, Compacted and Stored Tuple Layout   RC_CDRMK
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |                                                            |
  0 |                           carrid                           |
    |--------------+--------------+--------------+--------------|
```

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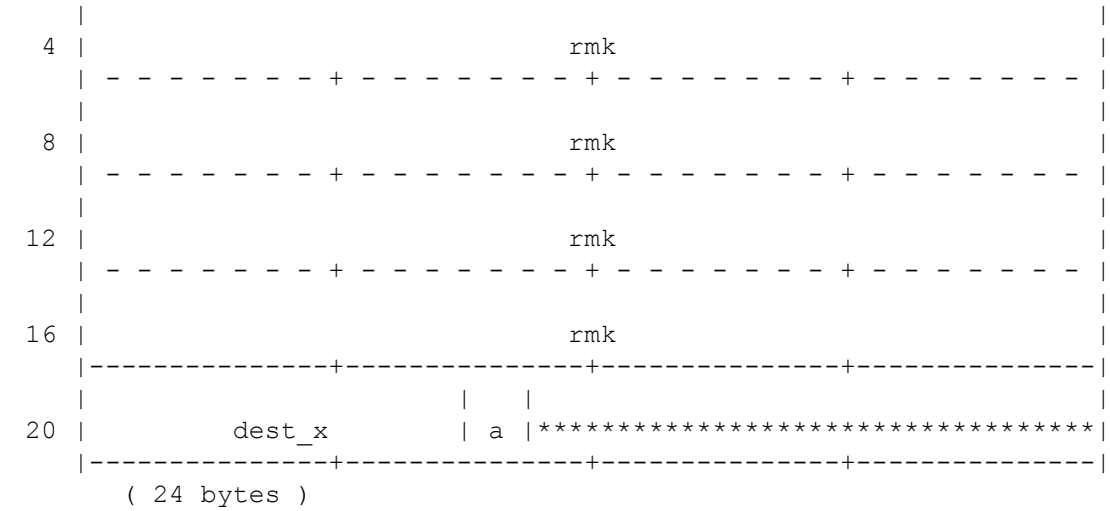


## 4. Population Rules for RLrc_cdrmk

**Relation Description**
Recent change (RC) carrier destination remarks.

RC relation to store switch personnel remarks for all destination indices used for feature group B and feature group D carriers.

**Attribute: dest_x**

**Fullname:** Destination index.

**Attribute Description** Consists of the 0ZZ/1NX destination indices. These indices are the destination indices assigned in RLdaprmfnl, RLda_conflict, and RLdaprlfnl when the attribute type_ci_call, assumes the values FCAVT or FCINC. The destination index can not be zero.

**Attribute: carrid**

**Fullname:** Feature Group Carrier identifier.

**Attribute Description** The carrier identifier can be a four-digit character string. Each character can assume the values '0' through '9'.

**Attribute: featgrp**

**Fullname:** Feature Group Carrier Type

**Attribute Description** Identifies carrier identifier as feature group B (FGB) or feature group D (FGD). Set the attribute to either FGB_CARR or FGD_CARR.

**Attribute: rmk**

**Fullname:** Remarks.

**Attribute Description** Remarks field, used by the switch personnel. It is originally populated with a null string - where NULL is defined by \0.

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# RC_CFGBM

## 1. Description

For each configuration group and its component, this relation provides the bitmap of the component buttons. Every bit in the bitmap maps into a unique button on the component. If the button is assigned a BRCS feature, then the bit is set to 1; otherwise, the bit is set to 0.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| access type | DBACC_CIND |
| memory type | DBDISK |
| distribution | DO |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 2048 |
| data page size | 2048 |
| page level | 2 |
| corcable relation | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
RC_CFGBM    relid = 882   DBSTATIC   DBACC_CIND  DBDISK    DO      DDBM
 (a) cpe_comp    DMCPECOMP    (uchar: 3) <--- key
     config      DMCONFIG     (ulong: 12) <--- key
 (b) std_dsl     DMBOOL       (enum: 1)
     fword0      DMCFGBM      (ulong)
     fword1      DMCFGBM      (ulong)
     fword2      DMCFGBM      (ulong)
     fword3      DMCFGBM      (ulong)
     fword4      DMCFGBM      (ulong)
     fword5      DMCFGBM      (ulong)
     fword6      DMCFGBM      (ulong)
     fword7      DMCFGBM      (ulong)
         User, Compacted and Stored Tuple Layout   RC_CFGBM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |     |                         | |                               |
  0 |  a  |          config         |b|*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  4 |                             fword0                              |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  8 |                             fword1                              |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 12 |                             fword2                              |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 16 |                             fword3                              |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 20 |                             fword4                              |
```

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```
    |--------------+--------------+--------------+--------------|
    |                                                           |
 24 |                            fword5                         |
    |--------------+--------------+--------------+--------------|
    |                                                           |
 28 |                            fword6                         |
    |--------------+--------------+--------------+--------------|
    |                                                           |
 32 |                            fword7                         |
    |--------------+--------------+--------------+--------------|
       ( 36 bytes )
domain alRC_CFGBM struct  (4 sub-attributes)
 (a)     cpe_comp    .2.fake      (uchar: 3)
         config      .3.fake      (ulong: 12)
 (b)     std_dsl     .0fake       (enum)
         fword       .4.fake      (array [ 8 ] of unsigned long )
                    Structure Layout    alRC_CFGBM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |     |                      | |                           |
  0 |  a  |         config       |b|*****************************|
    |--------------+--------------+--------------+--------------|
    |                                                           |
  4 |                            fword                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                           |
  8 |                            fword                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                           |
 12 |                            fword                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                           |
 16 |                            fword                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                           |
 20 |                            fword                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                           |
 24 |                            fword                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                           |
 28 |                            fword                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                           |
 32 |                            fword                          |
    |--------------+--------------+--------------+--------------|
       ( 36 bytes )
```

## 4. Population rules for RLrc_cfgbm

**Relation Description**

Bit map to keep track of button features in configuration group
There is a tuple in this relation for each configuration group and

its component. A tuple is composed of a key (configuration group and component) and 8 bitmap fields.

A terminal component may have up to 254 buttons. The buttons are grouped into 6 ranges of 32 ( 32 to 63, 64 to 95 , ... , 192 to 223 ) and two incomplete ranges ( 1 to 31 and 224 to 254 ).
These 8 ranges are represented by 8 bitmap fields fword# (here, # varies from 0 to 7),
so that a bit within a bitmap field has a corresponding unique button on the terminal component. If the button is assigned a BRCS feature, then the bit is set to 1. Otherwise, it is set to 0.
If the bit is set to 1, then there must exist a tuple in RLbnfeat keyed by the RLrc_cfgbm.cpe_comp, RLrc_cfgbm.config, and the button number. Otherwise, if it is set to 0, such a tuple should not exist in RLbnfeat. The bitmap fields fword0 and fword7 represent 31 buttons each. The field fword0 has its low order bit (rightmost bit) always set to 0, since the button number 0 does not exist. The field7 has its high order bit always set to 0, since a terminal component may have 254 buttons at the most.

The rest of the bitmap fields (fword1, fword2, fword3, fword4, fword5, and fword6) represent 32 buttons each.

**Attribute:**
cpe_comp
**Fullname:**
Customer premises equipment component
**Attribute Description:**
Customer Premises Equipment component is derived from the Q.931 ISDN message. There it is referred to as module. There may be up to 8 components per DSL (Digital Subscriber Line). Each of them has 254 buttons.

**Attribute:**
config
**Fullname:**
ISDN configuration identifier
**Attribute Description:**
If a configuration identifier exists in RLrc_cfgbm, then it must exist in RLfid2name and RLfacname. The inverse is also true.
If a configuration identifier exists either in RLis_term or RLbnfeat, then it must exist in RLrc_cfgbm. Inverse is not necessarily true since a configuration group must first be defined in RLrc_cfgbm before it may be inserted into either RLis_term or RLbnfeat.

**Attribute:**

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std_dsl

**Fullname:**

Standard DSL Configuration Group Indicator

**Attribute Description:**

This field indicates whether this configuration group
is populated for the standard DSL (which adhere to the
Bellcore ISDN protocol standards.
DBYES - This configuration is only allowed to be assigned
to the Bellcore standard DSL.
DBNO - This configuration is only allowed to be assigned
to the Custom Lucent Technologies(TM) DSL.

**Attribute:**

fword0

**Fullname:**

First fullword bitmap field

**Attribute Description:**

Field of type long unsigned. The bits represent
the CPE component buttons 1 thru 31.
The low order bit is always set to 0.

**Attribute:**

fword1

**Fullname:**

Second fullword bitmap field

**Attribute Description:**

Field of type long unsigned. The bits represent
the CPE component buttons 32 thru 63.

**Attribute:**

fword2

**Fullname:**

Third fullword bitmap field

**Attribute Description:**

Field of type long unsigned. The bits represent
the CPE component buttons 64 thru 95.

**Attribute:**

fword3

**Fullname:**

Fourth fullword bitmap field

**Attribute Description:**

Field of type long unsigned. The bits represent
the CPE component buttons 96 thru 127.

**Attribute:**

fword4

**Fullname:**

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Fifth fullword bitmap field

**Attribute Description:**

Field of type long unsigned. The bits represent the CPE component buttons 128 thru 159.

**Attribute:**

fword5

**Fullname:**

Sixth fullword bitmap field

**Attribute Description:**

Field of type long unsigned. The bits represent the CPE component buttons 160 thru 191.

**Attribute:**

fword6

**Fullname:**

Seventh fullword bitmap field

**Attribute Description:**

Field of type long unsigned. The bits represent the CPE component buttons 192 thru 223.

**Attribute:**

fword7

**Fullname:**

Eighth fullword bitmap field

**Attribute Description:**

Field of type long unsigned. The bits represent the CPE component buttons 224 thru 254. The high order bit is always set to 0.

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# RC_CGIDX

## 1. Description

Remarks associated with charge index.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
RC_CGIDX    relid = 191   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     charge_x    DMCHGIDX     (ushort: 11)  <--- key
     rem         DMTEXT       (array [ 16 ] of char )
         User, Compacted and Stored Tuple Layout   RC_CGIDX
     |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
     |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
     |---------------+---------------+---------------+---------------|
     |                       |         |                               |
   0 |       charge_x        |*********|              rem              |
     | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
     |                                                               |
   4 |                               rem                             |
     | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
     |                                                               |
   8 |                               rem                             |
     | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
     |                                                               |
  12 |                               rem                             |
     | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
     |                               |                               |
  16 |              rem              |*******************************|
     |---------------+---------------+---------------+---------------|
        ( 20 bytes )
```

## 4. Population Rules for RLrc_cgidx

**Relation Description**
Charge index remarks.

This relation associates a remark, which contains up to 16 characters, with a charge index.
There is a tuple in this relation for every charge index in RLchrgidxexp (that is, RLchrgidxexp.charge_x ).

**Attribute: charge_x**

**Fullname:** Charge Index

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**Attribute Description** This is the charge index to which the remark (that is, RLrc_cgidx.rem ) relates.

**Attribute: rem**

**Fullname:** Remark

**Attribute Description** The remark for the charge index is stored as an array of up to 16 ASCII characters. If no remark was specified for the charge index then the array is set to NULL ('\0').

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# RC_CHGRP

## 1. Description

This relation defines remarks data for channel groups.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 7680 |
| expected tuples in relation | 200 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application type | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
RC_CHGRP    relid = 2804  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     sm          DMMODULE     (ushort: 8)     <--- key, not stored
     dsl_group   DMPHNBR      (uchar: 7)     <--- key, not stored
     remark      DMCHR8       (array [ 8 ] of char )
         User and Compacted Tuple Layout   RC_CHGRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |       sm      |  dsl_group    |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                               remark                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                               remark                          |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
     remark      DMCHR8       (array [ 8 ] of char )
           Stored Tuple Layout     RC_CHGRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                               remark                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                               remark                          |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLrc_chgrp

**Relation Description**
This relation is used to store remark data for channel groups.

This relation is used to store remark data for channel groups. The relation is only used to display information on the

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RC/ODA view for channel group assignment. The remark information can be entered for channel groups that do not have a hardware type defined.

**Attribute: sm**

**Fullname:** switching module

**Attribute Description** Switching module where the channel group (dsl_group) is located.

**Attribute: dsl_group**

**Fullname:** DSL group number.

**Attribute Description** DSL group number to which packet switching applications can be assigned. This field represents the logical channel group on the sm (such as, (shelf * 16) + channel_group).

**Attribute: remark**

**Fullname:** Remark information for channel group.

**Attribute Description** The remarks field is an informational field that can be used for whatever purpose is needed to describe the channel group.

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# RC_CIRMK

## 1. Description

Store remarks for RC_ICF and VER_ICF.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3000 |
| expected number of tuples | 500 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LRFR |
| application | NULL |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 1024 |
| trigger function | MScitrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
RC_CIRMK    relid = 64    DBSTATIC   DBACC_HASH  DBPRAM    LRFR    NULL
     carrid       DMCIC4        (array [ 4 ] of char )  <--- key
 (a) featgrp      DMFEATGRP     (enum: 2)  <--- key
 (b) measure      DMBOOL        (enum: 1)
     rmk          DMTEXT        (array [ 16 ] of char )
         User, Compacted and Stored Tuple Layout   RC_CIRMK
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                             carrid                            |
    |---------------+---------------+---------------+---------------|
    |   | |         |                                               |
  4 | a |b|*********|                      rmk                      |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                              rmk                              |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                              rmk                              |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                              rmk                              |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |               |                                               |
 20 |      rmk      |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population Rules for RLrc_cirmk

### Relation Description

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Store remarks for RLfc_carr and RLfc_fgbcarr.

Stores remarks for feature group B (FGB) and feature group D (FGD) carriers. Provides a measurement collection option.

**Attribute: carrid**

**Fullname:** Feature Group Carrier id

**Attribute Description** Indicates the carrier identifier. It must be entered as a 4 digit character string where each of the digits can be '0' through '9'. The carr_id value must be an existing one in the RLfc_carr or RLfc_fgbcarr relation.

**Attribute: featgrp**

**Fullname:** Feature Group Carrier Type

**Attribute Description** Identifies carrier ID as either feature group B (FGB) or feature group D (FGD). Set the attribute to FGB_CARR for FGB and FGD_CARR for FGD.

**Attribute: measure**

**Fullname:** Carrier Measurement collection option.

**Attribute Description** Attribute indicates whether measurements should be done for the carrier. It should be noted that all measurements will be done for a carrier, and only 500 can be measured at a time regardless if a carrier is FGB or FGD.

Note: RC/V and ODA will enforce measurable carriers to be at limit of Gl_mx_carr, which is defined as a constant value of 500. See Gl_cars.p poprules.

**Attribute: rmk**

**Fullname:** Remarks field

**Attribute Description** used by the switch personnel. It is originally populated with a Null string where Null is defined as '\0'.

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# RC_CLEI

## 1. Description

Locations bay vertical position EQLS of IM equipment units.

This is a virtual update relation. The root storage relation is RLclei_r.G The tree diagram Figure 1 depicts the stored structure of virtual relation RC_CLEI.

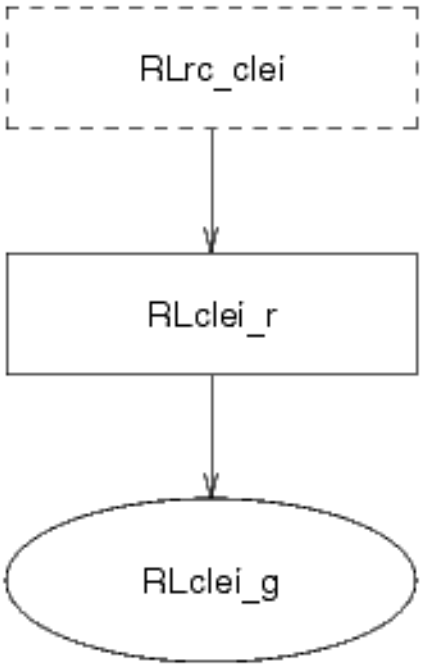


**Figure 1 Virtual Relation RC_CLEI**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
RC_CLEI     relid = 1331  DBSTATIC   DBACC_OPV   DBNOTODD  LP      RCDATA
     cleipk0     DMTEXT10     (array [ 10 ] of char )
     cleipk1     DMTEXT10     (array [ 10 ] of char )
     cleipk2     DMTEXT10     (array [ 10 ] of char )
     cleipk3     DMTEXT10     (array [ 10 ] of char )
     cleipk4     DMTEXT10     (array [ 10 ] of char )
     cleipk5     DMTEXT10     (array [ 10 ] of char )
     cleipk6     DMTEXT10     (array [ 10 ] of char )
     cleipk7     DMTEXT10     (array [ 10 ] of char )
     cleipk8     DMTEXT10     (array [ 10 ] of char )
     cleipk9     DMTEXT10     (array [ 10 ] of char )
     cleipk10    DMTEXT10     (array [ 10 ] of char )
```

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```
    cleipk11    DMTEXT10     (array [ 10 ] of char )
    cleipk12    DMTEXT10     (array [ 10 ] of char )
    cleipk13    DMTEXT10     (array [ 10 ] of char )
    cleipk14    DMTEXT10     (array [ 10 ] of char )
    cleipk15    DMTEXT10     (array [ 10 ] of char )
    im          DMMODULE     (ushort: 8)  <--- key
    unittype    DMUNITTYPE   (enum: 7)  <--- key
    unit_no     DMUNITNO     (ushort: 7)  <--- key
(a) service_group  DMUNS5       (ushort: 5)  <--- key
        User, Compacted and Stored Tuple Layout    RC_CLEI
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                             cleipk0                           |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                               |
 4 |                             cleipk0                           |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                 |                             |
 8 |             cleipk0             |             cleipk1         |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                               |
12 |                             cleipk1                           |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                               |
16 |                             cleipk1                           |
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |                             cleipk2                           |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                               |
24 |                             cleipk2                           |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                 |                             |
28 |             cleipk2             |             cleipk3         |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                               |
32 |                             cleipk3                           |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                               |
36 |                             cleipk3                           |
   |---------------+---------------+---------------+---------------|
   |                                                               |
40 |                             cleipk4                           |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                               |
44 |                             cleipk4                           |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                 |                             |
48 |             cleipk4             |             cleipk5         |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                               |
52 |                             cleipk5                           |
```

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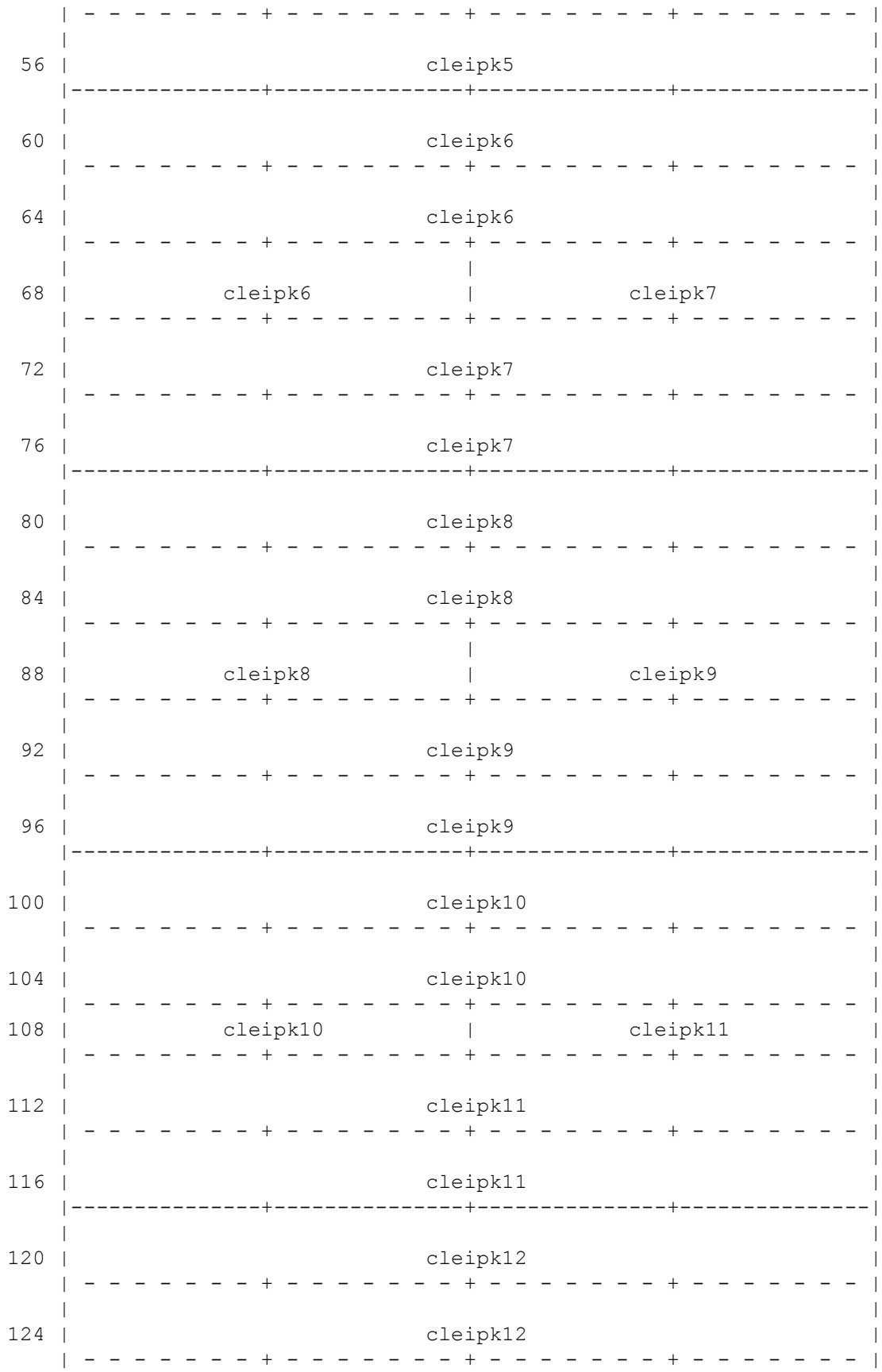


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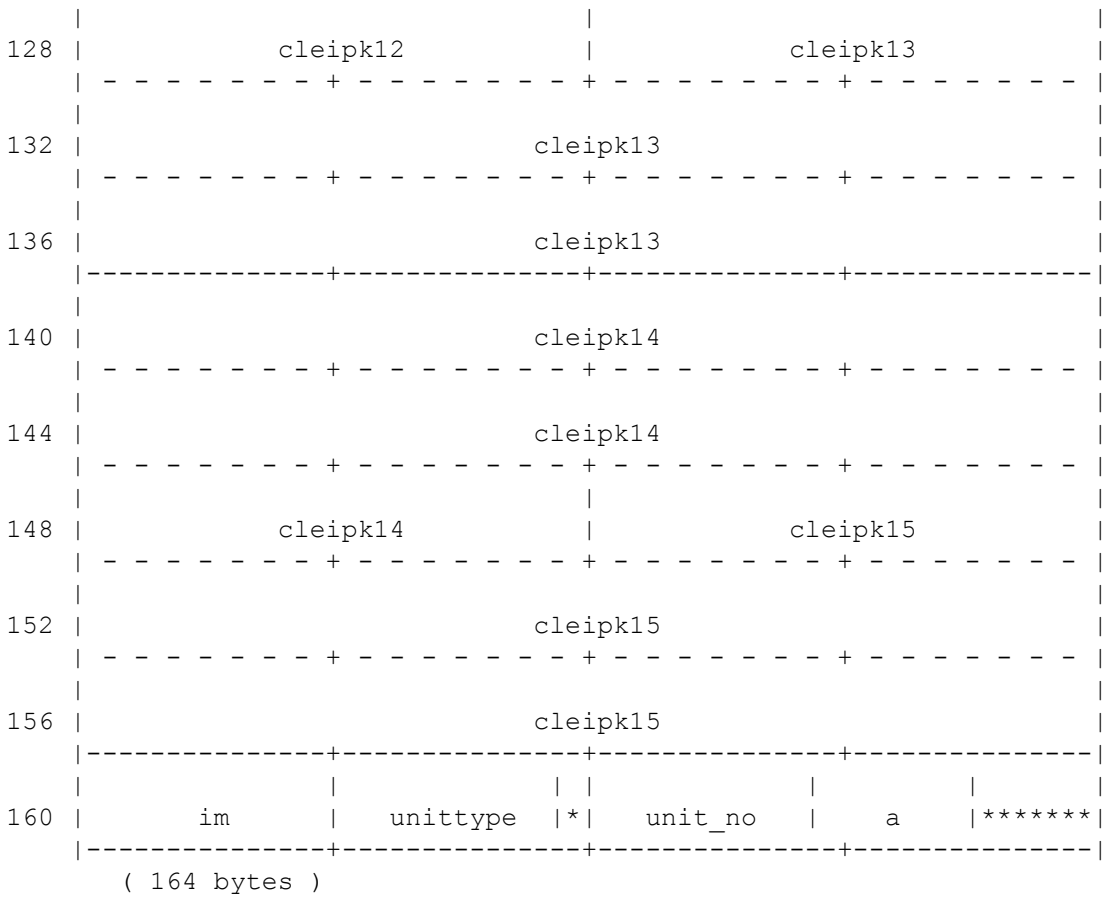


## 4. Population Rules for RLrc_clei

**Relation Description**
Recent change (RC) CLEI code.

This relation provides the CLEI code values for all trunk type units. It is treated as a remarks relation from the switch viewpoint and serves only to retain the CLEI code values for printing on the office records.

This is a new relation for the CMP in generic 5E6. The CLEI code attributes were removed from the RC_EQLOC relation to save memory because they are only needed for trunk units, not for all units.

**Attribute: im**

**Fullname:** Switching Module number

**Attribute Description** key.

**Attribute: unittype**

**Fullname:** unit type

**Attribute Description** key.

**Attribute: unit_no**

**Fullname:** unit number

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**Attribute Description** key.

**Attribute: service_group**

**Fullname:** service group

**Attribute Description** key.

**Attribute: cleipk[*]**

**Fullname:** CLEI PacK 0

**Attribute Description** Prints on the appropriate office records for trunk equipment.

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# RC_CNINF

## 1. Description

Administrative information for protocol handler channels.

This is a virtual update relation. The root storage relation is RLcninf_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation RC_CNINF.

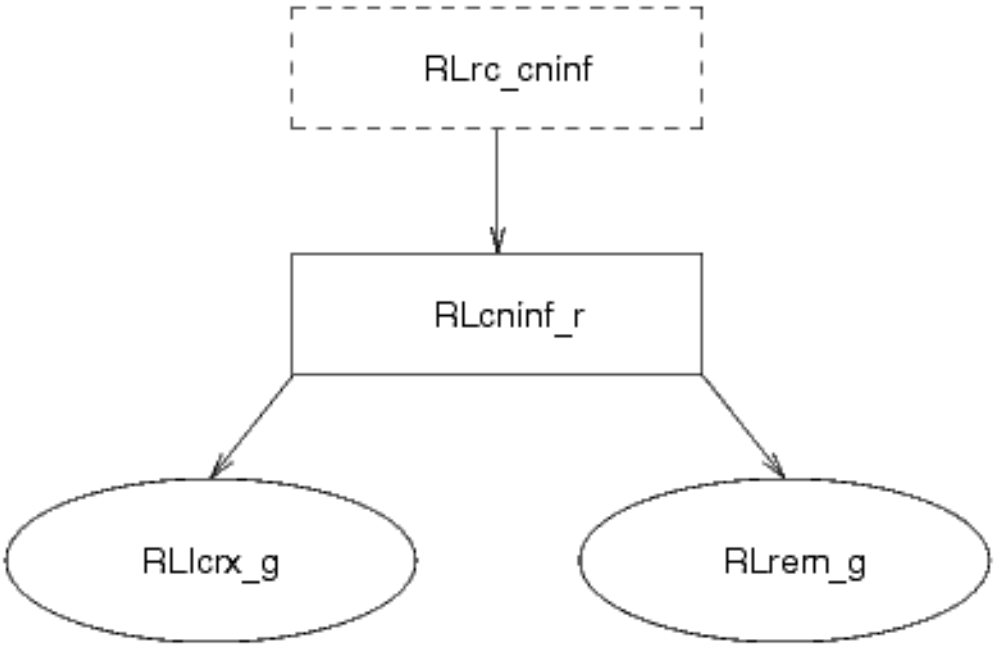


**Figure 1 Virtual Relation RC_CNINF**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
RC_CNINF    relid = 832   DBSTATIC   DBACC_OPV   DBNOTODD  LP      RCDATA
     lcc          DMLCC         (array [ 3 ] of char )
     rem          DMTEXT        (array [ 16 ] of char )
     rax          DMINDEX       (ushort)  <--- compacted
     module       DMMODULE      (ushort: 8)  <--- key
     ph_number    DMPHNBR       (uchar: 7)  <--- key
     ph_cn        DMPHCN        (uchar: 7)  <--- key
     party        DMPARTY       (ushort: 4)  <--- key
            User Tuple Layout      RC_CNINF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
```

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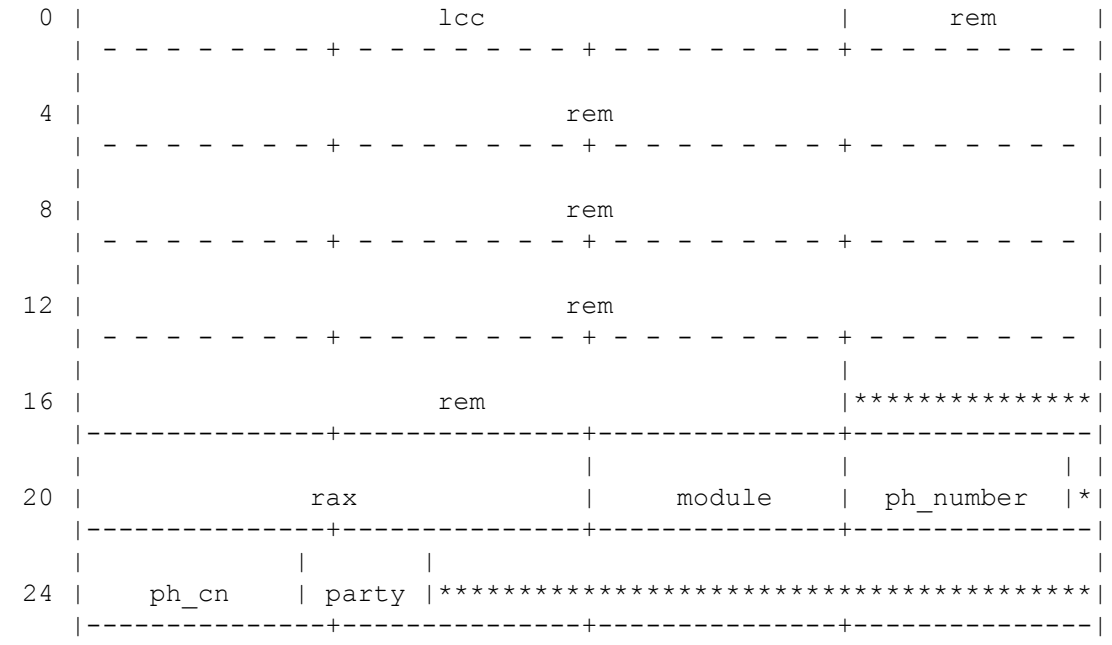
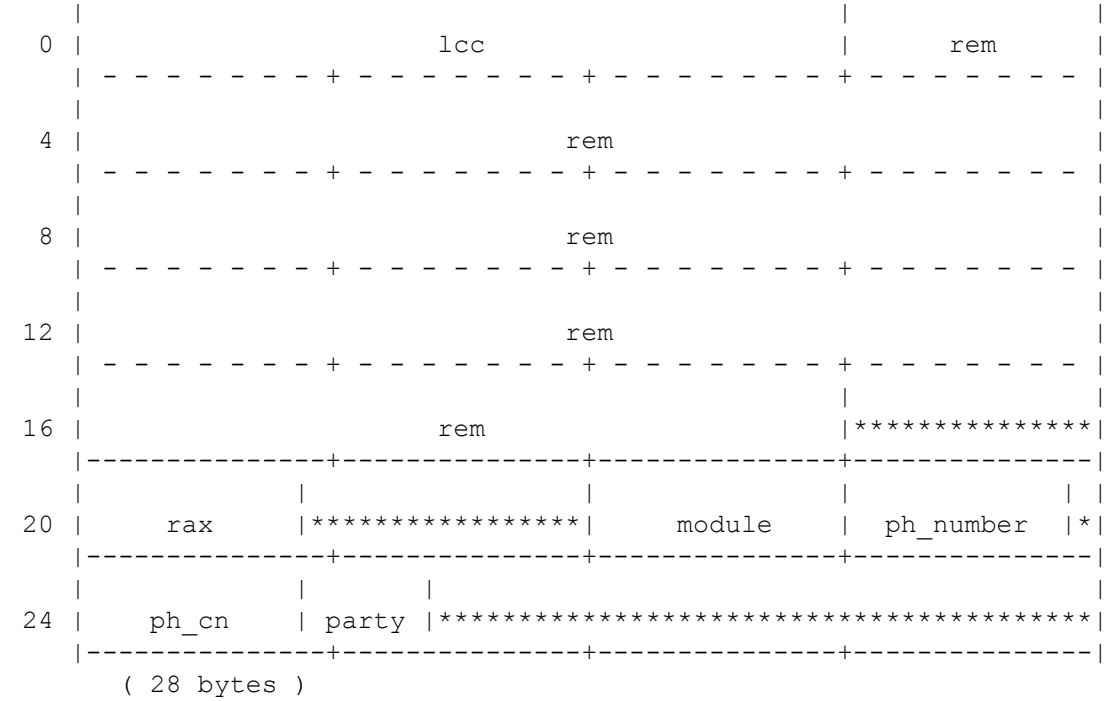



( 28 bytes )

```
lcc          DMLCC        (array [ 3 ] of char )
rem          DMTEXT       (array [ 16 ] of char )
rax          DMRAX        (ushort: 7)  <--- compacted
module       DMMODULE     (ushort: 8)  <--- key
ph_number    DMPHNBR      (uchar: 7)  <--- key
ph_cn        DMPHCN       (uchar: 7)  <--- key
party        DMPARTY      (ushort: 4)  <--- key
```

Compacted and Stored Tuple Layout RC_CNINF

```
|3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```




( 28 bytes )

## 4. Population Rules for RLrc_cninf

**Relation Description**
Whenever there is a tuple in RLpsx25ln relation,
```
there must be a tuple in RLrc_cninf relation such that
rlRC_CNINF.ph_number = rlPSX25LN.ph_number, and
rlRC_CNINF.ph_cn = rlPSX25LN.ph_cn ,        and
rlRC_CNINF.party = rlPSX25LN.party.
For a given lcc and rax,
there must be a tuple in rc_lcc relation such that
rlRC_CNINF.lcc = rlRC_LCC.lcc, and
rlRC_CNINF.rax = rlRC_LCC.rax.
```
This is a Recent Change only relation.

**Attribute: module**

**Fullname:** module

**Attribute Description** The module where a tuple of the PSX25LN relation resides such that rlRC_CNINF.ph_number = rlPSX25LN.ph_number, and rlRC_CNINF.ph_cn = rlPSX25LN.ph_cn.

**Attribute: ph_number**

**Fullname:** Protocol Handler number

**Attribute Description** Protocol handler (PH) number: 0 - 95.

**Attribute: ph_cn**

**Fullname:** Protocol Handler channel number

**Attribute Description** PH channel number: 0 - 127.

**Attribute: party**

**Fullname:** party

**Attribute Description**
```
party (KEY) - Specific packet user within an ISDN DSL
              D-channel.
'ISDN DSL D-channel packet user' is defined by:
FC_PORTTYP.servclass = FC_ISDN    and
DSLEQUIP.dserv       = PSSX/PSXMP and
SPID.ppd_lport       > 0
```
Permanent packet B-channels are populated with FCP_BCHAN.

**Attribute: lcc**

**Fullname:** Line class code

**Attribute Description** Line class code assigned by an office.

**Attribute: rax**

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**Fullname:** Rate center

**Attribute Description** Rate center for the packet switching assigned by the office.

**Attribute: rem**

**Fullname:** DSLs remarks

**Attribute Description** DSLs remarks if no CKT Switching on DSL.

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# RC_CON

## 1. Description

This Recent Change Digit analysis relation is for administering group partitioning of RLda_conflct.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65000 |
| expected tuples | 2200 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| index length | 9 |
| ks key store | DBNO |
| permutation type | perm |

## 3. Field Layout

```
RC_CON      relid = 1214  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     table       DMTABLE      (ulong: 20)     <--- key, not stored
     ldit        DMSHORT      (short)
         User and Compacted Tuple Layout     RC_CON
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                       |                       |
  0 |                  table                |***********************|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  4 |              ldit               |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     ldit        DMSHORT      (short)
           Stored Tuple Layout   RC_CON
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |              ldit               |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population rules for RLrc_con

**Relation Description**

RECENT CHANGE DA_CONFLCT DATA RELATION
RECENT CHANGE ONLY RELATION: RLrc_con will have to be updated with the table numbers obtained from RLda_conflct. The corresponding LDIT of which this table is a part of, or 0 if this table belongs to an RDIT, will be the entry for the attribute RLrc_con.ldit.
Manual determination of data is a tedious job and has to be done after finding which table is a part of which LDIT/RDIT tree for the existing digit analysis data. New data should be appropriately

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populated by RC-ODA.

**Attribute:**
table
**Fullname:**
TABLE
**Attribute Description:**
This attribute corresponds to the attribute RLda_conflct.table:

**Attribute:**
ldit
**Fullname:**
LDIT
**Attribute Description:**
This attribute is the LDIT number in relation RLrc_ldit or 0 if it represents an RDIT and it indicates that the table number is a part of this LDIT or is part of an RDIT when 0.:

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# RC_CTUR

## 1. Description

This relation contains the data to determine best cut-through timeslot to user ratio for selecting a PH and PH channel for the user.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 192 |
| expected tuples in relation | 5 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
RC_CTUR     relid = 2736  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCDATA
     module       DMMODULE     (ushort: 8)     <--- key
     psu          DMUNS3       (ushort: 3)     <--- key
     sh0_odbts    DMUSHORT     (ushort)
     sh1_odbts    DMUSHORT     (ushort)
     sh2_odbts    DMUSHORT     (ushort)
     sh3_odbts    DMUSHORT     (ushort)
     sh4_odbts    DMUSHORT     (ushort)
     sh0_odbusr   DMUSHORT     (ushort)
     sh1_odbusr   DMUSHORT     (ushort)
     sh2_odbusr   DMUSHORT     (ushort)
     sh3_odbusr   DMUSHORT     (ushort)
     sh4_odbusr   DMUSHORT     (ushort)
         User, Compacted and Stored Tuple Layout    RC_CTUR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |     |         |                               |
  0 |     module    | psu |*********|           sh0_odbts           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |           sh1_odbts           |           sh2_odbts           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |           sh3_odbts           |           sh4_odbts           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |           sh0_odbusr          |           sh1_odbusr          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 16 |           sh2_odbusr          |           sh3_odbusr          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 20 |           sh4_odbusr          |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

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```
domain alRC_CTUR  struct  (4 sub-attributes)
         module      .2.fake      (ushort)
         psu         .3.fake      (ushort: 3)
         sh_odbts    .4.fake      (array [ 5 ] of unsigned short )
         sh_odbusr   .5.fake      (array [ 5 ] of unsigned short )

         Structure Layout     alRC_CTUR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |     |         |                               |
  0 |     module    | psu |*********|            sh_odbts           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                             sh_odbts                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             sh_odbts                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                            sh_odbusr                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                            sh_odbusr                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 20 |           sh_odbusr           |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population Rules for RLrc_ctur

**Relation Description**
Cut-through Time slot to User ratio for ODB ISCN assignment.

This relation is used by Recent Change when selecting an ODB ISCN. RC will read the relation for the cut-through time slot to user information. After looking at all the shelves in the tuple, RC will select the shelf with the highest time slot/user ratio. This way all the users are load balanced across the shelves. After selecting the shelf, RC will use it to search RLrc_odb for a match. If none is found, RC will pick the next highest ratio shelf in RLrc_ctur and search RLrc_odb again. This will continue until a tuple is found in RLrc_odb or there are no more available shelves in RLrc_ctur.

This is a Recent Change relation. ;

end relation;

**Attribute: module**

**Fullname:** SM module number

**Attribute Description** Identifies a specific SM on which the On Demand B-channel service resides.

**Attribute: psu**

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**Fullname:** PSU number

**Attribute Description** Packet Switch Unit number. Set to 0.

**Attribute: sh0_odbts**

**Fullname:** Minimum number of time slots reserved for ODB on shelf 0.

**Attribute Description** This attribute is the reserved time slot for ODB on shelf 0 for peripherals coming from the TSIU.

**Attribute: sh0_odbusr**

**Fullname:** ODB users on shelf 0

**Attribute Description** Indicates number of users assigned to ODB on shelf 0.

**Attribute: sh1_odbts**

**Fullname:** Minimum number of time slots reserved for ODB on shelf 1.

**Attribute Description** This attribute is the reserved time slot for ODB on shelf 1 for peripherals coming from the TSIU.

**Attribute: sh1_odbusr**

**Fullname:** ODB users on shelf 1

**Attribute Description** Indicates number of users assigned to ODB on shelf 1.

**Attribute: sh2_odbts**

**Fullname:** Minimum number of time slots reserved for ODB on shelf 2.

**Attribute Description** This attribute is the reserved time slot for ODB on shelf 2 for peripherals coming from the TSIU.

**Attribute: sh2_odbusr**

**Fullname:** ODB users on shelf 2

**Attribute Description** Indicates number of users assigned to ODB on shelf 2.

**Attribute: sh3_odbts**

**Fullname:** Minimum number of time slots reserved for ODB on shelf 3.

**Attribute Description** This attribute is the reserved time slot for ODB on shelf 3 for peripherals coming from the TSIU.

**Attribute: sh3_odbusr**

**Fullname:** ODB users on shelf 3

**Attribute Description** Indicates number of users assigned to ODB on shelf 3.

**Attribute: sh4_odbts**

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**Fullname:** Minimum number of time slots reserved for ODB on shelf 4.

**Attribute Description** This attribute is the reserved time slot for ODB on shelf 4 for peripherals coming from the TSIU.

**Attribute: sh4_odbusr**

**Fullname:** ODB users on shelf 4

**Attribute Description** Indicates number of users assigned to ODB on shelf 4.

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# RC_CVRMK

## 1. Description

Remark assoc with digit analysis conversion view.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 1024 |
| page level | 0 |
| foldtype | DBDEFAULT |

## 3. Field Layout

```
RC_CVRMK    relid = 158   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     calltype    DMCTXT7      (array [ 7 ] of char )  <--- key
     digtree     DMDA_TREE    (ushort: 7)  <--- key
     rem         DMTEXT       (array [ 16 ] of char )
         User, Compacted and Stored Tuple Layout   RC_CVRMK
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                            calltype                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                   |           | |
  4 |                     calltype                      |   digtree   |*|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                              rem                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                              rem                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                              rem                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                              rem                              |
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population Rules for RLrc_cvrmk

**Relation Description**
Remarks associated with digit analysis conversion view.

This relation stores any remarks that are associated with the digit analysis conversion view.
This is yet another RC remarks relation.

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**Attribute: digtree**

**Fullname:** digit analysis tree

**Attribute Description** This attribute matches up with the t_index attribute of RLda_3digit. It is the digtree attribute of RLda_digstrt.

**Attribute: calltype**

**Fullname:** Call Type

**Attribute Description** This attribute stores the ASCII string representation of the enumeration used in the d_type attribute of RLda_3digit.

**Attribute: rem**

**Fullname:** Remarks

**Attribute Description** This attribute stores the remark data.

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# RC_DAS

## 1. Description

This relation contains the RC digit analysis tree number to digit analysis number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFR |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
RC_DAS      relid = 193   DBSTATIC   DBACC_CIND  DBPRAM    LPFR    RCMAP
     pdit        DMSHORT      (short)
     indit       DMSHORT      (short)
     ldit        DMSHORT      (short)
     digtree     DMDA_TREE    (ushort: 7)     <--- key
     rmk         DMTEXT       (array [ 16 ] of char )
         User, Compacted and Stored Tuple Layout RC_DAS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              pdit             |             indit             |
    |---------------+---------------+---------------+---------------|
    |                               |             | |               |
  4 |              ldit             |   digtree   |*|      rmk      |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                              rmk                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                              rmk                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                              rmk                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                               |               |
 20 |                      rmk                      |***************|
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population Rules for RLrc_das

**Relation Description**
Recent change (RC) digit analysis tree number to digit analysis number.

```
Add for K4.0 (k7104):
if (Gllndas != 0) then
        must find exactly 1 tuple in RLrc_das
```

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```
where (RLrc_das.digtree equals Gllndas)
```

**Attribute: digtree**

**Fullname:** Digit analysis tree

**Attribute Description** See Description for this relation.

**Attribute: pdit**

**Fullname:** Preliminary digit analysis table

**Attribute Description** See Description for this relation.

**Attribute: indit**

**Fullname:** Incoming digit table ID

**Attribute Description** See Description for this relation.

**Attribute: ldit**

**Fullname:** Local digit table ID

**Attribute Description** See description for this relation

**Attribute: rmk**

**Fullname:** Remarks

**Attribute Description** See Description for this relation.

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# RC_DFIMAP

## 1. Description

This relation maps between the DFI number and the Associate PICB.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2880 |
| expected tuples in relation | 211 |
| density | 6 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | CIO |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
RC_DFIMAP   relid = 159   DBSTATIC   DBACC_CIND  DBPRAM    LP      CIO
     im          DMMODULE     (ushort: 8) <--- key, not stored
     unitno      DMUNS4       (ushort: 4) <--- key, not stored
     dfino       DMUNS5       (ushort: 5) <--- key, not stored
     picb        DMPICB       (ushort)
         User and Compacted Tuple Layout  RC_DFIMAP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |       |       |         |                     |
  0 |       im      | unitno|*******|  dfino  |*********************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              picb             |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     picb        DMPICB       (ushort)
           Stored Tuple Layout    RC_DFIMAP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              picb             |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population rules for RLrc_dfimap

### Relation Description

```
        Digital Facilities Interface map
        Maps between DFI number and associate PICB.


Attribute:
        im
Fullname:
        module number
```

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**Attribute Description:**
IM number.

**Attribute:**
unitno
**Fullname:**
unit number
**Attribute Description:**
DLTU unit number.

**Attribute:**
dfino
**Fullname:**
DFI unit number
**Attribute Description:**
DLTU DFI unit number.

**Attribute:**
picb
**Fullname:**
picb number
**Attribute Description:**
DFI picb number plus one.

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# RC_DGT

## 1. Description

This Recent Change Digit analysis relation is for administering group partitioning of RLdaprmdgt.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20000 |
| expected tuples | 2500 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| index length | 9 |
| ks key store | DBNO |
| permutation type | perm |

## 3. Field Layout

```
RC_DGT      relid = 1216  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     table       DMTABLE      (ulong: 20)     <--- key, not stored
     ldit        DMSHORT      (short)
         User and Compacted Tuple Layout     RC_DGT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                       |                       |
  0 |                  table                |***********************|
    |---------------+---------------+---------------+---------------|
    |                                |                                |
  4 |              ldit              |********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     ldit        DMSHORT      (short)
           Stored Tuple Layout   RC_DGT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                                |
  0 |              ldit              |********************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population rules for RLrc_dgt

**Relation Description**

```
        Recent change (RC) digit data relation
        RC only relation:  RLrc_dgt will be updated with the table
        numbers obtained from RLdaprmdgt.  The corresponding local digit
        interpreter table (LDIT) from RLrc_ldit of which this table is a
        part of, or zero if belonging to a remaining digit interpreter
        table (RDIT) will be the entry for the attribute RLrc_dgt.ldit.
        For existing data, this relation is constructed by
        traversing the digit tree for each LDIT/RDIT beginning with
        the starting table number.  Each time a new table number
```

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is encountered during tree traversal, an entry is made in this relation with the LDIT number being traversed as this attribute or zero if belonging to an RDIT.

**Attribute:**
table
**Fullname:**
Table
**Attribute Description:**
This attribute corresponds to the attribute RLdaprmdgt.previous.

**Attribute:**
ldit
**Fullname:**
LDIT
**Attribute Description:**
This attribute corresponds to the attribute RLrc_ldit.ldit or is set to zero when the table belongs to an RDIT.

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# RC_DLTP

## 1. Description

This relation maps between the PICB number and the DFI number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2880 |
| expected tuples in relation | 211 |
| density | 17 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
RC_DLTP     relid = 160   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     im          DMMODULE     (ushort: 8) <--- key, not stored
     picb        DMPICB       (ushort) <--- key, not stored
     dfino       DMUNS5       (ushort: 5)
     unitno      DMUNS4       (ushort: 4)
         User and Compacted Tuple Layout    RC_DLTP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |       im      |***************|              picb             |
    |---------------+---------------+---------------+---------------|
    |         |       |                                             |
  4 |  dfino  | unitno|*********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     dfino       DMUNS5       (ushort: 5)
     unitno      DMUNS4       (ushort: 4)
           Stored Tuple Layout      RC_DLTP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |         |       |                                             |
  0 |  dfino  | unitno|*********************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population rules for RLrc_dltp

### Relation Description

```
        Recent Change PICB to DFI
        Maps between PICB number and DFI number.
```

**Attribute:**

```
        im
```

**Fullname:**

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switching module number

**Attribute Description:**

This attribute contains the SM number as part of the key for this relation.

**Attribute:**

picb

**Fullname:**

Peripheral Interface Control Bus

**Attribute Description:**

This attribute contains the PICB number which is one of the keys for this relation.

**Attribute:**

unitno

**Fullname:**

DLTU unit number

**Attribute Description:**

This attribute contains the DLTU unit number.

**Attribute:**

dfino

**Fullname:**

DFI number

**Attribute Description:**

This attribute contains the DFI board number.

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# RC_DNINFO

## 1. Description

Directory Number Administration
This is a virtual update relation. The root storage relation is RLdninf_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation RC_DNINFO.

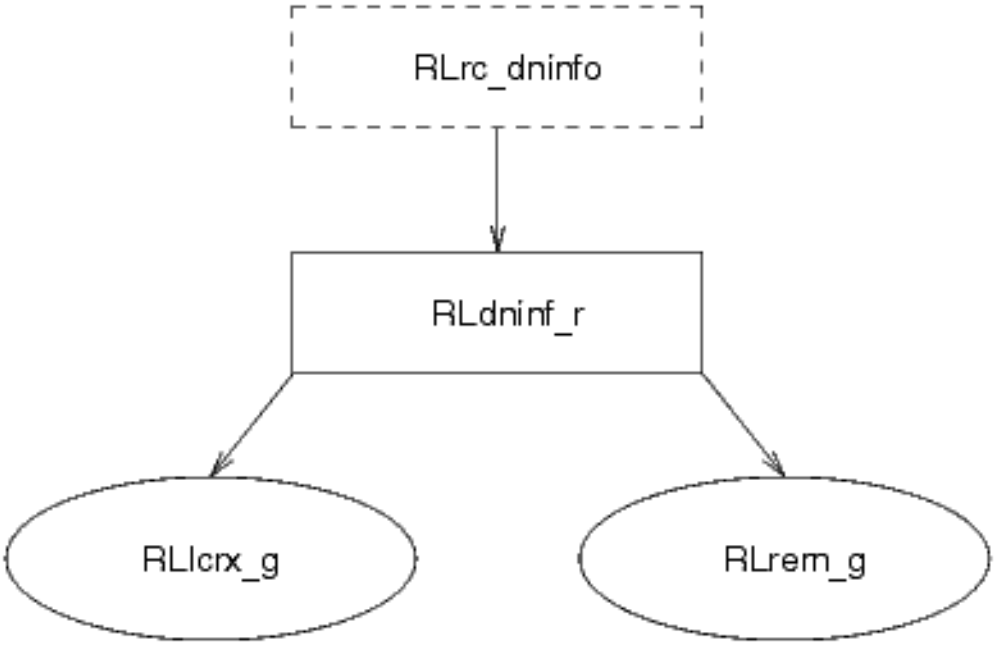


**Figure 1 Virtual Relation RC_DNINFO**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
RC_DNINFO   relid = 52    DBSTATIC   DBACC_OPV   DBNOTODD  LP      RCDATA
     att_grp     DMGRUPNM     (ushort: 13)
 (a) psflag      DMBOOL       (enum: 1)     <--- key
 (b) mbs         DMBOOL       (enum: 1)
 (c) rbv         DMBOOL       (enum: 1)
     lcc         DMLCC        (array [ 3 ] of char )
     rem         DMTEXT       (array [ 16 ] of char )
     rax         DMINDEX      (ushort)     <--- compacted
     dn          DMLOCDN      (struct)     <--- key, compacted
         noc          DMNOC        (ushort: 8)
         digits       DMLOCDIG     (array [ 4 ] of char )
            User Tuple Layout     RC_DNINFO
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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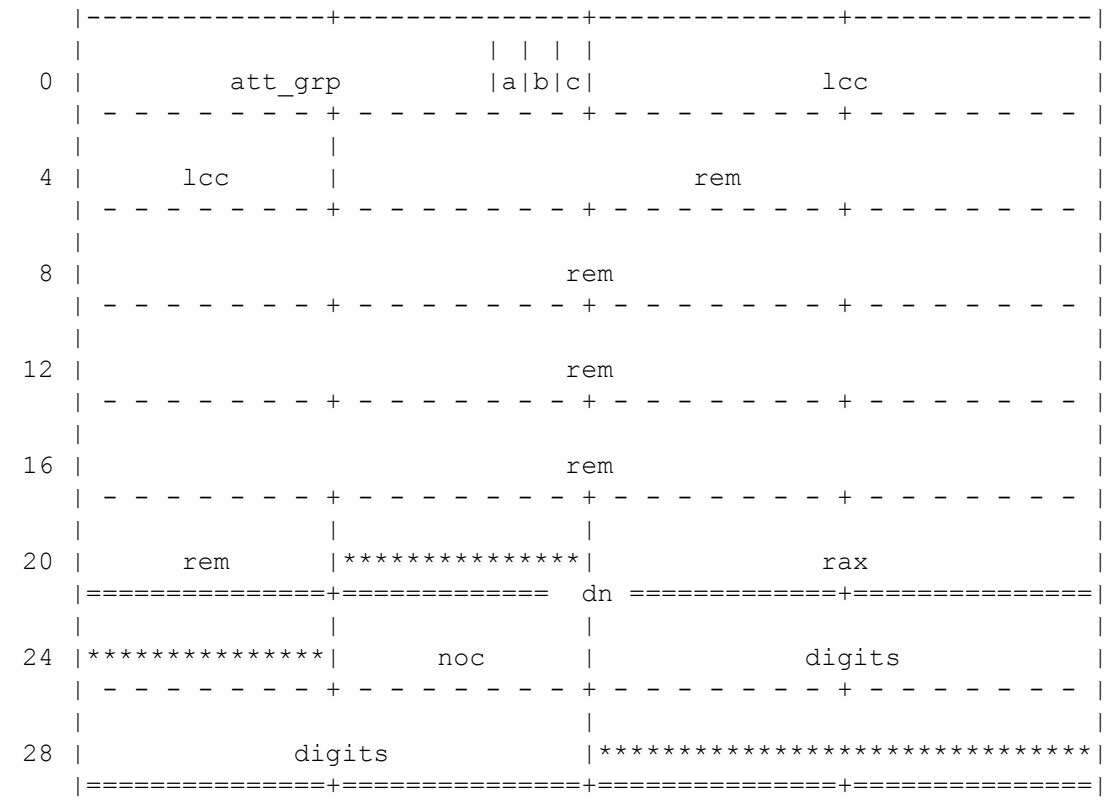
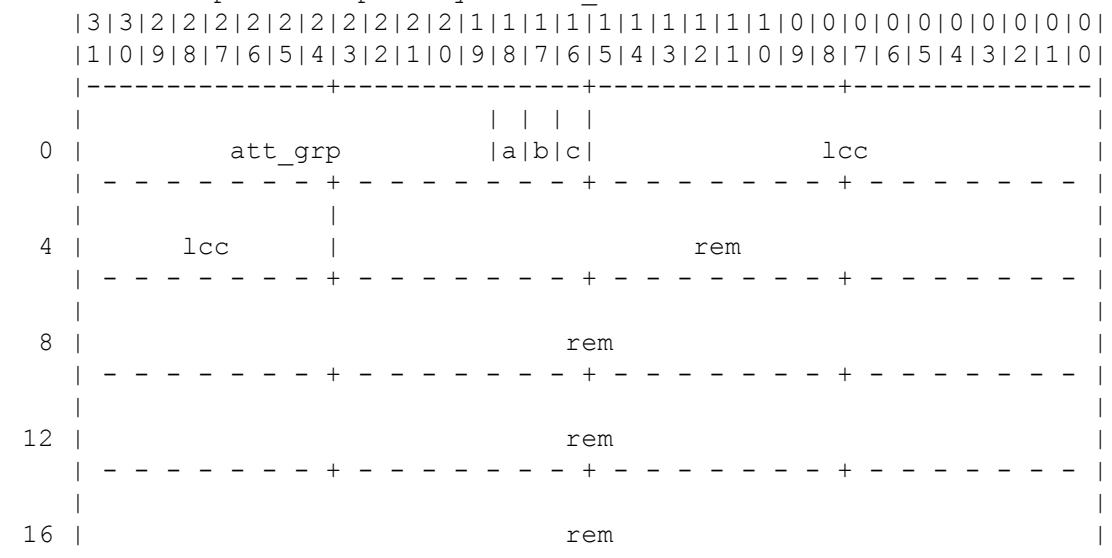
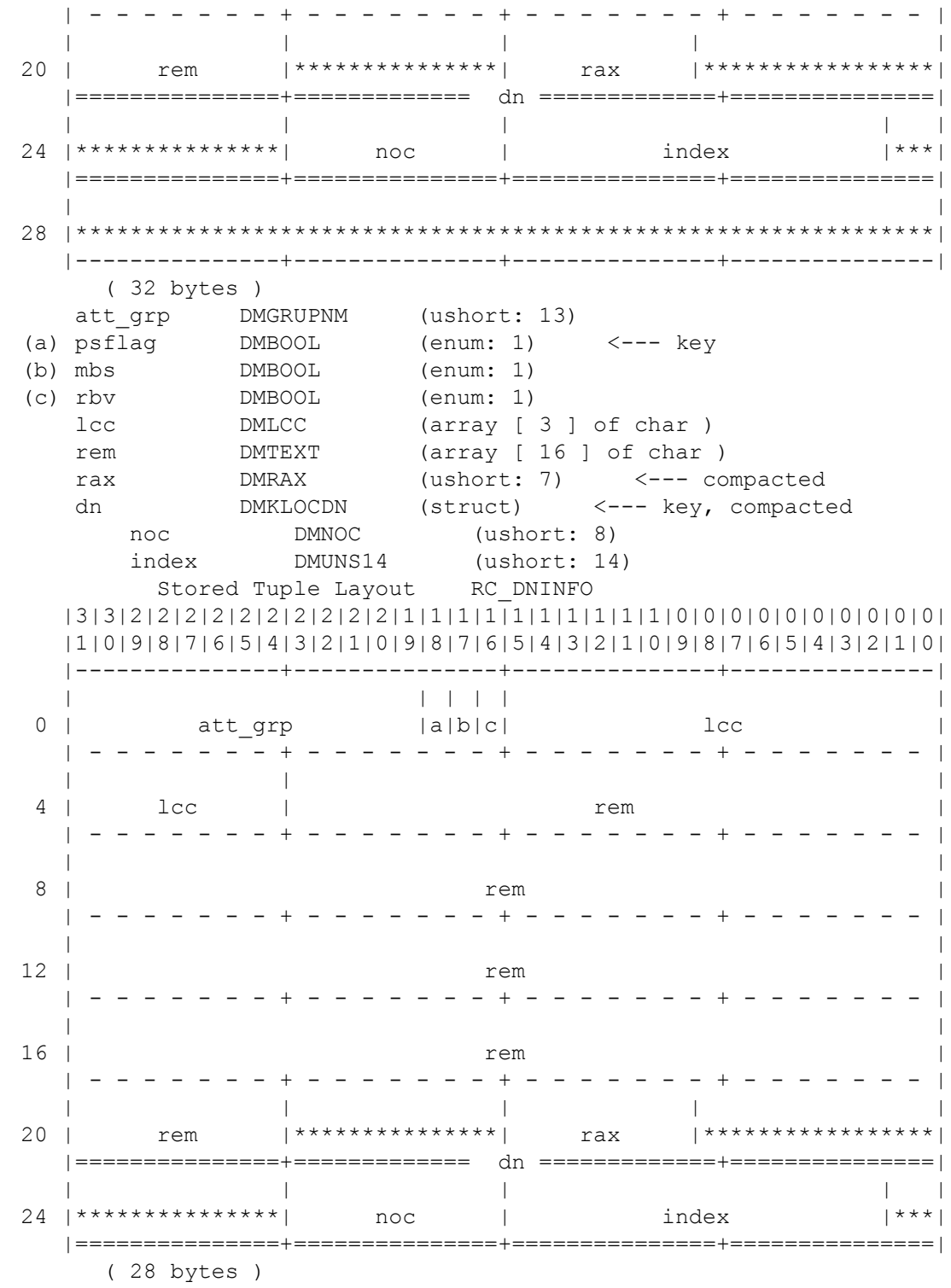



```
   ( 32 bytes )
    att_grp     DMGRUPNM     (ushort: 13)
(a) psflag      DMBOOL       (enum: 1)     <--- key
(b) mbs         DMBOOL       (enum: 1)
(c) rbv         DMBOOL       (enum: 1)
    lcc         DMLCC        (array [ 3 ] of char )
    rem         DMTEXT       (array [ 16 ] of char )
    rax         DMRAX        (ushort: 7)     <--- compacted
    dn          DMKLOCDN     (struct)     <--- key, compacted
        noc         DMNOC        (ushort: 8)
        index       DMUNS14      (ushort: 14)
```






## 4. Population Rules for RLrc_dninfo

**Relation Description**
Recent Change Directory Number Information.

This relation is used for directory number administration for DN's that do not have an origination equipment number.

This relation should be populated for the following: DNs on regular intercept without ports, test lines, lines with RI (route index) or a DN is a secondary-only DN and has either a remark (rem) or ATT MLHG (att_grp) to be saved. The att_grp attribute is being used to store the attendant multiline hunt group or the incoming ISDN Attendant (ISAT) Busy Verify Trunk (BVT) group number as of 5E7 for secondary-only Directory Numbers (DNs).

**Attribute: psflag**

**Fullname:** Packet Directory Number Flag

**Attribute Description** Packet DN indicator (DBYES/DBNO). IF RLrc_dninf.psflag equals DBNO, THEN this DN is considered a circuit DN. IF RLrc_dninf.psflag equals DBYES, THEN this DN is considered a packet DN.

**Attribute: dn**

**Fullname:** Directory number

**Attribute Description** The directory number is used to determine the routing of a subscribers called. This directory number should also be present in RLrt_dntran for analog and circuit switched calls.

**Attribute: dn.noc**

**Fullname:** Directory Number Normalized Office Code

**Attribute Description** The noc code for directory number is taken from the NOCCODE relation. It is used in combination with the digits as the internal representation of the directory number on the *5ESS*®-2000 switch.

**Attribute: dn.digits**

**Fullname:** Directory Number Digits

**Attribute Description** The digits represent the last four digits of the directory number. It is used in combination with the noc as the internal representation of the directory number on the *5ESS*®-2000 switch.

**Attribute: lcc**

**Fullname:** Line Class Code

**Attribute Description** An example of the codes in the Translation Guide. This code is usually determined by the telephone company. RE: Multiparty - the values should be 4SS, 4FS & 8SS. This information is used for populating RLrc_oeinfo.lcc and RLrc_dninfo.lcc. For packet switching, this information is used in populating RLrc_cninf.lcc.

**Attribute: rax**

**Fullname:** Rate Center

**Attribute Description** The rax is obtained from line input or from the line TN's RLnoccode entry.

**Attribute: rem**

**Fullname:** Remarks

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**Attribute Description** This field used as a character string for remarks.

**Attribute: mbs**

**Fullname:** May Be Shared

**Attribute Description** This attribute is used for sharing. The mbs attribute is set to DBYES or DBNO depending if this directory number may be used for sharing.

**Attribute: rbv**

**Fullname:** ISDN Attendant (ISAT) Remote Busy Verification (RBV) Indication Flag

**Attribute Description** The rbv flag will indicate that this secondary-only DN is remote busy verifiable. If rbv=DBYES then the value in the att_grp attribute will represent the ISAT remote busy verify trunk (RBVT) group number associated with the secondary-only DN.

**Attribute: att_grp**

**Fullname:** Attendant Multiline Hunt Group Number

**Attribute Description** This attribute will indicate either the attendant multiline hunt group or the incoming ISDN Attendant (ISAT) busy verify trunk (BVT) group number that a secondary-only directory number (DN) is associated with.

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# RC_EISNM

## 1. Description

This is a static relation for RC/ODA to map from eis_name to eis_id.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
RC_EISNM    relid = 1264  DBSTATIC   DBACC_LIN   DBPRAM    LP      RCMAP
     eis_name    DMTEXT15     (array [ 15 ] of char )
     eis_id      DMEIS_ID     (ushort: 5)  <--- key
         User, Compacted and Stored Tuple Layout   RC_EISNM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                            eis_name                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                            eis_name                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                            eis_name                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                 |         |   |
 12 |                    eis_name                     |  eis_id |***|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLrc_eisnm

**Relation Description**
External information system name.

This relation is used to enter an Identification Number for each EIS. The number will be required in other relations for given EIS. To facilitate the entries, a designated name is entered in this relation which will be used for entry of the Identification Number in other relations.

**Attribute: eis_id**

**Fullname:** External Information System Identification Number

**Attribute Description** This attribute contains an Identification Number assigned to the external information system.

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**Attribute: eis_name**

**Fullname:** External Information System Name

**Attribute Description** This attribute is used to enter a designated name for an EIS ID so that in other relations the name can be used instead of entering the EIS ID itself. All printable ascii characters are allowed, except for lower case letters. All letters should be converted to upper case.

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# RC_EQLOC

## 1. Description

This relation contains the locations bay, vertical position EQLS, of IM equipment units. .P This is a virtual update relation. The root storage relation is RLeqloc_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation RC_EQLOC.

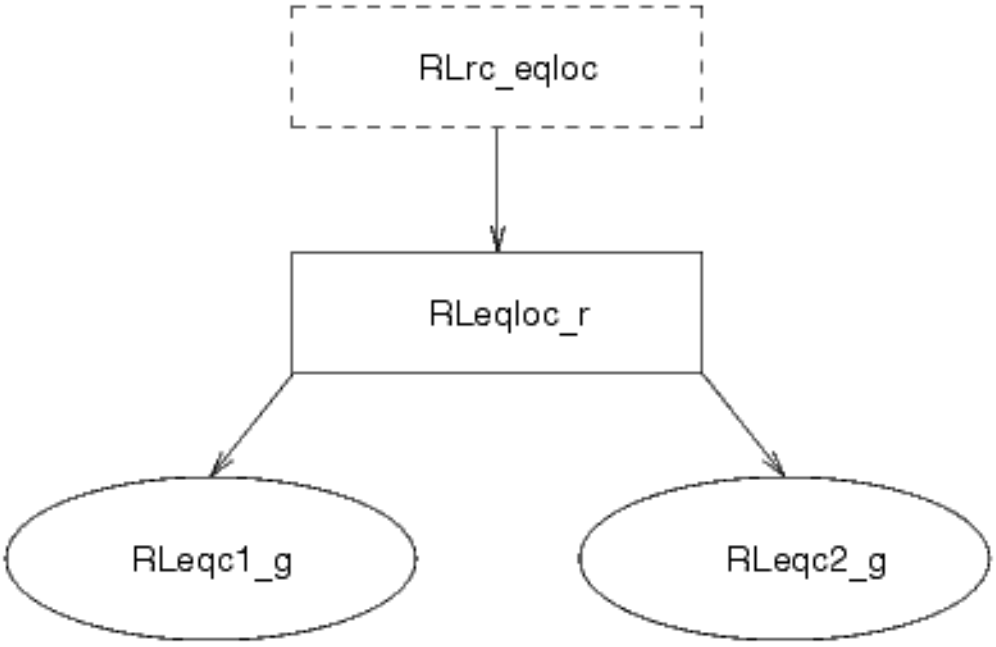


**Figure 1 Virtual Relation RC_EQLOC**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LR |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
RC_EQLOC    relid = 118   DBSTATIC   DBACC_OPV   DBNOTODD  LR      NULL
     picb        DMPICB       (ushort)
     sndpicb     DMPICB       (ushort)
     pidb        DMPIDB       (ushort)
     sndpidb     DMPIDB       (ushort)
     mtb0        DMGCIRCUIT   (struct)
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
     mtb1        DMGCIRCUIT   (struct)
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
     mtb0_idx    DMCKTINDX    (ushort)
     mtb1_idx    DMCKTINDX    (ushort)
     im          DMMODULE     (ushort: 8)     <--- key
     unittype    DMUNITTYPE   (enum: 7)     <--- key
```

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```
    unit_no     DMUNITNO     (ushort: 8)     <--- key
(a) service_group  DMUNS5       (ushort: 5)     <--- key
(b) mtb0_msu    DMUNS1       (ushort: 1)
(c) mtb1_msu    DMUNS1       (ushort: 1)
    bay         DMSMBAY      (ushort: 10)
(d) cab_ref     DMCABREF     (enum: 2)
(e) com_shelf   DMBOOL       (enum: 1)
    risite      DMUNS10      (ushort: 10)
    vertpos     DMUNS8       (ushort: 8)
    aisle       DMCTXT4      (array [ 4 ] of char )
        User, Compacted and Stored Tuple Layout   RC_EQLOC
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |               picb            |            sndpicb            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |               pidb            |            sndpidb            |
   |===============+============  mtb0 ============+===============|
   |                               |               |               |
 8 |            circuit            |***************|     module    |
   |===============+============  mtb1 ============+===============|
   |                               |               |               |
12 |            circuit            |***************|     module    |
   |===============+===============+===============+===============|
   |                               |                               |
16 |            mtb0_idx           |            mtb1_idx           |
   |---------------+---------------+---------------+---------------|
   |               |             | |               |         | | | |
20 |       im      |   unittype  |*|    unit_no    |    a    |*|b|c|
   |---------------+---------------+---------------+---------------|
   |                   |   | |     |                   |           |
24 |        bay        | d |e|*****|       risite      |***********|
   |---------------+---------------+---------------+---------------|
   |               |                                               |
28 |    vertpos    |                    aisle                      |
   | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |               |                                               |
32 |     aisle     |***********************************************|
   |---------------+---------------+---------------+---------------|
      ( 36 bytes )
```

## 4. Population Rules for RLrc_eqloc

**Relation Description**
Equipment location.

Locations bay vertical position EQLS of IM equipment units.

**Attribute: im**

**Fullname:** IM number

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**Attribute Description** For each Alarm and Status Circuit (215A CM) or Remote Alarm Unit (RAU/OAU)

**Attribute: unittype**

**Fullname:** unit type.

**Attribute Description** Unit type taken from CKTDATA relation. For each alarm and status circuit (215A CM) in an RSM, ORM, or TRM, 'unittype' should be set to SMASU. For each RAU/OAU in an RSM, ORM, or TRM 'unittype' should be set to SMOAU. For population restrictions, see poprules for RLclidat rm_alm_out attribute.

**Attribute: unit_no**

**Fullname:** Unit number

**Attribute Description** For each alarm and status circuit (215A CM) or RAU/OAU in an RSM, ORM or TRM 'unit_no' should be set to zero.

**Attribute: service_group**

**Fullname:** Service group number

**Attribute Description** For each alarm and status circuit (215A CM) or RAU/OAU in an RSM, ORM, or TRM 'service_group' should be set to zero.

***NOTE:*** For units of type SMDLTU or SMDLTU2, this field is actually the DFI/DFI-2 BOARD number (1-10), not the service group number.

***NOTE:*** If a DLTU or DLTU2 unit is present, but no boards have been grown in, a dummy tuple with service group of zero must be populated, and removed when a DFI board is actually grown in.

***NOTE:*** For the DNU-S, the service_group attribute is really the data group. The data group refers to one half of the DNU-S excluding the CCs. Data group 0 is required, but data group 1 is optional.

**Attribute: bay**

**Fullname:** Bay

**Attribute Description** Bay in which unit is located. For each alarm and status circuit (215A CM) or RAU/OAU in an RSM, ORM, or TRM, 'bay' should be set to the switching module controller cabinet number in which the alarm and status circuit is located.

```
Bay for an SM is 0 to 4.
Bay for an SM-2000 is from 0 to 14, 100 to 104, or 200 to 208
        (DNU-S can also use the range 90 to 99).
```

**Attribute: vertpos**

**Fullname:** Vertical position

**Attribute Description** Vertical position of the unit. For each alarm and status circuit (215A CM) or RAU/OAU in an RSM, ORM, or TRM, 'vertpos' should be set to the vertical height of the Alarm Status Unit (ASU) in the switching module controller cabinet containing that alarm and status circuit.

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For each module controller and Time-Slot Interchanger (TSI) unit (MCTU) and Local Digital Service Unit model 2 (LDSU2), if 'unittype' for the MCTU in the Switching Module (SM) is SMSMP20 or SMMCTU3 and if this unit is the second SM in the cabinet then 'vertpos' must be set to 41.

**Attribute: aisle**

**Fullname:** Aisle

**Attribute Description** Aisle number where unit is located. For each alarm and status circuit (215A CM) or RAU/OAU in an RSM, ORM, or TRM, 'aisle' should be set to the four-character designation for the aisle containing the switching module controller cabinet in which the alarm and status circuit is located.

**Attribute: com_shelf**

**Fullname:** Compact shelf indicator

**Attribute Description** Indicates if the unit is located in the compacted shelf. The compact shelf can support the MMSU, RAF, SMSAS, GDSF, and DLTU2 units.

**Attribute: cab_ref**

**Fullname:** Cabinet reference

**Attribute Description** Describes the physical placement of a hardware unit with respect to a 5ess cabinet. Specifically, an AIU may be placed in the front or the rear of a cabinet.

**Attribute: picb**

**Fullname:** Peripheral interface control bus (PICB)

**Attribute Description** PICB number plus one of unit. Some units have hard-coded PICB numbers (or pseudo-PICB numbers) for the value of this 'picb' attribute:

For each alarm and status circuit (215A CM) or RAU/OAU in an RSM, ORM, or TRM, 'picb' should be set to 0x40 (pseudo-PICB).

For facility interface unit (FIU) side 0 in an RSM, 'picb' should be set to 0x35.

For FIU side 1 in an RSM, 'picb' should be set to 0x36.

**Attribute: sndpicb**

**Fullname:** Second PICB

**Attribute Description** Zero (there is no 'sndpicp' for LU2).

**Attribute: pidb**

**Fullname:** Peripheral interface data bus (PIDB)

**Attribute Description** PIDB number of the unit. The DFIs connected to the FIU are connected via Facilities Interface Data Buses (FIDBs). In this case the 'pidb' field refers to the FIDB. For each alarm and status circuit (215A CM) or RAU/OAU in an RSM, ORM, or TRM, 'pidb' should be set to zero.

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**Attribute: sndpidb**

**Fullname:** Second PIDB

**Attribute Description** Second PIDB number of DFI-2 board, if equipped. DFI-2s can be connected to the Facilities Interface Unit (FIU) via FIDBs. In this case, the 'sndpidb' field refers to the second FIDB corresponding to relative facility 1. The default value for 'sndpidb' is 0x7F.

**Attribute: mtb0**

**Fullname:** Metallic test bus0

**Attribute Description** Metallic test bus0.

**Attribute: mtb0.circuit**

**Fullname:** Circuit

**Attribute Description** Metallic test bus zero, for analog unit. For each alarm and status circuit (215A CM) or RAU/OAU in an RSM, ORM, or TRM, 'mtb0.circuit' should be (0,0). RSM, ORM, or TRM, mtb0.circuit should be #GLNULCKT.

**Attribute: mtb0.module**

**Fullname:** Module

**Attribute Description** IM number. For each alarm and status circuit (215A CM) or RAU/OAU in an RSM, ORM, or TRM, 'mtb0.module' should be (0,0). Alarm Unit (RAU/OAU) in an RSM, ORM or TRM, mtb0.module should be 0.

**Attribute: mtb1**

**Fullname:** Metallic test bus1

**Attribute Description** Metallic test bus1.

**Attribute: mtb1.circuit**

**Fullname:** circuit.

**Attribute Description** Metallic test bus one, for analog unit. For each Alarm and RSM, ORM or TRM, mtb1.circuit should be #GLNULCKT.

**Attribute: mtb1.module**

**Fullname:** Module

**Attribute Description** Metallic test bus one, for analog unit. For each Alarm and RSM, ORM, or TRM, mtb1.module should be 0.

**Attribute: mtb[*]_idx**

**Fullname:** Metallic Test Bus 0/1 circuit InDeX

**Attribute Description** This is the Metallic Test Bus 0 or 1 circuit index. For each Alarm and Status Circuit (215A CM) or Remote Alarm Unit (RAU/OAU) in an RSM, ORM, or TRM, mtb(0:1)_idx should be #GLNULCX.

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**Attribute: mtb[*]_msu**

**Fullname:** Metallic Test Bus 0/1 Metallic Service Unit unit number

**Attribute Description** This is the unit number of the Metallic Service Unit to which the Metallic Test Bus (MTB) 0 or 1 terminates. For each Alarm and Status Circuit (215A CM) or Remote Alarm Unit (RAU/OAU) in an RSM, ORM, or TRM, mtb(0:1)_msu should be 0.

**Attribute: risite**

**Fullname:** remote peripheral site identification.

**Attribute Description** This is the remote peripheral site id of the remote site that hosts this unit.
**Defines:** "db/DMcircuit.h", "db/DMcktindx.h", "db/DMpidb.h"

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# RC_FNL

## 1. Description

This Recent Change Digit analysis relation is for administering group partitioning of RLdaprmfnl.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 21000 |
| expected tuples | 1200 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| index length | 9 |
| ks key store | DBNO |
| optimize | DBYES |
| permutation type | perm |

## 3. Field Layout

```
RC_FNL      relid = 1215  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     table       DMTABLE      (ulong: 20)     <--- key, not stored
     ldit        DMSHORT      (short)
         User and Compacted Tuple Layout     RC_FNL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |                |
  0 |                  table                        |************************|
    |---------------+---------------+---------------+---------------|
    |                                 |                                |
  4 |               ldit              |********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     ldit        DMSHORT      (short)
           Stored Tuple Layout   RC_FNL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                                |
  0 |               ldit              |********************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population rules for RLrc_fnl

### Relation Description

RECENT CHANGE DIGIT ANALYSIS FINAL DATA RELATION
RECENT CHANGE ONLY RELATION: RLrc_fnl will be updated with the table numbers obtained from RLdaprmfnl. The corresponding LDIT of which this table is a part of, or 0 if the table belongs to an RDIT will be the entry for RLrc_fnl.ldit.
For existing data, the relation is constructed by traversing the tree for each LDIT/RDIT and finding the associated table number. An entry is made here with that table number and the

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LDIT or 0 if an RDIT.

**Attribute:**
table
**Fullname:**
table
**Attribute Description:**
This attribute corresponds to the attribute RLdaprmfnl.previous.

**Attribute:**
ldit
**Fullname:**
ldit
**Attribute Description:**
This attribute is the LDIT number for which the table number in RLdaprmfnl belongs to or is set to 0 if the table number is part of an RDIT.

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# RC_HOLE

## 1. Description

This relation stores holes formed by deleting indices allocated using RLrc_qidx. Some qtyps have their own dedicated hole relations instead of using this relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 6000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| foldtype | DBDEFAULT |

## 3. Field Layout

```
RC_HOLE     relid = 1820  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP


     index       DMUSHORT     (ushort)  <--- key
     succ        DMUSHORT     (ushort)
     module      DMMODULE     (ushort: 8)       <--- key
     qtyp        DMQTYP       (enum: 6) <--- key
         User, Compacted and Stored Tuple Layout    RC_HOLE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             index             |              succ             |
    |---------------+---------------+---------------+---------------|
    |               |           |                                   |
  4 |     module    |    qtyp   |***********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLrc_hole

### Relation Description

```
        Recent Change index Holes

        RLrc_hole is a general relation for storing holes formed by
        deleting indices allocated using RLrc_qidx.  Some queue types
        have their own dedicated hole relations instead of using this
        relation.

        Each queue type has up to four tuples in RLrc_qidx per SM,
        depending on how many queues that queue type uses.  For the
        queue types that use RLrc_hole, each tuple of RLrc_qidx gives
        the next index that has never yet been allocated, the number
        of holes (tuples that were once allocated but were later
        released), and the number of the first hole.  The number of
```

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holes equals the number of corresponding tuples in RLrc_hole. RLrc_hole consists of linked lists of holes, where the headcells are RLrc_qidx tuples. When allocating an index, Recent Change uses a hole in preference to using the next never-yet-allocated index.

The keys to RLrc_hole identify a index that has been released and can be reused. The non-key attribute, succ, is the link to the next hole (tuple of RLrc_hole), or 0 if there are no more.

**Attribute:**
module
**Fullname:**
Switching module
**Attribute Description:**
There is a linked list of RLrc_hole tuples for each SM, queue type, and queue ID combination in RLrc_qidx, for those queue types that use RLrc_hole. A linked list may be empty.

**Attribute:**
qtyp
**Fullname:**
Queue type
**Attribute Description:**
There is a linked list of RLrc_hole tuples for each SM, queue type, and queue ID combination in RLrc_qidx, for those queue types that use RLrc_hole. A linked list may be empty. Not all queue types use RLrc_hole; some use other relations.

**Attribute:**
index
**Fullname:**
Index value
**Attribute Description:**
Index is the value of an index that had once been allocated but was later released. The number (index % no_of_queues) is usually equal to the queue ID in the RLrc_qidx headcell of this queue, but may be different. This is because Recent Change usually releases indices to the matching list to balance the number of holes in each list, but if that queue is busy, it releases them to a different queue.

**Attribute:**
succ
**Fullname:**
Successor
**Attribute Description:**
Successor is the link to the next RLrc_hole tuple. If this is the last tuple in the linked list, successor will be 0.

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**Defines:**

```
          "db/DMcircuit.h",
          "db/DMport.h",
          "ccs/CCc7_param.h",
          "db/DMportindx.h"
```

# RC_HOTEL

## 1. Description

To hold the available unique autoquote hotel id values during the deletion of hotels from the relation RLfc_hotel. As tuples are added to the RLrc_hotel relation this relation should be looked at first to determine if there are any free hotel id values that can be reused. It is used by recent change.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 512 |
| access type | DBACC_CIND |
| memory type | DBDISK |
| distribution | DO |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 2048 |
| page level | 2 |
| ks key store | DBNO |

## 3. Field Layout

```
RC_HOTEL    relid = 955   DBSTATIC   DBACC_CIND  DBDISK    DO      DDBM
     tupnumb     DMUNS9       (ushort: 9)  <--- key, not stored
     hotel1_id   DMRC_HID     (ushort: 13)
     hotel2_id   DMRC_HID     (ushort: 13)
     hotel3_id   DMRC_HID     (ushort: 13)
     hotel4_id   DMRC_HID     (ushort: 13)
     hotel5_id   DMRC_HID     (ushort: 13)
     hotel6_id   DMRC_HID     (ushort: 13)
     hotel7_id   DMRC_HID     (ushort: 13)
     hotel8_id   DMRC_HID     (ushort: 13)
     hotel9_id   DMRC_HID     (ushort: 13)
     hotel10_id  DMRC_HID     (ushort: 13)
         User and Compacted Tuple Layout   RC_HOTEL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                 |                                             |
  0 |     tupnumb     |*********************************************|
    |---------------+---------------+---------------+---------------|
    |                         |     |                         |     |
  4 |        hotel1_id        |*****|        hotel2_id        |*****|
    |---------------+---------------+---------------+---------------|
    |                         |     |                         |     |
  8 |        hotel3_id        |*****|        hotel4_id        |*****|
    |---------------+---------------+---------------+---------------|
    |                         |     |                         |     |
 12 |        hotel5_id        |*****|        hotel6_id        |*****|
    |---------------+---------------+---------------+---------------|
    |                         |     |                         |     |
 16 |        hotel7_id        |*****|        hotel8_id        |*****|
    |---------------+---------------+---------------+---------------|
    |                         |     |                         |     |
 20 |        hotel9_id        |*****|        hotel10_id       |*****|
```

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```
   |---------------+---------------+---------------+---------------|
      ( 24 bytes )
    hotel1_id   DMRC_HID     (ushort: 13)
    hotel2_id   DMRC_HID     (ushort: 13)
    hotel3_id   DMRC_HID     (ushort: 13)
    hotel4_id   DMRC_HID     (ushort: 13)
    hotel5_id   DMRC_HID     (ushort: 13)
    hotel6_id   DMRC_HID     (ushort: 13)
    hotel7_id   DMRC_HID     (ushort: 13)
    hotel8_id   DMRC_HID     (ushort: 13)
    hotel9_id   DMRC_HID     (ushort: 13)
    hotel10_id  DMRC_HID     (ushort: 13)
          Stored Tuple Layout     RC_HOTEL
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                           |     |                           |     |
 0 |         hotel1_id         |*****|         hotel2_id         |*****|
   |---------------+---------------+---------------+---------------|
   |                           |     |                           |     |
 4 |         hotel3_id         |*****|         hotel4_id         |*****|
   |---------------+---------------+---------------+---------------|
   |                           |     |                           |     |
 8 |         hotel5_id         |*****|         hotel6_id         |*****|
   |---------------+---------------+---------------+---------------|
   |                           |     |                           |     |
12 |         hotel7_id         |*****|         hotel8_id         |*****|
   |---------------+---------------+---------------+---------------|
   |                           |     |                           |     |
16 |         hotel9_id         |*****|         hotel10_id        |*****|
   |---------------+---------------+---------------+---------------|
      ( 20 bytes )
```

## 4. Population Rules for RLrc_hotel

**Relation Description**
Recent change only - hotel identification numbers.

This relation holds the available unique autoquote hotel ID values during the deletion of hotels from the relations RLfc_hotel. As tuples are added to the RLrc_hotel relation this relation should be looked at first to determine if there are any free hotel ID values that can be reused. It is used by RC.

The contents of each attribute of each tuple must be unique. The contents of each attribute of each tuple must be less than the value stored in the global called Glrchotel.

**Attribute: tupnumb**

> **Fullname:** tuple number
>
> **Attribute Description** This attribute is nothing more than a sequential number from 1 to 410. RC reads each tuple in order until an empty tuple or incomplete tuple is found. Once RC finds an incomplete tuple or no tuple at all, it uses the last successful tupnumb as the key to retrieve the latest unique hotel identifier to use in assigning aqhid in the relation RLFC_HOTEL.

**Attribute: hotel1_id**

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**Fullname:** This is the hotel ID for the first freed unique hotel ID which was removed from a deleted tuple in the relation RLfc_hotel.

**Attribute Description** The attributes hotel1_id through hotel10_id contain the unique hotel IDs that were used and then freed by the relation, RLfc_hotel, as attribute aqhid. When the attribute value is greater than 4095, this signifies that the aqhid for that attribute is empty - so the previous hotel#_id should be used as the next available aqhid for RLfc_hotel.

**Attribute: hotel2_id**

**Fullname:** This is the hotel ID for the second freed unique hotel ID which was removed from a deleted tuple in the relation RLfc_hotel.

**Attribute Description** The attributes hotel1_id through hotel10_id contain the unique hotel IDs that were used and then freed by the relation, RLfc_hotel, as attribute aqhid. When the attribute value is greater than 4095, this signifies that the aqhid for that attribute is empty - so the previous hotel#_id should be used as the next available aqhid for RLfc_hotel.

**Attribute: hotel3_id**

**Fullname:** This is the hotel id for the third freed unique hotel ID which was removed from a deleted tuple in the relation RLfc_hotel.

**Attribute Description** The attributes hotel1_id through hotel10_id contain the unique hotel IDs that were used and then freed by the relation, RLfc_hotel, as attribute aqhid. When the attribute value is greater than 4095, this signifies that the aqhid for that attribute is empty - so the previous hotel#_id should be used as the next available aqhid for RLfc_hotel.

**Attribute: hotel4_id**

**Fullname:** This is the hotel ID for the fourth freed unique hotel ID which was removed from a deleted tuple in the relation RLfc_hotel.

**Attribute Description** The attributes hotel1_id through hotel10_id contain the unique hotel IDs that were used and then freed by the relation, RLfc_hotel, as attribute aqhid. When the attribute value is greater than 4095, this signifies that the aqhid for that attribute is empty - so the previous hotel#_id should be used as the next available aqhid for RLfc_hotel.

**Attribute: hotel5_id**

**Fullname:** This is the hotel ID for the fifth freed unique hotel ID which was removed from a deleted tuple in the relation RLfc_hotel.

**Attribute Description** The attributes hotel1_id through hotel10_id contain the unique hotel IDs that were used and then freed by the relation, RLfc_hotel, as attribute aqhid. When the attribute value is greater than 4095, this signifies that the aqhid for that attribute is empty - so the previous hotel#_id should be used as the next available aqhid for RLfc_hotel.

**Attribute: hotel6_id**

**Fullname:** This is the hotel ID for the sixth freed unique hotel ID which was removed from a deleted tuple in the relation RLfc_hotel.

**Attribute Description** The attributes hotel1_id through hotel10_id contain the unique hotel IDs that were used and then freed by the relation, RLfc_hotel, as attribute aqhid. When the attribute value

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is greater than 4095, this signifies that the aqhid for that attribute is empty - so the previous hotel#_id should be used as the next available aqhid for RLfc_hotel.

**Attribute: hotel7_id**

**Fullname:** This is the hotel ID for the seventh freed unique hotel ID which was removed from a deleted tuple in the relation RLfc_hotel.

**Attribute Description** The attributes hotel1_id through hotel10_id contain the unique hotel IDs that were used and then freed by the relation, RLfc_hotel, as attribute aqhid. When the attribute value is greater than 4095, this signifies that the aqhid for that attribute is empty - so the previous hotel#_id should be used as the next available aqhid for RLfc_hotel.

**Attribute: hotel8_id**

**Fullname:** This is the hotel ID for the eighth freed unique hotel ID which was removed from a deleted tuple in the relation RLfc_hotel.

**Attribute Description** The attributes hotel1_id through hotel10_id contain the unique hotel IDs that were used and then freed by the relation, RLfc_hotel, as attribute aqhid. When the attribute value is greater than 4095, this signifies that the aqhid for that attribute is empty - so the previous hotel#_id should be used as the next available aqhid for RLfc_hotel.

**Attribute: hotel9_id**

**Fullname:** This is the hotel ID for the ninth freed unique hotel ID which was removed from a deleted tuple in the relation RLfc_hotel.

**Attribute Description** The attributes hotel1_id through hotel10_id contain the unique hotel IDs that were used and then freed by the relation, RLfc_hotel, as attribute aqhid. When the attribute value is greater than 4095, this signifies that the aqhid for that attribute is empty - so the previous hotel#_id should be used as the next available aqhid for RLfc_hotel.

**Attribute: hotel10_id**

**Fullname:** This is the hotel ID for the tenth freed unique hotel ID which was removed from a deleted tuple in the relation RLrc_hotel.a

**Attribute Description** The attributes hotel1_id through hotel10_id contain the unique hotel IDs that were used and then freed by the relation, RLfc_hotel, as attribute aqhid. When the attribute value is greater than 4095, this signifies that the aqhid for that attribute is empty - so the previous hotel#_id should be used as the next available aqhid for RLfc_hotel.

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# RC_ICITG

## 1. Description

Associates an ICI for a hunt group number to a trunk group number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1008 |
| expected number of tuples | 1 |
| density | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
RC_ICITG    relid = 959   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     enumici     DMICI        (enum: 8)  <--- key, not stored
     isat_idx    DMISATGRP    (ushort: 6)  <--- key, not stored
     tkgrpnum    DMGRUPNM     (ushort: 11)
         User and Compacted Tuple Layout   RC_ICITG
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |           |                                   |
  0 |    enumici    |  isat_idx |***********************************|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
  4 |       tkgrpnum        |***************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     tkgrpnum    DMGRUPNM     (ushort: 11)
           Stored Tuple Layout     RC_ICITG
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
  0 |       tkgrpnum        |***************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLrc_icitg

**Relation Description**
ISDN call identifier / trunk group.

This relation associates an ISDN call identifier (ICI) for a hunt group number to a trunk group number. A tuple exists in this relation for each isat_idx/enumici combination that is associated with the set of ISAT multiline hunt groups in the office.

**Attribute: enumici**

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**Fullname:** Real Enumerated ISDN call identifier

**Attribute Description** This attribute holds the value of an ICI that has been subscribed to by this ISAT hunt group.

**Attribute: isat_idx**

**Fullname:** ISAT Index of ISAT hunt group

**Attribute Description** This is an abstract form of a multiline hunt group number.

**Attribute: tkgrpnum**

**Fullname:** Trunk Group Number

**Attribute Description** This attribute holds the trunk group number which corresponds to this enumici.

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# RC_ICRTN

## 1. Description

Intercom calling restriction (ICR) ISDN attendant data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3969 |
| expected number of tuples | 2 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
RC_ICRTN    relid = 1063  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     dport       DMPORT       (ushort)  <--- key
     sm          DMMODULE     (ushort: 8)  <--- key
     config      DMCONFIG     (ulong: 12)
     sfg_acn1    DMGRPNUM     (ushort)
     sfg_acn2    DMGRPNUM     (ushort)
     sfg_acn3    DMGRPNUM     (ushort)
     sfg_acn4    DMGRPNUM     (ushort)
     sfg_acn5    DMGRPNUM     (ushort)
     sfg_acn6    DMGRPNUM     (ushort)
         User, Compacted and Stored Tuple Layout   RC_ICRTN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |              dport            |       sm      |***************|
    |---------------+---------------+---------------+---------------|
    |                         |     |                               |
  4 |          config         |*****|            sfg_acn1           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            sfg_acn2           |            sfg_acn3           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |            sfg_acn4           |            sfg_acn5           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 16 |            sfg_acn6           |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
domain alRC_ICRTN   struct  (4 sub-attributes)
         dport       unsigned short (ushort)
         sm          .2.fake      (ushort)
         config      .3.fake      (ulong: 12)
         sfg_acn     .4.fake      (array [ 6 ] of unsigned short )

         Structure Layout      alRC_ICRTN
```

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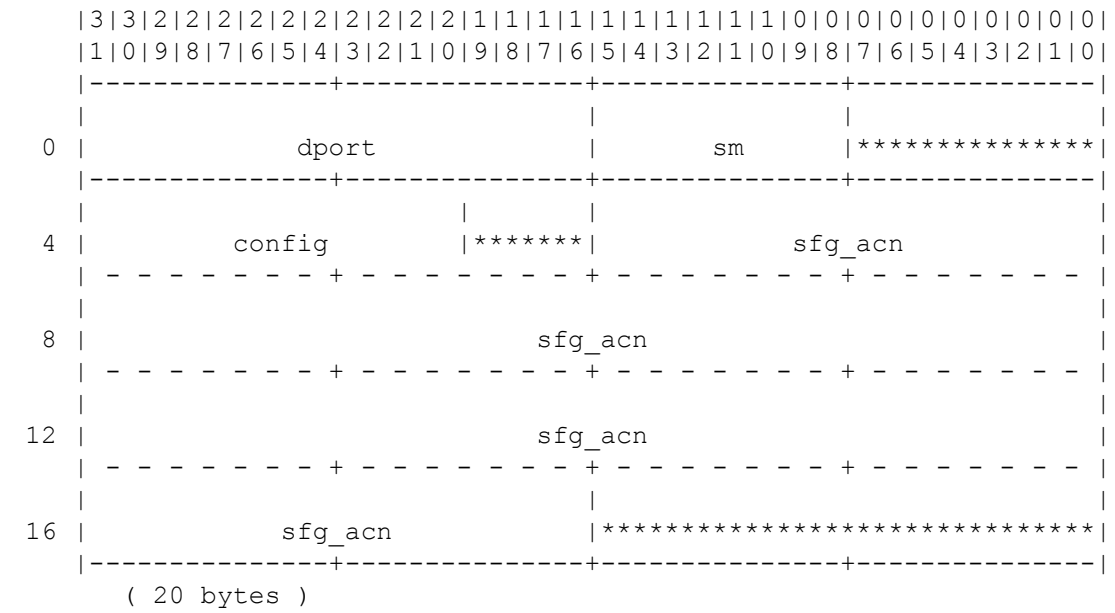


## 4. Population Rules for RLrc_icrtn

**Relation Description**
Intercom calling restriction (ICR) ISDN attendant data.

Recent change relation for ICR ISDN attendant data. Tuple exists only when at least one sfg_acn is not equal to 0.

**Attribute: dport**

**Fullname:** ISDN D - channel port to which attendant console is connected

**Attribute Description** Dport and sm together must be a valid attendant DN, with service class of FC_ISATND. Cpetype field in the relation RLis_term has to be set of IS_TYPATT.

**Attribute: sm**

**Fullname:** Switching module on which attendant console is connected to.

**Attribute Description** Dport and sm together must be a valid attendant DN, with service class of FC_ISATND.

**Attribute: config**

**Fullname:** Configuration id of ISDN attendant console.

**Attribute Description** Config id is calculated by converting dport to lport and then using lport to read RLis_term.

**Attribute: sfg_acn1**

**Fullname:** Indicates if the action ACN_ICR1 is assinged to an ICR SFG

**Attribute Description** If sfg_acn[1] is not equal to 0 then a tuple must exist in RLicr such that:

```
key rlICR.sfg_num = rlRC_ICRTN.sfg_acn[1]
    rlICR.bl_type = ISDNBL
```

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```
        rlICR.action  = ACN_ICR1
```

**Attribute: sfg_acn2**

**Fullname:** Indicates if the action ACN_ICR2 is assigned to an ICR SFG

**Attribute Description** If sfg_acn[2] is not equal to 0 then a tuple must exist in RLicr such that:

```
key rlICR.sfg_num = rlRC_ICRTN.sfg_acn[2]
    rlICR.bl_type = ISDNBL
    rlICR.action  = ACN_ICR2
```

**Attribute: sfg_acn3**

**Fullname:** Indicates if the action ACN_ICR3 is assigned to an ICR SFG

**Attribute Description** If sfg_acn[3] is not equal to 0 then a tuple must exist in RLicr such that:

```
key rlICR.sfg_num = rlRC_ICRTN.sfg_acn[3]
    rlICR.bl_type = ISDNBL
    rlICR.action  = ACN_ICR3
```

**Attribute: sfg_acn4**

**Fullname:** Indicates if the action ACN_ICR4 is assigned to an ICR SFG

**Attribute Description** If sfg_acn[4] is not equal to 0 then a tuple must exist in RLicr such that:

```
key rlICR.sfg_num = rlRC_ICRTN.sfg_acn[4]
    rlICR.bl_type = ISDNBL
    rlICR.action  = ACN_ICR4
```

**Attribute: sfg_acn5**

**Fullname:** Indicates if the action ACN_ICR5 is assigned to an ICR SFG

**Attribute Description** If sfg_acn[5] is not equal to 0 then a tuple must exist in RLicr such that:

```
key rlICR.sfg_num = rlRC_ICRTN.sfg_acn[5]
    rlICR.bl_type = ISDNBL
    rlICR.action  = ACN_ICR5
```

**Attribute: sfg_acn6**

**Fullname:** Indicates if the action ACN_ICR6 is assigned to an ICR SFG

**Attribute Description** If sfg_acn[6] is not equal to 0 then a tuple must exist in RLicr such that:

```
key rlICR.sfg_num = rlRC_ICRTN.sfg_acn[6]
    rlICR.bl_type = ISDNBL
    rlICR.action  = ACN_ICR6
```

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# RC_IDDD

## 1. Description

This relation contains the remarks for IDDD view.

This is a virtual update relation. The root storage relation is RLiddd_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation RC_IDDD.

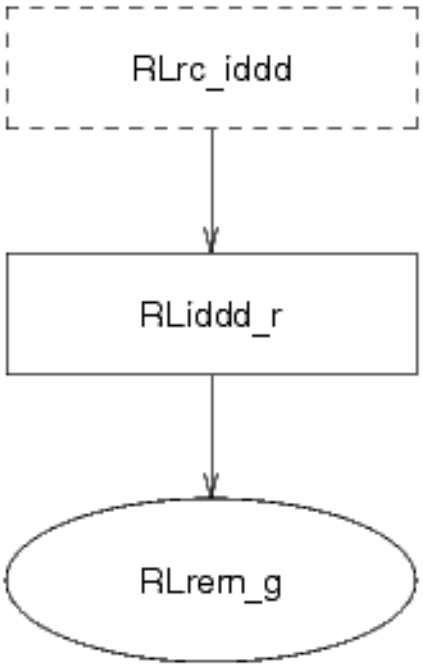


**Figure 1 Virtual Relation RC_IDDD**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
RC_IDDD     relid = 190   DBSTATIC   DBACC_OPV   DBNOTODD  LP      RCDATA


     ldit        DMSHORT      (short)   <--- key
     rem         DMTEXT       (array [ 16 ] of char )
     prfix       DMDIG_BUFF   (array [ 3 ] of char )    <--- key
     rcdigs      DMDIG_BUFF   (array [ 3 ] of char )    <--- key
     city_digs   DMCTXT7      (array [ 7 ] of char )    <--- key, compacted
            User Tuple Layout   RC_IDDD
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |                             |                             |
```

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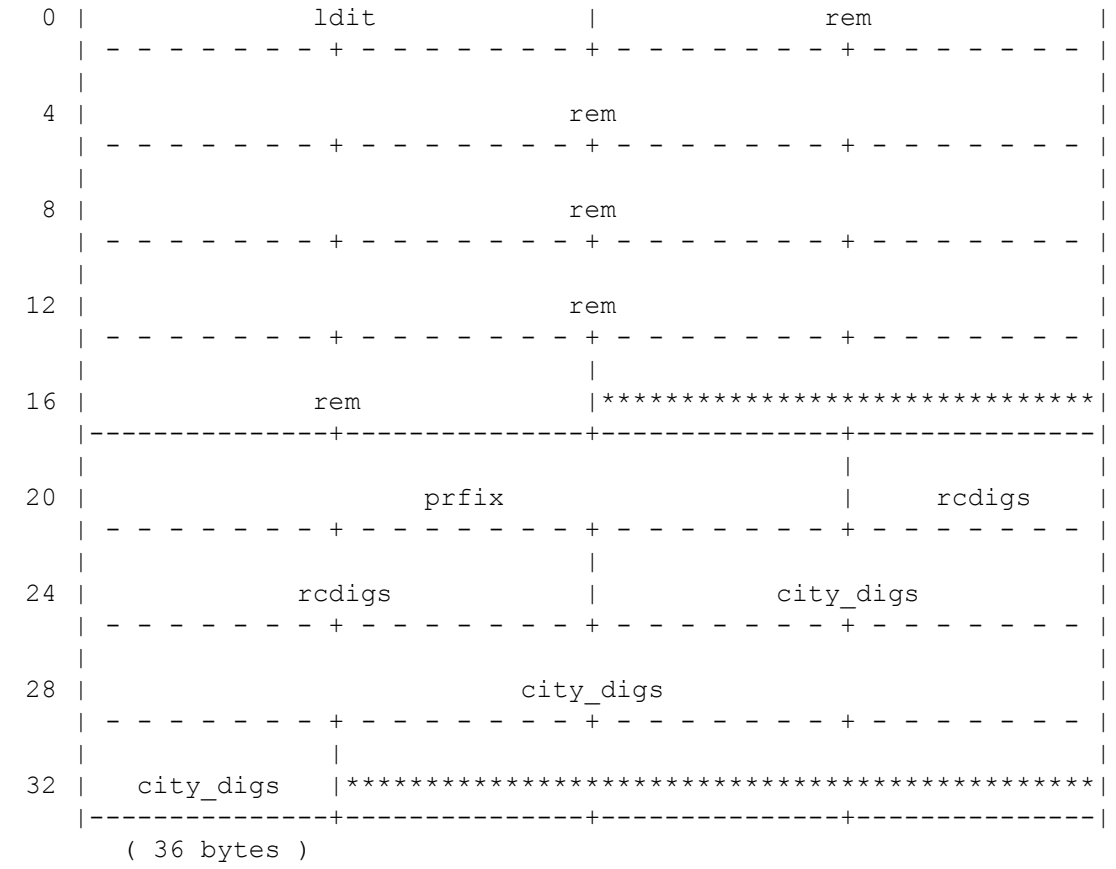
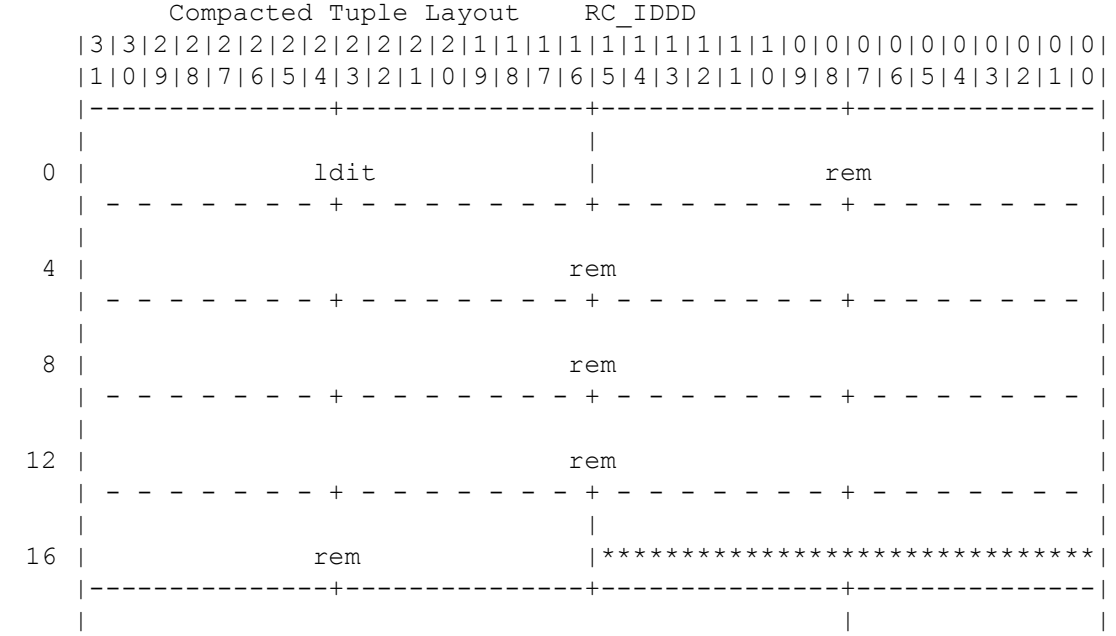



```
ldit        DMSHORT      (short)   <--- key
rem         DMTEXT       (array [ 16 ] of char )
prfix       DMDIG_BUFF   (array [ 3 ] of char )    <--- key
rcdigs      DMDIG_BUFF   (array [ 3 ] of char )    <--- key
city_digs   DMKBCD7      (array [ 4 ] of char )    <--- key, compacted
```

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```
 20 |                     prfix                     |     rcdigs    |
    | - - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                   |                             |
 24 |             rcdigs                |           city_digs         |
    | - - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                   |                             |
 28 |           city_digs               |*****************************|
    |-------------------+---------------+---------------+-------------|
    |                                                                 |
 32 |*****************************************************************|
    |-------------------+---------------+---------------+-------------|
       ( 36 bytes )
```

```
    ldit         DMSHORT      (short)   <--- key
    rem          DMTEXT       (array [ 16 ] of char )
    prfix        DMDIG_BUFF   (array [ 3 ] of char )    <--- key
    rcdigs       DMDIG_BUFF   (array [ 3 ] of char )    <--- key
    city_digs    DMKBCD7      (array [ 4 ] of char )    <--- key, compacted
          Stored Tuple Layout      RC_IDDD
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |-------------------+---------------+---------------+-------------|
   |                                   |                             |
  0|              ldit                 |              rem            |
   | - - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                                 |
  4|                                 rem                             |
   | - - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                                 |
  8|                                 rem                             |
   | - - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                                 |
 12|                                 rem                             |
   | - - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                   |                             |
 16|               rem                 |*****************************|
   |-------------------+---------------+---------------+-------------|
   |                                                   |             |
 20|                     prfix                         |     rcdigs  |
   | - - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                   |                             |
 24|             rcdigs                |           city_digs         |
   | - - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                   |                             |
 28|           city_digs               |*****************************|
   |-------------------+---------------+---------------+-------------|
      ( 32 bytes )
```

## 4. Population rules for RLrc_iddd

**Relation Description**

Remarks for international direct distance dialing (IDDD)

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recent change/verify (RC/V) view

This relation records the remarks entered for the IDDD view.

There is a tuple for each prefix and country access code.

**Attribute:**
ldit
**Fullname:**
Local digit (LDIT)
**Attribute Description:**
LDIT - see general information.

**Attribute:**
prfix
**Fullname:**
Prefix
**Attribute Description:**
The IDDD prefix.

**Attribute:**
rcdigs
**Fullname:**
RC digits
**Attribute Description:**
This is part of the key, and corresponds with ldit
to one tuple in the relation RLrc_ldit.

**Attribute:**
city_digs
**Fullname:**
City digits
**Attribute Description:**
City access code.

**Attribute:**
rem
**Fullname:**
Remark, about rc_iddd tuple
**Attribute Description:**
Used to record a remark about a tuple in relation rc_iddd.

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# RC_IDIDX

## 1. Description

Recent change only relation used to track highest ID used for conflict table and digit table identifiers in IDP, in order to assign new tables a unique identifier.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 347 |
| access type | DBACC_CIND |
| memory type | DBDISK |
| distribution | DO |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 512 |
| data page size | 2048 |
| page level | 2 |

## 3. Field Layout

```
RC_IDIDX    relid = 491   DBSTATIC   DBACC_CIND  DBDISK    DO      DDBM
     idp_gpid    DMIDP_GPID   (ushort)  <--- key
     hi_cnfltbl  DMIDP_TBL    (ushort: 16)
     hi_digtbl   DMIDP_TBL    (ushort: 16)
     hi_revtbl1  DMIDP_TBL    (ushort: 16)
         User, Compacted and Stored Tuple Layout   RC_IDIDX
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             idp_gpid          |           hi_cnfltbl          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |           hi_digtbl           |           hi_revtbl1          |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLrc_ididx

**Relation Description**
Recent change IDP table index relation.

Recent change relation used to track the highest used table identifiers for the conflict, digit, and reverse digit tables.

**Attribute: idp_gpid**

**Fullname:** Individualized Dialing Plan group identifier.

**Attribute Description** IDP group identifier for which the table indices are being maintained.

**Attribute: hi_cnfltbl**

**Fullname:** highest conflict table identifier

**Attribute Description** Indicates the last identifier used as a conflict table identifier.

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**Attribute: hi_digtbl**

**Fullname:** highest digit table identifier

**Attribute Description** Indicates the last identifier used as a digit table identifier.

**Attribute: hi_revtbl1**

**Fullname:** highest reverse digit analysis table identifier

**Attribute Description** Indicates the last identifier used as a reverse digit analysis table identifier.

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# RC_IDRMK

## 1. Description

Remarks assoc. with incoming digit interpretation view.

This is a virtual update relation. The root storage relation is RLidrmk_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation RC_IDRMK.

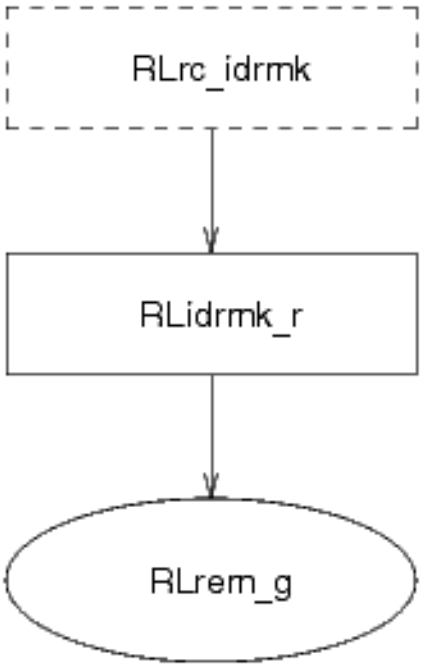


**Figure 1 Virtual Relation RC_IDRMK**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
RC_IDRMK    relid = 207   DBSTATIC   DBACC_OPV   DBNOTODD  LP      RCDATA
     indit       DMSHORT      (short)  <--- key
     rem         DMTEXT       (array [ 16 ] of char )
     rcdigs      DMDIGSTRING  (array [ 15 ] of char )  <--- key, compacted
            User Tuple Layout      RC_IDRMK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             indit             |              rem              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
```

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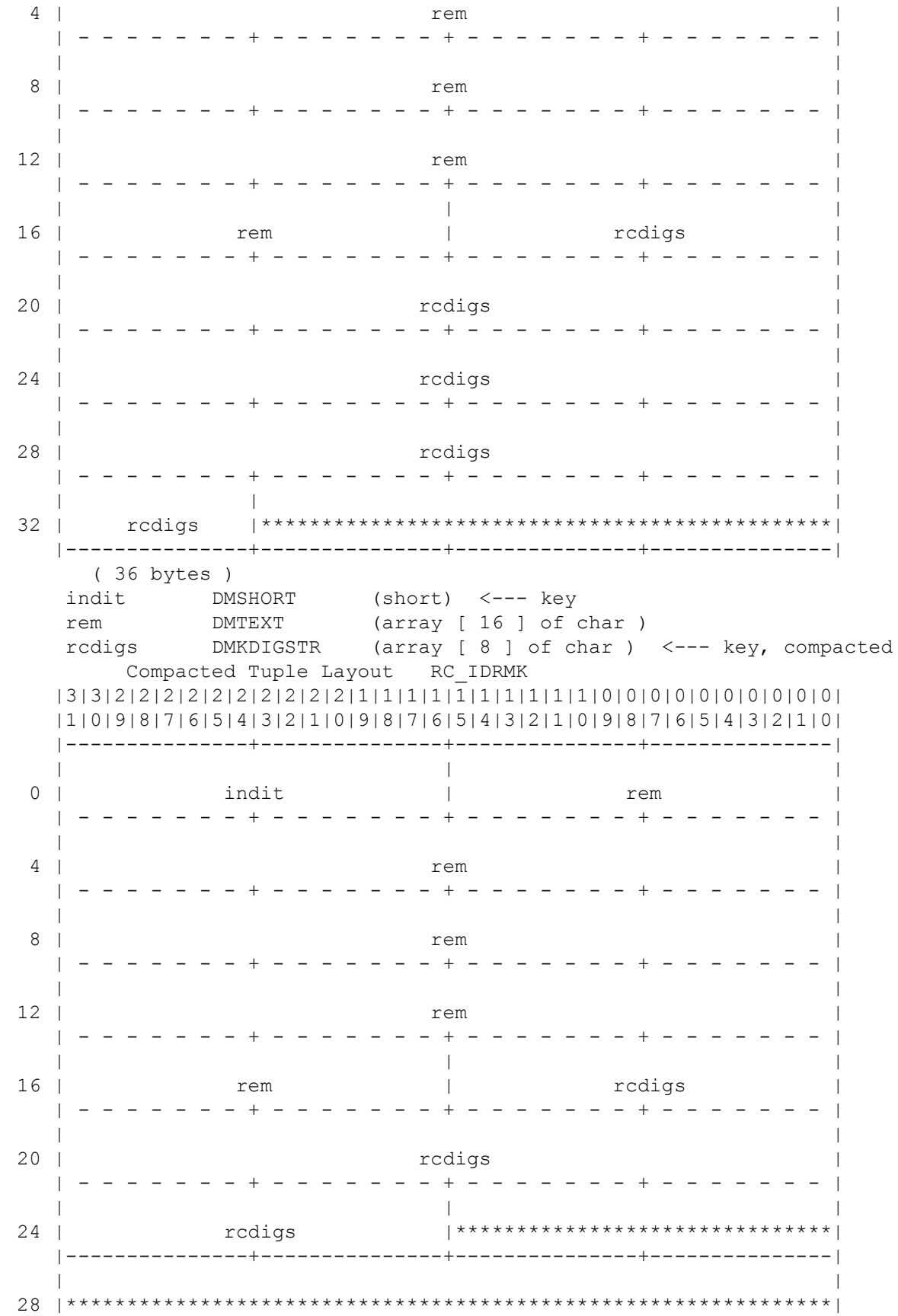
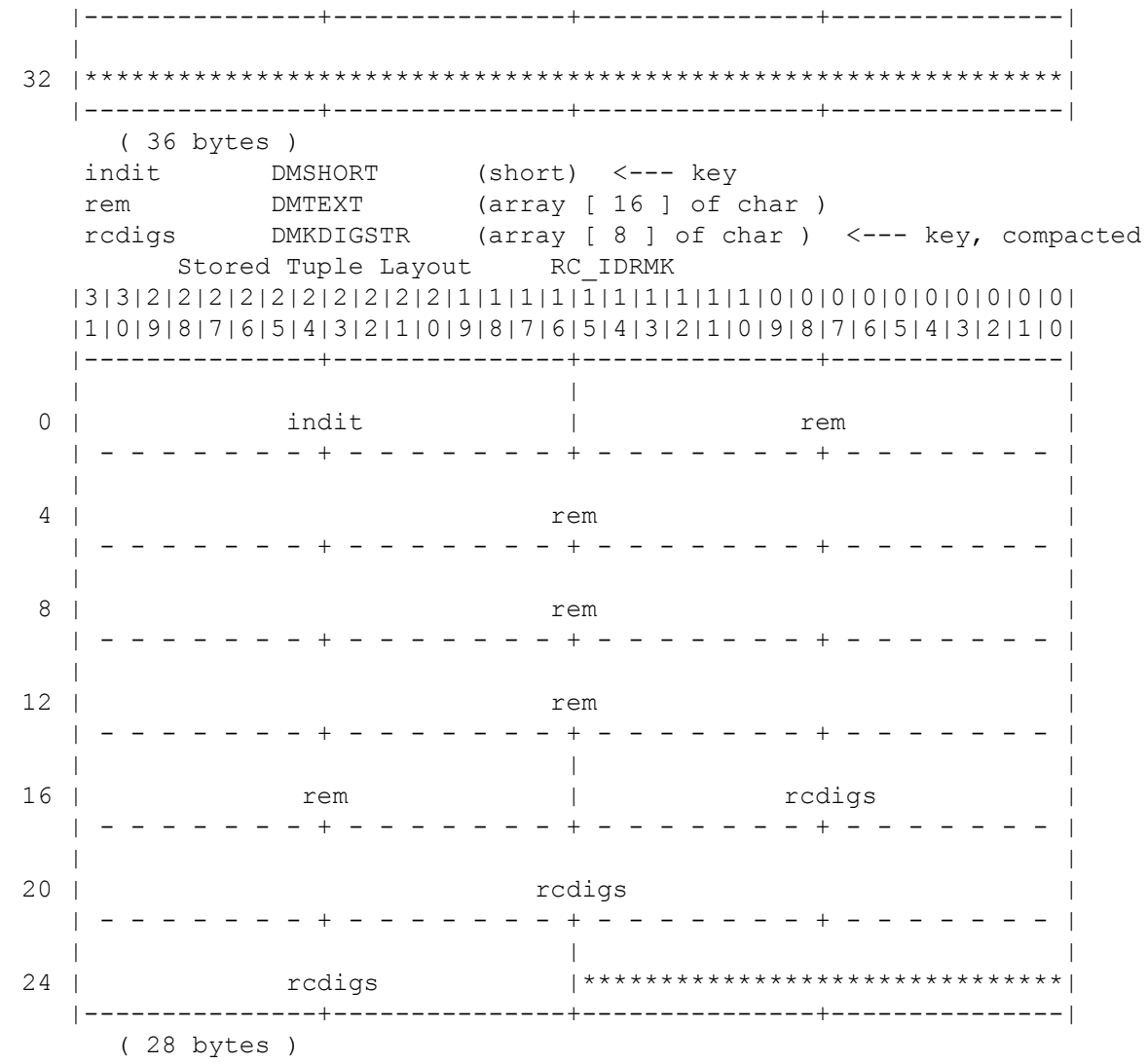

4
rem
8
rem
12
rem
16
rem
rcdigs
20
rcdigs
24
rcdigs
28
rcdigs
32
rcdigs
( 36 bytes )
indit DMSHORT (short) <--- key
rem DMTEXT (array [ 16 ] of char )
rcdigs DMKDIGSTR (array [ 8 ] of char ) <--- key, compacted
Compacted Tuple Layout RC_IDRMK
3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
0
indit
rem
4
rem
8
rem
12
rem
16
rem
rcdigs
20
rcdigs
24
rcdigs
28




## 4. Population Rules for RLrc_idrmk

**Relation Description**
Indit remarks.

Every tuple in this relation exists as a comment, in correspondence with a tuple existing in the relation RC_INDIT and a terminal digit in relation DAPRLDGT.
Populated if the RMK field on RC/V view 9.5 or the ODA INDIT form contains text.

**Attribute: indit**

**Fullname:** Incoming trunk digit interpreter table

**Attribute Description** indit - This is part of the key and corresponds to a tuple in relation RC_INDIT.

**Attribute: rcdigs**

**Fullname:** rc digits

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**Attribute Description** rcdigs - this is part of the key, and corresponds to a specific path in the Incoming Trunk Digit Interpreter Table.

**Attribute: rem**

**Fullname:** remark, about rc_indit tuple

**Attribute Description** rem - used to record a remark about a specific path in the Incoming Trunk Digit Interpreter Table.

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# RC_IDX

## 1. Description

This relation provides the highest index used for relations keys. This relation maintains the largest used keys for several other relations which are keyed via a count (that is, a number meaningful only because it is a key).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| expected tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
RC_IDX      relid = 196   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     prel_idx    DMTABLE      (ulong: 20)
     rmsidx      DMUNS7       (ushort: 7)
     prim_idx    DMTABLE      (ulong: 20)
     prlfnl_idx  DMTABLE      (ulong: 20)
     prmfnl_idx  DMTABLE      (ulong: 20)
     ambig_idx   DMTABLE      (ulong: 20)
     conflidx    DMTABLE      (ulong: 20)
     param       DMSYSID      (short)     <--- key
     sc1idx      DMSC_ID      (short)
     sc2idx      DMSC_ID      (short)
     hntkidx     DMSHORT      (short)
     qkeyidx     DMUNS16      (ushort)
     parmidx     DMUNS16      (ushort)
     rmbidx      DMSHORT      (short)
         User, Compacted and Stored Tuple Layout RC_IDX
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                       |             |         |
  0 |                 prel_idx              |    rmsidx   |*********|
    |---------------+---------------+---------------+---------------|
    |                                       |                       |
  4 |                 prim_idx              |***********************|
    |---------------+---------------+---------------+---------------|
    |                                       |                       |
  8 |                prlfnl_idx             |***********************|
    |---------------+---------------+---------------+---------------|
    |                                       |                       |
 12 |                prmfnl_idx             |***********************|
    |---------------+---------------+---------------+---------------|
    |                                       |                       |
 16 |                ambig_idx              |***********************|
    |---------------+---------------+---------------+---------------|
    |                                       |                       |
 20 |                 conflidx              |***********************|
    |---------------+---------------+---------------+---------------|
```

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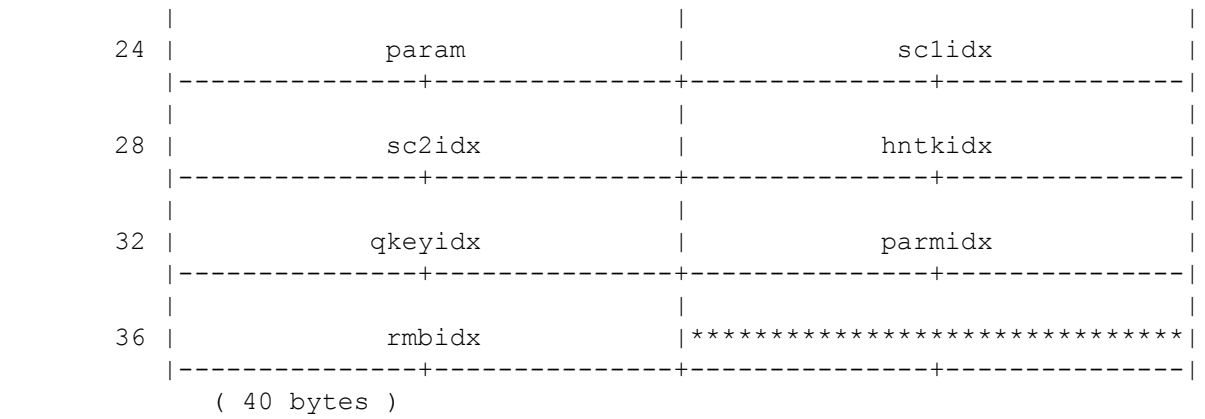


## 4. Population rules for RLrc_idx

### Relation Description

Recent Change / Verify Indexes
This relation maintains the largest used keys for several other relations which are keyed via a count (that is, a number meaningful only because it is a key). When an insertion is to be made to one of those relations, this relation is used to obtain and record the next key value.

**Attribute:**
param
**Fullname:**
Symbolic constant parameter
**Attribute Description:**
A value of 1 is used to access the relation.

**Attribute:**
sc[*]idx
**Fullname:**
Speed Call Indexes
**Attribute Description:**
Indexes used in Speed Call relations

**Attribute:**
prel_idx
**Fullname:**
daprldgt index
**Attribute Description:**
Highest table number used in RLdaprldgt.

**Attribute:**
prim_idx
**Fullname:**
daprmdgt index

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**Attribute Description:**
Highest table number used in RLdaprmdgt.

**Attribute:**
prlfnl_idx
**Fullname:**
daprlfnl index
**Attribute Description:**
Highest table number used in RLdaprlfnl.

**Attribute:**
prmfnl_idx
**Fullname:**
daprmfnl index
**Attribute Description:**
Highest table number used in RLdaprmfnl.

**Attribute:**
ambig_idx
**Fullname:**
da_ambig index
**Attribute Description:**
Highest table number used in RLda_ambig.

**Attribute:**
conflidx
**Fullname:**
da_conflct index
**Attribute Description:**
Highest table number used in RLda_conflct.
NOTE: this attribute is no longer used.
RLda_conflict table numbers are now allocated
from RLrc_qidx and RLrc_hole relations.

**Attribute:**
hntkidx
**Fullname:**
tmblist index
**Attribute Description:**
Highest index number used in RLtmblist.

**Attribute:**
qkeyidx
**Fullname:**
qkeyport index
**Attribute Description:**
Highest qkey number used in RLqkeyport.

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**Attribute:**
parmidx
**Fullname:**
pf_parm index
**Attribute Description:**
Highest index number used in RLpf_parm.

**Attribute:**
rmsidx
**Fullname:**
r_qkeypt index
**Attribute Description:**
Highest index number used in RLr_qkeypt.

**Attribute:**
rmbidx
**Fullname:**
rmblist index
**Attribute Description:**
Highest index number used in RLrmblist.

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# RC_ILTH

## 1. Description

This relation stores the logical termination index holes for ISDN and shared analog lines.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 24600 |
| expected number of tuples | 43 |
| density | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
RC_ILTH     relid = 867   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     module      DMMODULE     (ushort: 8)  <--- key, not stored
     ltm_idxi    DMLTM_IDX    (ulong: 16)  <--- key, not stored
     succ        DMLTM_IDX    (ulong: 16)
         User and Compacted Tuple Layout    RC_ILTH
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                               |               |
  0 |     module    |            ltm_idxi           |***************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              succ             |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     succ        DMLTM_IDX    (ulong: 16)
           Stored Tuple Layout      RC_ILTH
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              succ             |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLrc_ilth

**Relation Description**
Logical ISDN termination index holes.

This relation stores the ltm_idx holes for ISDN and shared analog lines where ltm_type = LTM_ISDN. This relation is used by recent change (RC) only.

The module number is always non-zero. RC keeps four separate ltm_idx link lists for each SM. Reference population rules for RLrc_qidx for a strategic overview of how four linked list are maintained. RC adds a member to a link list when it is no longer needed. This may be due to a primary LT port being deleted or lead terminal

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movement from an SM to another. When an ltm_idx is required to be assigned an LT port on a SM, RC uses the members from the link list. If the link list is empty then the next index is taken from RLrc_qidx.

NOTE:
Only member tuples are kept in this relation. The starting point for a link list is located in the RLrc_qidx relation (RLrc_qidx.succ attribute).

For new offices, ODA will sequentially assign ltm_indices starting with 1 for each SM and populate RLrc_qidx with the next ltm_idx to use for each SM. Empty queue: Read module x, qtyp=LTM_IDXI, and qid y in RLrc_qidx. If RLrc_qidx.succ is zero, then queue y is empty.

Members on list:
Read module x, qtyp=LTM_IDXI, and qid y in RLrc_qidx. The RLrc_qidx.succ attribute points to the first member on the link list in RLrc_ilth. Read tuple in RLrc_ilth with mod=x and ltm_idxi=RCrc_qidx.succ to obtain the first member. The first member has succ = 0 if it is the only member, otherwise it points to the next member in the link list. A succ attribute of 0 indicates the end of the link list. The attribute index in the relation RLrc_qidx defines the next available ltm_idxi index value if all four queues are empty.

**Attribute: module**

**Fullname:** Each module has four separate ltm_idx link lists.

**Attribute Description** Switching modules used as key.

**Attribute: ltm_idxi**

**Fullname:** Logical ISDN termination hole index

**Attribute Description** This attribute is the key to the RLltmstat dynamic relation and is one of the keys to the RLIS_LINE static relation. It is sequentially assigned by RC via hole reuse. The key value 1-8191 (standard SM-2000) or 1-65535 (SM-2000) is used to link idle holes.

**Attribute: succ**

**Fullname:** Successor ltm_idxi

**Attribute Description** Successor ltm_idxi, key to next member of link list or 0 to indicate no or last member on the list.

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# RC_INDIT

## 1. Description

This relation contains the incoming digit analysis number to start table mapping. This relation maintains a list of the RLdaprldgt entry points for each and every indit value used.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 40 |
| expected tuples | 5 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
RC_INDIT    relid = 195   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     preltable   DMTBLE14     (ulong: 20)
 (a) psflag      DMBOOL       (enum: 1)
     indit       DMSHORT      (short)     <--- key
         User, Compacted and Stored Tuple Layout   RC_INDIT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                             | |               |
  0 |                preltable                    |a|***************|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  4 |              indit             |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLrc_indit

### Relation Description

```
        INDIT entry point into RLdaprldgt.
        This relation maintains a list of the RLdaprldgt entry points
        for each and every indit value used.
        This relation records the entry points into RLdaprldgt
        for every INDIT.
```

**Attribute:**

```
        indit
```

**Fullname:**

```
        Incomming Digit Interpretation Table
```

**Attribute Description:**

```
        Used to select a particular digit interpretation table.
```

**Attribute:**

```
        preltable
```

**Fullname:**

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The entry point into RLdaprldgt.

**Attribute Description:**

This value is used as the initial value of RLdaprldgt.previous.

**Attribute:**

psflag

**Fullname:**

Packet Switching Flag

**Attribute Description:**

Indicates that RLdaprldgt contains only packet switching tuples.

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# RC_LAHOL

## 1. Description

ISDN relation that stores the ISDN logical attendant index holes.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3969 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
RC_LAHOL    relid = 950   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     module      DMMODULE     (ushort: 8)  <--- key, not stored
     latidx      DMLATIDX     (ushort: 5)  <--- key, not stored
     succ        DMLATIDX     (ushort: 5)
         User and Compacted Tuple Layout   RC_LAHOL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |         |                                     |
  0 |     module    |  latidx |*************************************|
    |---------------+---------------+---------------+---------------|
    |         |                                                     |
  4 |   succ  |*****************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     succ        DMLATIDX     (ushort: 5)
           Stored Tuple Layout     RC_LAHOL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |         |                                                     |
  0 |   succ  |*****************************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLrc_lahol

**Relation Description**
Logical ISDN attendant index holes.

This ISDN relation stores the logical ISDN attendant index holes.
Recent change (RC) keeps four separate latidx link lists for each SM. Reference population rules for RLrc_qidx for a strategic overview of how four linked list are maintained. RC adds a member to a link list when it is no longer needed. When a latidx is required to be assigned to an ISDN attendant port on a SM, RC uses the members from the link list. If the link list is empty then the next index is taken from RLrc_qidx.

NOTE:

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Only member tuples are kept in this relation. The starting point for a link list is located in the RLrc_qidx relation (RLrc_qidx.succ attribute). For new offices, ODA will sequentially assign latidx from 1 to 31 for each SM and populate RLrc_qidx with the next latidx to use for each SM.

Empty queue:
Read module x, qtyp=LATIDX, and qid y in RLrc_qidx. If RLrc_qidx.succ is zero, then queue y is empty.

Members on list:
Read module x, qtyp=LATIDX, and qid y in RLrc_qidx. The RLrc_qidx.succ attribute points to the first member on the link list in RLrc_lahol. Read tuple in RLrc_lahol with mod=x and latidx=RCrc_qidx.succ to obtain the first member. The first member has succ = 0 if it is the only member, otherwise it points to the next member in the link list. A succ attribute of 0 indicates the end of the link list. The attribute index in the relation RLrc_qidx defines the next available latidx index value if all four queues are empty.

Notice that rc_lahol is a LIFO and no checking is done to assure that the lahol queue order is sequential. Also, these are actual holes. When lahol is empty, a new (not previously used) latidx is assigned from RLrc_qidx.index. For existing offices, ODA will preserve all logical ISDN attendant index assignments and holes across all offline ODA processes.

**Attribute: module**

**Fullname:** Switching Number

**Attribute Description** RC supports separate index queues for each SM. The index corresponds to the SM defined by this attribute value.

**Attribute: latidx**

**Fullname:** Logical ISDN Attendant Terminal Index

**Attribute Description** Attribute latidx is used to cause a dense packing of ISDN attendant keyed relations. Key value is the head cell of the link list for each SM. As used in this relation, latidx contains an index to an available hole in the sequentially assigned latidx numbers in RLlat_lpt.

**Attribute: succ**

**Fullname:** Successor latidx

**Attribute Description** Used as key pointer to the next member of the link list. If this value is 0, this indicates no members, or the last member on the list.

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# RC_LCC

## 1. Description

Line class code expansion.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 6000 |
| expected tuples in relation | 400 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
RC_LCC      relid = 53    DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     rax          DMINDEX      (ushort)     <--- key
     screen_x     DMSCRNIDX    (ushort: 12)
 (a) termclass    DMTERMCLASS  (enum: 4)
     lata         DMILATA      (ushort: 10)
 (b) line_screen  DMBOOL       (enum: 1)
     lcc          DMLCC        (array [ 3 ] of char )     <--- key
     servclass    DMSERVCLASS  (enum)
     insep        DMINSEP      (ushort: 8)
     desep        DMDESEP      (ushort: 8)
     digtree      DMDA_TREE    (ushort: 7)
     rem          DMTEXT       (array [ 16 ] of char )
     lcc_cnt      DMLONG       (long)
         User, Compacted and Stored Tuple Layout RC_LCC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                       |       |
  0 |              rax              |        screen_x       |   a   |
    |---------------+---------------+---------------+---------------|
    |                   | |         |                               |
  4 |        lata       |b|*********|             lcc               |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                |              |               |               |
  8 |      lcc       |   servclass  |     insep     |     desep     |
    |---------------+---------------+---------------+---------------|
    |             | |                                               |
 12 |   digtree   |*|                      rem                      |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                              rem                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                              rem                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 24 |                              rem                              |
```

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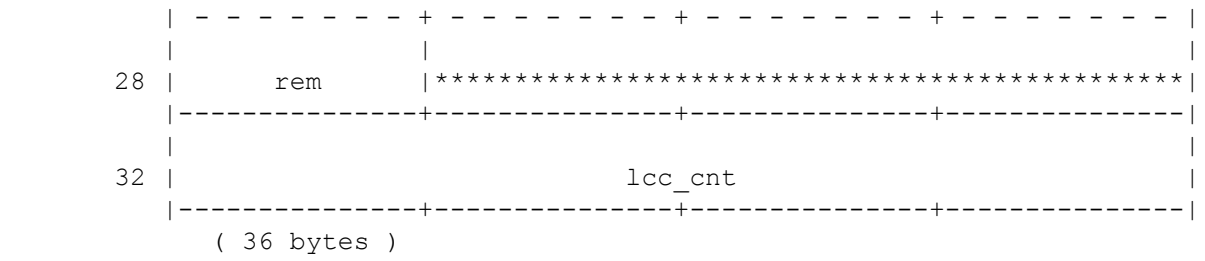


## 4. Population Rules for RLrc_lcc

**Relation Description**
Recent Change Line Class Code.

This relation gives line class specific information. The relation RLrc_oeinfo identifies the (port, party) the (lcc, rax) information is associated with while the relation RLrc_dninfo identifies the (tn) information when no (port, party) information is present, such as a line on intercept these lines may not have (port, party) information.

This relation is static. This relation is used for both domestic an export applications.

When this relation exists with a the attribute servclass populated with PSX25_T1, then a corresponding DAtimer relation will not exist. This may be true for other user of the RLrc_lcc relation, but this comment is only intended to be applied to PSX25_T1 (XAT port) specifically.

**Attribute: lcc**

**Fullname:** Line Class Code

**Attribute Description** An example of the codes in the Translation Guide. This code is usually determined by the telephone company. For example, multiparty - the values should be 4SS, 4FS & 8SS. This information is used for populating RLrc_oeinfo.lcc and RLrc_dninfo.lcc. For packet switching, this information is used in populating RLrc_cninf.lcc. For Default Service, this information is used in populating RLbfgmatch.lcc.

**Attribute: rax**

**Fullname:** Rate Center

**Attribute Description** Used to populate RLrc_oeinfo.rax. for packet switching, this information is used in populating RLrc_cninf.rax.

**Attribute: lcc_cnt**

**Fullname:** Line Class Code Count

**Attribute Description** This attribute is used to keep track of the number of lines assigned to the LCC.

**Attribute: termclass**

**Fullname:** Terminating Class of Service

**Attribute Description** This attribute is used to populate RLrt_dntran.termclass.

**Attribute: servclass**

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**Fullname:** Originating Class of Service

**Attribute Description** This attribute allows the specification of different types of lines and trunks. A line with multi-frequency ringing must be assigned FC_INDVDL, FC_5PTY, FC_10PTY or FC_2PTY values. Originating class of service. This attribute is used to show all the special lines. Such as 2-party or multi-party, coin or pbx, charge-a-call or individual.

For X.25 access on a T1 (XAT) service populate with servclass PSX25_T1.

**Attribute: screen_x**

**Fullname:** Screening Index

**Attribute Description** This information is used to populate RLfc_line.screen_x.

For XAT ports, the value of screen_x is used in relation RLpsx25ln. The RLfc_line relation is not populated (does not exist) for XAT ports.

**Attribute: line_screen**

**Fullname:** Line Screen

**Attribute Description** Indicates whether or not a line has any associated toll/code restriction/diversion or WATS band screening. set to DBYES if the screening index in the tuple is one that is used for toll/code restriction/diversion or WATS band screening.
Note that all lines assigned a given line class code should have line_screen bits in their associated RLfc_line tuples that agree with this bit. The only exception to the rule is XAT ports which do not populate the RLfc_line relation.
For packet switching set line_screen to DBNO.

**Attribute: digtree**

**Fullname:** Digit Analysis Table Identifier

**Attribute Description** This information is used to populate RLfc_line.digtree.
The only exception to the rule is XAT ports which do not populate the RLfc_line relation.
For DSL lines and XAT ports, the value of digtree is used in relation RLpsx25ln.

**Attribute: insep**

**Fullname:** Incoming/Originating Separations Class

**Attribute Description** Used by Division of Revenue (domestic) and by Traffic Dispersion (export). Do not populate the RLfc_line relation for XAT ports.

**Attribute: desep**

**Fullname:** Destination Separation Class

**Attribute Description** Used by Division of Revenue (domestic) and by Traffic Dispersion (export). Do not populate the RLfc_line relation for XAT ports.

**Attribute: lata**

**Fullname:** Local Access Transport Area

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**Attribute Description** This information is used to populate RLfc_line.lata.
Used by the TCAP (Transaction Capabilities Application Part) improvements for a switch spanning multiple LATAs feature. A group of lines, based on line class code (LCC), may reside in a different lata than the office lata.

**Attribute: rem**

**Fullname:** Remarks

**Attribute Description** Character string for remarks.

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# RC_LDIT

## 1. Description

This relation contains the local digit analysis number to startable mapping. This relation maintains a list of the RLdaprmdgt entry points for each and every ldit value used.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 70 |
| expected tuples | 10 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
RC_LDIT     relid = 194   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     primtable   DMTBLE15     (ulong: 20)
 (a) psflag      DMBOOL       (enum: 1)
 (b) fat         DMBOOL       (enum: 1)
     ldit        DMSHORT      (short)     <--- key
     acdcnt      DMMCUSECNT   (ushort)
         User, Compacted and Stored Tuple Layout    RC_LDIT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                         | | |                   |
  0 |                primtable                |a|b|*******************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              ldit             |             acdcnt            |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLrc_ldit

### Relation Description

LDIT entry point into RLdaprmdgt.
This relation maintains a list of the RLdaprmdgt entry points for each and every ldit value used.
LDITs are distributed using group partitioning.
The group type is GPD_DA and the group ID is the value of the DAS to which the LDIT is assigned.

**Attribute:**
ldit
**Fullname:**
Preliminary Digit Interpretation Table
**Attribute Description:**
Used to select a particular digit interpretation table.

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**Attribute:**
primtable
**Fullname:**
The entry point into RLdaprmdgt.
**Attribute Description:**
This value is used as the initial value of RLdaprmdgt.previous.

**Attribute:**
psflag
**Fullname:**
Packet Switching Flag
**Attribute Description:**
Indicates that RLdaprmdgt contains only packet switching tuples.

**Attribute:**
fat
**Fullname:**
Foreign Area Translator
**Attribute Description:**
Redirect further digit translations to a common digit tree?

**Attribute:**
acdcnt
**Fullname:**
Count of ACD/DAA DNs using this particular LDIT
**Attribute Description:**
The acdcnt attribute contains the combined count of Automatic Call Distributor (ACD) DNs and Direct Agent Access (DAA) DNs using a particular LDIT. The count is needed to ensure that LDITs used by ACD/DAA DNs are distributed to all operational SMs in the office. If acdcnt is greater than 0, the LDIT is being used by ACD/DAA DNs and must be distributed to all operational SMs in the office. If the count is 0, the LDIT is not being used by any ACD/DAA DN and can be removed from SMs that no longer need it. The acdcnt count is maintained by RC and ODA and is incremented when new ACD/DAA DNs are inserted, and decremented when existing ACD/DAA DNs are deleted.

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# RC_LDRMK

## 1. Description

Remark associated with local digit interpretation view.

This is a virtual update relation. The root storage relation is RLldrmk_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation RC_LDRMK.

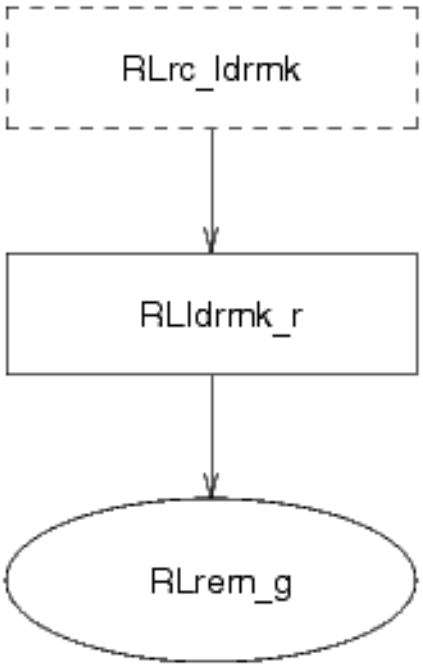


**Figure 1 Virtual Relation RC_LDRMK**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
RC_LDRMK    relid = 164   DBSTATIC   DBACC_OPV   DBNOTODD  LP      RCDATA
     ldit        DMSHORT      (short)  <--- key
     rem         DMTEXT       (array [ 16 ] of char )
     rcdigs      DMDIGSTRING  (array [ 15 ] of char )  <--- key, compacted
            User Tuple Layout      RC_LDRMK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              ldit             |              rem              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
```

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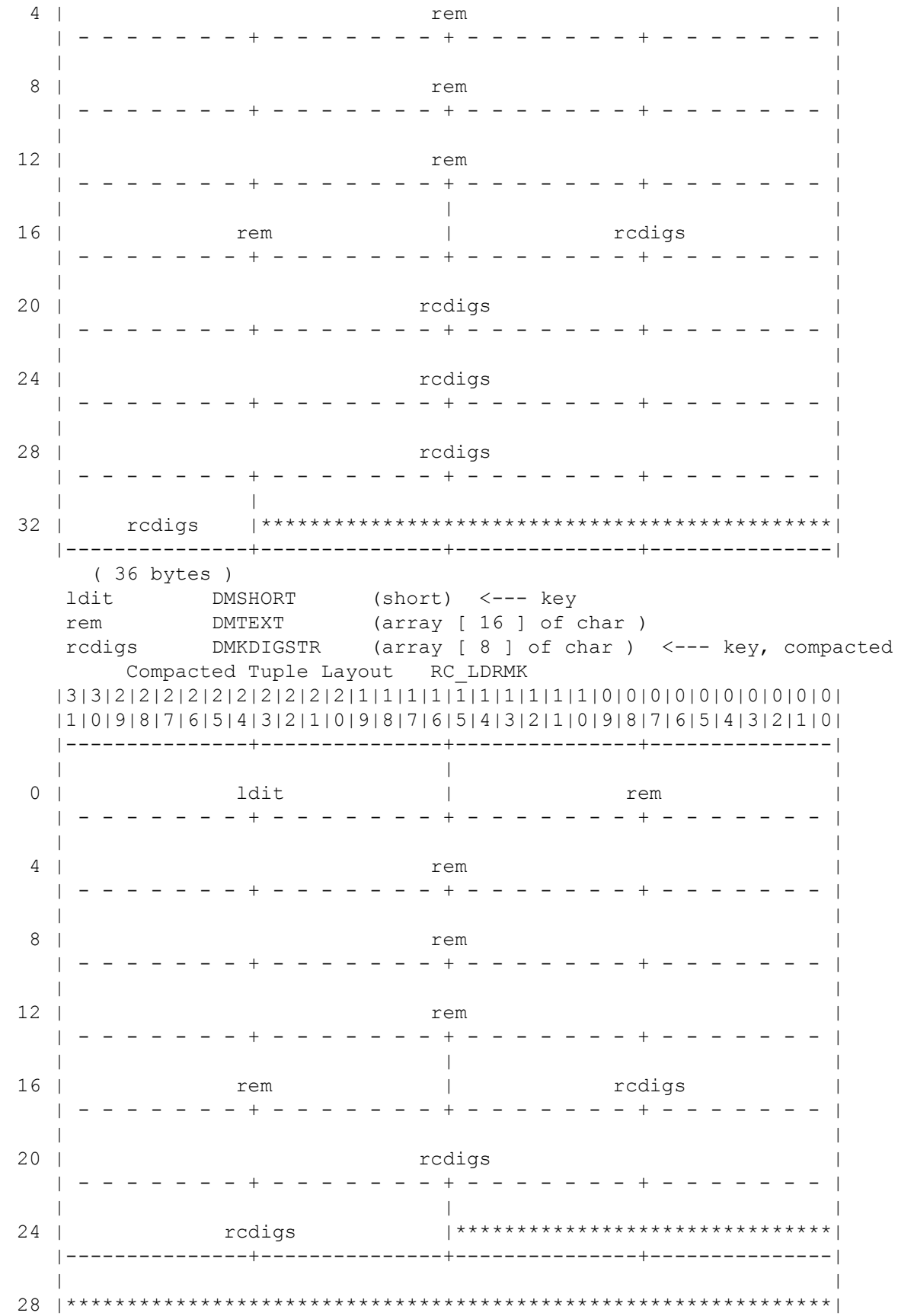


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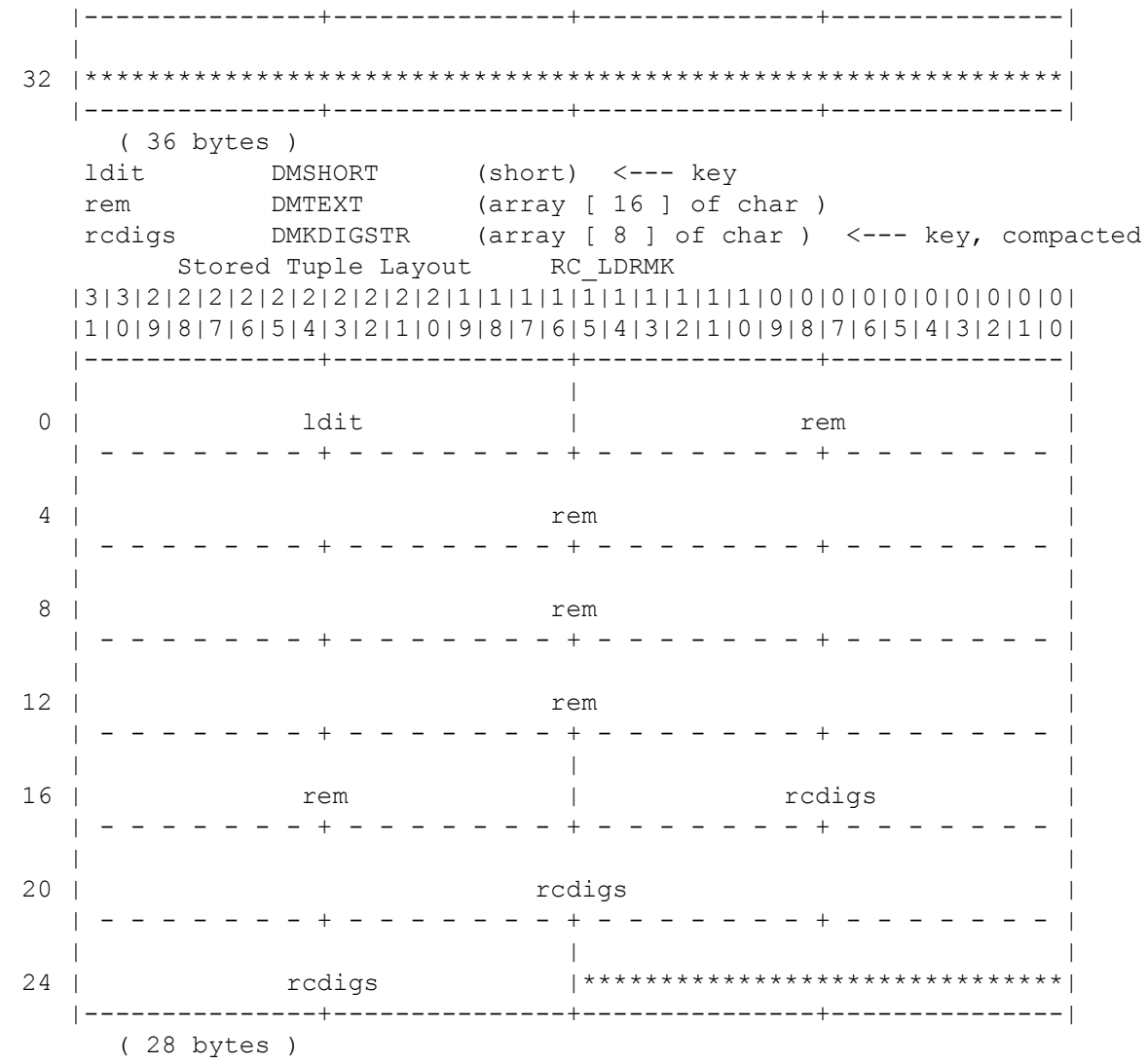


## 4. Population Rules for RLrc_ldrmk

**Relation Description**
Ldit remarks.

Every tuple in this relation exists as a comment, in correspondence with a tuple existing in the relation RC_LDIT and a terminal digit in relation DAPRMDGT.
Populated if the RMK field on RC/V view 9.3 or the ODA LDIT form contain text.

**Attribute: ldit**

**Fullname:** Local Digit Interpreter Table

**Attribute Description** ldit - This is part of the key and corresponds to a tuple in relation RC_LDIT.

**Attribute: rcdigs**

**Fullname:** rc digits

**Attribute Description** rcdigs - This is part of the key. It corresponds to a specific path in the Local

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Digit Interpreter Table.

**Attribute: rem**

**Fullname:** remark

**Attribute Description** rmk - Used to record a remark about a specific path in the Local Digit Interpreter Table.

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# RC_LOCEQ

## 1. Description

Logical name information associated with circuits

***NOTE:*** For all units this relation is a subset of the RLrc_eqloc relation. Therefore there should be a correspondence of tuples and their associated values.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3634 |
| expected tuples in relations | 26 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | SWMTC |
| relation type | DBSTATIC |
| density | 57 |
| trigger function | SMloc_trg |
| insert trigger | DBNO |
| update trigger | DBNO |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
RC_LOCEQ    relid = 23    DBSTATIC   DBACC_HASH  DBPRAM    LPFG    SWMTC
     picb         DMPICB        (ushort)     <--- key
     pidb         DMPIDB        (ushort)
     sndpidb      DMPIDB        (ushort)
     mtb0_idx     DMCKTINDX     (ushort)
     mtb1_idx     DMCKTINDX     (ushort)
     bay          DMSMBAY       (ushort: 10)
 (a) service_group  DMUNS5        (ushort: 5)
 (b) mtb0_msu     DMUNS1        (ushort: 1)
     im           DMMODULE      (ushort: 8)     <--- key
     unitnumber   DMUNITNO      (ushort: 8)
     vertpos      DMUNS8        (ushort: 8)
     unittype     DMUNITTYPE    (enum: 7)
 (c) com_shelf    DMBOOL        (enum: 1)
 (d) cab_ref      DMCABREF      (enum: 2)
 (e) mtb1_msu     DMUNS1        (ushort: 1)
     aisle        DMCTXT4       (array [ 4 ] of char )
     mtb0         DMGCIRCUIT    (struct)
         circuit      DMCIRCUIT     (ushort)
         module       DMMODULE      (ushort: 8)
     mtb1         DMGCIRCUIT    (struct)
         circuit      DMCIRCUIT     (ushort)
         module       DMMODULE      (ushort: 8)
         User, Compacted and Stored Tuple Layout   RC_LOCEQ
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              picb             |              pidb             |
    |---------------+---------------+---------------+---------------|
```

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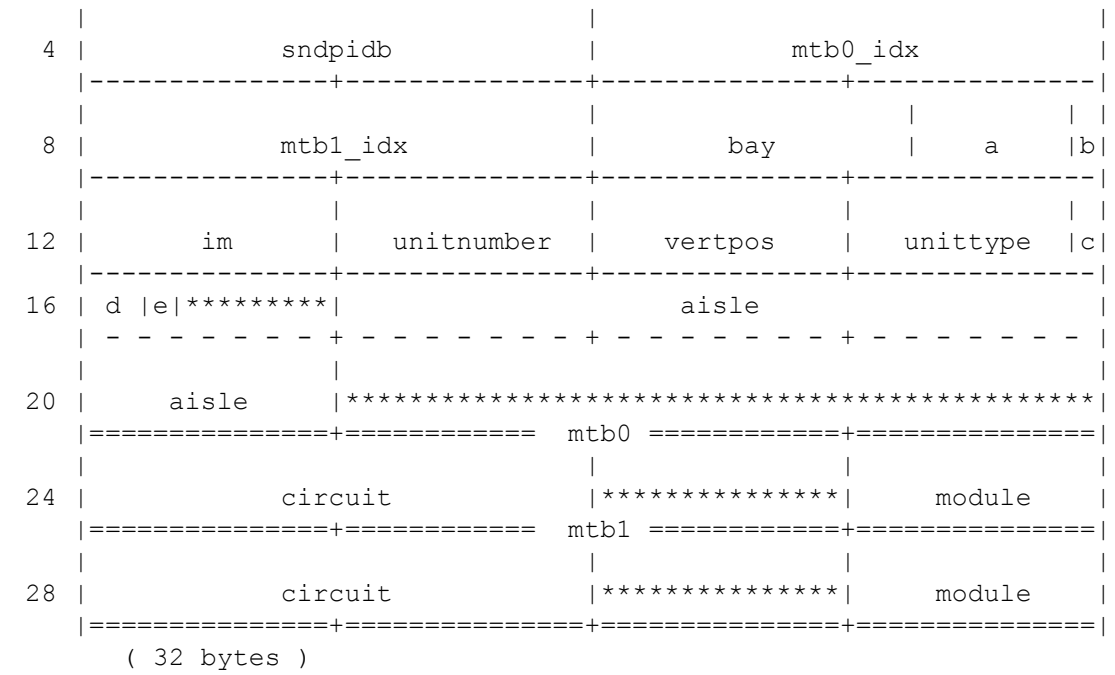


## 4. Population Rules for RLrc_loceq

**Relation Description**
Location equipment.

Logical name information associated with circuits.

> ***NOTE 1:*** For all units this relation is not always a subset of the RLrc_eqloc relation. Therefore there should not always be a correspondence of tuples and their associated values.

***NOTE 2:*** Unless otherwise specified, TRCU refers to TRCU or TRCU2 located at the host office. TRCU2 refers to the TRCU2 located at the ORM.

***NOTE 3:*** Unless otherwise specified, ORM will refer to both ORM and ORM2000.

***NOTE 4:*** CM1 supports ORM only. CM2 can support ORM or ORM2000.

**Attribute: im**

> **Fullname:** The SM the circuit resides on
>
> **Attribute Description** For each message switch (MSGS) and for each MSGS PC community, im should be zero. For each remote alarm unit (RAU) in an RSM, optically remote module (ORM), or two-mile optically remote module (TRM), im should be set to the module number.
>
> In communication module, model 1 (CM1) and communication module, model 2 CM2:
> For each transmission rate converter unit (TRCU) associated with an ORM, 'im' should be set to zero.
>
> For each TRCU2 (located at the ORM), 'im' should be set to the module number.
>
> In CM2:
> For each communication module control unit (CMCU) and time multiplexed switch unit (TMSU), 'im'

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should be zero. For each alarm and status circuit (215A CM) in an RSM, ORM, or TRM, 'im' should be set to the module number.

**Attribute: picb**

**Fullname:** Peripheral interface control bus (PICB) number plus 1

**Attribute Description** For each MSGS, 0 or 1, 'picb' should be set to '20*(MSGS side). For each MSGS PC community, 'picb' should be set to X'20*(MSGS side) + (PC community number) + 1. For each RAU in an RSM, ORM, or TRM, 'picb' should be set to 0x40.

In CM1 and CM2:
For each host TRCU (located at the host office), 'picb' should be set to 0x80 + TRCU number (0x1,0x2,...,0x60). The TRCU number corresponds to the rlTRCUPATH.host_number attribute. Note that a TRCU number can support TWO ORMs, but it can not support ORM and ORM2000 on the same TRCU.

As of 5e12(1), for each remote TRCU, RLrc_loceq is no longer used so those 'picb' numbers may be used for different unit types. The range being freed is in 0x80 thru 0xE0.

In CM2:
For each CMCU, 'picb' should be set to 0x40 + (0x00 for CMCU side 0, 0x20 for CMCU side 1). For each TMSU, 'picb' should be set to 0x40 + (0x00 for TMSU side 0, 0x20 for TMSU side 1) + the TMSU number (0,1,2,...11) + 1. For each alarm and status circuit (215A CM) in an RSM, ORM, or TRM, 'picb' should be set to 0x40.

For facility interface unit (FIU) side 0 in an RSM, 'picb' should be set to 0x35.

For FIU side 1 in an RSM, 'picb' should be set to 0x36.

**Attribute: unittype**

**Fullname:** unit type.

**Attribute Description** In CM1:
For each MSGS, 'unittype' should be set to SMMSWU. For each MSGS PC community, 'unittype' should be set to SMMPU. For each RAU in an RSM, ORM, or TRM, 'unittype' should be set to SMOAU. For each alarm and status circuit (215A CM) in an RSM, ORM, or TRM, 'unittype' should be set to SMASU.

For each TRCU, 'unittype' should be set to SMTRCU (TRCU-E version 1) or SMTRCU2 (TRCU-O version 2).

In CM2:
For each MSGS and PC community number 1, the 'unittype' should be set to SMMSCU2. For other communities, the 'unittype' should be set to SMMSPU3. For each communication module control unit (CMCU), the 'unittype' should be set to SMCMCU. For CM2C, the communication module control 'unittype' should be set to SMCMU.

For each TMSU, model 2, the 'unittype' should be set to SMTMSU2.

For each TMSU, model 3, the 'unittype' should be set to SMTMSU3.

For each RAU in an RSM, ORM, or TRM, 'unittype' should be set to SMOAU. For each alarm and status circuit (215A CM) in an RSM, ORM, or TRM, 'unittype' should be set to SMASU.

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For each TRCU, 'unittype' should be set to SMTRCU (TRCU-E version 1) or SMTRCU2 (TRCU-O version 2).

In CM1 and CM2:
For each TRCU2 'unittype' should be set to SMTRCU2. CM2 can only support ORM2000.

**Attribute: unitnumber**

**Fullname:** Unit number

**Attribute Description** In CM1:
For each MSGS, 'unitnumber' should be set to the MSGS side. For each PC community, 'unitnumber' should be set to 8*(MSGS side) + (PC community number). The valid 'unitnumbers' for PC communities are: 1, 2-5, 9, 10-13.

For each RAU in an RSM, ORM, or TRM, 'unitnumber' should be set to zero.
For each alarm and status circuit (215A CM) in an RSM, ORM, or TRM, 'unitnumber' should be set to zero.

For each TRCU, 'unitnumber' should be set 0x1,0x2,..,0x60. The TRCU 'unitnumber' corresponds to the rlSLNKTMS.trcu_num attribute.

For each TRCU2, 'unitnumber' should be set 0x1,0x2,..,0x60. CM1 will not support ORM2000, only ORM.

In CM2:
For each MSGS and community number 1, the 'unitnumber' should be set to (MSGS side). For other PC communities, 'unitnumber' should be set to 32*(MSGS side) + (PC community number). The valid 'unitnumbers' are: 1, 2-8, 10-15, 33, 34-40, 42-47. For each CMCU, 'unitnumber' should be set to the CMCU side, 0 or 1. For each TMSU, 'unitnumber' should be set to switch unit number (0,1,...,10,11) for the given side. For each RAU in an RSM, ORM, or TRM, 'unitnumber' should be set to zero. For each alarm and status circuit (215A CM) in an RSM, ORM, or TRM, 'unitnumber' should be set to zero.

For each TRCU, 'unitnumber' should be set 0x1,0x2,..,0x60. The TRCU 'unitnumber' corresponds to the rlSLNKTMS.trcu_num attribute.

For each TRCU2, 'unitnumber' should be set 0x1,0x2,..,0x60.

**Attribute: service_group**

**Fullname:** Service group

**Attribute Description** In CM1:
For each MSGS, 'service_group' should be set to zero. For each MSGS PC community, 'service_group' should be set to zero. For each RAU in an RSM, ORM, or TRM, 'service_group' should be set to zero. For each alarm and status circuit (215A CM) in an RSM, ORM, or TRM, 'service_group' should be set to zero.

For each TRCU or TRCU2, 'service_group' should be set to zero.

In CM2:
For each MSGS, 'service_group' should be set to zero. For each PC community, 'service_group' should be set to 1 if picb equals 4, 6, 8, 11, 13, 15, 35, 37, 39, 44, 46, or 48; otherwise, 'service_group' should be set to zero. For each CMCU and TMSU, 'service_group' should be set to zero. For each RAU in an RSM, ORM, or TRM, 'service_group' should be set to zero. For each

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alarm and status circuit (215A CM) in an RSM, ORM, or TRM, 'service_group' should be set to zero.

For each TRCU or TRCU2, 'service_group' should be set to zero.

***NOTE 1:*** For units of type SMDLTU or SMDLTU2, this field is actually the digital facility interface (DFI)/DFI-2 board number (1-10), not the service group number.

***NOTE 2:*** If a digital line and trunk unit (DLTU) or DLTU2 unit is present, but no boards have been grown in, a dummy tuple with a service group of zero must be populated and removed when a DFI board is actually grown in.

**Attribute: bay**

**Fullname:** Bay

**Attribute Description** For each MSGS, 'bay' should be set to the MSGS bay number containing that MSGS. For each MSGS PC community, 'bay' should be set to the MSGS 'bay' number containing that community. For CM1, the valid 'bay' number is 0-7. For CM2, the valid 'bay' number is 0-11. For CM2C, the valid 'bay' number is 1-4, and all core units should all be in the same 'bay'.

For each alarm and status circuit (215A CM) in an RSM, ORM, or TRM, 'bay' should be set to the switching module controller cabinet number in which the alarm and status circuit is located. For each RAU in an RSM, ORM or TRM, 'bay' should be set to the miscellaneous frame number in which the RAU is located.

For each TRCU or TRCU2, 'bay' should be set to the miscellaneous frame number in which the TRCU is located.

**Attribute: vertpos**

**Fullname:** Vertical position

**Attribute Description** For each MSGS, 'vertpos' should be set to the vertical height of the MSCU shelf in that MSGS. For each MSGS PC community, 'vertpos' should be set to the vertical height of the shelf of the Message Switch Peripheral Unit (MSPU) containing that community.

In CM1 and CM2:
For each TRCU or TRCU2 the 'vertpos' should be set to the vertical height (vertical position of lowest shelf to floor in inches) of the TRCU in the miscellaneous frame containing that TRCU.

In CM2:
For each CMCU and TMSU, 'vertpos' should be set to the height of that respective shelf.

For each RAU in an RSM, ORM, or TRM, 'vertpos' should be set to the vertical height of the Office Alarm Unit (OAU) in the miscellaneous frame containing that RAU. For each alarm and status circuit (215A CM) in an RSM, ORM, or TRM, 'vertpos' should be set to the veritcal height of the Alarm Status Unit (ASU) in the switching module controller cabinet containing that Alarm and Status Circuit (ASC).

**Attribute: aisle**

**Fullname:** Aisle

**Attribute Description** For each MSGS, 'aisle' should be set to the character string containing the two-character floor number followed by the two-character aisle number where the associated

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MSCU is located. For each MSGS PC community, 'aisle' should similarly define the floor and aisle numbers for the MSPU containing that community.

In CM1 and CM2:
For each TRCU or TRCU2, 'aisle' should be set to the four character designation for the aisle containing the miscellaneous frame in which the TRCU is located.

In CM2:
For each CMCU and TMSU, 'aisle' should be set to the character containing the two-character floor number where each respective unit is located. For each alarm and status circuit (215A CM) in an RSM, 'aisle' should be set to the four-character designation for the aisle containing the switching module controller cabinet in which the alarm and status circuit is located. For each RAU in an RSM, ORM, or TRM, 'aisle' should be set to the four-character designation for the aisle containing the miscellaneous frame in which the RAU is located.

**Attribute: com_shelf**

**Fullname:** Compact shelf indicator

**Attribute Description** Indicates if the unit is located in the compact shelf. The compact shelf can support the MMSU, RAF, GDSF, and DLTU2 units.

**Attribute: cab_ref**

**Fullname:** Cabinet reference

**Attribute Description** Describes the physical placement of a hardware unit with respect to a *5ESS*®-2000 switch cabinet. Specifically, an AIU may be placed in the front or the rear of a cabinet.

**Attribute: pidb**

**Fullname:** Peripheral interface data bus (PIDB)

**Attribute Description** For each MSGS, 'pidb' should be set to zero. For each MSGS PC community, 'pidb' should be set to zero.

In CM1 and CM2:
For each TRCU or TRCU2, 'pidb' should be set to zero.

In CM2:
For each CMCU and TMSU, 'pidb' should be set to zero.
For each alarm and status circuit (215A CM) in an RSM, ORM, or TRM, 'pidb' should be set to zero. For each RAU in an RSM, ORM, or TRM, 'pidb' should be set to zero. The DFIs connected to the FIU are connected via facilities interface data buses (FIDBs). In this case the 'pidb' field refers to the FIDB.

**Attribute: sndpidb**

**Fullname:** Second PIDB

**Attribute Description** Contains the second PIDB (relative facility 1) terminating to a DFI-2 board. DFI-2s can be connected to the FIU via FIDBs. In this case, the 'sndpidb' field refers to FAC 1's FIDB. The default value for 'sndpidb' is 0x7F.

**Attribute: mtb0**

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**Fullname:** Metallic Test Bus _ mtb0.

**Attribute Description** This attribute is divided into sub-attributes mtb0.module and mtb0.circuit. For each MSGS, 'mtb0' should be (0,0). For each MSGS PC community, 'mtb0' should be set to (0,0).

In CM1 and CM2:
For each TRCU or TRCU2, 'mtb0' should be set to (0,#GLNULCKT).

In CM2:
For each CMCU and TMSU, 'mtb0' should be set to zero.
For each alarm and status circuit (215A CM) in an RSM, ORM, or TRM, 'mtb0' should be (0,0). For each RAU in an RSM, ORM, or TRM, 'mtb0' should be (0,0). and mtb0.circuit. For each MSGS, mtb0 should be (0,#GLNULCKT).
For each MSGS PC community, mtb0 should be set to (0,#GLNULCKT). mtb0 should be set to (0, #GLNULCKT). ORM, or TRM, mtb0 should be (0,#GLNULCKT). mtb0 should be (0,#GLNULCKT).

**Attribute: mtb0.circuit**

**Fullname:** circuit.

**Attribute Description** Circuit.

**Attribute: mtb0.module**

**Fullname:** Module

**Attribute Description** Module.

**Attribute: mtb1**

**Fullname:** Metallic Test Bus _ mtb1.

**Attribute Description** This attribute is divided into sub-attributes mtb1.module and mtb1.circuit. For each MSGS, mtb1 should be (0,#GLNULCKT).
For each MSGS PC community, mtb1 should be set to (0,#GLNULCKT).
mtb1 should be set to (0,#GLNULCKT).
ORM, or TRM, mtb1 should be (0,#GLNULCKT).
mtb1 should be (0,#GLNULCKT).

In CM1 and CM2:
For each TRCU or TRCU2, 'mtb1' should be set to (0,#GLNULCKT).

**Attribute: mtb1.circuit**

**Fullname:** circuit.

**Attribute Description** Circuit.

**Attribute: mtb1.module**

**Fullname:** Module

**Attribute Description** Module.

**Attribute: mtb[*]_idx**

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**Fullname:** Metallic Test Bus 0/1 circuit InDeX

**Attribute Description** This is the Metallic Test Bus 0 or 1 circuit index. For each Alarm and Status Circuit (215A CM) or Remote Alarm Unit (RAU/OAU) in an RSM, ORM, or TRM, mtb(0:1)_idx should be #GLNULCX.

**Attribute: mtb[*]_msu**

**Fullname:** Metallic Test Bus 0/1/Metallic Service Unit unit number

**Attribute Description** This the unit number of the Metallic Service Unit (MSU) to which the Metallic Test Bus (MTB) 0 or 1 terminates. For each Alarm and Status Circuit (215A CM) or Remote Alarm Unit (RAU/OAU) in a RSM, ORM, or TRM, mtb(0:1)_msu should be 0.

**Defines:**
"db/DMcircuit.h",
"db/DMcktindx.h",
"db/DMclidef.h"

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# RC_LPHOL

## 1. Description

ISDN relation that stores the logical port holes for circuit, packet, and default service ISDN lports.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 22500 |
| expected number of tuples | 150 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 1024 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| index length | 9 |
| i2 index to intermediate page | 7 |
| ks key store | DBNO |
| density | 10 |
| permutation type | perm |

## 3. Field Layout

```
RC_LPHOL    relid = 866   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     module      DMMODULE     (ushort: 8)     <--- key, not stored
 (a) lpt_type    DMLPT_TYPE   (enum: 2)     <--- key, not stored
     lport       DMLPORT      (ushort: 16)     <--- key, not stored
     succ        DMLPORT      (ushort: 16)
         User and Compacted Tuple Layout   RC_LPHOL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |   |           |                               |
  0 |     module    | a |***********|             lport             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              succ             |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     succ        DMLPORT      (ushort: 16)
           Stored Tuple Layout     RC_LPHOL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              succ             |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLrc_lphol

**Relation Description**
ISDN logical port holes for lportI.

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SDN relation that stores the logical port holes for the ISDN lports (LPT_TYPE=LPT_ISDN, LPT_PKT, and LPT_BFG). These three types of lports are used for circuit SOPs, packet SOPs, and default service BFGs, respectively. Holes for the analog lports (LPT_TYPE=LPT_OTHER) are kept in relation RLrc_alpho.

Recent Change administers four separate link lists for each LPT_TYPE on each SM. For each LPT_TYPE, indices are distributed over these four link lists or queues. Reference population rules for RLrc_qidx for a strategic overview of how four linked list are maintained. RC adds a member to a link list when it is no longer needed. When an index is required, RC retrieves members from the link lists. If the link lists are empty then the next index is taken from RLrc_qidx.index.

NOTE - only member tuples are kept in this relation. The starting point for a link list is located in the RLrc_qidx relation (RLrc_qidx.succ attribute)

For new offices, ODA will sequentially assign lports from 1 to 8191 for each SM and populate RLrc_qidx.lport with the next lport to use for each SM. RLrc_qidx.qtyp will differentiate tuples for different types of lports.

Empty queue: Read module x, qtyp=LPORT, PKT_LPORT, or DFLT_LPORT, and qid y in RLrc_qidx. If RLrc_qidx.succ is zero, then queue y is empty.

Members on list: Read module x, qtyp=LPORT, PKT_LPORT, or DFLT_LPORT and qid y in RLrc_qidx. The RLrc_qidx.succ attribute points to the first member on the link list in RLrc_lphol. Read tuple in RLrc_lphol with mod=x, lpt_type=LPT_ISDN, LPT_PKT, or LPT_BFG (corresponding to RLrc_qidx.qtyp) and lport=RCrc_qidx.succ to obtain the first member. The first member has succ = 0 if it is the only member, otherwise it points to the next member in the link list. A succ attribute of 0 indicates the end of the link list. The attribute index in the relation RLrc_qidx defines the highest used lport index value if all four queues are empty (add 1 for the next available index).

**Attribute: module**

**Fullname:** Switching module

**Attribute Description** On each module four separate link lists exist for each LPT_TYPE.

**Attribute: lpt_type**

**Fullname:** Logical port type

**Attribute Description** There is a separate set of four queues for ISDN circuit lports, packet lports, and default service BFG lports.

**Attribute: lport**

**Fullname:** Logical port number

**Attribute Description** Sequentially assigned number used to cause a dense packing of lport keyed ISDN relations. Key value is the head cell of the link list for each SM. See RLfc_line.lport & RLgroup_port.lport (circuit lports), RLodpsop (packet lports), RLdslequip.dflt_lport (default service BFG lports), and RLrc_qidx for more information.

**Attribute: succ**

**Fullname:** Successor lport

**Attribute Description** Key pointer to next member of the link list or 0 to indicate no or last member on the list.

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# RC_MMINF

## 1. Description

MLHG member administrator.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected number of tuples | 9 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| i2 index into intermediate page | 7 |
| ks key store | AUTO |

## 3. Field Layout

```
RC_MMINF    relid = 917   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCDATA
     mlhg        DMGRUPNM     (ushort: 11)  <--- key, not stored
     mem         DMMEM        (ushort: 12)
 (a) mbs         DMBOOL       (enum: 1)
 (b) rbv         DMBOOL       (enum: 1)
     att_grp     DMGRUPNM     (ushort: 11)
         User and Compacted Tuple Layout   RC_MMINF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
  0 |         mlhg          |***************************************|
    |---------------+---------------+---------------+---------------|
    |                         | | |   |                       |         |
  4 |          mem            |a|b|***|       att_grp         |*********|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     mem         DMMEM        (ushort: 12)
 (a) mbs         DMBOOL       (enum: 1)
 (b) rbv         DMBOOL       (enum: 1)
     att_grp     DMGRUPNM     (ushort: 11)
           Stored Tuple Layout     RC_MMINF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                         | | |   |                       |         |
  0 |          mem            |a|b|***|       att_grp         |*********|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLrc_mminf

**Relation Description**
Recent change (RC) multi-line hunt group information.

This relation contains the RC information for a multiple line hunt group (MLHG).

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There will be a tuple for each MLHG which has an attendant MLHG associated with it (that is, this MLHG itself is controlled by an ATT MLHG or an ATT Remote Busy Verify trunk). The key, mem will always be 0 (represent the whole group). The attribute, mbs will always be DBNO.

**Attribute: mlhg**

**Fullname:** Multiple Line Hunt Group number

**Attribute Description** This key specifies the multiple line hunt group number which hunt type is RTH_CIRCULAR, RTH_LGCIR, RTH_REGULAR, RTH_LGREG, RTH_UCD, RTH_LGUCD, RTH_PPSMHG, or RTH_PPLMHG and is controlled by the attendant multiple line hunt group.

**Attribute: mem**

**Fullname:** Multiple Line Hunt Group member number

**Attribute Description** This key specifies the member number of this MLHG. It will always be 0 because this relation is used to represent the whole MLHG.

**Attribute: mbs**

**Fullname:** may be shared flag

**Attribute Description** This attribute indicates that this is a shared DN or not, it will always be DBNO.

**Attribute: rbv**

**Fullname:** Remote Busy Verify indication flag

**Attribute Description** The rbv attribute will indicate that the multiline hunt group DN is Remote Busy Verifiable. IF rbv=DBYES then the value in the att_grp attribute will represent the remote busy verify trunk (RBVT) group number associated with the multiline hunt group.

**Attribute: att_grp**

**Fullname:** Attendant Multiple Line Hunt Group number

**Attribute Description** When the rbv attribute is set to DBNO, this attribute contains the attendant MLHG number which is associated with the MLHG found in the 'mlhg' attribute. Otherwise, If rbv=DBYES then this attribute contains the ISAT busy verify trunk (BVT) group number.

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# RC_MSD

## 1. Description

Disabled status of mfc type measurements.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 14 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 1 |
| permutation type | un_perm |

## 3. Field Layout

```
RC_MSD      relid = 510   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
 (a) msmfctype   DMMSMFCTYP   (enum: 4)  <--- key
 (b) dis         DMBOOL       (enum: 1)
        User and Compacted Tuple Layout     RC_MSD
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |       | |                                                     |
 0  |   a   |b|*****************************************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
 (a) msmfctype   DMMSMFCTYP   (enum: 4)  <--- key
 (b) dis         DMBOOL       (enum: 1)
          Stored Tuple Layout   RC_MSD
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |       | |                                                     |
 0  |   a   |b|*****************************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLrc_msd

**Relation Description**
RC Measurements status.

This relation indicates the enabled/disabled status of the BRCS measurements types.

**Attribute: msmfctype**

**Fullname:** BRCS measurements type.

**Attribute Description** Identifies a type of BRCS measurement. This is the key, each of the possible enumerated keys are always present.

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**Attribute: dis**

**Fullname:** Disabled?

**Attribute Description** Are measurements of this type disabled?

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# RC_MSUSR

## 1. Description

This relation contains the message service groups list.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 500 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 1024 |
| permutation type | un_perm |

## 3. Field Layout

```
RC_MSUSR    relid = 1053  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     mdc_no      DMGRUPNM     (ushort: 13)     <--- key
     cdn_cnt     DMUNS4       (ushort: 4)
     rdn_cnt     DMUNS4       (ushort: 4)
     dummy       DMUNS8       (ushort: 8)
     mds_id00    DMMDSGRPN    (ushort: 10)
 (a) nxbcid00    DMUNS3       (ushort: 3)
 (b) deluxe00    DMBOOL       (enum: 1)
     servid00    DMUNS8       (ushort: 8)
     mds_id01    DMMDSGRPN    (ushort: 10)
 (c) nxbcid01    DMUNS3       (ushort: 3)
 (d) deluxe01    DMBOOL       (enum: 1)
     servid01    DMUNS8       (ushort: 8)
     mds_id02    DMMDSGRPN    (ushort: 10)
 (e) nxbcid02    DMUNS3       (ushort: 3)
 (f) deluxe02    DMBOOL       (enum: 1)
     servid02    DMUNS8       (ushort: 8)
     mds_id03    DMMDSGRPN    (ushort: 10)
 (g) nxbcid03    DMUNS3       (ushort: 3)
 (h) deluxe03    DMBOOL       (enum: 1)
     servid03    DMUNS8       (ushort: 8)
     mds_id04    DMMDSGRPN    (ushort: 10)
 (i) nxbcid04    DMUNS3       (ushort: 3)
 (j) deluxe04    DMBOOL       (enum: 1)
     servid04    DMUNS8       (ushort: 8)
     mds_id05    DMMDSGRPN    (ushort: 10)
 (k) nxbcid05    DMUNS3       (ushort: 3)
 (l) deluxe05    DMBOOL       (enum: 1)
     servid05    DMUNS8       (ushort: 8)
     mds_id06    DMMDSGRPN    (ushort: 10)
 (m) nxbcid06    DMUNS3       (ushort: 3)
 (n) deluxe06    DMBOOL       (enum: 1)
     servid06    DMUNS8       (ushort: 8)
     mds_id07    DMMDSGRPN    (ushort: 10)
 (o) nxbcid07    DMUNS3       (ushort: 3)
 (p) deluxe07    DMBOOL       (enum: 1)
```

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```
    servid07    DMUNS8       (ushort: 8)
    mds_id08    DMMDSGRPN    (ushort: 10)
(q) nxbcid08    DMUNS3       (ushort: 3)
(r) deluxe08    DMBOOL       (enum: 1)
    servid08    DMUNS8       (ushort: 8)
    mds_id09    DMMDSGRPN    (ushort: 10)
(s) nxbcid09    DMUNS3       (ushort: 3)
(t) deluxe09    DMBOOL       (enum: 1)
    servid09    DMUNS8       (ushort: 8)
    mds_id10    DMMDSGRPN    (ushort: 10)
(u) nxbcid10    DMUNS3       (ushort: 3)
(v) deluxe10    DMBOOL       (enum: 1)
    servid10    DMUNS8       (ushort: 8)
    mds_id11    DMMDSGRPN    (ushort: 10)
(w) nxbcid11    DMUNS3       (ushort: 3)
(x) deluxe11    DMBOOL       (enum: 1)
    servid11    DMUNS8       (ushort: 8)
    mds_id12    DMMDSGRPN    (ushort: 10)
(y) nxbcid12    DMUNS3       (ushort: 3)
(z) deluxe12    DMBOOL       (enum: 1)
    servid12    DMUNS8       (ushort: 8)
    mds_id13    DMMDSGRPN    (ushort: 10)
(A) nxbcid13    DMUNS3       (ushort: 3)
(B) deluxe13    DMBOOL       (enum: 1)
    servid13    DMUNS8       (ushort: 8)
    mds_id14    DMMDSGRPN    (ushort: 10)
(C) nxbcid14    DMUNS3       (ushort: 3)
(D) deluxe14    DMBOOL       (enum: 1)
    servid14    DMUNS8       (ushort: 8)
    mds_id15    DMMDSGRPN    (ushort: 10)
(E) nxbcid15    DMUNS3       (ushort: 3)
(F) deluxe15    DMBOOL       (enum: 1)
    servid15    DMUNS8       (ushort: 8)
    mds_id16    DMMDSGRPN    (ushort: 10)
(G) nxbcid16    DMUNS3       (ushort: 3)
(H) deluxe16    DMBOOL       (enum: 1)
    servid16    DMUNS8       (ushort: 8)
    mds_id17    DMMDSGRPN    (ushort: 10)
(I) nxbcid17    DMUNS3       (ushort: 3)
(J) deluxe17    DMBOOL       (enum: 1)
    servid17    DMUNS8       (ushort: 8)
        User, Compacted and Stored Tuple Layout   RC_MSUSR
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                           |     |       |       |               |
 0 |          mdc_no           |*****|cdn_cnt|rdn_cnt|     dummy     |
   |---------------+---------------+---------------+---------------|
   |                     |     | |   |               |               |
 4 |      mds_id00       |  a  |b|***|    servid00   |***************|
   |---------------+---------------+---------------+---------------|
   |                     |     | |   |               |               |
 8 |      mds_id01       |  c  |d|***|    servid01   |***************|
   |---------------+---------------+---------------+---------------|
```

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```
    |                   |      | |   |                |                |
 12 |      mds_id02     |  e   |f|***|    servid02    |****************|
    |-------------------+------+-+---+----------------+----------------|
    |                   |      | |   |                |                |
 16 |      mds_id03     |  g   |h|***|    servid03    |****************|
    |-------------------+------+-+---+----------------+----------------|
    |                   |      | |   |                |                |
 20 |      mds_id04     |  i   |j|***|    servid04    |****************|
    |-------------------+------+-+---+----------------+----------------|
    |                   |      | |   |                |                |
 24 |      mds_id05     |  k   |l|***|    servid05    |****************|
    |-------------------+------+-+---+----------------+----------------|
    |                   |      | |   |                |                |
 28 |      mds_id06     |  m   |n|***|    servid06    |****************|
    |-------------------+------+-+---+----------------+----------------|
    |                   |      | |   |                |                |
 32 |      mds_id07     |  o   |p|***|    servid07    |****************|
    |-------------------+------+-+---+----------------+----------------|
    |                   |      | |   |                |                |
 36 |      mds_id08     |  q   |r|***|    servid08    |****************|
    |-------------------+------+-+---+----------------+----------------|
    |                   |      | |   |                |                |
 40 |      mds_id09     |  s   |t|***|    servid09    |****************|
    |-------------------+------+-+---+----------------+----------------|
    |                   |      | |   |                |                |
 44 |      mds_id10     |  u   |v|***|    servid10    |****************|
    |-------------------+------+-+---+----------------+----------------|
    |                   |      | |   |                |                |
 48 |      mds_id11     |  w   |x|***|    servid11    |****************|
    |-------------------+------+-+---+----------------+----------------|
    |                   |      | |   |                |                |
 52 |      mds_id12     |  y   |z|***|    servid12    |****************|
    |-------------------+------+-+---+----------------+----------------|
    |                   |      | |   |                |                |
 56 |      mds_id13     |  A   |B|***|    servid13    |****************|
    |-------------------+------+-+---+----------------+----------------|
    |                   |      | |   |                |                |
 60 |      mds_id14     |  C   |D|***|    servid14    |****************|
    |-------------------+------+-+---+----------------+----------------|
    |                   |      | |   |                |                |
 64 |      mds_id15     |  E   |F|***|    servid15    |****************|
    |-------------------+------+-+---+----------------+----------------|
    |                   |      | |   |                |                |
 68 |      mds_id16     |  G   |H|***|    servid16    |****************|
    |-------------------+------+-+---+----------------+----------------|
    |                   |      | |   |                |                |
 72 |      mds_id17     |  I   |J|***|    servid17    |****************|
    |-------------------+------+-+---+----------------+----------------|
      ( 76 bytes )
domain alRC_MSUSR struct  (5 sub-attributes)
         mdc_no      .61.fake     (ushort: 13)
         cdn_cnt     .62.fake     (ushort: 4)
         rdn_cnt     .63.fake     (ushort: 4)
         dummy       .64.fake     (ushort)
```

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```
        mds_slot    .65.fake     (array [ 18 ] of al2RC_MSUSR )
            mds_id      .58.fake     (ushort: 10)
(a)         idx_bcid    .59.fake     (ushort: 3)
(b)         deluxe      .0fake       (enum)
            servid      .60.fake     (ushort)

        Structure Layout    alRC_MSUSR
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                           |     |       |       |               |
 0 |           mdc_no          |*****|cdn_cnt|rdn_cnt|     dummy     |
   |===============+========= mds_slot[0] =========+===============|
   |                       |     | |   |               |               |
 4 |       mds_id      |  a  |b|***|     servid    |***************|
   |===============+========= mds_slot[1] =========+===============|
   |                       |     | |   |               |               |
 8 |       mds_id      |  a  |b|***|     servid    |***************|
   |===============+========= mds_slot[2] =========+===============|
   |                       |     | |   |               |               |
12 |       mds_id      |  a  |b|***|     servid    |***************|
   |===============+========= mds_slot[3] =========+===============|
   |                       |     | |   |               |               |
16 |       mds_id      |  a  |b|***|     servid    |***************|
   |===============+========= mds_slot[4] =========+===============|
   |                       |     | |   |               |               |
20 |       mds_id      |  a  |b|***|     servid    |***************|
   |===============+========= mds_slot[5] =========+===============|
   |                       |     | |   |               |               |
24 |       mds_id      |  a  |b|***|     servid    |***************|
   |===============+========= mds_slot[6] =========+===============|
   |                       |     | |   |               |               |
28 |       mds_id      |  a  |b|***|     servid    |***************|
   |===============+========= mds_slot[7] =========+===============|
   |                       |     | |   |               |               |
32 |       mds_id      |  a  |b|***|     servid    |***************|
   |===============+========= mds_slot[8] =========+===============|
   |                       |     | |   |               |               |
36 |       mds_id      |  a  |b|***|     servid    |***************|
   |===============+========= mds_slot[9] =========+===============|
   |                       |     | |   |               |               |
40 |       mds_id      |  a  |b|***|     servid    |***************|
   |===============+========  mds_slot[10] ========+===============|
   |                       |     | |   |               |               |
44 |       mds_id      |  a  |b|***|     servid    |***************|
   |===============+========  mds_slot[11] ========+===============|
   |                       |     | |   |               |               |
48 |       mds_id      |  a  |b|***|     servid    |***************|
   |===============+========  mds_slot[12] ========+===============|
   |                       |     | |   |               |               |
52 |       mds_id      |  a  |b|***|     servid    |***************|
   |===============+========  mds_slot[13] ========+===============|
   |                       |     | |   |               |               |
56 |       mds_id      |  a  |b|***|     servid    |***************|
```

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```
    |===============+========  mds_slot[14] ========+===============|
    |                    |      | |   |               |               |
 60 |       mds_id       |  a   |b|***|     servid    |***************|
    |===============+========  mds_slot[15] ========+===============|
    |                    |      | |   |               |               |
 64 |       mds_id       |  a   |b|***|     servid    |***************|
    |===============+========  mds_slot[16] ========+===============|
    |                    |      | |   |               |               |
 68 |       mds_id       |  a   |b|***|     servid    |***************|
    |===============+========  mds_slot[17] ========+===============|
    |                    |      | |   |               |               |
 72 |       mds_id       |  a   |b|***|     servid    |***************|
    |===============+===============+===============+===============|
       ( 76 bytes )
```

## 4. Population Rules for RLrc_msusr

**Relation Description**
Message Service Groups List.

This relation joins RLmdc_grp.G and RLmds_grp.G to support a verify only RC/V view 4.36.

Note that the OCDN COUNT is derived by subtracting RLrc_msusr.rdn_cnt from RLrc_msusr.cdn_cnt. This count (ocdn) is displayed on RC view 4.36 along with the value of RLrc_msusr.rdn_cnt.

**Attribute: mdc_no**

**Fullname:** Message Desk Center Number

**Attribute Description** This attribute points to a valid Message Desk Center in the relation RLmdc_grp.

**Attribute: cdn_cnt**

**Fullname:** Dependent DNs with a non-null value for client TN type.

**Attribute Description** This attribute serves as a counter for the number of dependent DNs with a non-null value for RLrt_dntran.client_typ. This counter is 4 bits and allows a maximum of 15 group dependent DNs. Whenever cdn_cnt is greater than 0, changing an MSC to non-MSC MLHG service is not allowed.

**Attribute: rdn_cnt**

**Fullname:** Dependent DNs with client TN type set to MSS_RDN.

**Attribute Description** This attribute serves as a counter to indicate the number of dependent DNs with RLrt_dntran.client_typ set to MSS_RDN.

This counter is designed for RC/V to provide a mechanism for RC/V to prevent users from changing MSC type from 'Deluxe' to 'Basic', provided that rdn_cnt is greater than 0. In other words, if rdn_cnt is greater than 0, the associated RLmdc_grp.ap_id must not equal 0.

**Attribute: dummy**

**Fullname:** dummy (not used)

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**Attribute Description** dummy (not used)

**Attribute: mds_id00 through mds_id17**

**Fullname:** Message Service Group I.D.

**Attribute Description** This attribute points to a valid Message Desk Service group number in the relation RLmds_grp.

**Attribute: nxbcid00 through nxbcid17**

**Fullname:** Index of BCID (business customer ID) in RLmdc_grp

**Attribute Description** Used as an index to gcsrid(0-5) in RLmdc_grp.

**Attribute: deluxe00 through deluxe17**

**Fullname:** Deluxe service flag

**Attribute Description** Indicates whether group has deluxe service or not. If this value is DBYES, then RLmds_grp.ap_id must have a non-zero value; if DBNO, then RLmds_grp.ap_id must be zero.

**Attribute: servid00 through servid17**

**Fullname:** Service Identifier

**Attribute Description** Identifies the MSS that is providing message service for an MSS group when more than one MSS group resides on an Applications Processor (AP).

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# RC_MULTIDN

## 1. Description

This relation keeps track of all the Directory Numbers associated with a port. The port must belong to a member of a multiline hunt group. This relation is only populated for ports that have more than one DN. It is keyed by the noc and last four digits of the DN.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 15000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| head table size | 2048 |
| data page size | 512 |
| page level | 0 |
| foldtype | DBGC31 |

## 3. Field Layout

```
RC_MULTIDN  relid = 151   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCDATA
     locdn       DMLOCDN      (struct)     <--- key
         noc         DMNOC        (ushort: 8)
         digits      DMLOCDIG     (array [ 4 ] of char )
     port        DMPORT       (ushort)
     module      DMMODULE     (ushort: 8)
     party       DMPARTY      (ushort: 4)
     nextlocdn   DMLOCDN      (struct)
         noc         DMNOC        (ushort: 8)
         digits      DMLOCDIG     (array [ 4 ] of char )
         User, Compacted and Stored Tuple Layout RC_MULTIDN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============ locdn ============+===============|
    |                |                |                               |
  0 |****************|      noc       |             digits            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                |                |                               |
  4 |              digits             |*******************************|
    |===============+===============+===============+===============|
    |                                 |                |       |      |
  8 |               port              |     module     | party |*******|
    |===============+========== nextlocdn ==========+===============|
    |                |                |                               |
 12 |****************|      noc       |             digits            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                 |                               |
 16 |              digits             |*******************************|
    |===============+===============+===============+===============|
       ( 20 bytes )
```

## 4. Population Rules for RLrc_multidn

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**Relation Description**
RLrc_multidn.

This relation keeps track of all the Directory Numbers associated with:
1. A member of a multiline hunt group or the subgroup of a MUPH or ISAT group that has multiple directory numbers. If the multiline hunt group is for Modem Pooling, then multiple dns are not allowed.
2. An individual analog line that has the Multiple Directory Numbers Per Line with Distinctive Ringing feature.
3. It is keyed by the noc and last four digits of the DN.

This relation is a series of linked lists where the initial tuple in the list represents the base/master TN for the line. The master tuple points to another tuple in the list which may point to another tuple. The linked list ends when the next TN is set to 0. There is no limit (other than relation size) on the length of the list, but this list should have at least 2 members (or it wouldn't be a multiple DN line).

**Attribute: locdn**

**Fullname:** Local Directory Number

**Attribute Description** This attribute consists of noc (Normalized Office Code) and the last four digits of a directory number. This gets populated when more than one dn is assigned to a member of a multiline hunt group, to a subgroup of a MUPH group or to an individual analog line.

**Attribute: locdn.noc**

**Fullname:** Normalized Office Code

**Attribute Description** It represents the NOC associated with the DN.

**Attribute: locdn.digits**

**Fullname:** Last 4 digits of the Directory Number

**Attribute Description** It represents the last 4 digits of the DN.

**Attribute: port**

**Fullname:** port

**Attribute Description** Indicates the port associated with this DN.

**Attribute: party**

**Fullname:** Party Value

**Attribute Description** Indicates the party value associated with this DN.

**Attribute: module**

**Fullname:** Switching Module

**Attribute Description** The module that the port is on.

**Attribute: nextlocdn**

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**Fullname:** Next Local Directory Number

**Attribute Description** It is the pointer to the next tuple (dn) that also belongs to the same MLHG member, subgroup of the MUPH group or pots line. If there is no next multiple dn value, the attribute is null. If this attribute is not null, then there must also be a tuple in this relation keyed by this noc and digits.

**Attribute: nextlocdn.noc**

**Fullname:** Normalized Office Code

**Attribute Description** It represents the Normalized Office Code.

**Attribute: nextlocdn.digits**

**Fullname:** Last 4 digits of Next Local Directory Number

**Attribute Description** It represents the last 4 digits if the next local directory number.

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# RC_ODB

## 1. Description

This relation contains data for EBPS feature to select PH and PH Channel from available units with matching band.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 491520 |
| expected tuples in relation | 5 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
RC_ODB      relid = 1140  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCDATA
     module      DMMODULE     (ushort: 8)     <--- key, not stored
     shelf       DMUNS3       (ushort: 3)     <--- key, not stored
     lph         DMUNS4       (ushort: 4)     <--- key, not stored
     ph_cn       DMPHCN       (uchar: 7)     <--- key, not stored
     band        DMUCHAR      (uchar)
         User and Compacted Tuple Layout     RC_ODB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |     |       | |             |                 |
  0 |     module    |shelf|  lph  |*|    ph_cn    |*****************|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  4 |      band     |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     band        DMUCHAR      (uchar)
           Stored Tuple Layout   RC_ODB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |      band     |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLrc_odb

**Relation Description**
Recent change assignable PH+CNs.

This relation is used by Recent Change to select an available PH and Channel for the 'On Demand B Packet' (ODB) feature. If a PH and Channel were entered via RC then RC will look for that PH and Channel in this relation. If no match is found it is an error. If a tuple is found that matches, RC will remove it. On the other hand if no PH and Channel were entered on the Recent Change, when adding ODB, then RC will search RLrc_tur for the least loaded PH shelf. RC will then search this relation for a match on that shelf. If none is found RC returns to RLrc_tur for the

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next least loaded PH shelf. When there is a match in this relation, RC will remove that tuple and use the PH and Channel it found to populate the Packet Switching relations (such as RLpsx25ln).

***NOTE:*** When ODB users are to be added to the switch, office personnel should first select the PH/PH-channels that will be used for this purpose, because once selected for ODB use they cannot be used for any other purpose or even shared for any other purpose until this is undone. All arrangement for load balancing can be used whereby, for example, one heavy user, a few moderate users, or several light users would be put on the same PH. These PH/PH-channels would then be reserved for ODB use by creating tuples in the relation RLrc_odb. When the ODB feature is assigned to a user, a PH/PH-channel is chosen (via switch personnel selection or by an algorithm executed by the switch) and the corresponding tuple is then removed for RLrc_odb. The band value is stored in a new tuple in RLodpsop created for this user, and the attribute odb_usr in the appropriate RLrc_tur is incremented. When the ODB feature is taken away from this user, the odb_usr attribute is decremented, a tuple of RLrc_odb is created, and a tuple of RLodpsop is deleted.

As of 5E9, X.25 Packet Switching will no longer be supported by the PH2 Access Image. X.25 ports will only be supported on PH3's. Since the ODB feature will now only be supported on PH3's, PH/PH-channels may only be reserved on PH3's.

Note: This relation is populated only for the first PH channel of an ODB ISCN; here are the characteristics of an ODB ISCN:

- An ODB ISCN is identified by the first PH channel used.
- An ODB ISCN represents four consecutive PH channels.
- The first ODB channel must have a number evenly divisible by four (such as 0, 4, 8, etc.).

**Attribute: module**

**Fullname:** SM module number

**Attribute Description** Identifies a specific SM for an ISLU

**Attribute: shelf**

**Fullname:** PSU Shelf number

**Attribute Description** This is the shelf component of 'ph_number'. It is used to indicate the PSU shelf a PH and Channel are on. It is related to the shelf field in RLrc_tur.

**Attribute: lph**

**Fullname:** Logical PH number

**Attribute Description** Logical PH number component of a 'ph_number'. (shelf << 4) + lph = ph_number

**Attribute: ph_cn**

**Fullname:** Ph channel number

**Attribute Description** PH channel number available for assignment to the ODB feature user.

**Attribute: band**

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**Fullname:** Usage classes

**Attribute Description** For Service Provide to engineer Users among PH's. This field is used to restrict usage of PHs to select users. When ODB is assigned to a DSL user, the Service Provider also can enter a band value. When RC finds a tuple in this relation it can use it and will compare the tuples 'band' with the entered 'band' and select the tuple if they match. If they don't RC will select another tuple until one is found that matches. This field is copied to RLodpsop when this relation tuple is deleted and copied back when RLodpsop is deleted.

***NOTE:*** The domain used following (DMuchar) was chose for execution efficiency. Reason being: only 4 bits needed.

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# RC_OEINFO

## 1. Description

Administrative information for line ports.
This is a virtual update relation which depicts the stored structure of virtual relation RC_OEINFO. The root storage relation is RLoeinf_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation RC_OEINFO.

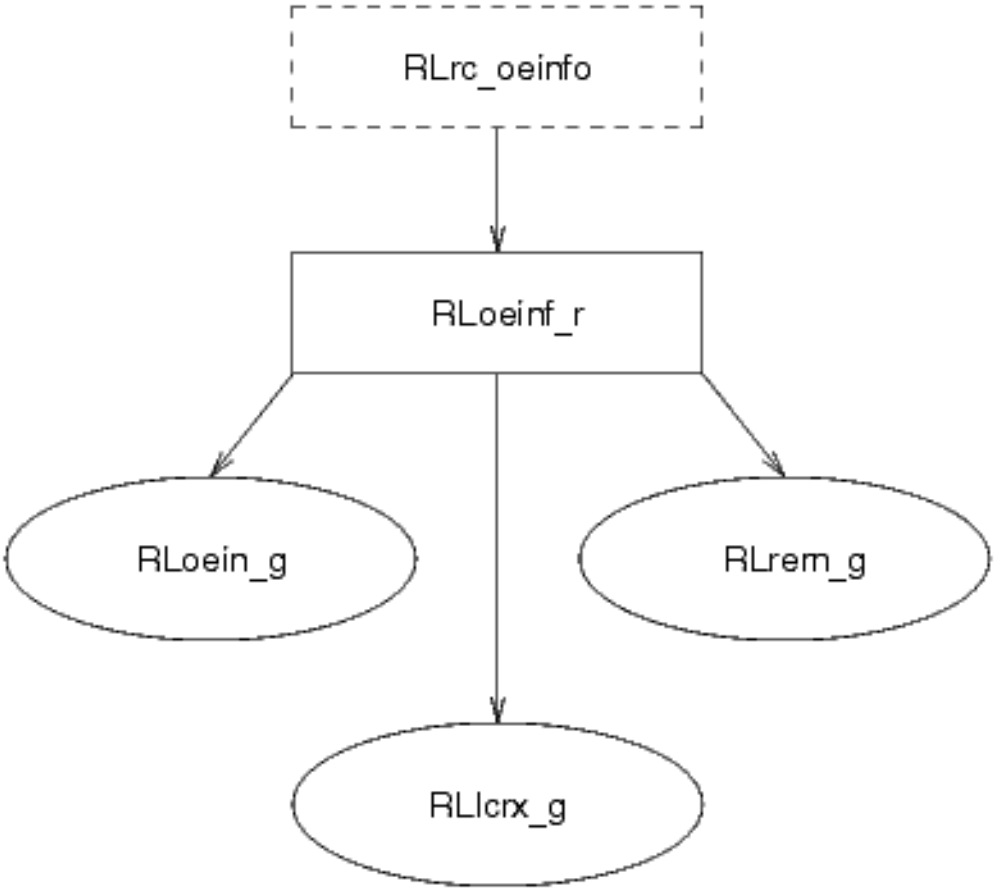


**Figure 1 Virtual Relation RC_OEINFO**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
RC_OEINFO   relid = 299   DBSTATIC   DBACC_OPV   DBNOTODD  LP      RCMAP
     rem          DMTEXT       (array [ 16 ] of char )
     mkbusy       DMPORT       (ushort)
     rmkbusy      DMPORT       (ushort)
     att_grp      DMGRUPNM     (ushort: 13)
     lsf_cnt      DMUNS9       (ushort: 9)
```

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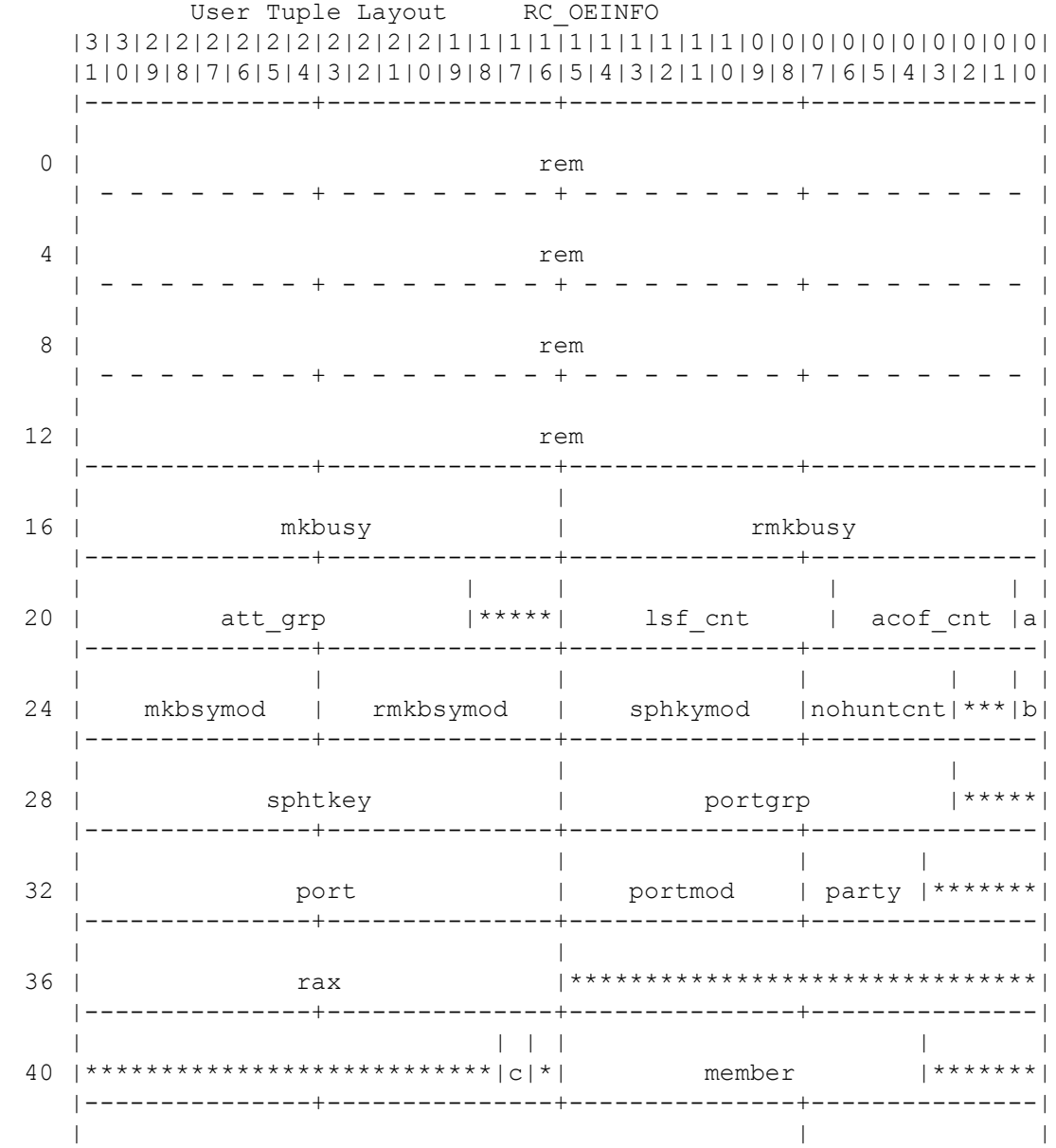
```
    acof_cnt    DMUNS6       (ushort: 6)
(a) rbv         DMBOOL       (enum: 1)
    mkbsymod    DMMODULE     (ushort: 8)
    rmkbsymod   DMMODULE     (ushort: 8)
    sphkymod    DMMODULE     (ushort: 8)
    nohuntcnt   DMUNS5       (ushort: 5)
(b) porttyp     DMPTYPE      (enum: 1)
    sphtkey     DMPORT       (ushort)
    portgrp     DMGRUPNM     (ushort: 13)
    port        DMPORT       (ushort)     <--- key
    portmod     DMMODULE     (ushort: 8)     <--- key
    party       DMPARTY      (ushort: 4)     <--- key
    rax         DMINDEX      (ushort)     <--- compacted
(c) esl         DMBOOL       (enum: 1)
    member      DMMEM        (ushort: 12)
    lcc         DMLCC        (array [ 3 ] of char )
```

User Tuple Layout RC_OEINFO

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```
44 |                      lcc                      |***************|
   |---------------+---------------+---------------+---------------|
     ( 48 bytes )
    rem          DMTEXT       (array [ 16 ] of char )
    mkbusy       DMPORT       (ushort)
    rmkbusy      DMPORT       (ushort)
    att_grp      DMGRUPNM     (ushort: 13)
    lsf_cnt      DMUNS9       (ushort: 9)
    acof_cnt     DMUNS6       (ushort: 6)
(a) rbv          DMBOOL       (enum: 1)
    mkbsymod     DMMODULE     (ushort: 8)
    rmkbsymod    DMMODULE     (ushort: 8)
    sphkymod     DMMODULE     (ushort: 8)
    nohuntcnt    DMUNS5       (ushort: 5)
(b) porttyp      DMPTYPE      (enum: 1)
    sphtkey      DMPORT       (ushort)
    portgrp      DMGRUPNM     (ushort: 13)
    port         DMPORT       (ushort)     <--- key
    portmod      DMMODULE     (ushort: 8)     <--- key
    party        DMPARTY      (ushort: 4)     <--- key
    rax          DMRAX        (ushort: 7)     <--- compacted
(c) esl          DMBOOL       (enum: 1)
    member       DMMEM        (ushort: 12)
    lcc          DMLCC        (array [ 3 ] of char )
       Compacted and Stored Tuple Layout RC_OEINFO
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                             rem                               |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 4 |                             rem                               |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 8 |                             rem                               |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
12 |                             rem                               |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |             mkbusy            |            rmkbusy            |
   |---------------+---------------+---------------+---------------|
   |                       |     |                 |           | |
20 |         att_grp       |*****|     lsf_cnt     |  acof_cnt |a|
   |---------------+---------------+---------------+---------------|
   |               |               |               |         |   | |
24 |    mkbsymod   |   rmkbsymod   |    sphkymod   |nohuntcnt|***|b|
   |---------------+---------------+---------------+---------------|
   |                               |                         |     |
28 |            sphtkey            |         portgrp         |*****|
   |---------------+---------------+---------------+---------------|
   |                               |               |       |       |
32 |              port             |    portmod    | party |*******|
```

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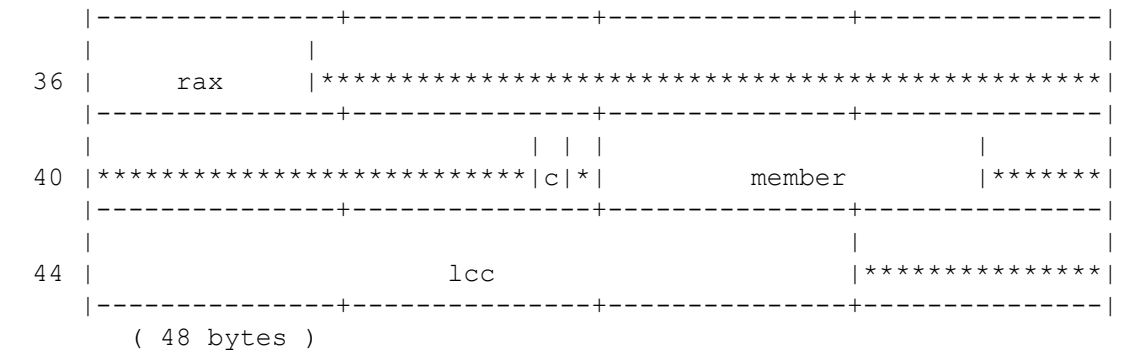


## 4. Population Rules for RLrc_oeinfo

**Relation Description**
Recent change origination equipment information.

This relation contains administrative information for line ports.

This relation is used for Recent Change. The relation contain origination information per line.

**Attribute: port**

**Fullname:** Global port name (SM number not included).

**Attribute Description** This is the logical port name of the line being assigned.

**Attribute: portmod**

**Fullname:** Module number on which the global port is defined.

**Attribute Description** This attribute is SM on which the logical port is assigned.

**Attribute: party**

**Fullname:** Party Identifier

**Attribute Description** This attribute indicates the user number for this port. The range on this value may be from 0 thru 9 depending on the type of service class and ringing allowed. For mutli-party service this attribute indicates the type of ringing that can be done per that user.

**Attribute: lcc**

**Fullname:** Line Class Code

**Attribute Description** The lcc and rax is used to determine the class of service that is assigned to this logical port. For further details see the population rules for RLrc_lcc.p.

**Attribute: rax**

**Fullname:** Rate center

**Attribute Description** The lcc and rax is used to determine the class of service that is assigned to this logical port. For further details see the population rules for RLrc_lcc.p.

**Attribute: rem**

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**Fullname:** Remarks

**Attribute Description** This attribute is used for a character string for remarks.

**Attribute: esl**

**Fullname:** Essential Service Line

**Attribute Description** This attribute is used to indicate if this port has essential service protection.

**Attribute: portgrp**

**Fullname:** Multi-line hunt group number (group type not included).

**Attribute Description** For mutlti-line hunt group members this attribute is used for the group number for the member assigned to that port.

**Attribute: porttyp**

**Fullname:** Port Type

**Attribute Description** Type of port for multi-line hunted group members.

**Attribute: member**

**Fullname:** MLH Member Number

**Attribute Description** For multi-line hunt group members this attribute is used for the member number assigned to the port.

**Attribute: mkbusy**

**Fullname:** Make Busy Key

**Attribute Description** This attribute is used for the port of the make busy key. The SM number is not included in the attribute.

**Attribute: mkbsymod**

**Fullname:** Make busy module.

**Attribute Description** This attribute is used for the module of the make busy scan point.

**Attribute: rmkbusy**

**Fullname:** Random Make Busy Key

**Attribute Description** Port (scan point) of the Random Make Busy Key associated with this line.

**Attribute: rmkbsymod**

**Fullname:** Module of Random Make Busy port (scan point)

**Attribute Description** Number of the module on which the Random Make Busy key is physically located.

**Attribute: sphtkey**

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**Fullname:** Stop Hunt Key

**Attribute Description** This attribute is used for the port of the stop hunt key. The module number is not included in the attribute.

**Attribute: sphkymod**

**Fullname:** Stop Hunt Key Module

**Attribute Description** This attribute is used for the module of the stop hunt key scan point.

**Attribute: att_grp**

**Fullname:** Attendant Group

**Attribute Description** When the rbv attribute is set to DBNO and att_grp is greater than 0, then this attribute has the value of an attendant multiline hunt group number associated with the primary DN. Otherwise, if rbv=DBYES and att_grp is greater than 0, then this attribute contains the incoming ISAT Busy Verify Trunk (BVT) group number. If att_grp equals 0 then this primary DN is not associated with any ISAT multiline hunt group or ISAT busy verify trunk.

```
Note: The check for a bit set in RLtgcntmsk
      as the relation of the DN corresponding to this port
      in RLrc_oeinfo will be done from RLtgcntmsk.
```

**Attribute: acof_cnt**

**Fullname:** Attendant Control of Facilities Count

**Attribute Description** Number of attendant control of facilities buttons associated with this port.

**Attribute: lsf_cnt**

**Fullname:** LASS Selective Feature Count

**Attribute Description** This field is used to keep track of the total subscription count for all DNs including secondary only DNs which subscribe to any of 5E6 LASS features. If this field is zero, the lsf_sub field in FC_LINE must be DBNO. If non-zero, the lsf_sub field must be set to DBYES.

For those lines which have a corresponding tuple in RLltsbport, the lsf_cnt attribute is only be maintained on the main(lead) port of 1-TN Line Time Slot Bridging lines (LTSB). The value of this attribute on an associated non-lead port is a `don't care'.

**Attribute: nohuntcnt**

**Fullname:** Number of No-hunt DNs

**Attribute Description** This field is used to keep track of the total count for all no-hunt DNs for this port which is a member of a MLHG where the multi-dn (fc_line.locdn) is the primary DN.

**Attribute: rbv**

**Fullname:** Remote Busy Verify Indication Flag

**Attribute Description** The rbv attribute will indicate that this DN is Remote Busy Verifiable. If rbv=DBYES then the value in the att_grp attribute will represent the incoming ISDN Attendant

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(ISAT) Busy Verify Trunk (BVT) group number associated with the primary DN. If rbv=DBNO then the DN is not Remote Busy Verifiable.

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# RC_OFRMK

## 1. Description

Remark associate with office code view.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8191 |
| expected number of tuples | 250 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| ks keystore | AUTO |

## 3. Field Layout

```
RC_OFRMK    relid = 222   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     noc         DMNOC        (ushort: 14)     <--- key, not stored
     rem         DMTEXT       (array [ 16 ] of char )
         User and Compacted Tuple Layout   RC_OFRMK
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             noc               |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                               rem                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                               rem                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                               rem                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                               rem                             |
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
     rem         DMTEXT       (array [ 16 ] of char )
           Stored Tuple Layout     RC_OFRMK
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                               rem                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                               rem                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                               rem                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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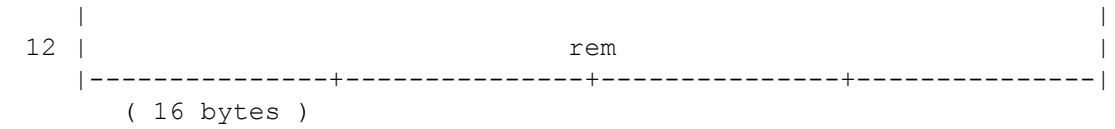


## 4. Population Rules for RLrc_ofrmk

**Relation Description**
Remarks for Normalized Office Codes (NOCs) equipped in office.

This relation contains remarks associated with NOCs and their corresponding officecodes, or NXXs. The NOC is the key to the RLOFFICECODE relation, and the NXX is the key to the RLNOCCODE relation.

**Attribute: noc**

**Fullname:** Normalized Office Code

**Attribute Description** Normalized Office Code

**Attribute: rem**

**Fullname:** remark associated with office code

**Attribute Description** Character string for remarks.

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# RC_OLTH

## 1. Description

Relation that stores the logical termination index holes for unshared line and trunks.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 60000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 1024 |
| data page size | 256 |
| permutation type | perm |

## 3. Field Layout

```
RC_OLTH     relid = 868   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     ltm_idxo    DMLTM_IDX    (ulong: 16)  <--- key
     succ        DMLTM_IDX    (ulong: 16)
     module      DMMODULE     (ushort: 8)  <--- key
         User, Compacted and Stored Tuple Layout    RC_OLTH
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             ltm_idxo          |              succ             |
    |---------------+---------------+---------------+---------------|
    |                 |                                             |
  4 |      module     |*********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLrc_olth

**Relation Description**
Logical termination index holes for unshared analog and trunks.

Relation that stores the ltm_idx holes for unshared analog and trunks where ltm_type - LTM_OTHER. This relation is used by recent change (RC) only.

The module number is always non-zero. RC keeps four separate ltm_idx link lists for each SM. Reference population rules for RLrc_qidx for a strategic overview of how four linked list are maintained. RC adds a member to a link list when it is no longer needed. This may be due to a unshared analog or trunk being deleted. When an ltm_idx is required to be assigned port on a SM, RC uses the members from the link list. If the link list is empty then the next index is taken from RLrc_qidx.
NOTE - only member tuples are kept in this relation. The starting point for a link list is located in the RLrc_qidx relation (RLrc_qidx.succ attribute).
For new offices, ODA will sequentially assign ltm_idices from 1 to 8191 for each SM and populate RLrc_qidx with the next ltm_idx to use for each SM.
Empty queue: Read module x, qtyp=LTM_IDXO, and qid y in RLrc_qidx.If RLrc_qidx.succ is zero, then queue y is empty.
Members on list: Read module x, qtyp=LTM_IDXO, and qid y in RLrc_qidx. The RLrc_qidx.succ attribute points to

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the first member on the link list in RLrc_ilth. Read tuple in RLrc_ilth with mod=x and ltm_idxo=RCrc_qidx.succ to obtain the first member. The first member has succ = 0 if it is the only member, otherwise it points to the next member in the link list. A succ attribute of 0 indicates the end of the link list. The attribute index in the relation RLrc_qidx defines the next available ltm_idxo index value if all four queues are empty.

**Attribute: module**

**Fullname:** Switching module

**Attribute Description** For each module there are separate LTM_IDX link lists.

**Attribute: ltm_idxo**

**Fullname:** LTM_OTHER hole index

**Attribute Description** It is assigned sequential hole reuse implemented using this relation by RC. Key value 1-8191 used to link idle holes.

**Attribute: succ**

**Fullname:** Successor ltm_idxo

**Attribute Description** Key to next member of link list or 0 to indicate no or last member on the list.

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# RC_PBX

## 1. Description

PBX group relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | GCRTG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 1024 |
| page level | 0 |

## 3. Field Layout

```
RC_PBX      relid = 684   DBSTATIC   DBACC_HASH  DBPRAM    LP      GCRTG
     pbx_id      DMPBX_ID     (ushort: 12)  <--- key
 (a) in_dial     DMBOOL       (enum: 1)
     rem         DMTEXT       (array [ 16 ] of char )
     orig_grp    DMPORTGRP    (struct)
         grpnum      DMGRPNUM     (ushort)
 (b)     grptype     DMPTYPE      (enum: 1)
     frst_grp    DMPORTGRP    (struct)
         grpnum      DMGRPNUM     (ushort)
 (c)     grptype     DMPTYPE      (enum: 1)
     scnd_grp    DMPORTGRP    (struct)
         grpnum      DMGRPNUM     (ushort)
 (d)     grptype     DMPTYPE      (enum: 1)
     pbx_owner   DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout RC_PBX
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       | |     |                               |
  0 |         pbx_id        |a|*****|              rem              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                             rem                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             rem                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                             rem                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 16 |              rem              |*******************************|
    |===============+==========  orig_grp ==========+===============|
    |                               |             | |               |
```

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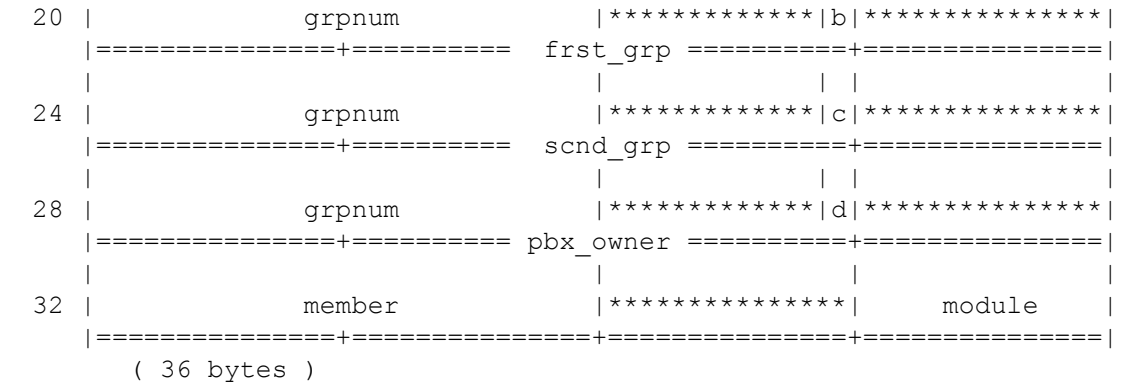


## 4. Population Rules for RLrc_pbx

There are no population rules for this relation.

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# RC_PDIT

## 1. Description

This relation contains the preliminary digit analysis number. This relation maintains a list of the RLdaprldgt entry points for each and every pdit value used.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| expected tuples | 2 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
RC_PDIT     relid = 198   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     preltable   DMTBLE14     (ulong: 20)
 (a) psflag      DMBOOL       (enum: 1)
     pdit        DMSHORT      (short)     <--- key
         User, Compacted and Stored Tuple Layout    RC_PDIT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                             | |               |
  0 |                preltable                    |a|***************|
    |---------------+---------------+---------------+---------------|
    |                                 |                             |
  4 |               pdit              |*****************************|
    |---------------+---------------+---------------+---------------|
                                  ( 8 bytes )
```

## 4. Population rules for RLrc_pdit

### Relation Description

```
        Preliminary Digit Interpretation Table
        This relation maintains a list of the RLdaprldgt entry points
        for each and every pdit value used.
        This relation records the entry points into RLdaprldgt
        for every PDIT.
```

**Attribute:**

```
        pdit
```

**Fullname:**

```
        Preliminary Digit Interpretation Table
```

**Attribute Description:**

```
        Used to select a particular digit interpretation table.
```

**Attribute:**

```
        preltable
```

**Fullname:**

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The entry point into RLdaprldgt.

**Attribute Description:**

This value is used as the initial value of RLdaprldgt.previous.

**Attribute:**

psflag

**Fullname:**

Packet Switching Flag

**Attribute Description:**

Indicates that RLdaprldgt contains only packet switching tuples.

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# RC_PDRMK

## 1. Description

Remarks associated with preliminary digit interpretation view.

This is a virtual update relation. The root storage relation is RLpdrmk_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation RC_PDRMK.

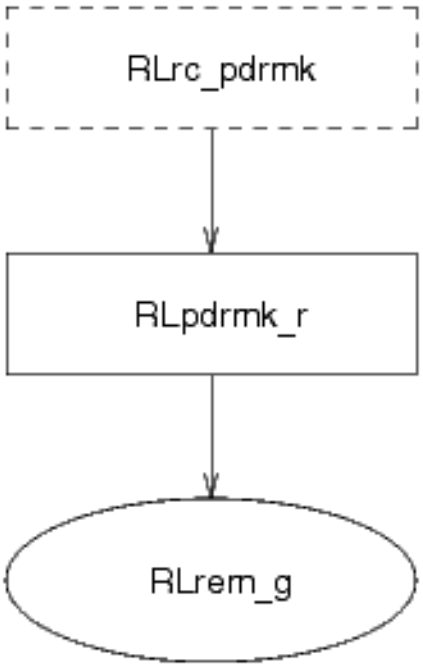


**Figure 1 Virtual Relation RC_PDRMK**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
RC_PDRMK    relid = 206   DBSTATIC   DBACC_OPV   DBNOTODD  LP      RCDATA
     calltype    DMCTXT7      (array [ 7 ] of char )
     rcdigs      DMCTXT7      (array [ 7 ] of char )  <--- key, compacted
     pdit        DMSHORT      (short)  <--- key
     rem         DMTEXT       (array [ 16 ] of char )
            User Tuple Layout      RC_PDRMK
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |                                                            |
  0 |                           calltype                         |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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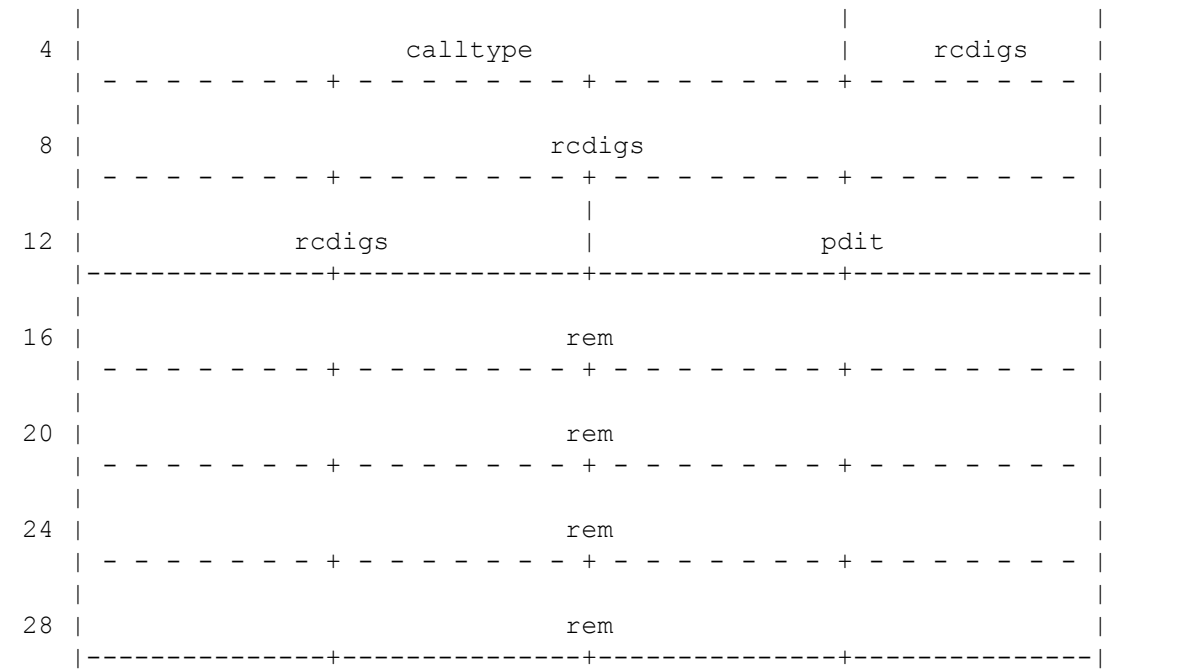
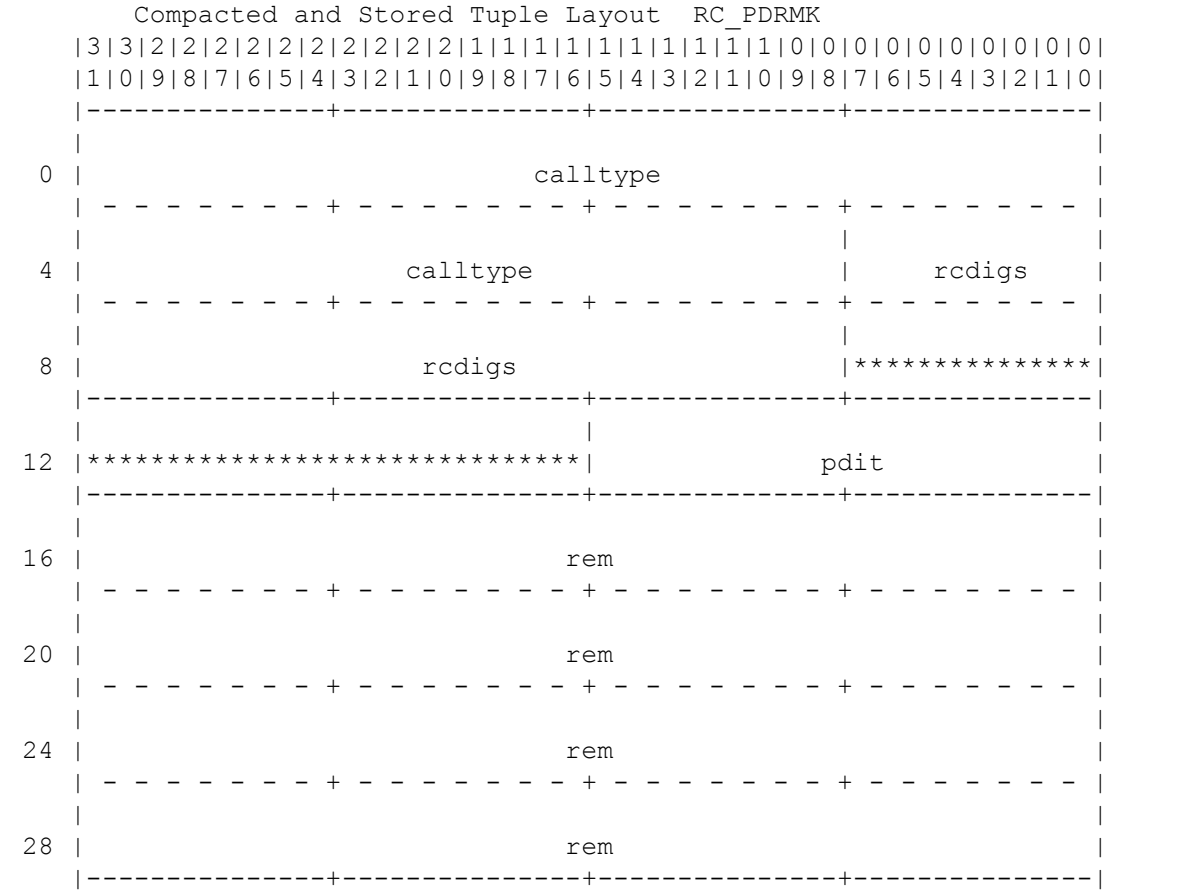



```
  ( 32 bytes )
calltype    DMCTXT7      (array [ 7 ] of char )
rcdigs      DMKBCD7      (array [ 4 ] of char )  <--- key, compacted
pdit        DMSHORT      (short)  <--- key
rem         DMTEXT       (array [ 16 ] of char )
```

Compacted and Stored Tuple Layout RC_PDRMK

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```
( 32 bytes )
```

## 4. Population Rules for RLrc_pdrmk

**Relation Description**
Pdit remarks.

There is a tuple in this relation for every tuple in RC_PDIT and corresponding terminal digit in DAPRLDGT. Populated if there is a tuple in relation RC_PDIT and corresponding terminal digit in DAPRLDGT.

**Attribute: pdit**

**Fullname:** Preliminary digit

**Attribute Description** pdit - This is part of the key and corresponds to one tuple in relation RC_PDIT.

**Attribute: rcdigs**

**Fullname:** rc digits

**Attribute Description** rcdigs - This is part of the key, and corresponds with pdit to one terminal digit in relation DAPRLDGT.

**Attribute: calltype**

**Fullname:** The type of call this is.

**Attribute Description** The value of call type is determine from RLdaprlfnl.desttype (see checks section for this relation in the 235-600-123 Populations Rules Language (PRL) Data manual).

**Attribute: rem**

**Fullname:** remark, about rc_pdit tuple

**Attribute Description** rmk - Used to record a remark about a specific path in the Incoming Trunk Digit Interpreter Table.

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# RC_PGMU

## 1. Description

This relation indicates how many call appearances on a given SM and for a given pickup group have the pickup terminating feature assigned.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |

## 3. Field Layout

```
RC_PGMU     relid = 1077  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     pugroup     DMUNS16      (ushort)  <--- key
     users       DMUSHORT     (ushort)
     module      DMMODULE     (ushort: 8)  <--- key
         User, Compacted and Stored Tuple Layout    RC_PGMU
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            pugroup            |             users             |
    |---------------+---------------+---------------+---------------|
    |                |                                              |
  4 |     module     |**********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLrc_pgmu

**Relation Description**
Call pick-up group, module users.

This relation contains the number of terminating call appearances for users of a terminating predesignated queue, call pick up group, for each switching module containing users of the group. If there are no users of a group on a switching module, then there is no tuple in this relation.

**Attribute: pugroup**

**Fullname:** Pick Up Group

**Attribute Description** The call pick up group identifies directory numbers and multiline hunt group members whose calls are queued together for possible answering by another station.

**Attribute: module**

**Fullname:** Switching Module number

**Attribute Description** Module is the specific switching module serving directory numbers or

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multiline hunt group members whose calls may be queued together for call pick up.

**Attribute: users**

**Fullname:** Number of terminating call appearances using the pick up group.

**Attribute Description** Indicates the number of terminating call appearances of users of the call pick up group on the switching module.

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# RC_PGRPRMK

## 1. Description

Remarks associate with MLH group views.

This is a virtual update relation. The root storage relation is RLpgrp_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation RC_PGRPRMK.

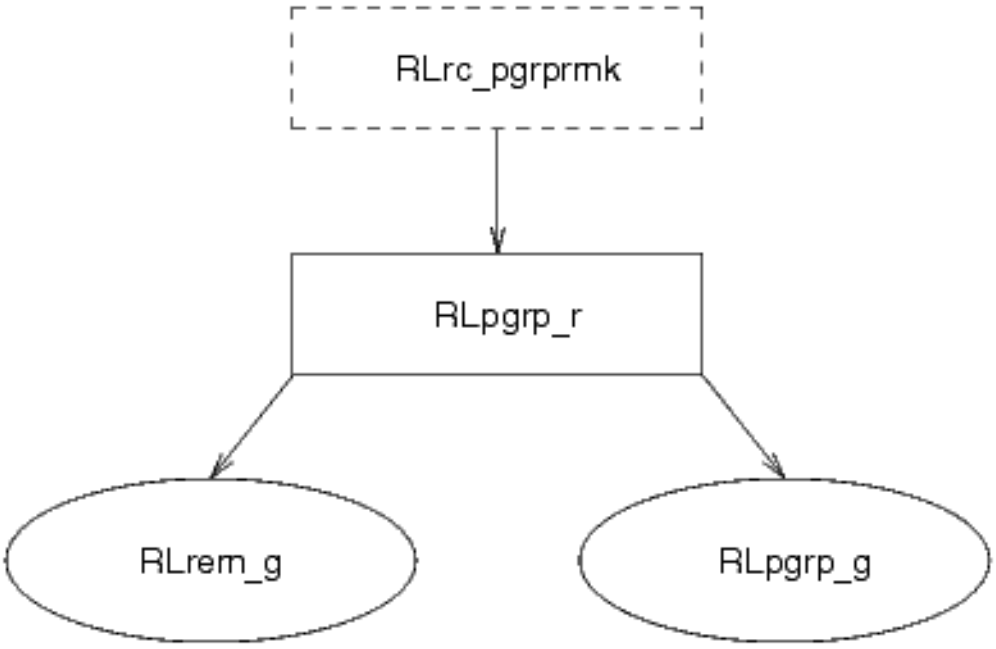


**Figure 1 Virtual Relation RC_PGRPRMK**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
RC_PGRPRMK  relid = 166   DBSTATIC   DBACC_OPV   DBNOTODD  LP      RCDATA
     feat_id      DMMCC_FID     (ushort)
     std_bri_cnt  DMMEM          (ushort: 12)
     mlhgid       DMCHR2        (array [ 2 ] of char )
     rem          DMTEXT        (array [ 16 ] of char )
     rax          DMINDEX       (ushort)      <--- compacted
     portgrp      DMPORTGRP     (struct)      <--- key, compacted
         grpnum       DMGRPNUM      (ushort)
 (a)     grptype      DMPTYPE       (enum: 1)
     tn           DMLOCDN       (struct)      <--- compacted
         noc          DMNOC         (ushort: 8)
         digits       DMLOCDIG      (array [ 4 ] of char )
 (b) grpcfbl      DMCFBL_OPT    (enum: 2)
```

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```
    grpdn_mbrs  DMMEM        (ushort: 12)
(c) cf          DMBOOL       (enum: 1)
(d) cfbusy      DMBOOL       (enum: 1)
           User Tuple Layout    RC_PGRPRMK
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                       |       |
 0 |            feat_id            |      std_bri_cnt      |*******|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |             mlhgid            |              rem              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
 8 |                              rem                              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
12 |                              rem                              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
16 |                              rem                              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
20 |              rem              |              rax              |
   |===============+=========== portgrp ===========+===============|
   |                               |             | |               |
24 |             grpnum            |*************|a|***************|
   |===============+=============  tn ============+===============|
28 |***************|      noc      |             digits            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
32 |             digits            |*******************************|
   |===============+===============+===============+===============|
   |                             |   |                       | | |   |
36 |*****************************| b |       grpdn_mbrs      |c|d|***|
   |---------------+---------------+---------------+---------------|
     ( 40 bytes )
    feat_id     DMMCC_FID    (ushort)
    std_bri_cnt  DMMEM        (ushort: 12)
    mlhgid      DMCHR2       (array [ 2 ] of char )
    rem         DMTEXT       (array [ 16 ] of char )
    rax         DMRAX        (ushort: 7)     <--- compacted
    portgrp     DMCPRTGP     (struct)     <--- key, compacted
(a)     zerobits    DMUNS3       (ushort: 3)
        grpnum      DMGRUPNM     (ushort: 13)
(b)     grptype     DMPTYPE      (enum: 1)
    tn          DMCLOCDN     (struct)     <--- compacted
        noc         DMNOC        (ushort: 8)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
(c) grpcfbl     DMCFBL_OPT   (enum: 2)
    grpdn_mbrs  DMMEM        (ushort: 12)
```

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```
(d) cf          DMBOOL       (enum: 1)
(e) cfbusy      DMBOOL       (enum: 1)
       Compacted and Stored Tuple Layout    RC_PGRPRMK
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |       |
 0 |             feat_id           |      std_bri_cnt              |*******|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |              mlhgid           |              rem              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
 8 |                             rem                               |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
12 |                             rem                               |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
16 |                             rem                               |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |               |               |
20 |              rem              |      rax      |***************|
   |===============+=========== portgrp ===========+===============|
   |     |                         |               | |               |
24 |  a  |          grpnum         |*************|b|***************|
   |===============+=============  tn =============+===============|
   |               |               |       |       |       |       |
28 |***************|      noc      |  dig3 |  dig1 |  dig4 |  dig2 |
   |===============+===============+===============+===============|
   |                                                               |
32 |***************************************************************|
   |---------------+---------------+---------------+---------------|
   |                           |   |                           | | |   |
36 |***************************| c |       grpdn_mbrs          |d|e|***|
   |---------------+---------------+---------------+---------------|
      ( 40 bytes )
```

## 4. Population Rules for RLrc_pgrprmk

**Relation Description**
Remarks associate with multiline hunt group views.

This relation contains remarks associate with multiline hunt groups.

**Attribute: portgrp**

**Fullname:** Logical Port Group Identifier

**Attribute Description** This attribute consists of the grpnum (multiline hunt group number) and grptype (which will always be TM_LINE).

**Attribute: portgrp.grpnum**

**Fullname:** Multiline Hunt Group Number

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**Attribute Description** Decimal number assigned to multiline hunt group.

**Attribute: portgrp.grptype**

**Fullname:** The group type of multiline hunt group.

**Attribute Description** In this case the grptype will always be TM_LINE.

**Attribute: rem**

**Fullname:** Character String for Remarks

**Attribute Description** Remarks to describe the multiline hunt group.

**Attribute: tn**

**Fullname:** Multiline Hunt Group Directory Number

**Attribute Description** This attribute consists of the noc (normalized office code) and four directory number digits.
If RLrt_mhg.htype in RLrt_mhg tuple keyed by RLrc_pgrprmk.portgrp.grpnum is :

(A) RTH_ISAT or RTH_MUPH -
The tn must be null (noc = 0, digits[0] = '0'), there must be a tuple in RLrtdn_mhg with RLrtdn_mhg.grpnum = RLrc_pgrprmk.portgrp .grpnum and a tuple in RLrt_dntran keyed by RLrtdn_mhg.locdn with RLrt_dntran.ucd_muph = DBYES.

(B) RTH_UCD or RTH_LGUCD -
If there exists an RLrtdn_mhg tuple keyed by RLrc_pgrprmk.portgrp .grpnum, then there must be a tuple in RLrtdnmpg and RLpr_dntran keyed by RLrc_pgrprmk.tn, else this group has no modem pooling on it and there must be a tuple in RLrtdn_mhg keyed by RLrc_pgrprmk.tn and also a tuple in RLrt_dntran keyed by RLrc_pgrprmk.tn, with RLrt_dntran.ucd_muph = DBYES.

(C) RTH_PSUCD or RTH_PSLGUCD -
There must be a tuple in RLpr_dntran keyed by RLrc_pgrprmk.tn or a tuple must exist in RLrtdnmod keyed by RLrc_pgrprmk.tn.noc and RLrc_pgrprmk.tn.digits[0:1].

(D) other hunt types -
If there exists an RLgroup_port tuple keyed by RLrc_pgrprmk.portgrp and RLgroup_port.member = 1, then there must exist a tuple in RLrt_dntran keyed by RLrc_pgrprmk.tn with RLrt_dntran.portname = RLgroup_port.port, else this group has no members and there must not exist a tuple in RLrt_dntran keyed by RLrc_pgrprmk.tn.

**Attribute: tn.noc**

**Fullname:** Normalized Office Code

**Attribute Description** Noc code assigned to phone number of group if a phone number is assigned.

**Attribute: tn.digits**

**Fullname:** Directory digits

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**Attribute Description** Last four digits assigned to phone number of group if a phone number is assigned.

**Attribute: rax**

**Fullname:** Rate Center for Group

**Attribute Description** Rate center is derived from relation RLrc_oeinfo.

**Attribute: cf**

**Fullname:** Call Forwarding Variable Feature

**Attribute Description** Does multiline hunt group have call forwarding variable allowed? An enumeration of DBNO says it doesn't. Dependency: Derived from mhg_opts attribute of same name keyed by feat_id from this tuple.

**Attribute: cfbusy**

**Fullname:** Call forwarding busy line feature

**Attribute Description** Does multiline hunt group have call forwarding busy line allowed? An enumeration of DBNO says it doesn't. Dependency: Derived from mhg_opts attribute of same name keyed by feat_id from this tuple.

**Attribute: grpcfbl**

**Fullname:** MLHG Call Forwarding Busy Line Assigned

**Attribute Description** This attribute indicates whether the MLHG has call forwarding busy line assigned. In addition, if a call forwarding busy line feature is assigned, this attribute indicates whether the call forwarding busy line feature has either the CFBL inhibit make busy or inhibit line busy parameter assigned or not. CFBL_NULL indicates the MLHG does not have a CFBL feature assigned. CFBL_ASGN indicates the MLHG has a CFBL feature assigned but which does not have the CFBL inhibit make busy or inhibit line busy parameter assigned. CFBL_IMLB indicates the MLHG has a CFBL feature which also has either the CFBL inhibit make busy or inhibit line busy parameter assigned.

**Attribute: std_bri_cnt**

**Fullname:** Count of Circuit MLHG Members on a Standard BRI

**Attribute Description** The attribute will be used as a counter to keep track of the number of circuit MLHG (Multi-Line Hunt Group) members that are on a standard BRI.

**Attribute: feat_id**

**Fullname:** Feature Identification of Associated Multiline Hunt Group

**Attribute Description** The values of feat_id will be:

```
high order byte = MFMLHG from DMmftype
low  order byte = any value
```

Dependency: The feat_id must be found as a key in RLfacftdsc.

**Attribute: grpdn_mbrs**

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**Fullname:** Number of Members Using the Group or Subgroup DN

**Attribute Description** This field indicates the number of MLHG members which send the group/listed DN or the subgroup 1 DN (ISAT) in the routing message upon originating. Such a member does not have either an individual DN or a no-hunt DN, that is, the locdn for ltm_type LTM_OTHER in FC_LINE (or the noc, loc in IS_LINE if ltm_type is LTM_ISDN) must be zero. The exception is for regular, circular and ISAT hunt types, where member 1's DN or an ISAT member DN is also the group/listed or subgroup DN. In this case, the member is counted in grpdn_mbrs as a user of the group/listed or subgroup DN.

When such a member is added to a MLHG (as defined as seen here), this field should be incremented by one. When such a member is removed from the MLHG, this field should be decremented by one.

When the hunt type of an existent MLHG is changed (via RC update), this field should be administered accordingly. For example, When a regular or circular hunt type MLHG is changed to a UCD hunt type, if member 1 DN is retained as the group/listed DN, then it will be deleted as the member 1 DN. In this case, since member 1 was already include in count of group DN users, (even though it becomes a 'no DN' member, that is, FC_LINE/IS_LINE locdn = 0), this field is not incremented by one. When a UCD hunt type MLHG is changed to a regular or circular hunt type, if member 1 already has a DN, then the group DN would be added to member 1 (multidn case) and therefore this field is increment by one (since member one could send the group/listed DN on originating). However, if in the UCD to regular or circular change case the member 1 did not previously have a DN associated with it, the member 1 would be assigned the group/listed DN and this field is not decremented by one (since member 1 will still send the group/listed DN on originating).

When this field changes from zero to non-zero, the grpdn_flag in RLrt_mhg must be set to DBYES. Likewise, when this field changes from non-zero to zero, the grpdn_flag in RLrt_mhg must be set to DBNO.

**Attribute: mlhgid**

**Fullname:** BCLID Multi-Line Hunt Group ID

**Attribute Description** This is a two character attribute that is used to store the two digits that identify the MLHG in the BCLID message that is sent to the CPE. The values for this attribute range from 00 to 99, or default to a NULL character. This is not an unique value among the BCLID users. This attribute is used to identify the MLHG that generates the BCLID message if two or more MLHG terminates to the same AP. No automatic assignment is required for this attribute. This attribute is maintained in this relation and also in RLbcl_mhtg.mlhgid.
BCLID requires this attribute because this feature exist already in the 1A Switch. This attribute only provide extra information in the BCLID message that is sent to the AP. The user of BCLID may or may not want to assign a value to this attribute.

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# RC_PGTC

## 1. Description

This relation is used by RCV to associate the Pair Gain Test Controller (PGTC) identification with the Metallic Service Unit (MSU) Metallic Test Bus (MTB) and MSU Distribute (DIST) pack distribute point that is wired to the PGTC test circuit. This relation is closely associated with the SM relation RLpctc.h which also stores the MTB and distribute point information for operational use. This relation should only be populated in offices that have Universal *SLC*® 96 systems and PGTCs that have the integrated Mechanized Loop Testing (MLT-2) capability.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3072 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 1024 |
| data page size | 256 |
| page level | 2 |
| index length | 9 |
| ks key store | DBNO |
| permutation type | perm |

## 3. Field Layout

```
RC_PGTC     relid = 559   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     pgtc_frame  DMUNS8       (ushort: 8)  <--- key, not stored
     pgtc_member  DMUNS8       (ushort: 8)  <--- key, not stored
     im          DMUNS8       (ushort: 8)
 (a) shelf       DMUNS2       (ushort: 2)
 (b) msu         DMUNS1       (ushort: 1)
 (c) sg          DMUNS1       (ushort: 1)
        User and Compacted Tuple Layout    RC_PGTC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |   pgtc_frame  |  pgtc_member  |*******************************|
    |---------------+---------------+---------------+---------------|
    |               |   | | |                                       |
  4 |       im      | a |b|c|***************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     im          DMUNS8       (ushort: 8)
 (a) shelf       DMUNS2       (ushort: 2)
 (b) msu         DMUNS1       (ushort: 1)
 (c) sg          DMUNS1       (ushort: 1)
          Stored Tuple Layout      RC_PGTC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |   | | |                                       |
  0 |       im      | a |b|c|***************************************|
    |---------------+---------------+---------------+---------------|
```

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( 2 bytes )

## 4. Population Rules for RLrc_pgtc

**Relation Description**
Pair gain test controller.

This relation is used by RCV to associate the PGTC identification with the MSU, MTB and MSU distribute (DIST) pack distribute point that is wired to the PGTC test circuit.

This relation is closely associated with the SM relation RLpgtc which also stores the MTB and distribute point information for operational use. This relation should only be populated in offices that have Universal *SLC*® 96 systems and PGTCs that have the MLT-2 capability.

**Attribute: pgtc_frame**

**Fullname:** PGTC frame number

**Attribute Description** With the exception of PGTC frames that may exist at a RSM, there is only one PGTC that exists at the host office. The host PGTC frame will always be identified with one (1). RSM PGTC frame numbers will begin with the module number associated with the RSM. In the case of clustered RSMs, only the one PGTC frame would service the cluster and the frame number chosen should correspond to the lowest numbered module in the cluster. This field is also populated as an attribute in the appropriate SM relation RLpgtc.

**Attribute: pgtc_member**

**Fullname:** PGTC trunk member

**Attribute Description** PGTC trunk members and are labeled 1 to 255, although no one PGTC frame should ever have this many trunks based on the engineering rules required that there can exist no more than one PGTC test trunk per MSU shelf in a service group. The PGTC trunk members will always be a part of the PGTC frame at a site. Members cannot be mixed between frames. This field is also populated as an attribute in the appropriate SM relation RLpgtc.

**Attribute: im**

**Fullname:** Module number

**Attribute Description** Module number which contains the MSU with the MA pack and DIST associated with the particular PGTC test circuit pack. This field indicates the appropriate SM where the relation RLpgtc is populated with associated information.

**Attribute: msu**

**Fullname:** PGTC Metallic Test Unit

**Attribute Description** 1 bit - MSU unit number - 0 or 1. This attribute identifies the MSU that terminates the PGTC test circuit. This attribute is the part of the key to the SM partitioned relation RLpgtc in the SM indicated by the im attribute number.

**Attribute: sg**

**Fullname:** PGTC - Service Group

**Attribute Description** 1 bit - MSU service group number - 0 or 1. This attribute identifies the MSU

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service group that terminates the PGTC test circuit. This attribute is part of the key to the SM partitioned relation RLpgtc in the SM indicated by the previous im attribute.

**Attribute: shelf**

**Fullname:** PGTC shelf

**Attribute Description** 2 bits - MSU shelf number - 0 to 3 (if using old MSU default shelf number is 0). This attribute identifies the MSU shelf that terminates the PGTC test circuit. This attribute is part of the key to the SM partitioned relation RLpgtc in the SM indicated by the previous im attribute number.

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# RC_QEND

## 1. Description

This relation is used by Recent Change to determine the next available QLPS qendpoint address for a CCS QPH in the QLPS Network. The attributes will be used as a bit map for QLPS qendpoint addresses between 197 and 255 (valid range of CCS QPH Qendpoint Addresses).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application type | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
RC_QEND     relid = 3142  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP


 (a) index       DMUNS1       (ushort: 1)       <--- key
     qend1       DMHEX32      (ulong)
     qend2       DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout    RC_QEND
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | |                                                             |
  0 |a|*************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             qend1                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             qend2                             |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population rules for RLrc_qend

### Relation Description

There are no population rules for this relation.

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# RC_QIDX

## 1. Description

ISDN relation that stores values of index holes and the highest value of ISDN BRCS sequential keys: ltm_idxi, ltm_idxo, latidx, alport, lport, pkt_lport and dflt_lport.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8448 |
| expected tuples in relation | 500 |
| access type | DBACC_CIND |
| distribution | LP |
| memory type | DBPRAM |
| application | RCMAP |
| page level | 2 |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
RC_QIDX     relid = 1179  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     index       DMUSHORT     (ushort)
     succ        DMUSHORT     (ushort)
     numholes    DMUSHORT     (ushort)
     module      DMMODULE     (ushort: 8)     <--- key
     qtyp        DMQTYP       (enum: 5)     <--- key
     qid         DMQID        (ushort: 2)     <--- key
         User, Compacted and Stored Tuple Layout    RC_QIDX
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |              index             |              succ             |
    |---------------+---------------+---------------+---------------|
    |                                |               |         |   | |
  4 |            numholes            |     module    |   qtyp  |qid|*|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLrc_qidx

**Relation Description**
Recent Change Queue Index.

This relation stores the first index hole and the next available index value for the ltm_idxo, ltm_idxi, alport, lport, latidx, pkt_lport, dflt_lport, iclid, facid, circuit, port, and GSDB index types. Recent Change maintains separate queues or linked lists of index holes for each SM. The queues are maintained in the relations RLrc_olth, RLrc_ilth, RLrc_lahol, RLrc_alpho, RLrc_lphol, RLic_lth, and RLrc_hole. RLrc_lphol contains holes for lports with lpt_type=LPT_ISDN, LPT_PKT, & LPT_BFG, which correspond to qtypes of lport, pkt_lport & dflt_lport. RLrc_hole is a general hole relation. It is used by circuit, port, and GSDB and should be also by used by any new indices in the future instead of defining a new relation.

This relation contains from one to four tuples for each index type on each SM, depending on the type. The RLrc_qidx.succ attribute points to the first member on the link list of index holes in the respective relation (that is, the RLrc_qidx.succ attribute represents the starting point for the link list located in the hole relations). The

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RLrc_qidx.numholes attribute tells how many holes there are in the list for the queue types that use RLrc_hole, but is 0 for the other queue types. The RLrc_qidx.index attribute contains the next available index value.

Index retrieval: Determine the queue to be used to retrieve the index. Read the tuple with module x, qtyp=<type of index to be retrieved>, and qid=<queue identifier> within the relation RLrc_qidx. The RLrc_qidx.succ points to the first index hole withing the queue. read the tuple within the corresponding hole relation to obtain the index hole. If the value of RLrc_qidx.succ is zero, the RLrc_qidx.index attribute value represents the next available index (0 if there are none left)

For new offices, four tuples will be initialized for each queue type, for each SM, except just one for circuit and GSDB. The value of successor will be zero if no index holes exist for the specified queue type and queue identifier in the corresponding hole relation. Numholes tells how many holes are present for the queue types that use RLrc_hole; it is 0 for the queue types the use relations other than RLrc_hole (see list in first paragraph). For each queue type, the tuple with the queue identifier of zero will contain an index value which generates a remainder of zero when the index value is divided by the number of queues for that queue type. Similarly, tuples with the queue identifier value of X will contain index hole values which generate remainders of X respectively when divided by the number of queues. The next available index value represents the highest index value which has not been used. The exception is that if all the indices have been allocated from a given queue, the index value is set to 0 regardless of the queue ID. For new offices in which the indices have not been used to populate other relations, the next available index attribute will be initialized to N, 1, 2, . . ., N-1 in queues 0, 1, 2, . . ., N-1, respectively, where N is the number of queues for this queue type. In offices where indices have been used, the index attribute must be set to the first legal unallocated value (0 if there are none), excluding values for which there are holes. To see if a particular value has been allocated, you must check different relations, depending on index type (see poprules for each hole relation).

**Attribute: module**

**Fullname:** Switching Module

**Attribute Description** Recent Change and ODA support separate index queues for each SM. The index corresponds to the SM defined by this attribute value.

**Attribute: qtyp**

**Fullname:** Queue Type

**Attribute Description** Queue type defines the index type.

**Attribute: qid**

**Fullname:** Queue Identifier

**Attribute Description** Queue identifier defines separate link lists for each index type. The range of qid is zero through the number of queues for this qtyp minus 1. Thus this attribute defines up to four queues or link lists. For each queue type this relation contains a tuple for each queue identifier value. The index value is divided by the number of queues to determine which queue the index belongs to. The remainder of this division is the appropriate queue number. For example, if this qtyp uses four queues, the queue identifier attribute value for tuple with an index attribute value of five is one.

**Attribute: index**

**Fullname:** Next Available Index

**Attribute Description** This attribute defines the next available index value for the given index type and queue identifier of the tuple. If all the indices are used up, index is set to zero. The next

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available index value is retrieved if there are no index holes in the queue (value of successor is zero). Indices are distributed between the queues. The appropriate queue is determined by dividing the index value by the number of queues. The remainder of this division represents the appropriate queue number.

**Attribute: succ**

**Fullname:** Successor

**Attribute Description** The successor attribute points to the first index hole member within the corresponding index hole relation. If there are no index holes for the specified queue type and queue identifier, the successor attribute has a value of zero.

**Attribute: numholes**

**Fullname:** Number of Holes

**Attribute Description** Numholes is used only by the queue types that use RLrc_hole. It tells how many hole tuples there are in RLrc_hole corresponding to this tuple of RLrc_qidx. It is used to help Recent Change determine which queue to select.

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# RC_QKEY

## 1. Description

Unused QKEYPORT keys deleted via RC/V.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 220 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
RC_QKEY     relid = 604   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     qkey        DMUNS16      (ushort)  <--- key
 (a) dummy1      DMUNS1       (ushort: 1)
         User, Compacted and Stored Tuple Layout    RC_QKEY
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               | |                             |
  0 |              qkey             |a|*****************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLrc_qkey

**Relation Description**
Unused RLqkeyport keys deleted via RC/V.

Whenever a qkeyport relation tuple is deleted, a new tuple should be added to this relation using the qkeyport tuple key, qkey, as its key.
When a new qkeyport tuple is to be inserted, the key, qkey, will be found in this relation by searching for the first defined tuple and the key to that tuple will be the key to the new qkeyport tuple. The tuple in this relation will be deleted in this case. If there are no tuples in this relation, them the qkeyport tuple key will be the number found in RLrc_idx.qkeyidx.

**Attribute: qkey**

**Fullname:** Arbitrary key used by RC nad RTA to represent hunted trunk ports

**Attribute Description** Whenever a qkeyport relation tuple is deleted, a new tuple should be added to this relation using the qkeyport tuple key qkey as its key.

**Attribute: dummy1**

**Fullname:** dummy - unused attribute

**Attribute Description** This is a dummy attribute - it is unused

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# RC_QTMS

## 1. Description

This relation defines the HDLC channels and timeslots that have been assigned to QLPS pipes on this QTMSLNK. This relation is used by RC/V when a new QLPS pipe is assigned. See RLqlps for a definition of QLPS hardware that is used in the 5ESS(R)-2000 switch for hign bandwidth message transport and RLtmspipe for more information on QLPS pipes.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| expected tuples in relation | 16 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
RC_QTMS     relid = 2000  DBSTATIC   DBACC_HASH  DBPRAM    LR      NULL


    qtmslnk     DMTMSLNK     (short)   <--- key
 (a) qnetwork    DMQLNTWK     (enum: 2)
    num_hdlc    DMUNS5       (ushort: 5)
 (b) num_mhpipes  DMUNS5       (ushort: 5)
 (c) num_qphpipes  DMUNS5       (ushort: 5)
    hdlcs       DMHEX32      (ulong)
    num_slots   DMUNS8       (ushort: 8)
    slots0      DMHEX32      (ulong)
    slots1      DMHEX32      (ulong)
    slots2      DMHEX32      (ulong)
    slots3      DMHEX32      (ulong)
    slots4      DMHEX32      (ulong)
    slots5      DMHEX32      (ulong)
    slots6      DMHEX32      (ulong)
    slots7      DMHEX32      (ulong)
        User, Compacted and Stored Tuple Layout    RC_QTMS
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |   |         |         |       |
 0 |            qtmslnk            | a | num_hdlc|    b    |*******|
   |---------------+---------------+---------------+---------------|
   |         |                                                     |
 4 |    c    |*****************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 8 |                            hdlcs                              |
   |---------------+---------------+---------------+---------------|
   |              |                                                |
12 |   num_slots   |************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
```

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```
 16 |                             slots0                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                             slots1                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 24 |                             slots2                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 28 |                             slots3                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 32 |                             slots4                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 36 |                             slots5                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 40 |                             slots6                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 44 |                             slots7                            |
    |---------------+---------------+---------------+---------------|
      ( 48 bytes )


domain alRC_QTMS  struct  (8 sub-attributes)
         qtmslnk     short        (short)
 (a)     qnetwork    .5.fake      (enum: 2)
         num_hdlc    .6.fake      (ushort: 5)
 (b)     num_mhpipes  .7.fake      (ushort: 5)
 (c)     num_qphpipes  .8.fake      (ushort: 5)
         hdlcs       unsigned long (ulong)
         num_slots   .9.fake      (ushort)
         slots       .10.fake     (array [ 8 ] of unsigned long )
                     Structure Layout     alRC_QTMS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |   |         |         |       |
  0 |             qtmslnk             | a | num_hdlc|    b    |*******|
    |---------------+---------------+---------------+---------------|
    |          |                                                    |
  4 |    c     |****************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             hdlcs                             |
    |---------------+---------------+---------------+---------------|
    |                |                                              |
 12 |   num_slots    |**********************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                             slots                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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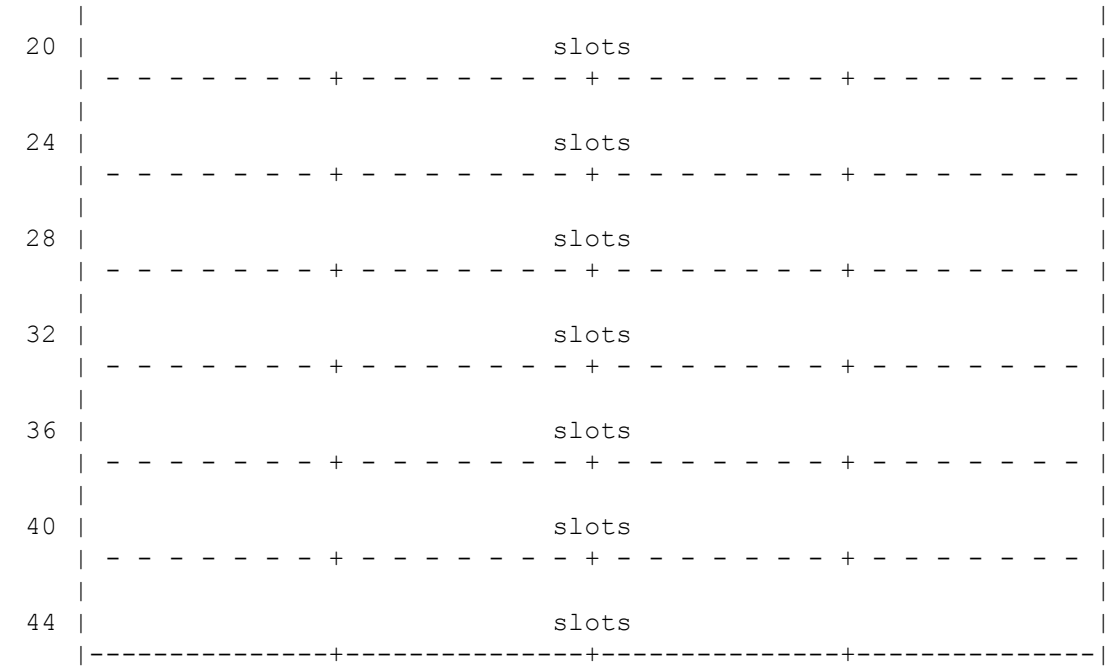


## 4. Population rules for RLrc_qtms

### Relation Description

Quad-Link Packet Switch TMS links for RC/V

This relation defines resources that have been allocated to a QTMSLNK. A QTMSLNK is a TMS link used by the QLPS (Quad-Link Packet Switch) Hardware. QLPS is part of SN-2000 and is an overlay network to provide high bandwidth message transport between SM-2000's and between SM-2000's and existing processors. Each QLPS hardware board takes 4 ports (TMS links) on the ONTC.

RC/V will use this relation when new QLPS pipes are assigned in the office to see what resources are available on the QTMSLNK that can be used for a new pipe.

**Attribute:**

qtmslnk

**Fullname:**

QLPS TMS link (QTMSLNK)

**Attribute Description:**

This attribute identifies a QTMSLNK that has QLPS pipes assigned to it.

**Attribute:**

qnetwork

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**Fullname:**
QLPS Network
**Attribute Description:**
This attribute is the QLPS network, which can only be 0 or 1 for release 1 of Service Net-2000.

**Attribute:**
num_hdlc
**Fullname:**
Number of Assigned QLPS HDLC Channels
**Attribute Description:**
This attribute is the TOTAL number of QLPS HDLC channels that have been assigned to QLPS pipes on this QTMSLNK. There are 32 HDLC channels on a QTMSLNK, but channel 0 is reserved for use by the hardware and channel 31 is reserved for a side port, leaving 30 channels on a QTMSLNK that can be assigned to pipes. (Therefore the default is set to 2, indicating that 2 of the 32 are already accounted for and cannot be used for new pipes. This attribute is used by RC/V to determine how many HDLC channels are remaining on this QTMSLNK that can be assigned to pipes.

**Attribute:**
hdlcs
**Fullname:**
QLPS HDLC Channel Assignment
**Attribute Description:**
This attribute is a bit map that identifies WHICH of the 30 HDLC channels on this QTMSLNK have been assigned to pipes. This attribute consists of 32 bits, 0-31 low order to high order, with a bit set for each HDLC channel assigned. Bits 0 and 31 are set by default since they are never available for new QLPS pipes.

high order.....low order
31, 30, 29.....2, 1, 0

**Attribute:**
num_slots
**Fullname:**
Number of Allocated QTMSLNK timeslots
**Attribute Description:**
This attribute is the TOTAL number of timeslots on this QTMSLNK that have been allocated. There are 256 timeslots per QTMSLNK, but 32 are allocated by default for the QGP side port, leaving 224 to be assigned to pipes. This attribute will be used by RC/V to know how many timeslots are left to be assigned to pipes.

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**Attribute:**
num_mhpipes
**Fullname:**
Total number of Message Handler pipes assigned on this QTMSLNK.
**Attribute Description:**
This attribute contains the TOTAL number of Message Handler (MH) pipes that have been assigned on this QTMSLNK. It is used by RC/V for balancing among QTMSLNKs when a new MH pipe is assigned to a QLPS network.

**Attribute:**
num_qphpipes
**Fullname:**
Total number of QPH pipes assigned on this QTMSLNK and network.
**Attribute Description:**
This attribute contains the total number of QPH pipes that have been assigned on this QTMSLNK and network.

**Attribute:**
slots0
**Fullname:**
Timeslot Assignment Map (bits 0 through 31)
**Attribute Description:**
This attribute holds bits 0 through 31, low order to high order, for the timeslot assignment bit map. RC/V uses this attribute when assigning timeslots to a new pipe.

bit for timeslot 31.....bit for timeslot 0

If a bit is set, it means that the timeslot of that number has been assigned to a pipe in RLtmspipe. If it is not set, the timeslot is still available to be assigned to a pipe.

Note that the bits 1, 9, 17, and 25 are set by default since these are part of the 32 reserved timeslots for HDLC channel 31 going to the side port for the QGP and are not available to be assigned to pipes.

**Attribute:**
slots1
**Fullname:**
Timeslot Assignment Map (bits 32 through 63)
**Attribute Description:**

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This attribute holds bits 32 through 63, low order to high order, for the timeslot assignment bit map. RC/V uses this attribute when assigning timeslots to a new pipe.

```
bit for                                 bit for
timeslot                                timeslot
63.....................................32
```

If a bit is set, it means that the timeslot of that number has been assigned to a pipe in RLtmspipe. If it is not set, the timeslot is still available to be assigned to a pipe.

Note that the bits 33, 41, 49, and 57 are set by default since these are part of the 32 reserved timeslots for HDLC channel 31 going to the side port for the QGP and are not available to be assigned to pipes.

**Attribute:**

slots2

**Fullname:**

Timeslot Assignment Map (bits 64 through 95)

**Attribute Description:**

This attribute holds bits 64 through 95, low order to high order, for the timeslot assignment bit map. RC/V uses this attribute when assigning timeslots to a new pipe.

```
bit for                                 bit for
timeslot                                timeslot
95.....................................64
```

If a bit is set, it means that the timeslot of that number has been assigned to a pipe in RLtmspipe. If it is not set, the timeslot is still available to be assigned to a pipe.

Note that the bits 65, 73, 81, and 89 are set by default since these are part of the 32 reserved timeslots for HDLC channel 31 going to the side port for the QGP and are not available to be assigned to pipes.

**Attribute:**

slots3

**Fullname:**

Timeslot Assignment Map (bits 96 through 127)

**Attribute Description:**

This attribute holds bits 96 through 127, low

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order to high order, for the timeslot assignment bit map. RC/V uses this attribute when assigning timeslots to a new pipe.

```
bit for                                 bit for
timeslot                                timeslot
127.....................................96
```

If a bit is set, it means that the timeslot of that number has been assigned to a pipe in RLtmspipe. If it is not set, the timeslot is still available to be assigned to a pipe.

Note that the bits 97, 105, 113, and 121 are set by default since these are part of the 32 reserved timeslots for HDLC channel 31 going to the side port for the QGP and are not available to be assigned to pipes.

**Attribute:**
slots4
**Fullname:**
Timeslots Assignment Map (bits 128 through 159)
**Attribute Description:**
This attribute holds bits 128 through 159, low order to high order, for the timeslot assignment bit map. RC/V uses this attribute when assigning timeslots to a new pipe.

```
bit for                                 bit for
timeslot                                timeslot
159.....................................128
```

If a bit is set, it means that the timeslot of that number has been assigned to a pipe in RLtmspipe. If it is not set, the timeslot is still available to be assigned to a pipe.

Note that the bits 129, 137, 145, and 153 are set by default since these are part of the 32 reserved timeslots for HDLC channel 31 going to the side port for the QGP and are not available to be assigned to pipes

**Attribute:**
slots5
**Fullname:**
Timeslot Assignment Map (bits 160 through 191)
**Attribute Description:**
This attribute holds bits 160 through 191, low order to high order, for the timeslot assignment

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bit map. RC/V uses this attribute when assigning timeslots to a new pipe.

```
bit for                                  bit for
timeslot                                 timeslot
191.....................................160
```

If a bit is set, it means that the timeslot of that number has been assigned to a pipe in RLtmspipe. If it is not set, the timeslot is still available to be assigned to a pipe.

Note that the bits 161, 169, 177, and 185 are set by default since these are part of the 32 reserved timeslots for HDLC channel 31 going to the side port for the QGP and are not available to be assigned to pipes

**Attribute:**
slots6
**Fullname:**
Timeslot Assignment Map (bits 192 through 223)

**Attribute Description:**
This attribute holds bits 192 through 223, low order to high order, for the timeslot assignment bit map. RC/V uses this attribute when assigning timeslots to a new pipe.

```
bit for                                  bit for
timeslot                                 timeslot
223.....................................192
```

If a bit is set, it means that the timeslot of that number has been assigned to a pipe in RLtmspipe. If it is not set, the timeslot is still available to be assigned to a pipe.

Note that the bits 193 201, 209, and 217 are set by default since these are part of the 32 reserved timeslots for HDLC channel 31 going to the side port for the QGP and are not available to be assigned to pipes.

**Attribute:**
slots7
**Fullname:**
Timeslot Assignment Map (bits 224 through 255)
**Attribute Description:**

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This attribute holds bits 224 through 255, low order to high order, for the timeslot assignment bit map. RC/V uses this attribute when assigning timeslots to a new pipe.

```
bit for                                 bit for
timeslot                                timeslot
255.....................................224
```

If a bit is set, it means that the timeslot of that number has been assigned to a pipe in RLtmspipe. If it is not set, the timeslot is still available to be assigned to a pipe.

Note that the bits 225, 233, 241, and 249 are set by default since these are part of the 32 reserved timeslots for HDLC channel 31 going to the side port for the QGP and are not available to be assigned to pipes.

**Defines:**

"db/DMqltype.h"

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# RC_RDIT

## 1. Description

The Digit Analysis relation is used to store the a remaining digit translation value. The ldit and prevdigs values are stored as keys along with the rdit value to provide unique access to a remtable value as well as assist in database operations.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 800 |
| expected tuples | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application type | RCMAP |
| relation type | DBSTATIC |
| foldtype | DBGC31 |
| linear | DBNO |

## 3. Field Layout

```
RC_RDIT     relid = 1847  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     prevdigs    DMBCD_DN     (struct)     <--- key
         dn0         DMUNS4       (ushort: 4)
         dn1         DMUNS4       (ushort: 4)
         dn2         DMUNS4       (ushort: 4)
         dn3         DMUNS4       (ushort: 4)
         dn4         DMUNS4       (ushort: 4)
         dn5         DMUNS4       (ushort: 4)
         dn6         DMUNS4       (ushort: 4)
         dn7         DMUNS4       (ushort: 4)
         dn8         DMUNS4       (ushort: 4)
         dn9         DMUNS4       (ushort: 4)
         dn10        DMUNS4       (ushort: 4)
         dn11        DMUNS4       (ushort: 4)
         dn12        DMUNS4       (ushort: 4)
         dn13        DMUNS4       (ushort: 4)
         dn14        DMUNS4       (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
     remtable    DMTABLE      (ulong: 20)
 (a) psflag      DMBOOL       (enum: 1)
     rdit        DMSHORT      (short)     <--- key
     ldit        DMSHORT      (short)     <--- key
         User, Compacted and Stored Tuple Layout    RC_RDIT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+==========  prevdigs ==========+===============|
    |       |       |       |       |       |       |       |       |
  0 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
  4 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+===============+===============+===============|
    |                                       | |                     |
  8 |                remtable               |a|*********************|
    |---------------+---------------+---------------+---------------|
```

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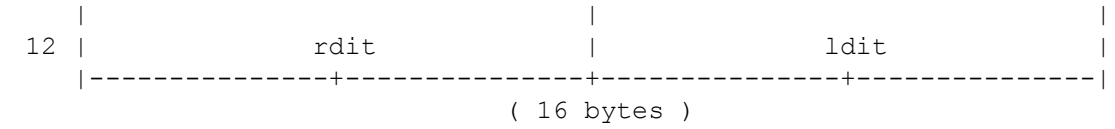


## 4. Population rules for RLrc_rdit

### Relation Description

Remaining Digit Interpreter Table entry point into RLdaprmdgt. RDIT performs translation on the digits that are not analyzed by the primary translator to determine whether a selective dialing request is intended. This relation maintains a list of the RLdaprmdgt entry points for each and every rdit value used. It also contains the ldit and previous digit linkages to rdit values. This relation is only used by recent change and oda in administering the RDIT digit trees.
RDITs are distributed using group partitioning.
The group type is GPD_DA and the group ID is 65000.

**Attribute:**
rdit
**Fullname:**
Remaining Digit Interpreter Table
**Attribute Description:**
Used with the other keys to identify a particular remaining digit interpreter table.

**Attribute:**
ldit
**Fullname:**
Local Digit Interpreter Table
**Attribute Description:**
Used with the other keys to identify a particular remaining digit interpreter table.

**Attribute:**
prevdigs
**Fullname:**
Previous Digits Dialed
**Attribute Description:**
Used with the other keys to identify a particular remaining digit interpreter table.

**Attribute:**
prevdigs.dn0
**Fullname:**
Previous digit value
**Attribute Description:**
Value in the digit string

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**Attribute:**
prevdigs.dn1
**Fullname:**
Previous digit value
**Attribute Description:**
Value in the digit string

**Attribute:**
prevdigs.dn2
**Fullname:**
Previous digit value
**Attribute Description:**
Value in the digit string

**Attribute:**
prevdigs.dn3
**Fullname:**
Previous digit value
**Attribute Description:**
Value in the digit string

**Attribute:**
prevdigs.dn4
**Fullname:**
Previous digit value
**Attribute Description:**
Value in the digit string

**Attribute:**
prevdigs.dn5
**Fullname:**
Previous digit value
**Attribute Description:**
Value in the digit string

**Attribute:**
prevdigs.dn6
**Fullname:**
Previous digit value
**Attribute Description:**
Value in the digit string

**Attribute:**
prevdigs.dn7
**Fullname:**

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Previous digit value
**Attribute Description:**
Value in the digit string

**Attribute:**
prevdigs.dn8
**Fullname:**
Previous digit value
**Attribute Description:**
Value in the digit string

**Attribute:**
prevdigs.dn9
**Fullname:**
Previous digit value
**Attribute Description:**
Value in the digit string

**Attribute:**
prevdigs.dn10
**Fullname:**
Previous digit value
**Attribute Description:**
Value in the digit string

**Attribute:**
prevdigs.dn11
**Fullname:**
Previous digit value
**Attribute Description:**
Value in the digit string

**Attribute:**
prevdigs.dn12
**Fullname:**
Previous digit value
**Attribute Description:**
Value in the digit string

**Attribute:**
prevdigs.dn13
**Fullname:**
Previous digit value
**Attribute Description:**
Value in the digit string

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**Attribute:**
prevdigs.dn14
**Fullname:**
Previous digit value
**Attribute Description:**
Value in the digit string

**Attribute:**
prevdigs.digcnt
**Fullname:**
Previous digits' digit count
**Attribute Description:**
Gives the number of digits in the previous digit string

**Attribute:**
remtable
**Fullname:**
Remaining digit table value.
**Attribute Description:**
This value is used as the initial value of RLdaprmdgt.previous.

**Attribute:**
psflag
**Fullname:**
Packet Switching Flag
**Attribute Description:**
Indicates that RLdaprmdgt contains only packet switching tuples.

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# RC_RDRMK

## 1. Description

Remark associated with remaining digit interpretation view.

This is a virtual relation. The Root Storage Relation is RLrdrmk_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation RC_RDRMK.

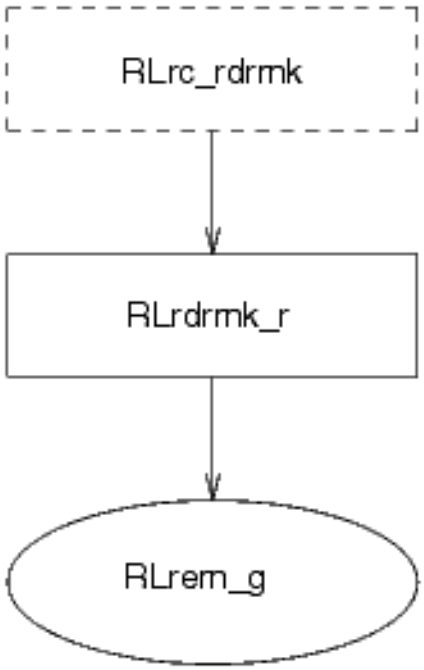


**Figure 1 Virtual Relation RC_RDRMK**

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| head table size | 1024 |
| data page size | 1024 |
| foldtype | DBGC31 |
| linear | DBNO |

## 3. Field Layout

```
RC_RDRMK    relid = 1855  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCDATA
     rdit        DMSHORT      (short)  <--- key
     rcdigs      DMDIGSTRING  (array [ 15 ] of char )  <--- key
     rmdigs      DMDIGSTRING  (array [ 15 ] of char )  <--- key
     rem         DMTEXT       (array [ 16 ] of char )
         User, Compacted and Stored Tuple Layout   RC_RDRMK
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
```

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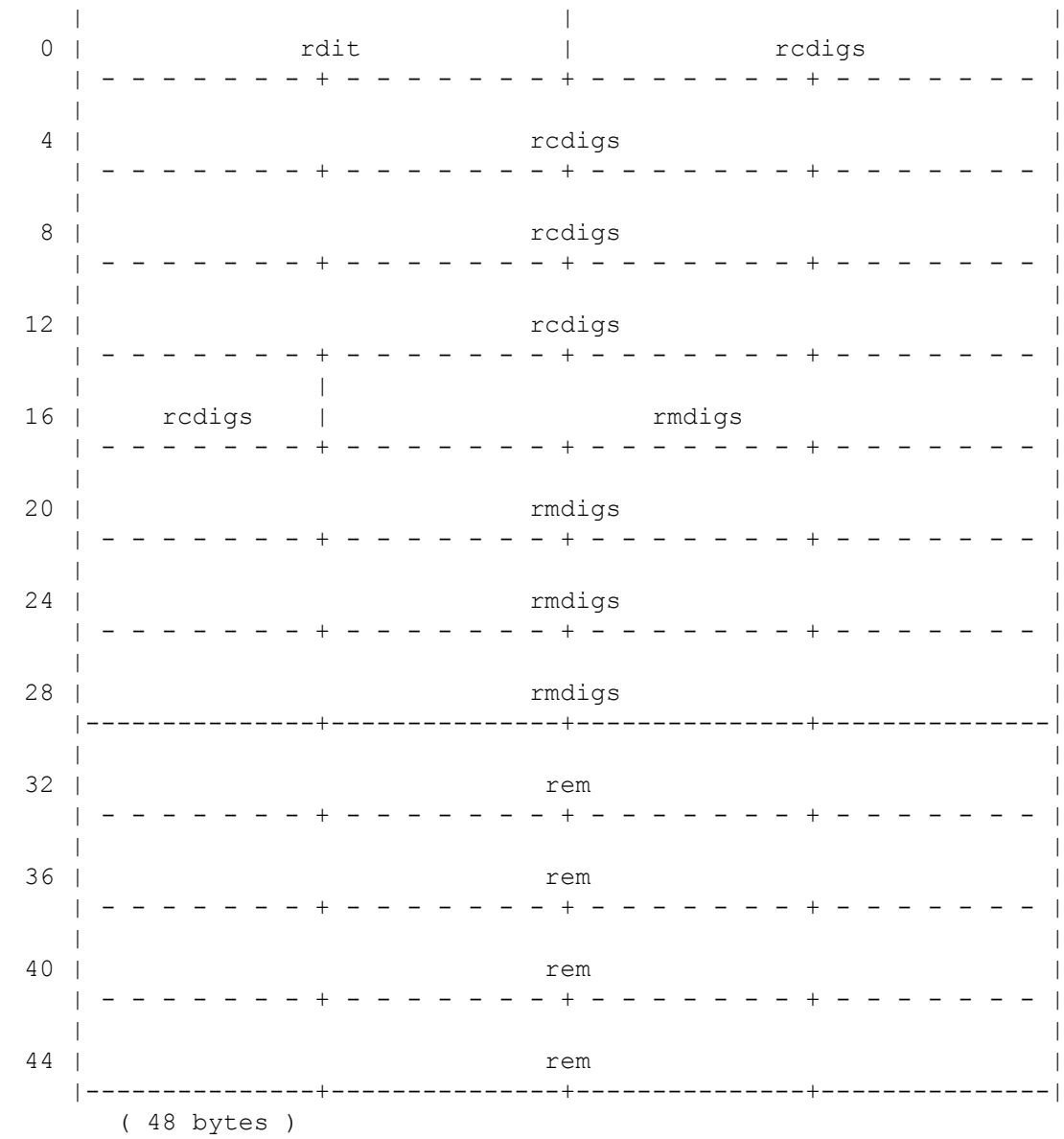


## 4. Population Rules for RLrc_rdrmk

**Relation Description**
Remaining digit interpreter table (RDIT) remarks.

Every tuple in this relation exists as a comment, in correspondence with a tuple existing in the relation RC_RDIT. Populated if there is a tuple in relation RC_RDIT.

**Attribute: rdit**

**Fullname:** Remaining Digit Interpreter Table

**Attribute Description** rdit - See general information.

**Attribute: rcdigs**

**Fullname:** rc digits

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**Attribute Description** rcdigs - The previous digit string gotten from RC_RDIT.

**Attribute: rmdigs**

**Fullname:** remaining digits

**Attribute Description** rmdigs - The remaining digits of the digit string that may indicate an alternate dialing plan.

**Attribute: rem**

**Fullname:** Remark

**Attribute Description** Remark contains a remark about a corresponding tuple in relation RC_RDIT.

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# RC_SCRN

## 1. Description

Remarks associated with screening data.
This relation associates a remark, which contains up to 16 characters, with unique screening index--destination index combinations in RLrt_scrning.

This is a virtual update relation. The root storage relation is RLscrn_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation RC_SCRN

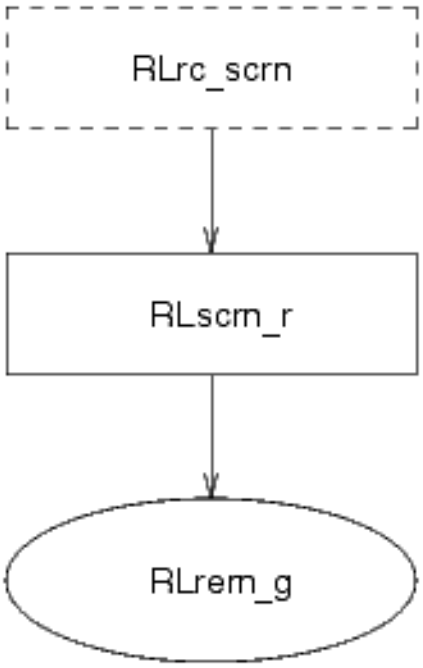


**Figure 1 Virtual Relation RC_SCRN**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
RC_SCRN     relid = 192   DBSTATIC   DBACC_OPV   DBNOTODD  LP      RCDATA
     rem         DMTEXT       (array [ 16 ] of char )
     dest_x      DMDESTIDX    (ushort: 12)     <--- key
     screen_x    DMSCRNIDX    (ushort: 12)     <--- key
         User, Compacted and Stored Tuple Layout    RC_SCRN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |                                                            |
  0 |                              rem                           |
```

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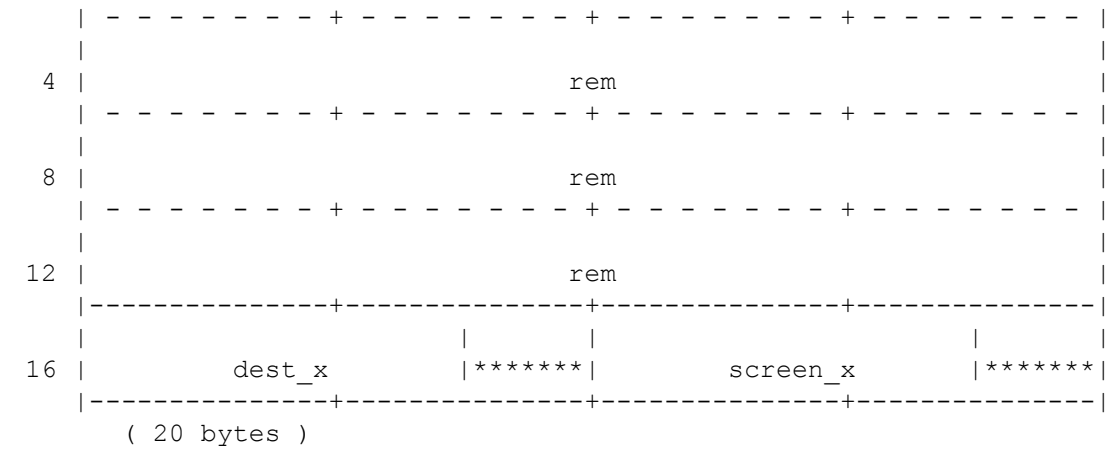


## 4. Population Rules for RLrc_scrn

**Relation Description**
Screening Index Remarks.

This relation associates a remark, which contains up to 16 characters, with unique screening index--destination index combinations in RLrt_scrning.
There is a tuple in this relation for every unique combination of screening index and destination index in RLrt_scrning (that is, RLrt_scrning.dest_x and RLrt_scrning.screen_x ). The uniqueness of the combination of these two attribute values is stressed since as many as three tuples in RLrt_scrning can have the same dest_x and screen_x. This is due to the fact that RLrt_scrning.prefix is a key attribute, along with screen_x and dest_x, and assumes one of three values.

**Attribute: dest_x**

**Fullname:** Destination Index

**Attribute Description** This is the destination index taken from RLrt_scrning.dest_x.

**Attribute: screen_x**

**Fullname:** Screen Index

**Attribute Description** This is the screening index taken from RLrt_scrning.screen_x.

**Attribute: rem**

**Fullname:** Remark

**Attribute Description** The remark for the screen index, destination index combination is stored as an array of up to 16 ASCII characters. If no remark is associated with the keys, then the array is set to NULL ('\0').

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# RC_SERVM

## 1. Description

Recent change message register assignment control where each tuple has a utilization service class and a user count.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 1024 |
| page level | 0 |

## 3. Field Layout

```
RC_SERVM    relid = 693   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     port        DMGPORT      (struct)  <--- key
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     usrcount    DMSHORT      (short)
     sermsg      DMSERVCLASS  (enum)
         User, Compacted and Stored Tuple Layout   RC_SERVM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============  port ============+===============|
    |                               |                |               |
  0 |              member           |***************|     module    |
    |===============+===============+===============+===============|
    |                               |                |               |
  4 |             usrcount          |     sermsg     |***************|
    |---------------+---------------+----------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLrc_servm

**Relation Description**
rc_servm is for message registers in two applications, see main description.

Each rc_servm tuple is created exclusively for only one of the following two reasons:

(1) If an overflow message register is assigned to a multi-line hunt group, then the rt_mhg relation attribute rt_mhg.reg_port is the key to rc_servm
(see the following port). If rt_mhg.reg_port is NULL then no rc_servm tuple should exist. There should be at the most one rc_servm tuple per rt_mhg relation tuple.

(2) If a message register is assigned to one or more hotel/motel lines, then the fchotmot relation attribute fchotmot.mregister is the key to rc_servm (see the following port). There should be at most one rc_servm tuple for every identical value of the fchotmot.mregister attribute in the entire fchotmot relation.

Both types rc_servm tuples can be expected within this relation.

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The main description contains all relevant information.

**Attribute: port**

**Fullname:** Physical address of Message Register Circuit

**Attribute Description** This key attribute is divided into sub-attribute port.member and port.module. Member is the port name of a message register circuit. Module refers to the Switching Module in which this message register circuit is located.

**Attribute: port.member**

**Fullname:** Message Register Circuit

**Attribute Description** Identifies a message register circuit on a switching module.

**Attribute: port.module**

**Fullname:** Switching Module

**Attribute Description** Identifies which switching module the message register circuit is located on.

**Attribute: usrcount**

**Fullname:** User Count

**Attribute Description** This attribute should be zero if the 'sermsg' attribute is set to FC_MSGREG. This attribute must be non-zero if the 'sermsg' attribute is set to FC_HOTMOTL. For the non-zero case the count should be the number of FCHOTMOT relation tuples that are assigned the same.

**Attribute: sermsg**

**Fullname:** Message Register Usage

**Attribute Description** This attribute must be set to one of the following values so that recent change can tell which exclusive use the message register is intended for.
FC_HOTMOTL, if the message register is assigned to hotel/motel lines.
FC_MSGREG, if the message register is assigned as a multi-line hunt overflow message register.

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# RC_SFG

## 1. Description

Store the make busy key and busy lamp, required for the review operation by the simulated facility group view mapping function vrtsfg.c

This is a virtual update relation. The root storage relation is RLrcsfg_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation RC_SFG.

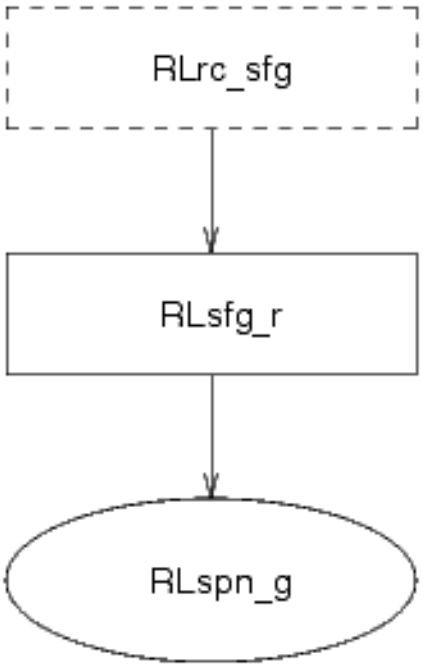


**Figure 1 Virtual Relation RC_SFG**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
RC_SFG      relid = 577   DBSTATIC   DBACC_OPV   DBNOTODD  LP      RCDATA
     mkbusykey   DMSPN        (array [ 10 ] of char )
     busylamp    DMSPN        (array [ 10 ] of char )
     grpnum      DMGRUPNM     (ushort: 11)  <--- key
         User, Compacted and Stored Tuple Layout RC_SFG
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |                                                            |
  0 |                          mkbusykey                         |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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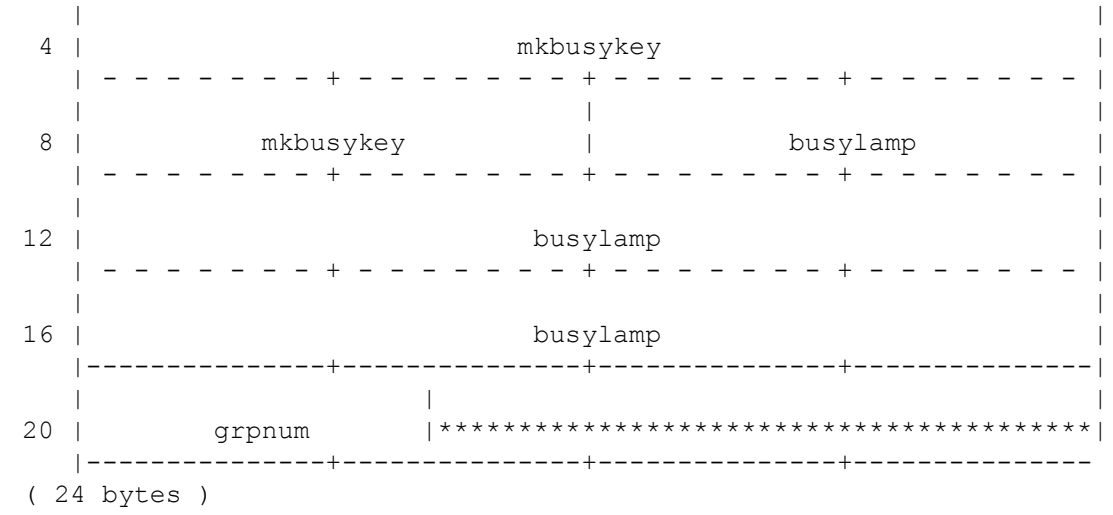


## 4. Population Rules for RLrc_sfg

**Relation Description**
Recent change (RC) information for Simulated Facility Groups.

Store the make busy key and busy lamp, required for the review operation by the Simulated Facility Group view.

**Attribute: grpnum**

**Fullname:** Group number.

**Attribute Description** Indicates the group number of this SFG.

**Attribute: mkbusykey**

**Fullname:** Make busy key.

**Attribute Description** Indicates the make busy key associated with this SFG.
Range: 1 to 9 digits of '0'-'9'.

**Attribute: busylamp**

**Fullname:** Busy lamp.

**Attribute Description** Indicates the busy lamp associated with this SFG.
Range: 1 to 9 digits of '0'-'9'.

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# RC_SGPDN

## 1. Description

MUPH subgroup DNs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 600 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
RC_SGPDN    relid = 540   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     portgrp     DMPORTGRP    (struct)     <--- key
         grpnum      DMGRPNUM     (ushort)
 (a)     grptype     DMPTYPE      (enum: 1)
     subgrp      DMUNS4       (ushort: 4)     <--- key
     tn          DMLOCDN      (struct)     <--- compacted
         noc         DMNOC        (ushort: 8)
         digits      DMLOCDIG     (array [ 4 ] of char )
            User Tuple Layout      RC_SGPDN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+=========== portgrp ===========+===============|
    |                                |             | |               |
  0 |              grpnum            |*************|a|***************|
    |===============+===============+===============+===============|
    |       |                                                        |
  4 | subgrp|********************************************************|
    |===============+=============  tn =============+===============|
    |               |               |                                |
  8 |***************|      noc      |             digits             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                |                                |
 12 |             digits             |********************************|
    |===============+===============+===============+===============|
       ( 16 bytes )
     portgrp     DMPORTGRP    (struct)     <--- key
         grpnum      DMGRPNUM     (ushort)
 (a)     grptype     DMPTYPE      (enum: 1)
     subgrp      DMUNS4       (ushort: 4)     <--- key
     tn          DMCLOCDN     (struct)     <--- compacted
         noc         DMNOC        (ushort: 8)
         dig3        DMUNS4       (ushort: 4)
         dig1        DMUNS4       (ushort: 4)
         dig4        DMUNS4       (ushort: 4)
         dig2        DMUNS4       (ushort: 4)
          Compacted Tuple Layout   RC_SGPDN
```

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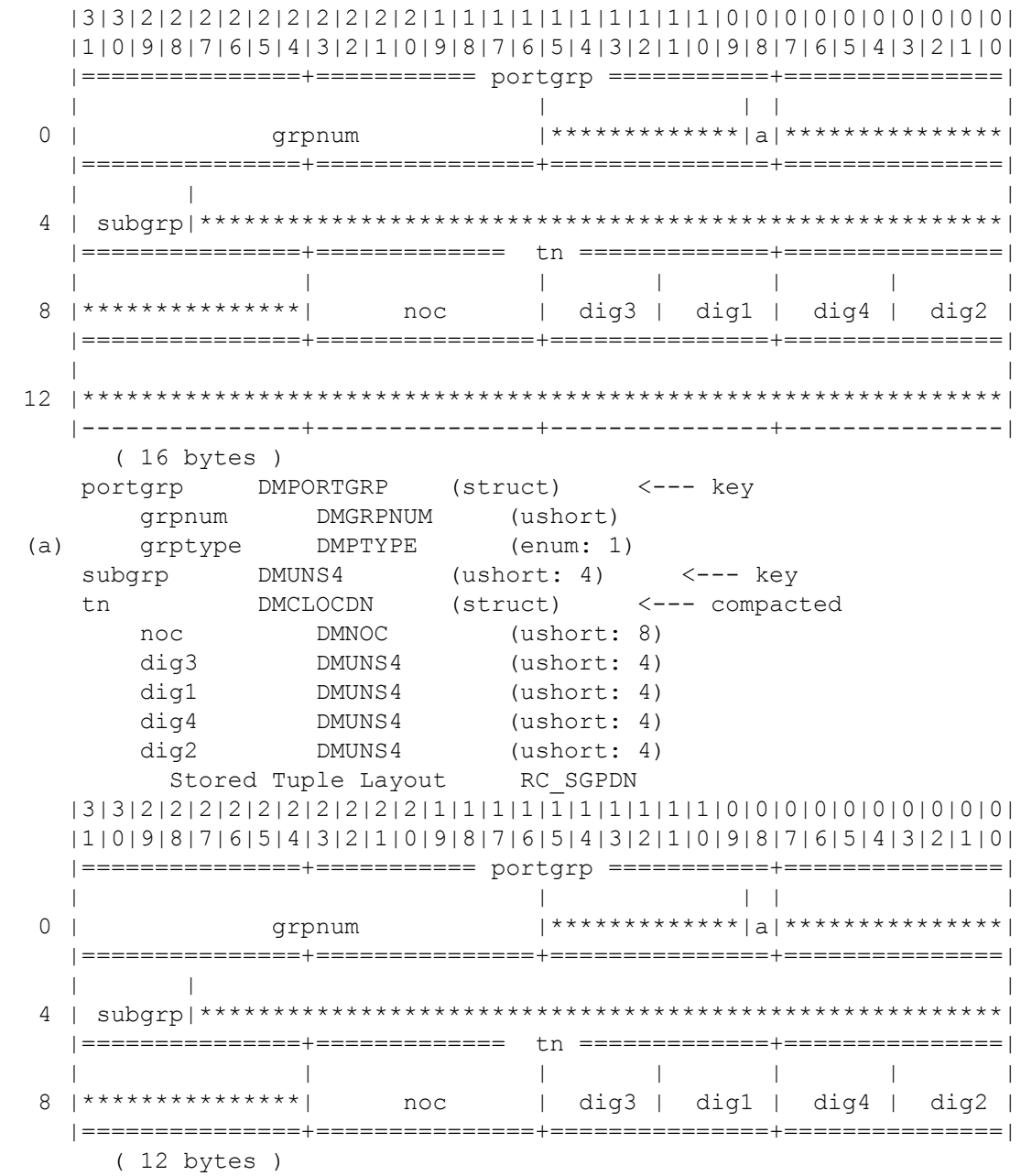


## 4. Population Rules for RLrc_sgpdn

**Relation Description**
This relation is used to store tn.noc and digits for a MUPH or ISAT multi-line hunt group.

For MUPH a subtn's from 1 to 6 may be assigned while for ISAT subtn's 1 to 8 may be used.
This relation is used only for ISAT and MUPH multi-line hunt groups.

**Attribute: portgrp**

**Fullname:** Multi-line hunt group number and type.

**Attribute Description** The multi-line hunt group number is used to link all members of a given type

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of hunting. The group type indicates what type of group will be used for the given hunt type. These groups may be for trunks or lines, for this relation only the group type for lines may be used.

**Attribute: portgrp.grpnum**

**Fullname:** Multi-line Hunt group number.

**Attribute Description** The multiline hunt group number is a decimal number from 1 to AVMLHGRPS() and it used to identify the specific hunting group to which members may be assigned.

**Attribute: portgrp.grptype**

**Fullname:** Multiline hunt group type.

**Attribute Description** The group type indicates what type of hunting is being used for this group number. The group type indicates if the group is to be used for trunks or lines, only the group type of TM_LINE may be used.

**Attribute: subgrp**

**Fullname:** MUPH/ISAT multi-line hunt sub group.

**Attribute Description** The MUPH multi-line hunt sub group may be assign a decimal number from 1 to 6 to indicate what sub group the directory number is assigned. The ISAT multi-line hunt sub group has 2 additional sub groups so it may assign a number from 1 to 8.

**Attribute: tn**

**Fullname:** Subgroup Directory Number

**Attribute Description** A directory number is used for each of the subgroups that may be used for the ISAT or MUPH hunt type. These directory numbers are used when a member is assigned to the group. Depending on the member number being assigned a different subgroup directory number is then used. A block or group of member numbers are valid for a given subgroup.

**Attribute: tn.noc**

**Fullname:** Normalized Office Code assigned to this subgroup

**Attribute Description** The normalized office code is one of the attributes which is used on the *5ESS*®-2000 switch to determine the directory number.

**Attribute: tn.digits**

**Fullname:** Last four digits assigned to this subgroup

**Attribute Description** The last four digits is one of the attributes which is used on the *5ESS*®-2000 switch to determine the directory number.

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# RC_SPID

## 1. Description

uspid assigned relation.
This relation, which is used for Recent Change, contains all USPIDs assigned on the switch as well as a mapping of USPID to SM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 376786 |
| expected number of tuples | 268 |
| density | 80 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
RC_SPID     relid = 1898  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     uspid       DMUSPID      (struct)     <--- key
         digcnt      DMDCNT18     (uchar: 5)
         dig1        DMBCD        (ushort: 4)
         dig2        DMBCD        (ushort: 4)
         dig3        DMBCD        (ushort: 4)
         dig4        DMBCD        (ushort: 4)
         dig5        DMBCD        (ushort: 4)
         dig6        DMBCD        (ushort: 4)
         dig7        DMBCD        (ushort: 4)
         dig8        DMBCD        (ushort: 4)
         dig9        DMBCD        (ushort: 4)
         dig10       DMBCD        (ushort: 4)
         dig11       DMBCD        (ushort: 4)
         dig12       DMBCD        (ushort: 4)
         dig13       DMBCD        (ushort: 4)
         dig14       DMBCD        (ushort: 4)
         dig15       DMBCD        (ushort: 4)
         dig16       DMBCD        (ushort: 4)
         dig17       DMBCD        (ushort: 4)
         dig18       DMBCD        (ushort: 4)
     fipmap      DMFIP_MAP    (struct)
 (a)     cfg_grp     DMBOOL       (enum: 1)
 (b)     shared      DMBOOL       (enum: 1)
 (c)     tks         DMBOOL       (enum: 1)
 (d)     eds         DMBOOL       (enum: 1)
 (e)     mds         DMBOOL       (enum: 1)
 (f)     ckt_mlhg    DMBOOL       (enum: 1)
 (g)     pkt_mlhg    DMBOOL       (enum: 1)
 (h)     tmf         DMBOOL       (enum: 1)
 (i)     pvcs        DMBOOL       (enum: 1)
 (j)     ekts        DMBOOL       (enum: 1)
 (k)     ness        DMBOOL       (enum: 1)
 (l)     pasc        DMBOOL       (enum: 1)
```

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```
 (m)     scp_alw     DMBOOL       (enum: 1)
 (n)     spare2      DMBOOL       (enum: 1)
 (o)     spare3      DMBOOL       (enum: 1)
 (p)     spare4      DMBOOL       (enum: 1)
    module      DMMODULE     (ushort: 8)
        User, Compacted and Stored Tuple Layout    RC_SPID
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============ uspid ============+===============|
    |         |                     |       |       |       |       |
  0 |  digcnt |*********************|  dig1 |  dig2 |  dig3 |  dig4 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
  4 |  dig5 |  dig6 |  dig7 |  dig8 |  dig9 | dig10 | dig11 | dig12 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |               |
  8 | dig13 | dig14 | dig15 | dig16 | dig17 | dig18 |***************|
    |===============+===========  fipmap ===========+===============|
    | | | | | | | | | | | | | | | |                                 |
 12 |a|b|c|d|e|f|g|h|i|j|k|l|m|n|o|p|*********************************|
    |===============+===============+===============+===============|
    |               |                                               |
 16 |     module    |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
domain alRC_SPID  struct  (3 sub-attributes)
        uspid       .0fake       (struct)
            digcnt      .0.fake      (uchar: 5)
            dig1        .1.fake      (ushort: 4)
            dig2        .2.fake      (ushort: 4)
            dig3        .3.fake      (ushort: 4)
            dig4        .4.fake      (ushort: 4)
            dig5        .5.fake      (ushort: 4)
            dig6        .6.fake      (ushort: 4)
            dig7        .7.fake      (ushort: 4)
            dig8        .8.fake      (ushort: 4)
            dig9        .9.fake      (ushort: 4)
            dig10       .10.fake     (ushort: 4)
            dig11       .11.fake     (ushort: 4)
            dig12       .12.fake     (ushort: 4)
            dig13       .13.fake     (ushort: 4)
            dig14       .14.fake     (ushort: 4)
            dig15       .15.fake     (ushort: 4)
            dig16       .16.fake     (ushort: 4)
            dig17       .17.fake     (ushort: 4)
            dig18       .18.fake     (ushort: 4)
        count       unsigned short (ushort)
        module      .20.fake     (ushort)

        Structure Layout      alRC_SPID
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============ uspid ============+===============|
    |         |                     |       |       |       |       |
```

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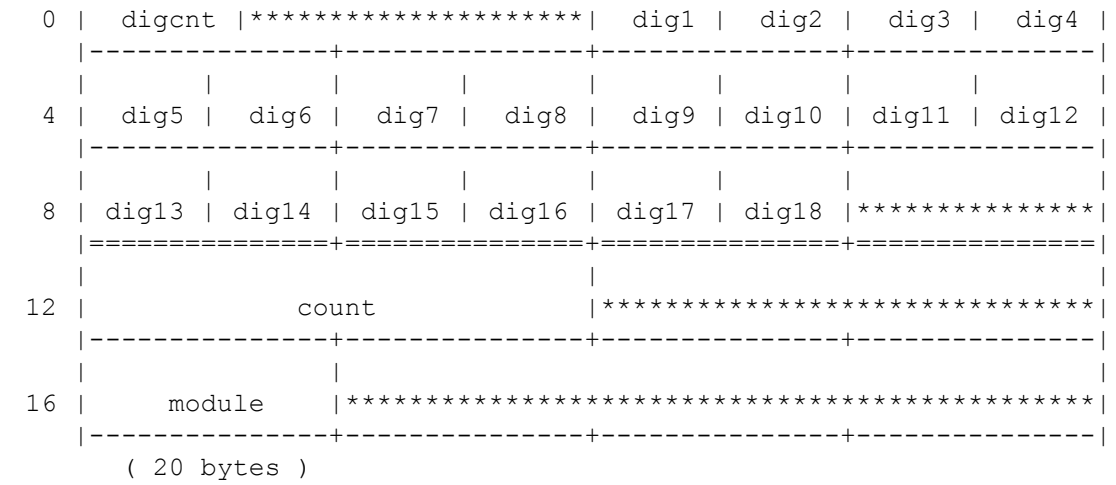


## 4. Population Rules for RLrc_spid

**Relation Description**
Recent Change service profile identifier.

This relation contains a list of USPIDs on the switch.

This relation, which is used for Recent Change, contains all USPIDs assigned on the switch as well as a mapping of USPID to SM. For custom ISDN interface the USPID can be anywhere from 1 thru 10 digits. For standard ISDN interface the USPID can be anywhere from 1 thru 18 digits. No duplicate USPIDs are allowed in the *5ESS* ®-2000 switch database.

**Attribute: uspid**

**Fullname:** User Service Profile Identifier.

**Attribute Description** The USPID indicates the Service Provider assigned User Service Profile IDentifier.

For custom ISDN interface the USPID can be anywhere from 1 thru 10 digits. For standard ISDN interface the USPID can be anywhere from 1 thru 18 digits. No duplicate USPID allowed in the *5ESS*®-2000 switch database.

(The uspid digit count is generated, not specifically input).

New USPID = uspid.digcnt,uspid.dig1, uspid.dig2,...uspid.dig18.

Digits will be right justified when less than 18 are specified, that is, least significant digit stored in uspid.dig18. Unused digits = 0. Digits will be stored in BCD.

**Attribute: uspid.digcnt**

**Fullname:** The USPID digit count

**Attribute Description** Gives the digit count for the specified USPID digits

**Attribute: uspid.dig[*]**

**Fullname:** Digit 1, Digit 2, .. Digit 17, Digit 18

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**Attribute Description** Digits 1 thru 18 of USPID

**Attribute: module**

**Fullname:** Module number on which the user specified by USPID is located and where RLspid is located.

**Attribute Description** This attribute is the SM on which the user is assigned.

**Attribute: fipmap**

**Fullname:** Fully Initializing Protocol bit map

**Attribute Description** This attribute is used by RC to indicate that the User Service Order Profile (USOP) can only be accessed by terminals that support FIPs. If the alternate (count) is greater than zero, then RLspid.fip_req is set to DBYES, which means that the USOP can only be accessed by terminals that support FIPs.

The following capabilities imply the USOP will require a FIP terminal:

```
Feature                                          BRI Type
-------                                          --------
1)  Feature Buttons (cfg_grp).                   Custom & Standard
2)  Terminal Management (tmf).                   Custom
3)  Terminal Key System (tks)                    Custom & Standard
4)  Message Desk Service (mds).                  Custom & Standard
5)  Electronic Directory Service (eds).          Custom
6)  X.25 Permanent Virtual Circuit         Custom & Standard Service with
out fixed TEI (pvcs).
7)  Membership in a circuit MLHG (ckt_mlhg)   Custom & Standard
8)  Membership in a packet MLHG without an individual DN (pkt_mlhg).   Cu
stom & Standard
9)  Shared (shared).                             Custom & Standard
10) Electronic Key Telephone Service (ekts).  Standard
11) Network Element Service Signaling (ness). Standard
12) Personal Communications Access on a C-Interface (pasc).       Standar
d
13) Service Control Point Allowed (scp_alw).  Standard
```

**Attribute: fipmap.cfg_grp**

**Fullname:** Configuration Group assignment (Feature Buttons)

**Attribute Description** This attribute is used to indicate if any feature buttons are assigned to this USOP. Feature button assignment is indicted by the presence of a configuration group assignment in RLis_term.config.

**Attribute: fipmap.shared**

**Fullname:** Shared

**Attribute Description** This attribute is used to indicate if this USOP's primary DN is shared. It's setting is determined from RLis_line.shared.

**Attribute: fipmap.tks**

**Fullname:** Terminal Key Systems Capabilities

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**Attribute Description** This attribute is used to indicate if this USOP has terminal key system capabilities assigned - aka multiple DNs. Multiple DNs in this context means more than one DN where each DN has it's own appearance on the terminal, as opposed to multidn where more than one DN is assigned to a single appearance on the terminal. It's setting is determined from RLis_term.ltport_cnt.

**Attribute: fipmap.eds**

**Fullname:** Electronic Directory Service

**Attribute Description** This attribute is used to indicate if the electronic directory service (EDS) is assigned to this USOP. EDS can be assigned to the line or through a BFG. The attribute is set if the EDS feature is assigned to the line or BFG RLdn_feats tuples for this USOP.

**Attribute: fipmap.mds**

**Fullname:** Message Desk Service

**Attribute Description** This attribute is used to indicate if message desk service (MDS) is assigned to this USOP. MDS can be assigned to the line or through a BFG. The attribute is set if the MDS feature is assigned to the line or BFG RLdn_feats tuple for this USOP.

**Attribute: fipmap.ckt_mlhg**

**Fullname:** Circuit MLHG without an individual DN

**Attribute Description** This attribute is used to indicate if this USOP is assigned as a member of a circuit multiline hunt group. MLHG membership is determined by population of RLpggpmap for this USOP's port and party.

**Attribute: fipmap.pkt_mlhg**

**Fullname:** Packet MLHG without an individual DN

**Attribute Description** This attribute is used to indicate if this USOP is assigned as a Permanent packet D or On-Demand B packet member of a packet multiline hunt group and does not have an individual DN, thus, requiring a FIP terminal. Packet multiline hunt group members with individual DNs do not require a FIP terminal.

**Attribute: fipmap.tmf**

**Fullname:** Terminal Management Feature

**Attribute Description** This attribute is used to indicate if terminal management (TM) features are assigned to this USOP. Terminal management features are indicated by the type of terminal indicated in RLis_term.cpetype. Terminal types B, D and Attendant are TM types.

**Attribute: fipmap.pvcs**

**Fullname:** X.25 Permanent Virtual Circuit Service

**Attribute Description** This attribute is used to indicate if permanent virtual circuits (PVCs) assigned to this USOP require a FIP terminal. If a fixed TEI is provisioned with the PVCs, use of the USOP does not require a FIP terminal. For a USOP with PVCs and no fixed TEI provisioned, a FIP terminal is required. The population of fipmap.pvcs is based on RLpsx25ln.pvc_h_lcn for this

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USOP's ph_number, ph_cn and party.

**Attribute: fipmap.ekts**

**Fullname:** Electronic Key Telephone Service

**Attribute Description** This attribute is used to indicate if this USOP is used by an EKTS terminal. It is set based on RLis_term.ekts. The attribute exists as a separate item from fipmap.tks and fipmap.shared because it is possible to assign EKTS without any of the typical key system features (such as, shared DN, multiple DNs).

**Attribute: fipmap.ness**

**Fullname:** Network Element Services Signaling

**Attribute Description** This attribute is used to indicate if network element services signaling (NESS) is assigned to this USOP. NESS assignment is determined by the presence of a tuple in RLaspnport for this USOP (keyed by circuit lport of primary DN). NESS is an ASPN BRCS module feature.

**Attribute: fipmap.pasc**

**Fullname:** Personal Communications Access Service on a C-Interface

**Attribute Description** This attribute is used to indicate if this USOP has either personal communication service (PCS) or wireless centrex (WCTX) access on a C-Interface. In RLis_term.pasc, the value PASC_PCSI indicates that this USOP has PCS service, and the value PASC_WCTX indicates that this USOP has wireless centrex assigned.

**Attribute: fipmap.scp_alw**

**Fullname:** Service Control Point

**Attribute Description** This attribute is used to indicate if this USOP has service control point (SCP) capability. Setting of the attribute is from RLrt_dntran.scp_alw for the primary DN.

**Attribute: fipmap.spare2**

**Fullname:** RC_SPID/(fipmap) spare 2

**Attribute Description** Spare fip_map domain attribute.

**Attribute: fipmap.spare3**

**Fullname:** RC_SPID/(fipmap) spare 3

**Attribute Description** Spare fip_map domain attribute.

**Attribute: fipmap.spare4**

**Fullname:** RC_SPID/(fipmap) spare 4

**Attribute Description** Spare fip_map domain attribute.

**Defines:** "db/DMparty.h"

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# RC_TKTXC

## 1. Description

Recent change storage of trunk transmission level information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
RC_TKTXC    relid = 214   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCDATA
     tranclass   DMUNS16      (ushort)  <--- key
     fetyp       DMTLP        (enum: 4)
     netlp       DMTLP        (enum: 4)
 (a) fetlcls     DMUNS3       (ushort: 3)
 (b) trnktyp     DMTRNKTYP    (enum: 2)
     trkclcnt    DMLONG       (long)
         User, Compacted and Stored Tuple Layout   RC_TKTXC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |       |       |     |   |     |
  0 |           tranclass           | fetyp | netlp |  a  | b |*****|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           trkclcnt                            |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLrc_tktxc

**Relation Description**
RC storage of trunk transmission level information.

The values for fetyp, netlp, trnktyp and fetlcls should be determined by customer (operating company) engineers. These population rules are provided to aid the customer engineer in setting the values of these parameters to obtain the desired digital loss insertion characteristics for each trunk transmission class. Specific values for each of these parameters are suggested for an application with no special transmission requirements.

See GI_cpe for related loss information.
RLrc_tktxc is no longer used by international and should not be populated for generic 5EE4(1) or later. It will be deleted in 5EE4(2).

**Attribute: tranclass**

**Fullname:** trunk transmission class.

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**Attribute Description** See Relation RLrc_trk.p (attribute: transclass) for population rules.

**Attribute: fetyp**

**Fullname:** Far end type.

**Attribute Description** The far end type gives the transmission level point of the far-end office. This is used in domestic applications to determine the digital loss to be inserted toward the line on trunk-line connections. An exception to this is that ISDN lines, including OSPS attendants, never receive digital loss except for conference connections.
The following layout shows the loss value given as a function of fetyp.

```
-------------------------------------------------------------| fety
p
             |TLPN3|TLPN2|TLPN1|TLP0 |TLP1 |TLP2 |TLP3 |TLP4 |TLP5 |
+------------+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| loss       |6 dB |5 dB |4 dB |3 dB |2 dB |1 dB |0 dB |7 dB |8 dB |
-------------------------------------------------------------------
The recommended values for fetyp are:
trunks:
TLP0  - far-end is local or tandem
TLPN2 - far-end is analog toll
TLPN3 - far-end is digital toll
For analog trunks:
TLP3  - all far-end connections.
```

**Attribute: netlp**

**Fullname:** Near end transmission level point (TLP).

**Attribute Description** The near end TLP is used to determine loss only on trunk-trunk connections. The valid values of netlp are TLP0 and TLPN3. If both trunks have a netlp of TLPN3, no digital loss is inserted in either direction. If either trunk in the connection has netlp set to TLP0, loss may be inserted when connecting a digital trunk to an analog trunk. The amount of loss is a function of trnktyp and fetlcls. See fetlcls for details. The suggested value for netlp is TLP0 for all trunks in a local *5ESS*®-2000 switch and for trunks that carry only local traffic in a local/toll *5ESS*®-2000 switch. It is suggested that netlp be set to TLPN3 for all trunks in a toll *5ESS*®-2000 switch and for trunks that carry at least some toll traffic in a local/toll *5ESS*®-2000 switch.

**Attribute: trnktyp**

**Fullname:** Trunk Type.

**Attribute Description** Trunk type is used in conjunction with fetlcls in determining loss on trunk-trunk connections when either trunk has a netlp equal to TLP0. See fetlcls for details.Trunk type has two valid values: DIGITAL and ANALOG.
It is recommended that trunks that use digital facilities throughout be set to DIGITAL and trunks that use analog facilities be set to ANALOG.

**Attribute: fetlcls**

**Fullname:** Far end toll class.

**Attribute Description** Far end toll class is used in conjunction with trnktyp to determine loss only on trunk-trunk connections when either trunk has its netlp set to TLP0. Far end toll class is a numerical value, 0-5, that identifies toll class of the far end office.

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```
5       - denotes local or tandem. This should also be used for
          tie trunks when the 5ESS-2000 switch is being used as a PBX.
          1,2,3,4 - denotes toll office. The following layout gives the
          digital loss that is inserted in trunk-trunk connections when
          either trunk has a 'netlp' other than TLPN3.
```

| FROM \ TO | local (fetlcls == 5) | | toll (fetlcls < 5) | |
|---|---|---|---|---|
| | analog | digital | analog | digital |
| local analog | 0 | 0 | 0 | 0 |
| local dig | 3 | 0 | 3 | 0 |
| toll analog | 0 | 0 | 0 | 0 |
| toll dig | 6 | 0 | 0 | 0 |

**Attribute: trkclcnt**

**Fullname:** Trunk class count.

**Attribute Description** The trunk class count contains a count of the number of trunks with this trunk transmission class.

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# RC_TNMLH

## 1. Description

Main TN of multiline hunt group. This relation is use to indicate when the TN is associated to a PKT or CKT MLHG, when the MLHG is global or local and the MLHG group number the main TN is associated with.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected number of tuples | 300 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
RC_TNMLH    relid = 2124  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     grpnum      DMGRUPNM     (ushort: 11)
 (a) gblgrp      DMBOOL       (enum: 1)
 (b) psflag      DMBOOL       (enum: 1)
     tn          DMLOCDN      (struct)  <--- key, compacted
         noc         DMNOC        (ushort: 8)
         digits      DMLOCDIG     (array [ 4 ] of char )
            User Tuple Layout      RC_TNMLH
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                     | | |                                     |
  0 |        grpnum       |a|b|*************************************|
    |===============+=============  tn =============+===============|
    |               |               |                                 |
  4 |***************|      noc      |             digits              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
    |                               |                                 |
  8 |             digits            |*********************************|
    |===============+===============+===============+===============|
       ( 12 bytes )
     grpnum      DMGRUPNM     (ushort: 11)
 (a) gblgrp      DMBOOL       (enum: 1)
 (b) psflag      DMBOOL       (enum: 1)
     tn          DMKLOCDN     (struct)  <--- key, compacted
         noc         DMNOC        (ushort: 8)
         index       DMUNS14      (ushort: 14)
          Compacted Tuple Layout   RC_TNMLH
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                     | | |                                     |
  0 |        grpnum       |a|b|*************************************|
    |===============+=============  tn =============+===============|
    |               |               |                               |   |
  4 |***************|      noc      |           index               |***|
```

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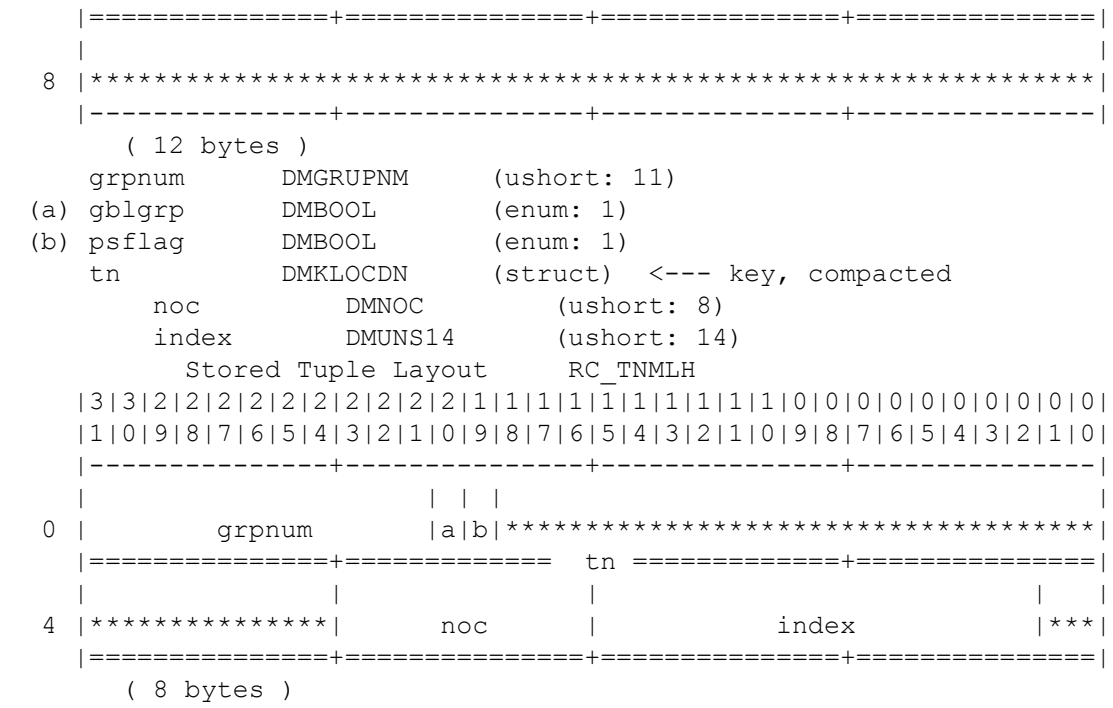


## 4. Population Rules for RLrc_tnmlh

**Relation Description**
Main TN of multi-line hunt group to multiline hunt group number.

**Attribute: tn.noc**

**Fullname:** Normalized office code

**Attribute Description** NOC code assigned to phone number of multi-line hunt group.

**Attribute: tn.digits**

**Fullname:** Directory digits

**Attribute Description** Last four digits assigned to phone number of group.

**Attribute: gblgrp**

**Fullname:** global or local group

**Attribute Description** Indicates if the MLHG is a global group (DBYES) or local group (DBNO). If gblgrp is DBYES, then the MLHG is a global group (member ports can be spread across the SMs), else the group is a local group (members ports are consolidated on one SM).

```
When RLrt_mhg.gblgrp == DBNO then,
   for all tuples in GROUP_PORT where:
     GROUP_PORT.portgrp.grpnum = RT_MHG.grpnum
     GROUP_PORT.port.module = X
        where 'X' must be a single switching module number.
```

for all tuples in PSGP_PRT where: PSGP_PRT.grpnum = RT_MHG.grpnum

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PSGP_PRT.module = X where 'X' must be a single switching module number.

**Attribute: psflag**

**Fullname:** Packet switching MLHG indicator

**Attribute Description** Packet switching MLHG indicator.

**Attribute: grpnum**

**Fullname:** Multi-line hunt group number

**Attribute Description** Multi-line hunt group number.

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# RC_TRK

## 1. Description

Remarks and CLCI's associated with trunk view.

This is a virtual update relation. The root storage relation is RLrctrk_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation RC_TRK.

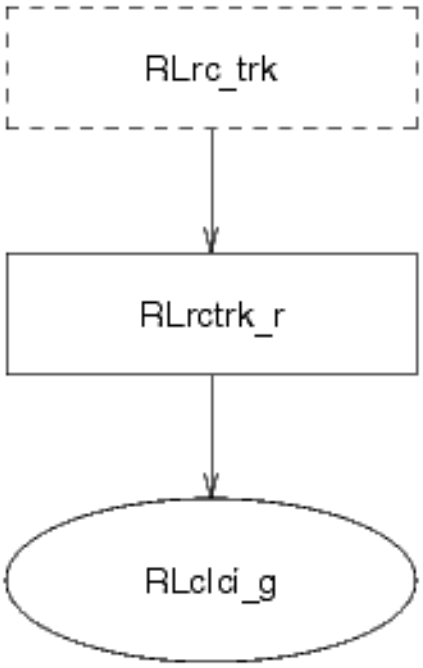


**Figure 1 Virtual Relation RC_TRK**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | CCS |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
RC_TRK      relid = 168   DBSTATIC   DBACC_OPV   DBNOTODD  LP      CCS
     transclass  DMUNS16      (ushort)
     member      DMMEM        (ushort: 12)     <--- key
     clcitrk     DMCTXT4      (array [ 4 ] of char )
     portgrp     DMPORTGRP    (struct)     <--- key, compacted
         grpnum      DMGRPNUM     (ushort)
 (a)     grptype     DMPTYPE      (enum: 1)
            User Tuple Layout    RC_TRK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                       |       |
```

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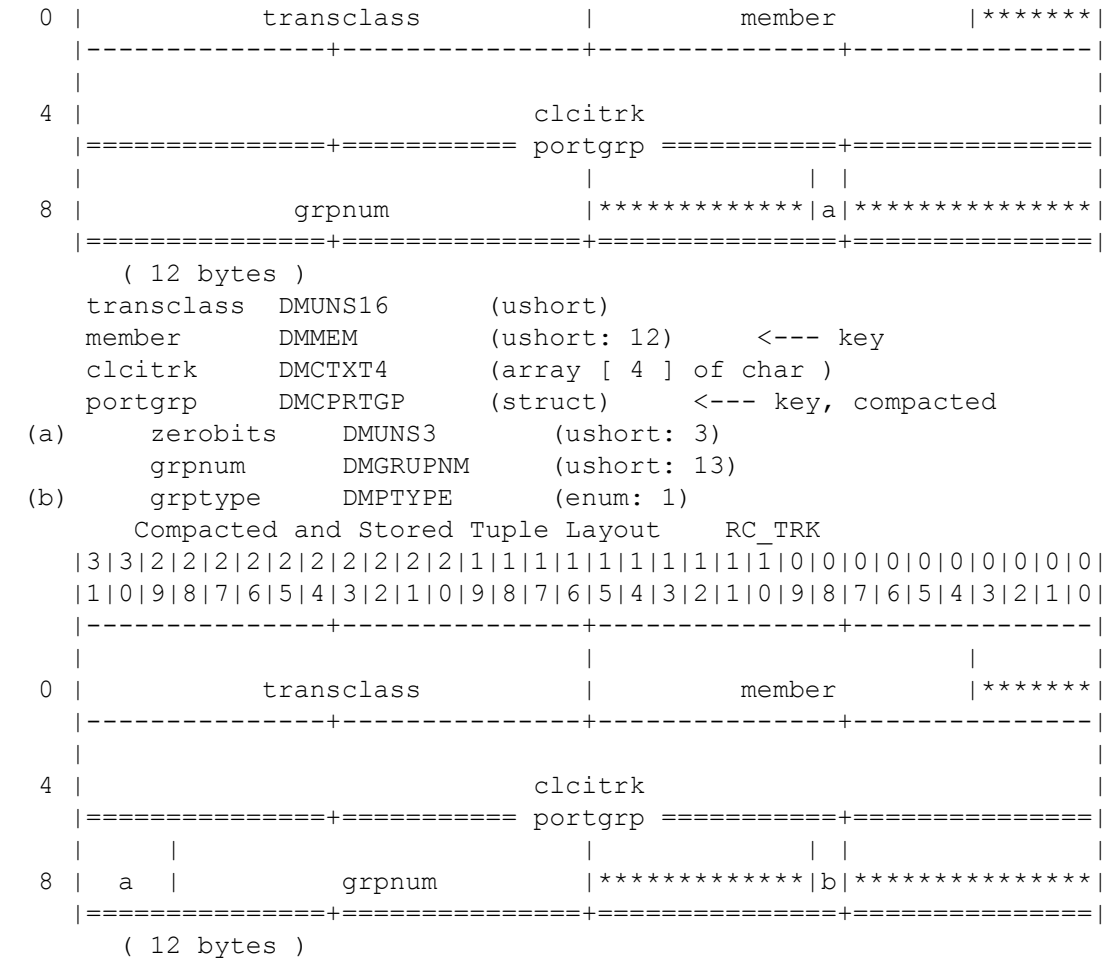


## 4. Population Rules for RLrc_trk

**Relation Description**
Recent Change remarks and CLCI code.

Remarks and CLCI's associated with trunk view.

RLrc_trk (Internal Protocal - PSPKT_TRK Port Group Members)

DESCRIPTION:

This relation must be populated to define PSPKT_TRK Packet Port Group member information required by the Recent Change/Verify (RC/V) subsystem.

This relation is the Recent Change version of the RLpsgp_prt relation. There should be a one-to-one correspondence between tuples in this relation and those in RLpsgp_prt (and RLpsprt_gp).

QUANTITY OF TUPLES:

One tuple per PSPKT_TRK Port Group Member in RLpsgp_prt.

TUPLE SEMANTICS:
```
portgrp.grpnum  - PSPKT_TRK Port Group number (from RCTGRPRK)
                  There must be a corresponding entry in
```

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```
                  RCTGRPRK.
portgrp.grptype - TM_TRK
member          - PSPKT_TRK Port Group member (from PSGP_PRT)
clcitrk         - Allowed values are 0-16382 and NULL
transclass      - Values are 1-99 and must correspond with a
                  digital transmission class.
```

RLrc_trk (X.75/X.75'- PSX75_TK/PSX75P_TK Port Group Members) DESCRIPTION:

This relation must be populated to define PSX75_TK and PSX75P_TK Packet Port Group member information required by the Recent Change/Verify (RC/V) subsystem.

This relation is the Recent Change version of the RLpsgp_prt relation. There should be a one-to-one correspondence between tuples in this relation and those in RLpsgp_prt (and RLpsprt_gp).

QUANTITY OF TUPLES:

One tuple per PSX75_TK or PSX75P_TK Port Group Member in RLpsgp_prt.

TUPLE SEMANTICS:

- portgrp.grpnum - PSX75_TK or PSX75P_TK Port Group number (from RCTGRPRK). There must be a corresponding entry in RCTGRPRK for either type.
- portgrp.grptype - TM_TRK
- member - PSX75_TK or PSX75P_TK Port Group member (from PSGP_PRT)
- clcitrk - Allowed values are 0-16382 and NULL
- transclass - Values are 1-99 and must correspond with a digital transmission class.

RLrc_trk (Local Test Desk Test Trunks - LTD)

DESCRIPTION:

LTD test trunks provide the interface to external testing systems (LTD, MLT, Fortel, etc.) for metallic loop testing of lines. These trunks may be configured as incoming trunks (LTD to line tests) or outgoing trunks (line to LTD tests).

A separate OUTGOING LTD trunk group is required for each 'metallic community.' Thus, each remote module (RSM, ORM, TRM, MMRSM cluster, etc.) which is not metallically linked to the host office must have its own OUTGOING LTD trunk group to provide LTD access from the lines within that module/cluster.

Corresponding tuples must appear in the following relations:

```
RLrt_trkg    - keyed on trunk group
RLrctgrprk   - keyed on trunk group
RLgroup_port - keyed on trunk group and member
RLpggpmap    - keyed on trunk port
RLfc_porttyp - keyed on trunk port (servclass = TMTSTK)
RLfc_trunk   - keyed on trunk  port
RLmtbtst     - keyed on trunk port
```

QUANTITY OF TUPLES:

A tuple is required in RLrc_trk for each LTD test trunk (incoming or outgoing) in the SM.

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TUPLE SEMANTICS:

```
portgrp.grpnum (KEY)  - Incoming or Outgoing LTD trunk group number
portgrp.grptype (KEY) - TM_TRK
member (KEY)          - trunk group member number
clcitrk               - not applicable
transclass            - Default value, not applicable
```

RLrc_trk (DCTU trunk groups members)

DESCRIPTION:

Population rules regarding DCTU trunk groups members are presented.

NOTE:

(1) DCTU trunk group members are, in reality, logical test ports and as such do not have real TRUNK hardware associated with them. DCTU trunk group members are associated with physical DCTU port circuits. There does not exist associated trunk data as contained in these attributes defined for physical DCTU port circuits. Therefore, the values used for attributes clcitrk and transclass should be the default values.

A much better solution is for this relation NOT to be populated if the trunk group is a DCTU trunk group. This change would probably require changes in RCV and ODA.

(2) For each separate DCTU trunk group number (portgrp.grpnum) the DCTU trunk group MUST be defined in the relations RLRT_TRKG and RLRCTGRPRK. See the population rules for RLrt_trkg and RLrctgrprk.

(3) For each DCTU trunk group number, there MUST be a minimum of four (4) members. The maximum number can only be determined from the number of DCTUs that are part of any DCTU trunk group. The number of members in any DCTU trunk group should always be divisible by four.

(4) A DCTU trunk group CAN have members from any number of DCTUs in a HOST *5ESS*®-2000 switch processing entity. For each HOST DCTU trunk group member within a HOST DCTU trunk group, there MUST be a corresponding entry in RLFC_PORTTYP in the particular SM where the physical DCTUPORT circuit is defined. See the population rules for RLfc_porttyp and RLcktdata.

(5) For each RSM DCTU trunk group member within a RSM DCTU trunk group, there MUST be a corresponding entry in RLFC_PORTTYP in the SAME RSM where the physical DCTUPORT circuit is defined. See the population rules for RLcktdata and RLfc_porttyp.

(a) The same restrictions that apply to RSM stated previously also apply to ORM/TRM.

(6) For each DCTU trunk group member, there MUST be a corresponding entry in RLQKEYPORT. This rule includes DCTUs in both the HOST *5ESS*®-2000 switch processing entity and RSMs See the population rules for RLqkeyport.

(7) For each DCTU trunk group member, there MUST be a corresponding entry in RLPGGPMAP. This rule includes DCTUs in both the HOST *5ESS*®-2000 switch processing entity and RSMs. See the population rules for RLpggpmap.

(8) There can be one fully equipped DCTU per SM that contains 12 DCTUPORTs. There is one DCTUPORT LTP defined for each DCTUPORT. There is one DCTU trunk group member per DCTUPORT LTP. There can be 192 DCTUs in an office. Therefore, the theoretical maximum number of tuples in this relation owing to DCTU trunk group members is:

( 1 DCTU/SM) x ( 192 SMs/office) x ( 12 DCTUPORTs/DCTU) x

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= 2,304 members/office owing to the DCTU

QUANTITY OF TUPLES:

One (1) tuple per DCTU trunk group member in an office.

TUPLE SEMANTICS:

```
portgrp.grpnum (KEY)  - DCTU trunk group number
Must be entry in RLrt_trkg and RLrctgrprk
portgrp.grptype (KEY) - TM_TRK
member (KEY)          - DCTU trunk group member number
clcitrk               - Default value, not applicable
transclass            - Default value, not applicable
```

RLrc_trk (ISTF trunk groups members)

DESCRIPTION:

Integrated Services TEst Function (ISTF) trunk group members are really Logical Test Ports (LTP) and do not have hardware dedicated to them. These members are instead associated with the channels serving the ISTF. There is no associated RLfc_trunk data for these LTPs and therefore, the values used for attributes clcitrk and transclass should be the default values.

This relation is the Recent Change version of the RLrt_trkg relation.

QUANTITY OF TUPLES:

One (1) tuple per ISTF trunk group member in an office.

TUPLE SEMANTICS:

```
portgrp.grpnum (KEY)  - ISTF trunk group number.  There is only one group
                        number per ISTF LTP type. There must be a
                        corresponding entry in RLrt_trkg and RLrctgrprk
portgrp.grptype (KEY) - TM_TRK
member (KEY)          - ISTF trunk group member number.  The relation RListf
                        has a count field for each LTP type.  These attributes
                        identify how many RLrc_trk.member exist per ISTF
                        board.  There must be a corresponding entry in
                        RLpggpmap and RLgroup_port.
```

clcitrk - Default value, not applicable

transclass - Default value, not applicable

RLrc_trk (for DSU2-RAF/SAS Port Group Members)
DESCRIPTION:

This relation must be populated to define DSU2-RAF/SAS Port Group member information required by the Recent Change/Verify (RC/V) subsystem. There is no associated RLfc_trunk data for these circuits and therefore, the values used for attributes clcitrk and transclass should be the default values.

This relation is the Recent Change version of the RLgroup_port relation. There should be a one-to-one correspondence between tuples in this relation and those in RLgroup_port (and RLpggpmap).

QUANTITY OF TUPLES:

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One tuple per RAF/SAS Port Group member.

TUPLE SEMANTICS:

```
portgrp.grpnum  - RAF/SAS Port Group number (from RT_TRKG)
                  There must be a corresponding entry in
                  RT_TRKG and RCTGRPRK.
portgrp.grptype - TM_TRK
member          - RAF/SAS Port Group member number (from GROUP_PORT)
clcitrk         - not applicable, set to NULL string
transclass      - not applicable, set to zero (0)
```

RLrc_trk (for TM_TOPAS Port Group Members)
DESCRIPTION:

This relation must be populated to define TM_TOPAS Port Group member information required by the Recent Change/Verify (RC/V) subsystem.

This relation is the Recent Change version of the RLgroup_port relation. There should be a one-to-one correspondence between tuples in this relation and those in RLgroup_port (and RLpggpmap).

QUANTITY OF TUPLES:

One tuple per TM_TOPAS Port Group member.

TUPLE SEMANTICS:

```
portgrp.grpnum  - TM_TOPAS Port Group number (from RT_TRKG)
                  There must be a corresponding entry in
                  RT_TRKG and RCTGRPRK.
portgrp.grptype - TM_TRK
member          - TM_TOPAS Port Group member number (from GROUP_PORT)
clcitrk         - as defined by office
transclass:     - DIGITAL
                  RLrc_trk (for TM_RMSD3 Port Group Members)
```

DESCRIPTION:

This relation must be populated to define TM_RMSD3 Port Group member information required by the Recent Change/Verify (RC/V) subsystem.

relation. There should be a one-to-one correspondence between tuples in this relation and those in RLgroup_port (and RLpggpmap).

QUANTITY OF TUPLES:

One tuple per TM_RMSD3 Port Group member.

TUPLE SEMANTICS:

```
portgrp.grpnum  - TM_RMSD3 Port Group number (from RT_TRKG)
                  There must be a corresponding entry in
                  RT_TRKG and RCTGRPRK.
portgrp.grptype - TM_TRK
member          - TM_RMSD3 Port Group member number (from GROUP_PORT)
clcitrk         - as defined by office
transclass:     - DIGITAL"
```

**Attribute: member**

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**Fullname:** Member Number.

**Attribute Description** Trunk group member number. Same as relation GROUP_PORT or relation PSGP_PRT for packet switching trunk group members.

**Attribute: portgrp**

**Fullname:** Port Group.

**Attribute Description** This attribute is divided into two attributes: (grpnum, grptype).

**Attribute: portgrp.grpnum**

**Fullname:** Group number.

**Attribute Description** Trunk group identifier. Use all trunk group members assigned in relation GROUP_PORT or in relation PSGP_PRT for packet switching trunk groups.

**Attribute: portgrp.grptype**

**Fullname:** Group type.

**Attribute Description** Same as relation GROUP_PORT or relation PSGP_PRT for packet switching trunk groups.

**Attribute: clcitrk**

**Fullname:** Trunk CLCI.

**Attribute Description** Common language circuit identifier. Arbitary number (0 - 16382) optionally assigned to each member of trunk groups. This field will be set to NULL for all unassigned members.
For CCS trunks (that is RT_TRKG.in_sigtype = DBCCIS6, DBTUP7, DBISUP7, or RT_TRKG.out_sigtype = DBCCIS6, DBTUP7, DBISUP7), this field is mandatory.

All CCIS trunks (RT_TRKG.in_sigtype = DBCCIS6 or RT_TRKG.out_sigtype = DBCCIS6) in the set of trunk groups that have the same pair of values for RCTGRPRK.ne_clli and RCTGRPRK.fe_clli must have unique values for RC_TRK.clcitrk.

All CCS7 trunks (RT_TRKG.in_sigtype = DBTUP7 or DBISUP7 OR RT_TRKG.out_sigtype = DBTUP7 or DBISUP7) in the set of trunk groups that have the same values for RT_TRKG.pci (that is, the set of trunk groups that have the same pair of values for RT_TRKG.opc and RT_TRKG.dpc) must have unique values for RC_TRK.clcitrk.

For domestic ISUP7 trunks (RLRT_TRKG.in_sigtype = DBISUP7 or RLRT_TRKG.out_sigtype = DBISUP7), the clcitrk attribute is an equivalent value to RLlab7prt.cic and has a range of 0 - 16382.

For wideband (NxDS0) ISUP7 trunks, the clcitrk attribute must equal the CIC of the first member of the wideband trunk block plus the modulus of the member number and 24. This ensures that the CICs are assigned in sequential order for groups of 24 trunks. A trunk block is a group of 24 sequential members within the same wideband trunk group starting with member 0 or any multiple of 24.

**Attribute: transclass**

**Fullname:** Transmission class.

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**Attribute Description** Trunk transmission class. If trunk group member is of type

```
RAF(RAFEN) with service class fc_rafdta,fc_rafannc,fc_rafctr:
ACJACK     with service class tm_acjack:
LTD        with serviceclass tm_tstk:
LTP        with service class dgltpttf, dgppmltp, dn_els_ttf,
                              tmdftacltp, tmltpdctu, tm_alit,
                              tm_callbk, tm_dcjack, tm_ictc,
                              tm_msu, tm_ogtc, tm_otottf, tm_rotl,
                              tm_s96ctttf, tm_wsttf, tm_tone,
                              tm_istflb, tm_istfxmit, tmdstpgtc
```

then transclass has a value of zero. Otherwise, transclass has a value of 1-99.

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# RC_TUR

## 1. Description

Data for EBPS feature to determine best time slot to user ratio for selecting a PH and PH channel for the user

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2048 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| ks key store | AUTO |
| permutation type | perm |

## 3. Field Layout

```
RC_TUR      relid = 1141  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCDATA
     module      DMMODULE     (ushort: 8)     <--- key, not stored
     shelf       DMUNS3       (ushort: 3)     <--- key, not stored
     unitno      DMUNITNO     (ushort: 8)     <--- key, not stored
     unittype    DMUNITTYPE   (enum: 7)     <--- key, not stored
     odb_ts      DMUCHAR      (uchar)
     odb_usr     DMUCHAR      (uchar)
         User and Compacted Tuple Layout     RC_TUR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |     |         |               |             | |
  0 |     module    |shelf|*********|     unitno    |   unittype  |*|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  4 |     odb_ts    |    odb_usr    |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     odb_ts      DMUCHAR      (uchar)
     odb_usr     DMUCHAR      (uchar)
           Stored Tuple Layout   RC_TUR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |     odb_ts    |    odb_usr    |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLrc_tur

**Relation Description**
Time slot to User ratio for ODB ISCN assignment.

This relation is used by Recent Change when selecting an ODB ISCN. RC, given a LCEN, will take the LCENs ISLU or IDCU, or LCKEN for ISLU2, or AIUEN for AIU, and search the relation for all tuples that match the ISLU(2), IDCU, or AIU. After looking at all the tuples, RC will select the tuple with the highest time slot/user ratio. This way

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all the users are load balanced across the ISLU, IDCU, or AIU. After selecting the tuple, RC will use the shelf to search RLrc_odb for a match on its shelf. If none is found, RC will pick the next highest ratio RLrc_tur tuple that has a different shelf and search RLrc_odb again. This will continue until a tuple is found in RLrc_odb or there are no more tuples in RLrc_tur to look at.

This is a Recent Change relation.

**Attribute: module**

**Fullname:** SM module number

**Attribute Description** Identifies a specific SM for an ISLU(2), IDCU, or AIU.

**Attribute: shelf**

**Fullname:** PSU shelf number

**Attribute Description** This is the PSU shelf the ISLU(2), IDCU, or AIU is connected to via a pidb.

**Attribute: unitno**

**Fullname:** Intergrated services Line Unit or Integrated Digital Carrier Unit Number, or Access Interface Unit.

**Attribute Description** Identifies a specific line unit on an SM.

**Attribute: unittype**

**Fullname:** Type of unit (ISLU(2), AIU, IDCU).

**Attribute Description** Identifies unit type on an SM.

**Attribute: odb_ts**

**Fullname:** Time slots reserved for ODB.

**Attribute Description** This attribute is the sum of the odb_min attribute values in the RLdpidb_pt relation for all DPIDBs that go to the ISLU(2)/IDCU/AIU, SHELF pair (keys to this relation).

**Attribute: odb_usr**

**Fullname:** ODB users

**Attribute Description** Indicates number of users assigned to ODB for this ISLU(2)/IDCU/AIU SHELF. **Defines:** "db/DMunitno.h"

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# RC_UNIDX

## 1. Description

Recent change (RC) only relation used to track highest ID used for conflict table and digit table identifiers in UN, in order to assign new tables a unique identifier. The identifiers of those attributes will be initialized by ODA for new offices and retrofit offices and then modified by RC.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| intermediate page | 256 |
| data page size | 256 |
| page level | 3 |

## 3. Field Layout

```
RC_UNIDX    relid = 534   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     ar_gpid     DMMCC_FID    (ushort)  <--- key
     hi_cnfltbl  DMUNS16      (ushort)
     hi_digtbl   DMUNS16      (ushort)
     hi_sds      DMUNS16      (ushort)
     hi_nsc      DMUNS16      (ushort)
     hi_onoff    DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout   RC_UNIDX
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             ar_gpid           |            hi_cnfltbl         |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |           hi_digtbl           |              hi_sds           |
    |---------------+---------------+---------------+---------------|
    |                               |                 |             |
  8 |              hi_nsc           |    hi_onoff     |*************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLrc_unidx

**Relation Description**
RC uniform numbering (UN) identifier index.

This relation is used to track the highest identifier used for UN relations, in order to assign new tables a unique identifier.

There are private dialing relations whose attribute values are INTERNALLY generated keys into related relation tuples. In order to correctly allocate subsequent keys, RC/V must have this relation initially populated by ODA. The rules for index generation are presented in the usage section for the corresponding index attribute.

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For each ars customer with private dialing, the current highest key values generated for conflict table, digit table, selective destination screening table, on-to-off conversions table, and network service codes table are maintained.

**Attribute: ar_gpid**

**Fullname:** Automatic Route Service group identifier

**Attribute Description** This attribute indicates the ARS group identifier.

**Attribute: hi_cnfltbl**

**Fullname:** highest conflict table identifier

**Attribute Description** This attribute indicates the last id used as a conflict table identifier. Each time a conflict situation exists for a set of digit strings in RLundtre associated with a particular ar_gpid-un_dpln pair, a value RLundtre.next = RLuncnflct.table must be generated and inserted into those relation tuples.

The set if generated conflict index values must be contiguous and start with the value one (1). The highest generated value must be stored in RLrc_unidx.hi_cnfltbl. If no conflict table indices have been generated for an ar_gpid, then RLrc_unidx.hi_cnfltbl will be zero (0) and there will be no tuples in RLuncnflct keyed by that ar_gpid. This is highly unlikely, but the check should be made for consistency.

**Attribute: hi_digtbl**

**Fullname:** highest digit table identifier

**Attribute Description** This attribute indicates the last ID used as a digit table identifier. When RLundpinfo.da_strt is NULL when keyed by ar_gpid and un_dpln, that indicates that there is no RLundtre table entry for that ars group using that dialing plan for digit strings of any length. This case requires that an index value be generated so that RLundpinfo.da_strt = RLundtre.previous.

If RLundpinfo.da_strt is not NULL, then a table index exists for this ar_gpid and un_dpln and supplies RLundpinfo.previous as a key into RLundtre.

The first digit position requires up to 12 RLundtre tuples, and each successive digit position requires up to 10 tuples.

Each digit position defines a RLundtre table for a given ar_gpid-un_dpln pair. If during population of a given digit string, an empty table (no populated tuples) is found, a new index value is generated such that RLundtre.next = RLundtre.previous between two tuples associated by consecutive digits in a digit string.

The set of generated digit table index values must be contiguous and start with the value one (1). The highest generated value must be stored in RLrc_unidx.hi_digtbl. If no digit table indices have been generated for an ar_gpid, then RLrc_unidx.hi_digtbl will be zero (0) and there will be no tuples in RLundpinfo or RLundtre keyed by that ar_gpid. This case is highly unlikely, but should be made for consistency.

**Attribute: hi_sds**

**Fullname:** highest selective destination table identifier

**Attribute Description** This attribute indicates the last id used as a digit table identifier for selective destination screening.

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When selective destination screening is indicated for a particular ar_gpid-un_dpln-digit string combination, an index value is generated such that RLundtre.conv_indx = RLunsds.previous. The set of generated sds table index values must be contiguous and start with the value one (1). The highest value generated must be stored in RLrc_unidx.hi_sds. If no sds table indices have been generated for an ar_gpid, RLrc_unidx.hi_sds will be zero (0) and there will be no tuples in RLunsds keyed by that ar_gpid.

**Attribute: hi_onoff**

**Fullname:** highest on to off conversion table identifier

**Attribute Description** This attribute indicates the last id used as a digit table identifier for on to off conversions.

When an on to off network number conversion for a given ar_gpid requires more than the RNX to determine the conversion tuple, an index value must be generated and assigned to an RLunonoff.table entry and corresponding RLunon_di.previous entry.

If there is already an RLunonoff tuple associated with this ar_gpid and rnx, then no index will be generated.
Note that the dialing plan is not considered since RLundtre is not accessed.

Each digit position (5 through 7) in the on-to-off digit string could require a table of up to 10 tuples in RLunon_di. If the next digit position is to be analyzed in a given string AND there is no tuple in RLunon_di for that table, THEN generate a new index value that will be assigned to an RLunon_di.next entry and corresponding RLunon_di.previous entry.

The set of generated on to off table index values must be contiguous and start with the value one (1). The highest value generated (for both RLunonoff and RLunon_di) must be stored in RLrc_unidx.hi_onoff. If there have not been any on to off table indices generated for an ar_gpid, then RLrc_unidx.hi_onoff will be zero (0) and there will be no tuples in RLunonoff keyed by that ar_gpid.

**Attribute: hi_nsc**

**Fullname:** highest network service code conversion table identifier

**Attribute Description** This attribute indicates the last id used as a digit table identifier for network service code conversion.
When a network service code conversion is indicated by a tuple in RLundtre, an index is generated for the ar_gpid-un_dpln pair associated with the conversion such that RLundtre.conv_indx = RLunnsc.conv_indx.

The set of generated nsc conversion table index values must be contiguous and start with the value one (1). The highest value generated must be stored in RLrc_unidx.hi_nsc. If there have not been any indices to the nsc conversion table generated for an ar_gpid, then RLrc_unidx.hi_nsc will be zero (0) and there will be no tuple in RLunnsc keyed by that ar_gpid.

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# RC_UNRMK

## 1. Description

Remark assoc. with private network digit interpreter view.

This is a virtual update relation. The root storage relation is RLunrmk_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation RC_UNRMK.

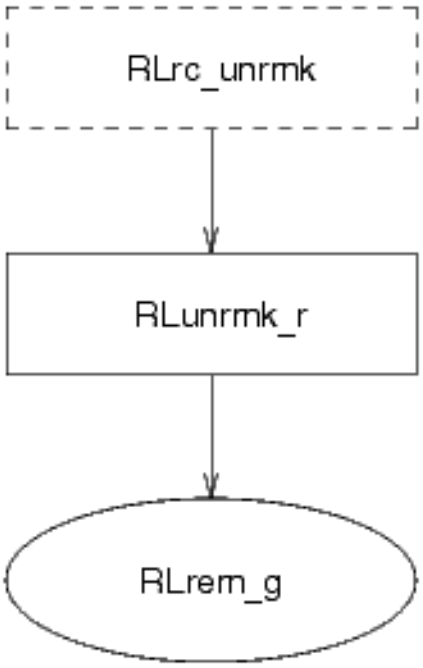


**Figure 1 Virtual Relation RC_UNRMK**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
RC_UNRMK    relid = 769   DBSTATIC   DBACC_OPV   DBNOTODD  LP      RCDATA
     ar_gpid     DMMCC_FID    (ushort)  <--- key
     rem         DMTEXT       (array [ 16 ] of char )
 (a) un_dpln     DMARSDP      (enum: 2)  <--- key
     inc_digs    DMDG18ST     (array [ 18 ] of char )  <--- key, compacted
            User Tuple Layout      RC_UNRMK
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |                             |                             |
  0 |            ar_gpid          |              rem            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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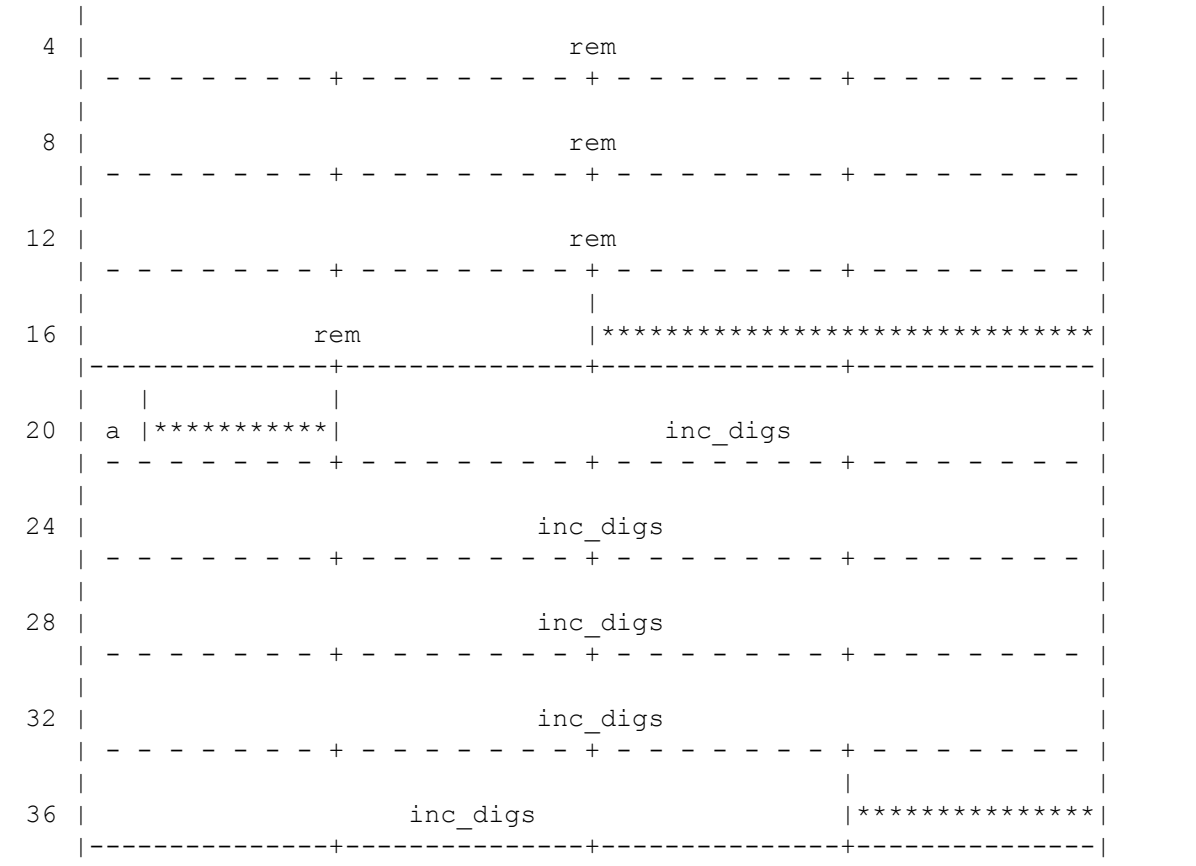
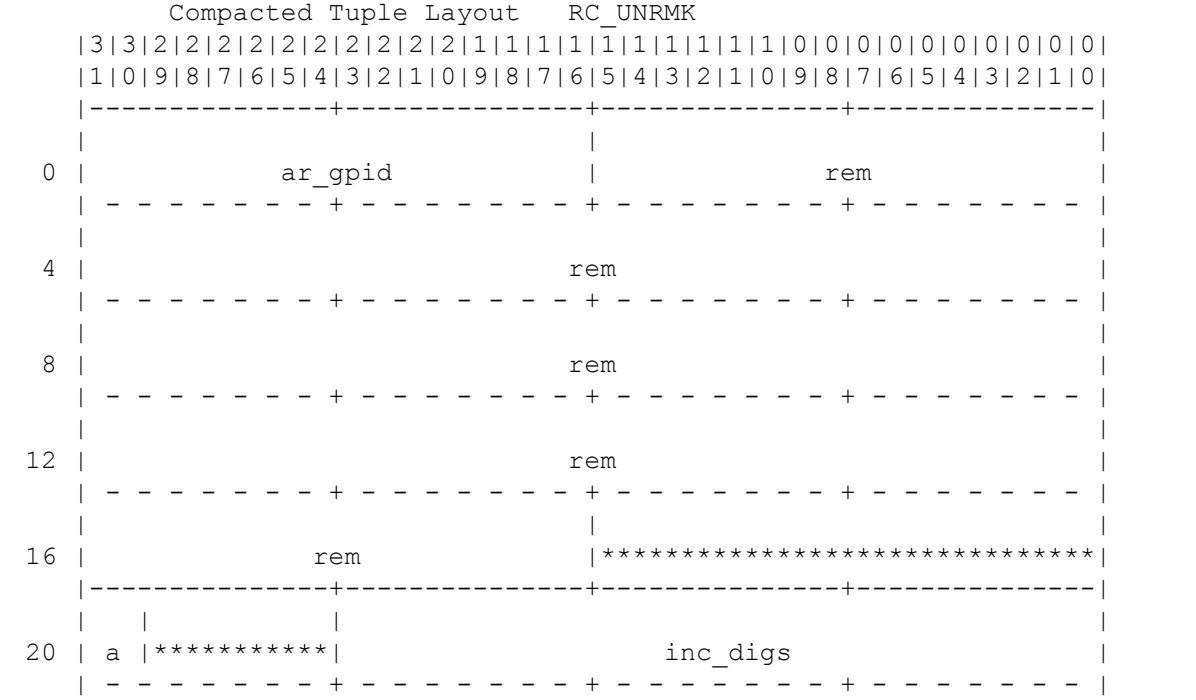
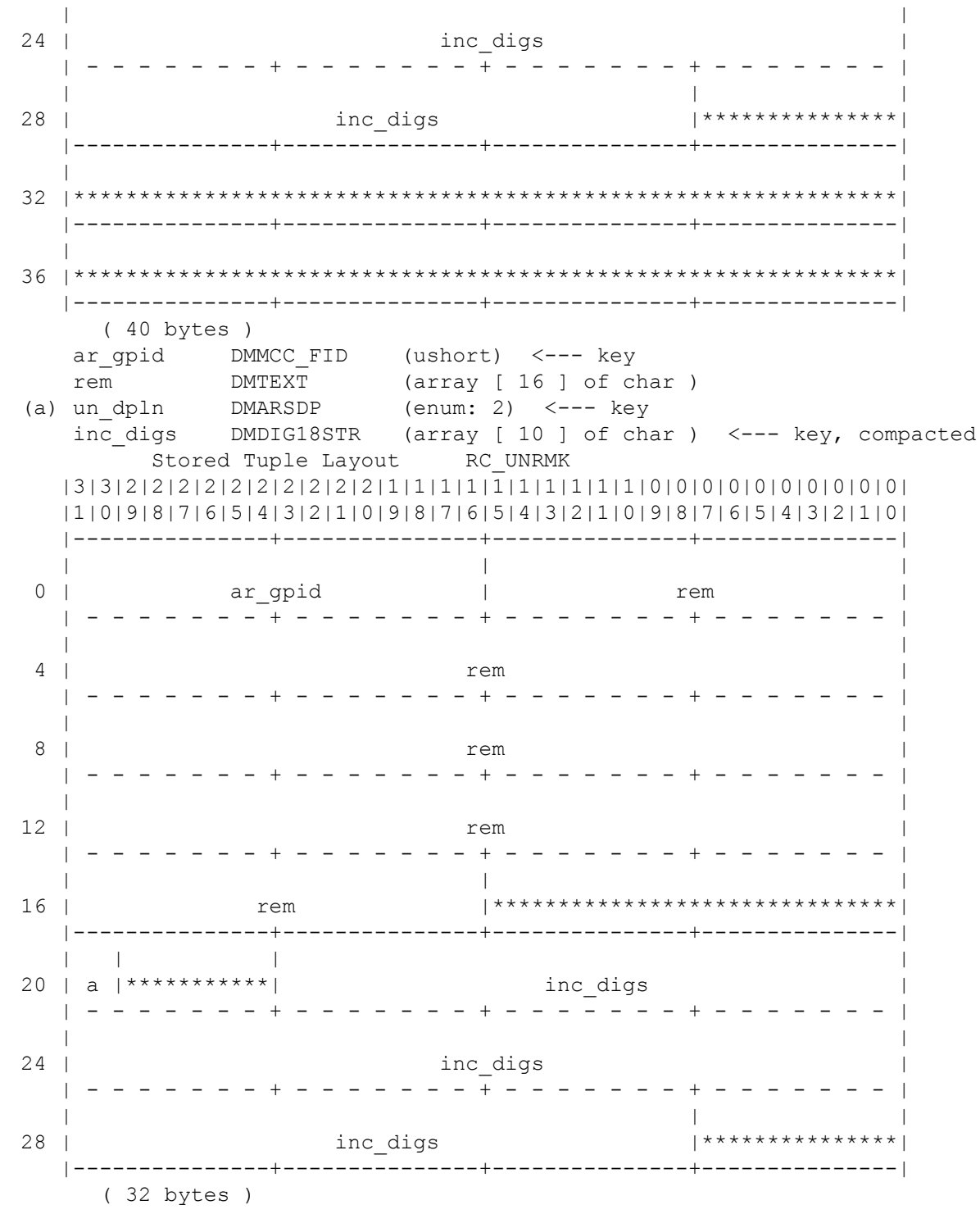



( 40 bytes )

ar_gpid DMMCC_FID (ushort) <--- key
rem DMTEXT (array [ 16 ] of char )
(a) un_dpln DMARSDP (enum: 2) <--- key
inc_digs DMDIG18STR (array [ 10 ] of char ) <--- key, compacted

Compacted Tuple Layout RC_UNRMK






## 4. Population Rules for RLrc_unrmk

**Relation Description**
Uniform Numbering remarks.

This relation provides access to descriptive remarks associated with an ars group, private dialing plan number, and digit string combination.

If the remark field is NULL, do not create a RLrc_unrmk tuple.
If the remark field is not NULL, then for each RLundtre tuple populated, there must be a correspondingly keyed RLrc_unrmk tuple populated.

**Attribute: ar_gpid**

**Fullname:** Automatic Route Selection group identifier

**Attribute Description** This attribute is the ARS group identifier: part one of the key to this relation from RLundtre.

**Attribute: un_dpln**

**Fullname:** Private Network Dialing Plan number

**Attribute Description** This attribute is the Private Network Dialing Plan number: part two of the key to this relation from RLundtre.

**Attribute: inc_digs**

**Fullname:** incoming digits string

**Attribute Description** This attributes is the incoming digits: part three of the key to this relation from RLundtre. The maximum value is 18 if the IDDD15 secured feature (SFID223) has been purchased and turned on, otherwise is 15.

**Attribute: rem**

**Fullname:** remark

**Attribute Description** This attribute contains the remark associated with the RLundtre tuple that keys into this relation.

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# RCACSR_Q

## 1. Description

This relation provides the pending Automatic Customer Station Rearrangement (ACSR) requests for service.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | ACSR |
| relation type | DBSTATIC |
| trigger function | RCacsr_q |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ks keystore | AUTO |

## 3. Field Layout

```
RCACSR_Q    relid = 1128  DBSTATIC   DBACC_CIND  DBPRAM    LP      ACSR
     port        DMPORT       (ushort)
     req_number  DMUNS10      (ushort: 10)     <--- key
 (a) status      DMQSTAT      (enum: 2)
 (b) non_epid    DMBOOL       (enum: 1)
 (c) ama_rec     DMBOOL       (enum: 1)
     targ_mod    DMMODULE     (ushort: 8)
     src_mod     DMMODULE     (ushort: 8)
     time_entry  DMUNLONG     (ulong)
     locdn       DMLOCDN      (struct)     <--- compacted
         noc         DMNOC        (ushort: 14)
         digits      DMLOCDIG     (array [ 4 ] of char )
            User Tuple Layout      RCACSR_Q
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                   |   | | |   |
  0 |              port             |     req_number    | a |b|c|***|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  4 |    targ_mod   |    src_mod    |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                           time_entry                          |
    |===============+============ locdn ============+===============|
    |   |                           |                               |
 12 |***|            noc            |             digits            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 16 |             digits            |*******************************|
    |===============+===============+===============+===============|
      ( 20 bytes )
     port        DMPORT       (ushort)
     req_number  DMUNS10      (ushort: 10)     <--- key
```

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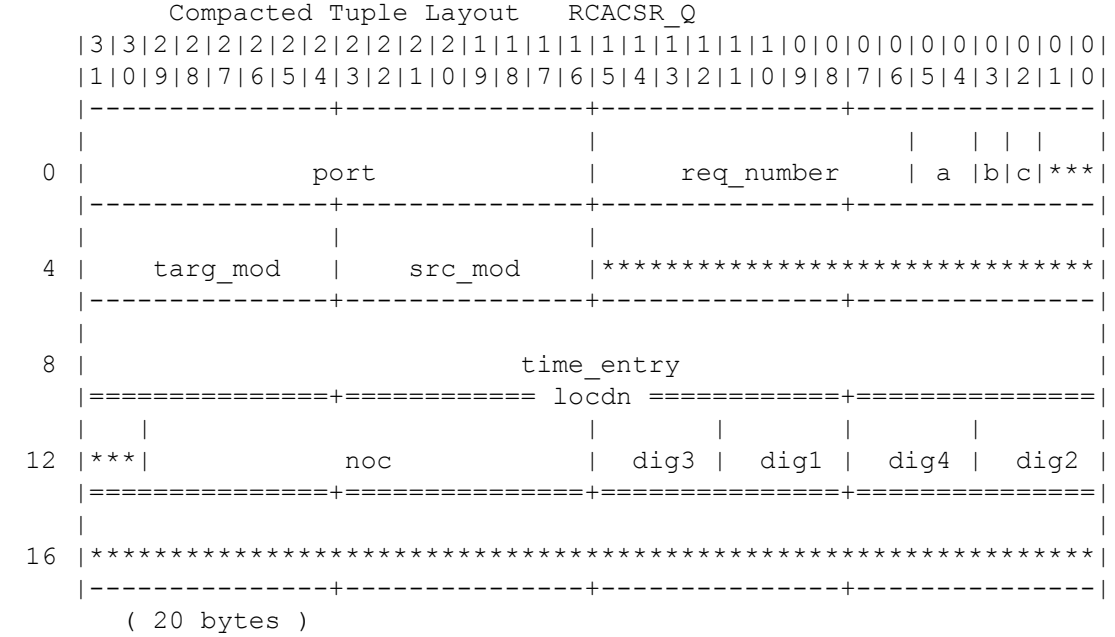
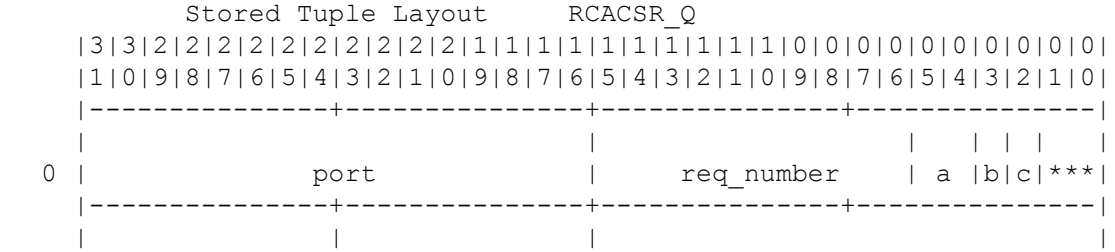
```
(a) status      DMQSTAT      (enum: 2)
(b) non_epid    DMBOOL       (enum: 1)
(c) ama_rec     DMBOOL       (enum: 1)
    targ_mod    DMMODULE     (ushort: 8)
    src_mod     DMMODULE     (ushort: 8)
    time_entry  DMUNLONG     (ulong)
    locdn       DMCLOCDN     (struct)     <--- compacted
        noc         DMNOC        (ushort: 14)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
```




```
      ( 20 bytes )
    port        DMPORT       (ushort)
    req_number  DMUNS10      (ushort: 10)     <--- key
(a) status      DMQSTAT      (enum: 2)
(b) non_epid    DMBOOL       (enum: 1)
(c) ama_rec     DMBOOL       (enum: 1)
    targ_mod    DMMODULE     (ushort: 8)
    src_mod     DMMODULE     (ushort: 8)
    time_entry  DMUNLONG     (ulong)
    locdn       DMCLOCDN     (struct)     <--- compacted
        noc         DMNOC        (ushort: 14)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
```

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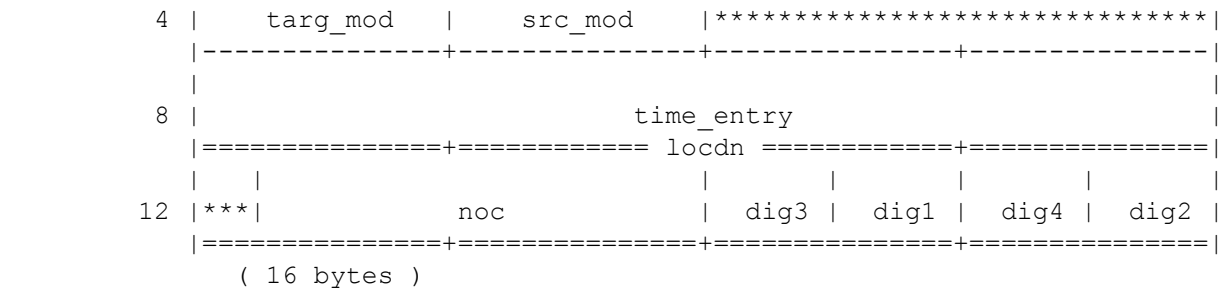


## 4. Population Rules for RLrcacsr_q

**Relation Description**
Automatic Customer Station Rearrangement (ACSR) queue.

This relation provides the pending ACSR requests for service (to move to new location).

**Attribute: req_number**

**Fullname:** request number

**Attribute Description** This number is used to service each ACSR request in the order it is received. At the time of entry of an ACSR request, the next sequential number will be assigned to this request by the RCasrsp process within the ranges specified in the following. When all the available numbers are all used, the RCasrsp process, reassigns the request numbers from the first number within the specified range.

**Attribute: locdn**

**Fullname:** Local directory number

**Attribute Description** This attribute consists of the NOC (normalized office code) and four directory number digits.

**Attribute: locdn.noc**

**Fullname:** Normalized office code

**Attribute Description** Normalized office code

**Attribute: locdn.digits**

**Fullname:** Digits

**Attribute Description** The local dn minus the office code.

**Attribute: port**

**Fullname:** port for the D-channel

**Attribute Description** The port identifies the target DSL on the module derived from the next attribute, targ_mod.

**Attribute: targ_mod**

**Fullname:** target module number

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**Attribute Description** module of target DSL for the ACSR move

**Attribute: src_mod**

**Fullname:** source module number

**Attribute Description** module of source DSL for the ACSR move

**Attribute: time_entry**

**Fullname:** time of entry of the ACSR request

**Attribute Description** RCasrsp process will put time of entry of the ACSR request

**Attribute: status**

**Fullname:** status of ACSR request (normal/inprog/purged/cancelled)

**Attribute Description** This indicates whether the ACSR request in the queue is normal, in progress, purged by the switch personnel using the craft command, or cancelled by the end user or the RCasrsp process in response to a 'cancel' message from FITA. The ACSR OKP process indicates 'normal' status when an ACSR request is first enqueued.

**Attribute: non_epid**

**Fullname:** Indicates whether terminal is non-epid type

**Attribute Description** Used by ACSR *UNIX*® system process while calling the RC/V view 23.2 for line move. This is required to pass to the RC/V view 23.2

**Attribute: ama_rec**

**Fullname:** AMA Recording

**Attribute Description** This attribute indicates if an AMA billing record should be generated for using this ACSR feature. **Defines:** "db/DMport.h"

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# RCANI_II

## 1. Description

This relation defines remarks data for ANI II digits.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| expected tuples in relation | 20 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | LP |
| application type | RCMAP |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
RCANI_II    relid = 3185  DBSTATIC   DBACC_DHSH  DBPRAM    LP      RCMAP


     orig_ii     DMUNS7       (ushort: 7)       <--- key
     remark      DMTEXT       (array [ 16 ] of char )
         User, Compacted and Stored Tuple Layout   RCANI_II
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               | |                                             |
  0 |   orig_ii     |*|                     remark                  |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
  4 |                               remark                          |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
  8 |                               remark                          |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 12 |                               remark                          |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                 |                                             |
 16 |     remark      |*********************************************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population rules for RLrcani_ii

### Relation Description

```
        This relation is used to store remark data for ANI II digits.

        This relation is used to store remark data for ANI II digits.
        The relation is only used to display information on the
        RC/ODA view for ANI mapping.
```

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**Attribute:**
orig_ii
**Fullname:**
Original ANI II digits.
**Attribute Description:**
This field stores the Original II digits.

**Attribute:**
remark
**Fullname:**
Remark information for Original ANI II digits
**Attribute Description:**
The remarks field is an informational field that can be used for whatever purpose is needed to describe the Original ANI II digits.

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# RCAP_G

## 1. Description

Storage relation to store 8-byte REMARKS field (Used in RLrcapdata.G).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 99 |
| expected tuples | 30 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LP |
| application type | RCMAP |
| relation type | DBSTORAGE |
| head table size | 1024 |
| data page size | 512 |
| page level | 2 |
| index length | 0 |
| ks key store | DBNO |
| permutation type | perm |
| foldtype | DBGC31 |
| gkidxrel reverse index | rlRCAP_I |

## 3. Field Layout

```
RCAP_G      relid = 1708  DBSTORAGE  DBACC_GK    DBPRAM    LP      RCMAP
     gkRCAP_G    DMGK14       (ulong: 14)  <--- key, not stored
     rmk         DMTEXT8      (array [ 8 ] of char )
         User and Compacted Tuple Layout     RCAP_G
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             |
  0 |*********************************|          gkRCAP_G           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                               rmk                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
  8 |                               rmk                             |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
     rmk         DMTEXT8      (array [ 8 ] of char )
           Stored Tuple Layout   RCAP_G
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                          GK LINK FIELD                        |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                               rmk                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
  8 |                               rmk                             |
    |---------------+---------------+---------------+---------------|
```

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```
( 12 bytes )
```

## 4. Population Rules for RLrcap_g

There are no population rules for this relation.

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# RCAP_R

## 1. Description

Relation that contains the site id of an application processor (AP) and uses this as key to determine the remark attribute describing the owner of the AP.

This is a root storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 99 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTORAGE |
| head table size | 512 |
| data page size | 512 |
| page level | 1 |
| index length | 8 |
| ks key store | DBNO |
| permutation type | perm |

## 3. Field Layout

```
RCAP_R      relid = 1710  DBSTORAGE  DBACC_CIND  DBPRAM    LP      RCMAP
     site_id     DMAPSITE     (ushort: 8)  <--- key, not stored
     remarks     DMGK14       (ulong: 14)
         User and Compacted Tuple Layout     RCAP_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |    site_id    |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                           |                                   |
  4 |          remarks          |***********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     remarks     DMGK14       (ulong: 14)
           Stored Tuple Layout   RCAP_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           |                                   |
  0 |          remarks          |***********************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLrcap_r

There are no population rules for this relation.

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# RCAPDATA

## 1. Description

Relation that contains the site id of an Application Processor (AP) and uses this as key to determine the remark attribute describing the owner of the AP.

This is a virtual update relation. The root storage relation is RLrcap_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation RCAPDATA.

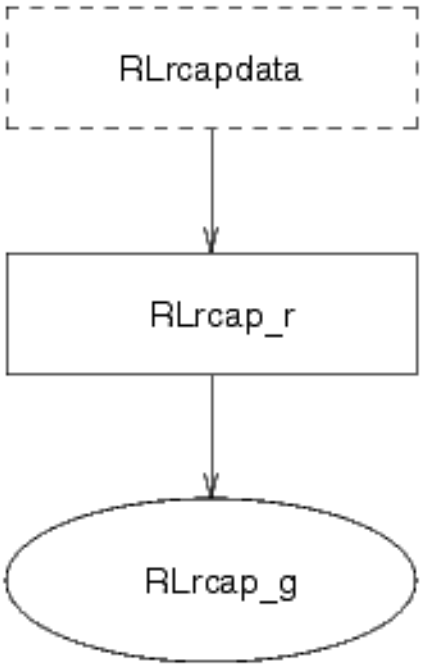


**Figure 1 Virtual Relation RCAPDATA**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
RCAPDATA    relid = 846   DBSTATIC   DBACC_OPV   DBNOTODD  LP      RCMAP
     site_id     DMAPSITE     (ushort: 8)  <--- key
     rmk         DMTEXT8      (array [ 8 ] of char )
         User, Compacted and Stored Tuple Layout   RCAPDATA
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |    site_id    |                     rmk                       |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
```

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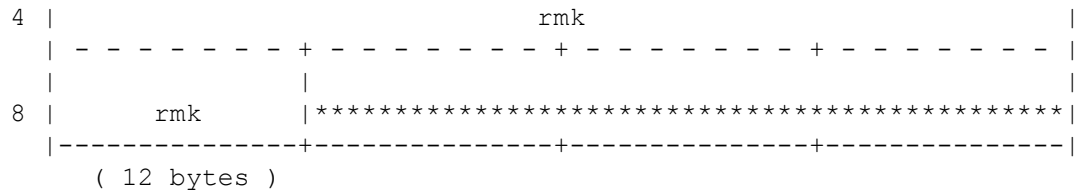


## 4. Population Rules for RLrcapdata

**Relation Description**
Application processor (AP) data.

This relation contains the site ID of an AP and uses this as key to determine the remark attribute describing the owner of the AP.
Starting in the 5E4 Generic, each AP can be given an 8 character remark which provides a descriptive name to correspond to the AP site_id. This remark field will be included in the office records to facilitate the switch personnel in correlating an AP and site_id.
This relation will be used by recent change (RC) to produce the office records for APs.
A tuple in this relation is created for each tuple defined in RLcmapdata, independent of whether or not a remark, 'rmk', is known or submitted.

**Attribute: site_id**

**Fullname:** Site identification number of the AP

**Attribute Description** The site identification number can be any number from 1 to 255 and must uniquely identify the AP to the switch. This number is used by AP capabilities to indicate where messages should be routed. The assignment of this number must be consistent with their usage.

**Attribute: rmk**

**Fullname:** Remark

**Attribute Description** Remark provides a character description for the AP site. This value will be included in the Office Records. SZTEXT = 8.

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# RCB_HCB

## 1. Description

For RDFI, this table translates from RDFI to HDFI. For RDFI2s, this table translates from T1FAC to HFAC. This relation is also used to show which RDFI/T1FACs may be used as alternate references for the remote clock (RCLK) and the translation of this RDFI (or T1FAC) name to the RCLK reference number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| expected tuples in relation | 8 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
RCB_HCB     relid = 435   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     rfac_id     DMCIRCUIT    (ushort)     <--- key
     hfac_id     DMCIRCUIT    (ushort)
     rfac_id1    DMCIRCUIT    (ushort)
     rcrefunit   DMDBSMNCREF  (enum)
         User, Compacted and Stored Tuple Layout    RCB_HCB
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            rfac_id            |            hfac_id            |
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  4 |            rfac_id1           |   rcrefunit   |***************|
    |---------------+---------------+---------------+---------------|
                            ( 8 bytes )
```

## 4. Population rules for RLrcb_hcb

### Relation Description

```
        T1FAC circuit name to HFAC circuit name Translation
        This table translates from T1FAC to HFAC for both RDFI
        and RDFI2.  This relation is also used to show the
        translation of the RDFI (or T1FAC) name to the RCLK
        reference number.
```

**Attribute:**

```
        rfac_id
```

**Fullname:**

```
        internal name of the PCT1FAC facility circuit
```

**Attribute Description:**

```
        This attribute is the key to its RLCKTDATA tuple
```

**Attribute:**

```
        hfac_id
```

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**Fullname:**
internal circuit name of the host facility circuit
**Attribute Description:**
this circuit is connected to the other end of this PCT1FAC

**Attribute:**
rcrefunit
**Fullname:**
the remote clock reference number
**Attribute Description:**
The RCLK reference number that is associated with the PCT1FAC specified by the key (rfac_id) to this relation (RLRCB_HCB).
This attribute must contain a valid, operational RCLK reference as specified in the relation RLSRCREF, whose key is this attribute (rcrefunit) and whose (ext_ref) attribute in RLSRCREF relation is set to DBNO.
If the PCT1FAC associated with the key (rfac_id) is not a RCLK reference, this value must be SMNOTREF.

**Attribute:**
rfac_id1
**Fullname:**
name of the alternate PCT1FAC that may be used as an RCLK reference
**Attribute Description:**
Name of the alternate PCT1FAC that may be used as an RCLK reference. This attribute must contain the name of a valid operational PCT1FAC facility circuit (with a CKTDATA tuple 'eqstat' attribute of SMOPER) in this RSM, provided that this RSM is equipped with an RCLK and the key (rpicb) is designated to be used as an RCLK reference.

A PCT1FAC is designated to be used as an RCLK reference by having an entry in the relation RLSRCREF, whose key is the attribute 'rcrefunit' and with 'ext_ref' attribute of RLSRCREF set to DBNO.
In addition, there must be a tuple in this relation (RLRCB_HCB) whose key is the same as this attribute.
The minimum number of RCLK references is two. For 5E2_2, there will be only two reference for the RCLK.

**Defines:**
"db/DMcircuit.h"

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# RCFACIDS

## 1. Description

Maintains list of available FAC IDs for SM partitioned data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 7000 |
| access type | DBACC_HASH |
| memory type | DBDISK |
| distribution | DO |
| relation type | DBSTATIC |

## 3. Field Layout

```
RCFACIDS    relid = 2531  DBSTATIC   DBACC_HASH  DBDISK    DO      DDBM
     facid       DMFACID      (ushort)     <--- key
     reclaimid   DMFACID      (ushort)
     lastused    DMFACID      (ushort)
     gsm         DMMODULE     (ushort: 8)     <--- key
     subclass    DMUNS6       (ushort: 6)     <--- key
 (a) class       DMRCFACLAS   (enum: 1)     <--- key
         User, Compacted and Stored Tuple Layout   RCFACIDS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              facid            |           reclaimid           |
    |---------------+---------------+---------------+---------------|
    |                               |               |           | | |
  4 |             lastused          |      gsm      |  subclass |a|*|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLrcfacids

**Relation Description**
Recent Change FAC IDs.

This relation maintains the list of available FAC IDs for SM partitioned data.

**Attribute: facid**

**Fullname:** FAC id

**Attribute Description** This attribute indicates FAC ID number.

**Attribute: class**

**Fullname:** Class of Facid

**Attribute Description** This attribute identifies the class of facid. The enum value FACPSNIDX has range from 0 to 4095 and FACFDSIDX has range from 0 to 100.

**Attribute: subclass**

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**Fullname:** Subclass of Facids

**Attribute Description** This attribute identifies the subclass of facids on a particular global sm.

**Attribute: gsm**

**Fullname:** Global SM

**Attribute Description** This attribute indicates the Global SM number.

**Attribute: reclaimid**

**Fullname:** Next FAC ID to be reclaimed.

**Attribute Description** This attribute indicates the next FAC ID to be reclaimed.

**Attribute: lastused**

**Fullname:** Last FAC ID used.

**Attribute Description** This attribute indicates the last FAC ID to be used.

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# RCFTRKEY

## 1. Description

A customer's feature key is used to activate / deactivate / change parameter for an MCC feature. This relation associates each owner with their feature key(s).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
RCFTRKEY    relid = 541   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     lport       DMLPORT      (ushort: 16)     <--- key
     feat_id     DMMCC_FID    (ushort)
     lport_mod   DMMODULE     (ushort: 8)      <--- key
     sqnum       DMUNS4       (ushort: 4)      <--- key
 (a) lpt_type    DMLPT_TYPE   (enum: 2)      <--- key
     scan_port   DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout   RCFTRKEY
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             lport             |            feat_id            |
    |---------------+---------------+---------------+---------------|
    |                |       |   |                                  |
  4 |   lport_mod    | sqnum | a |**********************************|
    |================+========== scan_port ==========+===============|
    |                               |               |               |
  8 |             member            |***************|     module    |
    |===============+===============+===============+===============|
       ( 12 bytes )
```

## 4. Population Rules for RLrcftrkey

**Relation Description**
RC Feature Key.

A feature key is used to activate / deactivate / change parameters for an MCC feature. This relation associates a set of feature keys to a particular lport.
The relation is keyed by a port (module, lport, lport type) plus a sequence number. The sequence numbers, assigned in order starting with 1, allow multiple feature keys to be associated with a particular port.

**Attribute: lport_mod**

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**Fullname:** Switching module of the lport

**Attribute Description** The SM on which the control line terminates.

**Attribute: lport**

**Fullname:** Logical port of the user which is the control line for the key.

**Attribute Description** With lpt_type and lport_mod, this attribute specifies the line to be associated with the feature keys.

**Attribute: lpt_type**

**Fullname:** Logical port type of the user.

**Attribute Description** This attribute will be LPT_ISDN for ISDN users or LPT_OTHER for analog lines.

**Attribute: sqnum**

**Fullname:** Feature Key sequence number

**Attribute Description** This attribute is sequential in nature starting with 1 (That is if a tuple with this attribute equal to 2 exists, there must also be a tuple with sequence number 1.) The sequence numbers provide a means for associating multiple feature keys with a particular lport. Each feature key gets its own tuple and the tuple keys are made unique by the sequence numbers.

**Attribute: scan_port**

**Fullname:** Scan point port

**Attribute Description** This attribute identifies the scan point that is physically wired to the feature key on the controlling terminal.

**Attribute: scan_port.member**

**Fullname:** Scan point port number

**Attribute Description** Port for the user which is the control line for the key.

**Attribute: scan_port.module**

**Fullname:** Scan point port module number

**Attribute Description** Specifies which SM the scan point terminates on.

**Attribute: feat_id**

**Fullname:** Feature ID.

**Attribute Description** Identifies the feature to be activated or deactivated when the scan point changes state.

**Defines:**"db/DMport.h"

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# RCLK_SC

## 1. Description

Relation that maps a RSM Remote Clock logical scan or distribute point name to its (duplexed) MSU port numbers.

The information is used for Remote Network Clock alarm scan or distribute point processing

Client Process: SMrclkfr

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |
| ks key store | DBNO |

## 3. Field Layout

```
RCLK_SC     relid = 606   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     type         DMSERVCLASS  (enum)     <--- key, not stored
     side0        DMPORT       (ushort)
     side0dup     DMPORT       (ushort)
     side1        DMPORT       (ushort)
     side1dup     DMPORT       (ushort)
         User and Compacted Tuple Layout    RCLK_SC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |      type     |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             side0             |            side0dup           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |             side1             |            side1dup           |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
     side0        DMPORT       (ushort)
     side0dup     DMPORT       (ushort)
     side1        DMPORT       (ushort)
     side1dup     DMPORT       (ushort)
           Stored Tuple Layout      RCLK_SC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             side0             |            side0dup           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
```

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```
  4 |             side1             |            side1dup           |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLrclk_sc

**Relation Description**
Remote clock scan (RCLK_SC).

Each RCLK scan (distribute) point is duplicated which means that each side of the RCLK has scan (distribute) point assigned to a port on MSU service group 0 as well as a corresponding duplicate port on MSU service group 1.
side0, side0dup - a scan (distribute) point and its duplicate for RCLK side 0
side1, side1dup - a scan (distribute) point and its duplicate for RCLK side 1

**Attribute: type**

**Fullname:** type of scan or distribute point

**Attribute Description** Identifies the type of scan point or distribute point used by the RCLK. The RCLK scan point type can be either RCLK_WPWR, RCLK_YPWR, RCLK_MOR,RCLK_ROS, RCOSC_XPWR, or RCOSC_YPWR. The RCLK distribute point type can be RCLK_OOSD, RCLK_RQIPD, or RCOSC_OOSD.

**Attribute: side0**

**Fullname:** hexadecimal port number of primary scan or distribution port on side 0

**Attribute Description** Identifies the port number of the primary scan (or distribute) point on side 0.

**Attribute: side0dup**

**Fullname:** hexadecimal port number of duplex scan or distribution point on side 0

**Attribute Description** Identifies the port number of the duplex scan (or distribute) point on side 0. This duplex port number is not assigned for CSU/MSU, since CSU/MSU does not have service group 1.

**Attribute: side1**

**Fullname:** hexadecimal port number of primary scan or distribution point on side 1

**Attribute Description** Identifies the port number of the primary scan (or distribute) point on side 1.

**Attribute: side1dup**

**Fullname:** hexadecimal port number of duplex scan or distribution point on side 1

**Attribute Description** Identifies the port number of the duplex scan (or distribute) point on side 1. This duplex port number is not assigned for CSU/MSU, since CSU/MSU does not have service group 1.

**Defines:**"db/DMport.h"

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# RCLKDEF

## 1. Description

Remote clock description.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 1 |

## 3. Field Layout

```
RCLKDEF     relid = 589   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
 (a) nc_type     DMSMNCTYPE    (enum: 3)
 (b) osc_type    DMSMOSCTYP    (enum: 2)
 (c) side        DMSIDE        (enum: 1)  <--- key
 (d) sync_type   DMSMSYNC      (enum: 1)
        User and Compacted Tuple Layout    RCLKDEF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |     |   | | |                                                 |
 0 |  a  | b |c|d|*************************************************|
   |---------------+---------------+---------------+---------------|
      ( 4 bytes )
 (a) nc_type     DMSMNCTYPE    (enum: 3)
 (b) osc_type    DMSMOSCTYP    (enum: 2)
 (c) side        DMSIDE        (enum: 1)  <--- key
 (d) sync_type   DMSMSYNC      (enum: 1)
          Stored Tuple Layout      RCLKDEF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |     |   | | |                                                 |
 0 |  a  | b |c|d|*************************************************|
   |---------------+---------------+---------------+---------------|
      ( 2 bytes )
```

## 4. Population Rules for RLrclkdef

**Relation Description**
Remote clock description.

This relation provides a composite description of the RCLK. There are only two tuples in this relation, one for each RCLK side.

**Attribute: side**

**Fullname:** RCLK side

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**Attribute Description** This attribute determines which RCLK a tuple describes. It is used as the key to this relation.
The domain of this attribute is BFSIDE, or 1 bit. The enumeration (DMSIDE) values that can be assumed by this relation are SM5SIDE0 if the tuple describes the RCLK on side 0, or SM5SIDE1 if the tuple describes the RCLK on side 1. This attribute should be populated to indicate the appropriate RCLK side described by a tuple.

**Attribute: nc_type**

**Fullname:** type of RCLK

**Attribute Description** This attribute specifies the type of RCLK with which the RSM is equipped. If the RSM is equipped with a RCLK, the nc_type is set to one of the following:

```
SM24NC2 - DS1 24-channel clock
SM30NC2 - DS1 30-channel clock
SMSANC2 - Stand alone version of network clock 2 (NCLK2).
```

The RLCK hardware consists of the same hardware as the NCLK2. This attribute should be populated to appropriately indicate the type of the RCLK in the RCLK side described by each tuple in this relation.

**Attribute: sync_type**

**Fullname:** synchronization type

**Attribute Description** If the RSM is equipped with a RCLK, then populate this attribute. The value is:

```
HIERARCH - Master/Slave synchronization.
           All 5e2(2) offices will be HIERARCH.
           U.S. offices will be HIERARCH.
SING_MUT - Single-ended mutual synchronization.
           Some future offices outside the U.S.
           will be SING_MUT.
```

**Attribute: osc_type**

**Fullname:** oscillator type

**Attribute Description** If the RSM is equipped with a RCLK, populate this attribute. The value for a Domestic office is:

```
SMDOM_MED - Medium Stability Oscillator
Stratum 3 offices (Local)
5e2(2)    - ckt.pack TN1286
```

The value for an Export office is:

```
SMEXP_HI  - High Stability Oscillator
Gateway and Toll applications
5e2(2)    - ckt. pack TN1283
SMEXP_MED - Medium stability oscillator
5e2(2)    - ckt. pack TN1285
```

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# RCMBGNM

## 1. Description

Recent change multiswitch business group name (RCMBGNM).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples based on maximum in RLrt_tg | 150 |
| expected tuples | 20 |
| access type | DBACC_HASH |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| memory type | DBPRAM |

## 3. Field Layout

```
RCMBGNM     relid = 2137  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     mbg_id      DMUNS16      (ushort)  <--- key
     mbg_name    DMFACNAME    (array [ 8 ] of char )
         User, Compacted and Stored Tuple Layout    RCMBGNM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              mbg_id           |            mbg_name           |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  4 |                            mbg_name                           |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  8 |             mbg_name          |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLrcmbgnm

**Relation Description**
The relation stores the multi-switch business group (MBG) name for each multi-switch business group identifier known by the switch.

QUANTITY OF TUPLES:
A tuple is required in RLrcmbgnm for each mgb_id value that is stored in RLmbg2tg where name is specified.

**Attribute: mbg_id**

**Fullname:** MBG identifier (MBG_ID)

**Attribute Description** mbg_id is an identifier used to describe a MBG that has multi-switch business group elements (MBGE) in 1 or more switches. This is a unique number in the network with a range of {2-65535}. The value 1 is "Reserved for Public Network Identifier" (such as, non-MBG identification.)

```
/* RULE about RLrcmbgnm.mbg_id */
/* This relation should not exist unless the */
/* CENTREX Network (CN) CN_SFID #181 is on */
```

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**Attribute: mbg_name**

**Fullname:** Multiswitch Business Group NAME

**Attribute Description** mbg_name is an 8 character identifier associated with the MBG identifier. This is used to identify the MBG customer, and associated switch data, with the customer's CENTREX Network.

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# RCNETGRP

## 1. Description

This relation contains a list of all the ARS group IDs that are associated with a given leased network group name, NETGRP. This relation is used by recent change (RC) to copy all appropriate ARS group data down to all SMs for the associated trunk group member ports with this NETGRP (see RLrctgrprk.netgrp).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
RCNETGRP    relid = 1354  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCDATA
     netgrp      DMFACNAME    (array [ 8 ] of char )  <--- key
     argp        DMMCC_FID    (ushort)  <--- key
         User, Compacted and Stored Tuple Layout   RCNETGRP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                             netgrp                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                             netgrp                            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |              argp             |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLrcnetgrp

**Relation Description**
Leased network group name and ARS group IDs.

This relation contains a list of all the ARS group IDs that are associated with a given leased network group name, NETGRP. This relation is used by Recent Change to copy all appropriate ARS group data down to all SMs for the associated trunk group member ports with this NETGRP (see RLrctgrprk.netgrp).

**Attribute: netgrp**

**Fullname:** Leased Network Group Name

**Attribute Description** Leased network group name used to define a grouping of ARS groups which share a trunk group, in particular, a leased network CCS7 intermachine trunk group. See RLrctgrprk.netgrp.

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**Attribute: argp**

**Fullname:** Automatic Route Selection Group ID

**Attribute Description** Internal ARS group ID assigned to the associated ARS group name shared within a leased network group assigned to a trunk group.

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# RCNSFMAP

## 1. Description

This relation associates the EDSL pre-routing index with a call by call service type.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150 |
| access type | DBACC_CIND |
| memory type | DBDISK |
| distribution | DO |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 2048 |
| page level | 2 |
| ks key store | AUTO |

## 3. Field Layout

```
RCNSFMAP    relid = 881   DBSTATIC   DBACC_CIND  DBDISK    DO      DDBM


     fac_num     DMUNS17      (ulong: 17)
     carrid      DMBCARID     (ushort: 14)
     scocsid     DMUNS17      (ulong: 17)
     eprtidx2    DMEPRTE2     (ushort: 10)      <--- key
     nsftype     DMNSFTYPE    (enum: 4)
     band        DMOWATSBND   (uchar: 8)
     nusers      DMIDX2USER   (uchar: 8)
     bearcap     DMBEARCAP    (enum: 4)
         User, Compacted and Stored Tuple Layout   RCNSFMAP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  0 |             fac_num             |           carrid            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |                     |       | |
  4 |             scocsid             |      eprtidx2       |nsftype|*|
    |---------------+---------------+---------------+---------------|
    |               |               |       |                       |
  8 |      band     |     nusers    |bearcap|***********************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population rules for RLrcnsfmap

### Relation Description

```
        Extendent Digital Subscriber Line (EDSL) pre_routing index.

        associates Extended Digital Subscriber Line (EDSL) pre-routing index
        with call by call service type

      " This relation is populated when RLnsfmap is populated.  RLnsfmap
        maps attributes to an index (nsftype, band, carrid, fac_num,
```

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bearcap and scocsid mapped to
eprtidx2). RLrcnsfmap maps the index (eprtidx2) to the attributes (nsftype, band, carrid, fac_num, bearcap and scocsid) and to the number of users (nusers).
RLnsfmap is used for call processing. RLrcnsfmap is initialized by ODA and used by Recent Change for insert, delete, and update."

**Attribute:**
eprtidx2
**Fullname:**
Extended Digital Subscriber Line (EDSL) pre-routing index.
**Attribute Description:**
EDSL pre-routing index for call by call type.

**Attribute:**
nsftype
**Fullname:**
call by call service type.
**Attribute Description:**
EDSL call by call service types.
Valid types:
FC_OPOTS - originating POTS
FC_OWBAND - OUTWATS with band
FC_MAXOWATS - maximal OUTWATS
FC_TPOTS - terminating POTS
FC_M800 - originating and terminating Megacom(R) 800
FC_SDN - originating and terminating SDN
FC_OFX - originating from PRI & terminating to FX
FC_TFX - originating from FX & terminating to PRI
FC_OTIE - originating from PRI & terminating to TIE
FC_TTIE - originating from Tie & terminating to PRI
FC_HM - Hotel/Motel service.
FC_SCOCS - Selective Class of Call Screening service.
FC_MEGACOM - originating MEGACOM(R)
FC_I800 - terminating International 800 service
FC_MULTIQUEST - terminating MULTIQUEST(R)
(DIAL-IT NOVA) service
(Note: Terminating TINWATS is also a call
by call service type but is not assigned here.
MCRI/SFGs are assigned in RLrt_mcrt).

**Attribute:**
band
**Fullname:**
band number.
**Attribute Description:**
OUTWATS band number.

**Attribute:**

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fac_num

**Fullname:**

Facility Number.

**Attribute Description:**

This attribute is used to indicate the facility number of the incoming or outgoing FX or Tie trunk

**Attribute:**

carrid

**Fullname:**

Carrier id.

**Attribute Description:**

Interexchange carrier id. A tuple in RLfc_carr such that RLfc_carr.carrid equals RLrcnsfmap.carrid, for all values except NULL_BCARID.

Allowable Range: 0-FGDMAXBCAR
A NULL carrier is defined as NULL_BCARID.
A non-existing or invalid carrier is defined as INVBCARID.

Default: NULL_BCARID

**Attribute:**

bearcap

**Fullname:**

Bearer Capability

**Attribute Description:**

Type of bearer capability associated with the call-by-call service type.

**Attribute:**

scocsid

**Fullname:**

Selected Class of Call Screening Service Id.

**Attribute Description:**

The service id associated with the SCOCS service.

**Attribute:**

nusers

**Fullname:**

number of users.

**Attribute Description:**

Number of users of this eprtidx2. The number of users is the number of trunk groups referencing this eprtidx2 (number of tuples in RLedslgprt with an eprtidx2 (key) = RLrcnsfmap. eprtidx2). Note that a RLedslgprt tuple for a

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```
        given grpnum and eprtidx2 may be populated on more
        than one SM but is counted as one user here.
```

**Defines:**

```
        "db/DMcarr_val.h"
```

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# RCPFAKEY

## 1. Description

Store data for key to the RLpf_parm relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 1024 |
| page level | 0 |

## 3. Field Layout

```
RCPFAKEY    relid = 576   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     seqnum      DMUNS16      (ushort)     <--- key
     parm_id     DMUNS16      (ushort)
     usr_cnt     DMUNS16      (ushort)
 (a) digcoll     DMPFDCOL     (enum: 3)     <--- key
 (b) save_acd    DMBOOL       (enum: 1)     <--- key
 (c) dial_tn2    DMBOOL       (enum: 1)     <--- key
 (d) ovlp_opls   DMBOOL       (enum: 1)     <--- key
 (e) sig_conv    DMBOOL       (enum: 1)     <--- key
        User, Compacted and Stored Tuple Layout   RCPFAKEY
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             seqnum            |            parm_id            |
   |---------------+---------------+---------------+---------------|
   |                               |     | | | | |                 |
 4 |            usr_cnt            |  a  |b|c|d|e|*****************|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population Rules for RLrcpfakey

**Relation Description**
Recent Change keys for private facilities access parameter tuples.

Stores data for keying into the RLpf_parm relation.

This relation is used by Recent Change to quickly locate a tuple in RLpf_parm with attributes that match the keys to this relation.

See RLpf_parm for a full description of the key attributes to this relation.

**Attribute: digcoll**

**Fullname:** digit collection type

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**Attribute Description** Indicates the type of digit collection.

**Attribute: save_acd**

**Fullname:** save access dialcode

**Attribute Description** Save access dialcode indicator.

**Attribute: dial_tn2**

**Fullname:** second dial tone indicator

**Attribute Description** Indicator to provide second dial tone.

**Attribute: ovlp_opls**

**Fullname:** overlap outpulsing

**Attribute Description** Overlap outpulsing indicator.

**Attribute: sig_conv**

**Fullname:** signal conversion

**Attribute Description** Signal conversion indicator.

**Attribute: seqnum**

**Fullname:** sequence number

**Attribute Description** This is a sequential based key.

If this value is greater than 0, there must be tuples in RLrcpfakey with every seqnum from 0 through this value. For example, if this attribute is 1 there must be a 0 in another tuple in the RLrcpfakey relation with matching values for the other 5 keys. The sequence numbers must begin with 0 and then be sequentially incremented.

**Attribute: parm_id**

**Fullname:** parameter identifier

**Attribute Description** There must be a tuple in the RLpf_parm relation for each of the parm_id's in this relation such that:

```
RLpf_parm.dcol_typ = RLrcpfakey.digcoll
RLpf_parm.save_acd = RLrcpfakey.save_acd
RLpf_parm.dial_tn2 = RLrcpfakey.dial_tn2
RLpf_parm.ovlp_opls = RLrcpfakey.ovlp_opls
RLpf_parm.sig_conv = RLrcpfakey.sig_conv
RLpf_parm.parm_id = RLrcpfakey.parm_id
```

**Attribute: usr_cnt**

**Fullname:** user count

**Attribute Description** This is the number of PFA group parameter tuples using this parm_id.

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# RCRTIRMK

## 1. Description

This relation associates a remark, which contains up to 16 characters, with a route index.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16382 |
| expected tuples in relation | 700 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
RCRTIRMK    relid = 167   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     count       DMSHORT      (short)
     rti         DMRTEIDX     (ushort: 14) <--- key
     rem         DMTEXT       (array [ 16 ] of char )
         User, Compacted and Stored Tuple Layout   RCRTIRMK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |   |
  0 |              count            |            rti                |***|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                               rem                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                               rem                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                               rem                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                               rem                             |
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population rules for RLrcrtirmk

### Relation Description

```
        Route Index Remarks
        This relation associates a remark, which contains up to 16 characters,
        with a route index.
        There is a tuple in this relation for every route index populated
        in RLrt_routing (that is, RLrt_routing.route_x).
```

**Attribute:**

```
        rti
```

**Fullname:**

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Route Index

**Attribute Description:**

This is the route index to which the remark (that is, RLrcrtirmk.rem) refers.

**Attribute:**

count

**Fullname:**

RTI counter

**Attribute Description:**

This attribute contains the number of references to RLrcrtirmk.rti found in RLrtlist.ri[0 thru 15] (all tuples). This counter enables RC to block deletions on RC View 10.2, if a specific RTI is referenced (RLrcrtirmk.count != 0) on any LDP Route List (RC View 10.40). The tuple can, however, be deleted, even though the RTI may be referenced from other relations such as, RLfc_carr, RLrt_dtrtx, RLrt_fixedri, RLrt_scrning, RLrt_wbrtx, and RLsrv_dest.

**Attribute:**

rem

**Fullname:**

Remark

**Attribute Description:**

The remark for the route index is stored as an array of up to 16 ASCII characters. If no remark was specified for the route index then the array is set to NULL ('\0').

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# RCRTMOD

## 1. Description

The number of hundreds groups routed by an SM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 192 |
| expected number of tuples | 35 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 1024 |
| data page size | 1024 |
| page level | 1 |
| ks key store | DBNO |

## 3. Field Layout

```
RCRTMOD     relid = 694   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     sm          DMMODULE     (ushort: 8)     <--- key, not stored
     workload    DMUNS16      (ushort)
     psworkload  DMUNS16      (ushort)
         User and Compacted Tuple Layout    RCRTMOD
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |       sm      |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            workload           |           psworkload          |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     workload    DMUNS16      (ushort)
     psworkload  DMUNS16      (ushort)
           Stored Tuple Layout      RCRTMOD
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            workload           |           psworkload          |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLrcrtmod

**Relation Description**
Recent change routing module relation.

Number of hundreds groups routed by SM.

(1) 1) Each tuple contains the number of Hundreds Groups routed by this module.

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(2) 2) The definition of an eligible switching module is defined in the population rules for rlRTDNMOD.

(3) 3) One tuple exists in this relation for each eligible switching module.

A tuple is populated even if there are zero rlRTDNMOD.rtg_mod attributes specifing this rlRCRTMOD.sm."

**Attribute: sm**

**Fullname:** Switching Module

**Attribute Description** Switching Module (1-192).

**Attribute: workload**

**Fullname:** The number of rlRTDNMOD tuples that specify this switching module in RLrtdnmod.rtg_mod.

**Attribute Description** The number of rlRTDNMOD tuples that specify this switching module in rlRTDNMOD.rtg_mod.
Zero(0) is a legal value for rlRCRTMOD.workload if there are no rlRTDNMOD.rtg_mod attributes that reference this rlRCRTMOD.sm. Notice that RC mapping code for Hundreds Group Assignment (vhgrpas) handles this zero case as an exception to its rule concerning automatic assignment of routing modules. This zero case is given special handling to accommodate SM growth. It prevents new SMs from being the target of automatic assignment until the SM is fully operational.

If the switch personnel leaves the SM attribute blank on this view, the RC code finds the rlRCRTMOD tuple with the lowest non-zero rlRCRTMOD.workload attribute and populates rlRTDNMOD.rtg_mod with that particular rlRCRTMOD.sm. For this default case, one hundreds group on a (modatt.unittype=SMSMP20) is equivalent to five (5) hundreds group on an SM-2000 SM (modatt.unittype=SMSM2000 or SMSM2005). In other words, except for the zero case, if the user does not specify an SM, then the RC code automatically assigns the new hundreds group to the SM with the lowest workload.

**Attribute: psworkload**

**Fullname:** The number of rlRTDNMOD tuples that specify this switching module in rlRTDNMOD.psrtg_mod.

**Attribute Description** The number of rlRTDNMOD tuples that specify this switching module in rlRTDNMOD.psrtg_mod.
Zero(0) is a legal value for rlRCRTMOD.psworkload if there are no rlRTDNMOD.psrtg_mod attributes that reference this rlRCRTMOD.sm. Notice that RC mapping code for Hundreds Group Assignment (vhgrpas) handles this zero case as an exception to its rule concerning automatic assignment of packet routing modules. If the switch personnel leaves the SM attribute blank on this view, the RC code finds the rlRCRTMOD tuple with the lowest non-zero rlRCRTMOD.psworkload attribute and populates rlRTDNMOD.psrtg_mod with that particular rlRCRTMOD.sm. In other words, except for the zero case, if the user does not specify an SM: then the RC code automatically assigns the new hundreds group to the SM which is an ISDN SM with the fewest packet hundreds groups.

This zero case is given special handling to accommodate SM growth. It prevents new SMs from being the target of automatic assignment until the SM is fully operational.

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# RCSDL_LG

## 1. Description

This relation is used for CCS Automatic Allocation of Signaling Data Links (SDLs). It maps a SDL SM and port to a Link Group and Link Group member.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 4096 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBDISK |
| distribution | DO |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| padding indicator | unpadded |

## 3. Field Layout

```
RCSDL_LG    relid = 2562  DBSTATIC   DBACC_HASH  DBDISK    DO      DDBM
     sdl_port    DMPORT       (ushort)     <--- key
     sdl_sm      DMMODULE     (ushort: 8)     <--- key
     lnkgrp      DMUNS8       (ushort: 8)
 (a) lnkgrpmem   DMUNS4       (ushort: 4)
         User, Compacted and Stored Tuple Layout   RCSDL_LG
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |            sdl_port           |     sdl_sm    |     lnkgrp    |
    |---------------+---------------+---------------+---------------|
    |       |                                                       |
  4 |   a   |*******************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLrcsdl_lg

**Relation Description**
Signaling Data Link port to Link Group Member Mapping.

This relation is used for Automatic Allocation of Signaling Data Links. It provides a mapping between a Link Group and Member and a Signaling Data Link port.

**Attribute: sdl_sm**

**Fullname:** Signaling Data Link Module

**Attribute Description** Switching Module where the Signaling Data Link (SDL) resides.

**Attribute: sdl_port**

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**Fullname:** Signaling Data Link Port

**Attribute Description** The Signaling Data Link port number.

**Attribute: lnkgrpmem**

**Fullname:** Link Group Member Number

**Attribute Description** The member of the link group which contains the port keyed by this relation.

**Attribute: lnkgrp**

**Fullname:** Link Group Number

**Attribute Description** The link group which contains the port keyed by this relation.

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# RCTGFEAT

## 1. Description

List of BRCS constructed features to be assigned to each trunk group member as the member is inserted.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| expected tuples in relation | 8 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
RCTGFEAT    relid = 602   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     tgn         DMGRPNUM     (ushort)     <--- key
     tgent1      DMFACLENT    (struct)
         fid         DMMCC_FID    (ushort)
 (a)     initactv    DMBOOL       (enum: 1)
 (b)     autoparm    DMAUTOPARM   (enum: 2)
 (c)     ac          DMBOOL       (enum: 1)
 (d)     rasalwd     DMBOOL       (enum: 1)
     tgent2      DMFACLENT    (struct)
         fid         DMMCC_FID    (ushort)
 (e)     initactv    DMBOOL       (enum: 1)
 (f)     autoparm    DMAUTOPARM   (enum: 2)
 (g)     ac          DMBOOL       (enum: 1)
 (h)     rasalwd     DMBOOL       (enum: 1)
     tgent3      DMFACLENT    (struct)
         fid         DMMCC_FID    (ushort)
 (i)     initactv    DMBOOL       (enum: 1)
 (j)     autoparm    DMAUTOPARM   (enum: 2)
 (k)     ac          DMBOOL       (enum: 1)
 (l)     rasalwd     DMBOOL       (enum: 1)
     tgent4      DMFACLENT    (struct)
         fid         DMMCC_FID    (ushort)
 (m)     initactv    DMBOOL       (enum: 1)
 (n)     autoparm    DMAUTOPARM   (enum: 2)
 (o)     ac          DMBOOL       (enum: 1)
 (p)     rasalwd     DMBOOL       (enum: 1)
     tgent5      DMFACLENT    (struct)
         fid         DMMCC_FID    (ushort)
 (q)     initactv    DMBOOL       (enum: 1)
 (r)     autoparm    DMAUTOPARM   (enum: 2)
 (s)     ac          DMBOOL       (enum: 1)
 (t)     rasalwd     DMBOOL       (enum: 1)
     tgent6      DMFACLENT    (struct)
         fid         DMMCC_FID    (ushort)
 (u)     initactv    DMBOOL       (enum: 1)
 (v)     autoparm    DMAUTOPARM   (enum: 2)
 (w)     ac          DMBOOL       (enum: 1)
```

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```
(x)     rasalwd     DMBOOL       (enum: 1)
    tgent7      DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(y)     initactv    DMBOOL       (enum: 1)
(z)     autoparm    DMAUTOPARM   (enum: 2)
(A)     ac          DMBOOL       (enum: 1)
(B)     rasalwd     DMBOOL       (enum: 1)
    tgent8      DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(C)     initactv    DMBOOL       (enum: 1)
(D)     autoparm    DMAUTOPARM   (enum: 2)
(E)     ac          DMBOOL       (enum: 1)
(F)     rasalwd     DMBOOL       (enum: 1)
    tgent9      DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(G)     initactv    DMBOOL       (enum: 1)
(H)     autoparm    DMAUTOPARM   (enum: 2)
(I)     ac          DMBOOL       (enum: 1)
(J)     rasalwd     DMBOOL       (enum: 1)
    tgent10     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(K)     initactv    DMBOOL       (enum: 1)
(L)     autoparm    DMAUTOPARM   (enum: 2)
(M)     ac          DMBOOL       (enum: 1)
(N)     rasalwd     DMBOOL       (enum: 1)
    tgent11     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(O)     initactv    DMBOOL       (enum: 1)
(P)     autoparm    DMAUTOPARM   (enum: 2)
(Q)     ac          DMBOOL       (enum: 1)
(R)     rasalwd     DMBOOL       (enum: 1)
    tgent12     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(S)     initactv    DMBOOL       (enum: 1)
(T)     autoparm    DMAUTOPARM   (enum: 2)
(U)     ac          DMBOOL       (enum: 1)
(V)     rasalwd     DMBOOL       (enum: 1)
    tgent13     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(W)     initactv    DMBOOL       (enum: 1)
(X)     autoparm    DMAUTOPARM   (enum: 2)
(Y)     ac          DMBOOL       (enum: 1)
(Z)     rasalwd     DMBOOL       (enum: 1)
    tgent14     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(a)     initactv    DMBOOL       (enum: 1)
(b)     autoparm    DMAUTOPARM   (enum: 2)
(c)     ac          DMBOOL       (enum: 1)
(d)     rasalwd     DMBOOL       (enum: 1)
    tgent15     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(e)     initactv    DMBOOL       (enum: 1)
(f)     autoparm    DMAUTOPARM   (enum: 2)
(g)     ac          DMBOOL       (enum: 1)
```

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```
(h)     rasalwd     DMBOOL       (enum: 1)
    tgent16     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(i)     initactv    DMBOOL       (enum: 1)
(j)     autoparm    DMAUTOPARM   (enum: 2)
(k)     ac          DMBOOL       (enum: 1)
(l)     rasalwd     DMBOOL       (enum: 1)
    tgent17     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(m)     initactv    DMBOOL       (enum: 1)
(n)     autoparm    DMAUTOPARM   (enum: 2)
(o)     ac          DMBOOL       (enum: 1)
(p)     rasalwd     DMBOOL       (enum: 1)
    tgent18     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(q)     initactv    DMBOOL       (enum: 1)
(r)     autoparm    DMAUTOPARM   (enum: 2)
(s)     ac          DMBOOL       (enum: 1)
(t)     rasalwd     DMBOOL       (enum: 1)
    tgent19     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(u)     initactv    DMBOOL       (enum: 1)
(v)     autoparm    DMAUTOPARM   (enum: 2)
(w)     ac          DMBOOL       (enum: 1)
(x)     rasalwd     DMBOOL       (enum: 1)
    tgent20     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(y)     initactv    DMBOOL       (enum: 1)
(z)     autoparm    DMAUTOPARM   (enum: 2)
(A)     ac          DMBOOL       (enum: 1)
(B)     rasalwd     DMBOOL       (enum: 1)
    tgent21     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(C)     initactv    DMBOOL       (enum: 1)
(D)     autoparm    DMAUTOPARM   (enum: 2)
(E)     ac          DMBOOL       (enum: 1)
(F)     rasalwd     DMBOOL       (enum: 1)
    tgent22     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(G)     initactv    DMBOOL       (enum: 1)
(H)     autoparm    DMAUTOPARM   (enum: 2)
(I)     ac          DMBOOL       (enum: 1)
(J)     rasalwd     DMBOOL       (enum: 1)
    tgent23     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(K)     initactv    DMBOOL       (enum: 1)
(L)     autoparm    DMAUTOPARM   (enum: 2)
(M)     ac          DMBOOL       (enum: 1)
(N)     rasalwd     DMBOOL       (enum: 1)
    tgent24     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(O)     initactv    DMBOOL       (enum: 1)
(P)     autoparm    DMAUTOPARM   (enum: 2)
(Q)     ac          DMBOOL       (enum: 1)
```

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```
(R)     rasalwd     DMBOOL       (enum: 1)
    tgent25     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(S)     initactv    DMBOOL       (enum: 1)
(T)     autoparm    DMAUTOPARM   (enum: 2)
(U)     ac          DMBOOL       (enum: 1)
(V)     rasalwd     DMBOOL       (enum: 1)
    tgent26     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(W)     initactv    DMBOOL       (enum: 1)
(X)     autoparm    DMAUTOPARM   (enum: 2)
(Y)     ac          DMBOOL       (enum: 1)
(Z)     rasalwd     DMBOOL       (enum: 1)
    tgent27     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(a)     initactv    DMBOOL       (enum: 1)
(b)     autoparm    DMAUTOPARM   (enum: 2)
(c)     ac          DMBOOL       (enum: 1)
(d)     rasalwd     DMBOOL       (enum: 1)
    tgent28     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(e)     initactv    DMBOOL       (enum: 1)
(f)     autoparm    DMAUTOPARM   (enum: 2)
(g)     ac          DMBOOL       (enum: 1)
(h)     rasalwd     DMBOOL       (enum: 1)
    tgent29     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(i)     initactv    DMBOOL       (enum: 1)
(j)     autoparm    DMAUTOPARM   (enum: 2)
(k)     ac          DMBOOL       (enum: 1)
(l)     rasalwd     DMBOOL       (enum: 1)
    tgent30     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(m)     initactv    DMBOOL       (enum: 1)
(n)     autoparm    DMAUTOPARM   (enum: 2)
(o)     ac          DMBOOL       (enum: 1)
(p)     rasalwd     DMBOOL       (enum: 1)
    tgent31     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(q)     initactv    DMBOOL       (enum: 1)
(r)     autoparm    DMAUTOPARM   (enum: 2)
(s)     ac          DMBOOL       (enum: 1)
(t)     rasalwd     DMBOOL       (enum: 1)
    tgent32     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(u)     initactv    DMBOOL       (enum: 1)
(v)     autoparm    DMAUTOPARM   (enum: 2)
(w)     ac          DMBOOL       (enum: 1)
(x)     rasalwd     DMBOOL       (enum: 1)
    tgent33     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(y)     initactv    DMBOOL       (enum: 1)
(z)     autoparm    DMAUTOPARM   (enum: 2)
(A)     ac          DMBOOL       (enum: 1)
```

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```
(B)     rasalwd     DMBOOL       (enum: 1)
    tgent34     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(C)     initactv    DMBOOL       (enum: 1)
(D)     autoparm    DMAUTOPARM   (enum: 2)
(E)     ac          DMBOOL       (enum: 1)
(F)     rasalwd     DMBOOL       (enum: 1)
    tgent35     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(G)     initactv    DMBOOL       (enum: 1)
(H)     autoparm    DMAUTOPARM   (enum: 2)
(I)     ac          DMBOOL       (enum: 1)
(J)     rasalwd     DMBOOL       (enum: 1)
    tgent36     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(K)     initactv    DMBOOL       (enum: 1)
(L)     autoparm    DMAUTOPARM   (enum: 2)
(M)     ac          DMBOOL       (enum: 1)
(N)     rasalwd     DMBOOL       (enum: 1)
    tgent37     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(O)     initactv    DMBOOL       (enum: 1)
(P)     autoparm    DMAUTOPARM   (enum: 2)
(Q)     ac          DMBOOL       (enum: 1)
(R)     rasalwd     DMBOOL       (enum: 1)
    tgent38     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(S)     initactv    DMBOOL       (enum: 1)
(T)     autoparm    DMAUTOPARM   (enum: 2)
(U)     ac          DMBOOL       (enum: 1)
(V)     rasalwd     DMBOOL       (enum: 1)
    tgent39     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(W)     initactv    DMBOOL       (enum: 1)
(X)     autoparm    DMAUTOPARM   (enum: 2)
(Y)     ac          DMBOOL       (enum: 1)
(Z)     rasalwd     DMBOOL       (enum: 1)
    tgent40     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(a)     initactv    DMBOOL       (enum: 1)
(b)     autoparm    DMAUTOPARM   (enum: 2)
(c)     ac          DMBOOL       (enum: 1)
(d)     rasalwd     DMBOOL       (enum: 1)
    tgent41     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(e)     initactv    DMBOOL       (enum: 1)
(f)     autoparm    DMAUTOPARM   (enum: 2)
(g)     ac          DMBOOL       (enum: 1)
(h)     rasalwd     DMBOOL       (enum: 1)
    tgent42     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(i)     initactv    DMBOOL       (enum: 1)
(j)     autoparm    DMAUTOPARM   (enum: 2)
(k)     ac          DMBOOL       (enum: 1)
```

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```
(l)     rasalwd     DMBOOL       (enum: 1)
    tgent43     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(m)     initactv    DMBOOL       (enum: 1)
(n)     autoparm    DMAUTOPARM   (enum: 2)
(o)     ac          DMBOOL       (enum: 1)
(p)     rasalwd     DMBOOL       (enum: 1)
    tgent44     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(q)     initactv    DMBOOL       (enum: 1)
(r)     autoparm    DMAUTOPARM   (enum: 2)
(s)     ac          DMBOOL       (enum: 1)
(t)     rasalwd     DMBOOL       (enum: 1)
    tgent45     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(u)     initactv    DMBOOL       (enum: 1)
(v)     autoparm    DMAUTOPARM   (enum: 2)
(w)     ac          DMBOOL       (enum: 1)
(x)     rasalwd     DMBOOL       (enum: 1)
    tgent46     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(y)     initactv    DMBOOL       (enum: 1)
(z)     autoparm    DMAUTOPARM   (enum: 2)
(A)     ac          DMBOOL       (enum: 1)
(B)     rasalwd     DMBOOL       (enum: 1)
    tgent47     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(C)     initactv    DMBOOL       (enum: 1)
(D)     autoparm    DMAUTOPARM   (enum: 2)
(E)     ac          DMBOOL       (enum: 1)
(F)     rasalwd     DMBOOL       (enum: 1)
    tgent48     DMFACLENT    (struct)
        fid         DMMCC_FID    (ushort)
(G)     initactv    DMBOOL       (enum: 1)
(H)     autoparm    DMAUTOPARM   (enum: 2)
(I)     ac          DMBOOL       (enum: 1)
(J)     rasalwd     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   RCTGFEAT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |              tgn              |*******************************|
   |===============+===========  tgent1 ===========+===============|
   |                               | |   | | |                     |
 4 |              fid              |a| b |c|d|*********************|
   |===============+===========  tgent2 ===========+===============|
   |                               | |   | | |                     |
 8 |              fid              |e| f |g|h|*********************|
   |===============+===========  tgent3 ===========+===============|
   |                               | |   | | |                     |
12 |              fid              |i| j |k|l|*********************|
   |===============+===========  tgent4 ===========+===============|
   |                               | |   | | |                     |
```

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```
16 |              fid              |m| n |o|p|**********************|
   |===============+===========  tgent5 ===========+===============|
   |                               | |   | | |                      |
20 |              fid              |q| r |s|t|**********************|
   |===============+===========  tgent6 ===========+===============|
   |                               | |   | | |                      |
24 |              fid              |u| v |w|x|**********************|
   |===============+===========  tgent7 ===========+===============|
   |                               | |   | | |                      |
28 |              fid              |y| z |A|B|**********************|
   |===============+===========  tgent8 ===========+===============|
   |                               | |   | | |                      |
32 |              fid              |C| D |E|F|**********************|
   |===============+===========  tgent9 ===========+===============|
   |                               | |   | | |                      |
36 |              fid              |G| H |I|J|**********************|
   |===============+=========== tgent10 ===========+===============|
   |                               | |   | | |                      |
40 |              fid              |K| L |M|N|**********************|
   |===============+=========== tgent11 ===========+===============|
   |                               | |   | | |                      |
44 |              fid              |O| P |Q|R|**********************|
   |===============+=========== tgent12 ===========+===============|
   |                               | |   | | |                      |
48 |              fid              |S| T |U|V|**********************|
   |===============+=========== tgent13 ===========+===============|
   |                               | |   | | |                      |
52 |              fid              |W| X |Y|Z|**********************|
   |===============+=========== tgent14 ===========+===============|
   |                               | |   | | |                      |
56 |              fid              |a| b |c|d|**********************|
   |===============+=========== tgent15 ===========+===============|
   |                               | |   | | |                      |
60 |              fid              |e| f |g|h|**********************|
   |===============+=========== tgent16 ===========+===============|
   |                               | |   | | |                      |
64 |              fid              |i| j |k|l|**********************|
   |===============+=========== tgent17 ===========+===============|
   |                               | |   | | |                      |
68 |              fid              |m| n |o|p|**********************|
   |===============+=========== tgent18 ===========+===============|
   |                               | |   | | |                      |
72 |              fid              |q| r |s|t|**********************|
   |===============+=========== tgent19 ===========+===============|
   |                               | |   | | |                      |
76 |              fid              |u| v |w|x|**********************|
   |===============+=========== tgent20 ===========+===============|
   |                               | |   | | |                      |
80 |              fid              |y| z |A|B|**********************|
   |===============+=========== tgent21 ===========+===============|
   |                               | |   | | |                      |
84 |              fid              |C| D |E|F|**********************|
   |===============+=========== tgent22 ===========+===============|
   |                               | |   | | |                      |
```

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```
 88 |              fid              |G| H |I|J|**********************|
    |===============+=========== tgent23 ===========+===============|
    |                               | |   | | |                      |
 92 |              fid              |K| L |M|N|**********************|
    |===============+=========== tgent24 ===========+===============|
    |                               | |   | | |                      |
 96 |              fid              |O| P |Q|R|**********************|
    |===============+=========== tgent25 ===========+===============|
    |                               | |   | | |                      |
100 |              fid              |S| T |U|V|**********************|
    |===============+=========== tgent26 ===========+===============|
    |                               | |   | | |                      |
104 |              fid              |W| X |Y|Z|**********************|
    |===============+=========== tgent27 ===========+===============|
    |                               | |   | | |                      |
108 |              fid              |a| b |c|d|**********************|
    |===============+=========== tgent28 ===========+===============|
    |                               | |   | | |                      |
112 |              fid              |e| f |g|h|**********************|
    |===============+=========== tgent29 ===========+===============|
    |                               | |   | | |                      |
116 |              fid              |i| j |k|l|**********************|
    |===============+=========== tgent30 ===========+===============|
    |                               | |   | | |                      |
120 |              fid              |m| n |o|p|**********************|
    |===============+=========== tgent31 ===========+===============|
    |                               | |   | | |                      |
124 |              fid              |q| r |s|t|**********************|
    |===============+=========== tgent32 ===========+===============|
    |                               | |   | | |                      |
128 |              fid              |u| v |w|x|**********************|
    |===============+=========== tgent33 ===========+===============|
    |                               | |   | | |                      |
132 |              fid              |y| z |A|B|**********************|
    |===============+=========== tgent34 ===========+===============|
    |                               | |   | | |                      |
136 |              fid              |C| D |E|F|**********************|
    |===============+=========== tgent35 ===========+===============|
    |                               | |   | | |                      |
140 |              fid              |G| H |I|J|**********************|
    |===============+=========== tgent36 ===========+===============|
    |                               | |   | | |                      |
144 |              fid              |K| L |M|N|**********************|
    |===============+=========== tgent37 ===========+===============|
    |                               | |   | | |                      |
148 |              fid              |O| P |Q|R|**********************|
    |===============+=========== tgent38 ===========+===============|
    |                               | |   | | |                      |
152 |              fid              |S| T |U|V|**********************|
    |===============+=========== tgent39 ===========+===============|
    |                               | |   | | |                      |
156 |              fid              |W| X |Y|Z|**********************|
    |===============+=========== tgent40 ===========+===============|
    |                               | |   | | |                      |
```

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```
160 |              fid              |a| b |c|d|**********************|
    |===============+=========== tgent41 ===========+===============|
    |                               | |   | | |                      |
164 |              fid              |e| f |g|h|**********************|
    |===============+=========== tgent42 ===========+===============|
    |                               | |   | | |                      |
168 |              fid              |i| j |k|l|**********************|
    |===============+=========== tgent43 ===========+===============|
    |                               | |   | | |                      |
172 |              fid              |m| n |o|p|**********************|
    |===============+=========== tgent44 ===========+===============|
    |                               | |   | | |                      |
176 |              fid              |q| r |s|t|**********************|
    |===============+=========== tgent45 ===========+===============|
    |                               | |   | | |                      |
180 |              fid              |u| v |w|x|**********************|
    |===============+=========== tgent46 ===========+===============|
    |                               | |   | | |                      |
184 |              fid              |y| z |A|B|**********************|
    |===============+=========== tgent47 ===========+===============|
    |                               | |   | | |                      |
188 |              fid              |C| D |E|F|**********************|
    |===============+=========== tgent48 ===========+===============|
    |                               | |   | | |                      |
192 |              fid              |G| H |I|J|**********************|
    |===============+===============+===============+===============|
       ( 196 bytes )
domain alRCTGFEAT struct  (2 sub-attributes)
         tgn         unsigned short (ushort)
         tgent       .0.fake      (array [ 48 ] of .2fake )
             fid         unsigned short (ushort)
 (a)         initactv    .0fake       (enum)
 (b)         autoparm    .1fake       (enum)
 (c)         ac          .0fake       (enum)
 (d)         rasalwd     .0fake       (enum)

         Structure Layout      alRCTGFEAT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              tgn              |*******************************|
    |===============+==========  tgent[0] ==========+===============|
    |                               | |   | | |                      |
  4 |              fid              |a| b |c|d|**********************|
    |===============+==========  tgent[1] ==========+===============|
    |                               | |   | | |                      |
  8 |              fid              |a| b |c|d|**********************|
    |===============+==========  tgent[2] ==========+===============|
    |                               | |   | | |                      |
 12 |              fid              |a| b |c|d|**********************|
    |===============+==========  tgent[3] ==========+===============|
    |                               | |   | | |                      |
 16 |              fid              |a| b |c|d|**********************|
```

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```
    |===============+==========  tgent[4] ==========+===============|
                                      .
                                      .
                                      .
    |===============+========== tgent[46] ==========+===============|
    |                                 | |   | | |                    |
188 |               fid               |a| b |c|d|********************|
    |===============+========== tgent[47] ==========+===============|
    |                                 | |   | | |                    |
192 |               fid               |a| b |c|d|********************|
    |===============+===============+===============+===============|
       ( 196 bytes )
```

## 4. Population Rules for RLrctgfeat

**Relation Description**
List of BRCS constructed features to be assigned to each trunk group member as the member is inserted.

There is a tuple in this relation for each trunk group that wants BRCS features assigned to members automatically as each member is inserted. BRCS features may be assigned to members without a tuple in this relation.

The tuple is keyed by trunk group number and consists of up to 48 trunk group (tg) entries. Each tg entry contains the data needed to assign a BRCS feature to a trunk member.

Null tg entries contain the following values:

```
id   = 0
act  = DBNO
parm = APNO
ac   = DBNO
rasalwd = DBNO
```

Non-null entries must precede null tg entries in the tg list. For example, null tg entries cannot be interspersed among non-null tg entries.

**Attribute: tgn**

**Fullname:** Trunk Group Number

**Attribute Description** Indicates the trunk group that will use this relation to store the feature and cluster ID's. A tuple in relation RLrt_trkg must exist and be keyed by this tgn.

**Attribute: tgent1**

**Fullname:** Trunk Group Entry 1 Structure

**Attribute Description** Trunk group entry structure 1 - 48.

**Attribute: tgent1.fid**

**Fullname:** Feature ID

**Attribute Description** Indicates the constructed feature ID. There must be a tuple in RLfacname with a facid equal to this id with class = FACBRCS and subclass = SCL_FEAT. Clusters are not supported.

**Attribute: tgent1.initactv**

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**Fullname:** Initial Activation

**Attribute Description** Indicates the initial activation status for each ID. DBNO indicates the ID is inactive: DBYES indicates the ID is active.

**Attribute: tgent1.autoparm**

**Fullname:** Automatic Parameter

**Attribute Description** Unused attribute - not to be populated.

**Attribute: tgent1.ac**

**Fullname:** Authorization Code

**Attribute Description** Indicates that an authorization code is needed to access the feature defined by the ID attribute from any trunk in this group.
(For ODA only, if ac = DBYES then the feature defined by the id attribute must be in the RLath_fcos relation. The range of values is DBYES and DBNO with DBNO as the default. DBYES indicates an authorization code is needed for all members of the trunk group, however, a corresponding field (ath) in TRMFEATS overrides this value for individual trunks.)

**Attribute: tgent1.rasalwd**

**Fullname:** Remote Access Service (RAS)

**Attribute Description** This bit determines if Remote Access Service (RAS) is supported for this ID. For the 5E5 generic, this bit is not used and should always be set to DBNO.

**Attribute: tgent[*]**

**Fullname:** Trunk Group Entry 1 Structure

**Attribute Description** Trunk group entry structure 1 - 48.

**Attribute: tgent[*].fid**

**Fullname:** Feature ID

**Attribute Description** Indicates the constructed feature ID. There must be a tuple in RLfacname with a facid equal to this ID with class = FACBRCS and subclass = SCL_FEAT. Clusters are not supported.

**Attribute: tgent[*].initactv**

**Fullname:** Initial Activation

**Attribute Description** Indicates the initial activation status for each ID. DBNO indicates the id is inactive: DBYES indicates the ID is active.

**Attribute: tgent[*].autoparm**

**Fullname:** Automatic Parameter

**Attribute Description** Unused attribute - not to be populated.

**Attribute: tgent[*].ac**

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**Fullname:** Authorization code

**Attribute Description** Indicates that an authorization code is needed to access the feature defined by the id attribute from any trunk in this group. For ODA only, if ac = DBYES then the feature defined by the id attribute must be in the RLath_fcos relation. The range of values is DBYES and DBNO with DBNO as the default. DBYES indicates an authorization code is needed for all members of the trunk group, however, a corresponding field (ath) in BRCFEATS overrides this value for individual trunks.

**Attribute: tgent[*].rasalwd**

**Fullname:** Remote Access Service (RAS)

**Attribute Description** This bit determines if Remote Access Service (RAS) is supported for this ID. For the 5E5 generic, this bit is not used and should always be set to DBNO.

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# RCTGRPRK

## 1. Description

This relation contains the trunk group recent change remarks data.

This is a virtual relation. The Root Storage Relation is RLtgrprk_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation RCTGRPRK.

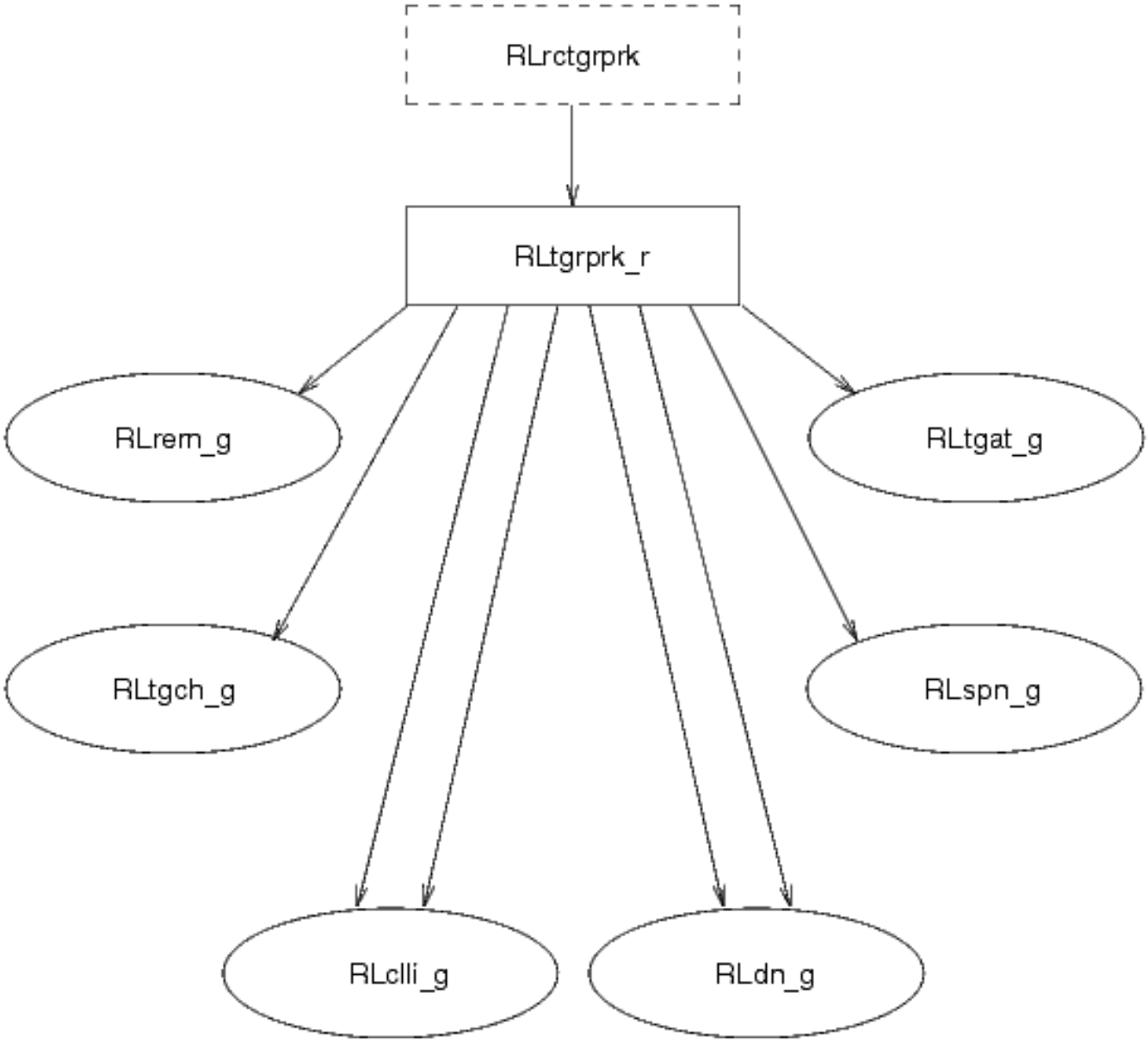


**Figure 1 Virtual Relation RCTGRPRK**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | CCS |

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| | |
|---|---|
| relation type | DBSTATIC |
| trigger function | NMtgrmk_trig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

### 3. Field Layout

```
RCTGRPRK    relid = 90    DBSTATIC   DBACC_OPV   DBNOTODD  LP      CCS


    vcdata      DMVC_DATA    (struct)
        orignpa     DMNPA        (array [ 3 ] of char )
        offcode     DMOFFCODE    (array [ 24 ] of char )
(a)     offcnt      DMUNS3       (ushort: 3)
    rem         DMTEXT       (array [ 16 ] of char )
    eonbill_dn  DMDN         (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
    netgrp      DMFACNAME    (array [ 8 ] of char )
    carrid      DMCIC4       (array [ 4 ] of char )
    portgrp     DMPORTGRP    (struct)  <--- key, compacted
        grpnum      DMGRPNUM     (ushort)
(b)     grptype     DMPTYPE      (enum: 1)
    dircon_dn   DMDN         (struct)  <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
    billingdn   DMDN         (struct)  <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
    insep       DMINSEP      (ushort: 8)
    ffcf5       DMUNS8       (ushort: 8)
    trignum     DMUNS8       (ushort: 8)
    digtree     DMDA_TREE    (ushort: 7)
(c) ln_virt_on  DMBOOL       (enum: 1)
(d) ccs7_typ    DMCCS7_TYP   (enum: 1)
(e) outpuls     DMBOOL       (enum: 1)
(f) audring     DMBOOL       (enum: 1)
(g) freetrm     DMBOOL       (enum: 1)
(h) cnrtninit   DMBOOL       (enum: 1)
(i) cnrtnfnl    DMBOOL       (enum: 1)
(j) tspsopr     DMBOOL       (enum: 1)
(k) ringbck     DMBOOL       (enum: 1)
(l) castmon     DMBOOL       (enum: 1)
(m) lowtndet    DMBOOL       (enum: 1)
(n) antype      DMBOOL       (enum: 1)
(o) bargein     DMBOOL       (enum: 1)
(p) fcaudible   DMBOOL       (enum: 1)
(q) free_ans    DMBOOL       (enum: 1)
(r) brc         DMBOOL       (enum: 1)
(s) cut_thru    DMBOOL       (enum: 1)
(t) inc_tndwnk  DMBOOL       (enum: 1)
(u) trk_qry     DMBOOL       (enum: 1)
(v) xlt_tst     DMBOOL       (enum: 1)
(w) sdnded      DMBOOL       (enum: 1)
```

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```
(x) sgd          DMBOOL       (enum: 1)
(y) unres_ea     DMBOOL       (enum: 1)
(z) pvnterm      DMBOOL       (enum: 1)
(A) retry        DMBOOL       (enum: 1)
(B) lsdel_ans    DMBOOL       (enum: 1)
(C) rdta_grp     DMBOOL       (enum: 1)
(D) ani6         DMBOOL       (enum: 1)
(E) ani7         DMBOOL       (enum: 1)
(F) asi_use      DMBOOL       (enum: 1)
(G) utt          DMBOOL       (enum: 1)
(H) ffcf1        DMBOOL       (enum: 1)
(I) ffcf2        DMBOOL       (enum: 1)
    npsn         DMSHORT      (short)
    ct_trig      DMUNS8       (ushort: 8)
    lrn_das      DMDA_TREE    (ushort: 7)
(J) dal_egress   DMBOOL       (enum: 1)
    esco         DMESCO       (ushort: 10)
    lnpsnid      DMUNS5       (ushort: 5)
(K) chg_rstrct   DMBOOL       (enum: 1)
    servclass    DMSERVCLASS  (enum)
    module       DMMODULE     (ushort: 8)
    fac_num      DMUNS17      (ulong: 17)
    apicode      DMUNS14      (ushort: 14)
(L) uuiic_rstrct  DMBOOL        (enum: 1)
    maxhopcnt    DMUNS5       (ushort: 5)
(M) acctprompt   DMACCTPR     (enum: 3)
(N) ancycl       DMANCYCL     (ushort: 3)
(O) ani_type     DMUNS3       (ushort: 3)
(P) rcd_3pt1_itc  DMRCD_3PT1   (enum: 2)
(Q) intsig       DMINTERSIG   (enum: 2)
(R) datarate     DMDATARATE   (enum: 2)
(S) ln_type      DMLNTYPE     (enum: 2)
(T) std_fxtie    DMFX_TIE     (enum: 2)
(U) mlppstage    DMMLPPST     (enum: 2)
(V) pref_npa     DMPREF_NPA   (enum: 2)
(W) eon_plan     DMEON_PLAN   (enum: 2)
(X) atpic_rstrct  DMBOOL        (enum: 1)
(Y) cfn_rstrct   DMBOOL       (enum: 1)
(Z) ffcf3        DMBOOL       (enum: 1)
(a) ffcf4        DMBOOL       (enum: 1)
(b) cont_test    DMBOOL       (enum: 1)
(c) spbool1      DMBOOL       (enum: 1)
(d) spbool2      DMBOOL       (enum: 1)
(e) mltislcopt   DMBOOL       (enum: 1)
(f) mai          DMMAI        (enum: 1)
(g) asptoll      DMBOOL       (enum: 1)
(h) far_e911     DMBOOL       (enum: 1)
(i) tdx_trk      DMBOOL       (enum: 1)
(j) term_bill    DMBOOL       (enum: 1)
(k) ani_proc     DMBOOL       (enum: 1)
(l) isupmld      DMBOOL       (enum: 1)
(m) ported       DMBOOL       (enum: 1)
(n) asp_carrtrig  DMBOOL        (enum: 1)
(o) vpn_access   DMBOOL       (enum: 1)
```

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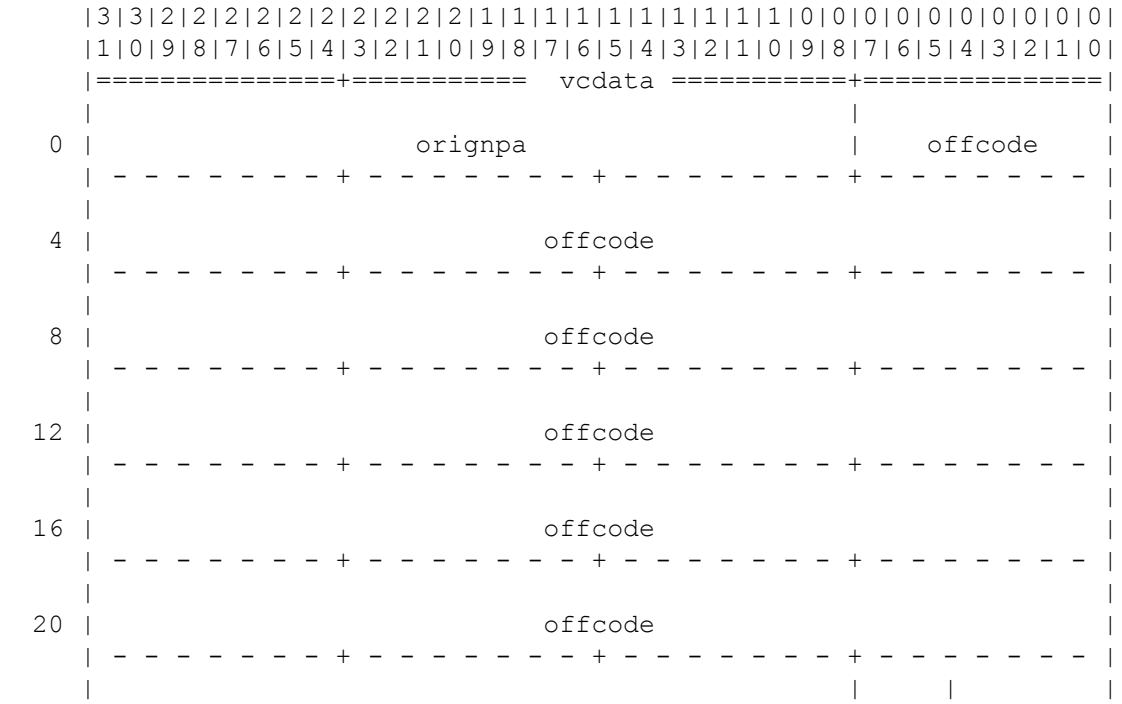
```
(p) mbg_trans   DMBOOL       (enum: 1)
(q) ct_for_dt   DMBOOL       (enum: 1)
(r) eonpriv_ind  DMBOOL       (enum: 1)
(s) eonpref_ind  DMBOOL       (enum: 1)
(t) annc_apl    DMSVC_GRP    (enum: 3)
(u) privacy     DMBOOL       (enum: 1)
(v) e911type    DME911TYPE   (enum: 4)
(w) vpa_type    DMVPA_TYPE   (enum: 4)
(x) mint_sig    DMMSIGTYPE   (enum: 3)
(y) featgrp     DMFEATGRP    (enum: 2)
(z) fgdcicsz    DMSZFGD      (enum: 2)
(A) queue_inh   DMBOOL       (enum: 1)
(B) net_indicator  DMNIND       (enum: 2)
(C) ctxid       DMCTXID      (enum: 2)
(D) spc_pbx     DMBOOL       (enum: 1)
(E) dal_access  DMBOOL       (enum: 1)
(F) passani     DMBOOL       (enum: 1)
(G) ldpsp1      DMBOOL       (enum: 1)
(H) ldpsp2      DMBOOL       (enum: 1)
(I) ldpsp3      DMBOOL       (enum: 1)
(J) dnis_user   DMBOOL       (enum: 1)
(K) rel_link_init  DMBOOL       (enum: 1)
(L) glare_action  DMGLARE      (enum: 2)
    screen_x    DMSCRNIDX    (ushort: 12)
    tsps        DMTSPSTRAF   (enum: 3)
(M) cpn_rstrct  DMBOOL       (enum: 1)
    mkbusykey   DMSPN        (array [ 10 ] of char )
    ffcf6       DMHEX16      (ushort)
    tg_char     DMTEXT15     (array [ 15 ] of char )
    fe_clli     DMCLLI       (array [ 11 ] of char )
    ne_clli     DMCLLI       (array [ 11 ] of char )
```

User Tuple Layout RCTGRPRK

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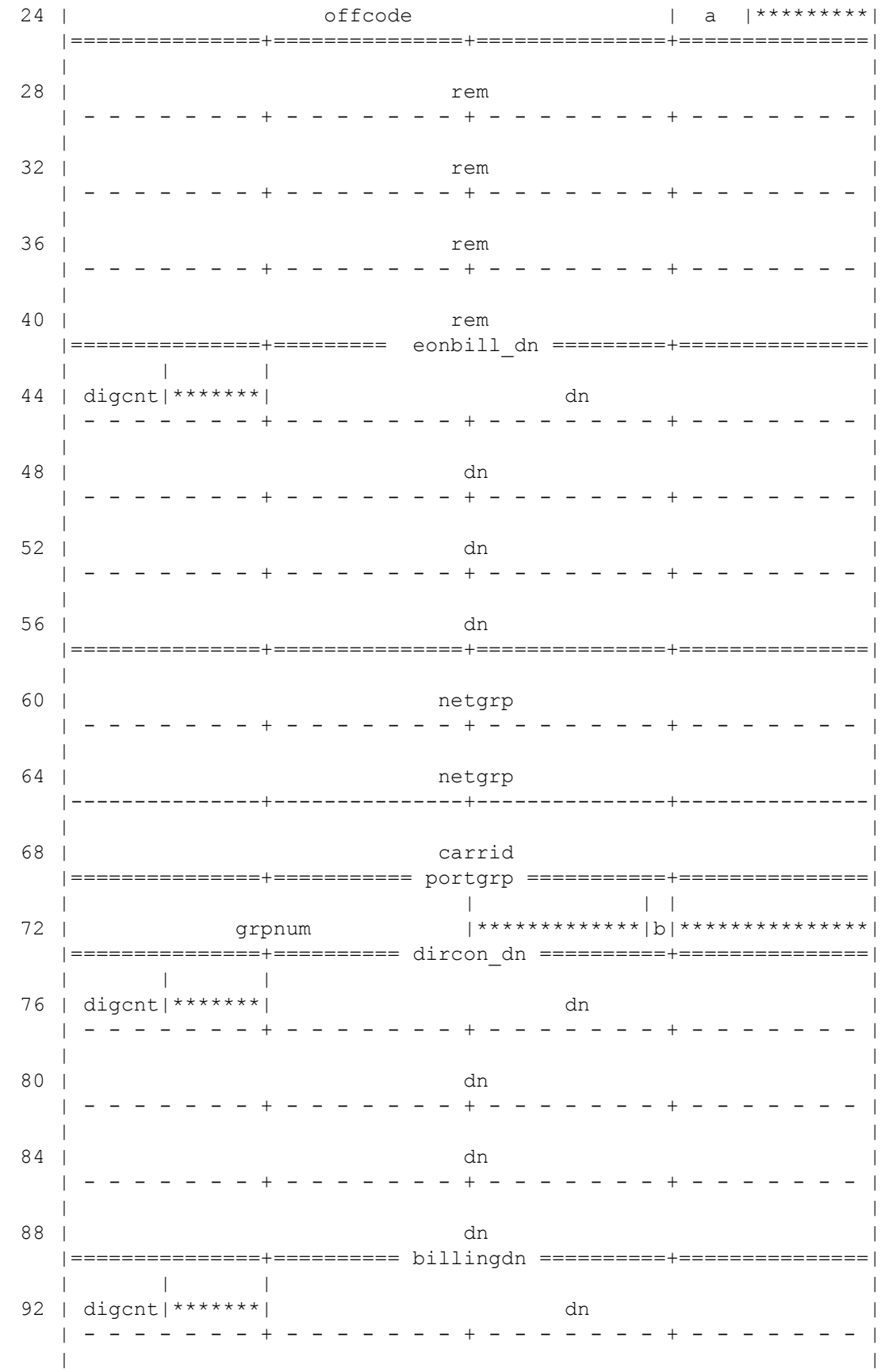
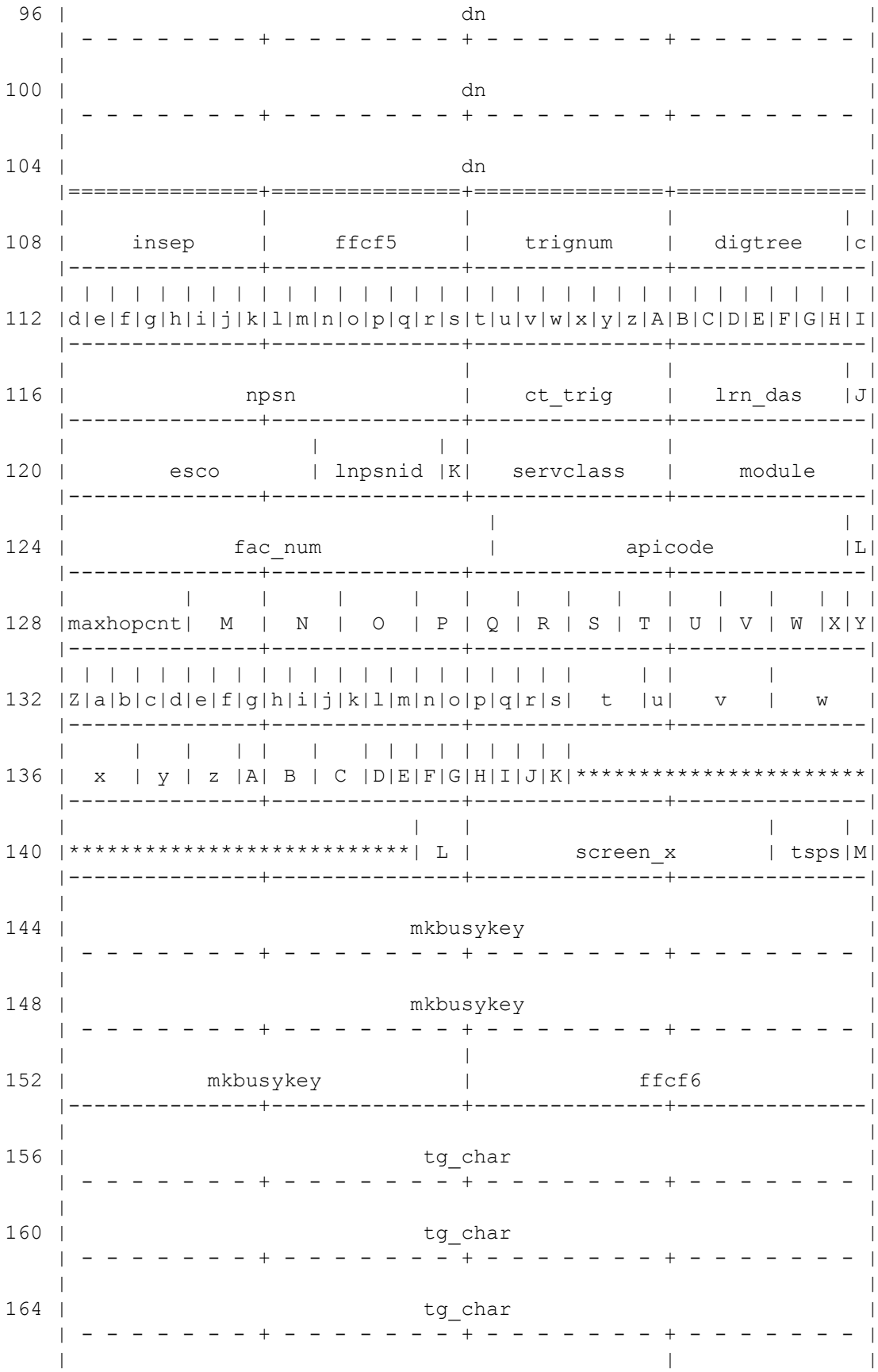
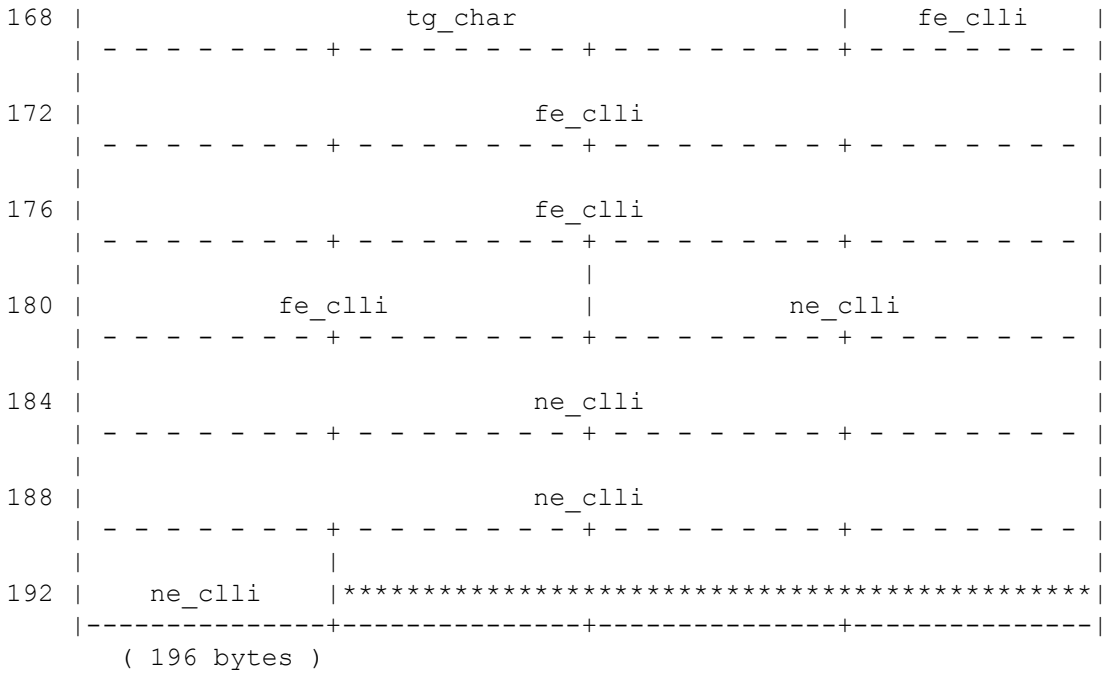

offcode
a
rem
rem
rem
rem
eonbill_dn
digcnt
dn
dn
dn
dn
netgrp
netgrp
carrid
portgrp
grpnum
b
dircon_dn
digcnt
dn
dn
dn
billingdn
digcnt
dn


96
dn
100
dn
104
dn
108
insep
ffcf5
trignum
digtree
c
112
d e f g h i j k l m n o p q r s t u v w x y z A B C D E F G H I
116
npsn
ct_trig
lrn_das
J
120
esco
lnpsnid
K
servclass
module
124
fac_num
apicode
L
128
maxhopcnt
M
N
O
P
Q
R
S
T
U
V
W
X
Y
132
Z a b c d e f g h i j k l m n o p q r s
t
u
v
w
136
x
y
z
A
B
C
D E F G H I J K
140
L
screen_x
tsps
M
144
mkbusykey
148
mkbusykey
152
mkbusykey
ffcf6
156
tg_char
160
tg_char
164
tg_char




( 196 bytes )

```
    vcdata      DMVC_DATA    (struct)
        orignpa     DMNPA        (array [ 3 ] of char )
        offcode     DMOFFCODE    (array [ 24 ] of char )
 (a)    offcnt      DMUNS3       (ushort: 3)
    rem         DMTEXT       (array [ 16 ] of char )
    eonbill_dn  DMDN         (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
    netgrp      DMFACNAME    (array [ 8 ] of char )
    carrid      DMCIC4       (array [ 4 ] of char )
    portgrp     DMCPRTGP     (struct)  <--- key, compacted
 (b)    zerobits    DMUNS3       (ushort: 3)
        grpnum      DMGRUPNM     (ushort: 13)
 (c)    grptype     DMPTYPE      (enum: 1)
    dircon_dn   DMCDN        (struct)  <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
```

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```
    billingdn   DMCDN        (struct)  <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    insep       DMINSEP      (ushort: 8)
    ffcf5       DMUNS8       (ushort: 8)
    trignum     DMUNS8       (ushort: 8)
    digtree     DMDA_TREE    (ushort: 7)
(d) ln_virt_on  DMBOOL       (enum: 1)
(e) ccs7_typ    DMCCS7_TYP   (enum: 1)
(f) outpuls     DMBOOL       (enum: 1)
(g) audring     DMBOOL       (enum: 1)
(h) freetrm     DMBOOL       (enum: 1)
(i) cnrtninit   DMBOOL       (enum: 1)
(j) cnrtnfnl    DMBOOL       (enum: 1)
(k) tspsopr     DMBOOL       (enum: 1)
(l) ringbck     DMBOOL       (enum: 1)
(m) castmon     DMBOOL       (enum: 1)
(n) lowtndet    DMBOOL       (enum: 1)
(o) antype      DMBOOL       (enum: 1)
(p) bargein     DMBOOL       (enum: 1)
(q) fcaudible   DMBOOL       (enum: 1)
(r) free_ans    DMBOOL       (enum: 1)
(s) brc         DMBOOL       (enum: 1)
(t) cut_thru    DMBOOL       (enum: 1)
(u) inc_tndwnk  DMBOOL       (enum: 1)
(v) trk_qry     DMBOOL       (enum: 1)
(w) xlt_tst     DMBOOL       (enum: 1)
(x) sdnded      DMBOOL       (enum: 1)
(y) sgd         DMBOOL       (enum: 1)
(z) unres_ea    DMBOOL       (enum: 1)
(A) pvnterm     DMBOOL       (enum: 1)
(B) retry       DMBOOL       (enum: 1)
(C) lsdel_ans   DMBOOL       (enum: 1)
(D) rdta_grp    DMBOOL       (enum: 1)
(E) ani6        DMBOOL       (enum: 1)
(F) ani7        DMBOOL       (enum: 1)
(G) asi_use     DMBOOL       (enum: 1)
(H) utt         DMBOOL       (enum: 1)
(I) ffcf1       DMBOOL       (enum: 1)
(J) ffcf2       DMBOOL       (enum: 1)
```

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```
    npsn         DMSHORT      (short)
    ct_trig      DMUNS8       (ushort: 8)
    lrn_das      DMDA_TREE    (ushort: 7)
(K) dal_egress   DMBOOL       (enum: 1)
    esco         DMESCO       (ushort: 10)
    lnpsnid      DMUNS5       (ushort: 5)
(L) chg_rstrct   DMBOOL       (enum: 1)
    servclass    DMSERVCLASS  (enum)
    module       DMMODULE     (ushort: 8)
    fac_num      DMUNS17      (ulong: 17)
    apicode      DMUNS14      (ushort: 14)
(M) uuiic_rstrct  DMBOOL       (enum: 1)
    maxhopcnt    DMUNS5       (ushort: 5)
(N) acctprompt   DMACCTPR     (enum: 3)
(O) ancycl       DMANCYCL     (ushort: 3)
(P) ani_type     DMUNS3       (ushort: 3)
(Q) rcd_3pt1_itc  DMRCD_3PT1   (enum: 2)
(R) intsig       DMINTERSIG   (enum: 2)
(S) datarate     DMDATARATE   (enum: 2)
(T) ln_type      DMLNTYPE     (enum: 2)
(U) std_fxtie    DMFX_TIE     (enum: 2)
(V) mlppstage    DMMLPPST     (enum: 2)
(W) pref_npa     DMPREF_NPA   (enum: 2)
(X) eon_plan     DMEON_PLAN   (enum: 2)
(Y) atpic_rstrct  DMBOOL       (enum: 1)
(Z) cfn_rstrct   DMBOOL       (enum: 1)
(a) ffcf3        DMBOOL       (enum: 1)
(b) ffcf4        DMBOOL       (enum: 1)
(c) cont_test    DMBOOL       (enum: 1)
(d) spbool1      DMBOOL       (enum: 1)
(e) spbool2      DMBOOL       (enum: 1)
(f) mltislcopt   DMBOOL       (enum: 1)
(g) mai          DMMAI        (enum: 1)
(h) asptoll      DMBOOL       (enum: 1)
(i) far_e911     DMBOOL       (enum: 1)
(j) tdx_trk      DMBOOL       (enum: 1)
(k) term_bill    DMBOOL       (enum: 1)
(l) ani_proc     DMBOOL       (enum: 1)
(m) isupmld      DMBOOL       (enum: 1)
(n) ported       DMBOOL       (enum: 1)
(o) asp_carrtrig  DMBOOL       (enum: 1)
(p) vpn_access   DMBOOL       (enum: 1)
(q) mbg_trans    DMBOOL       (enum: 1)
(r) ct_for_dt    DMBOOL       (enum: 1)
(s) eonpriv_ind   DMBOOL       (enum: 1)
(t) eonpref_ind   DMBOOL       (enum: 1)
(u) annc_apl     DMSVC_GRP    (enum: 3)
(v) privacy      DMBOOL       (enum: 1)
(w) e911type     DME911TYPE   (enum: 4)
(x) vpa_type     DMVPA_TYPE   (enum: 4)
(y) mint_sig     DMMSIGTYPE   (enum: 3)
(z) featgrp      DMFEATGRP    (enum: 2)
(A) fgdcicsz     DMSZFGD      (enum: 2)
(B) queue_inh    DMBOOL       (enum: 1)
```

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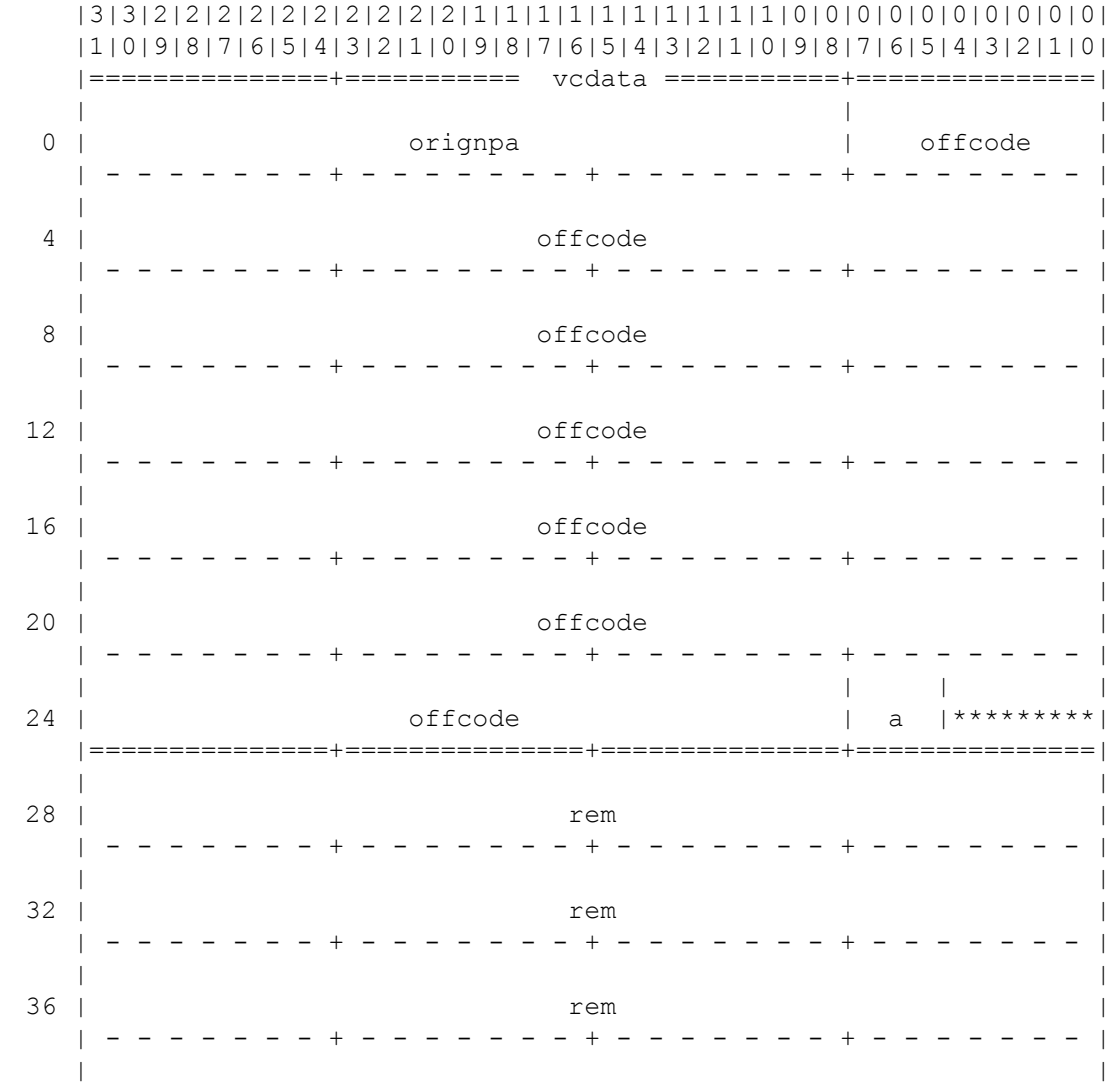
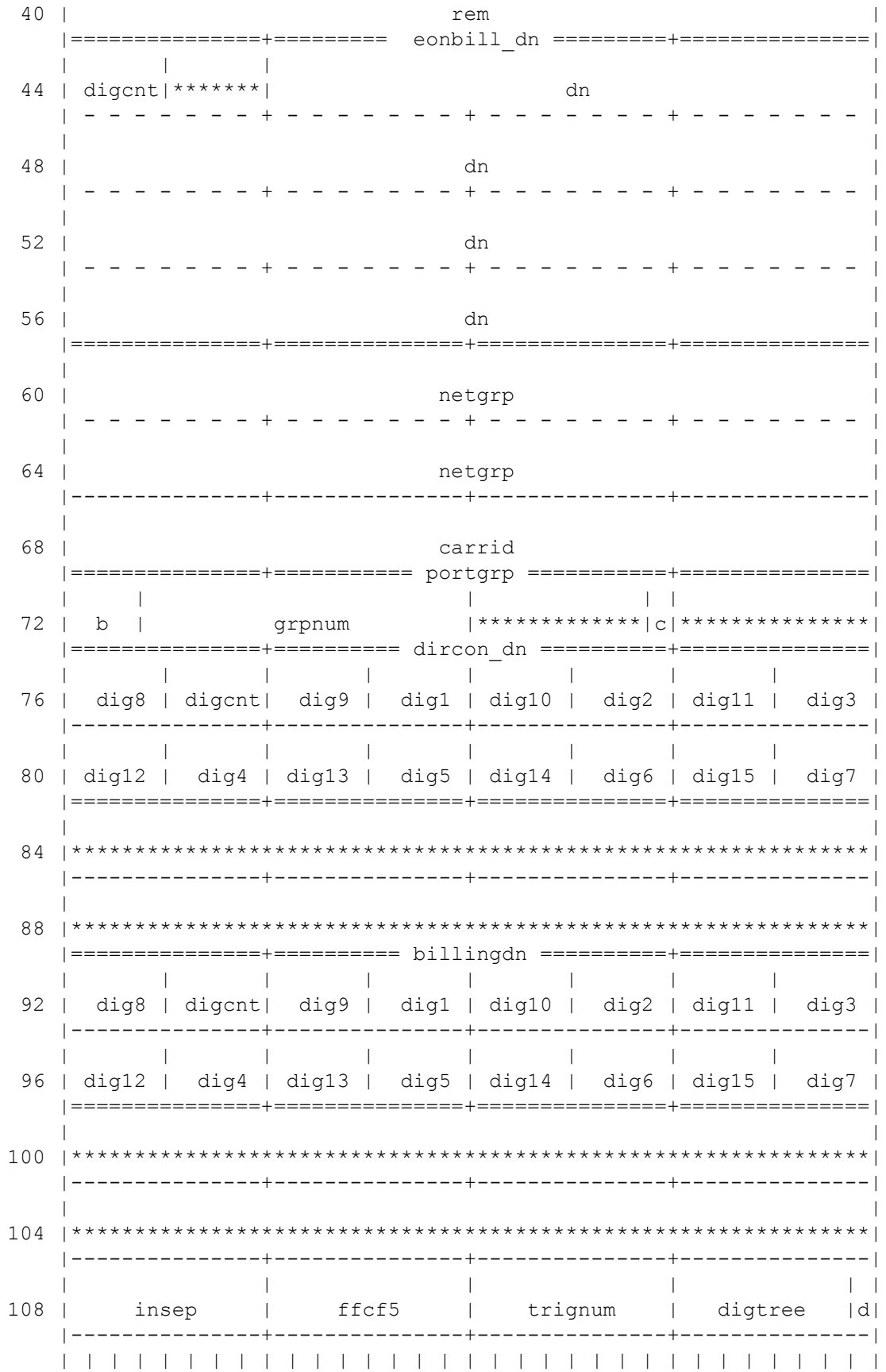
```
(C) net_indicator  DMNIND       (enum: 2)
(D) ctxid       DMCTXID      (enum: 2)
(E) spc_pbx     DMBOOL       (enum: 1)
(F) dal_access  DMBOOL       (enum: 1)
(G) passani     DMBOOL       (enum: 1)
(H) ldpsp1      DMBOOL       (enum: 1)
(I) ldpsp2      DMBOOL       (enum: 1)
(J) ldpsp3      DMBOOL       (enum: 1)
(K) dnis_user   DMBOOL       (enum: 1)
(L) rel_link_init  DMBOOL       (enum: 1)
(M) glare_action  DMGLARE      (enum: 2)
    screen_x    DMSCRNIDX    (ushort: 12)
    tsps        DMTSPSTRAF   (enum: 3)
(N) cpn_rstrct  DMBOOL       (enum: 1)
    mkbusykey   DMSPN        (array [ 10 ] of char )
    ffcf6       DMHEX16      (ushort)
    tg_char     DMTEXT15     (array [ 15 ] of char )
    fe_clli     DMCLLI       (array [ 11 ] of char )
    ne_clli     DMCLLI       (array [ 11 ] of char )
```

Compacted and Stored Tuple Layout RCTGRPRK



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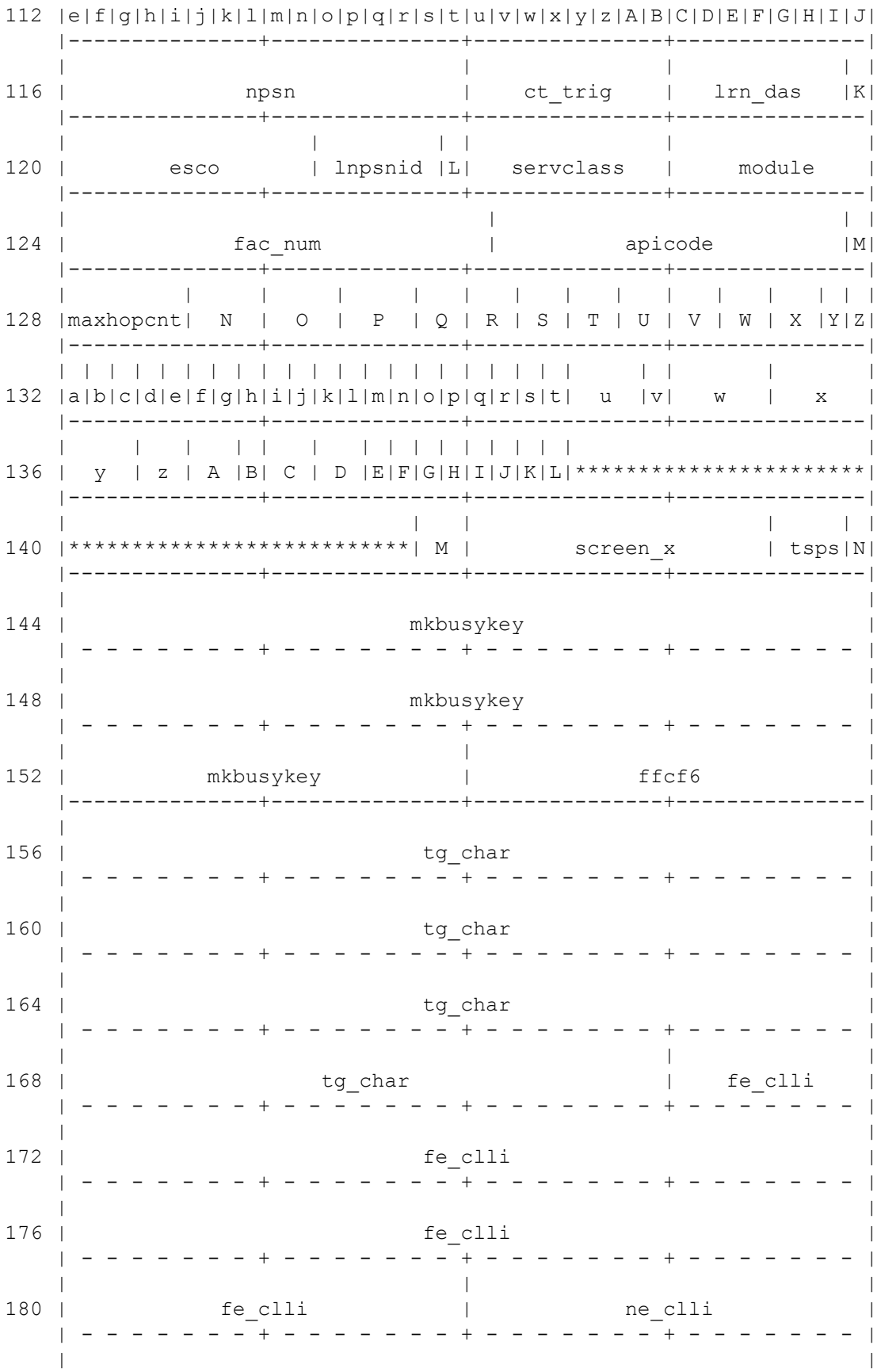


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```
184 |                          ne_clli                              |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
188 |                          ne_clli                              |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                 |                                             |
192 |    ne_clli      |*********************************************|
    |-----------------+-----------------+-----------------+---------------|
       ( 196 bytes )
```

## 4. Population rules for RLrctgrprk

### Relation Description

Recent change trunk group remarks

Trunk group recent change remarks data.

This rule is to be followed when populating trunk and routing information for originating access tandem and originating toll offices. For all incoming integrated services digital network (ISDN) user part 7 (ISUP7) trunks at an originating access tandem office and all incoming ISUP7 trunks at an originating toll office that handles international traffic, the circuit code must be populated in RLcktcddig.ckt_code. This is not an recent change (RC)/office data administration (ODA) enforceable rule.

When installing Common Channel Signaling System, Version 7 (CCS7) trunks which connect two networks, for example a local exchange carrier (LEC) and a long distance carrier, the following rules apply:

Note: These rules cannot be enforced by RC or ODA.

CCS7 trunks are trunks which have either RLrt_trkg.in_sigtype or RLrt_trkg.out_sigtype equal to DBISUP7.

The toll office (TO) end must have a servclass of FC_LATA_CONN. A toll office switch is any switch within an inter-LATA carrier (IC) or international carrier (INC) network.

FC_LATA_CONN trunks can connect to LEC switches which are either end offices (EO) or access tandem (AT) switches. AT switches allow calls to be distributed to or concentrated from appropriate end offices.

The EO or AT end must have a servclass of FC_IEC. An EO or AT is any switch that is within the LEC network.

FC_IEC trunks can connect to far switches which may be any one of the following carrier types:

Inter-LATA carrier

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```
        International carrier
        Consolidated carrier

Use of these TRK CLASS ('servclass') values, for trunks that
cross the network boundary, is necessary to utilize the
integrated services digital network (ISDN) user part (UP)
protocol for internetwork operations.


SPECIAL TRUNK GROUPS

RLrctgrprk (remote digital test access extended digital
    subscriber line [EDSL] primary rate interface [PRI]
    trunks - remote digital test access [RDTA])

DESCRIPTION:

The RDTA capability is fully explained in the relation RLdn_rdta.
The capability uses EDSL PRI trunk group members to connect RDTA
sessions to a remote CSC.  The following tuple semantics, define
the correct population of RDTA trunk groups in this relation.
The rdta_grp attribute must be DBYES, 'billingdn' must be null
for outgoing EDSL trunk groups and populated for two-way EDSL
trunk groups and the brc attribute must be DBNO.  The group
members must be used exclusively for RDTA.

Corresponding tuples must appear in the following relations:

     RLgroup_port    - keyed on trunk group and member
     RLpggpmap       - keyed on trunk port
     RLfc_porttyp    - keyed on trunk port (servclass = FCEDSL)
     RLedsltrkg      - keyed on trunk group with bill_dn null

QUANTITY OF TUPLES:

A tuple is required in RLrctgrprk for each RDTA test trunk
GROUP (outgoing or two-way) in the office.

TUPLE SEMANTICS:

RLrctgrprk attributes should be populated as shown in the
following.  Any attributes not specified should be populated
with the default value.

OUTGOING EDSL TRUNK GROUPS
--------------------------
portgrp.grpnum (KEY)  - Outgoing RDTA trunk group number.
portgrp.grptype (KEY) - TM_TRK.
rem                   - RDTA test trunk group (specify outgoing).
servclass             - FCEDSL.
module                - Zero.
digtree               - Zero (default).
insep                 - Zero (default).
screen_x              - Zero (default).
```

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```
glare_action          - GLR_NULL.
privacy               - DBNO.
ln_virt_on            - DBNO.
outpuls               - DBNO.
audring               - DBNO.
annc_apl              - SVCNO_ANNC.
intsig                - FCNO_SIG.
brc                   - DBNO.
billingdn             - 'digcnt' equals zero and 'dn' equals '\0').
datarate              - DBDATA_56K, DBDATA_R64K, DBDATA_64K.
vpa_type              - CCNONCCS.
npsn                  - Zero.
rdta_grp              - DBYES.

TWO WAY EDSL TRUNK GROUPS
-------------------------
portgrp.grpnum (KEY)  - Two-way RDTA trunk group number.
portgrp.grptype (KEY) - TM_TRK.
rem                   - RDTA test trunk group (specify two-way).
servclass             - FCEDSL.
module                - Zero.
digtree               - Is greater than zero (must be valid 'digtree'
                        for office EDSL trunks).
insep                 - Zero (default).
screen_x              - Is greater than zero(must be valid 'screen_x'
                        for office EDSL trunks)
glare_action          - ALLCTRL or NONECTRL.
privacy               - DBNO.
ln_virt_on            - DBNO.
outpuls               - DBNO.
audring               - DBNO.
annc_apl              - SVCNO_ANNC.
intsig                - FCNO_SIG.
brc                   - DBNO.
billingdn             - 'digcnt' is greater than or equal to seven
                        and 'dn' is seven or more digits.
datarate              - DBDATA_56K, DBDATA_R64K, DBDATA_64K.
vpa_type              - CCNONCCS.
npsn                  - Zero.
rdta_grp              - DBYES.
```

RLrctgrprk (local test desk test trunks - LTD)

DESCRIPTION:

LTD test trunks provide the interface to external testing systems (LTD, mechanized loop testing [MLT], Fortel, etc.) for metallic loop testing of lines. These trunks may be configured as incoming trunks (LTD to line tests) or outgoing trunks (line to LTD tests).

A separate outgoing LTD trunk group is required for each 'metallic community'. Thus, each remote module (remote switching

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module [RSM], optically remote switching module [ORM], two-mile ORM [TRM], multi-module RSM [MMRSM] cluster, etc.) which is not metallically linked to the host office must have its own outgoing LTD trunk group to provide LTD access from the lines within that module/cluster. Each remote module must have its own incoming LTD test trunk CIRCUIT(S), but this circuit(s) may be included in the same trunk group as the non-remote module incoming test trunks.

Corresponding tuples must appear in the following relations:

```
RLrc_trk      - keyed on trunk group and member
RLrt_trkg     - keyed on trunk group
RLgroup_port  - keyed on trunk group and member
RLpggpmap     - keyed on trunk port
RLfc_porttyp  - keyed on trunk port (servclass = TM_TSTK)
RLfc_trunk    - keyed on trunk port
RLmtbtst      - keyed on trunk port
```

QUANTITY OF TUPLES:

A tuple is required in RLrctgrprk for each LTD test trunk GROUP (incoming or outgoing) in the office.

TUPLE SEMANTICS:

RLrctgrprk attributes should be populated as shown in the following. Any attributes not specified should be populated with the default value.

```
portgrp.grpnum (KEY)  - Incoming or outgoing LTD trunk group
                        number.
portgrp.grptype (KEY) - TM_TRK.
rem                   - LTD test trunk group (specify incomeing
                        or outgoing).
servclass             - TM_TSTK.
module                - Zero.
digtree               - For incoming LTD group, use table
                        identifier for DAPRLDGT; for outgoing
                        LTD group, use zero.
```

Engineering rules for trunk group number for International Business Machines (IBM) Digit Analysis Selector (DAS)

The following is not enforceable by ODA and RC, but must be followed by the customer when entering trunk groups with RLrctgrprk.servclass equal FC_EIS_TRK which are attached to an IBM DAS.

Every trunk group attached to the same IBM DAS must have a trunk group number which produces a unique remainder when divided by eight. For example, one IBM DAS(R) could not be connected to trunk group numbers 33 and 65, because both have a remainder of one when divided by eight. It is recommended that trunk groups numbers be consecutive, with the first number being a multiple of

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eight. For example, 64, 65, 66, 67, 68, 69, 70, 71.

**Attribute:**
portgrp
**Fullname:**
Port group
**Attribute Description:**
Port group.

**Attribute:**
portgrp.grpnum
**Fullname:**
Group number
**Attribute Description:**
Trunk group number.

**Attribute:**
portgrp.grptype
**Fullname:**
Group type
**Attribute Description:**
Group type, use enumeration TM_TRK.

**Attribute:**
rem
**Fullname:**
Remarks
**Attribute Description:**
Character string for remarks.

**Attribute:**
servclass
**Fullname:**
Service class
**Attribute Description:**
Trunk class of service. The value inserted here must also be a valid 'servclass' used in FC_PORTTYP. If RLrt_trkg.in_sigtype or RLrt_trkg.out_sigtype equals DBCCIS6, DBTUP7, or DBISUP7, then 'servclass' must be FC_LTOLL_CONN, FC_TTOLL_CONN, FC_PRI_INTOLL, FC_SEC_INTOLL, FC_BV_INTOLL, FC_BV_TOLLCMP, FC_LATA_CONN (as declared in population rules for RLFC_PORTTYP).

If 'servclass' equals TM_TSTK: designates incoming and outgoing local test desk (LTD) test trunks used for metallic loop testing of lines. Applicable for U.S. and international. Refer to LTD population rules section.

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If 'servclass' equals OA_IFOPER, a tuple can exist in IST_PARM with RList_parm.tgn_d equal to RLrctgrprk.portgrp.grpnum (indicating an outgoing interflowed D-channel trunk group is in use) or RList_parm.tgn_b equal to RLrctgrprk.portgrp.grpnum (indicating an outgoing interflowed B-channel trunk group is in use).

Before deleting a tuple in RCTGRPRK (with servclass equal to OA_IFOPER), ensure a tuple does not exist in IST_PARM with that trunk group number.

If 'servclass' equals OA_IFTERM, a tuple can exist in OSPS_INT with RLosps_int.inc_dtrkg equal to RLrctgrprk.portgrp.grpnum (indicating an incoming interflowed D-channel trunk group is in use) or RLosps_int.inc_btrkg equal to RLrctgrprk.portgrp.grpnum (indicating an incoming interflowed B-channel trunk group is in use).

Before deleting a tuple in RCTGRPRK (with servclass equal to OA_IFTERM), ensure a tuple does not exist in OSPS_INT with that trunk group number.

If 'servclass' equals TMOGTC, TM_ROTL, TM_CALLBK, or TMDFTACLTP, a local digital interpreter table (LDIT) needs to be populated to every switching module (SM) where the logical test port (LTP) resides; that is for every SM where the LTP resides, the SM should be subscribed to an LDIT. The DAS associated with that LDIT is defined in RLRC_DAS. Note that RC and ODA do not support the previous check.

## Special Access Trunk Groups

Trunk groups that are assigned special access service classes of RLrctgrprk.servclass equal to FC_SPAWATS, FC_SPAMEG, FC_SPAB800 or FC_SPAM800, cannot be changed to a non-special access service class. The reverse is also true. Trunk groups that are assigned non-special access service classes cannot be changed to a special access service class. Growth and de-growth procedures must be followed. The following are the rules for changing class of service for trunk groups that are assigned special access service classes:

| From | ==> | To |
|---|---|---|
| FC_SPAWATS | ==> | FC_SPAMEG |
| FC_SPAMEG | ==> | FC_SPAWATS |
| FC_SPAB800 | ==> | FC_SPAM800 |
| FC_SPAM800 | ==> | FC_SPAB800 |

The following 'servclass', 'sigtype', and signal combinations are valid for special access:

| servclass | sigtype | signal |
|---|---|---|
| FC_SPAWATS | DBDP,DBMF, DBTT | FCWINK, FCIMMED, |

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| | | |
|---|---|---|
| | | FCDIALTONE |
| FC_SPAMEG | DBDP,DBMF, DBTT | FCWINK, FCIMMED, FCDIALTONE |
| FC_SPAB800 | DBDP,DBMF, DBTT | FCWINK, FCIMMED, FCDELAYDIAL |
| FC_SPAM800 | DBDP,DBMF, DBTT | FCWINK, FCIMMED, FCDELAYDIAL |

Special access trunks that are assigned a service class of FC_SPAWATS (special access wide area telephone service [WATS]) or FC_SPAMEG (MEGACOM(R) [special access]) must have the relations RLspabilldn, RLspabndscrn and RLspaenxx populated and distributed to the appropriate SMs where the trunks are located.

Special access trunks that are assigned a service class of FC_SPAB800 (special access basic 800) or FC_SPAM800 (MEGACOM(R) 800 [special access]) do not require that the relations RLspabilldn, RLspabndscrn and RLspaenxx be populated and distributed to the appropriate SMs where the trunks are located.

For more information about population and distribution of RLspabilldn, RLspabndscrn and RLspaenxx, refer to their respective poprules.

**Attribute:**

module

**Fullname:**

Module

**Attribute Description:**

The SM number where the packet switching trunks reside. Packet switching trunks have their 'servclass' set to PSPKT_TRK X.75/X.75'. For non packet switching trunks ('servclass' other than PSPKT_TRK X.75/X.75') the module should be set to zero.

For PSPKT_TRK, if module does not equal zero then all members of group must be on same SM and the module attribute is set equal to this SM number.

For X.75/X.75' trunks, module equal zero if the trunk group is split across non-remoted SMs. If an X.75/X.75' trunk group contains members on a remoted SM such as an ORM or RSM, then all members of the group must be on that remoted SM and the module attribute is set equal to this SM number.

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**Attribute:**
digtree
**Fullname:**
Digit tree
**Attribute Description:**
Digit analysis table identifier.

Range of value: 0-99.

Default value: No default. If 'servclass' is equal to OA_TAOPER, 'digtree' must be non-zero. If 'servclass' does not equal zero, verify existence of tuple in RLrc_das where RLrc_das.digtree equals 'digtree'.

When Glapsdn is set to DBYES (this is an action point (ACP) in the software defined network), then a 'digtree' of 88 is not allowed to be assigned to any trunk ('digtree' must not be 88). The reason for this is, at an ACP, there must be some trunks that have their 'sdnded' attribute set to DBYES. When a call arrives at an ACP using one of these trunks ('sdnded' equals DBYES), the reserved digtree of 88 will be used by call processing to enter digit analysis to determine if a query is to be sent to a remote database for routing instruction for the associated call. Only in the case where routing instruction from the remote database instructs the ACP to route the associated call via POTS domain, the original 'digtree' assigned to this trunk (does not equal 88) will be used.

RC/V Constraint/Crosscheck
---

A digit analysis table identifier can only be assigned to a member if (1) it is a valid DAS, and (2) if the DAS is currently assigned (that is, the LDIT for the DAS is populated) to the SM that owns the trunk group member. To determine if the DAS is assigned to the SM that owns the trunk member, check RLDB_AMGPD with grp_type equal to GPD_DA and grp_id equal to 'digtree'.

The attributes 'pcr_map1' through 'pcr_map7' represent a processor bit map. The bit position corresponding to the SM number that owns the port (that is, 'port.module') should be set to a '1'. If a DAS is not assigned to a SM, that DAS cannot be assigned to any trunk group member in that SM.

**Attribute:**
insep
**Fullname:**
Incoming separation class
**Attribute Description:**
Incoming/originating separations class. The insep attribute is used for division of revenue (U.S.) and for traffic dispersion (international). DMINSEP is 0-254. NULL value is zero. The 'insep' is based on trunk group.

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**Attribute:**
screen_x
**Fullname:**
Screen index
**Attribute Description:**
Should match the screen_x attribute in FC_TRUNK.

**Attribute:**
glare_action
**Fullname:**
Glare action
**Attribute Description:**
This parameter indicates the method to be used on a trunk group when dual seizure occurs. Possible values are:

ALLCTRL - All the trunks in this trunk group will have control over glare and the far end office will yield to glare condition.

NONECTRL - All the trunks in this trunk group will not have control in a glare situation and will yield to the trunks in the far end office.

ODDEVEN - All the trunks in this trunk group will use an algorithm to compute glare based on a numeric comparison of originating point code/destination point code (OPC/DPC) in the context of circuit identification code (CIC) being odd or even.

GLR_NULL- When the input field is left blank this attribute is populated with the enum NULL. The reverse relationship also applies. When glare_action is NULL this field on the screen is left blank.

See RLfc_trunk.glare for more information.

For packet switching trunk groups (IP, X.75 or X.75') the glare_action attribute is not used. Glare conditions on two-way packet switching trunks do not occur because of the assignment of logical channel numbers (up to 128 per trunk member). Both the near end and far end logical channel numbers are provisioned by the user and eliminate 'Glare' conditions from occurring. This attribute should always be populated as ALLCTRL for these three trunk group types for consistency and to conform with rules for other types of two-way trunk groups.

NOTE: For ISUP7 two-way trunks, check the capabilities of the far switch before setting this attribute to ALLCTRL or

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NONECTRL. The connecting office must be a 5E6(1) or later release or have equivalent glare capability before a value of ALLCTRL or NONECTRL can be chosen.

**Attribute:**
privacy
**Fullname:**
Private number
**Attribute Description:**
This attribute is used for equal access multi-frequency (EAMF), centralized automatic message accounting (CAMA), PRI, EDSL, and EDSL trunk for hotel/motel for Traffic Services Position System (TSPS) service (EDSLHM) trunk groups to indicate whether the directory number (DN) received is a private number or not. This attribute corresponds to, and should have the same value as, RLfc_trunk.privacy.

DBYES - Indicates a private number.
DBNO - Indicates not a private number.

Note: The determination of the type of trunk group, EAMF, CAMA, PRI, EDSL, or EDSLHM, is not RC enforceable but is a recommendation for ODA population of an office. For trunk group types other than those listed previously this attribute should be set to DBNO.

**Attribute:**
cpn_rstrct
**Fullname:**
Calling party number (CPN) restriction
**Attribute Description:**
This attribute is used to determine if the CPN parameter should be passed in an ISUP7 initial address message (IAM) to the next office. This attribute corresponds to, and should have the same value as, RLfc_trunk.cpn_rstrct.

DBNO - Indicates the parameter should be passed to the next office (not restricted).
DBYES - Indicates the parameter will not be passed to the next office and the CPN parameter will not be populated in the outgoing IAM message.

**Attribute:**
chg_rstrct
**Fullname:**
Charge number (CHG) restriction
**Attribute Description:**
This attribute is used to determine if the CHG parameter should be passed in an ISUP7 IAM to the next office. This attribute corresponds to, and should have the same value as

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RLfc_trunk.chg_rstrct.

DBNO - Indicates the parameter should be passed to the next office (not restricted).
DBYES - Indicates the parameter will not be passed to the next office and the CHG parameter will not be populated in the outgoing IAM message.

**Attribute:**
ln_virt_on
**Fullname:**
FTS2000 leased network virtual on-net trunk group
**Attribute Description:**
This attribute is used to indicate whether this is a FTS2000 leased network virtual on-net trunk group. This attribute corresponds to, and should have the same value as, RLfc_trunk.ln_virt_on.

DBYES - Indicates a FTS2000 leased network virtual on-net trunk group.
DBNO - Otherwise.

**Attribute:**
uuiic_rstrct
**Fullname:**
User-to-user information (UUI) parameter inter-exchange carrier (IXC) boundary restriction indicator.
**Attribute Description:**
UUI signaling transfer allows ISDN customers to exchange user data transparently through the network, in the UUI of an ISUP message, during call setup and call clearing.

The user to user information parameter IXC boundary restriction indicator is checked at network boundaries by the operational software to determine if the UUI parameter should be passed/accepted in an ISUP message to/from the far switch. (The UUI parameter may be included in any of the following ISUP messages: IAM, address complete message [ACM], answer message [ANM], call progress message [CPG], release message [REL].)

For LATA_CONN trunks:

DBNO: Indicates the UUI parameter should be accepted in forward messages or passed in backward messages by IXC switches at the access point.

Indicates that the UUI parameter should be passed in forward messages or accepted in backward messages by IXC switches at the egress point. (not restricted)

DBYES: Indicates the UUI parameter should not be accepted in forward messages or passed in backward messages by IXC switches at the

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access point.

Indicates that the UUI parameter should not be passed in forward messages or accepted in backward messages by IXC switches at the egress point. (restricted)

For IEC trunks:

DBNO: Indicates the UUI parameter should be accepted in backward messages by local exchange carrier (LEC) switches at the access point.

Indicates that the UUI parameter should be accepted in forward messages by LEC switches at the egress point. (not restricted)

DBYES: Indicates the UUI parameter should not be accepted in backward messages by LEC switches at the access point.

Indicates that the UUI parameter should not be accepted in forward messages by LEC switches at the egress point. (not restricted)

The following guidelines should be followed when populating the rctkgrprk.uuiic_rstrct attribute for ISUP trunks.

This attribute is used by the operational software only at network boundaries. Therefore, for trunks with service class of FCLATA_CONN or FC_IEC, this indicator should be optioned by the customer.

This attribute is ignored by the operational software for all other service class values.

This attribute corresponds to, and should have the same value as fc_trunk.uuiic_rstrct. For additional details, see the poprules for RLfc_trunk.

**Attribute:**

atpic_rstrct

**Fullname:**

Access transport parameter IXC boundary restriction indicator

**Attribute Description:**

Q.931 information element transfer facilitates the transport of specific Q.931 information elements in the ISUP access transport parameter (ATP) transparently between exchanges in the network.

The access transport parameter IXC boundary restriction indicator is checked at network boundaries by the operational software to determine if the ATP parameter should be passed/accepted in an ISUP message to/from the far switch. (The ATP parameter may be included in any of the following ISUP messages: IAM, ACM, ANM, CPG, REL.)

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For LATA_CONN trunks:

DBNO: Indicates the ATP parameter should be accepted in forward messages or passed in backward messages by IXC switches at the access point.

Indicates that the ATP parameter should be passed in forward messages or accepted in backward messages by IXC switches at the egress point. (not restricted)

DBYES: Indicates the ATP parameter should not be accepted in forward messages or passed in backward messages by IXC switches at the access point.

Indicates that the ATP parameter should not be passed in forward messages or accepted in backward messages by IXC switches at the egress point. (restricted)

For IEC trunks:

DBNO: Indicates the ATP parameter should be accepted in backward messages by LEC switches at the access point.

Indicates that the ATP parameter should be accepted in forward messages by LEC switches at the egress point. (not restricted)

DBYES: Indicates the ATP parameter should not be accepted in backward messages by LEC switches at the access point.

Indicates that the ATP parameter should not be accepted in forward messages by LEC switches at the egress point. (not restricted)

The following guidelines should be followed when populating the rctgrprk.atpic_rstrct attribute for ISUP trunks.

This attribute is used by the operational software only at network boundaries. Therefore, for trunks with service class of FCLATA_CONN or FC_IEC, this indicator should be optioned by the customer.

This attribute is ignored by the operational software for all other service class values.

This attribute corresponds to, and should have the same value as RLfc_trunk.atpic_rstrct. For additional details, see the poprules for RLfc_trunk.

**Attribute:**
cfn_rstrct
**Fullname:**
Confusion message (CFN) restriction indicator
**Attribute Description:**
In order to identify that unrecognized signaling information

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has been received at an exchange, a CFN may be sent in either the forward or backward direction to an adjacent switch.

The confusion message restriction indicator is used by the incoming operational software when an incoming message is not understood. This attribute is checked to determine whether a confusion message should be generated and sent to an adjacent office.

This attribute corresponds to, and should have the same value as RLrctgrprk.cfn_rstrct.

DBNO: Indicates that the message should be generated or sent to the adjunct office (not restricted).

DBYES: Indicates that the message should be generated or sent to the adjunct office (restricted).

(The default setting of this attribute is 'not restricted'.)

The following guidelines should be followed when populating the RLfc_trunk.cfn_rstrct indicator for ISUP trunks.

1. The CFN should be generated only at LEC switches. Therefore, this attribute should be optioned by the customer at LEC offices where ccs7_type equals Regional Bell Operating Company (RBOC).

2. The CFN should not be generated at AT&T toll offices. Therefore, this attribute does not apply at toll exchanges where ccs7_type equals TOLL. Also for CCS7 LATA_CONN trunks at an originating toll exchange where 'ccs7_type' equals RBOC, the value of this attribute does not apply.

For additional details, see the poprules for RLfc_trunk.

**Attribute:**

ccs7_typ

**Fullname:**

CCS7 protocol type

**Attribute Description:**

This attribute is used by call processing software to trigger network specific handling of certain ISUP7 messages and parameters. A value of DBTOLL indicates that routing information indicator (RII) and dialed directory number (DLDN) should be sent if known. It also means to handle the CPN parameter as billing number, provided that the network is operating in 'old' mode.

After toll network transition to 'new' mode the CPN parameter will contain calling party number. It also means to respond to the following events in call processing as has been specified by AT&T-NSD.

1. Send a facility (FAC) reject (REJ) message when certain events

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happen to the UUI parameter.
2. Send a second start dial message under certain circumstances respond to the side identification (SID) automatic number identification (ANI) increment message.
3. Process a CRANK BACK message.
4. Do not respond with a CFN message when an unknown message is received.

A value of DBRBOC means that ISUP7 messages and parameters are to be handled as specified by Telcordia Technologies. For example, the CPN and CHG parameters should be sent when known. Also, the originating line identity (OLI) parameter can be sent when known with a value showing the service ID of the call. It also means that the FAC REJ message is not sent when MA-UUI is dropped. RBOC network specific handling of parameters occurs when ccs7_typ is set to DBRBOC.

Generally, all trunk groups that are in a local exchange carrier environment are populated with a value of DBRBOC. Conversely, all trunk groups that are in the AT&T-NOG environment are populated with a value of DBTOLL except LATA_CONN trunks which have a value of DBRBOC.

**Attribute:**
rcd_3pt1_itc
**Fullname:**
Recode '3.1kHz audio' bearer capability
**Attribute Description:**
This attribute is used in the local network to determine if calls with a bearer capability (IAM.USI.tr_cap) of '3.1kHz audio' should have their bearer capability values recoded to 'speech'.

This attribute is ONLY applicable under the following conditions.

1. The bearer capability of the outgoing call is '3.1kHz audio',
2. This is a local tandem which received the call via an incoming inband signaling speech trunk or an originating end office, and
3. An outgoing ISUP trunk was selected.

All members of a trunk group must have the same value for rcd_3pt1_itc.

The following diagram provides the value for 'rcd_3pt1_itc' and the action that will be taken.

| Value: | Action: |
|---|---|
| DBNULLITC | No value has been defined, use the global office parameter Glrcd_3pt1 to determine the bearer capability value to be sent out. |

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```
   DBSPEECH     Recode IAM.USI.tr_cap to 'speech'
   DB3PT1KHZ    Send out the IAM.USI as is, (that is,
                '3.1kHz audio')
```

The rcd_3pt1_itc attribute should not be set to DB3PT1KHZ until the following are true:

1. The far switch has implemented the rule that the value of the USI parameter is either controlled by the trunk group parameter (if not set to DBNULLITC or the switch parameter).
2. The transmission facilities to the far switch are capable of handling calls with a bearer capability of '3.1kHz audio'.
3. The software at the far switch is capable of handling calls with a bearer capability of '3.1kHz audio'.

These three items listed previously cannot be checked by the software. It is therefore up to the user to make these checks manually before changing the field rcd_3pt1_itc to DB3PT1KHZ.

This attribute must have the same value as the rcd_3pt1_itc attribute defined in the RLrctgrprk tuple for the trunk group indicated in RLfc_trunk.tgroup.

**Attribute:**
tg_char
**Fullname:**
Trunk group characteristics
**Attribute Description:**
Portion of the common language identifier which represents the trunk group characteristics.

See the following 'fe_clli' for a description of when the field is required. Any non-blank, alphanumeric or dash character is valid. Default is a null value.

**Attribute:**
fe_clli
**Fullname:**
Common language ID
**Attribute Description:**
Portion of the common language identifier for the trunk group. This attribute represents the far end common language office code.

The remote network management center automatically queries the 5ESS(R)-2000 switch for this attribute and uses it to determine trunk group far-end locations in order to perform network traffic management activities. Therefore, it is important that this

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attribute be populated accurately for all trunk groups.

If RLrt_trkg.in_sigtype or RLrt_trkg.out_sigtype equals DBISUP7, then 'fe_clli' when populated, must be 11 characters (any non blank, alphanumeric or dash character is valid).

**Attribute:**
outpuls
**Fullname:**
Outpulsing
**Attribute Description:**
Indicates whether outpulsing is required.

**Attribute:**
audring
**Fullname:**
Audible ring
**Attribute Description:**
Indicates whether audible ring is applied.

**Attribute:**
annc_apl
**Fullname:**
Announcement application
**Attribute Description:**
This attribute identifies the application using the port, if the port is of the following lp_type in FC_PORTTYP:

PCRAFANN - for announcement ports
PCRAFDTA - for dial-through announcement ports
PCRAFCTR - for coin tone receiver

If the port is not one of the previously mentioned types, then this attribute should be set to SVCNO_ANNC indicating that no announcements have been assigned to this port.

If this attribute is set to SVC_DA, then 'servclass' must be FC_RAFANNC. If this attribute is set to SVC_ACCS, then 'servclass' must be FC_RAFDTA or FC_RAFCTR. If this attribute is set to SVC_COIN, then 'servclass' must be FC_RAFCTR. If this attribute is set to SVC_RAS, then 'servclass' must be FC_RAFDTA. If this attribute is set to SVC_ACSR, then 'servclass' must be FC_RAFDTA. If this attribute is set to SVC_PVN, then 'servclass' must be FC_RAFDTA. If this attribute is set to SVC_AOC, then 'servclass' must be FC_RAFANNC.

**Attribute:**
intsig
**Fullname:**

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Interoffice signaling
**Attribute Description:**
Interoffice signaling.

**Attribute:**
freetrm
**Fullname:**
Free termination
**Attribute Description:**
Indicates whether calls over this trunk are free no billing required.

**Attribute:**
cnrtninit
**Fullname:**
Initial coin return
**Attribute Description:**
Indicates whether coin calls over this trunk are allowed initial coin return.

**Attribute:**
cnrtnfnl
**Fullname:**
Final coin return
**Attribute Description:**
Indicates whether coin calls over this trunk are allowed final coin return.

**Attribute:**
tsps
**Fullname:**
Traffic service position system
**Attribute Description:**
TSPS traffic type.

**Attribute:**
tspsopr
**Fullname:**
Traffic service position system
**Attribute Description:**
Is this a TSPS operator trunk.

**Attribute:**
ringbck
**Fullname:**
Ringback
**Attribute Description:**

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Unused.

**Attribute:**
castmon
**Fullname:**
Castmon
**Attribute Description:**
Unused.

**Attribute:**
lowtndet
**Fullname:**
Low TN det
**Attribute Description:**
Unused.

**Attribute:**
antype
**Fullname:**
Announcement type
**Attribute Description:**
Indicates whether this is an announcement trunk group.

**Attribute:**
ancycl
**Fullname:**
Announcement cycles
**Attribute Description:**
Number of announcement cycles.

**Attribute:**
bargein
**Fullname:**
Barge in
**Attribute Description:**
Indicates whether barge in is allowed for announcement trunk group.

## 5. RCTGRPRK Population rules continued.

**Attribute:**
fcaudible
**Fullname:**
Audible ringing for announcement trunk group
**Attribute Description:**
Audible ringing for announcement trunk group.
For announcement trunks, this attribute should be the same value as that in RLfc_anoun.fc_audible, see check section of attribute ancycl.

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**Attribute:**
vcdata
**Fullname:**
Validity check data
**Attribute Description:**
This attribute must have the same value (data) as the trunk groups members entries in RLfccavctk (attribute vcdata). The internal data rules must be the same as 'vcdata' structure in RLfccavctk.

```
OFFCNT = 0 - 7 (number of NXXs: 0 means 8 NXXs)
NPA
NXX, NXX, NXX, NXX, NXX, NXX, NXX, NXX
```

The vcdata attribute can only be allowed on trunk groups with a service class of FC_CA_ONI or FC_CA_ANI.

**Attribute:**
vcdata.offcnt
**Fullname:**
Office code
**Attribute Description:**
Office code.

**Attribute:**
vcdata.orignpa
**Fullname:**
Originator numbering plan area (NPA)
**Attribute Description:**
Originator NPA.

**Attribute:**
vcdata.offcode
**Fullname:**
Office code
**Attribute Description:**
Office code.

**Attribute:**
dircon_dn
**Fullname:**
Direct connection directory number
**Attribute Description:**
Direct connection directory number.

**Attribute:**
dircon_dn.digcnt

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**Fullname:**
Digit count
**Attribute Description:**
Digit count.

**Attribute:**
dircon_dn.dn
**Fullname:**
Directory number
**Attribute Description:**
Directory number.

**Attribute:**
carrid
**Fullname:**
Carrier identifier
**Attribute Description:**
Indicates the carrier identifier. It is a four character string, where each of the characters can be '0' through '9'.

- The default is the NULL string and is defined by "\0".

- Must match attribute CARRID in IMTGRPS.

- The carrid attribute must be specified when servclass is FC_IEC.

- The carrid attribute may be specified when servclass is FC_TSPS. This is allowed for the TAISP special feature.

- The carrid attribute may be specified when servclass is TM_CALLBK, TMDFTACLTP, or TM_ROTL. If the carrier ID is specified for these servclasses, then the BILLINGDN attribute must also be filled in. This information is used to provide ANI information on certain types of inter-LATA TM test calls and inter-LATA Operating System (OS) callback, security callback, and connection appraisal calls. This includes itrunk and line work station (TLWS), centralized trunk test unit (CTTU), integrated mechanized loop testing (IMLT), IMLT main distributing frame (MDF), and remote office test line (ROTL).

  If GLospsta is set to yes, then the 'carrid' can be specified on trunks that handle incoming inward traffic. Trunks with servclasses of FC_TTOL_CONN, FC_PRI_INTOLL, FC_SEC_INTOLL, and FC_LTOLL_CONN can handle incoming inward traffic.

- The carrid attribute may be specified when servclass is FC_LATA_CONN, for toll digital exchange (TDX) trunks.

**Attribute:**
featgrp

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**Fullname:**
Feature group carrier type
**Attribute Description:**
Flags carrier ID as feature group B (FGB_CARR) or feature group D (FGD_CARR). Set the attribute to FGB_CARR,FGD_CARR or FG_NULL.

**Attribute:**
fgdcicsz
**Fullname:**
FGD carrier identification code size
**Attribute Description:**
The purpose of this field is to indicate the allowed CIC size for access via tandem (AVT) and international carrier (INC) call types on incoming or two way trunks. These call types are only possible on FC_TTOLL_CONN, FC_LTOLL_CONN, and FC_LATA_CONN service class trunks. The default value is FGDCIC3 which is always used for trunks which don't support AVT and INC call types.

**Attribute:**
free_ans
**Fullname:**
Free answer
**Attribute Description:**
Indicates whether answer supervision will be returned on the trunk group for calls to a free line. It must be set to DBYES for trunk groups directly connected to a carrier, and for trunk groups which handle carrier traffic and serve offices with free line service. Must match attribute free_ans in IMTGRPS.

**Attribute:**
brc
**Fullname:**
Business and residential customer service (BRCS) assigned
**Attribute Description:**
Indicates whether business and residential customer service (BRCS) features will automatically be assigned to each trunk group member as that member is inserted. BRCS features do not apply to CCS trunks. For CCS trunks, that is, DBCCIS6 or DBTUP7 this field will be set to DBNO.

For trunk groups with RLrt_trkg.in_sigtype or RLrt_trkg.out_sigtype equal to DBISUP7, if RLrctgrprk.servclass is not equal to FC_LTOLL_CONN, then this field will be set to DBNO.

For remote digital test access trunk groups brc must be DBNO.

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**Attribute:**
mkbusykey
**Fullname:**
Make busy key (MBK)
**Attribute Description:**
Indicates the make busy key associated with this trunk group.

**Attribute:**
cut_thru
**Fullname:**
Cut through
**Attribute Description:**
This attribute will be used to populate the relation FC_TRUNK attribute cut_thru. This attribute must be the same for all members of the same group.

**Attribute:**
billingdn
**Fullname:**
Billing directory number
**Attribute Description:**
This attribute will be used to populate the relation PF_TKDN attribute dn. This attribute must be the same for all members of the same group.

This attribute will allow the digit string 11X-XXX-XXXX. The '1' in the first position will be used to designate that this billing number is being used in a private leased network. Form checks should not require that a valid NPA be the first three digits of a ten digit string.

For EDSL trunk groups (trunk groups with trunks that have 'servclass' equal to FCEDSL or FCEDSLHM, and lp_type equal to PCTBCHAN in RLfc_porttyp), this attribute contains the same billing DN information as RLedsltrkg.bill_dn (in different format since domains are different).

Only special access trunk groups that have a class of service equal to FC_SPAWATS for special access WATS and FC_SPAMEG for MEGACOM(R) will require a billing DN. The billing DN for special access WATS and MEGACOM(R) trunk groups will not be stored in this relation, but will be stored in the RLspabilldn relation (dn_bill attribute). The length of the billing DN must be ten. The billing DN may also be stored in RLrctgrprk.billingdn, but it will not be used by any special access code. Only the billing DN in RLspabilldn.dn_bill will be used by special access call processing and AMA billing code.

When the 'servclass' is any of TM_CALLBK, TM_ROTL, or TMDFTACLTP,

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this attribute is not used to populate the relation PF_TKDN. In these cases, this attribute provides a billing directory number for certain TLWS and OS test and callback calls. For these 'servclasses': This attribute must be populated when the CARRID attribute is populated and this attribute must be NULL when CARRID is NULL.

When the rdta_grp attribute is DBYES this attribute must be null if the trunk group is outgoing. If the trunk group is two-way the attribute must have 7-15 digits.

**Attribute:**
billingdn.digcnt
**Fullname:**
dig count
**Attribute Description:**
Digit count.

**Attribute:**
billingdn.dn
**Fullname:**
Directory number
**Attribute Description:**
Directory number.

**Attribute:**
inc_tndwnk
**Fullname:**
International carrier tandem wink
**Attribute Description:**
Indicates whether the first wink received from the INC carrier at an access tandem will be relayed to the end office.

**Attribute:**
trk_qry
**Fullname:**
Trunk query
**Attribute Description:**
Indicates whether trunk query interoffice audit should be run on this trunk group. DBYES is valid only if RLrt_trkg.in_sigtype equals DBCCIS6 or DBISUP7, or RLrt_trkg.out_sigtype equals DBCCIS6 or DBISUP7. This is an updatable attribute for CCS trunks.

**Attribute:**
xlt_tst
**Fullname:**
Translation test

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**Attribute Description:**

Indicates whether translation test interoffice audit should be run on this trunk group. DBYES is valid only if RLrt_trkg.in_sigtype equals DBCCIS6 or DBISUP7, or RLrt_trkg.out_sigtype equals DBCCIS6 or DBISUP7. This is an updatable attribute for CCS trunk.

**Attribute:**

ne_clli

**Fullname:**

Near-end common language location identifier

**Attribute Description:**

Near-end common language location identifier associated with this trunk group. Default: null value. Any non blank, alphanumeric character or dash is valid. There is no requirement that the characters be divided into subfields.

Must be populated with non-blanks if xlt_tst equals DBYES or if out_sigtype or in_sigtype equals DBCCIS6. Non-blanks are valid only for U.S. offices. For CCIS6 trunks, 'ne_clli' is not updatable.

If RLrt_trkg.in_sigtype or RLrt_trkg.out_sigtype equals DBISUP7, then 'ne_clli' when populated, must be 11 characters (any non blank, alphanumeric or dash character is valid).

**Attribute:**

vpa_type

**Fullname:**

Voice path assurance (VPA) type

**Attribute Description:**

This attribute controls the way the software runs the voice path assurance test for CCS trunks.

The default value for VPA TYPE on the recent change screen is zero. The default value for VPA TYPE on the ODA form is NOVPA.

For all non-CCS trunks, 'vpa_type' should be populated as CCNONCCS.

The following diagram is a guide for populating VPA TYPE on the RC screen or the ODA form. The appropriate value to choose depends on the near office type and the far office type to determine tone frequencies to be used in running the vpa test. In addition, it involves consideration for the type of facility used and the planned inserted connection loss (ICL) loss value for that facility. This information is used to control the VPA receiver operate and release levels. The loss on the trunk affects the power level of the tone that is detected by the VPA receiver. Note that the last character of the symbol put on the recent change screen is the hardware loss threshold level. See the following digram for the meaning of each hardware loss threshold level.

near end*** far end trunk trunk CCS

| office type | office type | facility | ICL | VPA TYPE |
|---|---|---|---|---|
| 4 wire | 4 wire | 4 wire | 0 dB | 4W4WL0 |
| 4 wire | 4 wire | 4 wire | 0.1 - 0.8 dB | 4W4WL1 |
| 4 wire | 4 wire | 4 wire | 0.9 - 1.7 dB | 4W4WL2 |
| 4 wire | 4 wire | 4 wire | 1.8 - 2.9 dB | 4W4WL3 |
| 4 wire | 2 wire | 2 wire | 0.0 - 4.0 dB | 4W2WL3 |
| 4 wire | 2 wire | 2 wire | 4.1 - 5.5 dB | 4W2WL4 |
| 4 wire | 2 wire | 2 wire | 4.1 - 5.5 dB HI LOSS | 4W2WL5 |
| 2 wire | 4 wire | 4 wire | 0 dB | 2W4WL0 |
| 2 wire | 4 wire | 4 wire | 0.1 - 0.8 dB | 2W4WL1 |
| 2 wire | 4 wire | 4 wire | 0.9 - 1.7 dB | 2W4WL2 |
| 2 wire | 4 wire | 4 wire | 1.8 - 2.9 dB | 2W4WL3 |
| 2 wire | 2 wire | 2 wire | 0.0 - 4.0 dB | 2W2WL3 |
| 2 wire | 2 wire | 2 wire | 4.1 - 5.5 dB | 2W2WL4 |
| 2 wire | 2 wire | 2 wire | 4.1 - 5.5 dB HI LOSS | 2W2WL5 |

*** Used for frequency specifications only. The
5ESS(R)-2000 switch is always a four wire switch
with respect to its transmission characteristics.

| hdwe level | Operate threshold* | Release threshold** |
|---|---|---|
| 0 | -20 dBm +-2dBm | -27 dBm |
| 1 | -21.5 dBm +-2dBm | -28.5 dBm |
| 2 | -23.2 dBm +-2dBm | -30.2 dBm |
| 3 | -25.6 dBm +-2dBm | -32.6 dBm |
| 4 | -27 dBm +-2dBm | -34 dBm |
| 5 | -31 dBm +-2dBm | -38 dBm |

* tone is detected if power level is >= value shown.
** tone stops being detected (released) if power level
is greater than or equal to the value shown.

For four wire continuity check (four wire switch at each end and
four wire facility between switches)

Bell System

| Inserted Connection Loss | Operate Range | Release Range |
|---|---|---|
| 0 dB | -18 <= N <= -6 + n dBm | N <= -27 + n dBm |
| .1 - .8 dB | -19.5 <= N <= -7.5 + n dBm | N <= -28.5 + n dBm |
| .9 - 1.7 dB | -21.2 <= N <= -9.2 + n dBm | N <= -30.2 + n dBm |
| 1.8 - 2.9 dB | -23.6 <= N <= -11.6 + n dBm | N <= -32.6 + n dBm |

For two wire continuity check (two wire switch at one or both ends
no dependence on type of facility)

Bell System

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| Inserted Connection Loss | Operate Range | Release Range |
|---|---|---|
| 0 - 4.0 dB | -23 <= N <= -11 dBm | N<=-32 |
| 4.1 - 5.5 dB | -25 <= N <= -13 dBm | N<=-34 |
| 4.1 - 5.5 dB HI LOSS | -29 <= N <= -17 dBm | N<=-38 |
| 4.1 - 8.6 dB 2 wire | -27.6 <= N <= -15.6 dBm | N<=-36.6 |
| 4.1 - 8.6 dB 2 wire HI LOSS | -29 <= N <= -17 dBm | N<=-38 |

'N' is the absolute power level of the check tone and 'n' is the relative power at the input of the receiver with respect to the zero transmission level point.

| vpa_type altval | vpa_type enum | orig test | freq sent | freq receive | hdwe level |
|---|---|---|---|---|---|
| NONCCS | CCNONCCS | n/a | n/a | n/a | n/a |
| 4W4WL0 | CC4WICL0 | Y | 2010 | 2010 | 0 |
| 4W4WL0 | CC4WICL0 | N | 2010 | 2010 | 0 |
| 4W4WL1 | CC4WICL1 | Y | 2010 | 2010 | 1 |
| 4W4WL1 | CC4WICL1 | N | 2010 | 2010 | 1 |
| 4W4WL2 | CC4WICL2 | Y | 2010 | 2010 | 2 |
| 4W4WL2 | CC4WICL2 | N | 2010 | 2010 | 2 |
| 4W4WL3 | CC4WICL3 | Y | 2010 | 2010 | 3 |
| 4W4WL3 | CC4WICL3 | N | 2010 | 2010 | 3 |
| 4W2WL3 | CC2WICL4 | Y | 1780 | 2010 | 3 |
| 4W2WL3 | CC2WICL4 | N | 1780 | 2010 | 3 |
| 4W2WL4 | CC2WICL5 | Y | 1780 | 2010 | 4 |
| 4W2WL4 | CC2WICL5 | N | 1780 | 2010 | 4 |
| 4W2WL5 | CC4W2WL6 | Y | 1780 | 2010 | 5 |
| 4W2WL5 | CC4W2WL6 | N | 1780 | 2010 | 5 |
| 2W4WL0 | CC2W4WL0 | Y | 2010 | 1780 | 0 |
| 2W4WL0 | CC2W4WL0 | N | 2010 | 1780 | 0 |
| 2W4WL1 | CC2W4WL1 | Y | 2010 | 1780 | 1 |
| 2W4WL1 | CC2W4WL1 | N | 2010 | 1780 | 1 |
| 2W4WL2 | CC2W4WL2 | Y | 2010 | 1780 | 2 |
| 2W4WL2 | CC2W4WL2 | N | 2010 | 1780 | 2 |
| 2W4WL3 | CC2W4WL3 | Y | 2010 | 1780 | 3 |
| 2W4WL3 | CC2W4WL3 | N | 2010 | 1780 | 3 |
| 2W2WL3 | CC2W2WL3 | Y | 2010 | 1780 | 3 |
| 2W2WL3 | CC2W2WL3 | N | 1780 | 2010 | 3 |

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```
2W2WL4      CC2W2WL4        Y       2010    1780    4
2W2WL4      CC2W2WL4        N       1780    2010    4

2W2WL5      CC2W2WL5        Y       2010    1780    5
2W2WL5      CC2W2WL5        N       1780    2010    5
```

ICL is the 1004 HZ transducer loss of the trunk referenced to the nominal impedance of the offices (600 or 900 ohms) which the trunk interconnects. It reflects all of the gains or loses from the originating outgoing switch appearance through the trunk to the outgoing appearance of the terminating switch with the trunk terminated in the nominal office impedance.

**Attribute:**

datarate

**Fullname:**

Data rate

**Attribute Description:**

This attribute holds the value to be stored in the RLFC_TRUNK.datarate for members of this trunk group. It is used to identify the data rate that this trunk is capable to handle for an inter switch ISDN data call. Data trunks are interoffice digital trunks designated to transmit data to/from an ISDN customer premise equipment (CPE) at 56kb/s, restricted 64kb/s or 64kb/s.

For EDSL D trunks (servclass equals FCEDSL and lp_type equals PCTDCHAN in RLfc_porttyp), 'type' attribute of the RLfc_trunk relation must be RTISDNLK for all trunks in the group. Datarate of DBDATA_NULL is not valid for EDSL D trunk groups.

For OSPS EDSL D trunks (servclass equals OA_IFOPER or OA_IFTERM and lp_type equals PCTDCHAN in RLfc_porttyp), 'type' attribute of the RLfc_trunk relation must be RTISDNLK for all trunks in the group. Datarate of DBDATA_NULL is not valid for OSPS EDSL D trunk groups.

For packet switching IP trunks with 'servclass' equal to PSPKT_TRK ( = PACKET ), the datarate should be set to DBDATA_NULL. For multiple internal protocol (IP) trunk groups, datarate could be DBDATA_56K or DBDATA_64K. RC/V will internally shift to PSDSL56KB or PSDSL64KB for RLdslequip.dslrate.

For X.75' or X.75 packet switching trunk groups set datarate only to DBDATA_56K.

Range of values:

```
DBDATA_NULL   - for voice trunk.
DBDATA_56K    - for any trunk (segregated or not) able to
                carry 56 kb/s data calls.
DBDATA_R64K   - for any trunk (segregated or not) able
```

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to carry restricted 64 kb/s data calls.
DBDATA_64K - for any trunk (segregated or not) able to carry 64 kb/s data calls.

Dependencies: When 'datarate' is not DBDATA_NULL then 'servclass' for this trunk group, defined in RLfc_porttyp, can be FC_LTOLL_CONN, FC_TTOLL_CONN, FC_PRI_INTOLL, FCEDSL, FCEDSLHM, OA_IFOPER, OA_IFTERM, FC_SEC_INTOLL, FC_IEC, FC_LATA_CONN, FC_PF, FC_PFITT or FC_PFLASH.

Trunk groups with all other 'servclass' values must have datarate equal to DBDATA_NULL.

Also when datarate is not DBDATA_NULL the 'type' attribute of the RLfc_trunk relation must be RTINCOM, RTOUTGO, or RTTWOWAY for all trunks in the trunk group.

If the trunk has a 'servclass' of FC_PF, FC_PFITT or FC_PFLASH and the signaling is not ISUP7, the 'datarate' must be DBDATA_56K or DBDATA_NULL.

**Attribute:**
npsn
**Fullname:**
Next packet switch number
**Attribute Description:**
Contains the packet switch number of a packet switch that has a direct IP trunk group connection with the present switch.

**Attribute:**
lnpsnid
**Fullname:**
lpsnid
**Attribute Description:**
Unused.

**Attribute:**
sdnded
**Fullname:**
SDN assigned
**Attribute Description:**
Indicates if the trunk is assigned to SDN service access (DBYES) or not (DBNO). Only the ACP offices will be allowed to have these trunks. BRCS features are not allowed for this attribute. RLrctgrprk.brcs will be set to 'no'. This attribute also appears in RLfc_trunk.sdnded. If 'sdnded' is DBYES, then Glapsdn must be DBYES which indicates this switch is an action point in the software defined network.

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**Attribute:**
sgd
**Fullname:**
Station group designer
**Attribute Description:**
Station group designator (SGD) is a digit at the end of a dialed digit string indicating the group to which a station belongs. This attribute indicates if a SGD is expected to be forwarded from the originating private branch exchange (PBX) to the ACP in the SDN.

This attribute may be set to DBYES only if this trunk is a SDN direct access trunk from a PBX to an ACP. This attribute also appears in RLfc_trunk.sgd.

**Attribute:**
unres_ea
**Fullname:**
Unrestricted equal access
**Attribute Description:**
This attribute allows trunks to originate PVN calls using equal access signaling.

**Attribute:**
pvnterm
**Fullname:**
PVN terminating indicator
**Attribute Description:**
This attribute allows all calls originating on the trunk to be marked as ASP terminal group originators. This allows termination to terminal groups with ASPF and ASPS restriction types.

**Attribute:**
retry
**Fullname:**
Allow retry on failure
**Attribute Description:**
This attribute is used to determine whether additional attempts to connect to announcement should occur if the first attempt fails (such as because 'maxcalls' limit has been reached). This attribute corresponds to, and should have the same value as, RLfc_anounce.retry.

DBNO - Indicates that no retry should be attempted.
DBYES - Indicates that a retry is desired.

This attribute is used by mapping code to store the value of the view buffer's 'retry' attribute for a trunk group. In the event of updates, inserts, etc., the value of 'retry' in this

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relation will be used to update the 'retry' attribute in the RLfc_anounce relation, as opposed to copying the value from the view buffer.

**Attribute:**
lsdel_ans
**Fullname:**
OSPS listing services delay answer supervision
**Attribute Description:**
This attribute is used by OSPS on listing services calls to determine when answer supervision should be relayed to the originating office. When set to DBYES, answer supervision is relayed upon receipt of a billing indicator from an external vendor system. When set to its default value DBNO, answer supervision is relayed upon operator position seizure.

DBYES - answer supervision after external vendor stimulus.
DBNO - answer supervision after operator position seizure.

**Attribute:**
ln_type
**Fullname:**
Leased network (LN) type
**Attribute Description:**
Attribute which marks the trunk as one of the following:

LN_NULL - Trunks are not leased network.
LN_QRY - Leased network call with query to database.
LN_NOQRY - Leased network with no query to database.
LN_IMT - Leased network intermachine trunks.

**Attribute:**
netgrp
**Fullname:**
Leased network group name
**Attribute Description:**
Leased network group name used to define a grouping of automatic route selection (ARS) groups which share a trunk group, in particular, a leased network CCS7 intermachine trunk group.

**Attribute:**
e911type
**Fullname:**
Enhanced 911 type
**Attribute Description:**
The e911type attribute specifies the type of trunk to which enhanced 911 calls are being routed over.

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**Attribute:**
esco
**Fullname:**
Emergency service central office number (ESCO)
**Attribute Description:**
The ESCO number identifies the originating office of an E911 caller. It is used in call processing to retrieve an emergency service number (ESN) which is used for call routing and call transfer.

**Attribute:**
rdta_grp
**Fullname:**
Remote digital test access trunk group
**Attribute Description:**
This attribute is used to identify the trunk group as a remote digital test access trunk group. See the previously general section rules for tuple semantics and RLdn_rdta for more information regarding the RDTA capability. When this attribute is DBYES the trunk group must be an EDSL PRI trunk group and all of its assigned members must be used only for RDTA monitor sessions. If a trunk member has been assigned a RDTA TN and has a tuple populated in RLdn_rdta then there must be a corresponding RLfc_trunk tuple with the rdta_port attribute equal DBYES. There may not be any route indexes populated in RLrt_routing or RLrt_mcrt that point to a trunk group with this attribute equal DBYES and lport equal 0. The trunk will appear as an EDSL trunk with the previously noted exceptions.

**Attribute:**
ani6
**Fullname:**
Automatic number identification 6
**Attribute Description:**
This attribute indicates to the operator system that the call may require special screening. Traditionally used for HOTEL/MOTEL type services.

If RLrctgrprk.ani6 is DBYES, then RLrctgrprk.ani7 must be set to DBNO.
For trunks with servclasses of FC_PF, FC_PFLASH or FC_PFITT and type of RTTWOWAY or RTINCOM RLrctgrprk.ani6 may be set to DBYES or DBNO as specified by the customer.
All other servclass values must set RLfc_trunk.ani6 to DBNO.
The ani6 bit may not be DBYES on data trunks.
RLrctgrprk.ani6 corresponds to
and should have the same value as RLfc_trunk.ani6.
For all members of a given trunk group, the ani6 bit should be set to the same value.

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RLrctgrprk.ani6 will be defaulted to DBNO.

**Attribute:**
ani7
**Fullname:**
Automatic number identification 7
**Attribute Description:**
This attribute indicates to the operator system
that the call may require special screening.
Traditionally used for coin call type services.

If RLrctgrprk.ani7 is DBYES, then RLrctgrprk.ani6
must be set to DBNO.
For trunks with servclasses of FC_PF, FC_PFLASH or
FC_PFITT and type of RTTWOWAY or RTINCOM RLrctgrprk.ani7
may be set to DBYES or DBNO as specified by the customer.
All other servclass values must set RLfc_trunk.ani7 to DBNO.
The ani7 bit may not be DBYES on data trunks.
RLrctgrprk.ani7 corresponds to
and should have the same value as RLfc_trunk.ani7.
For all members of a given trunk group, the ani7 bit
should be set to the same value.

RLrctgrprk.ani7 will be defaulted to DBNO.

**Attribute:**
ani_type
**Fullname:**
Automatic number identification type
**Attribute Description:**
Used to differentiate between various direct access and
switched access ANIs for outbound services. A value of
zero indicates that the outbound services ANI table
(RLldpindx/RLanidx[XXX]) will not be accessed for call
processing data.

**Attribute:**
asi_use
**Fullname:**
Advanced service interface use
**Attribute Description:**
Indicates that trunk may be used for advanced service interface.

**Attribute:**
trignum
**Fullname:**
Trigger number
**Attribute Description:**
Trigger number for network services applications for shared

interoffice trunks.

**Attribute:**
fac_num
**Fullname:**
Facility number
**Attribute Description:**
The fac_num field indicates the facility number of the originating foreign exchange (FX) or tie trunk.

**Attribute:**
std_fxtie
**Fullname:**
Standard FX or tie trunk
**Attribute Description:**
Identifies if this is a FX or tie trunk.

**Attribute:**
cont_test
**Fullname:**
Continuity test indicator
**Attribute Description:**
For Autoplex(R) series immediate call setup (ICS) trunks, indicates whether or not continuity test should be run.

**Attribute:**
spbool1
**Fullname:**
Spare boolean 1
**Attribute Description:**
Reserved for future use.

**Attribute:**
spbool2
**Fullname:**
Spare boolean 2
**Attribute Description:**
Reserved for future use.

**Attribute:**
mltislcopt
**Fullname:**
Signaling option between MLT and integrated subscriber loop carrier (ISLC)
**Attribute Description:**
Used by improved digital loop carrier (DLC) operational status indications special feature. The 'mltislcopt' field will be

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used to indicate whether enhanced MLT signaling is provided (DBYES) or the conventional signaling is provided (DBNO).

**Attribute:**
mai
**Fullname:**
Mode of access indicator
**Attribute Description:**
The mode of access field identifies an Access Provider Identifier (API) code for an incoming FGD trunk to an OSPS.

**Attribute:**
apicode
**Fullname:**
Access provider identifier code
**Attribute Description:**
Used by OSPS Feature Group D Incoming Signaling for Special Applications - Release 2 feature. The apicode field will be used to indicate whether the mode of access if "direct" or "switched". Default is "switched".

**Attribute:**
utt
**Fullname:**
Utility Telemetry Trunk Indicator.
**Attribute Description:**
This boolean is used for the Suppressed Ringing Special Feature. This attribute is used to mark a trunk group as a Utility Telemetry Trunk Group.

**Attribute:**
asptoll
**Fullname:**
Advanced Services Platform Toll Indicator
**Attribute Description:**
The asptoll field indicates if all calls over this trunk group will generate an SCP query. When this field is set to DBYES all incoming calls will generate a query to the SCP The query will contain the ANI and dialed number. The SCP will send back a reply with either the carrier or trunk group that should be used for routing. The 5E will also make an AMA record based on the SCP reply message.

**Attribute:**
asp_carrtrig
**Fullname:**
ASP Carrier Trigger detection
**Attribute Description:**

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This attribute, if set to YES, indicates that if the carrier identified to use on this call has a trigger number provisioned, an ASP INFO_COLLECTED query to the SCP will be generated.

**Attribute:**
far_e911
**Fullname:**
Far E911 indicator
**Attribute Description:**
The far_e911 attribute indicates if the Digital Cellular Switch (DCS) trunk group is dedicated to E911 traffic at the far end. A value of DBYES indicates that the far end of the DCS trunk group is designated as being dedicated for E911 traffic. A value of DBNO indicates that the trunk group is not a DCS trunk or the far end of a DCS trunk group is not designated as being dedicated for E911 traffic.

**Attribute:**
ffcf1
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description.

**Attribute:**
ffcf2
**Fullname:**
DSL Inverted
**Attribute Description:**
Used by the Packet Pipe Enhancement Feature to indicate if this packet pipe uses inverted data, on a trunk group basis. This data is sent to the PH4 on initialization of packet pipes.

**Attribute:**
ffcf3
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
This attribute is a spare

**Attribute:**
ffcf4
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

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**Attribute:**
ffcf5
**Fullname:**
ICOS trunk group detection
**Attribute Description:**
This attribute if set to 1, indicates a ICOS trunk group for servclass FCAPXIDCS. A corresponding spare bit, ffcf7, in relation fc_trunk must be set to DBYES when this bit is set to 1.

This spare attribute will be used in generic 5E11 and 5E12. In 5E13, this attribute will be replaced with new attribute called icos_trkg. The attribute ffcf5 will be released for use as a spare attribute.

**Attribute:**
ffcf6
**Fullname:**
Reserved for future field feature.
**Attribute Description:**
Reserved for future field feature.

**Attribute:**
tdx_trk
**Fullname:**
Toll Digital Exchange Trunk
**Attribute Description:**
This attribute is used to indicate that the trunk is part of the Toll Digital Exchange (TDX) network. Only trunks having a service class of FC_LATA_CONN, FC_TTOLL_CONN, and FC_IEC may be part of this network. The TDX network can be used when feature SFID165 has been purchased.

This attribute exists in both the RLfc_trunk and RLrctgrprk relations. Corresponding tuples should have the same value for this attribute.

**Attribute:**
term_bill
**Fullname:**
Terminating Billing Indicator
**Attribute Description:**
This attribute indicates whether a call that egresses a Toll Digital Exchange (TDX) network should have an associated AMA billing record produced at the terminating TDX office. This attribute only applies to TDX trunks.

This attribute exists in both the RLfc_trunk and RLrctgrprk relations. Corresponding tuples should have the same value for this attribute.

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**Attribute:**
ani_proc
**Fullname:**
TDX Automatic Numbering Identification (ANI) Table Processing indicator
**Attribute Description:**
This attribute indicates whether a call on a Toll Digital Exchange (TDX) trunk may have ANI Table Processing. TDX ANI Table Processing is a secured feature numbered SFID235. Both SFID165 and SFID235 must be active before the ani_proc attribute may be set to DBYES. Valid combinations of the TDX and ANI secured features are represented in the following diagram.

| SFID165 TDX | SFID235 ANI | Comments |
|---|---|---|
| Y | N | TDX Basic Call Processing (CP) only |
| Y | Y | TDX Basic CP and ANI Table Processing |
| N | N | neither feature |
| N | Y | invalid setting (if this condition is found during a retrofit, then SFID235 should be turned off and all the ani_proc attributes should be reset to N) |

In addition, this TDX ANI table processing indicator may only be set on trunks having an FC_LATA_CONN servclass.

This attribute exists in both the RLfc_trunk and RLrctgrprk relations. Corresponding tuples should have the same value for this attribute.

## 6. RCTGRPRK Population rules continued.

**Attribute:**
isupmld
**Fullname:**
ISUP Message Loop Detection
**Attribute Description:**
ISUP message loop detection attribute. This attribute can only be set for SS7 trunk on per trunk group basis, which have RLrt_trkg.out_sigtype equal to DBISUP7.

If SFID163 is ON, then
if isupmld == Y then
hop count value is decremented by one as the call is sent on to the next switch.
if isupmld == N then
hop count value, if received, is passed on unchanged.

**Attribute:**
maxhopcnt

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**Fullname:**
Maximum Hop Counter Value
**Attribute Description:**
Maximum Hop Counter value, assignable on a per SS7 trunk group basis. Max Hop Counter value specifies the maximum number of contiguous SS7 inter-exchange circuits that are allowed per ISUP call. The initial value must be greater than the maximum number of exchanges that would normally be used to complete the call. The range for hop counter value is from 0 to 20. 0 should only be used for non-ISUP trunk groups.

**Attribute:**
lrn_das
**Fullname:**
Location routing number digit analysis tree selector
**Attribute Description:**
This attribute contains the digit analysis tree selector to be used for analyzing a location routing number (LRN) that has been received in an IAM message associated with an ISUP trunk origination.

This attribute exists in both the RLfc_trunk and RLrctgrprk relations. Corresponding tuples should have the same value for this attribute.

**Attribute:**
mlppstage
**Fullname:**
Multi-Level Precedence and Preemption stage
**Attribute Description:**
Multi-Level Precedence and Preemption protocol stage on SS7 trunk group. STAGE1 protocol sends/receives PP Level in Calling Party Category. STAGE2 protocol sends/receives PP Level in MLPP Precedence Parameter. Only SS7 trunks having service class of FC_LTOLL_CONN, FC_TTOLL_CONN, or FC_PRI_INTOLL along with a PP trunk hunt-type may have this attribute set to either CCSPPST1 or CCSPPST2.

This attribute exists in both the RLfc_trunk and RLrctgrprk relations. Corresponding tuples should have the same value for this attribute.

**Attribute:**
ported
**Fullname:**
ported indicator
**Attribute Description:**
This attribute indicates if the line associated with this tuple is individually ported by the Number Portability feature. However, if the line is in either a Multiline Hunt Group (MLHG) or a Terminal Group (TG), then the group ported indicator

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takes precedence over the individual ported indicator. The indicator that will be used (either the individual or the group ported indicator) will be the one that is displayed by Recent Change for the ported field on the line assignment views. See rc-oda-rules for more information.

**Attribute:**
vpn_access
**Fullname:**
VPN Trigger Detection
**Attribute Description:**
This attribute, if set to DBYES, indicates a Virtual Private Network (VPN) trunk group.

**Attribute:**
mbg_trans
**Fullname:**
MBG Transport
**Attribute Description:**
This attribute indicates whether the trunk supports receiving/sending MBG information on incoming/outgoing trunks between EO/localside and VPN switch. SFID270 must be unlocked via RC View 8.22 before mbg_trans may be set to DBYES.

**Attribute:**
mint_sig
**Fullname:**
MINT signaling type.
**Attribute Description:**
This attribute is used to denote MINT signaling type

**Attribute:**
queue_inh
**Fullname:**
Queue inhibit indicator
**Attribute Description:**
This attribute is used to indicate that reroute queuing is inhibited on this trunk group.

**Attribute:**
net_indicator
**Fullname:**
Network Indicator
**Attribute Description:**
Indicates if the call is entering or exiting an office from within (ON) or outside (OFF) of the network.

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**Attribute:**
dal_egress
**Fullname:**
DAL (Direct Access Link) egress indicator
**Attribute Description:**
Indicates an outgoing or 2-way DAL trunk.

**Attribute:**
spc_pbx
**Fullname:**
Special PBX protocol indicator
**Attribute Description:**
This attribute identifies whether or not to send the new Dialed Number Identification Service (DNIS) protocols to the PBX. This is to distinguish PBXs that can only accept the standard protocol, versus the new protocol. If this bit is set to DBYES on RC View 5.1, the following protocols are sent, dependent upon the type of signaling used.

* DTMF - *ANI*DN* or **DN* or *ANI** or ***, depending on the information available
* MF - DN, without KP + ST

SFID271 must be unlocked via RC View 8.22 before spc_pbx may be set to DBYES.

**Attribute:**
dal_access
**Fullname:**
Direct Access Links (DAL) indicator
**Attribute Description:**
This attribute, if set to DBYES on RC View 5.1, indicates that the DAL feature is allowed for this trunk group.

SFID126 and SFID272 must be unlocked via RC View 8.22 before dal_access may be set to DBYES.

**Attribute:**
ct_trig
**Fullname:**
Cutthrough trigger
**Attribute Description:**
Trigger number to allow for triggering on feature group D (FGD) cutthrough calls

**Attribute:**
passani
**Fullname:**
Pass Automatic Number Identification (ANI) indicator

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**Attribute Description:**

When this indicator is set to DBYES, then 2-stage Equal Access Multi-Frequency (EAMF) signaling will be used, that is, the ANI, if available, will be sent, on calls egressing the Long Distance Platform (LDP) network on a Local Area Transport Area (LATA) MF trunk to a Local Exchange Carrier (LEC) or a Private Branch Exchange (PBX).

When this indicator is set to DBNO, then the ANI may not be sent to the LEC or PBX (or the situation does not apply). Note that the ANI is normally sent to an Inter-Exchange Carrier (IC).

**Attribute:**

pref_npa

**Fullname:**

prefix NPA

**Attribute Description:**

This field is used to determine which NPA (if any) will be prefixed to a seven-digit destination number incoming to the switch on a LATA trunk.

**Attribute:**

dnis_user

**Fullname:**

Dialed Number Identification Service II (DNIS II) end user

**Attribute Description:**

This attribute, if set to DBYES, identifies a DNIS subscribed trunk for the Transport of Original Dialed Number feature. The original dialed number shall be sent out to the PBX as follows:

PRI: At the terminating switch for PRI, in the Called Party Number Information Element of the Q.931 message.

MF: At the terminating switch for MF, in the Called Party Number signaling.

SFID498 must be unlocked before dnis_user may be set to DBYES. SFID498 is temporary and will only be supported in 5E13 BMI. Beginning in 5E13 SU, SFID498 will be replaced with SFID271.

**Attribute:**

acctprompt

**Fullname:**

Long Distance Platform (LDP) account code feature prompt

**Attribute Description:**

This attribute provides the LDP Account Code prompt type for incoming or two-way trunk groups where the LDP Account Code feature is active for the 400Hz Carrier Tone feature.

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The following prompt types can be provided:

BEEP2: account code prompt of two audible beeps
ANNC: SAS announcement
CARRIER: 400Hz carrier tone
GLOBAL: prompt type assigned value of Glactprmpt

SFID498 must be unlocked before acctprompt may be assigned any value other than GLOBAL. SFID498 is temporary and will only be supported in 5E13 BMI. Beginning in 5E13 SU, SFID498 will be replaced with SFID165.

**Attribute:**
ct_for_dt
**Fullname:**
400Hz carrier tone for dial tone
**Attribute Description:**
Activation status for carrier tone to be applied instead of dial tone for an incoming or a 2-way trunk group.

**Attribute:**
ctxid
**Fullname:**
Context Identifier
**Attribute Description:**
This attribute indicates if the trunk associated with this tuple is unbundled or resold. A trunk is unbundled if ctxid = CTXID_UNBNLD; it is resold if ctxid = CTXID_RESOLD.

**Attribute:**
eonbill_dn
**Fullname:**
End Office Nodal (EON) Billing Number
**Attribute Description:**
The EON billing number is a ten digit DN which will be used to populate the ChargeNumber parameter of the TCAP Info_Collect message. When populated, eon_plan must also be populated. The format is NPA-XXX-XXXX.

SFID 515, must first be unlocked in order to assign this field a value.

**Attribute:**
eon_plan
**Fullname:**
End Office Nodal (EON) Numbering Plan
**Attribute Description:**
Numbering plan for the EON billing number. It identifies the numbering plan as ISDN or Action Point Number (APN). When

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populated, eonbill_dn must also be populated.

SFID 515, must first be unlocked in order to assign this field a value.

**Attribute:**
eonpriv_ind
**Fullname:**
End Office Nodal (EON) Privacy Indicator
**Attribute Description:**
Privacy indicator for the EON billing number. When set to DBYES it identifies the number as private.

**Attribute:**
eonpref_ind
**Fullname:**
End Office Nodal (EON) Prefix Indicator
**Attribute Description:**
When this indicator is set to DBYES, the FAR END NPA will be prefixed to a seven-digit dialed number incoming to the 5ESS(R)-2000 switch on an EOLN2 trunk.

SFID 515 must first be unlocked in order to assign a value to this field.

**Attribute:**
rel_link_init
**Fullname:**
Release Link Indicator
**Attribute Description:**
This attribute indicates whether this incoming trunk group is eligible for Release Link processing.

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# RCTRK_R

## 1. Description

This relation contains the remarks and CLCI's associated with trunk view. This is a root storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 30000 |
| expected number of tuples | 3000 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | LP |
| application | CCS |
| relation type | DBSTORAGE |

## 3. Field Layout

```
RCTRK_R     relid = 1711  DBSTORAGE  DBACC_DHSH  DBPRAM    LP      CCS


     transclass  DMUNS16      (ushort)
     clci        DMGK14       (ulong: 14)
     grpnum      DMGRUPNM     (ushort: 13)      <--- key
     member      DMMEM        (ushort: 12)      <--- key
         User, Compacted and Stored Tuple Layout    RCTRK_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |   |
  0 |           transclass          |            clci               |***|
    |---------------+---------------+---------------+---------------|
    |                           |     |                         |       |
  4 |          grpnum           |*****|         member          |*******|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLrctrk_r

**Relation Description**

There are no population rules for this relation.

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# RDFI_CON

## 1. Description

Relation that gives the connection of DFI's between an RSM and its associated HIM. There is one tuple for every RSM/HIM connecting link in the *5ESS*®-2000 switch complex. This relation is used for RDFI/HDFI pairs in DLTUs (RSMs on T1 facilities) and RDFI2/HDFI or RDFI2/HDFI2 pairs in DLTU2s (T1 facilities), or DLTU_Es (RSMs on ITU-TS/CEPT facilities).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 160 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | DBNO |
| head table size | 1024 |
| data page size | 256 |
| page level | 2 |
| permutation type | un_perm |

## 3. Field Layout

```
RDFI_CON    relid = 428   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     rsm          DMMODULE     (ushort: 8)  <--- key, not stored
     rdltu        DMUNS3       (ushort: 3)  <--- key, not stored
     rdfi         DMUNS4       (ushort: 4)  <--- key, not stored
 (a) rfac         DMUNS1       (ushort: 1)  <--- key, not stored
     him          DMMODULE     (ushort: 8)
     hdltu        DMUNS3       (ushort: 3)
     hdfi         DMUNS4       (ushort: 4)
 (b) hfac         DMUNS1       (ushort: 1)
         User and Compacted Tuple Layout   RDFI_CON
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |     |       | |                               |
  0 |      rsm      |rdltu|  rdfi |a|*******************************|
    |---------------+---------------+---------------+---------------|
    |               |     |       | |                               |
  4 |      him      |hdltu|  hdfi |b|*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     him          DMMODULE     (ushort: 8)
     hdltu        DMUNS3       (ushort: 3)
     hdfi         DMUNS4       (ushort: 4)
 (a) hfac         DMUNS1       (ushort: 1)
           Stored Tuple Layout     RDFI_CON
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |     |       | |                               |
  0 |      him      |hdltu|  hdfi |a|*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

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## 4. Population Rules for RLrdfi_con

**Relation Description**
Remote digital facility interface connections.

Relation that gives the connection of DFI's between an RSM and its associated HIM. There is one tuple for every link connecting a HIM and an RSM in the *5ESS*®-2000 switch complex.
This relation is used for RDFI/HDFI pairs in DLTUs (RSMs on T1 facilities) and RDFI2/HDFI or RDFI2/HDFI2 pairs in DLTU2s (T1 facilities), or DLTU_Es (RSMs on ITU_TS/CEPT facilities). The relation RLRDFI_CON and the relation RLHDFI_CON contain similar data: RLHDFI_CON keys from the HIM and RLRDFI_CON keys from the RSM. A change in one of these relations requires the corresponding change in the other relation.

**Attribute: rsm**

**Fullname:** Remote Switching Module

**Attribute Description** SM number of RSM (1-192).

**Attribute: rdltu**

**Fullname:** Remote Digital Line and Trunk Unit

**Attribute Description** DLTU, DLUT2, or DLTU_E number at RSM end (0-5).

**Attribute: rdfi**

**Fullname:** Remote Digital Facility Interface

**Attribute Description** RDFI/RDFI2 number at RSM end (1-10 for DLTU/DLTU2, stored as 0-9, and 1-16 for DLTU_E, stored as 0-15).

**Attribute: rfac**

**Fullname:** Remote Facility

**Attribute Description** Relative facility number on a RSM end RDFI (0) or RDFI2 (0-1).

**Attribute: him**

**Fullname:** Host Switching Module

**Attribute Description** SM number of HIM (1-192).

**Attribute: hdltu**

**Fullname:** Host Digital Line & Trunk Unit

**Attribute Description** DLTU, DLTU2, or DLTU_E number at HIM end (0-5).

**Attribute: hdfi**

**Fullname:** Host Digital Facility Interface

**Attribute Description** HDFI/HDFI2 number at HIM end (1-10 for DLTU/.DLTU2, stored as 0-9, and 1-16 for DLTU_E, stored as 0-15.).

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**Attribute: hfac**

**Fullname:** Host Facility

**Attribute Description** Relative facility number on a Host SM end Host DFI (0) or HDFI2 (0-1).

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# RDRMK_R

## 1. Description

This is the root storage relation for RC_RDRMK.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTORAGE |
| foldtype | DBGC31 |

## 3. Field Layout

```
RDRMK_R     relid = 3008  DBSTORAGE  DBACC_HASH  DBPRAM    LP      RCDATA


     rdit        DMSHORT      (short)   <--- key
     remarks     DMGK16       (ulong: 16)
     rcdigs      DMDIGSTRING  (array [ 15 ] of char )   <--- key, compacted
     rmdigs      DMDIGSTRING  (array [ 15 ] of char )   <--- key, compacted
            User Tuple Layout   RDRMK_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              rdit             |            remarks            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             rcdigs                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             rcdigs                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                             rcdigs                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                               |               |
 16 |                     rcdigs                    |     rmdigs    |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                             rmdigs                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 24 |                             rmdigs                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 28 |                             rmdigs                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 32 |             rmdigs            |*******************************|
    |---------------+---------------+---------------+---------------|
```

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```
  ( 36 bytes )


   rdit        DMSHORT      (short)   <--- key
   remarks     DMGK16       (ulong: 16)
   rcdigs      DMKDIGSTR    (array [ 8 ] of char )    <--- key, compacted
   rmdigs      DMKDIGSTR    (array [ 8 ] of char )    <--- key, compacted
        Compacted Tuple Layout    RDRMK_R
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |              rdit             |            remarks            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
 4 |                             rcdigs                            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 8 |                             rcdigs                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
12 |                             rmdigs                            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
16 |                             rmdigs                            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |***************************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
24 |***************************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
28 |***************************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
32 |***************************************************************|
   |---------------+---------------+---------------+---------------|
  ( 36 bytes )


   rdit        DMSHORT      (short)   <--- key
   remarks     DMGK16       (ulong: 16)
   rcdigs      DMKDIGSTR    (array [ 8 ] of char )    <--- key, compacted
   rmdigs      DMKDIGSTR    (array [ 8 ] of char )    <--- key, compacted
       Stored Tuple Layout      RDRMK_R
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |              rdit             |            remarks            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
 4 |                             rcdigs                            |
```

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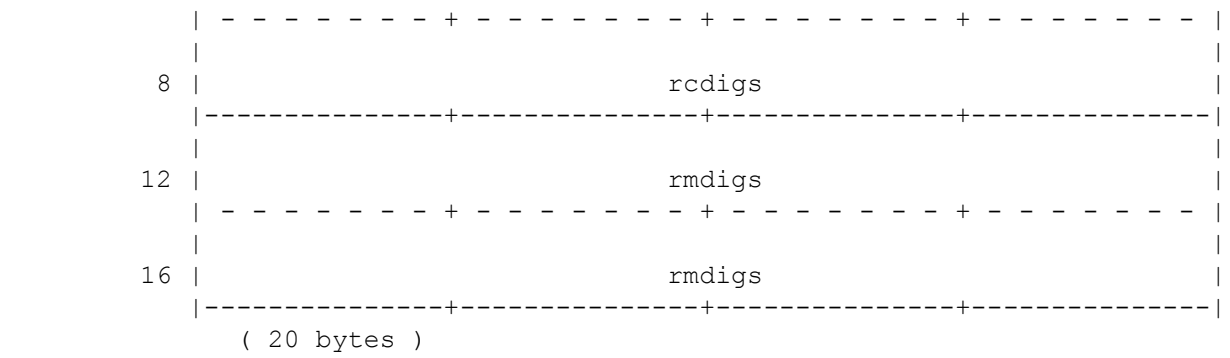


## 4. Population rules for RLrdrmk_r

**Relation Description**

There are no population rules for this relation.

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# RDT2UNIT

## 1. Description

This relation maps the circuit name of TR-303 RDT (PCRDT303) to the unit number of TR-303 RDT. It is the inverse mapping of RLunit2rdt.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 240 |
| expected tuples in relation | 20 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | DBrdt2unit_trg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
RDT2UNIT    relid = 2737  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     rtname      DMCIRCUIT    (ushort)     <--- key
     rdt_unit    DMUNITNO     (ushort: 8)
         User, Compacted and Stored Tuple Layout   RDT2UNIT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |             rtname            |    rdt_unit   |***************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLrdt2unit

**Relation Description**
Maps Remote Digital Terminal to an internal RT unit number.

This relation maps the RT circuit name to an internal RT unit number( a sequential number of each TR303 in an SM).

**Attribute: rdt_unit**

**Fullname:** Remote Digital Terminal unit number

**Attribute Description** This is an internal RT unit number which is a sequential number assigned to each TR-303 RDT in an SM.

**Attribute: rtname**

**Fullname:** RT circuit name

**Attribute Description** This is an internal circuit name of the RT.

**Defines:** /* NONE */

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# REG2GRP

## 1. Description

This WCTX relation contains the registration area identifier data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution type | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
REG2GRP     relid = 2227  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     reg         DMREGAREA    (struct)  <--- key
         wspid       DMWSPID      (ushort)
         regcode     DMUNS12      (ushort: 12)
     rpcu_grpid  DMRPCU_GRP   (ushort: 8)
     tntgrpid    DMTGRPID     (ushort: 8)
 (a) area_type   DMAREATYPE   (enum: 1)
         User, Compacted and Stored Tuple Layout    REG2GRP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============ reg ============+===============|
    |                                |                       |       |
  0 |             wspid              |        regcode        |*******|
    |===============+===============+===============+===============|
    |               |               | |                             |
  4 |   rpcu_grpid  |    tntgrpid   |a|*****************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLreg2grp

There are no population rules for this relation.

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# REGDATA

## 1. Description

This relation contains the registration area data for Air Extension(SM).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution type | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
REGDATA     relid = 2584  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     reg          DMREGAREA    (struct)     <--- key
         wspid        DMWSPID      (ushort)
         regcode      DMUNS12      (ushort: 12)
     rpcu_id      DMRPCUID     (ushort)
     tntgrpid     DMTGRPID     (ushort: 8)
 (a) area_type    DMAREATYPE   (enum: 1)
         User, Compacted and Stored Tuple Layout    REGDATA
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============ reg ============+===============|
    |                                |                        |       |
  0 |              wspid             |        regcode         |*******|
    |================+===============+================+===============|
    |                                |                | |             |
  4 |             rpcu_id            |    tntgrpid    |a|*************|
    |----------------+---------------+----------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLregdata

**Relation Description**
Registration Area Data.

This relation is needed by the Air Extension(SM).This relation contains registration area data.

**Attribute: reg**

**Fullname:** Registration Area Identifier

**Attribute Description** It uniquely identifies for each registration area.

**Attribute: rpcu_id**

**Fullname:** RPCU Identifier

**Attribute Description** It uniquely identifies each RPCU interfaced with a WNC.

**Attribute: area_type**

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**Fullname:** Registration Area Type Identifier

**Attribute Description** Identifies the type of the registration area.

**Attribute: tntgrpid**

**Fullname:** Tenant Group Identifier

**Attribute Description** Identifies the tenant group which this registration area belongs.

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# REM_G

## 1. Description

Storage relation to store 16-byte REMARKS field.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65535 |
| expected tuples | 1000 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTORAGE |
| head table size | 4096 |
| data page size | 1024 |
| page level | 2 |
| index length | 0 |
| ks key store | DBNO |
| permutation type | perm |
| foldtype | DBGC31 |
| gkidxrel reverse index | rlREM_I |

## 3. Field Layout

```
REM_G       relid = 1712  DBSTORAGE  DBACC_GK    DBPRAM    LR      NULL
     gkREM_G     DMGK16       (ulong: 16)  <--- key, not stored
     rem         DMTEXT       (array [ 16 ] of char )
         User and Compacted Tuple Layout  REM_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |*******************************|            gkREM_G            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             rem                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             rem                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                             rem                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                             rem                               |
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
     rem         DMTEXT       (array [ 16 ] of char )
           Stored Tuple Layout    REM_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                         GK LINK FIELD                         |
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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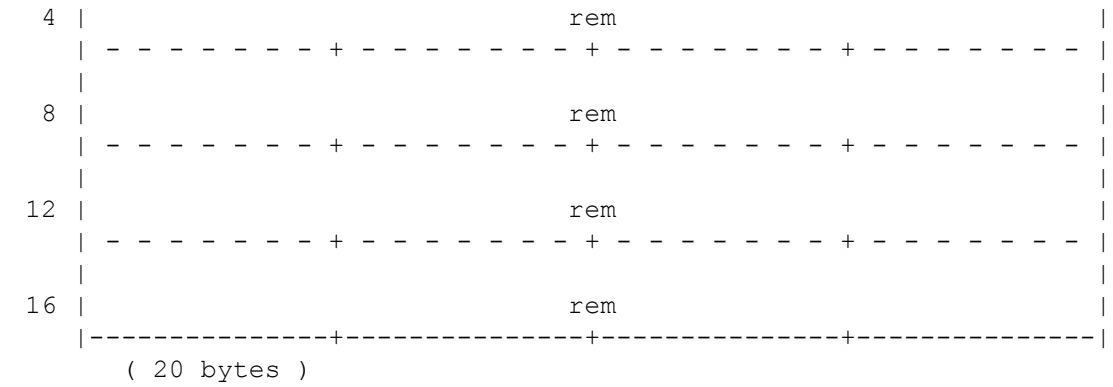


## 4. Population Rules for RLrem_g

There are no population rules for this relation.

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# REMBV_RI

## 1. Description

This relation contains the Remote Route Index (RRTI) corresponding to a given ISAT Index and Route Index for the ISAT Remote Busy Verification feature. The rrti will be utilized by the ISAT to terminate to the DN located on a remote switch.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2048 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LRFG |
| relation type | DBSTATIC |

## 3. Field Layout

```
REMBV_RI    relid = 1766  DBSTATIC   DBACC_HASH  DBPRAM    LRFG    NULL
     rti          DMRTEIDX     (ushort: 14)     <--- key
     rrti         DMRTEIDX     (ushort: 14)
     isat_idx     DMISATGRP    (ushort: 6)     <--- key
         User, Compacted and Stored Tuple Layout   REMBV_RI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                             |   |                             |   |
  0 |             rti             |***|             rrti            |***|
    |---------------+---------------+---------------+---------------|
    |           |                                                     |
  4 |  isat_idx |*****************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLrembv_ri

**Relation Description**
Remote Busy Verification Route Index.

This relation contains the Remote Routing Index, for a given ISAT index & digit analysis route index combination, needed to perform a Remote Busy Verification call.

**Attribute: isat_idx**

**Fullname:** ISDN attendant index

**Attribute Description** This is an abstract representation of an ISDN Attendant (ISAT) Multiline Hunt Group (MLHG) number. This index is obtained from the relation RLrt_mhg keyed by the MLHG group number.

**Attribute: rti**

**Fullname:** Route Index

**Attribute Description** This attribute represents the resulting route index from digit analysis. Note:

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No restrictions are being implemented limiting the class of service of the route indices that RLrembv_ri.rti can have. Currently the only route indices that should be populated are those that allow voice calls and are not routing across an ISAT Busy Verify Trunk group.

**Attribute: rrti**

**Fullname:** Remote Route Index

**Attribute Description** This attribute identifies a ISDN Attendant (ISAT) Busy Verify Trunk (BVT) that the ISAT will terminate to in order to attempt a Remote Busy Verification on a DN on a remote *5ESS*®-2000 switch.

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# RESXDL

## 1. Description

Restricted external dialing table for operator This table contains the dialing numbers restricted to operators in a serving team. This relation has only a dummy non-key attribute since it is ised only to verify the existence of a tuple.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 640 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 1024 |
| page level | 0 |

## 3. Field Layout

```
RESXDL      relid = 635   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     dial_dig    DMEXDLSTR    (array [ 32 ] of char )  <--- key
     dummy       DMDUMMY      (ushort: 8)
     resxdl_idx  DMUNS7       (ushort: 7)  <--- key
         User, Compacted and Stored Tuple Layout RESXDL
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                            dial_dig                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                            dial_dig                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                            dial_dig                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                            dial_dig                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                            dial_dig                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                            dial_dig                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 24 |                            dial_dig                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 28 |                            dial_dig                           |
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
 32 |     dummy     |  resxdl_idx   |*******************************|
    |---------------+---------------+---------------+---------------|
```

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```
( 36 bytes )
```

## 4. Population Rules for RLresxdl

**Relation Description**
Restricted external dialing (RESXDL) table.

Restricted external dialing table for operator. This table contains the dialing numbers restricted to operators in a serving team. This relation has only a dummy non-key attribute since it is used only to verify the existence of a tuple.

**Attribute: resxdl_idx**

**Fullname:** restricted external dialing index

**Attribute Description** Identifies the restricted external dialing table.

**Attribute: dial_dig**

**Fullname:** Dial digits

**Attribute Description** Operator entered digits.

**Attribute: dummy**

**Fullname:** dummy

**Attribute Description** Dummy, not used.

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# RETROCHK

## 1. Description

This is a dummy relation to be used by the On-switch audit to hold retrofit critial prl checks.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | LPFR |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| permutation type | perm |

## 3. Field Layout

```
RETROCHK    relid = 2596  DBSTATIC   DBACC_LIN   DBPRAM    LPFR    RCMAP
 (a) dumkey      DMBOOL       (enum: 1)     <--- key
 (b) dumattr     DMBOOL       (enum: 1)
        User and Compacted Tuple Layout   RETROCHK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | | |                                                           |
 0  |a|b|***********************************************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
 (a) dumkey      DMBOOL       (enum: 1)     <--- key
 (b) dumattr     DMBOOL       (enum: 1)
          Stored Tuple Layout     RETROCHK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | | |                                                           |
 0  |a|b|***********************************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLretrochk

**Relation Description**
RLretrochk.R

This relation is a placeholder relation for retrofit critical checks. The checks performed in the 'checks:' section are related exclusively to the BREV retrofit capability. This relation contains the Target release checks that are SU'ed to the previous release to ensure that checks critical to a BREV retrofit are executed by the SODD Audit prior to the retrofit to the Target release.

**Attribute: dumkey**

**Fullname:** Dummy Key: DBYES,DBNO

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**Attribute Description** Dummy key needed to access the relation

**Attribute: dumattr**

**Fullname:** Dummy Attribute

**Attribute Description** Dummy attribute to satisfy a legal relation.

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# RG2AIU

## 1. Description

This relation contains the mapping of Ring Generator (RG) to Access Interface Units (AIU) that the RG services.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 252 |
| expected number of tuples | 84 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | TLA |
| padding indicator | unpadded |
| permutation type | un_perm |

## 3. Field Layout

```
RG2AIU      relid = 2568  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL


     rgname      DMCIRCUIT    (ushort)  <--- key
     rgmate      DMCIRCUIT    (ushort)
     aiunit0     DMUNITNO     (ushort: 8)
     aiunit1     DMUNITNO     (ushort: 8)
     aiunit2     DMUNITNO     (ushort: 8)
     aiunit3     DMUNITNO     (ushort: 8)
     aiunit4     DMUNITNO     (ushort: 8)
     aiunit5     DMUNITNO     (ushort: 8)
 (a) external_rg  DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout RG2AIU
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              rgname           |              rgmate           |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |    aiunit0    |    aiunit1    |    aiunit2    |    aiunit3    |
    |---------------+---------------+---------------+---------------|
    |               |               | |                             |
  8 |    aiunit4    |    aiunit5    |a|*****************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population rules for RLrg2aiu

### Relation Description

```
        Ring Generator (RG) to Access Interface Unit (AIU)

        This relation tells which AIU a RG services.
```

**Attribute:**

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rgname

**Fullname:**

Ring Generator Name

**Attribute Description:**

The key to this relation.

**Attribute:**

rgmate

**Fullname:**

Ring Generator Mate

**Attribute Description:**

The mate to rgname

**Attribute:**

aiunit[*]

**Fullname:**

Access Interface Unit

**Attribute Description:**

The AIUs this RG services. aiunit0 is the unit that hosts (physically contains) rgname.

**Attribute:**

external_rg

**Fullname:**

External Ring Generator

**Attribute Description:**

A Ring Generator that is external to (*)AIU. An external RG would not be located in any one of the slots on (*)AIU.

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# RI_DGRP

## 1. Description

This relation assigns a RISLU D-channel port name to a piggy-back group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 640 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | AUTO |
| l1 length of subkey1 | 3 |
| p1 position of subkey1 | 8 |
| l2 length of subkey2 | 8 |
| p2 position of subkey2 | 0 |
| l3 length of subkey3 | 5 |
| p3 position of subkey3 | 11 |

## 3. Field Layout

```
RI_DGRP     relid = 1227  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     dport       DMPORT       (ushort)     <--- key, not stored
     pgybkgrp    DMUNS5       (ushort: 5)
  (a) log_pidb   DMUNS2       (ushort: 2)
         User and Compacted Tuple Layout    RI_DGRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             dport             |*******************************|
    |---------------+---------------+---------------+---------------|
    |          |    |                                               |
  4 | pgybkgrp| a |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     pgybkgrp    DMUNS5       (ushort: 5)
  (a) log_pidb   DMUNS2       (ushort: 2)
           Stored Tuple Layout      RI_DGRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |          |    |                                               |
  0 | pgybkgrp| a |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLri_dgrp

**Relation Description**
Remote integrated services line units (RISLU, RAIU) D-channel port to piggy-back group assignment.

This relation assigns a RISLU/RAIU D-channel port to a piggy-back group. There are 32 piggy-back groups which are associated with the 32 PSIUPIDB time slots. There is no direct relationship between the piggy-back groups and the PSIUPIDB time slots ( that is, the piggy-back groups are logical time slots).

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**Attribute: dport**

**Fullname:** D-channel port name

**Attribute Description** Populate with the RISLU/RAIU D-channel port name.

**Attribute: pgybkgrp**

**Fullname:** Piggy-back group number

**Attribute Description** Piggy-back group number of the RISLU/RAIU D-channel.

**Attribute: log_pidb**

**Fullname:** Logical PIDB number on a PSU shelf.

**Attribute Description** This is just a logical PIDB number ranging 0-3, on a PSU shelf.

**Defines:**"db/DMport.h"

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# RIBM_SC

## 1. Description

This relation contains information about RISLU Remote Alarm Section (RAS) building/miscellaneous alarm scan points. One RISLU at each RISLU site may be (optionally) equipped with a RAS that provides building/miscellaneous alarm scanning.

client process: HMrisap

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | HMribmsc_trg |
| head table size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| ks key store | DBNO |

## 3. Field Layout

```
RIBM_SC     relid = 749   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     risitid     DMRISITID    (ushort: 10)     <--- key, not stored
     ptnum       DMRIBM_SC    (ushort: 5)     <--- key, not stored
     ttyname     DMCHR21      (array [ 21 ] of char )
     mccname     DMCHR9       (array [ 9 ] of char )
 (a) alm_lvl     DMHMSC_ALM   (enum: 3)
 (b) inuse       DMBOOL       (enum: 1)
 (c) prot_rc     DMUNS1       (ushort: 1)
         User and Compacted Tuple Layout    RIBM_SC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |         |                                 |
  0 |      risitid      |  ptnum  |*********************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            ttyname                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
  8 |                            ttyname                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 12 |                            ttyname                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 16 |                            ttyname                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 20 |                            ttyname                            |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |               |                                               |
```

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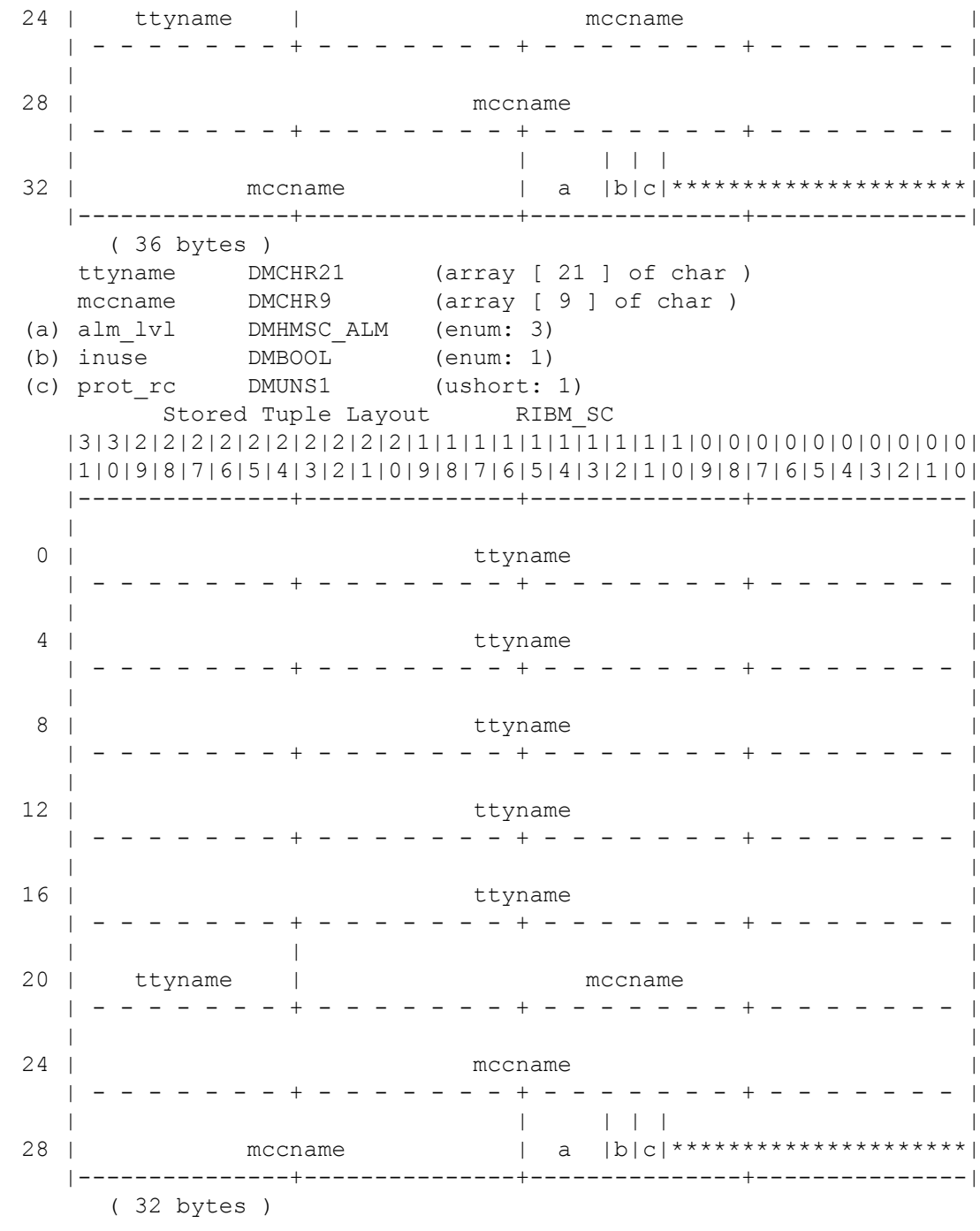


## 4. Population Rules for RLribm_sc

**Relation Description**
remote building/miscellaneous alarm SCan points.

Relation containing information about remote peripherals. Remote Alarm Section (RAS) building/miscellaneous alarm scan points. One RISLU at each RISLU site may be (optionally) equipped with a RAS that provides building/miscellaneous alarm scanning.

REQUIRED (INITIALIZED) POPULATION FOR RLRIBM_SC. An SM may host from zero to eight RASs, each RAS

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corresponding to a unique RISLU site id (risitid). RLRIBM_SC in a particular SM is initialized with two tuples for each RAS hosted by the SM (maximum of 16 tuples per SM at initialization). These two tuples each have risitid set to the RAS's associated RISLU site id; the remaining attributes are specified by the following layout.

```
_____________________________________________________________________
ptnum  mccname   ttyname                alm_lvl        prot_rc   inuse
---------------------------------------------------------------------
  0    (blank)   FIRE                   HMSC_CRIT          1      DBYES
  1    (blank)   FIRE ALARM TROUBLE     HMSC_MAJ           1      DBYES

---------------------------------------------------------------------
INITIALIZATION  EXAMPLE: Given that SM 24 will host an RAS located at RISLU
  site 512 and a second RAS located at RISLU site 520, then RLRIBM_SC in SM
  24 will be initialized with four tuples as follows:

risitid   ptnum    ( ... remaining RLRIBM_SC attributes ...)
512         0                  see the previous layout
512         1                  see the previous layout
520         0                  see the previous layout
520         1                  see the previous layout
```

Each tuple in this relation represents a single alarm scan point on the (optional) remote peripheral Remote Alarm Section. A remote site can have at most one RAS. An SM can host up to eight RASs, since an SM can host up to eight remote peripherals and the remote peripherals could all be at unique remote sites. An SM will have in its relation the tuples for all alarm scan points on each RAS-equipped RISLU hosted by the SM.

Since the RAS has 32 scan points and an SM can host up to eight RAS-equipped RISLUs, an SM can have up to 256 tuples."

**Attribute: risitid**

**Fullname:** RLrisite ID

**Attribute Description** This is the identification number of the remote site where the RAS providing this alarm scan point resides. This attribute corresponds to the key attribute of RLRPSITE.

**Attribute: ptnum**

**Fullname:** Point number

**Attribute Description** RAS alarm scan point number (0-31). Tuples with ptnum values 0 and 1 are required. Tuples with ptnum values 2-31 are office assignable.

**Attribute: mccname**

**Fullname:** MCC name

**Attribute Description** Office-assignable label of 9 ASCII characters to be displayed on the MCC for the name of the point. If less than 9 characters are supplied the remaining characters should be null.

**Attribute: ttyname**

**Fullname:** ttyname

**Attribute Description** Office-assignable label of 20 ASCII characters to be included in switch personnel output messages concerning this alarm scan point. If less than 20 characters are

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supplied the remaining characters in the field should be null. The domain is 21 characters long. The 21st character position must be null.

**Attribute: alm_lvl**

**Fullname:** Alarm level

**Attribute Description** Alarm level sounded when scan point goes off-normal. This is office assigned based on the relative importance of the device being monitored.

**Attribute: prot_rc**

**Fullname:** Protect recent change

**Attribute Description** Protects tuple by denying recent change activity. When prot_rc is 0, the tuple can be deleted or updated. When prot_rc is 1 the tuple may not be deleted or updated. This attribute is not to be entered from any recent change view. This attribute is set to zero for tuples where ptnum is 2-31.

**Attribute: inuse**

**Fullname:** inuse

**Attribute Description** DBYES - the alarm is operational.
DBNO - that no alarms will be reported.

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# RISITE

## 1. Description

Relation containing configuration information about each RISLU site. This relation is modeled after the RSM RLCLIDAT relation. See db/DMarrisite.G and db/DMrisite.G for accessing RLRISITE tuple attributes as array elements.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 127 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | CIO |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
RISITE      relid = 734   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    CIO
     risitid     DMRISITID    (ushort: 10)  <--- key
     text        DMTEXT15     (array [ 15 ] of char )
     ri_cnt      DMUNS6       (ushort: 6)
     sm_alm      DMMODULE     (ushort: 8)
     ri_alm      DMUNITNO     (ushort: 7)
 (a) ras_eqp     DMBOOL       (enum: 1)
 (b) ras_dplx    DMBOOL       (enum: 1)
     smrislu0    DMSMRISLU    (struct)
         sm          DMMODULE     (ushort: 8)
         rislu       DMUNITNO     (ushort: 7)
     smrislu1    DMSMRISLU    (struct)
         sm          DMMODULE     (ushort: 8)
         rislu       DMUNITNO     (ushort: 7)
     smrislu2    DMSMRISLU    (struct)
         sm          DMMODULE     (ushort: 8)
         rislu       DMUNITNO     (ushort: 7)
     smrislu3    DMSMRISLU    (struct)
         sm          DMMODULE     (ushort: 8)
         rislu       DMUNITNO     (ushort: 7)
     smrislu4    DMSMRISLU    (struct)
         sm          DMMODULE     (ushort: 8)
         rislu       DMUNITNO     (ushort: 7)
     smrislu5    DMSMRISLU    (struct)
         sm          DMMODULE     (ushort: 8)
         rislu       DMUNITNO     (ushort: 7)
     smrislu6    DMSMRISLU    (struct)
         sm          DMMODULE     (ushort: 8)
         rislu       DMUNITNO     (ushort: 7)
     smrislu7    DMSMRISLU    (struct)
         sm          DMMODULE     (ushort: 8)
         rislu       DMUNITNO     (ushort: 7)
         User, Compacted and Stored Tuple Layout RISITE
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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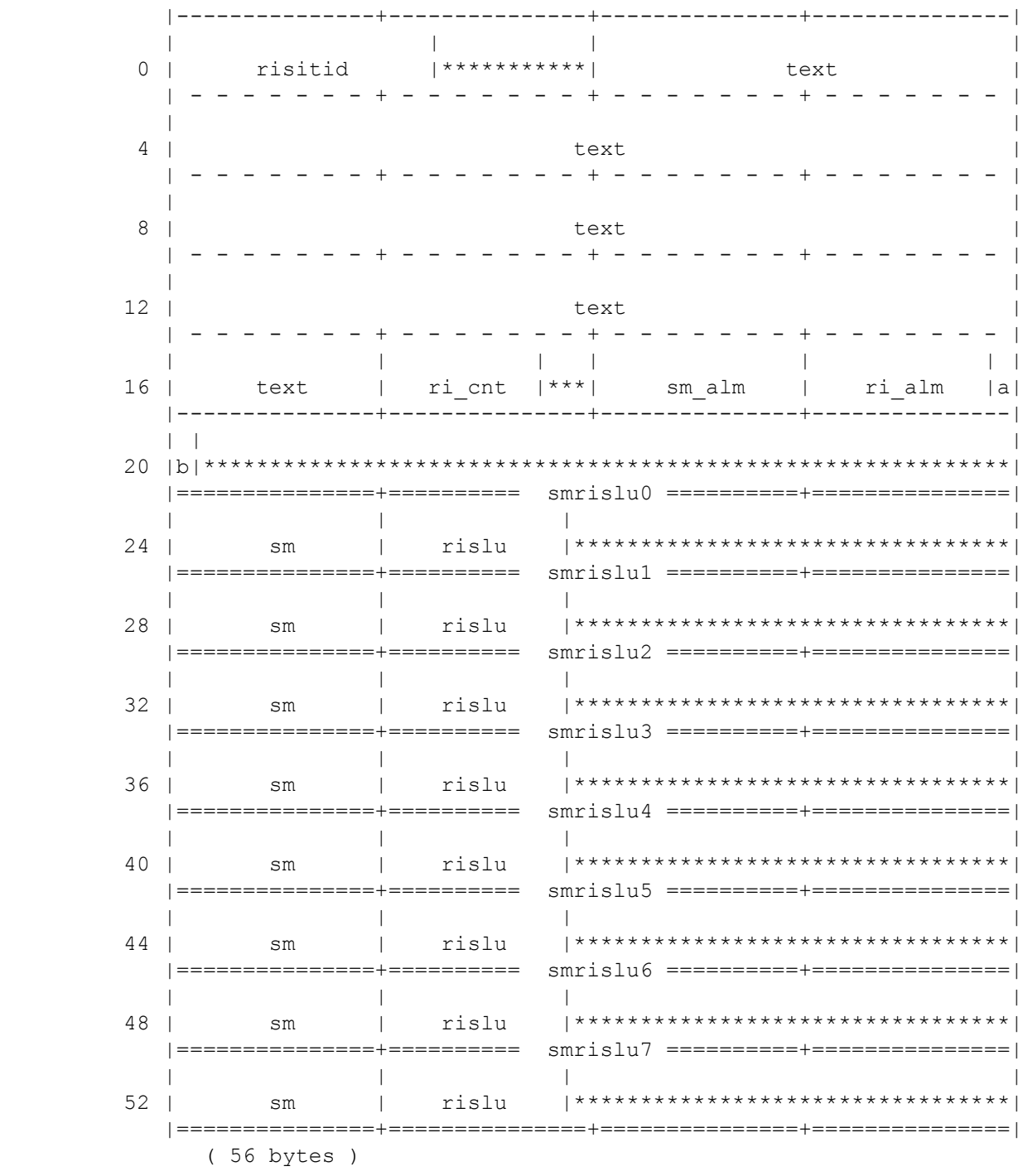


## 4. Population Rules for RLrisite

**Relation Description**
Configuration information about each RISLU site.

Relation containing configuration information about each RISLU site. This relation is modeled after the RSM RLCLIDAT relation. (see db/DMarrisite.G and db/DMrisite.G for accessing RLRISITE tuple attributes as array elements).

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Each tuple in this relation represents a single RISLU site. A RISLU site can have up to eight RISLUs. A RISLU site may be hosted by several switching modules: also a switching module may host several RISLU sites.

In general, a tuple will exist in this relation only if there exists at least one equipped RISLU (that is equipage state =SMOPER.) (During Growth, a new tuple may be added with no RISLUs, but this should be only a transitional state.) RISLUs in unequipped states will not appear.

**Attribute: risitid**

**Fullname:** RISLU site number

**Attribute Description** This is the identification number of the set of RISLUs which comprise the RISLU site. RISLU site numbers may range from 500 through 999. This range (see DMRISITID) is defined so as not to conflict with RSM site numbers (the latter are currently restricted to the range 1-174).

**Attribute: text**

**Fullname:** Title Of The Site

**Attribute Description** It is a text identification of the RISLU site (for example, name of town) and is used to title MCC display pages. If there are less than 15 characters the string should be padded with binary zeros.

**Attribute: ri_cnt**

**Fullname:** Number Of RISLUs At The Site

**Attribute Description** This attribute holds the number of RISLUs at the site, and must be less than or equal to MAXRISITESZ (8).

**Attribute: sm_alm**

**Fullname:** Number of SM Hosting RISLU With Building/Power Alarms

**Attribute Description** This attribute holds the module number (1-192) of the module that hosts the RISLU responsible for building and power alarms at the RISLU site. The following attribute (ri_alm) identifies the RISLU by unit number (0-7).

Although every RISLU scans its own fan and fuse alarms, one RISLU per RISLU site must be selected to scan power and battery alarms for the RISLU site. This same RISLU will also be used to scan building and miscellaneous (office defined) alarms if the RISLU site is equipped with the optional link adapter unit (LAU) remote alarm section (RAS).

During growth, if there are no RISLUs at this site, this should be populated with 0.

**Attribute: ri_alm**

**Fullname:** Unit Number Of The RISLU Responsible For Building/Power Alarms

**Attribute Description** This attribute holds the RISLU unit number relative to switching module sm_alm of the RISLU responsible for building and power alarms at the RISLU site (see previous description of sm_alm).
During growth, if there are not RISLUs at this site, this should be populated with 0.

**Attribute: ras_eqp**

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**Fullname:** Is RISLU site equipped with a remote alarm section (RAS) ?

**Attribute Description** This attribute is set to DBYES or DBNO according to whether the RISLU site is equipped with an RAS. If equipped, the RAS will be hosted by the RISLU indicated by the pair of attributes sm_alm and ri_alm.

**Attribute: ras_dplx**

**Fullname:** Is Site Equipped with (optional) RAS containing duplex ACCs

**Attribute Description** This attribute is set to DBYES if the RISLU site is equipped with a RAS containing duplex alarm conversion circuits (ACC)s. This attribute is set to DBNO if the RAS contains only a simplex ACC or if the RAS is unequipped at the RISLU site (see ras_eqp).

**Attribute: smrislu[*]**

**Fullname:** SM/RISLU Numbers Of The Nth RISLU At The Site

**Attribute Description** These remote member attributes are populated so as to identify the RISLUs at the RISLU site, in terms of the hosting SM number (1-192) and the RISLU unit number (0-7). Attributes that are not assigned should have the sm and rislu attributes (see DMSMRISLU) set to zero. The smrislu[0-7] attributes may be listed in any order (no correlation with any physical property is implied). Whenever possible assigned attribute pairs should be consecutive starting with smrislu0. If holes develop through degrowth, they should be filled when growing the next RISLU.

**Attribute: smrislu[*].sm**

**Fullname:** The Number Of The SM Hosting The Nth RISLU At The Site

**Attribute Description** Set to 0 if no RISLU in this slot.

**Attribute: smrislu[*].rislu**

**Fullname:** The RISLU Number Of The Nth RISLU At The Site

**Attribute Description** Set to 0 if no RISLU in this slot.

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# RISLUDFI

## 1. Description

This relation describes the RISLU DFIs and their relationship to other components in a RISLU.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |

## 3. Field Layout

```
RISLUDFI    relid = 727   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     dfi_picb    DMPICB       (ushort)     <--- key
     pidb0       DMCIRCUIT    (ushort)
     pidb1       DMCIRCUIT    (ushort)
     site        DMRISITID    (ushort: 10)
     lu          DMUCHAR      (uchar)
     hdfinum     DMUCHAR      (uchar)
     rdfinum     DMUCHAR      (uchar)
     ncts        DMUCHAR      (uchar)
         User, Compacted and Stored Tuple Layout   RISLUDFI
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            dfi_picb           |             pidb0             |
    |---------------+---------------+---------------+---------------|
    |                               |                   |           |
  4 |             pidb1             |        site       |***********|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  8 |       lu      |    hdfinum    |    rdfinum    |      ncts     |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLrisludfi

**Relation Description**
describes the RISLU DFIs and their relationships to other components.

This relation describes the various attributes associated with the RISLU DFI-H1/R1 and DFI-H2/R2 pairs in an SM. Each DFI pair has one tuple in this relation.

This relation describes the various attributes associated with the RISLU DFI-H1/R1 and DFI-H2/R2 pairs in an SM. Each DFI pair has one tuple in this relation.

Note that DFI-R1s and DFI-R2s are not explicitly represented in RLCKTDATA. The existence of a DFI-H1 or DFI-H2 tuple implies the existence of its DFI-R1 or DFI-R2 at the remote site.

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Key Format: See RLPICB population rules for RISLU DFI-H1s and DFI-H2s.

**Attribute: dfi_picb**

**Fullname:** picb number of RISLU DFI

**Attribute Description** The picb number that controls the DFI-H1 or DFI-H2. If a RISLU DFI has an tuple in RLCKTDATA, it must also have a tuple in this relation.

**Attribute: pidb0**

**Fullname:** ckt name of RISLU PIDB that connects the remote DFI to CD svc group 0

**Attribute Description** The internal circuit name of the RISLU PIDB that connects the remote DFI with CD service group 0 in the RISLU. The PIDB must also have a tuple in CKTDATA.

**Attribute: pidb1**

**Fullname:** ckt name of RISLU PIDB that connects the remote DFI to CD svc group 1

**Attribute Description** The internal circuit name of the RISLU PIDB that connects the remote DFI with CD service group 1 in the RISLU. The PIDB must also have a tuple in CKTDATA.

**Attribute: lu**

**Fullname:** RISLU line unit number

**Attribute Description** The line unit number of the RISLU that this DFI is connected to.

**Attribute: site**

**Fullname:** RISLU site number

**Attribute Description** The site number of the RISLU that this DFI is connected to. The site must be defined in RLrpsite.

**Attribute: hdfinum**

**Fullname:** host DFI number in host DFTU (DLTU-RH)

**Attribute Description** The DFI number in the DLTU-RH. If the DFI is a DFI-H1, the number must be in the range 1-4. If it is a DFI-H2, the number must be in the range 5-16.

**Attribute: rdfinum**

**Fullname:** remote DFI number in remote DLTU (DLTU-RR)

**Attribute Description** The DFI number in the DLTU-RR. If the DFI is a DFI-R1, the number must be in the range 1-2. If it is a DFI-R2, the number must be in the range 3-12.

**Attribute: ncts**

**Fullname:** number of control time slots on this facility

**Attribute Description** The number of time slots on this DFI that will be used for control information. This should be populated with 0 if the DFI is a DFI-H2. It should be populated with 1 if

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the DFI is a DFI-H1.

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# RMBLIST

## 1. Description

Multi-line hunt group random make busy list.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected tuples in relation | 5 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |
| density | 53 |
| trigger function | RTranupd |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
RMBLIST     relid = 1445  DBSTATIC   DBACC_CIND  DBPRAM    LPFG    GCRTG
     scndindex   DMSHORT      (short)  <--- key
     length      DMSHORT      (short)
     grpnum      DMGRPNUM     (ushort)
 (a) bsytrt      DMBSYTRT     (enum: 2)
     member1     DMULONG      (ulong)
     member2     DMULONG      (ulong)
     member3     DMULONG      (ulong)
     member4     DMULONG      (ulong)
     member5     DMULONG      (ulong)
     member6     DMULONG      (ulong)
     member7     DMULONG      (ulong)
     member8     DMULONG      (ulong)
     member9     DMULONG      (ulong)
     member10    DMULONG      (ulong)
     member11    DMULONG      (ulong)
     member12    DMULONG      (ulong)
     member13    DMULONG      (ulong)
     member14    DMULONG      (ulong)
     member15    DMULONG      (ulong)
     member16    DMULONG      (ulong)
     member17    DMULONG      (ulong)
     member18    DMULONG      (ulong)
     member19    DMULONG      (ulong)
     member20    DMULONG      (ulong)
     member21    DMULONG      (ulong)
     member22    DMULONG      (ulong)
     member23    DMULONG      (ulong)
     member24    DMULONG      (ulong)
     member25    DMULONG      (ulong)
     member26    DMULONG      (ulong)
     member27    DMULONG      (ulong)
```

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```
    member28    DMULONG      (ulong)
    member29    DMULONG      (ulong)
    member30    DMULONG      (ulong)
    member31    DMULONG      (ulong)
    member32    DMULONG      (ulong)
    member33    DMULONG      (ulong)
    member34    DMULONG      (ulong)
    member35    DMULONG      (ulong)
    member36    DMULONG      (ulong)
    member37    DMULONG      (ulong)
    member38    DMULONG      (ulong)
    member39    DMULONG      (ulong)
    member40    DMULONG      (ulong)
    member41    DMULONG      (ulong)
    member42    DMULONG      (ulong)
    member43    DMULONG      (ulong)
    member44    DMULONG      (ulong)
    member45    DMULONG      (ulong)
    member46    DMULONG      (ulong)
    member47    DMULONG      (ulong)
    member48    DMULONG      (ulong)
    member49    DMULONG      (ulong)
    member50    DMULONG      (ulong)
    member51    DMULONG      (ulong)
    member52    DMULONG      (ulong)
    member53    DMULONG      (ulong)
    member54    DMULONG      (ulong)
    member55    DMULONG      (ulong)
    member56    DMULONG      (ulong)
    member57    DMULONG      (ulong)
    member58    DMULONG      (ulong)
    member59    DMULONG      (ulong)
    member60    DMULONG      (ulong)
    member61    DMULONG      (ulong)
    member62    DMULONG      (ulong)
    member63    DMULONG      (ulong)
        User, Compacted and Stored Tuple Layout    RMBLIST
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |           scndindex           |             length            |
   |---------------+---------------+---------------+---------------|
   |                               |   |                           |
 4 |             grpnum            | a |***************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 8 |                           member1                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
12 |                           member2                             |
   |---------------+---------------+---------------+---------------|
                                   .
                                   .
```

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```
                                .
    |---------------+---------------+---------------+---------------|
    |                                                               |
252 |                           member62                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
256 |                           member63                            |
    |---------------+---------------+---------------+---------------|
       ( 260 bytes )
domain alRMBLIST   struct  (5 sub-attributes)
         scndinde    short        (short)
         length      short        (short)
         grpnum      unsigned short (ushort)
 (a)     bsytrt      .0fake       (enum)
         mbr_list    .0.fake      (array [ 63 ] of unsigned long )

         Structure Layout      alRMBLIST
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            scndinde           |             length            |
    |---------------+---------------+---------------+---------------|
    |                               |   |                           |
  4 |             grpnum            | a |***************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                           mbr_list                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                           mbr_list                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                    .
                                    .
                                    .
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
252 |                           mbr_list                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
256 |                           mbr_list                            |
    |---------------+---------------+---------------+---------------|
       ( 260 bytes )
```

## 4. Population Rules for RLrmblist

**Relation Description**
This relation is the random make busy list.

It contains the members of a mlhg that are associated with a particular scan point such that when the scan point is activated or deactivated these members are made busy or made idle, respectively. Analog subgrps are implicitly defined by using the same scan point definition for several analog multiline hunt groups members. When a RMB button is depressed then all members assigned to the scan point take this action. A particular tuple must be replicated to the Hunting SM of the group found by using RLhuntkeys.portgrp.grpnum to read RLrt_mhg where

RLrt_mhg.module is the module designated as HUNTING MODULE. The RMB members are shown in the bitmap representation in this relation.

The distribution type of this relation is GRP_PART with a grp_type of GPDSM_PART. The population of the RLrmblist tuple is for every tuple in the relation RLhuntkeys, where the attribute huntkey_type is FCRMKBUSY. The RLrmblist tuple is keyed by the RLhuntkeys.scndindex. The distribution of this tuple is populated on the HUNTING SM of the group which owns the FCRMKBUSY key, this is found by using RLhuntkeys. portgrp.grpnum to read RLrt_mhg where RLrt_mhg.module is the module designated as the HUNTING MODULE. A RLrmblist tuple must also be populated on a RSM/ORM if any member indicated in RLrmblist.member1 thru member63 port resides on a RSM/ORM. Also if the RSM is part of a MMRSM cluster a RLrmblist tuple must reside on each module in the cluster.

**Attribute: scndindex**

**Fullname:** scanpoint secondary index

**Attribute Description** Key to relation obtained from RLhuntkeys.

**Attribute: length**

**Fullname:** Length (size of) this random make busy group.

**Attribute Description** Number of members under control of the random make busy key (number of active members in the tuple).

**Attribute: grpnum**

**Fullname:** Group number of the hunt group.

**Attribute Description** Group number of the multi-line hunt group that the random make busy subset is a part of.

**Attribute: bsytrt**

**Fullname:** Busy Treatment

**Attribute Description** Busy treatment associated with the random make busy list.

**Attribute: member1**

**Fullname:** set of 32 bits.

**Attribute Description** Used as a bit map of 32 members. Each 32 bit field represents 32 multiline hunt group members. (A bit map of 2016 -- members 0 through 2015) If the member is a part of the RMB group then the bit is ON ( 1 -- DBYES) else the bit is 0.
bit 0 of member1 is unused. MLHG members are assigned in ascending order going from the least significant bit to the most significant bit.

```
examples:
member1 --> 31 - 0
member2 --> 63 - 32
member3 --> 95 - 64
member4 --> 127 - 96 (that is, member(1:63))
```

**Attribute: member[*]**

**Fullname:** set of 32 bits.

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**Attribute Description** Used as a bit map of 32 members. Each 32 bit field represents 32 multi-line hunt group members (A bit map of 2016 -- members 0 through 2015). If the member is a part of the RMB group then the bit is ON ( 1 -- DBYES) else the bit is 0.

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# RND_OPTS

## 1. Description

Redirecting number delivery (RND) feature options and defaults.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
RND_OPTS    relid = 1839  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     fid         DMFID        (ushort: 10)  <--- key
 (a) act_type    DMMC_ACTYP   (enum: 3)
 (b) deact_type  DMMC_DCTYP   (enum: 2)
 (c) ffcf1       DMBOOL       (enum: 1)
     ffcf4       DMUNS8       (ushort: 8)
 (d) ffcf2       DMBOOL       (enum: 1)
 (e) ffcf3       DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout   RND_OPTS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |     |   | |               | | |           |
  0 |        fid        |  a  | b |c|     ffcf4     |d|e|***********|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLrnd_opts

**Relation Description**
Redirecting number delivery (RND) Feature Options.

This relation gives Redirecting Number Delivery constructed feature option information. These constructed features can be assigned to standard ISDN terminals and analog terminal shared with standard BRI. The RND feature cannot be assigned to trunk groups or trunk members.

Only one RND feature can be assigned per DN/Multiline Hunt Group Member.

**Attribute: fid**

**Fullname:** feature identification

**Attribute Description** A BRCS constructed feature id consists of a unique identifier. For a Redirecting Number Delivery constructed feature, the feature id must have a class of FACBRCS and a subclass of SCL_FEAT.

**Attribute: act_type**

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**Fullname:** activation type

**Attribute Description** Method of feature activation. This is an enumeration of type DMmc_actyp. This feature is not able to be activated (customer cannot activate via a dialed code or feature button) for 5E8 so that act_type always has the value ACTNONE. Future software releases may allow this feature to be activated via dialed codes or feature buttons.

**Attribute: deact_type**

**Fullname:** deactivation type

**Attribute Description** Method of feature deactivation. This is an enumeration of type DMmc_dctyp. This feature is not able to be deactivated (customer cannot deactivate via a dialed code or feature button) for 5E8 so that deact_type always has the value DCTNONE. Future software releases may allow this feature to be deactivated via dialed codes or feature buttons.

**Attribute: ffcf1**

**Fullname:** bit reserved for future special feature use

**Attribute Description** Not assigned yet.

**Attribute: ffcf2**

**Fullname:** bit reserved for future special feature use

**Attribute Description** Not assigned yet.

**Attribute: ffcf3**

**Fullname:** bit reserved for future special feature use

**Attribute Description** Not assigned yet.

**Attribute: ffcf4**

**Fullname:** unsigned 8 reserved for future special feature use

**Attribute Description** Not assigned yet.

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# ROTL_CB

## 1. Description

Contains a key which is used to lookup call back number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 2 |

## 3. Field Layout

```
ROTL_CB     relid = 84    DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     carot_code  DMCHR        (char)  <--- key
 (a) mode        DMMODE       (enum: 2)
     carrid      DMCARRID     (array [ 4 ] of char )
     call_back_num  DMDN         (struct)  <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
            User Tuple Layout   ROTL_CB
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |   |           |                               |
  0 |   carot_code  | a |***********|             carrid            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  4 |             carrid            |*******************************|
    |===============+======== call_back_num ========+===============|
    |       |       |                                               |
  8 | digcnt|*******|                       dn                      |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                               dn                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                               dn                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                               dn                              |
    |===============+===============+===============+===============|
       ( 24 bytes )
     carot_code  DMCHR        (char)  <--- key
 (a) mode        DMMODE       (enum: 2)
     carrid      DMCARRID     (array [ 4 ] of char )
     call_back_num  DMCDN        (struct)  <--- compacted
         dig8        DMUNS4       (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
```

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```
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
         Compacted Tuple Layout    ROTL_CB
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |   |           |                               |
 0 |   carot_code  | a |***********|             carrid            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
 4 |             carrid            |*******************************|
   |===============+======== call_back_num ========+===============|
   |       |       |       |       |       |       |       |       |
 8 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
12 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
   |===============+===============+===============+===============|
   |                                                               |
16 |***************************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |***************************************************************|
   |---------------+---------------+---------------+---------------|
     ( 24 bytes )
    carot_code  DMCHR        (char)  <--- key
(a) mode        DMMODE       (enum: 2)
    carrid      DMCARRID     (array [ 4 ] of char )
    call_back_num  DMCDN        (struct)  <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
```

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```
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
          Stored Tuple Layout      ROTL_CB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |   |           |                               |
  0 |   carot_code  | a |***********|             carrid            |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  4 |             carrid            |*******************************|
    |===============+======== call_back_num ========+===============|
    |       |       |       |       |       |       |       |       |
  8 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
 12 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
    |===============+===============+===============+===============|
       ( 16 bytes )
```

## 4. Population Rules for RLrotl_cb

**Relation Description**
Remote office test line - call back (ROTL_CB).

Remote office test line - contains a key which is used to lookup call back number. The RC and VER views affected are RC_ROTL and VER_ROTL.

**Attribute: carot_code**

**Fullname:** ROTL - CAROT code

**Attribute Description** Call back code passed in by CAROT, to get call back number.

**Attribute: call_back_num**

**Fullname:** Structure for call back total digits and DN

**Attribute Description** Total number of digits in directory number and DN structure.

**Attribute: call_back_num.digcnt**

**Fullname:** call back digits in DN

**Attribute Description** Total number of digits in directory number.

**Attribute: call_back_num.dn**

**Fullname:** Call back directory number.

**Attribute Description** ROTL - call back directory number.

**Attribute: carrid**

**Fullname:** Carrier id.

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**Attribute Description** Indicates the carrier through which a call back to a CAROT will be routed if the DN is outside the LATA. It must be a 4 digit character string where each of the characters can be '0' through '9'. The carrier ID value must be an existing one in the RLfc_carr relation.

**Attribute: mode**

**Fullname:** Mode type.

**Attribute Description** ROTL - mode type.

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# RPCU2NDN

## 1. Description

This WCTX relation contains the Radio Port Control Unit (RPCU) to the NESS interface directory number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution type | FR |
| relation type | DBSTATIC |
| trigger function | TMrpcudeltg |
| insert trigger | DBNO |
| update trigger | DBNO |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
RPCU2NDN    relid = 2231  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     rpcu_id     DMRPCUID     (ushort)     <--- key
     rpcu_idx    DMRPCU_IDX   (ushort: 7)
     mwibtn      DMMWIBTN     (ushort: 8)
     rpcu_grpid  DMRPCU_GRP   (ushort: 8)
     ndn1        DMDN10_BCD   (struct)
         dn0         DMBCD        (ushort: 4)
         dn1         DMBCD        (ushort: 4)
         dn2         DMBCD        (ushort: 4)
         dn3         DMBCD        (ushort: 4)
         dn4         DMBCD        (ushort: 4)
         dn5         DMBCD        (ushort: 4)
         dn6         DMBCD        (ushort: 4)
         dn7         DMBCD        (ushort: 4)
         dn8         DMBCD        (ushort: 4)
         dn9         DMBCD        (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
     ndn2        DMDN10_BCD   (struct)
         dn0         DMBCD        (ushort: 4)
         dn1         DMBCD        (ushort: 4)
         dn2         DMBCD        (ushort: 4)
         dn3         DMBCD        (ushort: 4)
         dn4         DMBCD        (ushort: 4)
         dn5         DMBCD        (ushort: 4)
         dn6         DMBCD        (ushort: 4)
         dn7         DMBCD        (ushort: 4)
         dn8         DMBCD        (ushort: 4)
         dn9         DMBCD        (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
     ndn3        DMDN10_BCD   (struct)
         dn0         DMBCD        (ushort: 4)
         dn1         DMBCD        (ushort: 4)
         dn2         DMBCD        (ushort: 4)
         dn3         DMBCD        (ushort: 4)
```

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```
        dn4         DMBCD        (ushort: 4)
        dn5         DMBCD        (ushort: 4)
        dn6         DMBCD        (ushort: 4)
        dn7         DMBCD        (ushort: 4)
        dn8         DMBCD        (ushort: 4)
        dn9         DMBCD        (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
    ndn4        DMDN10_BCD   (struct)
        dn0         DMBCD        (ushort: 4)
        dn1         DMBCD        (ushort: 4)
        dn2         DMBCD        (ushort: 4)
        dn3         DMBCD        (ushort: 4)
        dn4         DMBCD        (ushort: 4)
        dn5         DMBCD        (ushort: 4)
        dn6         DMBCD        (ushort: 4)
        dn7         DMBCD        (ushort: 4)
        dn8         DMBCD        (ushort: 4)
        dn9         DMBCD        (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
    ndn5        DMDN10_BCD   (struct)
        dn0         DMBCD        (ushort: 4)
        dn1         DMBCD        (ushort: 4)
        dn2         DMBCD        (ushort: 4)
        dn3         DMBCD        (ushort: 4)
        dn4         DMBCD        (ushort: 4)
        dn5         DMBCD        (ushort: 4)
        dn6         DMBCD        (ushort: 4)
        dn7         DMBCD        (ushort: 4)
        dn8         DMBCD        (ushort: 4)
        dn9         DMBCD        (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        User, Compacted and Stored Tuple Layout   RPCU2NDN
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |               |               | |
 0 |            rpcu_id            |   rpcu_idx    |     mwibtn    |*|
   |---------------+---------------+---------------+---------------|
   |               |                                               |
 4 |   rpcu_grpid  |***********************************************|
   |===============+============  ndn1 ============+===============|
   |       |       |       |       |       |       |       |       |
 8 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |                                       |
12 |  dn8  |  dn9  | digcnt|***************************************|
   |===============+============  ndn2 ============+===============|
   |       |       |       |       |       |       |       |       |
16 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |                                       |
20 |  dn8  |  dn9  | digcnt|***************************************|
   |===============+============  ndn3 ============+===============|
   |       |       |       |       |       |       |       |       |
```

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```
 24 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |-------+-------+-------+-------+-------+-------+-------+-------|
    |       |       |       |                                       |
 28 |  dn8  |  dn9  | digcnt|***************************************|
    |=======+=======+=======  ndn4 =======+=======+=======+=======|
    |       |       |       |       |       |       |       |       |
 32 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |-------+-------+-------+-------+-------+-------+-------+-------|
    |       |       |       |                                       |
 36 |  dn8  |  dn9  | digcnt|***************************************|
    |=======+=======+=======  ndn5 =======+=======+=======+=======|
    |       |       |       |       |       |       |       |       |
 40 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |-------+-------+-------+-------+-------+-------+-------+-------|
    |       |       |       |                                       |
 44 |  dn8  |  dn9  | digcnt|***************************************|
    |=======+=======+=======+=======+=======+=======+=======+=======|
      ( 48 bytes )
domain alRPCU2NDN struct  (5 sub-attributes)
        rpcu_id     unsigned short (ushort)
        rpcu_idx    .14.fake     (ushort: 7)
        mwibtn      .15.fake     (ushort)
        rpcu_grpid  .16.fake     (ushort)
        ndn         .17.fake     (array [ 5 ] of .0fake )
            dn0         .0.fake      (ushort: 4)
            dn1         .1.fake      (ushort: 4)
            dn2         .2.fake      (ushort: 4)
            dn3         .3.fake      (ushort: 4)
            dn4         .4.fake      (ushort: 4)
            dn5         .5.fake      (ushort: 4)
            dn6         .6.fake      (ushort: 4)
            dn7         .7.fake      (ushort: 4)
            dn8         .8.fake      (ushort: 4)
            dn9         .9.fake      (ushort: 4)
            digcnt      .10.fake     (uchar: 4)

        Structure Layout      alRPCU2NDN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |             |               | |
  0 |            rpcu_id              |   rpcu_idx  |     mwibtn    |*|
    |---------------+---------------+---------------+---------------|
    |                 |                                             |
  4 |    rpcu_grp     |*********************************************|
    |=================+===========  ndn[0] ===========+===============|
    |       |       |       |       |       |       |       |       |
  8 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |-------+-------+-------+-------+-------+-------+-------+-------|
    |       |       |       |                                       |
 12 |  dn8  |  dn9  | digcnt|***************************************|
    |=======+=======+=======  ndn[1] =======+=======+=======+=======|
    |       |       |       |       |       |       |       |       |
 16 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
```

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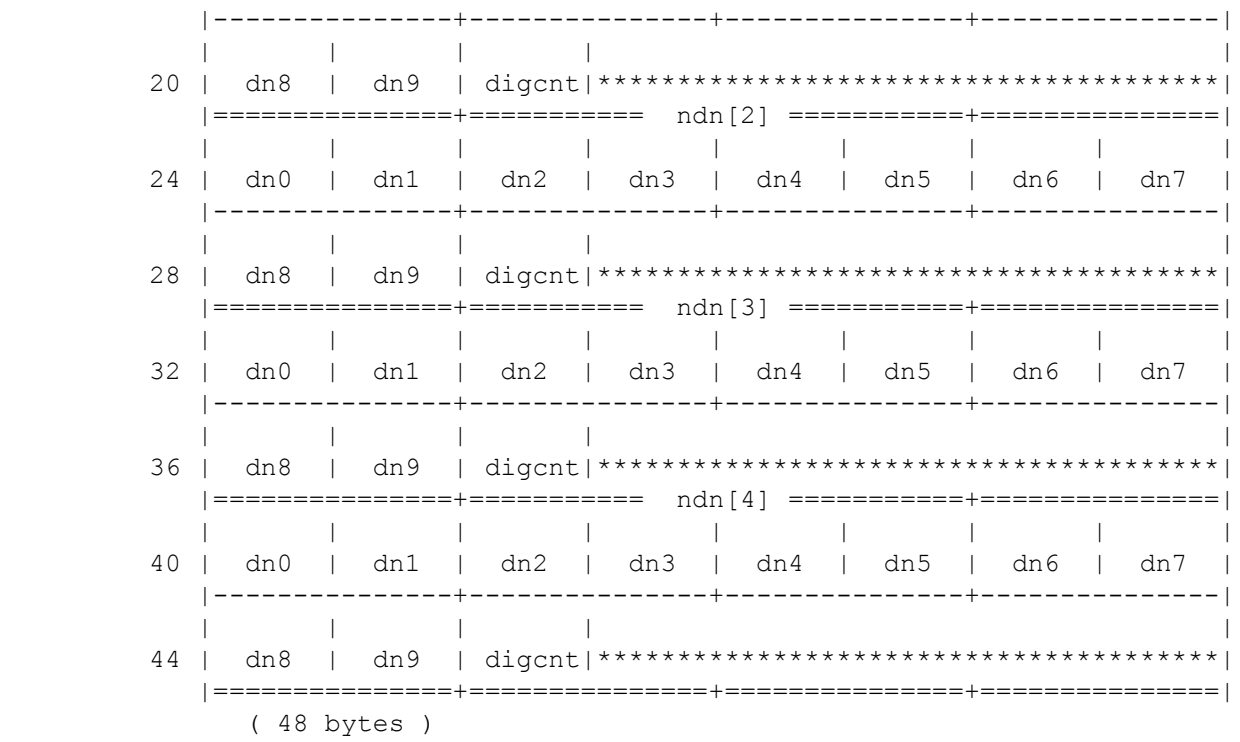

( 48 bytes )

## 4. Population Rules for RLrpcu2ndn

**Relation Description**
RPCU to NESS Interface DNs.

This WIRELESS Centrex (WCTX) relation contains the radio port control unit (RPCU) to NESS interface Directory Number translation.

**Attribute: rpcu_id**

**Fullname:** Radio Port Control Unit Identifier

**Attribute Description** Identifies the radio equipment.

**Attribute: rpcu_idx**

**Fullname:** Index into the RPCU Data

**Attribute Description** Index used by TM to maintain a RPCU OOS list.

**Attribute: rpcu_grpid**

**Fullname:** RPCU Group Identifier

**Attribute Description** Identifies a group of RPCUs in a registration area.

**Attribute: mwibtn**

**Fullname:** Message waiting indicator feature button number.

**Attribute Description** Used to provision a logical button location on the user's handset for

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indicating to the user the presence of a waiting message on their message service system.

**Attribute: ndn1,ndn2,ndn3,ndn4,ndn5**

**Fullname:** 10 Digit NESS Interface DNs

**Attribute Description** The NESS interface DNs are those PCS Interfaces DNs that have the NESS BRCS feature.

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# RPCU2REG

## 1. Description

This relation contains the registration areas served by a given RPCU.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution type | FR |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
RPCU2REG    relid = 2583  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     rpcu_id     DMRPCUID     (ushort)     <--- key
     wspid       DMWSPID      (ushort)
     regcod1     DMUNS12      (ushort: 12)
     regcod2     DMUNS12      (ushort: 12)
     regcod3     DMUNS12      (ushort: 12)
     regcod4     DMUNS12      (ushort: 12)
     regcod5     DMUNS12      (ushort: 12)
     regcod6     DMUNS12      (ushort: 12)
     regcod7     DMUNS12      (ushort: 12)
     regcod8     DMUNS12      (ushort: 12)
     regcod9     DMUNS12      (ushort: 12)
     regcod10    DMUNS12      (ushort: 12)
     regcod11    DMUNS12      (ushort: 12)
     regcod12    DMUNS12      (ushort: 12)
     regcod13    DMUNS12      (ushort: 12)
     regcod14    DMUNS12      (ushort: 12)
     regcod15    DMUNS12      (ushort: 12)
     regcod16    DMUNS12      (ushort: 12)
     regcod17    DMUNS12      (ushort: 12)
     regcod18    DMUNS12      (ushort: 12)
     regcod19    DMUNS12      (ushort: 12)
     regcod20    DMUNS12      (ushort: 12)
     regcod21    DMUNS12      (ushort: 12)
     regcod22    DMUNS12      (ushort: 12)
     regcod23    DMUNS12      (ushort: 12)
     regcod24    DMUNS12      (ushort: 12)
     regcod25    DMUNS12      (ushort: 12)
     regcod26    DMUNS12      (ushort: 12)
     regcod27    DMUNS12      (ushort: 12)
     regcod28    DMUNS12      (ushort: 12)
     regcod29    DMUNS12      (ushort: 12)
     regcod30    DMUNS12      (ushort: 12)
     regcod31    DMUNS12      (ushort: 12)
     regcod32    DMUNS12      (ushort: 12)
         User, Compacted and Stored Tuple Layout   RPCU2REG
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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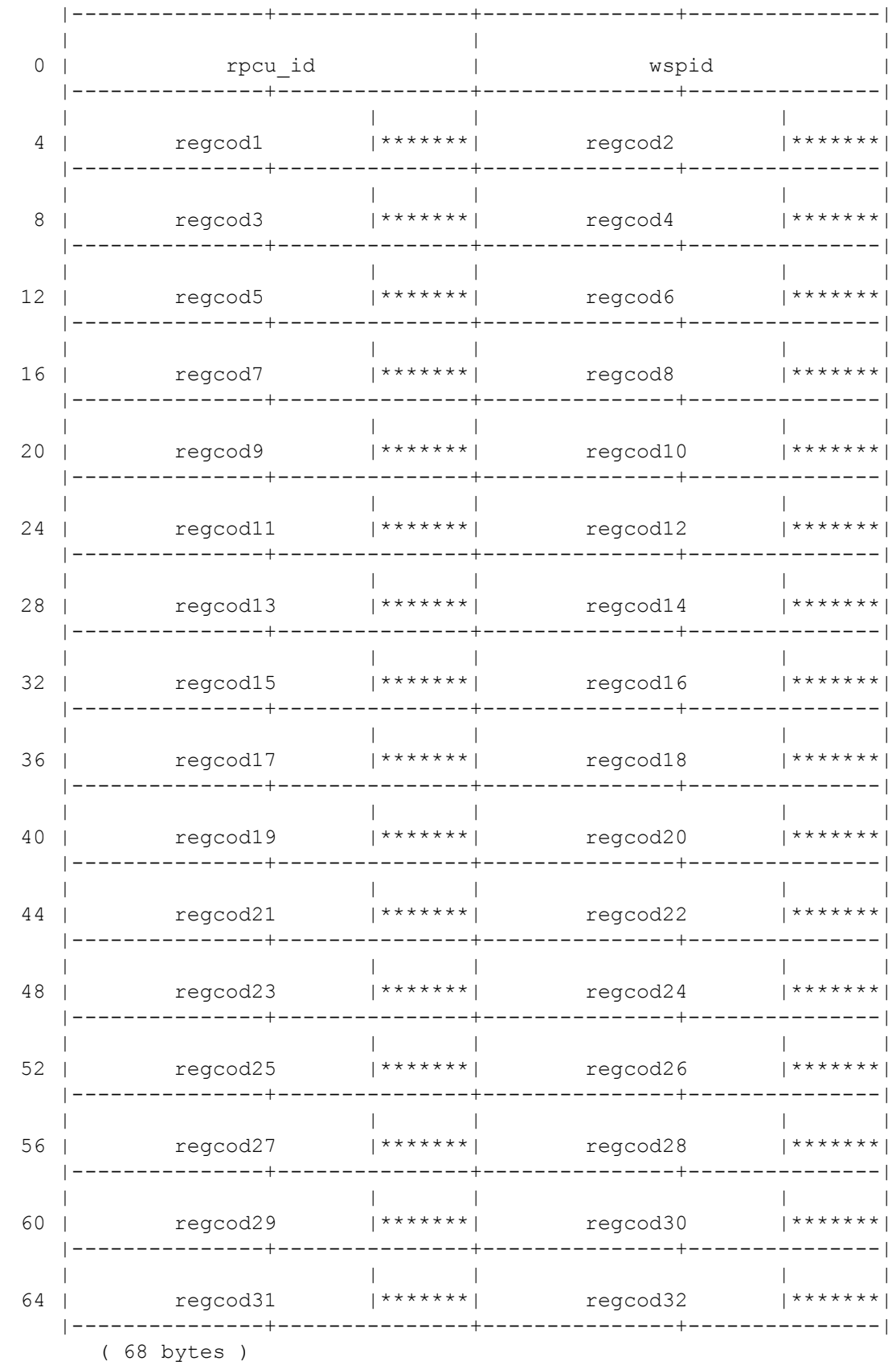


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## 4. Population Rules for RLrpcu2reg

**Relation Description**
RPCU to the registration area.

This Air Extension(SM) relation contains the RPCU to the registration area mapping.

**Attribute: rpcu_id**

**Fullname:** RPCU Identifier

**Attribute Description** It uniquely identifies the RPCU.

**Attribute: wspid**

**Fullname:** Air Extension(SM) Service Provider ID

**Attribute Description** Air Extension(SM) service provider identifier

**Attribute: regcod[*]**

**Fullname:** Registration Area Code

**Attribute Description** It uniquely identifies the registration area code within a service provider.

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# RPCU2SM

## 1. Description

This WCTX relation contains the RPCU ID to the WNC SM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| relation type | DBSTATIC |
| distribution type | LP |
| application type | PSA |

## 3. Field Layout

```
RPCU2SM     relid = 2220  DBSTATIC   DBACC_HASH  DBPRAM    LP      PSA
     rpcu_id     DMRPCUID     (ushort)     <--- key
     sm          DMSM         (ushort: 8)
         User, Compacted and Stored Tuple Layout    RPCU2SM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |               |               |
  0 |            rpcu_id             |       sm      |***************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLrpcu2sm

**Relation Description**
RPCU TO SM.

This WCTX relation contains the radio port control unit (RPCU) to the Switching Module (SM) number data.

**Attribute: rpcu_id**

**Fullname:** Radio Port Control Unit Identifier

**Attribute Description** Identifies the radio equipment.

**Attribute: sm**

**Fullname:** The switch module number.

**Attribute Description** This is the switching module number the VLR data will be mapped to.

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# RPMA

## 1. Description

This SM relation contains information defining remote site. Given a unit number, unittype, scan point, RLrpma, relation will provide details of scan point. This relation replaces RLrpma as per Remote Access Interface Unit doc.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 756 |
| expected tuples in relation | 250 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | HMrpma_trg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| permutation type | perm |

## 3. Field Layout

```
RPMA        relid = 2751  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     unitnum     DMUNITNO     (ushort: 8)     <--- key
     unittype    DMUNITTYPE   (enum: 7)     <--- key
 (a) in_use      DMBOOL       (enum: 1)
 (b) nrm_stat    DMPNT_STAT   (enum: 3)
 (c) alm_lvl     DMHMSC_ALM   (enum: 3)
     point       DMUNS3       (ushort: 3)     <--- key
     tty_name    DMCHAR20     (array [ 20 ] of char )
     mcc_name    DMCHR8       (array [ 8 ] of char )
         User, Compacted and Stored Tuple Layout   RPMA
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               | |     |     |     |             |
  0 |    unitnum    |   unittype    |a|  b  |  c  |point|*************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            tty_name                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                            tty_name                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                            tty_name                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                            tty_name                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                            tty_name                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 24 |                            mcc_name                           |
```

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```
    | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                    |
 28 |                            mcc_name                                |
    |---------------+---------------+---------------+--------------------|
       ( 32 bytes )
```

## 4. Population Rules for RLrpma

**Relation Description**
Remote Peripheral (RP) Miscellaneous Alarm Data.

Each tuple in this relation identifies "miscellaneous" scan points (or "alarms") supported on RP such as RAIU. Scan points on remote peripherals are typically connected in duplex fashion. but simplex operation is also supported. Regardless of mode of operation (duplex or simplex), number of scan point supported do not change.

Note that RAIU unit is allowed on SM-2000 only.

**Attribute: unitnum**

**Fullname:** Unit number of Remote Peripheral

**Attribute Description** This is a key attribute. This identifies a Remote Peripheral (RP) unit equipped capable of providing miscellaneous scan points.

**Attribute: unittype**

**Fullname:** Unit type of Remote Peripheral (eg. RAIU etc.).

**Attribute Description** This is a key attribute. This identifies unit type of the RP providing miscellaneous scan points.

**Attribute: point**

**Fullname:** Scan point number

**Attribute Description** This is a key attribute. This identifies one of the miscellaneous scan points. For RAIU case range of this key is {0 through 5}. On RAIU {6 through 7} are reserved for Fan and Fuse scan points.

**Attribute: in_use**

**Fullname:** Scan point operation

**Attribute Description** This attribute indicates whether or not the specified scan point is operational. DBYES indicates that the scan point is operational; DBNO indicates that the scan point is not operational.

**Attribute: nrm_stat**

**Fullname:** Scan point normal state

**Attribute Description** This attribute indicates the normal state of the scan point. DBOPEN indicates that the scan point is connected to a device having electro-mechanical contacts which are in the open-circuit state while the specific alarm condition is not present. DBCLOSED indicates that the scan point is connected to a device having contacts which are in the closed-circuit state while the specific alarm condition is not present.

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**Attribute: mcc_name**

**Fullname:** Scan point label for MCC display use

**Attribute Description** This attribute contains an office-assignable label consisting of 8 ASCII characters, which are to be displayed on an MCC screen (such as, the 1640 page). If the user inputs less than 8 characters, the remaining ones should be automatically populated by Recent Change as null characters. It shall be permissible for the user to define a "null" (blank) label by choosing to enter no characters through RC/V.

**Attribute: tty_name**

**Fullname:** Scan point label for ROP output report use

**Attribute Description** This attribute contains an office-assignable label consisting of 20 ASCII characters, which are to appear in scan point status output reports. If the user inputs less than 20 characters, the remaining ones should be automatically populated by Recent Change as null characters. It shall be permissible for the user to define a "null" (blank) label by choosing to enter no characters through RC/V.

**Attribute: alm_lvl**

**Fullname:** Scan point alarm level

**Attribute Description** This attribute defines the severity level of the alarm to be issued when the scan point enters the "alarming" state.

**Defines:**
"db/DMunitno.h",
"db/DBtladefs.h"

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# RPSITE

## 1. Description

This relation contains configuration information about peripherals at remote sites. This relation replaces RLrisit.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 126 |
| expected number of tuples | 50 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | CIO |
| relation type | DBSTATIC |
| key shift | 0 |
| trigger function | TMrel_trig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
RPSITE      relid = 2752  DBSTATIC   DBACC_CIND  DBPRAM    LPFG    CIO
     risitid     DMRISITID    (ushort: 10)     <--- key
     text        DMTEXT15     (array [ 15 ] of char )
     rp_cnt      DMUNS6       (ushort: 6)
     sm_alm      DMMODULE     (ushort: 8)
     rp_alm      DMUNITNO     (ushort: 8)
 (a) ras_eqp     DMBOOL       (enum: 1)
 (b) ras_dplx    DMBOOL       (enum: 1)
     rp0         DMSMRP       (struct)
         sm          DMMODULE     (ushort: 8)
         rp_unitno   DMUNITNO     (ushort: 8)
         rp_unittype  DMUNITTYPE   (enum: 7)
         sg0_picb    DMPICB       (ushort)
     rp1         DMSMRP       (struct)
         sm          DMMODULE     (ushort: 8)
         rp_unitno   DMUNITNO     (ushort: 8)
         rp_unittype  DMUNITTYPE   (enum: 7)
         sg0_picb    DMPICB       (ushort)
     rp2         DMSMRP       (struct)
         sm          DMMODULE     (ushort: 8)
         rp_unitno   DMUNITNO     (ushort: 8)
         rp_unittype  DMUNITTYPE   (enum: 7)
         sg0_picb    DMPICB       (ushort)
     rp3         DMSMRP       (struct)
         sm          DMMODULE     (ushort: 8)
         rp_unitno   DMUNITNO     (ushort: 8)
         rp_unittype  DMUNITTYPE   (enum: 7)
         sg0_picb    DMPICB       (ushort)
     rp4         DMSMRP       (struct)
         sm          DMMODULE     (ushort: 8)
         rp_unitno   DMUNITNO     (ushort: 8)
         rp_unittype  DMUNITTYPE   (enum: 7)
```

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```
        sg0_picb    DMPICB       (ushort)
    rp5         DMSMRP       (struct)
        sm          DMMODULE     (ushort: 8)
        rp_unitno   DMUNITNO     (ushort: 8)
        rp_unittype  DMUNITTYPE   (enum: 7)
        sg0_picb    DMPICB       (ushort)
    rp6         DMSMRP       (struct)
        sm          DMMODULE     (ushort: 8)
        rp_unitno   DMUNITNO     (ushort: 8)
        rp_unittype  DMUNITTYPE   (enum: 7)
        sg0_picb    DMPICB       (ushort)
    rp7         DMSMRP       (struct)
        sm          DMMODULE     (ushort: 8)
        rp_unitno   DMUNITNO     (ushort: 8)
        rp_unittype  DMUNITTYPE   (enum: 7)
        sg0_picb    DMPICB       (ushort)
    slim_ri     DMRTEIDX     (ushort: 14)
    tstp_mod    DMMODULE     (ushort: 8)
        User, Compacted and Stored Tuple Layout RPSITE
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                   |           |                               |
 0 |      risitid      |***********|              text             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 4 |                               text                            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 8 |                               text                            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
12 |                               text                            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |               |           |   |               |               |
16 |      text     |   rp_cnt  |***|     sm_alm    |     rp_alm    |
   |---------------+---------------+---------------+---------------|
   | | |                                                           |
20 |a|b|***********************************************************|
   |===============+============= rp0 =============+===============|
   |               |               |             |                 |
24 |       sm      |   rp_unitno   | rp_unittype |*****************|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
28 |            sg0_picb           |*******************************|
   |===============+============= rp1 =============+===============|
   |               |               |             |                 |
32 |       sm      |   rp_unitno   | rp_unittype |*****************|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
36 |            sg0_picb           |*******************************|
   |===============+============= rp2 =============+===============|
   |               |               |             |                 |
40 |       sm      |   rp_unitno   | rp_unittype |*****************|
```

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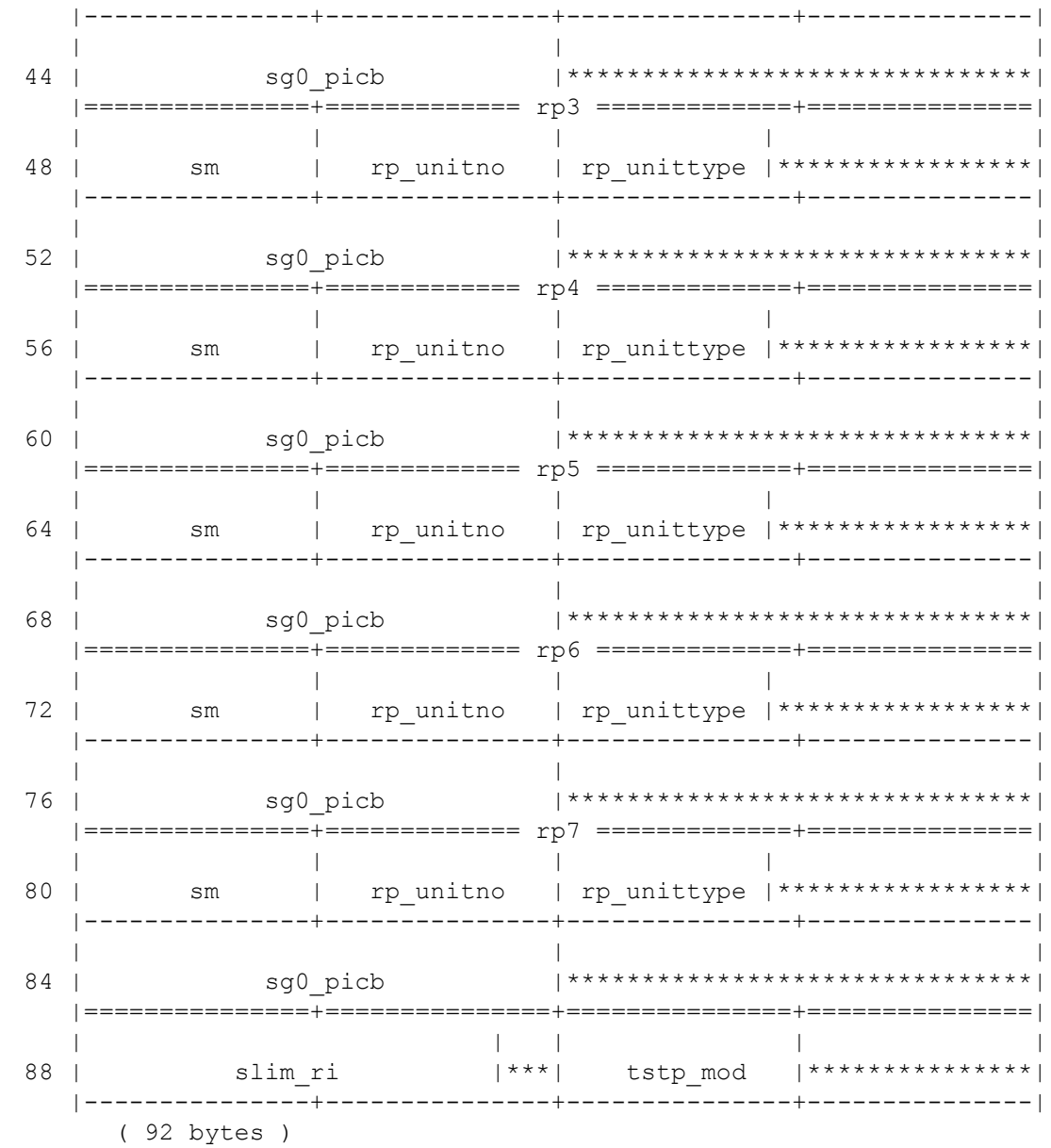


## 4. Population Rules for RLrpsite

**Relation Description**
Configuration Information about Remote Peripherals (RP) at remote site.

Poprules in this relation apply to RP such as RISLU and RAIU.

This relation is modeled after the RSM RLclidat relation. Each tuple in this relation represents a single remote site. A remote site can have up to eight RPs. A remote site may be hosted by several switching modules; also a switching module may host several remote sites.

**Attribute: risitid**

**Fullname:** RP site number

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**Attribute Description** This is the identification number of the set of RPs which comprise the RP site. RP site numbers may range from 500 through 999. This range (see DMRISITID) is defined so as not to conflict with RSM site numbers (the latter are currently restricted to the range 1-174).

**Attribute: text**

**Fullname:** Title Of The Site

**Attribute Description** This attribute holds a string of up to 15 characters. It is a text identification of the RP site (such as, name of town) and is used to title MCC display pages. If there are less than 15 characters the string should be padded with binary zeros.

**Attribute: rp_cnt**

**Fullname:** Number Of RPs At The Site

**Attribute Description** This attribute holds the number of RPs at the site, and must be less than or equal to MAXRISITESZ.

**Attribute: sm_alm**

**Fullname:** Number of SM Hosting RP With Building/Power Alarms

**Attribute Description** This attribute holds the module number (1-192) of the module that hosts the remote peripheral responsible for building and power alarms at the RP site. The following attribute (rp_alm) identifies the RP by unit number. Although every RP scans its own fan and fuse alarms, one RP per RP site must be selected to scan power and battery alarms for the RP site. This same RP will also be used to scan building and miscellaneous (office defined) alarms if the RP site is equipped with the optional Link Adapter Unit (LAU) Remote Alarm Section (RAS). This is only valid for RISLU's and RAIU's.

**Attribute: rp_alm**

**Fullname:** Unit Number Of The RP Responsible For Building/Power Alarms

**Attribute Description** This attribute holds the RP unit number relative to switching module sm_alm of the RP responsible for building and power alarms at the RP site (see the previous description of sm_alm).

The RP responsible for Building/Power alarm must be of RISLU type. RAIU unit does not have dedicated Building/Power scan points hence it can not report Building/Power alarms.

**Attribute: ras_eqp**

**Fullname:** Is RP Site Equipped With A Remote Alarm Section (RAS)?

**Attribute Description** This attribute is set to DBYES or DBNO according to whether the RP site is equipped with an RAS. If equipped, the RAS will be hosted by the RP indicated by the pair of attributes sm_alm and rp_alm.

**Attribute: ras_dplx**

**Fullname:** IS Site Equipped with (optional) RAS with 2 links or ATA cards connected to host SM?

**Attribute Description** This attribute is set to DBYES if the RP site is equipped with 2 links or ATA cards connected back to the HOST SM. This attribute is set to DBNO if there is only 1 link or ATA

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card attached to the HOST SM. This attribute is also set to DBNO if the RAS is unequipped at the RP site (see "ras_eqp").

**Attribute: slim_ri**

**Fullname:** SLIM routing index for Test Application Pack

**Attribute Description** For a logical remote which has a Test AP circuit assigned, this unique SLIM route index should be populated. Each of these indices are associated with a unique Port Group. The valid range for SLIM ROUTE INDICES is from 0 to 8191. The route indices can be numbered randomly. For every unique slim_ri, the route index must exist in the relation RT_ROUTING. The group number and type found in RT_ROUTING must exist in the relations GROUP_PORT and PORT_GROUP. In GROUP_PORT and PORT_GROUP, a logical test port must exist for every SLIM circuit marked equipped and operational. The group type in GROUP_PORT and PORT_GROUP must be TM_TRK. For every logical test port, information must be found in the SM relation FC_PORTTYP. The key to the information is the member of GROUP_PORT and PORT_GROUP. The service class, hunt, and lp_type fields in FC_PORTTYP must equal TM_SLIM, DBYES, and PCSLIM respectively. The SLIM ROUTE INDEX must be zero if the site does not contain a metallic Test Application pack.

**Attribute: rp[*]**

**Fullname:** SM/RP Numbers Of The Nth RP At The Site

**Attribute Description** These remote member attributes are populated so as to identify the RPs at the RP site, in terms of the hosting SM number (1-192) and the RISLU unit number.

The rp[0-7] attributes may be listed in any order (no correlation with any physical property is implied). Whenever possible, assigned attribute pairs should be consecutive starting with rp0. If holes develop through degrowth, they should be filled when growing the next RISLU. The rp[0-7] attributes can be filled in with any combination of RPs.

**Defines:** "db/DBtladefs.h"

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# RPTRNSCV

## 1. Description

Revertive pulsing transceiver circuit names.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 64 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
RPTRNSCV    relid = 496   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     circuit     DMCIRCUIT    (ushort)  <--- key
     dummy       DMDUMMY      (ushort: 8)
         User, Compacted and Stored Tuple Layout   RPTRNSCV
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |             circuit           |     dummy     |***************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLrptrnscv

**Relation Description**
Revertive Pulsing Transceiver circuit names.

This relation contains one tuple for each equipped revertive pulse circuit (PC_RVPT) found in the cktdata relation for the IM. The key field, circuit, is constructed in the same manner as is done for the cktdata tuple.

**Attribute: circuit**

**Fullname:** Circuit name

**Attribute Description** Circuit name of equipped Revertive Pulsing circuit

**Attribute: dummy**

**Fullname:** Dummy field

**Attribute Description** Always zero

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# RR_DN

## 1. Description

OSPS non-T&A interflow (reroute) destination data table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
RR_DN       relid = 1150  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     tgroup      DMSHORT      (short)  <--- key
     dest_x      DMDESTIDX    (ushort: 12)  <--- key
     rr_dest     DMDESTIDX    (ushort: 12)
 (a) int_destid  DMUNS5       (ushort: 5)  <--- key
         User, Compacted and Stored Tuple Layout  RR_DN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                       |       |
  0 |              tgroup            |         dest_x        |*******|
    |---------------+---------------+---------------+---------------|
    |                        |       |         |                     |
  4 |         rr_dest        |*******|    a    |*********************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLrr_dn

**Relation Description**
Reroute Destination.

Table for selecting a new destination index for rerouted calls based on the incoming destination index, internal destination ID, and the incoming trunk group.

**Attribute: dest_x**

**Fullname:** Destination Index

**Attribute Description** Destination index which comes from digit analysis or from intercept.

**Attribute: int_destid**

**Fullname:** Internal reroute Destination ID number

**Attribute Description** Indicates the destination ID of the switch that the call is being rerouted to.

**Attribute: tgroup**

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**Fullname:** Trunk Group

**Attribute Description** The incoming call's incoming trunk group number which is gotten from RLrt_trkg.

**Attribute: rr_dest**

**Fullname:** Reroute Destination index

**Attribute Description** Destination index for the switch that DA or Non-ISP calls to a VDT will be rerouted to.

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# RSM2HTU

## 1. Description

This relation maps the RSM number to the unit number of Host Transport Unit (HTU) of the HSM. It is the inverse of RLhtu2rsm. In addition, the relation contains the four control circuit names used for communication to the RSM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 30 |
| expected tuples in relation | 5 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
RSM2HTU     relid = 2937  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     rsm_num     DMMODULE     (ushort: 8)     <--- key
     htu_num     DMUNITNO     (ushort: 8)
     cts1_ckt    DMCIRCUIT    (ushort)
     cts2_ckt    DMCIRCUIT    (ushort)
     cts3_ckt    DMCIRCUIT    (ushort)
     cts4_ckt    DMCIRCUIT    (ushort)
         User, Compacted and Stored Tuple Layout    RSM2HTU
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |    rsm_num    |    htu_num    |            cts1_ckt           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            cts2_ckt           |            cts3_ckt           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            cts4_ckt           |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
domain alRSM2HTU  struct  (3 sub-attributes)
         rsm_num     .2.fake      (ushort)
         htu_num     .3.fake      (ushort)
         cts_ckt     .4.fake      (array [ 4 ] of unsigned short )
                     Structure Layout     alRSM2HTU
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |    rsm_num    |    htu_num    |            cts_ckt           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                           cts_ckt                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  8 |            cts_ckt            |*******************************|
```

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```
|---------------+---------------+---------------+---------------|
   ( 12 bytes )
```

## 4. Population rules for RLrsm2htu

### Relation Description

Remote Switching Module to Host Transport Unit.
Maps the RSM module to the Host Transport Unit that it is connected to.
This relation is the inverse of RLhtu2rsm.

**Attribute:**
rsm_num
**Fullname:**
Remote Switching Module number.
**Attribute Description:**
This is the module number of a Remote Switching Module (RSM).

**Attribute:**
htu_num
**Fullname:**
Host Transport unit number.
**Attribute Description:**
This is the unit number of the Host Transport UNIT (HTU). An HTU is an "abstract" unit defined to host all the umbilicals going to a RSM. The value will be identical to the RSM offset defined in MODATT for an RSM.

**Attribute:**
cts1_ckt
**Fullname:**
Control Time Slot circuit for umbilical 1.
**Attribute Description:**
This is the control time slot circuit name carried on the host transport. There can be four of these circuits, 1 each carried on the first four umbilicals. They will all be located in this relation and are named:

- cts1_ckt -> Carried on umbilical 1
- cts2_ckt -> Carried on umbilical 2
- cts3_ckt -> Carried on umbilical 3
- cts4_ckt -> Carried on umbilical 4

They have all been placed in the relation for fast clink management (1 read will get all the control circuit names). With the control circuit names also used as keys in RLhmrsmcl, one more read will get the chdb for the control circuit.

**Attribute:**
cts2_ckt
**Fullname:**
Control Time Slot circuit for umbilical 2.

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**Attribute Description:**
See attribute "cts_ckt1".

**Attribute:**
cts3_ckt
**Fullname:**
Control Time Slot circuit for umbilical 3.
**Attribute Description:**
See attribute "cts_ckt1".

**Attribute:**
cts4_ckt
**Fullname:**
Control Time Slot circuit for umbilical 4.
**Attribute Description:**
See attribute "cts_ckt1".

**Defines:**
"db/DMcircuit.h"

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# RSMCHAN

## 1. Description

This relation provides the information for the RSM communication link.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 120 |
| expected tuple | 4 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | PCrsmchantrg |
| insert trigger | DBYES |
| update trigger | DBNO |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| ks key store | AUTO |

## 3. Field Layout

```
RSMCHAN     relid = 433   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     chdb_num    DMTSITS      (ushort)     <--- key, not stored
     hfac_id     DMCIRCUIT    (ushort)
     tsdb_num    DMCTS9       (ushort: 9)
         User and Compacted Tuple Layout    RSMCHAN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            chdb_num           |*******************************|
    |---------------+---------------+---------------+---------------|
    |                               |                 |             |
  4 |            hfac_id            |     tsdb_num    |*************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     hfac_id     DMCIRCUIT    (ushort)
     tsdb_num    DMCTS9       (ushort: 9)
           Stored Tuple Layout      RSMCHAN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                 |             |
  0 |            hfac_id            |     tsdb_num    |*************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population rules for RLrsmchan

### Relation Description

```
        RSM communication link
        Provides information for the RSM communication link.
        see main description.
        ;
end relation;
```

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**Attribute:**
chdb_num
**Fullname:**
Channel Data Block Number (Peripheral Side Time Slot) for the RSM communication link.
**Attribute Description:**
There is a one-to-one correspondence between tuples in this (RLRSMCHAN) relation, and tuples in RLHMRSMCL with a .comm_link attribute of DBYES and a circuit type not equal to PCHUMB_CTS. There are 2 attributes which link the corresponding tuples between relations:
- 'chdbnum' is a non-key attribute in RLHMRSMCL, and is used here as the key to RLRSMCHAN.
- 'hfac_id' is a non-key attribute in RLRSMCHAN (see separate attribute description here), and is used as the key to RLHMRSMCL.

So, one tuple must be equipped in this relation for each tuple in RLHMRSMCL with a .comm_link attribute of DBYES and a circuit type not equal to PCHUMB_CTS. Furthermore, this attribute must match the chdb_num attribute for each RLHMRSMCL tuple.

**Attribute:**
hfac_id
**Fullname:**
Circuit name of HSM DFI facility.
**Attribute Description:**
This attribute is of type DMCIRCUIT and must contain the name of a facility circuit, as determined from examining the associated RLHMRSMCL relation. As mentioned here in the 'chdb_num' attribute description, there is a one-to-one correspondence between tuples in this (RLRSMCHAN) relation, and tuples in RLHMRSMCL with a .comm_link attribute of DBYES and circuit type not equal to PCHUMB_CTS. 'hfac_id' is 1 of 2 attributes which link the corresponding tuples between relations.
'hfac_id' is a non-key attribute here in RLRSMCHAN used as the key to RLHMRSMCL. This tuple's hfac_id attribute must match the ckt_id attribute used as the key to the RLHMRSMCL tuple associated with this tuple's chdb_num.

**Attribute:**
tsdb_num
**Fullname:**
Time Slot Data Block Number (Network Side Time Slot) for the RSM communication link.
**Attribute Description:**
The field tsdb_num is of type DMCTS9 and will take a value from 0 to 511. The field tsdb_num

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should be two times the value of cts_even that is populated in RLMODATT for the RSM that is connected to TMS link 0 by the facility name in hfac_id. TMS link 0 is assigned to the hdfi_id connected to RSM DLTU unit 0, RSM facility 0, RDFI numbers 1 and 3. The field tsdb_num should be one more than two times the value of cts_odd that is populated in RLMODATT for the RSM that is connected to TMS link 1 by the facility name in hfac_id. TMS link 1 is assigned to the hfac_id connected to RSM DLTU unit 0, RSM facility 0, RDFI numbers 2 and 4.

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# RSMFAC_CON

## 1. Description

This relation maps the near end to the far end of an RSM umbilical. It uses the unit type, unit number, and circuit index so that it can map many different types of circuits.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 120 |
| expected tuples in relation | 9 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
RSMFAC_CON  relid = 2938  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     ckt_indx    DMCKTINDX    (ushort) <--- key
     fe_ckt_indx  DMCKTINDX    (ushort)
     unit        DMUNITNO     (ushort: 8) <--- key
     fe_module   DMMODULE     (ushort: 8)
     fe_unit     DMUNITNO     (ushort: 8)
     utype       DMUNITTYPE   (enum: 7) <--- key
     fe_utype    DMUNITTYPE   (enum: 7)
         User, Compacted and Stored Tuple Layout RSMFAC_CON
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            ckt_indx           |          fe_ckt_indx          |
    |---------------+---------------+---------------+---------------|
    |               |               |               |             | |
  4 |      unit     |   fe_module   |    fe_unit    |    utype    |*|
    |---------------+---------------+---------------+---------------|
    |             |                                               |
  8 |   fe_utype  |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population rules for RLrsmfac_con

**Relation Description**

Remote Switching Module facility connection.
Maps the near end to the far end for facilities used in an RSM complex.
Facilities can connect HSMs to RSMs and RSMs to RSMs. There will be
one tuple in this relation for each near end termination of a facility.
Given a tuple A, it's far end information should match a tuple in the
far end SM whose far end information matches tuple A's near end
information.

**Attribute:**

utype

**Fullname:**

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Unit type of near end.

**Attribute Description:**

This is the unit type as defined in cktdata of the facility connected to the near end.

**Attribute:**

unit

**Fullname:**

Unit number of near end.

**Attribute Description:**

This is the unit number as defined in cktdata of the facility connected to the near end.

**Attribute:**

ckt_indx

**Fullname:**

Circuit index of near end.

**Attribute Description:**

This is the circuit index as defined in cktdata of the facility connected to the near end.

**Attribute:**

fe_module

**Fullname:**

Far end module.

**Attribute Description:**

This is the module that is connected to the far end facility.

**Attribute:**

fe_utype

**Fullname:**

Far end unit type.

**Attribute Description:**

This is the unit type that is connected to the far end facility.

**Attribute:**

fe_unit

**Fullname:**

Far end unit number.

**Attribute Description:**

This is the unit number that is connected to the far end facility.

**Attribute:**

fe_ckt_indx

**Fullname:**

Far end circuit index.

**Attribute Description:**

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This is the circuit index that is connected to the far end facility.

**Defines:**

```
/* NONE */
```

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# RSMNTS

## 1. Description

Provides RSM communication link network control and timing (NCT) time slot information for every HDFI used for the RSM CTS.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 60 |
| expected tuples | 2 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | PCrsmntstrg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
RSMNTS      relid = 440   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     tsdb_num    DMCTS9       (ushort: 9)  <--- key
 (a) comm_link   DMBOOL       (enum: 1)
         User and Compacted Tuple Layout     RSMNTS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                 | |                                           |
  0 |     tsdb_num    |a|*******************************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
     tsdb_num    DMCTS9       (ushort: 9)  <--- key
 (a) comm_link   DMBOOL       (enum: 1)
           Stored Tuple Layout   RSMNTS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                 | |                                           |
  0 |     tsdb_num    |a|*******************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLrsmnts

**Relation Description**
RSM network time slot (RSMNTS).

Provides RSM communication link network control and timing (NCT) time slot information for every HDFI used for the RSM CTS.

**Attribute: tsdb_num**

**Fullname:** Time slot data block number (network side time slot) for the RSM communication link.

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**Attribute Description** There will be two entries in this relation for every RSM connected to the HSM. These 'tsdb_num' values correspond to the cts_even and cts_odd attributes in the RSM's RLmodatt tuple and are calculated by the following algorithm: Multiply RLmodatt.cts_even by 2 for one entry, multiply RLmodatt.cts_odd by 2 and add 1 for the other.

For example, if RSM 4 were subtending to an HSM, then for SM 4 in RLmodatt you might have the following: cts_even = 26 and cts_odd = 27. The RLrsmnts tuples populated for RSM 4 in the HSM would have tsdb_num (key) values of 52 (26 * 2) and 55 (27 * 2 + 1).

**Attribute: comm_link**

**Fullname:** RSM communication link NCT time slot indication

**Attribute Description** This field is DBYES if the 'tsdb_num' is used for an RSM communication link, DBNO otherwise.

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# RT_DNTRAN

## 1. Description

This relation contains the DN terminating translations.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 2100 |
| density | 51 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
RT_DNTRAN   relid = 56    DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL


     lport       DMLPORT      (ushort: 16)
     ltm_idx     DMLTM_IDX    (ulong: 16)
     caseindex   DMCASEMAX    (ushort: 9)
     lrn_idx     DMUNS7       (ushort: 7)
     vlr_sm      DMMODULE     (ushort: 8)
 (a) termclass   DMTERMCLASS  (enum: 4)
 (b) term_name   DMPARTY      (ushort: 4)
     pin4        DMBCD        (ushort: 4)
     pin3        DMBCD        (ushort: 4)
     pin2        DMBCD        (ushort: 4)
     pin1        DMBCD        (ushort: 4)
 (c) lpt_type    DMLPT_TYPE   (enum: 2)
 (d) mdn_rngpat  DMMDNDRING   (enum: 2)
 (e) client_typ  DMMSSCLIENT  (enum: 2)
 (f) deny_term   DMBOOL       (enum: 1)
 (g) calltrc     DMBOOL       (enum: 1)
 (h) denybv      DMBOOL       (enum: 1)
 (i) ucd_muph    DMBOOL       (enum: 1)
 (j) mctran      DMBOOL       (enum: 1)
 (k) ltsb_pt     DMBOOL       (enum: 1)
 (l) ltm_type    DMLTM_TYPE   (enum: 1)
 (m) no_hunt     DMBOOL       (enum: 1)
 (n) mdn_depend  DMBOOL       (enum: 1)
 (o) rdta_port   DMBOOL       (enum: 1)
 (p) ind_inwats  DMBOOL       (enum: 1)
 (q) scp_alw     DMBOOL       (enum: 1)
 (r) ncdt        DMBOOL       (enum: 1)
 (s) ffcf1       DMBOOL       (enum: 1)
 (t) ffcf2       DMBOOL       (enum: 1)
 (u) ffcf3       DMBOOL       (enum: 1)
     portname    DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     dn          DMLOCDN      (struct)  <--- key, compacted
```

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```
        noc          DMNOC        (ushort: 14)
        digits       DMLOCDIG     (array [ 4 ] of char )
           User Tuple Layout      RT_DNTRAN
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |              lport            |            ltm_idx            |
   |---------------+---------------+---------------+---------------|
   |                 |             |                 |       |     |
 4 |    caseindex    |   lrn_idx   |     vlr_sm      |   a   |  b  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |   |   |   | | | | | | | | | | |
 8 |  pin4 |  pin3 |  pin2 |  pin1 | c | d | e |f|g|h|i|j|k|l|m|n|o|
   |---------------+---------------+---------------+---------------|
   | | | | | | |                                                   |
12 |p|q|r|s|t|u|***************************************************|
   |===============+==========  portname ==========+===============|
   |                               |                |               |
16 |              member           |***************|     module    |
   |===============+=============  dn ==============+===============|
   |   |                           |                               |
20 |***|            noc            |              digits           |
   | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
24 |              digits           |*******************************|
   |===============+===============+===============+===============|
      ( 28 bytes )
```

```
    lport       DMLPORT      (ushort: 16)
    ltm_idx     DMLTM_IDX    (ulong: 16)
    caseindex   DMCASEMAX    (ushort: 9)
    lrn_idx     DMUNS7       (ushort: 7)
    vlr_sm      DMMODULE     (ushort: 8)
(a) termclass   DMTERMCLASS  (enum: 4)
(b) term_name   DMPARTY      (ushort: 4)
    pin4        DMBCD        (ushort: 4)
    pin3        DMBCD        (ushort: 4)
    pin2        DMBCD        (ushort: 4)
    pin1        DMBCD        (ushort: 4)
(c) lpt_type    DMLPT_TYPE   (enum: 2)
(d) mdn_rngpat  DMMDNDRING   (enum: 2)
(e) client_typ  DMMSSCLIENT  (enum: 2)
(f) deny_term   DMBOOL       (enum: 1)
(g) calltrc     DMBOOL       (enum: 1)
(h) denybv      DMBOOL       (enum: 1)
(i) ucd_muph    DMBOOL       (enum: 1)
(j) mctran      DMBOOL       (enum: 1)
(k) ltsb_pt     DMBOOL       (enum: 1)
(l) ltm_type    DMLTM_TYPE   (enum: 1)
(m) no_hunt     DMBOOL       (enum: 1)
(n) mdn_depend  DMBOOL       (enum: 1)
(o) rdta_port   DMBOOL       (enum: 1)
```

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```
(p) ind_inwats  DMBOOL       (enum: 1)
(q) scp_alw     DMBOOL       (enum: 1)
(r) ncdt        DMBOOL       (enum: 1)
(s) ffcf1       DMBOOL       (enum: 1)
(t) ffcf2       DMBOOL       (enum: 1)
(u) ffcf3       DMBOOL       (enum: 1)
    portname    DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    dn          DMKLOCDN     (struct)  <--- key, compacted
        noc         DMNOC        (ushort: 14)
        index       DMUNS14      (ushort: 14)
         Compacted Tuple Layout  RT_DNTRAN
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 0 |             lport               |            ltm_idx            |
   |---------------+---------------+---------------+---------------|
   |                 |             |               |       |       |
 4 |    caseindex    |   lrn_idx   |     vlr_sm    |   a   |   b   |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |   |   |   | | | | | | | | | | |
 8 |  pin4 |  pin3 |  pin2 |  pin1 | c | d | e |f|g|h|i|j|k|l|m|n|o|
   |---------------+---------------+---------------+---------------|
   | | | | | | |                                                   |
12 |p|q|r|s|t|u|***************************************************|
   |===============+==========  portname ==========+===============|
   |                                 |               |               |
16 |             member              |***************|     module    |
   |===============+=============  dn ==============+===============|
   |   |                             |                           |   |
20 |***|            noc              |           index           |***|
   |===============+===============+===============+===============|
   |                                                               |
24 |***************************************************************|
   |---------------+---------------+---------------+---------------|
      ( 28 bytes )


    lport       DMLPORT      (ushort: 16)
    ltm_idx     DMLTM_IDX    (ulong: 16)
    caseindex   DMCASEMAX    (ushort: 9)
    lrn_idx     DMUNS7       (ushort: 7)
    vlr_sm      DMMODULE     (ushort: 8)
(a) termclass   DMTERMCLASS  (enum: 4)
(b) term_name   DMPARTY      (ushort: 4)
    pin4        DMBCD        (ushort: 4)
    pin3        DMBCD        (ushort: 4)
    pin2        DMBCD        (ushort: 4)
    pin1        DMBCD        (ushort: 4)
(c) lpt_type    DMLPT_TYPE   (enum: 2)
(d) mdn_rngpat  DMMDNDRING   (enum: 2)
(e) client_typ  DMMSSCLIENT  (enum: 2)
```

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```
(f) deny_term   DMBOOL       (enum: 1)
(g) calltrc     DMBOOL       (enum: 1)
(h) denybv      DMBOOL       (enum: 1)
(i) ucd_muph    DMBOOL       (enum: 1)
(j) mctran      DMBOOL       (enum: 1)
(k) ltsb_pt     DMBOOL       (enum: 1)
(l) ltm_type    DMLTM_TYPE   (enum: 1)
(m) no_hunt     DMBOOL       (enum: 1)
(n) mdn_depend  DMBOOL       (enum: 1)
(o) rdta_port   DMBOOL       (enum: 1)
(p) ind_inwats  DMBOOL       (enum: 1)
(q) scp_alw     DMBOOL       (enum: 1)
(r) ncdt        DMBOOL       (enum: 1)
(s) ffcf1       DMBOOL       (enum: 1)
(t) ffcf2       DMBOOL       (enum: 1)
(u) ffcf3       DMBOOL       (enum: 1)
    portname    DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    dn          DMKLOCDN     (struct)  <--- key, compacted
        noc         DMNOC        (ushort: 14)
        index       DMUNS14      (ushort: 14)
          Stored Tuple Layout    RT_DNTRAN
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             lport             |            ltm_idx            |
   |---------------+---------------+---------------+---------------|
   |                 |             |               |       |       |
 4 |    caseindex    |   lrn_idx   |     vlr_sm    |   a   |   b   |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |   |   |   | | | | | | | | | | |
 8 |  pin4 |  pin3 |  pin2 |  pin1 | c | d | e |f|g|h|i|j|k|l|m|n|o|
   |---------------+---------------+---------------+---------------|
   | | | | | | |                                                 |
12 |p|q|r|s|t|u|*************************************************|
   |===============+==========  portname ==========+===============|
   |                               |               |               |
16 |             member            |***************|     module    |
   |===============+=============  dn ==============+===============|
   |   |                           |                           |   |
20 |***|            noc            |           index           |***|
   |===============+===============+===============+===============|
      ( 24 bytes )
```

## 4. Population rules for RLrt_dntran

### Relation Description

DN terminating translations

DN terminating translations

"Application Specific Population Rules:
portname.member #GLMNPORT thru GLMXPORT

Special Population Rules for ISDN Application (RT_DNTRAN relation)

| Application / Attribute | CS only | Modem Access DN | Secondary - Only DN | Shared Analog DN |
|---|---|---|---|---|
| dn | DN(CS) | MP DN !=DN(PS) | SO DN | SA DN |
| termclass | I_MLHG | MODEM | I_MLHG | I_MLHG |
| term_name | INDI | INDI | INDI | INDI |
| denybv | N | N | Y/N | Y/N |
| deny_term | Y/N | N | Y/N | Y/N |
| portname.module | module | 0 | lead module | lead module |
| portname.member | Dport | #GLNULPORT | D port | LSZport |
| ucd_muph | N | Y | N | N |
| mctran | N | N | Y/N | Y/N |
| calltrc | Y/N | N | Y/N | Y/N |
| ltm_type | OTHER/ ISDN | OTHER | ISDN | ISDN |
| lpt_type | OTHER/ ISDN | OTHER | ISDN | ISDN |
| lport | lport | lport | lport | lport |
| ltm_idx | 0/ ltm_idxi | 0 | ltm_idxi | ltm_idx |
| nohunt | Y/N | N | Y/N | Y/N |
| ind_inwats | Y/N | N | N | Y/N |
| mdn_depend | N | | | |
| mdn_rngpat | default | | | |

NOTATION:

CS only: Circuit switched voice/data only

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```
|                                                                          |
|  DN(CS):          Directory number for circuit switching                 |
|  DN(PS):          Directory number for packet switching                  |
|                                                                          |
|  I_MLHG           Equal to RTTC_INDIVID, RTTC_INWATS or RTTC_PROTGRP     |
|  LSZport          port is L (LEN), S(SLC), or Z (Z-card in an ISLU)      |
|  ISDN             LTM_ISDN                                               |
|  OTHER            LTM_OTHER                                              |
|  ltm_idxi         LTM_ISDN type ltm_idx value                            |
|  lead module      Switching module that will contain the data            |
|                   for a given DN or MLHG member                          |
|                                                                          |
|  INDI:            Equal to FCP_INDI for termname                         |
|                                                                          |
|  Dport:           Port name of the D channel = RLDSLEQUIP.dsl            |
|                                                                          |
|  Y:               DBYES                                                  |
|  N:               DBNO                                                   |
|                                                                          |
|__________________________________________________________________________|
*****************************************************************
*
* Application specific poprules for:
*   Automatic Call Distributor (ACD) and Direct Agent Access (DAA) DNs
*
* The ACD/BRCS Interworking feature allows for the definition of
* ACD and DAA DNs.  The RLrt_dntran tuples for ACD or DAA DNs are
* associated with RLacd_dn or RLdaa_dn tuples, not RLfc_line tuples.
* There also are no tuples in RLrc_oeinfo, RLrc_dninfo or RLpr_dntran
* for either ACD or DAA DNs.
*
* TUPLE SEMANTICS
* ---------------
* The following RLrt_dntran attributes are applicable for ACD and DAA
* DNs.  All attributes not listed shall use their default values.
*
* dn            defined in RLacd_dn or RLdaa_dn
* termclass     RTTC_ACD or RTTC_IWACD
* term_name     FCP_NULL
* calltrc       DBYES or DBNO
* deny_term     DBNO
* denybv        DBYES
* portname      0
* lpt_type      LPT_OTHER
* ltm_type      LTM_OTHER
* ltm_idx       0
* pin[1..4]     '#'
*

*****************************************************************
*
* Application Specific poprules for Remote Digital Test Access
*    (RDTA) ports
*
```

```
* The 5e7 RPA capability allows for RDTA ports to be equipped
* either on an Access Switch or a Remote Switch using either a
* Pseudo BRI port or an EDSL PRI port.  Refer to the poprules
* in RLdn_rdta for more details.
*
* NOTE:  THERE IS NO RLrc_oeinfo OR RLrc_lcc TUPLE FOR EITHER
* -----    TYPE OF RDTA PORT!!!!!!!  SEE SPECIAL RULES IN
*          RLfc_line for determining PORT SERVICE CLASSES!!!
*    ALSO: RLfc_line tuples ONLY exist for RPA Pseudo-BRI ports.
*          The EDSL PRI ports are populated in RLfc_trunk.
*
* TUPLE SEMANTICS
* ---------------
* The following RLrt_dntran attributes are applicable for RPA EDSL
* PRI B-Channel and Pseudo BRI use (RPA does not use EDSL D-Channel).
* Both types will have the rdta_port attribute equal DBYES signaling
* TM routing to take the call.  All the attributes not listed shall
* use their default values.  RDTA does not allow port intercept.
*
* dn    NOC and Digits defined in RLdn_rdta
* termclass     RTTC_TMTST
* term_name     FCP_INDI
* denybv        DBNO
* deny_term     DBNO
* portname      RPA gport populated in RLdn_rdta, RLgroup_port, RLpggpmap
* lpt_type      LPT_ISDN (for Pseudo BRI) or LPT_OTHER (for EDSL PRI)
* ltm_type      LTM_OTHER
* lport Pseudo BRI RDTA lport defined in RLlpt_pt or
*            0 for EDSL PRI ports
* ltm_idx       0
* rdta_port     DBYES
*
*************************************************************************"
```

**Attribute:**

dn

**Fullname:**

terminating directory number

**Attribute Description:**

This attribute consists on the NOC (normalized office code) and four directory number digits.
This dn represents only the Circuit Switching DN.

For any directory number, if the noc+d4d3 has a tuple in relation RLRTDNMOD with a non-zero route index a tuple also may exist in RLRT_DNTRAN. For these cases the tuple in RLRT_DNTRAN will take precedence insofar as call routing is concerned. This is true regardless of the type of SM (RSM/LSM/HSM/ORM) from which the call originates. An example where this is useful is the case of a DN hundreds group where most DNs all route to the same PBX trunk group but there are a few DNs in that hundreds group which do not. In this case the route

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index in RLRTDNMOD is used to route the majority of calls to the hundreds group whereas those few which route differently do so via the existence of RLRT_DNTRAN tuples.

Automatic Call Distributor (ACD) DNs that are not being interflowed have a corresponding tuple in RLacd_dn. Direct Agent Access (DAA) DNs and ACD DNs that are being interflowed have a corresponding tuple in RLdaa_dn.

A DN, used for Integrated Service Digital network,
may have:
(1) circuit switching only, or
(2) packet switching only, or
(3) both circuit and packet switching.

This dn attribute is only associated with the circuit switching dn. If the dn is a packet switching dn, then the relation RLpr_dntran will be populated instead.

SPECIAL UNIQUENESS CHECK FOR CIRCUIT/PACKET DNs:

The DN represented by this tuple must be unique to this user. This means that if a corresponding tuple exists in RLpr_dntran (that is not on intercept with module equal to zero), then that tuple must be associated with the same user as this RLrt_dntran tuple. Further, only intercepted DNs, individual DNs, and some types of MLHG DNs can have any RLpr_dntran tuple.

This check ensures that if a tuple exists in both RLrt_dntran and RLpr_dntran with the same DN, that both DNs belong to the same user and the Service Order Profiles (SOPs) are:
RLrt_dntran: CKT
RLpr_dntran: PPD, ODB, PPB1, PPB2

**Attribute:**
dn.noc
**Fullname:**
normalized office code
**Attribute Description:**
see dn

**Attribute:**
dn.digits
**Fullname:**
four directory number digits
**Attribute Description:**
see dn

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**Attribute:**

termclass

**Fullname:**

termination class of service

**Attribute Description:**

For ISDN DSLs (servclass=FC_ISDN) the termclass should be populated with RTTC_INDIVID unless it is in a multiline hunt group.

ACD and DAA DNs have either a RTTC_ACD or RTTC_IWACD termclass. If an ACD or DAA DN is assigned INWATS treatment, it will have the RTTC_IWACD termclass. Otherwise, it will have the RTTC_ACD termclass. DNs with a termclass of either RTTC_ACD or RTTC_IWACD will have: term_name set to FCP_NULL, deny_term set to DBNO, denybv set to DBYES, portname set to 0, lpt_type set to LPT_OTHER, ltm_type set to LTM_OTHER, ltm_idx set to 0, and pin[1..4] set to '#'.

The termclass can be RTTC_PORTGRP or RTTC_INWATS for ISDN Attendant DSL's ( servclass = FC_ISATND )

for circuit switched voice multiline hunt groups [RLrt_mhg(grpnum).beartyp = BR_VOICE; where RLpggpmap(module, D port).grpnum is the key to RLrt_mhg]. It must be RTTC_INWATS or RTTC_PORTGRP for ISDN circuit switched data hunt groups (RLrt_mhg.beartyp = BR_CSD). If termclass = RTTC_INWATS and the port value is non-zero, you must find a matching RLfc_line tuple with INWATS=DBYES. If termclass = RTTC_INWATS and the port value is zero, you must find a matching dn in RLrt_dnmhg tuple for grpnum that maps into rlRT_MHG where INWATS=DBYES.

When a DN is assigned for the mixed local/inwats mlhg access feature, the RT_DNTRAN tuple created for inwats access acts as an alternate entry point to an existing mlhg. This alternate entry point is a special case of multiple DNs for a mlhg member.
A tuple for the inwats mixed access may exist for
1) A UCD group
2) A MUPH sub-group
3) A member of a mlhg with a hunt type of RTH_REGULAR, RTH_CIRCULAR, RTH_LGREG, or RTH_LGCIR

Hunt group dns normally have a termclass of RTTC_PORTGRP or RTTC_INWATS. The RTTC_INDIVID termclass may be intermixed with the other two.
Multiple dns for a multiline hunt group can have any of the following termclass: RTTC_INDIVID, RTTC_PORTGRP, RTTC_AGING, or RTTC_INWATS.
In the local/inwats mixed mlhg access case of multiple DNs the termclass is always RTTC_INWATS.

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A termclass of RTTC_INWATS can now be assigned to non-MLHG lines. When a non-MLHG line has a termclass of RTTC_INWATS, the ind_inwats attribute must be set to DBYES.

When the DN is assigned for trunk INWATS (TINWATS), termclass = RTTC_TINWATS, RLrt_dntran.portname.module = 0, and RLrt_dntran.portname.member = #GLNULPORT. The RTTC_TINWATS termclass is the same type as the RTTC_RI termclass. RTTC_TINWATS may only be assigned to DNs that route via an RI to a trunk group.

When a DN is assigned as the Remote Access Directory Number (RADN) for the Remote Access to Advanced Service Interface (RASI) special feature, termclass=RTTC_ASI_RA, RLrt_dntran.portname.module = 0, and RLrt_dntran.portname.member = 0.

5E5_1U SERVICE ORDER PROCESSING FOR INTERCEPT
(that is, RLrt_dntran.termclass set to RTTC_AGING)

1. There are two types of intercept possible. The first involves putting a DN on intercept and leaving the port data intact. The second involves putting the DN on intercept and removing the association of the DN with its physical and logical data.

   a. Intercept CAN be assigned to an MLHG individual member DN or a member, including cases where the individual member DN is the same as the MLHG group DN (such as, member 1's DN for regular, circular or PPMHG hunt groups.)

      (a typical DN that is not placed on intercept is:

      RLrt_dntran.termclass equals RTTC_PORTGPR
      RLrt_dntran.port.module equals 0
      RLrt_dntran.port.member equals 0).

   b. When the port data is left intact:
      RLrt_dntran.portname.module is_not_equal 0.
      RLrt_dntran.portname.member is_not_equal #GLNULPORT.
      All intercept bits must be set (refer to #2).
      All port data remains intact (refer also to #3).
      A tuple exists in RLrc_oeinfo.

   c. When the port data is disassociated with the DN:
      RLrt_dntran.portname.module equals 0.
      RLrt_dntran.portname.member equals #GLNULPORT.
      RLrt_dntran.ltm_type equals LTM_OTHER.
      RLrt_dntran.ltm_idx equals 0.
      RLrt_dntran.lpt_type equals LPT_OTHER.
      RLrt_dntran.lport equals 0.
      All port data is removed or unassigned.
      A tuple exists in RLrc_dninfo.

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2. For the previous case (1b), the following must be done:

   a. Verify the RLfc_line tuple has its intercept bit set to prevent originations (and some terminations). Note that for ISDN shared DNs, RLfc_line will only be set if the DN is a primary DN. Also, ports that have multidn capabilities will only have their RLfc_line.intercept bit toggled if the locdn field matches the DN in RLrt_dntran.

```
for all tuples in RLrt_dntran
where ( ( RLrt_dntran.termclass equals RTTC_AGING ) and
      ( RLrt_dntran.portname.module is_not_equal 0 ) and
      ( RLrt_dntran.portname.member is_not_equal #GLNULPORT ) )
when found
    find exactly 1 tuple in RLfc_line
                on SM RLrt_dntran.portname.module
    where ( ( RLfc_line.port.module equals
                 RLrt_dntran.portname.module ) and
        ( RLfc_line.port.member equals
                 RLrt_dntran.portname.member ) and
        ( RLfc_line.party equals RLrt_dntran.term_name ) )
    when found
          if ( ( RLrt_dntran.ltm_idx equals RLfc_line.ltm_idx ) and
               ( RLfc_line.multidn equals DBNO ) )
          then RLfc_line.intercept equals DBYES;
          else if ( ( RLrt_dntran.dn equals RLfc_line.locdn ) and
                   ( RLfc_line.multidn equals DBYES ) )
          then RLfc_line.intercept equals DBYES;
```

   b. If this user is an ISDN user, RLis_line must be placed on intercept as well. Further, if the ISDN user is the part of a shared DN group, then ALL RLis_line tuples in that shared DN group must be placed on intercept.

```
short module;
for all tuples in RLrt_dntran
where ( ( RLrt_dntran.termclass equals RTTC_AGING ) and
        ( RLrt_dntran.portname.module is_not_equal 0 ) and
        ( RLrt_dntran.portname.member is_not_equal #GLNULPORT ) and
        ( RLrt_dntran.ltm_type equals LTM_ISDN ) )
when found
     find exactly 1 tuple in RLis_line
                 on SM RLrt_dntran.portname.module
     where ( ( RLis_line.lead_module equals
                 RLrt_dntran.portname.module ) and
             ( RLis_line.ltm_idxi equals RLrt_dntran.ltm_idx ) )
     when found
     begin

          if ( RLis_line.primary equals DBNO )
          then RLis_line.intercept equals DBYES;
          else find exactly 1 tuple in RLfc_line
```

```
                                   on SM RLis_line.lead_module
                         where ( ( RLfc_line.port.module equals
                                        RLrt_dntran.portname.module ) and
                                   ( RLfc_line.port.member equals
                                        RLrt_dntran.portname.member ) and
                                   ( RLfc_line.party equals
                                        RLrt_dntran.term_name ) )
                         when found
                              if ( RLfc_line.intercept equals DBYES )
                              then RLis_line.intercept equals DBYES;

                              if ( ( RLis_line.intercept equals DBYES ) and
                                   ( RLis_line.shared equals DBYES ) )
                              then find all tuples in RLshterm
                                   on SM RLis_line.lead_module
                              where ( ( RLshterm.lead_module equals
                                         RLis_line.lead_module ) and
                                      ( RLshterm.ltm_idxi equals
                                         RLis_line.ltm_idxi ) and
                                      ( RLshterm.range is_in { 0..7 } ) )
                              when found
                                   for module in RLshterm.shared[ 0..3 ].module
                                   find exactly 1 tuple in RLis_line on SM module
                                   where ( ( RLis_line.lead_module equals
                                                RLshterm.lead_module ) and
                                             ( RLis_line.ltm_idxi equals
                                                RLshterm.ltm_idxi ) )
                                   when found
                                        RLis_line.intercept equals DBYES;
          end
```

3) For lines that are not multiparty, FC_ISDN, or FC_ISATND, the RLfc_porttyp.servclass will typically be set to RC_PORTUNA or RC_UNASSIG. Refer to RLfc_porttyp for more details. For lines that are members of MLHGs, refer to the population rules for RLfc_line, RLrt_mem, and RLrt_lgmem for additional dependencies.

4) Refer also to the population rules for:
   - RLfc_porttyp.P (servclass attribute and retrofit)
   - RLfc_line.P (Analog and ISDN primary DNs)
   - RLis_line.P (ISDN and shared DN lines)
   - RLrc_multidn.P (lines that have multiple DNs allowed)
   - RLrc_dninf.P (does not exists when DN is associated with its port data)
   - RLrc_oeinfo.P (exists where intercept equals DBYES and port data remains)
   - RLrt_lgmem.P (large MLHG groups)
   - RLrt_mem.P (small MLHG groups)

**Attribute:**
vlr_sm
**Fullname:**

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DN to VLR SM translation

**Attribute Description:**

This field is used only for Wireless Centex feature(WCTX).
It indicates which SM contains VLR (Visitor Location Register)
data. For Non-WCTX, it must be set to the default value 0x0.

**Attribute:**

deny_term

**Fullname:**

denied termination

**Attribute Description:**

Deny termination. Line should not be allowed to receive calls.

If the terminating class is a multiline hunt group
(that is if termclass = RTTC_PORTGRP or RTTC_INWATS)
then 'deny_term' must be populated as DBNO.

If the line has circuit switching, default is DBNO;
otherwise, default is DBYES.
For ISDN lines, see the table for ISDN applications
in General Section.

**Attribute:**

portname

**Fullname:**

global port name

**Attribute Description:**

If ltm_type is LTM_ISDN, the portname is that of ISDN
lead port or the shared analog portname.
Note: The range of values for D-Channel port members
is (#GLMNPORT to #GLMXPORT).

Dependencies:
1) IF ucd_muph == DBYES
( rlRT_DNTRAN.portname.module = 0
rlRT_DNTRAN.portname.member = #GLNULPORT )
2) IF portname.member > #GLNULPORT,
verify existence of tuple in RLfc_line AND
a tuple in RLfc_porttyp for this key port;
ELSE
No dependency for ucd_muph. If portname.member
is #GLNULPORT and portname.module is 0
and termclass is not RTTC_AGING then the tuple is
distributed to the routing module, to all RSMs, and all
other modules with the stand alone option installed using
the GPDSA_PART group type using the routing module number
as the grp_id.
These cases are:
1) ucd_muph DN
2) special ri DN where the ri is not specified in RLrtdnmod
(For ODA: if the ri is specified in RLrtdnmod and a tuple exists

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in RLrt_specri for this DN, then the appropriate warning
or error message is given. See poprule 2 for the 'dn' attribute.
For RC: if the ri is specified in RLrtdnmod and a tuple exists in
RLrt_specri for this DN with the same or different ri specified,
this can be a valid but temporary ri change transition state. See
poprule 2 for the 'dn' attribute for further information.)

3) For every tuple in RLRT_DNTRAN except for MUPH or UCD,
if portname.member = #GLNULPORT and portname.module = 0
a corresponding tuple must exist in RLRC_DNINFO.
For every tuple in RLRT_DNTRAN with portname.module > 0
and portname.member > #GLNULPORT, no corresponding tuple
in RLRC_DNINFO should exist.

If tuple is being created as a multiple dn for a multiline hunt
group member, this port must already exist in the relation
RLgroup_port keyed by the designated group, TM_LINE, and member.
For servclass FC_ISATND, FC_ISDN the portname
should be the D-port.

4) If RLrt_dntra.ltsb_pt equals DBYES then RLrt_dntra.portname
is a LTSB port (1-TN and 2-TN).

**Attribute:**
portname.member
**Fullname:**
port name of a port
**Attribute Description:**
see portname

**Attribute:**
portname.module
**Fullname:**
the SM number that this port terminates on
**Attribute Description:**
see portname

**Attribute:**
term_name
**Fullname:**
termination name
**Attribute Description:**
Must have the value FCP_INDI if the port is a member of
a LINE SIDE Stand-Alone Announcement MLH group on a module
that has the stand alone call processing option, that is
the port points to a MLH group which is local to the
module and the parameter GLsalgrp contains that MLH group
number.

For servclass FC_ISDN, populate as follows:
if ( RLdslequip(portname).briclass == BRI_MP ) or
( RLdslequip(portname).briclass == BRI_PP ) or

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```
     RLdslequip(portname).briclass == BRI_STD )
then term_name is in {0 thru 7}

For servclass FC_ISATND and cpetype IS_TYPATT,
this is populated with FCP_INDI.

If the dn is a multiple dn for a member of a multiline hunt
group, the term_name must be the same as for the base dn for
the multiline hunt group member that defined in RLfc_line.
```

**Attribute:**
calltrc
**Fullname:**
is calll tracing in effect?
**Attribute Description:**
Indicates if calls to thes dn should be traced.
This attribute should always be initialized to
DBNO, since traces require considerable resources.
The field may be updated by recent change on request.
If the tuple is for a multiple dn of a multiline hunt
group, this attribute is defaulted to DBNO. This field
may be updated by recent change on request for both the base
dn or the multiple dn.

**Attribute:**
denybv
**Fullname:**
are busy verify capabilities denied?
**Attribute Description:**
Tells if the line has the busy verify service denied.
If the dn is a multiple dn for a member of a multiline
hunt group, the value of denybv is the same as that of
the base dn. While the base dn of a multiline hunt group
has multiple dns associated with it, the denybv field is
not updatable by recent change.

**Attribute:**
ucd_muph
**Fullname:**
indicates if this is a main DN for a UCD, MUPH, ISAT hunt
group/subgroup, or access TN for Modem Pooling
**Attribute Description:**
Indicates if this is either a UCD group DN, OR a MUPH
subgroup DN (DBYES) or ISAT subgroup DN (DBYES) or
modem access DN(DBYES) or none of these (DBNO).

Dependency:
1) IF rlRT_DNTRAN.ucd_muph == DBYES and
   rlRT_DNTRAN.termclass == RTTTC_PORTGRP then verify that
   rlRTDN_MHG has a tuple with key rlRTDN_MHG.locdn =

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```
   rlRT_DNTRAN.dn.
   ELSE IF rlRT_DNTRAN.ucd_muph == DBYES and
   rlRT_DNTRAN.termclass == RTTTC_MODEM then verify that
   rlRTDNMPG has a tuple with key rlRTDNMPG.locdn =
   rlRT_DNTRAN.dn.
2) IF rlRT_DNTRAN.ucd_muph == DBYES then verify that
   this rlRT_DNTRAN tuple exists in the routing module,
   all RSMs, and all other modules with the stand alone
   call processing option installed (that is Glsacp = DBYES).
3) IF ucd_muph == DBYES then
   portname = 0.
4) If rlRT_DNTRAN.ucd_muph == DBYES then
   rlRT_DNTRAN.termclass must be either
   RTTC_PORTGRP (MLHG) or RTTC_INWATS or
   RTTC_MODEM(modem access DN).
5) If rlRT_DNTRAN.ucd_muph == DBYES then
   rlRT_DNTRAN.denybf must be DBNO.
```

**Attribute:**

mctran

**Fullname:**

indicates if there is an associated entry in RLrt_mctr for this DN

**Attribute Description:**

The mctran attribute indicates if there is an associated entry in the relation RLrt_mctr for this DN. A value of DBYES in mctran indicates one of the following SFGs must be associated with this DN: originating SFG, terminating SFG, INWATS SFG or SDN SFG.

If the DN has EON, INWATS or SDN SFG assigned, the mctran is always DBYES.

The mctran attribute is also used by the trunk INWATS feature (RLrt_dntran.termclass = RTTC_TINWATS) to indicate if there is an associated entry in the relation RLrt_mctr for this DN. It is set to DBYES if RLrt_dntran.termclass = RTTC_TINWATS and a tuple exists for this DN in RLrt_mctr (RLrt_mctr.locdn) with RLrt_mctr.inwats_mcri > 0.

Once it is determined that the DN has EON, INWATS or SDN SFG, the value of mctran is set to DBYES, the following tgid check will not change the value of mctran for this particular DN.

If the DN belongs to a terminal group(tgid)
then if RLrt_tgid(tgid) tuple exists
     then if RLrt_ tgid.term_sfg and RLrt_ tgid.orig_sfg are both DBNO
          then the attribute mctran is DBNO
          else the attribute mctran is DBYES.
     else the attribute mctran is DBNO.
else the attribute mctran is DBNO.

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**Attribute:**
ltsb_pt
**Fullname:**
indicates whether or not this is an LTSB port
**Attribute Description:**
Indicates whether or not this is an LTSB port. If this bit is set to DBNO, TM only has to read RLrtdnmod and this relation to get the corresponding port and module and line testing would proceed as if it were a normal non-LTSB line. If this bit is set to DBYES, then this port is an LTSB port and a read must be done of RLrc_oeinfo to check service class code information for LTSB.

**Attribute:**
lpt_type
**Fullname:**
the type of logical port
**Attribute Description:**
lpt_type Indicates the LPORT type to which the lport value associated with this DN belongs. The lpt_type is LPT_ISDN for ISDN BRCS, ISDN PODS, or shared analog lines:

RLrt_dntran.lpt_type is LPT_ISDN if:
RLfc_porttyp.servclass == FC_ISDN or
RLfc_porttyp.servclass == FC_ISATND or
RLfc_porttyp.sh_analog == DBYES.

Otherwise:
RLrt_dntran.lpt_type == LPT_OTHER.

If this is an ISDN BRCS, ISDN PODS or ISDN-analog line, then RLrt_dntran.lpt_type must be LPT_ISDN and the portname is that of ISDN lead port or shared analog portname.

**Attribute:**
ltm_type
**Fullname:**
the type of logical termination index
**Attribute Description:**
Indicates the LTM_IDX type to which the ltm_idx value associated with this DN belongs.

RLrt_dntran.ltm_type is LTM_ISDN if
1) this is a primary DN on a DSL
(RLis_line.primary is DBYES and
RLis_term.cprtyp is IS_TYPEA, IS_TYPEB, IS_TYPEC,
IS_TYPED, IS_TYPEE, or IS_TYPATT) , or
2) this is the primary DN of a shared analog line

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```
   (RLfc_porttyp.sh_analog is DBYES) or
3) it is a secondary-only DN (RLis_line.primary is DBNO).

If this is an ISDN DSL or a shared analog line,
or a secondary-only DN
then RLrt_dntran.ltm_type must be LTM_ISDN and
the portname is that of ISDN lead DSL port or
the shared analog portname.

Otherwise RLrt_dntran.ltm_type must be LTM_OTHER.

If set to LTM_ISDN, RLis_line will be populated with key
RLrt_dntran.portname.module and RLrt_dntran.ltm_idx

For the following case,
ltm_type = LTM_OTHER and ltm_idx = 0

1) rt_dntran.ucd_muph is DBYES, this indicates a UCD,
   MUPH, or ISAT subgroup DN, or a MP access DN.
2) rt_dntran.termname is RTTC_AGING, this indicates
   a CKT TN is on intercept without a port.
3) rt_dntran.servclass is FC_ISDN and RLis_term.cpetyp
   is not IS_TYPEA, IS_TYPEB, IS_TYPEC, IS_TYPED, IS_TYPEE
   or IS_TYPATT.
```

**Attribute:**

lport

**Fullname:**

logical port

**Attribute Description:**

```
Logical port which is a sequential number of physical
ports when they are assigned. The lport is preserved
during office growth or office ODD reprocessing.

if ( RLrt_dntran.portname.member > #GLNULPORT )
then RLrt_dntran.lport = RLfc_line.lport
else RLrt_dntran.lport = 0

If RLrt_dntra.ltsb_pt equals DBYES then RLrt_dntra.portname
is a LTSB port (1-TN and 2-TN).

The range in this relation depends upon the portname.module
SM type.  For an SM related DNs, the lport ranges from
0 to 8191.  For SM-2000 related DNs, the lport depends on the
lpt_type.  For LPT_OTHER, SM-2000 lports range from 0 to 65531.
For other lpt_types, SM-2000 lports range from 0 to 8191.
```

**Attribute:**

ltm_idx

**Fullname:**

logical termination index

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**Attribute Description:**

A RC/ODA assigned ltm_idx value. The
name.module, ltm_type, and ltm_idx values are used as
key values lead_module, ltm_type, and ltm_idx,
respectively to access RLdn_feats. If ltm_type
is LTM_ISDN, name.module and ltm_idx are also used
as key values lead_module and ltm_idxi respectively to
access relations such as RLis_line, RLshterm,
etc. Refer to text under ltm_type poprules
to determine when to use an LTM_ISDN ltm_idx value.
See RLrc_qidx for rules for assigning
the value. When ltm_type is LTM_ISDN then
RLis_line requires a tuple keyed by
lead_module and ltm_idx.
An ltm_type of LTM_OTHER and a non-zero value
is required when 1) the ltm_type is not LTM_ISDN
and 2) it is not one of the zero cases as described
in the text under ltm_type.

This index is a sequential
number assigned to correspond to the DN of this
relation. The ltm_idx is preserved during office growth
or offline ODD reprocessing.

If ltm_type is LTM_ISDN,
new DNs will be assigned values from the lowest
available RLrc_qidx(portname.module).ltm_idxi attribute
or holes from deleted ltm_idx entries. See
RLrc_qidx.index and RLrc_qidx.succ. ltm_idx will exist
as the key in RLis_line with RLis_line.lead_module =
portname.module and RLis_line.ltm_idx = ltm_idx.
If RLis_line.primary = DBYES, then
a RLfc_line tuple exists where RLfc_line.ltm_idx =
RLrt_dntran.ltm_idx and RLfc_line.ltm_type = LTM_ISDN.
The keys to the RLfc_line tuple are port =
RLrt_dntran.portname and party = RLrt_dntran.term_name

If ltm_type is LTM_OTHER and requires a non-zero ltm_idx
(refer to ltm_type poprules for the zero cases), then
new DNs will be assigned values from the lowest
available RLrc_qidx(portname.module,LTM_IDXO).ltm_idxo attribute
or holes from deleted ltm_idx entries. See
RLrc_qidx(module, LTM_IDXO, qid).index and RLrc_qidx.succ
Also, a RLfc_line tuple exists where RLfc_line.ltm_idx =
RLrt_dntran.ltm_idx and RLfc_line.ltm_type = LTM_OTHER.
The keys to the RLfc_line tuple are port =
RLrt_dntran.portname and party = RLrt_dntran.term_name

NOTE: the ltm_idx is also assigned to MLHG members
and trunk members. If a MLHG or trunk member,
ltm_idx = RLgroup_port(portgrp,member).ltm_idx.
See RLgroup_port population rules under attribute ltm_idx.

NOTE: the ltm_idx is also associated with CA-ICOM CAs.

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Each CA-ICOM CA will have a tuple in is_line keyed
by the ltm_idx & lead port. A CA-ICOM CA does not
have a associated DN, so there will not be a DNtran tuple
for it. However there is a entry in the icm_term relation
that links the lports. See is_line & icm_term checks.

NOTE: when the DN is a multiple DN that terminates to
the same port (one found in relation RLrc_multidn and
is not RLfc_line.locdn), then the ltm_type and ltm_idx
values are the same those found in
RLrt_dntran.(RLfc_line.locdn).

Note: Attribute ltm_idx has a domain range of 0-8191
for an SM and 0-65531 for SM-2000. The range in this
relation depends upon the portname.module SM type. For
an SM related DNs, ltm_idx range is 0-8191. For
SM-2000 related DNs, ltm_idx range is 0-65531.
As discussed in RLrc_qidx, the existence of an
index implies the value 1 or greater.

Note: If RLrt_dntra.ltsb_pt equals DBYES then RLrt_dntra.portname
is a LTSB port (1-TN and 2-TN).

**Attribute:**
no_hunt
**Fullname:**
indicates if this is a no_hunt DN entry to a hunt group member
**Attribute Description:**
If DBYES then calls to this DN should only terminate to
the equivalent hunt group member, not hunt to other hunt
group members.

Dependency: If nohunt is DBYES, then termclass must be
RTTC_PORTGRP, RTTC_INWATS, RTTC_INDIVID, or RTTC_AGING.
The group DN of a multiline hunt group must always
have nohunt set to DBNO. For RTH_UCD, RTH_LGUCD,
RTH_ISAT, if nohunt = DBYES then
ucd_muph should be set to DBNO (that is when ucd_muph
is DBYES, this is the group DN).
For members of a multiline hunt group to
have a nonhunt dn, the hunt group must have a hunt
type of either RTH_CIRCULAR, RTH_REGULAR, RT_UCD, RTH_LGCIR,
RT_LGUCD, RTH_ISAT, or RTH_LGREG in RLrt_mhg.

**Attribute:**
mdn_depend
**Fullname:**
indicates if this is a dependent DN of a multiple DN
**Attribute Description:**
indicates a dependent DN for Multiple DNs.
Multiple DNs may exist on ISDN MLHG or Analog MLHG or individual

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```
        analog lines.
```

**Attribute:**

```
        mdn_rngpat
```

**Fullname:**

```
        indicates the distinctive ringing pattern for a multiple DN
```

**Attribute Description:**

```
        Identifies type of Distinctive Ringing pattern
        associated with a master or dependent DN of a
        Multiple DN line.

        For every tuple in RT_DNTRAN
        if (RT_DNTRAN.mdn_depend == DBYES) then
          begin
           if ((RT_DNTRAN.termclass == RTTC_INDIV   ||
               (RT_DNTRAN.termclass == RTTC_INWATS  &&
                RT_DNTRAN.dn   !=   RTDN_MHG.locdn))
           then
                must find exactly 1 tuple in RLfc_line
                where( RLfc_line.party equals RLrt_dntran.termname)
                when found
                begin
                        if(RLfc_line.mfri equals DBYES) then
                        begin
                                mdn_rngpat must_equal MDN_DR_A
                        end
                        else
                        begin
                                mdn_rngpat must_be_in {MDN_DR_A,
                                        MDN_DR_B, MDN_DR_C or MDN_DR_E}
                        end
                end

            if (RT_DNTRAN.termclass in
                        {RTTC_PORTGRP, RTTC_INWATS}  &&
               RT_DNTRAN.dn   ==   RTDN_MHG.locdn  &&
               RTDN_MHG.muph_hunt  = DBNO &&
               RTDN_MHG.isat_hunt  = DBNO       ))
            then
                begin
                        mdn_rngpat must_be_in {MDN_DR_A,
                                MDN_DR_B, MDN_DR_C or MDN_DR_E}
                end

          end
```

**Attribute:**

```
        pin4
```

**Fullname:**

```
        the digit personal identification number for this DN
```

**Attribute Description:**

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This is the most significant digit of a Binary Coded Decimal (BCD) Personal Identification Number (PIN). It is service order changeable only. The intent of the PIN is to provide each line in the office with a security code for services such as Remote Access Service (RAS) and Automatic Customer Station Rearrangement (ACSR). Note: if any pin[] is specified, all pins[] must be specified by RC and ODA.
Domain: DMBCD
Values: { 0 - 9, # }
Default: '#' (no pin was specified)

**Attribute:**
pin3
**Fullname:**
the digit personal identification number for this DN
**Attribute Description:**
This is one digit of a Binary Coded Decimal (BCD) Personal Identification Number (PIN). It is service order changeable only. The intent of the PIN is to provide each line in the office with a security code for services such as Remote Access Service (RAS) and Automatic Customer Station Rearrangement (ACSR). Note: if any pin[] is specified, all pins[] must be specified by RC and ODA.
Domain: DMBCD
Values: { 0 - 9, # }
Default: '#' (no pin was specified)

**Attribute:**
pin2
**Fullname:**
the digit personal identification number for this DN
**Attribute Description:**
This is one digit of a Binary Coded Decimal (BCD) Personal Identification Number (PIN). It is service order changeable only. The intent of the PIN is to provide each line in the office with a security code for services such as Remote Access Service (RAS) and Automatic Customer Station Rearrangement (ACSR). Note: if any pin[] is specified, all pins[] must be specified by RC and ODA.
Domain: DMBCD
Values: { 0 - 9, # }
Default: '#' (no pin was specified)

**Attribute:**
pin1
**Fullname:**
the digit personal identification number for this DN

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**Attribute Description:**

This is the least significant digit of a Binary Coded Decimal (BCD) Personal Identification Number (PIN). It is service order changeable only. The intent of the PIN is to provide each line in the office with a security code for services such as Remote Access Service (RAS) and Automatic Customer Station Rearrangement (ACSR). Note: if any pin[] is specified, all pins[] must be specified by RC and ODA.
Domain: DMBCD
Values: { 0 - 9, # }
Default: '#' (no pin was specified)

**Attribute:**

rdta_port

**Fullname:**

Implies tuple is an RPA RDTA TN and should route via TM routing.

**Attribute Description:**

The attribute is used to determine if the digits are associated with either a EDSL PRI or Pseudo-BRI RPA Remote Digital Test Access port that is defined in RLdn_rdta. If this attribute is DBYES then there must also be a tuple in RLdn_rdta for this noc and digits (noc must be converted into its corresponding nxx). The attribute is used by TM routing to route the call as a test line code to an RPA session. Both types of RPA ports will be populated ONLY on their designated routing module. See the previous distribution rules. Only option #1 applies to RPA ports.

## 5. RT_DNTRAN Population rules continued.

**Attribute:**

ind_inwats

**Fullname:**

indicates that a line is an individual INWATS line and is not part of a MLHG

**Attribute Description:**

If this line has a termclass of RTTC_INWATS and is not part of a MLHG, then the ind_inwats bit must be set to DBYES

**Attribute:**

client_typ

**Fullname:**

client TN type sent to message service center

**Attribute Description:**

Indicates the client TN type sent to the voice message system. With the introduction of ISVM in 5E7, message service center (MSC) can be categorized into eight types as follows:

| Basic/Deluxe | Screening | No-Screening |
|---|---|---|
| OCDN Option | 1B/1D | 3B/3D |

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RDN Option 2B/2D 4B/4D
---

Note that B indicates 'Basic' and D indicates 'Deluxe'. 'Deluxe' means there is an AP or VM associated with the MSC. MSC types 1B and 1D are existing pre-5E7 MSCs. MSC types 2B, 3B, and 4B should be blocked because they will not be supported in 5E7.

If RLrt_dntran.client_typ is set to MSS_OCDN or MSS_RDN, then RLrt_dntran.no_hunt must be DBNO. In other words, if client TN type is specified, the DN must be hunted.

If RLrt_dntran.client_typ is set to MSS_OCDN or MSS_RDN, then must find the associated tuple in RLrt_mhg and make sure that RLrt_mhg.mdc is DBYES.

If RLrt_dntran.client_typ = MSS_RDN, then must find the associated tuple in RLmdc_grp and make sure that RLmdc_grp.ap_id must not equal 0. This is to block 2B or 4B type of MSCs.

If RLrt_dntran.client_typ = MSS_OCDN, then must find the associated tuple in RLmdc_grp and verify that RLmdc_grp.ap_id must not equal 0, provided that RLmdc_grp.msc_scrn equals DBNO. This is to block 3B type of MSC.

**Attribute:**
scp_alw
**Fullname:**
Service Control Point Messaging Allowed
**Attribute Description:**
This attribute will be used to indicate whether or not messages from Service Control Point may be received.

**Attribute:**
ncdt
**Fullname:**
NP - Non-Conditional 10-Digit Trigger for LRN
**Attribute Description:**
This attribute will be used to indicate whether or not the NP - Non-Conditional 10-Digit Trigger for LRN has been enabled for this DN.

**Attribute:**
ffcf1
**Fullname:**
boolean reserved for future field feature
**Attribute Description:**
boolean reserved for future field feature

**Attribute:**

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ffcf2
**Fullname:**
boolean reserved for future field feature
**Attribute Description:**
boolean reserved for future field feature

**Attribute:**
ffcf3
**Fullname:**
boolean reserved for future field feature
**Attribute Description:**
boolean reserved for future field feature

**Attribute:**
lrn_idx
**Fullname:**
Location routing number index
**Attribute Description:**
This attribute is a key into the RLlrntbl relation. It is used to find the location routing number associated with this ported DN.

**Attribute:**
caseindex
**Fullname:**
Case Index
**Attribute Description:**
Index into the CALEA cases

**Defines:**
"db/DMparty.h",
"db/DMport.h"

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# RT_DTRTX

## 1. Description

ISDN data route index.
This relation is used to obtain the route index for ISDN circuit-switched data calls or speech calls.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16383 |
| expected number of tuples | 127 |
| density | 62 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
RT_DTRTX    relid = 205   DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     route_x     DMRTEIDX     (ushort: 14)     <--- key
 (a) datarate    DMDATARATE   (enum: 2)     <--- key
     data_rtx    DMRTEIDX     (ushort: 14)
         User, Compacted and Stored Tuple Layout   RT_DTRTX
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |   |                           |   |
  0 |          route_x              | a |          data_rtx         |***|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLrt_dtrtx

**Relation Description**
ISDN Data Route Index.

This relation is used to obtain the route index for ISDN circuit-switched data calls or speech calls. RTA normally gets the route index at the RT_SCRNING state from either the RT_SCRNING relation or from Digit Analysis and sends it to the RT_RTING state. However, in an ISDN data call or a speech call, the RT_SCRNING state will check the originating tcm.bear_cap for voice, data, or speech. If data or speech, the RT_DTRTING state will be called. RT_DTRTING will combine the original route index with the originating datarate (DBDATA_NULL for speech) to form the key to read this relation to get a 'new' route index. RT_DTRTING will then pass the 'new' route index to the RT_RTING state.

'Normal' route index leading to announcement trunk or OSPS trunk is not allowed to be populated in this relation.

The following paragraphs do not apply when the datarate is DBDATA_NULL. These checks and descriptions are only relevant to actual data datarates, not speech.

If a trunk group handling data at the rate requested does not exist, then no tuple for this rate will be populated in this relation causing a reorder on the call.

The following are guidelines for the toll network pertaining to the DAS (that is, the Digit Analysis dig_tree in the DA_DIGSTRT) and data rate relationship. These cannot be enforced by recent change or by ODA checks:

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All route indexes derived by a DAS of 82, 90, and 98 must have a DBDATA_56K tuple present in this relation. All route indexes derived by a DAS of 90, 92, and 98 must have a DBDATA_R64K tuple present in this relation. All route indexes derived by a DAS of 90, 91, and 98 must have a DBDATA_64K tuple present in this relation.

This relation will also be used for routing data calls to EDSL B channel trunks. This description applies to EDSL with the following exceptions: The route index for accessing the EDSL B trunk group is obtained from directory number relations (RLRTDNMOD in the RT_PREDNTRAN state, or RLRT_SPECRI in the RT_POST_DNTRAN state), or screening, or digit analysis. In this state(s) RTA will combine the datarate with the original route index and go to the RT_DTRTING state. This data routing state will then pass the 'new' data route index to the RT_RTING state.

The trunk group associated with this new route index is the group designated to handle data calls at the rate requested. That is, except for CCS and EDSL B trunks the 'datarate' attribute of each trunk member of that trunk group should be the same as the rate requested. These data trunks must be segregated from voice trunks. There may exist up to three tuples in this relation per 'normal' route index. These three tuples are for 56kb/s, restricted 64kb/s and 64kb/s trunk groups.

Trunks connecting *5ESS*®-2000 switch offices and using CCS signaling or EDSL need not be segregated data trunks but can carry voice or data. In this case, the 'normal' route index will be the same as the 'new' data route index. Furthermore, such trunks with CCS signaling can handle traffic at subrates. If the datarate attribute of the trunk members of the trunk group pointed to by this 'new' data route index is 64k, then these trunks can also handle restricted 64k and 56k traffic. In addition, we can have up to three tuples, one for 56k, another for restricted 64k and the third one for 64k traffic. The trunk group pointed to by these tuples can have a higher datarate than that requested. All these three tuples will have the 'normal' route index the same as the 'new' data route index.

**Attribute: route_x**

**Fullname:** Route Index

**Attribute Description** This attribute represents the existing route index chosen based upon the screening and destination indexes or obtained from the Digit Analysis relations.

For EDSL B trunks, it represents the route index obtained from the directory number relations (RLrtdnmod, RLrt_specri), screening or Digit Analysis.

The chosen route index is restricted to those indexes whose trunk groups are interoffice trunks or EDSL B trunks.

**Attribute: datarate**

**Fullname:** Datarate

**Attribute Description** The data rate requested on a data call. It can be:

DATA_56K - for any trunk (segregated or not) able to carry 56 kb/s data calls.

DATA_R64K - for any trunk (segregated or not) able to carry restricted 64 kb/s data calls.

DATA_64K - for any trunk (segregated or not) able to carry 64 kb/s data calls.

DATA_NULL - for any trunk capable of carrying speech calls.

Refer to checks section of the data_rtx attribute for enforcement of correct datarate.

**Attribute: data_rtx**

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**Fullname:** New Data Route Index

**Attribute Description** This attribute indicates the new route index for data or speech calls at the specified rate.

A tuple with this attribute as key must exist in RLRT_ROUTING and the 'route_type' field in this tuple must be set to RTE_HUNT.

This tuple will also have its 'portgrp.grpnum' field designating the trunk group that will support the data or speech call at the specified data rate.

If the trunk is segregated for data and the datarate is not DATA_NULL, then the data route index, 'data_rtx', should not appear in any of the following:

RLrt_scrning, the Digit Analysis relations (RLdaprlfnl or RLdaprmfnl) or in the directory number relations (RLrtdnmod or RLrt_specri). If the trunk is using CCS signaling (if the out_sigtype is DBISUP7 or DBCCIS6 ) or if it is an EDSL B trunk group using both voice and data then the data route index 'data_rtx' may appear in any of the previous relations.

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# RT_EDN

## 1. Description

This relation contains the alternate emergency DN terminating translations.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| spare space | 16s |

## 3. Field Layout

```
RT_EDN      relid = 659   DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL


     dn           DMLOCDN      (struct)  <--- key
         noc          DMNOC        (ushort: 14)
         digits       DMLOCDIG     (array [ 4 ] of char )
     lport        DMLPORT      (ushort: 16)
     ltm_idx      DMLTM_IDX    (ulong: 16)
     caseindex    DMCASEMAX    (ushort: 9)
     lrn_idx      DMUNS7       (ushort: 7)
     vlr_sm       DMMODULE     (ushort: 8)
 (a) termclass    DMTERMCLASS  (enum: 4)
 (b) term_name    DMPARTY      (ushort: 4)
     pin4         DMBCD        (ushort: 4)
     pin3         DMBCD        (ushort: 4)
     pin2         DMBCD        (ushort: 4)
     pin1         DMBCD        (ushort: 4)
 (c) lpt_type     DMLPT_TYPE   (enum: 2)
 (d) mdn_rngpat   DMMDNDRING   (enum: 2)
 (e) client_typ   DMMSSCLIENT  (enum: 2)
 (f) deny_term    DMBOOL       (enum: 1)
 (g) calltrc      DMBOOL       (enum: 1)
 (h) denybv       DMBOOL       (enum: 1)
 (i) ucd_muph     DMBOOL       (enum: 1)
 (j) mctran       DMBOOL       (enum: 1)
 (k) ltsb_pt      DMBOOL       (enum: 1)
 (l) ltm_type     DMLTM_TYPE   (enum: 1)
 (m) no_hunt      DMBOOL       (enum: 1)
 (n) mdn_depend   DMBOOL       (enum: 1)
 (o) rdta_port    DMBOOL       (enum: 1)
 (p) ind_inwats   DMBOOL       (enum: 1)
 (q) scp_alw      DMBOOL       (enum: 1)
 (r) ncdt         DMBOOL       (enum: 1)
 (s) ffcf1        DMBOOL       (enum: 1)
 (t) ffcf2        DMBOOL       (enum: 1)
 (u) ffcf3        DMBOOL       (enum: 1)
     portname     DMGPORT      (struct)
         member       DMPORT       (ushort)
         module       DMMODULE     (ushort: 8)
```

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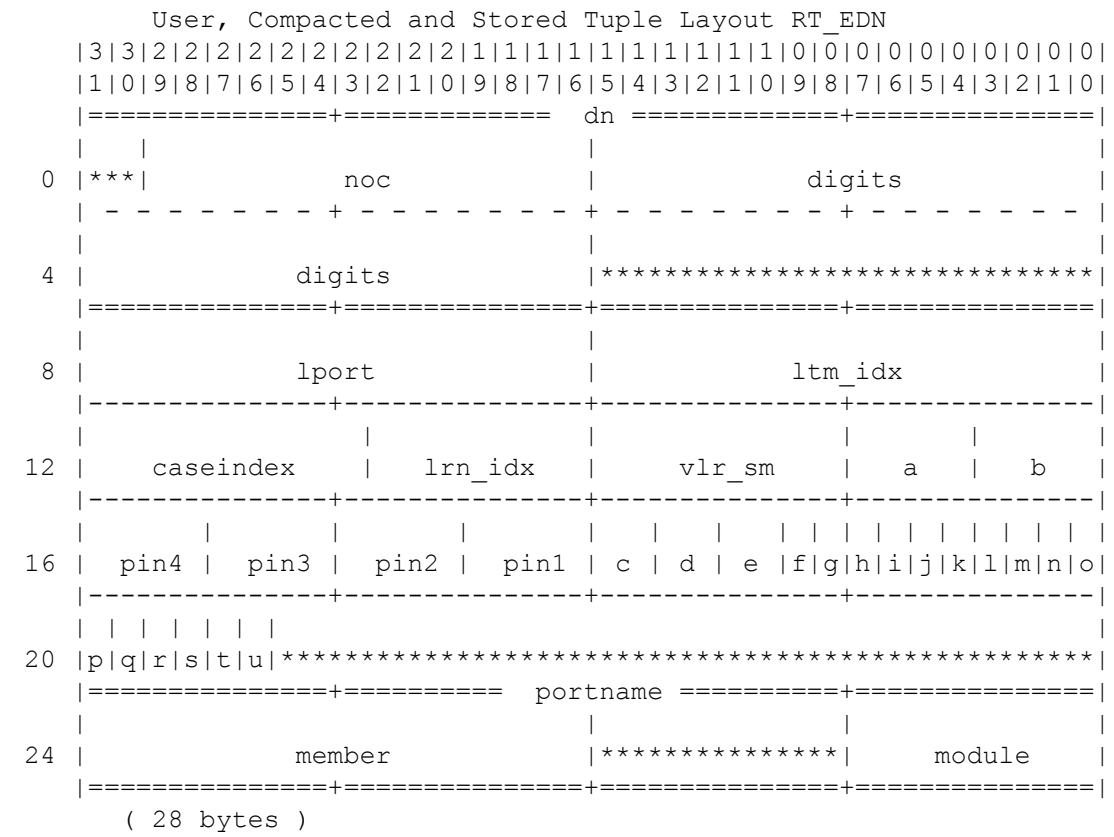


## 4. Population rules for RLrt_edn

### Relation Description

Alternate emergency DN terminating translations

Alternate emergency DN terminating translations.

**Attribute:**
dn
**Fullname:**
Terminating directory number
**Attribute Description:**
This attribute consists of the NOC (normalized office code) and four directory number digits.

**Attribute:**
dn.noc
**Fullname:**
Normalized office code
**Attribute Description:**
Normalized office code

**Attribute:**

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dn.digits

**Fullname:**

Digits

**Attribute Description:**

The local dn minus the office code.

**Attribute:**

termclass

**Fullname:**

Termination class

**Attribute Description:**

The terminating class of service. Only the following termination classes are valid:

RTTC_INDIVID - individual line
RTTC_PARTY - party line

For Export, must be RTTC_INDIVID only.

**Attribute:**

deny_term

**Fullname:**

Denied termination

**Attribute Description:**

Deny termination. Line should not be allowed to receive calls.

If the line has circuit switching, default is DBNO; otherwise, default is DBYES.

**Attribute:**

portname

**Fullname:**

Portname

**Attribute Description:**

Defines the port. Divided into sub-attributes portname.member and portname.module. In each module, tuples exist only for directory numbers with line equipment numbers (LEN's) that physically exist on the module being considered. If the current module = X, then RLRT_EDN.portname.module = X (X can not identify a RSM or a module with the stand alone call processing option). If ltm_type is equal to LTM_ISDN, then the portname is that of ISDN lead port or the shared analog portname.

**Attribute:**

portname.member

**Fullname:**

Member

**Attribute Description:**

Port name of a port.

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**Attribute:**
portname.module
**Fullname:**
Module
**Attribute Description:**
The module number that terminates this port.

**Attribute:**
term_name
**Fullname:**
Terminating name
**Attribute Description:**
Must have the value FCP_INDI if the port is a member of a LINE SIDE Stand-Alone Announcement MLH group on a module that has the stand alone call processing option, that is the port points to a MLH group which is local to the module and the parameter GLsalgrp contains that MLH group number.

For servclass FC_ISDN, populate as follows:

```
if ( RLdslequip(portname).briclass == BRI_MP or
     RLdslequip(portname).briclass == BRI_STD)
then term_name is in {0 thru 7}
else term_name is FCP_INDI
```

For servclass TM_XDB, this is populated with FCP_INDI
For servclass FC_ISATND and cpetype IS_TYPATT,
this is populated with FCP_INDI.

If the dn is a multiple dn for a member of a multiline hunt group, the term_name must be the same as for the base dn for the multiline hunt group member that defined in RLfc_line.

**Attribute:**
calltrc
**Fullname:**
Call tracing indicator
**Attribute Description:**
Indicates if calls to thes dn should be traced.
This attribute should always be initialized to
DBNO, since traces require considerable resources.
The field may be updated by recent change on request.
If the tuple is for a multiple dn of a multiline hunt group, this attribute is defaulted to DBNO. This field may be updated by recent change on request for both the base dn or the multiple dn.

**Attribute:**
denybv
**Fullname:**

Deny busy verify capabilities indicator

**Attribute Description:**

Tells if the line has the busy verify service denied. If the dn is a multiple dn for a member of a multiline hunt group, the value of denybv is the same as that of the base dn. While the base dn of a multiline hunt group has multiple dns associated with it, the denybv field is not updatable by recent change.

**Attribute:**

ucd_muph

**Fullname:**

Uniform call distribution hunt group or multiposition hunt subgroup indicator

**Attribute Description:**

Indicates if this is either a UCD group DN, OR a MUPH subgroup DN (DBYES) or none of these (DBNO).
The attribute ucd_muph must always have the value DBNO.

**Attribute:**

mctran

**Fullname:**

Access RLrt_mctra indicator

**Attribute Description:**

Indicates if RLrt_mctr is to be accessed subsequent to reading this relation for private facilities feature (DBYES).
If mctran is DBYES, relation RLrt_mctr is to be read to get terminating sfg.
The attribute mctran must always have the value DBNO.

**Attribute:**

ltsb_pt

**Fullname:**

Line Time Slot Bridging port indicator

**Attribute Description:**

This attribute indicates whether or not this is an LTSB port.
Always set to DBNO in this relation (only used in RLrt_dntran).

**Attribute:**

lpt_type

**Fullname:**

Logical port type

**Attribute Description:**

Indicates the LPORT type to which the lport value associated with this DN belongs. The lpt_type is LPT_ISDN for ISDN BRCS, ISDN PODS, or shared analog lines:

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```
        lpt_type is LPT_ISDN if:
                RLfc_porttyp.servclass == FC_ISDN or
                RLfc_porttyp.servclass == FC_ISATND or
                RLfc_porttyp.sh_analog == DBYES.

        Otherwise:
                lpt_type == LPT_OTHER.

        If this is an ISDN BRCS, ISDN PODS or ISDN-analog
        line, then lpt_type must be LPT_ISDN and
        the portname is that of ISDN lead port or shared
        analog portname.
```

**Attribute:**
ltm_type
**Fullname:**
Logical termination index type
**Attribute Description:**

```
        Indicates the LTM_IDX type to which the ltm_idx value
        associated with this DN belongs.

        ltm_type is LTM_ISDN if
        1) this is a primary DN on a DSL
           (RLis_line.primary is DBYES and
           RLis_term.cprtyp is IS_TYPEA, IS_TYPEB, IS_TYPEC,
           IS_TYPED, IS_TYPEE, or IS_TYPATT) , or
        2) this is the primary DN of a shared analog line
           (RLfc_porttyp.sh_analog is DBYES) or
        3) it is a secondary-only DN (RLis_line.primary is DBNO).

        If this is an ISDN DSL or a shared analog line,
        or a secondary-only DN
        then ltm_type must be LTM_ISDN and
        the portname is that of ISDN lead DSL port or
        the shared analog portname.

        Otherwise ltm_type must be LTM_OTHER.

        For the following case,
        ltm_type = LTM_OTHER and ltm_idx = 0

        1) RLrt_dntran.portname.module = 0 and
           RLrt_dntran.portname.member = 0.
        2) RLfc_porttyp.servclass is FC_ISDN and RLis_term.cpetype
           is not IS_TYPEA, IS_TYPEB, IS_TYPEC, IS_TYPED, IS_TYPEE
           or IS_TYPATT.
```

**Attribute:**
lport
**Fullname:**
Logical port

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**Attribute Description:**
Logical port which is a sequential number of physical ports when they are assigned. The lport is preserved during office growth or office ODD reprocessing.

**Attribute:**
ltm_idx
**Fullname:**
Logical termination index
**Attribute Description:**
A RC/ODA assigned ltm_idx value. This index is a sequential number assigned to correspond to the DN of this relation. The ltm_idx is preserved during office growth or offline ODD reprocessing.

See RLrt_dntran.ltm_idx for more information.

**Attribute:**
no_hunt
**Fullname:**
No-hunt indicator
**Attribute Description:**
If DBYES then calls to this DN should only terminate to the equivalent hunt group member, not hunt to other hunt group members.

If nohunt is DBYES, then termclass must be RTTC_PORTGRP or RTTC_INWATS. The group DN of a multiline hunt group must always have nohunt set to DBNO. For RTH_UCD, RTH_LGUCD, RTH_ISAT, if nohunt = DBYES then ucd_muph should be set to DBNO (that is when ucd_muph is DBYES, this is the group DN). For members of a multiline hunt group to have a nonhunt dn, the hunt group must have a hunt type of RTH_CIRCULAR, RTH_REGULAR, RT_UCD, RTH_LGCIR, RT_LGUCD, RTH_ISAT, or RTH_LGREG in RLrt_mhg.

**Attribute:**
mdn_depend
**Fullname:**
Multiple DN dependent
**Attribute Description:**
Indicates a dependent DN for Multiple DNs with distinctive ringing. Always DBNO for ISDN lines.

**Attribute:**
mdn_rngpat
**Fullname:**
Multiple DN ringing pattern
**Attribute Description:**
Identifies type of Distinctive Ringing pattern associated with a

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master or dependent DN of a Multiple DN line.
MDN_DR_A is standard ringing (2 sec. on 4 sec. off).

**Attribute:**
pin4
**Fullname:**
Personal identification number digit
**Attribute Description:**
This is the most significant digit of a Binary Coded Decimal (BCD) Personal Identification Number (PIN). It is service order changeable only. The intent of the PIN is to provide each line in the office with a security code for services such as Remote Access Service (RAS) and Automatic Customer Station Rearrangement (ACSR).

Note: if any pin[] is specified, all pins[] must be specified by RC and ODA.
The default value '#' (11) indicates no PIN specified.

**Attribute:**
pin3
**Fullname:**
Personal identification number digit
**Attribute Description:**
This is one digit of a BCD PIN. It is service order changeable only. The intent of the PIN is to provide each line in the office with a security code for services such as RAS and ACSR. Note: if any pin[] is specified, all pins[] must be specified by RC and ODA.

**Attribute:**
pin2
**Fullname:**
Personal identification number digit
**Attribute Description:**
This is one digit of a BCD PIN. It is service order changeable only. The intent of the PIN is to provide each line in the office with a security code for services such as RAS and ACSR. Note: if any pin[] is specified, all pins[] must be specified by RC and ODA.

**Attribute:**
pin1
**Fullname:**
Personal identification number digit
**Attribute Description:**
This is one digit of a BCD PIN. It is service order changeable only. The intent of the PIN is to provide

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each line in the office with a security code for services such as RAS and ACSR. Note: if any pin[] is specified, all pins[] must be specified by RC and ODA.

**Attribute:**
rdta_port
**Fullname:**
Implies tuple is an RDTA TN.
**Attribute Description:**
This attribute is not used in RLrt_edn. It is only used in RLrt_dntran for the Remote Digital Test Access capability. This attribute should always be DBNO in this relation.

**Attribute:**
ind_inwats
**Fullname:**
indicates that this line is an individual INWATS line and is not part of a MLHG
**Attribute Description:**
If this line has a termclass of RTTC_INWATS and is not part of a MLHG then the ind_inwats bit must be set to DBYES

**Attribute:**
client_typ
**Fullname:**
Client TN type sent to message center.
**Attribute Description:**
Indicates the client TN type sent to the voice message system. This attribute is added to this relation just for keeping the data structure identical to that of RLrt_dntran. It always has a default value, since it will never be populated because it only applies to MLHGs & dependent DNs.

**Attribute:**
scp_alw
**Fullname:**
Service Control Point Messaging Allowed
**Attribute Description:**
This attribute will be used to indicate whether or not messages from Service Control Point may be received.

**Attribute:**
ncdt
**Fullname:**
NP - Non-Conditional 10-Digit Trigger for LRN
**Attribute Description:**
This attribute will be used to indicate whether or not the NP - Non-Conditional 10-Digit Trigger for LRN has been enabled

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for this DN.

**Attribute:**
ffcf1
**Fullname:**
boolean reserved for future field feature
**Attribute Description:**
boolean reserved for future field feature

**Attribute:**
ffcf2
**Fullname:**
Future field feature
**Attribute Description:**
Boolean reserved for future field feature.

**Attribute:**
ffcf3
**Fullname:**
boolean reserved for future field feature
**Attribute Description:**
boolean reserved for future field feature

**Attribute:**
vlr_sm
**Fullname:**
VLR SM for Wireless Centrex
**Attribute Description:**
This field is used only for the Wireless Centrex (WCTX) feature.
For non-WCTX, it must be set to the default value 0x0.

**Attribute:**
lrn_idx
**Fullname:**
Location routing number index
**Attribute Description:**
This attribute is a key into the RLlrntbl relation. It is used to
find the location routing number associated with this ported DN.

**Attribute:**
caseindex
**Fullname:**
Case Index
**Attribute Description:**
Index into the CALEA cases

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# RT_EMRNM

## 1. Description

Emergency directory number to local alternate.
This attribute corresponds to the dialed number for an emergency call.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 500 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 512 |
| page level | 0 |

## 3. Field Layout

```
RT_EMRNM    relid = 438   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    GCRTG
     ri          DMSYSID      (short)
 (a) prefix      DMPREFIX     (enum: 3)     <--- key
 (b) type        DMPTYPE      (enum: 1)
     dmdn        DMDN15       (struct)     <--- key
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
     locdn       DMLOCDN      (struct)     <--- compacted
         noc         DMNOC        (ushort: 14)
         digits      DMLOCDIG     (array [ 4 ] of char )
     outdmdn     DMDN15       (struct)     <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
            User Tuple Layout      RT_EMRNM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |     | |                     |
  0 |               ri                |  a  |b|***********************|
    |===============+============  dmdn ============+===============|
    |       |       |                                               |
  4 | digcnt|*******|                       dn                      |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                                 dn                            |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                                 dn                            |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                                 dn                            |
    |===============+============ locdn ============+===============|
    |   |                             |                             |
 20 |***|            noc              |             digits          |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
```

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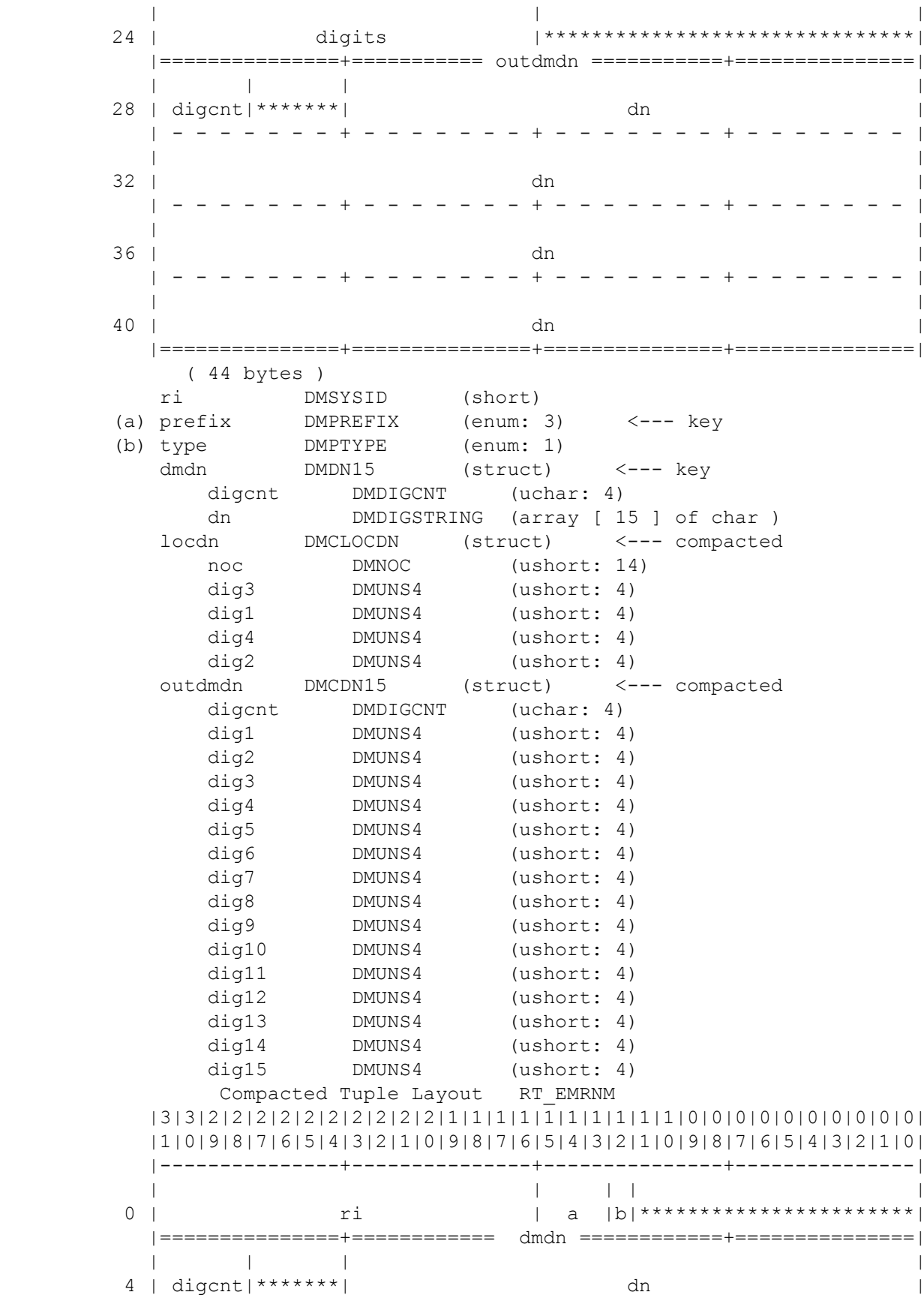


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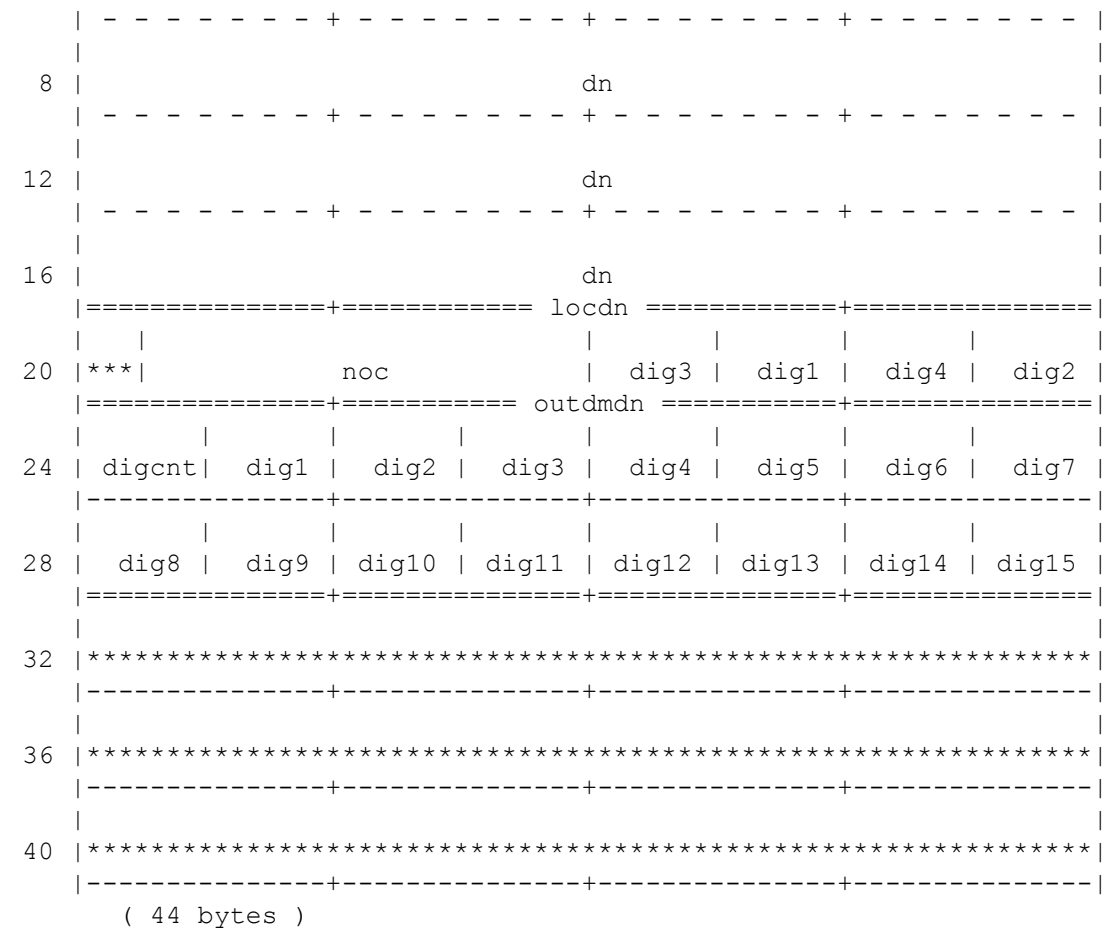


( 44 bytes )

```
    ri          DMSYSID      (short)
(a) prefix      DMPREFIX     (enum: 3)     <--- key
(b) type        DMPTYPE      (enum: 1)
    dmdn        DMDN15       (struct)     <--- key
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
    locdn       DMCLOCDN     (struct)     <--- compacted
        noc         DMNOC        (ushort: 14)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
    outdmdn     DMCDN15      (struct)     <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dig1        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
        dig8        DMUNS4       (ushort: 4)
        dig9        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
```

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```
        dig12       DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
          Stored Tuple Layout     RT_EMRNM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |     | |                       |
  0 |               ri                |  a  |b|***********************|
    |===============+============  dmdn ============+===============|
    |       |       |                                                 |
  4 | digcnt|*******|                       dn                        |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
    |                                                                 |
  8 |                                 dn                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
    |                                                                 |
 12 |                                 dn                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
    |                                                                 |
 16 |                                 dn                              |
    |===============+============ locdn ============+===============|
    |   |                             |       |       |       |       |
 20 |***|            noc              |  dig3 |  dig1 |  dig4 |  dig2 |
    |===============+=========== outdmdn ===========+===============|
    |       |       |       |       |       |       |       |       |
 24 | digcnt|  dig1 |  dig2 |  dig3 |  dig4 |  dig5 |  dig6 |  dig7 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
 28 |  dig8 |  dig9 | dig10 | dig11 | dig12 | dig13 | dig14 | dig15 |
    |===============+===============+===============+===============|
       ( 32 bytes )
```

## 4. Population Rules for RLrt_emrnm

**Relation Description**
Emergency Number.

This relation is used for emergency number dialing.

**Attribute: dmdn**

**Fullname:** Dialed Emergency Directory Number (DN)

**Attribute Description** This attribute corresponds to the dialed number for an emergency call. The attribute is either a specific directory number, or a range of directory numbers that need to have the same alternate routing destination during SM stand-alone operation. The alternate routing destination can be either a DN (attribute locdn), or a route index (attribute ri).

The dialed emergency directory number does not need to be a DN assigned in the local office.

Ranges of DNs are specified by entering the wild card digit '*' in the appropriate DN digit positions. The wild card digit will match any dialed digit at that position. A typical case where a range of DNs is used is when a group of inter-module trunk (IMTs) is being used as a backup alternate route

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during stand-alone operation. All or some set of dialed DNs may be rerouted to the group of IMTs by specifying the appropriate DN range with a route index (attribute ri) that points to the IMTs. It is important to note that IMTs can be exhausted quickly when standalone operation occurs.

Only the following digit expressions are valid for this dmdn attribute:

```
0                   Reroute calls destined for operator.
XXX                 Reroute three digit dialed calls
                    destined for a specific three digit
                    number (such as, 911, 411).
XXX-XXXX            Reroute seven digit dialed calls
                    destined for a specific DN.
XXX-XXX-XXXX        Reroute ten digit dialed calls
                    destined for a specific DN.
XXXXX-XXX-XXX-XXXX  Reroute fifteen digit dialed calls
                    destined for a specific DN.
XXX-XX**            Reroute seven digit dialed calls
                    destined for a specific hundreds group.
XXX-XXX-XX**        Reroute ten digit dialed calls
                    destined for a specific hundreds group.
XXX-****            Reroute seven digit dialed calls
                    destined for a specific office code.
XXX-XXX-****        Reroute ten digit dialed calls
                    destined for a specific office code.
***-****            Reroute seven digit dialed calls
                    destined for the home area code.
XXX-***-****        Reroute ten digit dialed calls
                    destined for a specific area code.
*-****-***-***-**** Reroute all calls destined for any
                    hundreds group, office code, and area code.
```

The actual digit 'X' and matching wild card digit '*' must be specified in the exact position, quantity, and sequence indicated here. In the event two or more entries match the dialed DN, precedence will be given according to the order of this list. The call will be rerouted to the alternate routing destination specified by the digit expression closest to the top of the list. When an exact match fails, partial matches (additional DB reads) are attempted to find a match with an entry containing wild card digits - first in the hundreds group, then in the office code, then in an area code, and lastly for all calls (15 wild card digits).

The following rule applies only to local SMs (not RSMs, ORMs, and TRMs) which do not have the stand-alone call processing option installed:

```
1. Routing to emergency directory numbers that terminate to
   lines on this module requires that these DNs be populated in
RLRT_EDN.
The maximum number of dialed emergency directory numbers
in the CMP is 500.  An SM with the stand alone
call processing option (Glsacp = DBYES) can have a
maximum of 500 emergency DNs. A non-SM-2000 SM without
the stand alone option can only have up to 10 emergency DNs.
An SM-2000 without the standalone option can have
up to 500 tuples.
```

**Attribute: dmdn.digcnt**

**Fullname:** Digit Count

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**Attribute Description** Used to count the number of digits dialed in an emergency call.

**Attribute: dmdn.dn**

**Fullname:** Dialed number

**Attribute Description** Dialed emergency number.

**Attribute: prefix**

**Fullname:** Prefix

**Attribute Description** The prefix attribute is the other key attribute. It represents the dialed prefix (0+, etc.) to the previous number.

**Attribute: type**

**Fullname:** Type

**Attribute Description** The type attribute identifies the type of port that terminates the emergency route. For a non-remoted module that does not have the stand-alone call processing option, the type attribute always indicates a line (TM_LINE). For the CMP, and all SMs, the type attribute indicates a line (TM_LINE) or a trunk (TM_TRK). If the rerouting is to a line, then the locdn attribute is retrieved. If the rerouting is to a trunk, then the routing index and outdmdn attributes are retrieved.

**Attribute: locdn**

**Fullname:** Local DN

**Attribute Description** The locdn attribute corresponds to a directory number for circuit switched voice and data services which the emergency call is rerouted to. The locdn attribute is only retrieved if the type attribute indicates 'line'. This attribute is populated only if the type attribute indicated 'line'.

The following rule applies only to the CMP:

(1) The DN specified by 'locdn' terminates to a line or trunk on any SM (local, or remote). It is recommended (but not required) that this SM not be the same SM that terminates the emergency DN specified in the key attribute 'dmdn'. In addition, it is recommended (but not required) that the routing module associated with 'locdn' not be the same routing module associated with the key attribute 'dmdn'.

The following rule applies only to RSMs:

(1) The DN specified by 'locdn' terminates to a line or trunk on this RSM or any other RSM in the same multi-module cluster.

The following rule applies only to non-RSMs which have the stand-alone call processing option:

(1) The DN specified by 'locdn' terminates to a line or trunk on this module.

The following rules apply only to non-RSMs which do not have the stand-alone call processing option:

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(1) The DN specified by 'locdn' terminates to a line on this SM. The characteristics of this line are defined in the population rules for the relation RLRT_EDN.

(2) For each RLRT_EMRNM tuple, the relation RLRT_EDN must contain a corresponding tuple with the key RLRT_EMRNM.locdn.

(3) The DN specified by 'locdn' may be the same as the emergency DN specified in key attribute 'dmdn'. This situation will occur if the emergency DN (that is, dmdn) terminates to a line on this SM and this line is of the type defined in the population rules for RLRT_EDN.

**Attribute: locdn.noc**

**Fullname:** Normalized Office Code (NOC)

**Attribute Description** NOC for the 'locdn'.

**Attribute: locdn.digits**

**Fullname:** Digits

**Attribute Description** 'locdn' digits.

**Attribute: ri**

**Fullname:** Route Index

**Attribute Description** The ri attribute corresponds to a routing index, used to reroute the emergency call over a trunk. This attribute is retrieved in conjunction with the outdmdn attribute only when the type attribute indicates 'trunk'.

**Attribute: outdmdn**

**Fullname:** Outpulsed Dialed Emergency Number

**Attribute Description** The outdmdn attribute corresponds to a main directory which is actually outpulsed over the trunk selected for the emergency call reroute. This attribute is retrieved in conjunction with the ri attribute only when the type attribute indicates 'trunk'. This attribute is populated only if the type attribute indicates 'trunk'.

If this attribute is not populated and the type attribute indicates 'trunk', the originally dialed DN (attribute dmdn) will be outpulsed over the trunk. An example is the case where an IMT is being used as the alternate route for a range of DNs (see description of attribute dmdn) and the dialed DN should be outpulsed over the IMT.

**Attribute: outdmdn.digcnt**

**Fullname:** Digit count

**Attribute Description** Outpulsed digit count.

**Attribute: outdmdn.dn**

**Fullname:** Dialed number

**Attribute Description** Outpulsed dialed number.

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# RT_FIXEDRI

## 1. Description

This relation contains the fixed route indices and associated charge indices. This relation is related to RLtatype.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32864 |
| expected number of tuples | 1100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| application | GCRTG |
| relation type | DBSTATIC |

## 3. Field Layout

```
RT_FIXEDRI  relid = 57    DBSTATIC   DBACC_HASH  DBPRAM    LPFR    GCRTG
     noc          DMNOC         (ushort: 14) <--- key
     ri           DMRTEIDX      (ushort: 14)
     ci           DMCHGIDX      (ushort: 11)
     ritype       DMTREAT       (enum) <--- key
         User, Compacted and Stored Tuple Layout RT_FIXEDRI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                             |   |                             |   |
  0 |             noc             |***|              ri             |***|
    |---------------+---------------+---------------+---------------|
    |                       |         |                 |               |
  4 |           ci          |*********|     ritype      |***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLrt_fixedri

**Relation Description**

Fixed route indices and associated charge indices
Defines fixed route indices for each call treatment type. These indices point to trunk groups which provide reorder/announcements, etc.

**Attribute:**

noc

**Fullname:**

Normalized office code (NOC)

**Attribute Description:**

Populated as zero except for automatic intercept system (AIS) operator calls, including 'ritypes' of RT_REGICPT, RT_DENIED, and RT_OOS. RT_BLANK can also have a zero NOC, but should also have entries in this relation, one per NOC, as populated in NOCCODE.

**Attribute:**

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ritype

**Fullname:**

Call treatment type

**Attribute Description:**

For all 'ritypes' in RLtatype which are populated as DBNO for the attribute 'toneind', insert an entry into RLrt_fixedri, using 'ritype' and 'noc' as keys. As well, list terminal maintenance test enumerations that have been assigned route indices.

| RITYPE | Description |
|---|---|
| RT_SCD | Provides routing to a tone or announcement for calls blocked by selective carrier denial (SCD) screening which is a function of the selective carrier denial feature. |
| CC_CGC | Provides routing to a tone or announcement when a circuit group congestion (CGC) backward fail message is received on a common channel signaling (CCS) trunk. Required if the office has any RLFC_TRUNK tuple with 'in_sigtype' or 'out_sigtype' of DBTUP7 or DBISUP7. |
| CC_NNC | Provides routing to a tone or announcement when a national network (trunk) congestion message is received on a CCS trunk. Required if the office has any RLFC_TRUNK tuple with 'in_sigtype' or 'out_sigtype' of DBCCIS6, DBTUP7, or DBISUP7. |
| CC_SEC | Provides routing to a tone or announcement when a switching equipment congestion (SEC) backward fail message is received on a CCS trunk. Required if the office has any RLFC_TRUNK tuple with 'in_sigtype' or 'out_sigtype' of DBCCIS6, DBTUP7, or DBISUP7. |
| CC_SSI | Provides routing to a tone or announcement when a send special information tone (SIT) backward fail message is received on a CCS trunk. Required if the office has any RLFC_TRUNK tuple with 'in_sigtype' or 'out_sigtype' of DBTUP7 or DBISUP7. |
| DG_RESP | Provides routing to a transmission test facility (TTF) responder trunk group of logical test ports (LTPs) with a class of service of DGLTPTTF. This trunk group must be a different trunk group than that used for the DG_TGEN fixed route type. Required in all offices. |
| DG_TGEN | Provides routing to a TTF tone generator trunk group of LTPs with a class of service of DGLTPTTF. This trunk group must be a different trunk group than that used for the DG_RESP fixed route type. Required in all offices. |
| DN_RESP | Provides routing to a TTF responder trunk group of LTPs with a class of service of DN_ELS_TTF. This trunk group is used by the electronic loop segregation (ELS) testing. Required in all offices with RLCKTDATA |

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| | |
|---|---|
| | tuples with a type attribute equal to PCLCCOMDAC (equipped with a 4AC line unit). |
| FC_ANSTO | Provides routing to a tone or announcement for timeout waiting for answer on feature group B (FGB) or FGD-incoming (INC) calls. Required before carrier interconnect is activated in an office. |
| FC_DC_OFHK | Provides routing to a tone or announcement when no second start dial wink (SSD) has been received on a direct trunk from an inter-LATA carrier. Required before carrier interconnect is activated in an office. |
| FC_IEC_FAIL | Provides routing to a tone or announcement when a termination failure occurred during signaling. Required before carrier inter-connect is activated in an office. |
| FC_IV_NO_DIG | Provides routing to a tone or announcement for cases when an invalid number of digits has been received from an inter-LATA carrier. Required if the office has any RLFC_PORTTYP tuple with a class of service of FC_IEC. |
| FC_NO_ACK | Provides routing to a tone or announcement when no acknowledgement wink has been received from a carrier. Required before carrier interconnect is activated in an office. |
| FC_NO_SSD | Provides routing to a tone or announcement when no second start dial wink has been received from an international carrier. Required before carrier interconnect is activated in an office. |
| FC_NO_START | Provides routing to a tone or announcement when no start signal has been received from a carrier. Required before carrier interconnect is activated in an office. |
| FC_OS_ANI_TO | Provides routing to a tone or announcement when timeout waiting for automatic number identification (ANI) request from an operator facility. Required before carrier interconnect is activated in an office. |
| FC_SSD_OFHK | Provides routing to a tone or announcement when an offhook instead of a second start dial wink is received from a carrier. Required before carrier interconnect is activated in an office. |
| NM_EA1 | Provides routing to emergency announcement 1 for network management. Required if the office has an Engineering and Administrative Data Acquisition System (EADAS) LINK. |
| NM_EA2 | Provides routing to emergency announcement 2 for network management. Required if the office has an EADAS LINK. |
| NM_NCA | Provides routing to the national congestion announcement for network management. |

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| | |
|---|---|
| | Required if the office has an EADAS LINK. |
| NM_DSNICA | Provides routing to the defense switched network (DSN) isolated codes announcement for network management. Required in all DSN offices (that is, when Gldsnopt equals DBYES). |
| RT_ACT_PROCERR | Provides routing to an announcement when the unidentified call rejection (UCR) activation code is dialed. |
| RT_BADDATA | Provides routing to tone or announcement. Used when routing could not be completed since bad (invalid data--static or dynamic) has been encountered by the routing software. Required in all offices. |
| RT_BLANK | Provides routing to tone or announcement for attempting to terminate to a vacant number. Populated one tuple per office NOC (when the NOC is non-zero). This is required in all offices. If the office has any RLfc_trunk.in_sigtype or out_sigtype of DBISUP7 a tuple is also required with a NOC of zero. |
| RT_CAC | Provides routing to a tone or announcement for invalid calls from charge-a-call line. Required in all offices. |
| RT_CMONI | Provides routing to a centralized automatic message accounting (CAMA) operator keying trunk group. Required if there is a service class of FC_CP_KEYING in RLFC_PORTTYP. |
| RT_DEAC_PROCER | Provides routing to an announcement when the UCR deactivation code is dialed. |
| RT_DENIED | Provides routing for attempted calls to lines denied termination. This termination may be to AIS or announcement. Required if a 'deny_term' attribute in RT_DNTRAN is DBYES. |
| RT_DENY_ORIG | Provides routing for attempted calls to lines which have the UCR feature assigned. UCR rejects calls originating which specify the call as private. Required for offices which purchase the UCR secured feature. This termination must be an announcement. |
| RT_HNPA | Provides routing for calls where the home numbering plan area (NPA) was dialed but is not allowed. Required when 'desttype' attribute is set to FCHNPA in RLDAPRMDGT. |
| RT_HOSTSA | A tuple in RT_FIXEDRI for RT_HOSTSA will route calls switched through the host 5ESS(R)-2000 switch to a stand-alone announcement (via a 13A announcement machine or equivalent) if a switching module (SM) or remote SM (RSM) required to route or terminate the call should happen to be in stand-alone. The tuple for RT_HOSTSA will point to a route index which in turn points to a trunk group containing the trunk port(s) of these host stand-alone announcements. |

For international, population with this 'ritype' will affect the system in the following way. A trunk group will be

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needed for the stand-alone announcement(s). This must be reflected in the following relations: RLfc_trunk, RLgroup_port, RLimtgrps, RLport_group, RLrctgrprk RLrc_trk, RLrt_routing, and RT_trkg. This trunk group will need a route index, which must be reflected in this relation (RLrt_fixedri), the RLrcrtirmk, and the RLrt_routing relations. Finally, a port member(s) will be needed. This must be reflected in the RLfc_anounce, RLfc_porttyp, RLfc_trunk, RLgroup_port RLport_group, and RLqkeyport relations, (RLqkeyport, since announcement trunks are rotate hunted).

The 'ritype' of 'RT_HOSTSA' is selected when the following conditions occur. When the host 5ESS(R)-2000 switch office has been engineered for a host stand-alone announcement, a call (either originated in the office or entering the office via trunk) desiring routing or termination on a module that is isolated from the rest of the host 5ESS(R)-2000 switch, will receive the fixed route type of 'RT_HOSTSA'.
The 'ritype' of 'RT_RSMSA' is selected when the following conditions occur. If a module with the stand-alone call processing option has been engineered for the stand-alone announcement, the following events will occur:

1. A call, originated in the module, and destined for termination outside of the module, will be checked for stand-alone emergency number treatment.
2. If the dialed number is not located in the RLrt_emrnm relation, it will be checked for stand-alone multi-line hunt group (MLHG) treatment.
3. If the dialed number is not located in the RLrtgrpdn relation, it will receive the fixed route type of 'RT_RSMSA'.

RT_INSID — Provides routing for coin calls where an insufficient initial coin deposit was made. Required for all offices equipped with a line unit or digital carrier line unit (DCLU).

RT_INV10XX — Provides routing for the following 10XXX dialing errors:
- An inter-exchange carrier ID was dialed on an international call.
- An international carrier ID was dialed on a U.S. call.

Required when RLDAPRLDGT contains any tuple with attribute row equal to FC_CARRIER.

RT_INVPIC — Provides routing to a tone or announcement when a presubscribed inter-exchange carrier (PIC) cannot be used to handle the type of call dialed. Required before carrier interconnect is activated in an office.

RT_INVDIG — Provides tone or announcement treatment

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| | |
|---|---|
| | when invalid digits are dialed. The fixed route type is set to RT_INVDIG when an invalid digit string (containing a '#' or '') is received during digit reception on a line or trunk. Required in all offices. |
| RT_LCOP | Provides routing to a local coin overtime prompt. Required in all offices having either a line unit or DCLU. |
| RT_NO10XX | Provides routing to a tone or announcement when a call cannot be dialed with the 10XXX prefix. Required before carrier interconnect is activated in an office. |
| RT_NO911 | Provides tone or announcement for offices not having the 911 feature. Not currently used. |
| RT_NODLTN | Provides routing to a local overload/no resources available announcement. Indicates that no dial tone could be applied to an originating customer. Required in all offices. |
| RT_XMTR | Provides routing for calls when no transmitter (universal tone generator [UTG]) is available for outpulsing. Required in all offices. |
| RT_NWBLK | Provides routing for calls between two SMs when the path through the time multiplexed switch (TMS) is blocked. Required in all offices. When this relation is populated for an RSM and RITYPE is equal to RT_NWBLK, (all RSM-host time slots are busy), then route index (RI) should point to a trunk group, for an announcement or reorder on that RSM. |
| RT_OLSPD | Provides routing to a tone or announcement for 1+ calls from stations denied sent paid (direct distance dialing [DDD]) billing. Required for all Operator Services Position System (OSPS) offices. |
| RT_OOS | Provides routing to tone or announcement for calls terminating to out-of-service (OOS) lines, including those that are high-and-wet, disabled or family of equipment. It is recommended that this have an RI that has the 'route-type' populated in RLRT_ROUTING as RTE_BUSY. Populated one tuple per office NOC. Required in all offices. |
| RT_OVLD | Provides routing for calls denied due to overload conditions. Required in all offices. |
| RT_PDIAL | Provides partial dial tone or announcement routing. Required in all offices. |
| RT_PPBPC | Provides routing to an announcement when a precedence call with equal or higher precedence prevents (or blocks) a call from being completed. At least one tuple is required with this announcement type in all offices utilizing the automatic voice network (AUTOVON) interface capability. |
| RT_PPBPR | Provides routing to an announcement when a non-preemptable call prevents the completion of a precedence call. At least one tuple is required |

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| | |
|---|---|
| | with this announcement type in all offices utilizing the AUTOVON interface capability. |
| RT_PPNAV | Provides routing to an announcement when a call involving a non-AUTOVON user has been preempted so that a priority government call can be completed. At least one tuple is required with this announcement type in all offices utilizing the AUTOVON interface capability. |
| RT_PPUAP | Provides routing to an announcement when the caller is attempting to make a call with an unauthorized precedence level. At least one tuple is required with this announcement type in all offices utilizing the AUTOVON interface capability. |
| RT_PPVAC | Provides routing to an announcement when a call cannot be completed as dialed. At least one tuple is required with this announcement type in all offices utilizing the AUTOVON interface capability. |
| RT_PPPAL | Provides routing to an announcement when a call is blocked due to precedence access threshold limit exceeded. Required in AUTOVON interface or digital switched network (DSN) office using position acknowledgement timeout (PAT). |
| RT_PRMSIG | Provides permanent signal tone or announcement routing. Required in all offices. |
| RT_PFXERROR | Provides tone or announcement routing when the calling party dials a prefix when it should be omitted. Not currently used. |
| RT_MISRLRN | Provides tone or announcement routing when an ISUP Release Cause Code of 26 "Misrouted Call to a Portable Number" is received. If this fixed route type is not provisioned, RT_REORDER is used. |
| RT_REGICPT | Provides routing to tone or announcement for calls that should have regular intercept treatment applied. Populated one tuple per office NOC. Required in all offices having 'AGING' lines. |
| RT_REORDER | Provides routing to reorder. Required in all offices. |
| RT_REQ10XX | Provides routing to a tone or announcement when 10XXX has not been dialed but is required. Required before carrier interconnect is activated in an office. |
| RT_REVRBANN | Provides routing to a tone or announcement when an originating multi-party line is going to be rung back due to multi-party revertive ringing. This is available as part of the REA revertive announcement feature. |
| RT_REVOHANN | Provides routing to a tone or announcement when a terminating multi-party line goes offhook after being rung back due to multi-party revertive ringing. This is available as part of the REA revertive announcement feature. |
| RT_RSMSA | Population of this tuple is optional. A tuple in RT_FIXEDRI for RT_RSMSA |

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is required if the office contains any modules which are equipped with a stand-alone announcement provided by a 13A announcement machine. The tuple for RT_RSMSA will point to a route index which in turn points to a trunk group containing the trunk port(s) for this stand-alone announcement.
A tuple for RT_RSMSA is not required if no module in the office provides a 13A stand-alone announcement and, in particular, is not required if all the modules in the office which are supplying a stand-alone announcement are doing so via a line-side announcement machine.

For international, population with this 'ritype' will affect the system in the following way. A trunk group will be needed for the stand-alone announcement(s). This must be reflected in the following relations: RLfc_trunk, RLgroup_port, RLimtgrps, RLport_group, RLrctgrprk RLrc_trk, RLrt_routing, and RT_trkg. This trunk group will need a route index, which must be reflected in this relation (RLrt_fixedri), the RLrcrtirmk, and the RLrt_routing relations. Finally, a port member(s) will be needed. This must be reflected in the RLfc_anounce, RLfc_porttyp, RLfc_trunk, RLgroup_port, RLport_group, and RLqkeyport relations (RLqkeyport, since announcement trunks are rotate hunted).

The 'ritype' of 'RT_HOSTSA' is selected when the following conditions occur. When the host 5ESS(R)-2000 switch office has been engineered for a host stand-alone announcement, a call (either originated in the office or entering the office via trunk) desiring routing or termination on a module that is isolated from the rest of the host 5ESS(R)-2000 switch, will receive the fixed route type of 'RT_HOSTSA'.

The 'ritype' of 'RT_RSMSA' is selected when the following conditions occur. If a module with the stand-alone call processing option has been engineered for the stand-alone announcement, the following events will occur:

1. A call, originated in the module, and destined for termination outside of the module, will be checked for stand-alone emergency number treatment.
2. If the dialed number is not located in the RLrt_emrnm relation, it will be checked for stand-alone MLHG treatment.
3. If the dialed number is not located in the RLrtgrpdn relation, it will receive the fixed route type of 'RT_RSMSA'.

RT_RTGTRBL Provides routing to reorder or routing trouble announcement. Indicates that an

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internal software failure has occurred and the cause of the failure is indeterminate. In most instances, attempting the call later should result in a successful termination. Required in all offices.

RT_SSEA — Provides routing to tone or announcement for calls in which a special services access code was dialed and should not been dialed. Required in all offices.

RT_VACANT — Provides tone or announcement routing for vacant code calls. Required if RLDAPRMDGT has any tuple with a 'desttype' of FCVACANT.

RT_WATS_DENIED — Provides routing to tone or announcement for calls that are denied wide area telephone service (WATS) usage. Not currently used.

RT_OEAS_ERR — Provides routing to a tone or announcement when a call is routed to an OSPS using equal access signaling, but the carrier specified through the signaling cannot handle the call. Required if the office is an AT&T toll and assistance (T&A) OSPS office.

RT_DFLT_FAIL — Provides routing to reorder or announcements (error treatment) for denied calls (invalid digits dialed) made by the 'default' user in the multpoint-DSL and point-to-point DSL environment.

DESCRIPTION:
Defines the fixed route index type RT_DFLT_FAIL which specifies the fixed route index which points to the trunk group that provides error treatment of reorder/announcement cetera to the 'default' user in the multipoint digital subscriber line (MDSL) and point-to-point DSL environment.
If there exists a tuple in RLbfgmatch where RLbfgmatch.def_svc is DBYES, there must exist one tuple in RLrt_fixedri where RLrt_fixedri.ritype is RT_DFLT_FAIL. (This check is implemented in RLbfgmatch.)
QUANTITY OF TUPLES:
One tuple of type RT_DLFT_FAIL.
TUPLE SEMANTICS:
ritype - RT_DFLT_FAIL
ri - Assigned by office. This route index will point to a trunk group that provides the reorder or the announcement (could be a general/customized announcement) trunk group.
ci - Assigned by office.
noc - Zero.

RT_CWDBUSY — Provides routing for the Call Waiting Deluxe (CWD) Special Feature using CWD BUSY Announcement given by 13A or 14A. This will route to an idle port from a trunk group defined in the RLrt_trkg relation.

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```
RT_CWDHOLD      Provides routing for the Call Waiting Deluxe (CWD)
                Special Feature using CWD HOLD Announcement given by
                13A or 14A. This will route to an idle port from a
                trunk group defined in the RLrt_trkg relation.
RT_CWDREMDR     Provides routing for the Call Waiting Deluxe
                (CWD) Special Feature using CWD REMINDER
                Announcement given by 13A or 14A.  This will
                route to an idle port from a trunk group
                defined in the RLrt_trkg relation.
RT_CWDDFANC     Provides routing for the Call Waiting Deluxe
                (CWD) Special Feature using CWD DEFAULT
                Announcement given by 13A or 14A.  This will
                route to an idle port from a trunk group
                defined in the RLrt_trkg relation.

Valid Fixed Route Types, for LTD and TLWS Terminal Maintenance
---------------------------------------------------------------
ritype          Usage and Requirements
------          ----------------------
TM_BTBK         Provides routing to a TTF tone decoder
                during office-to-office testing of
                lines being transferred from a crossbar or
                ESS(TM) office to the 5ESS(R)-2000 switch office.
                The tone decoder is used to detect traffic busy or test
                blockage conditions on the line under test.
                Not required if the office has no lines or if
                the office being replaced is a step-by-step.
                switch; otherwise it is required.
TMTSTTK         Provides routing to first available member
                of a first in/first out (FIFO) hunted trunk
                group containing outgoing local test desk (LTD)
                test trunk circuits.  Used for line originated
                LTD call.  Refer to LTD population rules section.
        RLrt_fixedri (outgoing local test desk - OG LTD)
                fixed route TYPE = TMTSTTK
        DESCRIPTION:
        This relation specifies the route index which
        points to the trunk group for outgoing LTD
        connections.  Outgoing LTD trunks provide access
        to external test systems (LTD, mechanized loop
        testing [MLT], Fortel, etc.) for test calls
        initiated at the subscriber line.  This route
        index is applicable only for the OG LTD
        trunk group containing trunks within host
        office (non-remote) modules.
        Routing for OG LTD test calls are handled
        differently for remote modules (RSM, optically remote
        SM [ORM], two-mile ORM [TRM], multi-module RSM [MMRSM]
        cluster, etc.) than they are for modules within the host
        office.  This difference in handling is dictated by the
        lack of metallic linkage to the host office.  The three-digit
        or seven-digit OG LTD test code may be the same for the
        entire office, including remote the modules.  This test
        code will point to a fixed route type of TMTSTTK.  The
```

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route index associated with type TMTSTTK, however, will be applicable only to modules in the host office, and will point to the trunk group containing all OG LTD test trunks in the host office.
Each remote module/cluster which is not metallically linked to the host office must have its own outgoing LTD trunk group (containing one or more trunk members). The route index assigned to that trunk group must be unique from that associated with TMTSTTK. This route index must be populated in the parameter Glltdri for the remote module. When an OG LTD call is made using the access code, a check is made on the type of module from which the call originated. If it is a host office module, routing is done via rixed route type TMTSTTK. If it is a remote module, the code routes to the trunk group in the module via the route index contained in Glltdri.
Note that incoming LTD test trunks are not hunted and do not use route indices. Therefore this relation is not applicable for incoming LTD test trunk groups.
QUANTITY OF TUPLES:
One tuple is required in RLrt_fixedri for fixed route type TMTSTTK specifying the route index associated with the host office OG LTD trunk group.
TUPLE SEMANTICS:
RLrt_fixedri attributes should be populated as shown here. Any attribute not specified should be populated with the default value.

| | |
|---|---|
| noc | - Zero. |
| ritype (KEY) | - TMTSTTK. |
| ri | - Route index of host office OG LTD trunk group. |

| | |
|---|---|
| TM_CSTL | Provides routing to first available member of trunk group containing outgoing LTD test trunk circuits wired to the coin station test line (CSTL). Used for CSTL test calls originated from coin lines. Required in all offices having CSTL equipment. |
| TM_ICSRTT | Provides routing to the TTF touch tone test line circuit during operation test of subscriber touch tone pad. The touch tone test is used by two 5ESS(R)-2000 switch features, LTD and station ringer touch tone test. Required in all offices. |
| TM_CBAK | Provides routing to a callback trunk group of logical test ports with a service class of TM_CALLBACK. Required in all offices with integrated mechanized loop testing (IMLT)-2 and trunk and line work station (TLWS).<br>DESCRIPTION:<br>Defines the fixed route index type TM_CBAK which specifies the fixed route index which points to the callback trunk group of logical test ports with servclass TM_CALLBACK. This is required for IMLT-2 and TLWS callback connections. |

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QUANTITY OF TUPLES:
One tuple of type TM_CBAK.
TUPLE SEMANTICS:
ritype - TM_CBAK.
ri - Assigned by office. This route index must point to a trunk group of logical test ports that have a service class of TM_CALLBACK.
ci - Assigned by office.
noc - Zero.

TMAPT — Provides routing for outgoing operational test calls initiated from TLWS or by automatic progression testing (APT). Must route to a group of logical test ports in an SM containing a TTF. Required if the office wishes to run automatic progression tests on its trunks.

TMXMITRIISTF — Provides routing to a transmission test service of the integrated services test function (ISTF). Must route to a group of logical test ports in an SM containing a corresponding entry in RLrt_routing for this RI. The logical test port (LTP) tuples (RLfc_porttyp) must have the attribute servclass set to TM_ISTFXMIT. The 'ritype' TMXMITRIISTF is required if any ISTF transmit (XMIT) LTPs exist.

TMLBRIISTF — Provides routing to a test line service of the ISTF. Must route to a group of logical test ports in an SM containing a corresponding entry in RLrt_routing for this RI. The LTP tuples (RLfc_porttyp) must have the attribute servclass set to TM_ISTFLB. Unlike the XMIT LTPs, the line busy (LB) LTPs can be routed to via dialed digits or fixed RI routing. This 'ritype' is required if any ISTF LB LTPs exist.

TMINTIF — Provides routing for TLWS manual transmission connections. Required in offices with TLWS where TTF is standard equipment.

TMOGTRANS — Provides routing for outgoing transmission test calls initiated from the TLWS. Similar to TMAPT, and can use same RI.

TMICTC — Provides routing for incoming transmission test calls for common channel signaling (CCS) trunks. This fixed routing index should point to a trunk group of TM_ICTC LTPs (that is, RLrctgrprk.servclass equals TM_ICTC). The trunk group of LTPs used for incoming transmission test calls can be used for CCS and non-CCS calls.
The route type of the route index pointed to be this fixed route index in the RT_ROUTING relation should be RTE_HUNT. The route index is strictly used only for CCS calls.
This fixed routing index needs only to be populated for offices with CCS trunks.

TMS96CTST — Provides routing for TTF control port for SLC(R) 96 channel unit testing.

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End of LTD and TLWS Fixed Routes

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| | |
|---|---|
| CC_UIA | The unauthorized inward WATS (INWATS) announcement provides routing to a tone or announcement for an 800 service call at an originating screening office (OSO) for INWATS. It must point to reorder or to an announcement trunk group. The customer is connected to this announcement when the owner of the 800 number being called has not authorized toll free calls from the area code in which the call is being originated. This fixed route type will be required in all toll OSO offices for which destination type FCOSOIWTS is populated in DAPRMDGT. It is also required in the relation TATYPE. |
| CC_NCD | Provides routing to a tone or an announcement for network call denial (NCD). A customer is routed to this announcement when a database query discloses that the calling number is associated with a delinquent AT&T communications (AT&T-C) customer. It must point to an announcement trunk group. The relation TATYPE must include this fixed route type. This must be populated in all point of presence (POP) toll offices. |
| FC_EASMRT | Provides routing to a tone or an announcement for equal access signaling calls misrouted to a toll or AT&T-C switch from an end office or access tandem (calls with unexpected information digits and customer interactive dialing calls). It must point to an announcement trunk group. The relation TATYPE must include this fixed route type. This must be populated in all POP toll offices. |
| RT_ATCANIF | Provides routing to a tone or announcement for ALLIANCE(R) teleconferencing capability for calls experiencing ANI failure. The Telephone Company Administration (TCA) may choose to send it to an announcement or reorder tone on 13A announcement unit. The tuple for RT_ATCANIF will point to a route index which in turn will point to a trunk group containing the trunk port. Required when 'desttype' attribute is set to FCADDON or FCMEETME in RLDAPRMDGT. |
| RT_ATCINT | Provides routing to an intercept announcement for ALLIANCE(R) teleconferencing capability. The exact treatment will be provided by the TCA, but it is expected that they would be routed to an announcement provided by the 13A announcement unit. The tuple for RT_ATCINT will point to a route index which in turn will point to trunk group containing the trunk port. Required when 'desttype' attribute is set to FCADDON or FCMEETME in RLDAPRMDGT. |
| RT_DFLTRT | Provides routing to announcement for |

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Special Feature ASP Default Routing for
3/6/10-Digit Triggers.
The exact treatment will be provided by the
TCA, but it is expected that they would be
routed to an announcement provided by the 13A
announcement unit. The tuple for RT_DFLTRT will
point to a route index which in turn will point
to trunk group containing the trunk port. Required
when 'dfltrt' attribute is set to DFLT_ANNC
in RLDAPRMFNL or RLDAPRLFNL.

Valid Fixed Route Types, for DSU2-RAF/SAS

| ritype | Usage and Requirements |
|---|---|
| RT_EISOSPS | Population of this tuple is optional. Provides routing to OSPS listing services announcements given by the digital service unit model 2 (DSU2)-recorded announcement function (RAF) or SAS. This will route via trunk hunt mechanisms to an idle RAF/SAS port from a group defined in RT_TRKG. This trunk group must be defined as an RAF/SAS announcement group. This fixed route index is mapped to a unique route index for this RAF/SAS application. The route index is mapped to a unique trunk group for this RAF/SAS application. The fixed route index, route index, and trunk group are unique for the application and cannot be used by other applications. However, the FC_RAFANNC service class may be used by more than one application. Each application must have its own trunk group defined, along with a way to route to it. Application check is enforced in RLrt_routing. |
| RT_OSPSDA | Population of this tuple is optional. Provides routing to OSPS directory assistance announcements given by the DSU2-RAF/SAS. This will route via trunk hunt mechanisms to an idle RAF/SAS port from a group defined in RT_TRKG. This trunk group must be defined as an RAF/SAS announcement group. This fixed route index is mapped to a unique route index for this RAF/SAS application. The route index is mapped to a unique trunk group for this RAF/SAS application. The fixed route index, route index, and trunk group are unique for the application and cannot be used by other applications. However, the FC_RAFANNC service class may be used by more than one application. Each application must have its own trunk group defined, along with a way to route to it. Application check is enforced in RLrt_routing. |
| RT_OSPSCOIN | Provides routing to OSPS coin announcements given by the DSU2-RAF/SAS with coin tone receivers (DSU2-RAF-COIN). This will route via trunk hunt mechanisms to an idle RAF/SAS port from a group |

| | |
|---|---|
| | defined in RT_TRKG. This trunk group must be defined as a RAF/SAS announcement group. Required in all OSPS offices having DSU2-RAFs/SASs with coin tone receivers with Glospsta equal to DBYES and Glacts equal to DBYES. This fixed route index is mapped to a unique route index for this RAF/SAS application. The route index is mapped to a unique trunk group for this RAF/SAS application. The fixed route index, route index, and trunk group are unique for the application and cannot be used by other applications. However, the FC_RAFCTR service class may be used by more than one application. Each application must have its own trunk group defined, along with a way to route to it.<br>Application check is enforced in RLrt_routing. |
| RT_OSPSAOC | Provides routing to OSPS more efficient call handling (MECH) announcements given by DSU2-RAF-COIN and DSU2-RAF-DTA RAFs/SASs. This will route via trunk hunt mechanisms to an idle RAF/SAS port from a group defined in RT_TRKG. This trunk group must be defined as a RAF/SAS announcement group. Required in all OSPS offices having DSU2-RAFs/SASs with coin tone receivers or tone decoders with Glospsta equal to DBYES and Glmecfw greater than zero.<br>No application check is enforced in RLrt_routing. |
| RT_OSPS_ACCS | Provides routing to OSPS automated calling card service announcements given by the DSU2-RAF/SAS with the dial-through-announcement capability. Required in all OSPS offices (if office parameter Glospsta is equal to DBYES). This trunk group must be defined as a DSU2-RAF dial through announcement (DTA) or SAS group. This fixed route index is mapped to a unique route index for this RAF/SAS application. The route index is mapped to a unique trunk group for this RAF/SAS application. The fixed route index, route index, and trunk group are unique for the application and cannot be used by other applications. However, the FC_RAFDTA service class may be used by more than one application. Each application must have its own trunk group defined, along with a way to route to it.<br>Application check is enforced in RLrt_routing. |
| RT_NSANNC | Provides routing to network services - PVN announcements given by the DSU2-RAF-DTA or SAS. This will route to an idle RAF/SAS port from a trunk group defined in the RLrt_trkg relation. This trunk group must be defined as DSU2-RAF-DTA or SAS. |
| RT_ACSR | Provides routing to automatic customer station rearrangement announcements given by the |

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```
                DSU2-RAF-DTA or SAS.  This trunk group must be defined
                as a DSU2-RAF/SAS group.  That is, RLrt_trkg.type
                must equal RTRAF for this trunk group.
                Application check is enforced in RLrt_routing.
                DESCRIPTION:
                Defines the fixed route index type RT_ACSR
                which specifies the fixed route index which
                points to the trunk group that provides ACSR
                announcements given by the DSU2-RAF/SAS. This group
                must be a DSU-RAF/SAS trunk group. That is
                RLrt_trkg.type must equal RTRAF for this trunk
                group.
                QUANTITY OF TUPLES:
                One tuple of type RT_ACSR.
                TUPLE SEMANTICS:
                ritype  - RT_ACSR.
                ri      - Assigned by office.  This route index will
                          point to a trunk group that provides ACSR
                          announcements given by the DSU2-RAF/SAS.
                ci      - Assigned by office.
                noc     - Assigned by office.
RT_SLE          Provides routing to local area signaling service
                (LASS) screen list editing (SLE) announcements given
                by the DSU2-RAF-DTA or SAS.  This trunk group must be
                defined as a DSU2-RAF/SAS group.  The RLrt_trkg.type
                must be equal to RTRAF for this trunk group.
                DESCRIPTION:
                Defines the fixed route index type RT_SLE which
                specifies the fixed route index which points to
                the trunk group that provides SLE announcements
                given by the DSU2-RAF/SAS.  This group must be a
                DSU-RAF/SAS trunk group.  That is RLrt_trkg.type
                must equal RTRAF for this trunk group.
                QUANTITY OF TUPLES:
                One tuple of type RT_SLE.
                TUPLE SEMANTICS:
                ritype  - RT_SLE.
                ri      - Assigned by office.  This route index will
                          point to a trunk group that provides SLE
                          announcements given by the DSU2-RAF/SAS.
                ci      - Assigned by office.
                noc     - Assigned by office.
RT_ALSLE        Provides routing to LASS Screen List
                Editing announcements given by the
                DSU2-RAF DTA. This trunk group must be
                defined as a DSU2-RAF group.
                The RLrctgrprk.servclass must be equal to
                FC_RAFDTA for this trunk group.
                 DESCRIPTION:
                        Defines the fixed route index type RT_ALSLE
                        which specifies the fixed route index which
                        points to the trunk group that provides SLE
                        announcements in an alternate language given
                        by the DSU2-RAF . This group must be a DSU2-RAF
```

```
                    trunk group. That is RLrctgrprk.servclass must
                    be equal to FC_RAFDTA for this trunk group.
                 QUANTITY OF TUPLES:
                    1 tuple of type RT_ALSLE
                 TUPLE SEMANTICS:
                    ritype - RT_ALSLE
                    ri - assigned by office. This route index will
                         point to a trunk group that provides SLE
                         announcements given by the DSU2-RAF.
                    ci - assigned by office
                    noc - assigned by office
RT_2LEVEL        Provides routing to 2-Level automatic callback
                 (AC)/customer originated trace (COT) announcements
                 given by the DSU2-RAF-DTA or SAS.  This trunk group
                 must be defined as a DSU2-RAF/SAS group.  The RLrt_trkg.
                 type must be equal to RTRAF for this trunk group.
                 DESCRIPTION:
                 Defines the fixed route index type RT_2LEVEL which
                 specifies the fixed route index which points to the
                 trunk group that provides 2LEVEL announcements given
                 by the DSU2-RAF/SAS.  This group must be a DSU-RAF/SAS
                 trunk group.  That is RLrt_trkg.type must equal RTRAF
                 for this trunk group.
                 QUANTITY OF TUPLES:
                 One tuple of type RT_2LEVEL.
                 TUPLE SEMANTICS:
                 ritype  - RT_2LEVEL.
                 ri      - Assigned by office.  This route index will
                           point to a trunk group that provides 2LEVEL
                           announcements given by the DSU2-RAF/SAS.
                 ci      - Assigned by office.
                 noc     - Zero.
RT_AL2LVL        Provides routing to 2-Level AC/COT
                 announcements given by the DSU2_RAF DTA.
                 This trunk group must be defined as a
                 DSU2-RAF group. The RLrctgrprk.servclass must be
                 equal to FC_RAFDTA for this trunk group.
                  DESCRIPTION:
                 Defines the fixed route index type RT_AL2LVL which
                 specifies the fixed route index which points to the
                 trunk group that provides 2LEVEL announcements in an
                 alternate language given by the DSU2-RAF. This group
                 must be a DSU2-RAF trunk group.
                 That is the RLrctgrprk.servclass must be equal to
                 FC_RAFDTA for this trunk group.
                  QUANTITY OF TUPLES:
                    1 tuple of type RT_AL2LVL
                  TUPLE SEMANTICS:
                    ritype - RT_AL2LVL
                    ri - assigned by office. This route index will
                         point to a trunk group that provides
                         2LEVEL announcements given by the
                         DSU2-RAF.
                    ci - assigned by office
```

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```
                        noc - 0
RT_TOLL_ACCT    Provides routing to a 5E Toll Account Code SAS
                dial-through-announcement (NOTE: Not DSU2-RAF).
                This will route to an idle SAS port from a trunk
                group defined in the RLrt_trkg relation. The
                RLrt_trkg.type must equal RT_RAF for SAS.
                 QUANTITY OF TUPLES:
                        1 tuple of type RT_TOLL_ACCT
                 TUPLE SEMANTICS:
                        ritype - RT_TOLL_ACCT
                        ri - assigned by office. This route
                             index will point to a trunk group
                             that provides Account Code announcement
                             given by SAS. (Route Index)
                        noc- 0
-------------------------------------------------------------------
End of DSU2-RAF/SAS Fixed Routes
-------------------------------------------------------------------
RT_RASI         Provides routing for the Remotes Access to
                Advanced Service Interface (RASI) feature
                using existing announcements given by the
                DSU2-RAF-DTA.
                This will route to an idle RAF port from a
                trunk group defined in the RLrt_trkg relation.
                This trunk group must be defined as a DSU2-RAF
                DTA.
                NOTE: Routing to an announcement is also provided
                with this type.  This will be used when routing
                to the DSU2-RAF needs to be disabled in order
                to disable RASI.
```

**Attribute:**

ri

**Fullname:**

Route index

**Attribute Description:**

Populate attribute based upon treatment type and trunk group number providing the specified treatment. Route index to trunk group translation can be found in relation RT_ROUTING.

When the ri attribute is non-zero, the route index must be assigned in the routing relation. In addition, if the route index is for one of the intercept treatment types (RT_BLANK, RT_DENIED, RT_OOS, or RT_REGICPT) and has a trunk group assigned to it, then the trunk group must be consistent with that treatment type. This means that the trunk group can not be one of the following types: RTMLHG, RTINCOM, RTISDNLK, RTTMGRP. Usually, these intercept treatment types are assigned to RIs that translate to announcement trunks.

When the NOC is nonzero, the RI(s) specified for AIS are normally translated in relation RT_ROUTING with prefix digits of 0, 1, 3 respectively for ritypes of RT_BLANK, RT_OOS, and RT_REGICPT. This is an option

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and should not be enforced, however, this information may be used for documentation purposes.

**Attribute:**
ci
**Fullname:**
Charge index
**Attribute Description:**
Populate as specified in CHRGIDXEXP.

**Defines:**
"db/DMtreat.h"

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# RT_GPSF

## 1. Description

This relation associates a trunk group with its simulated facility group through a routing index.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8191 |
| expected tuples in relation | 4 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |

## 3. Field Layout

```
RT_GPSF     relid = 533   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    GCRTG
     grpnum      DMGRPNUM     (ushort)     <--- key
     tgid        DMUNS16      (ushort)
     count       DMMEMBER     (ushort)
     mc_ri       DMRTEIDX     (ushort: 14)
 (a) term_sfg    DMBOOL       (enum: 1)
     ccsa_termri  DMRTEIDX     (ushort: 14)
     eon_mcri    DMRTEIDX     (ushort: 14)
         User, Compacted and Stored Tuple Layout    RT_GPSF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |              grpnum            |               tgid            |
    |---------------+---------------+---------------+---------------|
    |                                |                           | | |
  4 |              count             |            mc_ri          |a|*|
    |---------------+---------------+---------------+---------------|
    |                             |  |                           |  |
  8 |         ccsa_termri         |**|           eon_mcri        |**|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLrt_gpsf

**Relation Description**
This relation associates a trunk group with its simulated facility group through a routing index.

This relation associates a trunk group with its Simulated Facility Group (SFG) through a routing index. Tuples of this relation are populated when an incoming CCSA, ESSX SFG, or EON SFG is needed to terminate to members of this trunk group.

**Attribute: grpnum**

**Fullname:** the group number of this trunk group

**Attribute Description**
Verify existence of tuple in RLrt_trkg such that

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```
key rlRT_TRKG.grpnum   = grpnum
rlRT_TRKG.term_sfg = term_sfg.
```

**Attribute: mc_ri**

**Fullname:** SFG route index

**Attribute Description** Route index. This route index leads to the incoming ESSX simulated facility group. If rlRT_GPSF.mc_ri > 0, verify existence of tuple in RLrt_mcrt such that: key rlRT_MCRT.mc_ri = mc_ri and rlRT_MCRT.route_type = RTE_SFG. Also verify existence of tuple in RLrt_tgid such that: key rlRT_TGID.tgid = tgid and rlRT_TGID.term_mcri = mc_ri.

**Attribute: tgid**

**Fullname:** terminal group id

**Attribute Description** If tgid is greater than zero, then verify that rlRT_GPSF.term_sfg = DBYES, and there is at least one tuple in RLdn_feats such that RLdn_feats.tgid = RLrt_gpsf.tgid.

**Attribute: term_sfg**

**Fullname:** terminal Simulated Facility Group (SFG)

**Attribute Description** Indicates if a simulated facility is needed to enter the terminal group using this (key) trunk group. If this tuple is populated then term_sfg must be DBYES. An SFG is needed when term_sfg = DBYES. If DBYES then mc_ri and/or ccsa_termri > 0.

**Attribute: ccsa_termri**

**Fullname:** the CCSA MFC route index

**Attribute Description** MFC feature route index for CCSA. If ccss_termri > 0, verify that a RLrt_mcrt exists such that: key rlRT_MCRT.mc_ri = rlRT_GPSF.ccsa_termri, and rlRT_MCRT.route_type == RTE_SFG.

**Attribute: count**

**Fullname:** count

**Attribute Description** Indicates the number of trunk group members that have terminal group features assigned for this trunk group and terminal group ID equal to tgid.

**Attribute: eon_mcri**

**Fullname:** the EOLN base MFC route index

**Attribute Description** This attribute contains a base MFC route index that leads to an EON SFG when it is added with an EOLN service index from the other relation. SFID218 must be active before this attribute is populated with a non default value.

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# RT_LAPD

## 1. Description

This relation contains the lapd parameters and timer values for layer 2 data links for TR303 RTs. It Also contains leaky bucket timers and thresholds for EOC/TMC path switching, and provisioning masks.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |
| trigger function | TMrt_lapd |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| foldtype | DBDEFAULT |

## 3. Field Layout

```
RT_LAPD     relid = 1746  DBSTATIC   DBACC_HASH  DBPRAM    FP       NULL
     rtname       DMCIRCUIT    (ushort)  <--- key
     t200         DMUSHORT     (ushort)
     sap1n201     DMUSHORT     (ushort)
     t203         DMUSHORT     (ushort)
     n200         DMUCHAR      (uchar)
     k            DMUCHAR      (uchar)
     sap0n201     DMUCHAR      (uchar)
     infra_thr    DMINFTHR     (uchar: 6)
 (a) prov_flag    DMBOOL       (enum: 1)
 (b) dmres_time   DMDMRTIM     (uchar: 4)
 (c) dlres_thr    DMDLRTHR     (uchar: 4)
 (d) dlres_time   DMDLRTIM     (uchar: 4)
 (e) infra_time   DMINFTIM     (uchar: 4)
 (f) dmres_thr    DMDMRTHR     (uchar: 3)
     pvmask1      DMULONG      (ulong)
     pvmask2      DMULONG      (ulong)
         User, Compacted and Stored Tuple Layout    RT_LAPD
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             rtname            |              t200             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            sap1n201           |              t203             |
    |---------------+---------------+---------------+---------------|
    |               |               |               |           | | |
  8 |      n200     |       k       |    sap0n201   | infra_thr |a|*|
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |     |                         |
```

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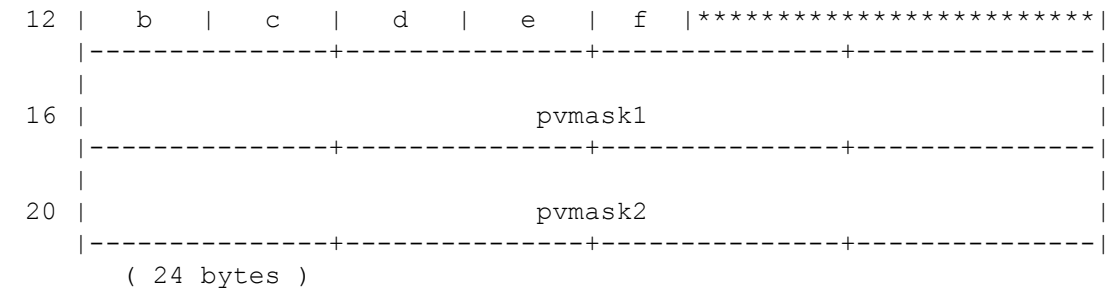


## 4. Population Rules for RLrt_lapd

**Relation Description**
Layer 2 LAPD parameters and EOC/TMC path switching leaky bucket timers and thresholds.

This relation defines the layer 2 LAPD parameters that are used for both the EOC and TMC on TR303 remote terminals (RTs). The leaky bucket timers and thresholds for EOC/TMC path switching are also included.

**Attribute: rtname**

**Fullname:** TR303 Remote Terminal Circuit Name

**Attribute Description** This is the internal circuit name for a TR303 RT.

**Attribute: t200**

**Fullname:** Layer 2 Acknowledgement Timer

**Attribute Description** This is the layer 2 acknowledgement timer.

**Attribute: n200**

**Fullname:** Layer 2 Retransmission Threshold

**Attribute Description** This is the layer 2 retransmission threshold

**Attribute: k**

**Fullname:** Layer 2 Window Size

**Attribute Description** This is the layer 2 window size.

**Attribute: sap0n201**

**Fullname:** SAPI0 Maximum I-field Size

**Attribute Description** This is the maximum I-field size for SAPI0.

**Attribute: sap1n201**

**Fullname:** SAPI1 Maximum I-field Size

**Attribute Description** This is the maximum I-field size for SAPI1.

**Attribute: t203**

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**Fullname:** Link Assurance Timer

**Attribute Description** This is the link assurance timer.

**Attribute: dmres_thr**

**Fullname:** Disconnected Mode (DM) Response Threshold

**Attribute Description** This is the leaky bucket threshold for the DM response error type.

**Attribute: dmres_time**

**Fullname:** Disconnected Mode (DM) Response Timer

**Attribute Description** This is the leaky bucket timer for the DM response error type.

**Attribute: dlres_thr**

**Fullname:** Data Link (DL) Resets Threshold

**Attribute Description** This is the leaky bucket threshold for the DL resets error type.

**Attribute: dlres_time**

**Fullname:** Data Link (DL) Resets Timer

**Attribute Description** This is the leaky bucket timer for the DL resets error type.

**Attribute: infra_thr**

**Fullname:** Invalid Frame Threshold

**Attribute Description** This is the leaky bucket threshold for the invalid frame error type.

**Attribute: infra_time**

**Fullname:** Invalid Frame Timer

**Attribute Description** This is the leaky bucket timer for the invalid frame error type.

**Attribute: pvmask1**

**Fullname:** Provisioning Mask, First 1024 Ports

**Attribute Description** This mask is used by the TR303 RT provisioning process to determine if a port needs to be provisioned on the RT. The masks pvmask1 and pvmask2 represent the 2048 ports that the RT might use for analog or D-channel ports. The mask pvmask1 represents the first group of 1024 ports associated with the RT, with each bit in the mask representing a group of 32 ports, that is, bit 0 is for physical channel unit (CU) positions 1 to 32, bit 1 is for CU positions 33 to 64, etc. and bit 31 is for CU positions 993 to 1024. For TR303 RTs, recent change sets the masks to 0 during RT growth. During line assignment, port conditioning will set the proper bit in the mask corresponding to the group of 32 ports containing the line, if a line cannot be provisioned. ODA for new offices (not retrofitting offices) will set bits in this mask based on the ports in RLfc_porttyp that have the prov attribute set.

This mask will survive retrofit.

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**Attribute: pvmask2**

**Fullname:** Provisioning Mask, Second Group of 1024 Ports

**Attribute Description** This mask is used by the TR303 RT provisioning process to determine if a port needs to be provisioned on the RT. The masks pvmask1 and pvmask2 represent the 2048 ports that the RT might use for analog or D-channel ports. The mask pvmask2 represents the second group of 1024 ports associated with the RT, with each bit in the mask representing a group of 32 ports, that is, bit 0 is for physical channel unit (CU) positions 1025 to 1056, bit 1 is for CU positions 1057 to 1088, etc., and bit 31 is for CU positions 2017 to 2048. For TR303 RTs, recent change sets the masks to 0 during RT growth. During line assignment, port conditioning will set the proper bit in the mask corresponding to the group of 32 ports containing the line, if a line cannot be provisioned. ODA for new offices (not retrofitting offices) will set bits in this mask based on the ports in RLfc_porttyp that have the prov attribute set.

This mask will survive retrofit.

**Attribute: prov_flag**

**Fullname:** Provisioning Flag

**Attribute Description** A value of DBYES for this attribute indicates that the switch should provision the RT. A value of DBNO indicates that the switch should not provision the RT.

This value is recent changeable.

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# RT_LGMEM

## 1. Description

Multiline hunt large group member status.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected number of tuples | 200 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head page size | 2048 |
| data page size | 512 |
| page level | 2 |
| l1 length of subkey 1 | 11 |
| p1 position of subkey 1 | 5 |
| ks key store | DBNO |
| trigger function | RTrclgmem |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ignore key bits | 0-4 |
| permutation type | unperm |

## 3. Field Layout

```
RT_LGMEM    relid = 1219  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     grpnum      DMGRPNUM     (ushort)  <--- key, not stored
     memnum1     DMMHGMEM     (long)
     memnum2     DMMHGMEM     (long)
     memnum3     DMMHGMEM     (long)
     memnum4     DMMHGMEM     (long)
     memnum5     DMMHGMEM     (long)
     memnum6     DMMHGMEM     (long)
     memnum7     DMMHGMEM     (long)
     memnum8     DMMHGMEM     (long)
     memnum9     DMMHGMEM     (long)
     memnum10    DMMHGMEM     (long)
     memnum11    DMMHGMEM     (long)
     memnum12    DMMHGMEM     (long)
     memnum13    DMMHGMEM     (long)
     memnum14    DMMHGMEM     (long)
     memnum15    DMMHGMEM     (long)
     memnum16    DMMHGMEM     (long)
     memnum17    DMMHGMEM     (long)
     memnum18    DMMHGMEM     (long)
     memnum19    DMMHGMEM     (long)
     memnum20    DMMHGMEM     (long)
     memnum21    DMMHGMEM     (long)
     memnum22    DMMHGMEM     (long)
     memnum23    DMMHGMEM     (long)
     memnum24    DMMHGMEM     (long)
     memnum25    DMMHGMEM     (long)
     memnum26    DMMHGMEM     (long)
```

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```
    memnum27    DMMHGMEM     (long)
    memnum28    DMMHGMEM     (long)
    memnum29    DMMHGMEM     (long)
    memnum30    DMMHGMEM     (long)
    memnum31    DMMHGMEM     (long)
    memnum32    DMMHGMEM     (long)
    memnum33    DMMHGMEM     (long)
    memnum34    DMMHGMEM     (long)
    memnum35    DMMHGMEM     (long)
    memnum36    DMMHGMEM     (long)
    memnum37    DMMHGMEM     (long)
    memnum38    DMMHGMEM     (long)
    memnum39    DMMHGMEM     (long)
    memnum40    DMMHGMEM     (long)
    memnum41    DMMHGMEM     (long)
    memnum42    DMMHGMEM     (long)
    memnum43    DMMHGMEM     (long)
    memnum44    DMMHGMEM     (long)
    memnum45    DMMHGMEM     (long)
    memnum46    DMMHGMEM     (long)
    memnum47    DMMHGMEM     (long)
    memnum48    DMMHGMEM     (long)
    memnum49    DMMHGMEM     (long)
    memnum50    DMMHGMEM     (long)
    memnum51    DMMHGMEM     (long)
    memnum52    DMMHGMEM     (long)
    memnum53    DMMHGMEM     (long)
    memnum54    DMMHGMEM     (long)
    memnum55    DMMHGMEM     (long)
    memnum56    DMMHGMEM     (long)
    memnum57    DMMHGMEM     (long)
    memnum58    DMMHGMEM     (long)
    memnum59    DMMHGMEM     (long)
    memnum60    DMMHGMEM     (long)
    memnum61    DMMHGMEM     (long)
    memnum62    DMMHGMEM     (long)
    memnum63    DMMHGMEM     (long)
        User and Compacted Tuple Layout   RT_LGMEM
  |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
  |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
  |---------------+---------------+---------------+---------------|
  |                               |                               |
0 |              grpnum           |*******************************|
  |---------------+---------------+---------------+---------------|
  |                                                               |
4 |                             memnum1                           |
  |---------------+---------------+---------------+---------------|
  |                                                               |
8 |                             memnum2                           |
  |---------------+---------------+---------------+---------------|
                                  .
                                  .
                                  .
  |---------------+---------------+---------------+---------------|
```

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```
    |                                                                   |
248 |                            memnum62                               |
    |---------------+---------------+---------------+-------------------|
    |                                                                   |
252 |                            memnum63                               |
    |---------------+---------------+---------------+-------------------|
      ( 256 bytes )
    memnum1     DMMHGMEM     (long)
    memnum2     DMMHGMEM     (long)
    memnum3     DMMHGMEM     (long)
    memnum4     DMMHGMEM     (long)
    memnum5     DMMHGMEM     (long)
    memnum6     DMMHGMEM     (long)
    memnum7     DMMHGMEM     (long)
    memnum8     DMMHGMEM     (long)
    memnum9     DMMHGMEM     (long)
    memnum10    DMMHGMEM     (long)
    memnum11    DMMHGMEM     (long)
    memnum12    DMMHGMEM     (long)
    memnum13    DMMHGMEM     (long)
    memnum14    DMMHGMEM     (long)
    memnum15    DMMHGMEM     (long)
    memnum16    DMMHGMEM     (long)
    memnum17    DMMHGMEM     (long)
    memnum18    DMMHGMEM     (long)
    memnum19    DMMHGMEM     (long)
    memnum20    DMMHGMEM     (long)
    memnum21    DMMHGMEM     (long)
    memnum22    DMMHGMEM     (long)
    memnum23    DMMHGMEM     (long)
    memnum24    DMMHGMEM     (long)
    memnum25    DMMHGMEM     (long)
    memnum26    DMMHGMEM     (long)
    memnum27    DMMHGMEM     (long)
    memnum28    DMMHGMEM     (long)
    memnum29    DMMHGMEM     (long)
    memnum30    DMMHGMEM     (long)
    memnum31    DMMHGMEM     (long)
    memnum32    DMMHGMEM     (long)
    memnum33    DMMHGMEM     (long)
    memnum34    DMMHGMEM     (long)
    memnum35    DMMHGMEM     (long)
    memnum36    DMMHGMEM     (long)
    memnum37    DMMHGMEM     (long)
    memnum38    DMMHGMEM     (long)
    memnum39    DMMHGMEM     (long)
    memnum40    DMMHGMEM     (long)
    memnum41    DMMHGMEM     (long)
    memnum42    DMMHGMEM     (long)
    memnum43    DMMHGMEM     (long)
    memnum44    DMMHGMEM     (long)
    memnum45    DMMHGMEM     (long)
    memnum46    DMMHGMEM     (long)
    memnum47    DMMHGMEM     (long)
```

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```
    memnum48    DMMHGMEM     (long)
    memnum49    DMMHGMEM     (long)
    memnum50    DMMHGMEM     (long)
    memnum51    DMMHGMEM     (long)
    memnum52    DMMHGMEM     (long)
    memnum53    DMMHGMEM     (long)
    memnum54    DMMHGMEM     (long)
    memnum55    DMMHGMEM     (long)
    memnum56    DMMHGMEM     (long)
    memnum57    DMMHGMEM     (long)
    memnum58    DMMHGMEM     (long)
    memnum59    DMMHGMEM     (long)
    memnum60    DMMHGMEM     (long)
    memnum61    DMMHGMEM     (long)
    memnum62    DMMHGMEM     (long)
    memnum63    DMMHGMEM     (long)
          Stored Tuple Layout     RT_LGMEM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                             memnum1                           |
   |---------------+---------------+---------------+---------------|
   |                                                               |
 4 |                             memnum2                           |
   |---------------+---------------+---------------+---------------|
   |                                                               |
 8 |                             memnum3                           |
   |---------------+---------------+---------------+---------------|
   |                                                               |
12 |                             memnum4                           |
   |---------------+---------------+---------------+---------------|
   |                                                               |
16 |                             memnum5                           |
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |                             memnum6                           |
   |---------------+---------------+---------------+---------------|
   |                                                               |
24 |                             memnum7                           |
   |---------------+---------------+---------------+---------------|
   |                                                               |
28 |                             memnum8                           |
   |---------------+---------------+---------------+---------------|
   |                                                               |
32 |                             memnum9                           |
   |---------------+---------------+---------------+---------------|
   |                                                               |
36 |                             memnum10                          |
   |---------------+---------------+---------------+---------------|
   |                                                               |
40 |                             memnum11                          |
   |---------------+---------------+---------------+---------------|
   |                                                               |
```

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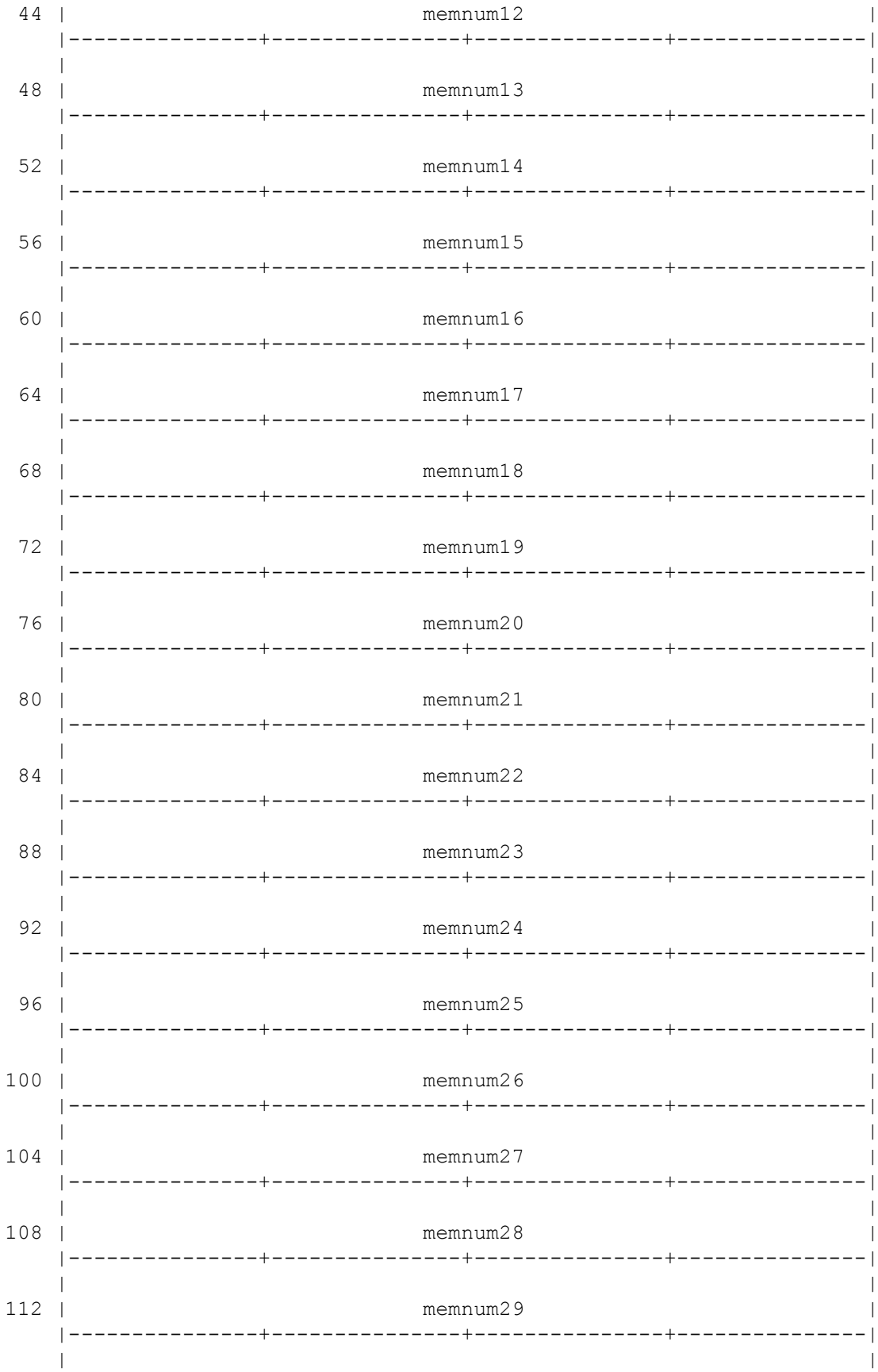


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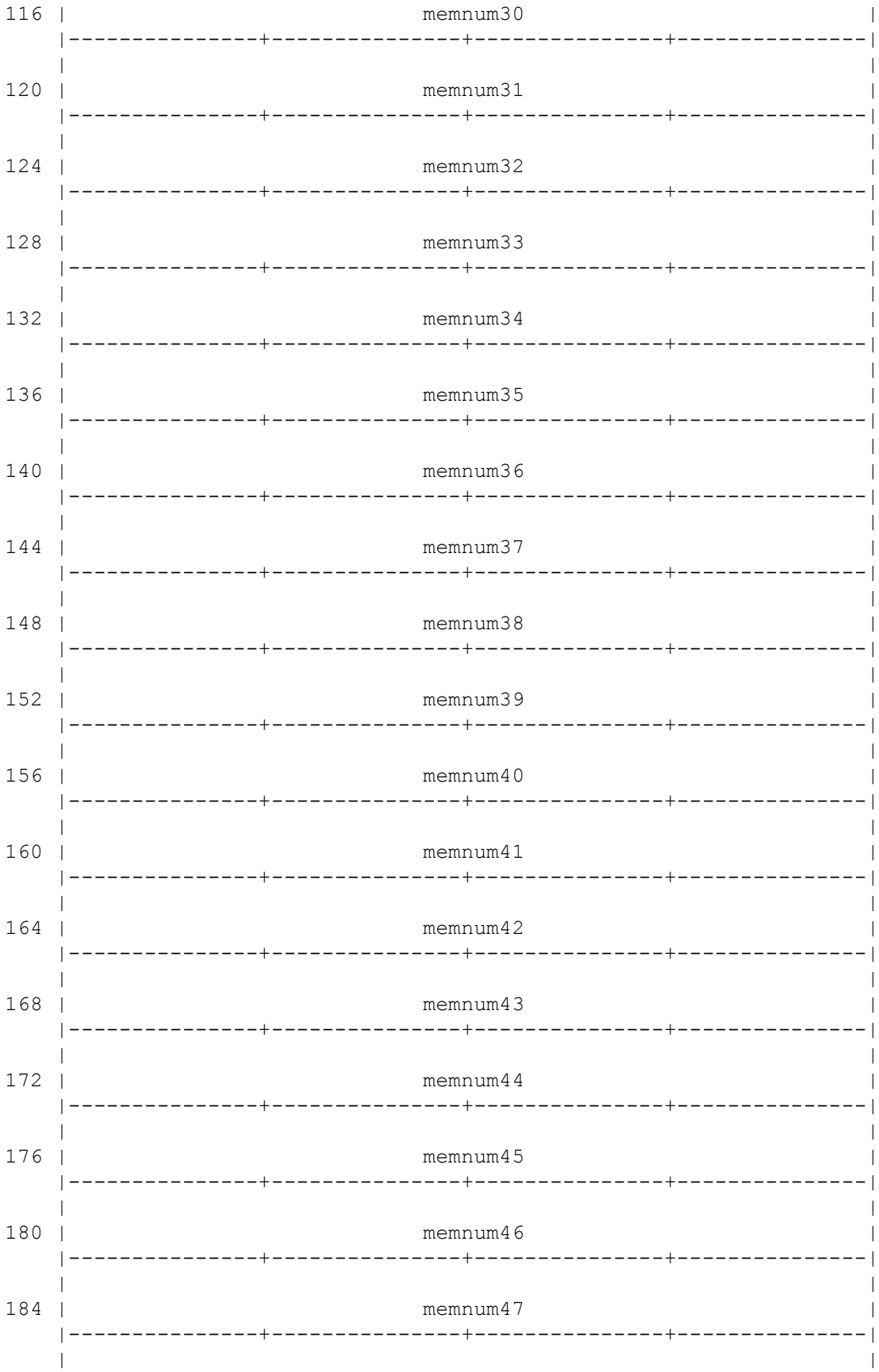


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```
188 |                             memnum48                              |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
192 |                             memnum49                              |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
196 |                             memnum50                              |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
200 |                             memnum51                              |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
204 |                             memnum52                              |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
208 |                             memnum53                              |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
212 |                             memnum54                              |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
216 |                             memnum55                              |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
220 |                             memnum56                              |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
224 |                             memnum57                              |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
228 |                             memnum58                              |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
232 |                             memnum59                              |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
236 |                             memnum60                              |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
240 |                             memnum61                              |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
244 |                             memnum62                              |
    |---------------+---------------+---------------+---------------|
    |                                                                   |
248 |                             memnum63                              |
    |---------------+---------------+---------------+---------------|
       ( 252 bytes )
domain alRT_LGMEM   struct  (2 sub-attributes)
         grpnum      unsigned short (ushort)
         memnum      .0.fake      (array [ 63 ] of long )
         Structure Layout      alRT_LGMEM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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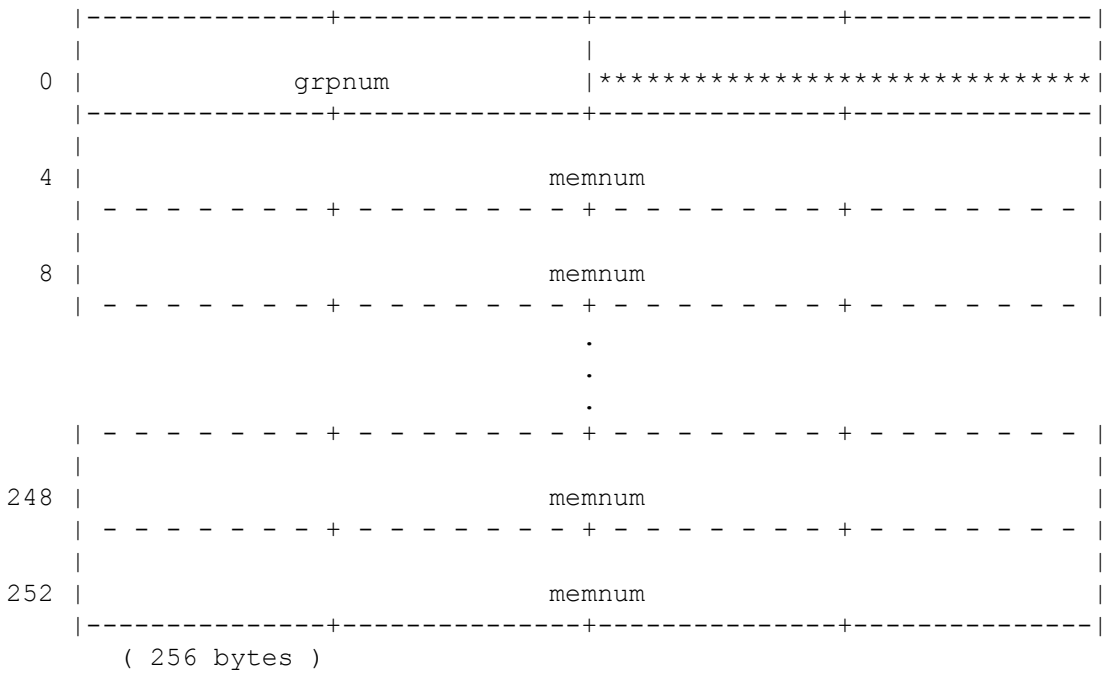


## 4. Population Rules for RLrt_lgmem

**Relation Description**
Large multi-line hunt group (MLHG) active member map.

An array from 0 - 2016 which contains by group the members, of a large MLHG. The array is split into 63 words (32 bits) named memnum1 - memnum63. The right most bit is the low order for each word. However, for memnum1 the low order bit 0 is not used since a MLHG can't have a 0 member. The remaining 62 bit maps utilize all 32 bits. Below each memnum will indicate the range of members which it can represent. This tuple is populated on the HUNTING MODULE for the group, this is indicated where rlrt_lgmem.grpnum is equal to rlrt_mhg.grpnum, and rlrt_mhg.module is the HUNTING MODULE.

**Attribute: grpnum**

**Fullname:** MLHG group number

**Attribute Description** Key is the groups number

**Attribute: memnum[*]**

**Fullname:** A bit map representing members 31 -1 of a large MLHG

**Attribute Description** A bit map from [ 31 - 0 ] with the right most bit being the low order bit. This bit map represents members 31 - 1, and each bit should be set to 0 if the member is not active, else to 1 if the member is active. Bit 0 is always set to 0.

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# RT_MCRT

## 1. Description

This relation contains the routing data expansion which is used by the modular Feature Customization Capability (MFC) features. This relation is used for routing calls in the automatic route selection (ARS), Private Facilities (PF), and Precedence and Preemption (PP) features.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16382 |
| expected tuples | 49 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |
| ks key store | AUTO |
| density | 51 |
| spare | 16s |

## 3. Field Layout

```
RT_MCRT     relid = 521   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    GCRTG


    mc_ri        DMRTEIDX     (ushort: 14)      <--- key, not stored
    pref         DMPREFSTRING (array [ 10 ] of char )
    sec_rt_ri    DMRTEIDX     (ushort: 14)
(a) ffcf2        DMBOOL       (enum: 1)
(b) ffcf3        DMBOOL       (enum: 1)
    sec_mc_ri    DMRTEIDX     (ushort: 14)
(c) ffcf4        DMBOOL       (enum: 1)
(d) ani_ind      DMBOOL       (enum: 1)
    grpnum       DMGRUPNM     (ushort: 13)
(e) rtecat       DMNPT        (enum: 3)
    sfg_grp      DMGRUPNM     (ushort: 13)
(f) sig_pro      DMSIG_PRO    (enum: 3)
    charge_x     DMCHGIDX     (ushort: 11)
    frl_grp      DMARNFRL     (ushort: 5)
    tnsc         DMTNSC       (ushort: 10)
(g) route_type   DMROUTE      (enum: 4)
(h) ovlap_ind    DMBOOL       (enum: 1)
(i) segsig       DMBOOL       (enum: 1)
    ani_ii_digs  DMUNS7        (ushort: 7)
(j) ffcf1        DMBOOL       (enum: 1)
    nbr_del      DMDIGCNT     (uchar: 4)
(k) nbr_pref     DMDIGCNT     (uchar: 4)
(l) rt_descript  DMRTDESTYP    (enum: 4)
(m) rte_srchlmt  DMUNS4        (ushort: 4)
(n) erwt_ind     DMBOOL       (enum: 1)
(o) preempt_ind  DMBOOL        (enum: 1)
(p) crankback    DMBOOL       (enum: 1)
(q) ani6         DMBOOL       (enum: 1)
(r) ani7         DMBOOL       (enum: 1)
(s) exp_cic      DMBOOL       (enum: 1)
    carr_id      DMCARRID     (array [ 4 ] of char )
```

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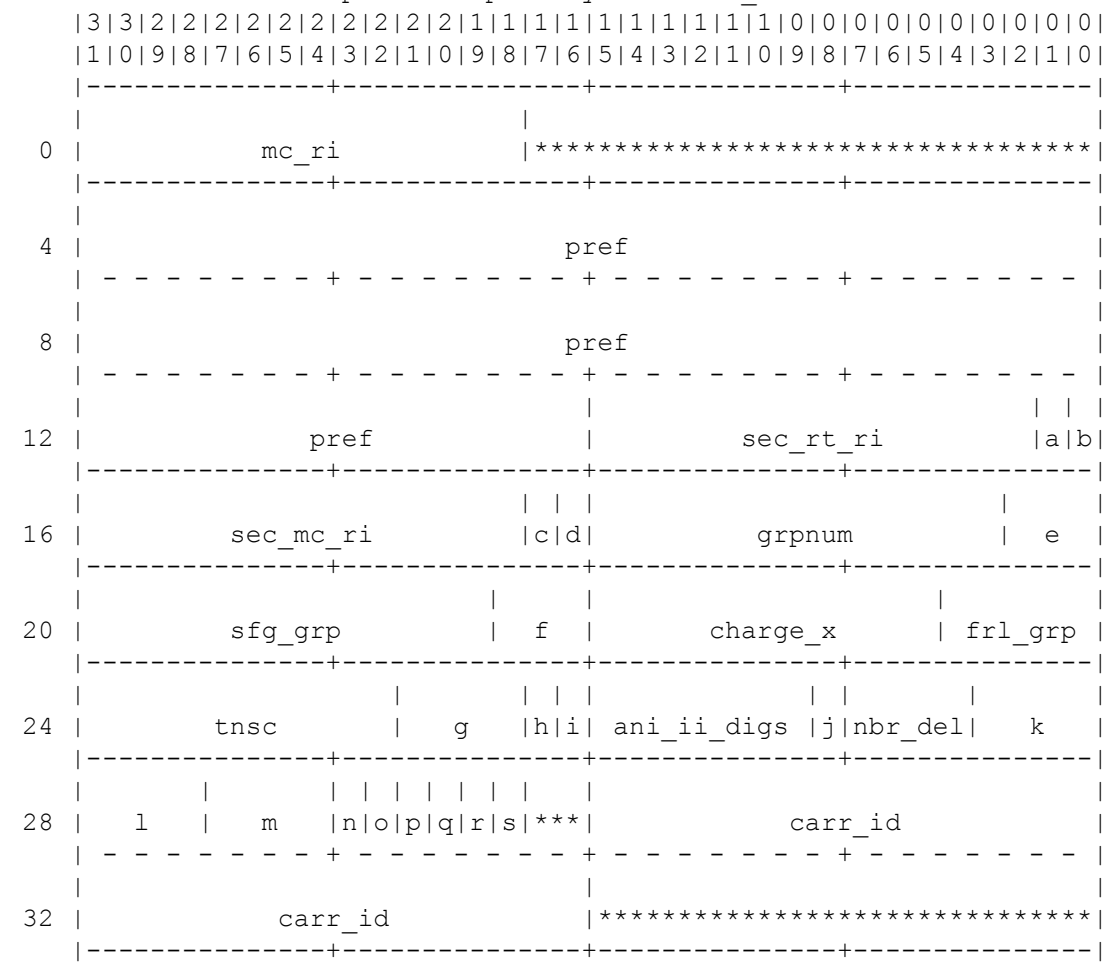
User and Compacted Tuple Layout RT_MCRT




( 36 bytes )

| | | | |
|---|---|---|---|
| | pref | DMPREFSTRING | (array [ 10 ] of char ) |
| | sec_rt_ri | DMRTEIDX | (ushort: 14) |
| (a) | ffcf2 | DMBOOL | (enum: 1) |
| (b) | ffcf3 | DMBOOL | (enum: 1) |
| | sec_mc_ri | DMRTEIDX | (ushort: 14) |
| (c) | ffcf4 | DMBOOL | (enum: 1) |
| (d) | ani_ind | DMBOOL | (enum: 1) |
| | grpnum | DMGRUPNM | (ushort: 13) |
| (e) | rtecat | DMNPT | (enum: 3) |
| | sfg_grp | DMGRUPNM | (ushort: 13) |
| (f) | sig_pro | DMSIG_PRO | (enum: 3) |
| | charge_x | DMCHGIDX | (ushort: 11) |
| | frl_grp | DMARNFRL | (ushort: 5) |
| | tnsc | DMTNSC | (ushort: 10) |
| (g) | route_type | DMROUTE | (enum: 4) |
| (h) | ovlap_ind | DMBOOL | (enum: 1) |
| (i) | segsig | DMBOOL | (enum: 1) |
| | ani_ii_digs | DMUNS7 | (ushort: 7) |
| (j) | ffcf1 | DMBOOL | (enum: 1) |
| | nbr_del | DMDIGCNT | (uchar: 4) |

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```
(k) nbr_pref    DMDIGCNT     (uchar: 4)
(l) rt_descript  DMRTDESTYP   (enum: 4)
(m) rte_srchlmt  DMUNS4       (ushort: 4)
(n) erwt_ind    DMBOOL       (enum: 1)
(o) preempt_ind  DMBOOL       (enum: 1)
(p) crankback   DMBOOL       (enum: 1)
(q) ani6        DMBOOL       (enum: 1)
(r) ani7        DMBOOL       (enum: 1)
(s) exp_cic     DMBOOL       (enum: 1)
    carr_id     DMCARRID     (array [ 4 ] of char )
          Stored Tuple Layout      RT_MCRT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                               pref                            |
   | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 4 |                               pref                            |
   | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                 |                           | | |
 8 |              pref               |         sec_rt_ri         |a|b|
   |---------------+---------------+---------------+---------------|
   |                             | | |                         |     |
12 |         sec_mc_ri           |c|d|          grpnum         |  e  |
   |---------------+---------------+---------------+---------------|
   |                           |     |                     |         |
16 |         sfg_grp           |  f  |       charge_x      | frl_grp |
   |---------------+---------------+---------------+---------------|
   |                   |       | | |             | |       |       |
20 |        tnsc       |   g   |h|i| ani_ii_digs |j|nbr_del|   k   |
   |---------------+---------------+---------------+---------------|
   |       |       | | | | | | |   |                               |
24 |   l   |   m   |n|o|p|q|r|s|***|           carr_id             |
   | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                 |                               |
28 |            carr_id              |*******************************|
   |---------------+---------------+---------------+---------------|
     ( 32 bytes )
```

## 4. Population rules for RLrt_mcrt

### Relation Description

The MC routing static relation

Routing data expansion used by modular feature customization capability (MFC) features. This relation is used for routing calls in the automatic route selection (ARS), private facilities (PF), and precedence and preemption (PP) features.

"The MC routing static relation is used by call processing

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```
        for ARS routing and certain types of PFA routing. "


Attribute:
        mc_ri
Fullname:
        route index used in MFC routing
Attribute Description:
        route index for MFC routing.


Attribute:
        route_type
Fullname:
        type of route
Attribute Description:
        For PF feature:  RTE_REORDER, RTE_SFG, RTE_MC, RTE_DNTRAN
        For ARS feature: RTE_REORDER, RTE_BUSY, RTE_SFG, RTE_MC,
                         RTE_PVN, RTE_DNTRAN
        For PP feature:  RTE_REORDER,  RTE_MC, RTE_SFG
        For EDSL feature: RTE_REORDER, RTE_SFG

                RTE_SFG:     sfg_grp > 0.
                RTE_MC :     sfg_grp = 0.
                RTE_REORDER, RTE_BUSY: grpnum = 0, sfg_grp = 0,
                                       nbr_del = 0, nbr_pref = 0.

        An mc_ri with route_type = RTE_SFG can be used by EDSL.
        For Trunk INWATS (TINWATS), RLrt_sfg.sfg_type = SFGINWATS.
        For OUTWATS, RLrt_sfg.sfg_type = SFGOUTWATS.
        For basic service (POTS originating, POTS terminating),
                                        RLrt_sfg.sfg_type = SFGEDSL.
        For Megacom(R), RLrt_sfg.sfg_type = SFGMEGACOM.
        For Megacom(R) 800, RLrt_sfg.sfg_type = SFGM800.
        For SDN, RLrt_sfg.sfg_type = SFGSDN.
        For FX & Tie, RLrt_sfg.sfg_type = SFGINFX, SFGINTIE, SFGOUTTIE,
                                          SFGOUTFX, SFG2WFX, SFG2WTIE.
        For HM, RLrt_sfg.sft_type = SFGHM.
        For SCOCS, RLrt_sfg.sft_type = SFGSCOCS.

        For CENTREX Network Overflow SFG, RLrt_sfg.sfg_type = SFGCNSOVFL.
        For International 800, RLrt_sfg.sfg_type = SFGI800.
        For MultiQuest (DIAL-IT NOVA), RLrt_sfg.sfg_type = SFGMULTIQUEST.

        An mc_ri populated for use by EDSL must have grpnum = 0.
        Attributes nbr_del, nbr_pref, pref,
        sec_rt_ri, sig_pro, ani_ind, ovlap_ind, segsig, frl_grp,
        erwt_ind, and preempt_ind should be set to their default.
        These cannot be enforced by Recent Change since it cannot
        determine the user of the mc_ri.

        Secondary routes for inter-module trunks may use the route
        type RTE_DNTRAN.  If this route type is encountered, the DN
```

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```
        will be considered an intra-switch line terminating call (that is
        the call will revert back to the DN translation state for
        line terminating calls) and will be completed across the NCT
        links if the DN terminates on the same host Switch.
        The sec_rt_ri of the tuple must be a valid noc for this office
        when the route type is RTE_DNTRAN.
        If there exist a RLrt_mcrt tuple with the sec_rt_ri
        as the key then that tuple does not pertain to this route.
        If this secondary route type is encountered and the DN does
        not terminate on the same host Switch, the call will fail.

        The route_type RTE_PVN can only exist if the office
        parameter Glofc_pvn != DBNON_PVN.  (RTE_PVN is recognized
        by RTA only when ARS is active.)
```

**Attribute:**

```
        grpnum
```

**Fullname:**

```
        port group number
```

**Attribute Description:**

```
        indicates port group number for trunk.

        If carr_id != null value then,
                grpnum=0.
        If grpnum != 0 then,
                existence of tuple in RLrt_trkg with
                rlRT_TRKG.grpnum = grpnum,
                rlRT_TRKG.type must not be RTINCOM.

        If route_type = RTE_PVN and the office parameter,
        Glpvn_ofc = DBPVN_SSP, then grpnum = 0.
```

**Attribute:**

```
        sfg_grp
```

**Fullname:**

```
        simulated facility group id
```

**Attribute Description:**

```
        Indicates Simulated Facility Group (SFG)

        If route_type = RTE_SFG then sfg_grp > 0
           else sfg_grp = 0.

        If sfg_grp > 0
           then verify existence of a tuple in RLrt_sfg
           such that:
                RLrt_sfg.grpnum == RLrt_mcrt.sfg_grp.
                If RLrt_sfg.sfg_type == SFGOUTWATS or SFGEDSL or
                                        SFGMEGACOM or SFGM800 or
                                        SFGSDN or SFGI800 or
                                        SFGMULTIQUEST or
                                        SFGHM or SFGSCOCS or
```

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```
                                SFGOUTESSX or SFG2WESSX.
            then
                 RLrt_mcrt.grpnum = 0

          If RLrt_sfg.sfg_type == SFGINFX, SFGOUTFX, SFGINTIE,
                                  SFGOUTTIE,
                                  SFGHM, SFGSCOCS,
                                  SFG2WTIE, SFG2WFX.
          then
                  RLrt_mcrt.sec_rt_ri must be set to 0


          The following change is not enforced by
          Recent Change or ODA but is necessary
          for an origination with an RTrt_sfg.sfg_type
          of SFGSDN.

          If RLrt_sfg.sfg_type == SFGSDN then

                  RTrt_mcrt.grpnum > 0

     If sfg_grp >0 && carr_id != null value
        then verify existence of tuple in RLrt_sfg such that:
          RLrt_sfg.grpnum == RLrt_mcrt.sfg_grp;
          RLrt_sfg.sfg_type == SFGOUTWATS or SFGEDSL or
                               SFGM800 or SFGMEGACOM or SFGSDN or
                               SFGI800 or SFGMULTIQUEST or
                               SFGHM or SFGSCOCS or
                               SFGOUTESSX or SFG2WESSX.

     If route_type = RTE_PVN and the office parameter
       Glpvn_ofc != DBNON_PVN, then sfg_grp = 0.

     Enhanced 911 SFGs cannot be assigned via this relation.
     Their group numbers are accessed via their global parameters
     instead and then used to read RLrt_sfg.
```

**Attribute:**
nbr_del
**Fullname:**
number of digits to delete
**Attribute Description:**

```
 If route_type = RTE_REORDER or RTE_BUSY then nbr_del = 0.

 If route_type = RTE_PVN and the office parameter
 Glpvn_ofc = DBPVN_SSP, then nbr_del = 0.
```

**Attribute:**
pref
**Fullname:**
prefix digits

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**Attribute Description:**
The characters input in pref must equal to value of nbr_pref.

**Attribute:**
nbr_pref
**Fullname:**
number of digits to prefix
**Attribute Description:**
If route_type = RTE_REORDER or RTE_BUSY then nbr_pref = 0.

If route_type = RTE_PVN and the office parameter
Glpvn_ofc = DBPVN_SSP, then nbr_pref = 0.

**Attribute:**
sec_rt_ri
**Fullname:**
secondary routing index - normal RTA routing
**Attribute Description:**
If sec_rt_ri != 0 and sfg_grp !=0, and the tuple in
relation RLrt_sfg with grpnum == sfg_grp
has sfg_type == SFGNETPAT,
then verify existence of a tuple in RLrt_poly with this
ri as the key.
Else, if sec_rt_ri != 0 and sfg_grp !=0, and the tuple
in relation RLrt_sfg with grpnum == sfg_grp has
sfg_type == SFGEOPAT,
then verify existence of a tuple in RLrt_mcrt with this ri
as the key.
Else,
verify existence of tuple in RLrt_routing with this ri as
key, unless 0 (no secondary route).
*
In an inter-module trunk call, the sec_rt_ri of the
secondary route index must be the noc if the secondary
route type is RTE_DNTRAN.
*
If route_type = RTE_PVN and the office parameter
Glpvn_ofc = DBPVN_SSP, then sec_rt_ri = 0.
For FX & Tie calls over PRI on a call by call basis
this field is not used for routing purposes, RLrt_sfg.sfg_rti
is used instead. See checks for sfg_grp, for setting sec_rt_ri
to 0 when the sfg types are SFGINFX, SFGOUTFX, SFGINTIE,
SFGOUTTIE, SFG2WFX, SFG2WTIE, SFGHM, or SFGSCOCS.

**Attribute:**
sec_mc_ri
**Fullname:**
secondary routing index - mc routing
**Attribute Description:**
Verify existence of tuple in RLrt_mcrt with this ri as

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key, unless 0 (no secondary route).
If route_type = RTE_PVN and the office parameter
Glpvn_ofc = DBPVN_SSP, then sec_mc_ri = 0.

**Attribute:**
sig_pro
**Fullname:**
Used to specify the signaling protocol
**Attribute Description:**
1) TRAD for traditional type of signaling,
2) EA for exchange access (EA) signaling,
3) INC for international type of signaling.
4) FGB for signaling to feature group B carriers.
This value is only valid for route_types
of RTE_MC and RTE_SFG.
5) MEA for Modified EA signaling for the TAISP feature.
6) INCM for international MEA signaling for TAISP.
7) PNANI for ANI Over PF Secured Feature.

Dependency: if grpnum = 0, sig_pro not required and
defaults to TRAD.

The combination of rt_descript = RT_OTHER, sig_pro = PNANI,
and ani_ind = DBYES is used only by the ANI over PF Secured
Feature, which requires that Secured Feature ID 005 be set.

**Attribute:**
ffcf1
**Fullname:**
future field
**Attribute Description:**
future field feature use

**Attribute:**
ffcf2

**Fullname:**
future field
**Attribute Description:**
future field feature use

**Attribute:**
ffcf3

**Fullname:**
future field
**Attribute Description:**
future field feature use

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**Attribute:**
ffcf4

**Fullname:**
future field
**Attribute Description:**
future field feature use

**Attribute:**
ani_ind
**Fullname:**
automatic number identification indicator
**Attribute Description:**
Range of value:
DBYES--ANI information should be outpulsed;
DBNO--ANI information should not be outpulsed.
Dependency: if grpnum = 0, then DBNO
else no dependencies on any other field.

The combination of rt_descript = RT_OTHER, sig_pro = PNANI, and ani_ind = DBYES is used only by the ANI over PF Secured Feature, which requires that Secured Feature ID 005 be set.

**Attribute:**
ovlap_ind
**Fullname:**
overlap outpulsing indicator
**Attribute Description:**
Range of value:
DBYES if overlap outpulsing is allowed,
DBNO, otherwise.
Dependency: if grpnum = 0, then DBNO
else no dependencies on any other field.

**Attribute:**
segsig
**Fullname:**
indicator for a cut-through route requiring segmented signaling ARS
**Attribute Description:**
Cut-through route indicator for ARS segmented signaling.
DBYES if segmented signaling is allowed,
DBNO, otherwise.

If RLrt_mcrt.segsig = DBYES, verify that a RLfc_trunk tuple exists for grpnum with RLfc_trunk.cut_thru = DBYES.
ODA only:
1) If RLrt_mcrt.segsig = DBYES, the trunk group

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specified by RLrt_mcrt.grpnum must be assigned an ARS feature. Verify there is an RLarport tuple keyed by RLrt_mcrt.grpnum.

2) If RLrt_mcrt.segsig = DBYES, there must also be a tuple of RLarsegsig keyed by this mc_ri and RLarport.ar_gpid defined previously.
3) RLrt_mcrt.route_type must be RTE_MC

**Attribute:**
rt_descript
**Fullname:**
route destination type
**Attribute Description:**
Chosen to indicate what type of route this tuple in RLrt_mcrt represents. If more than 1 value applies to the attribute, rt_descript, then the tuple should be duplicated, with a different RI for the key, with 1 tuple per relevant value of the rt_descript attribute. For example, if overflow on direct trunk groups to carriers, shared trunk groups to access tandems (ATs), and Service Provider only trunk groups are all routing to the same announcement/tone, it is necessary to have a separate tuple for each case in order for measurements to work correctly. If grpnum = 0, rt_descript not required and defaults to RT_OTHER.

**Attribute:**
frl_grp
**Fullname:**
group facility restriction level
**Attribute Description:**
this value is used to compare with value of RLarport.frl_line.
Default Value: 31 (ARFRL_NONUSE) - Indicates FRL not used.
Dependencies: This attribute is used exclusively in ARS route lists.

**Attribute:**
erwt_ind
**Fullname:**
expensive warning tone indicator
**Attribute Description:**
This attribute is used exclusively in ARS route lists.
If route_type equals RTE_PVN then erwt_ind must_be DBNO.

**Attribute:**
charge_x
**Fullname:**
charging index
**Attribute Description:**

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```
A non-zero charge index should be entered when physical
facilities (trunks) are specified.

R/C will implement the following warning message on view
10.4 for 5E7_1J:

Begin
If (grpnum != 0) && (charge_x == 0) then
        print_message('A non-zero charge index IS required
                        to prevent AMA Irregularities')
End
```

**Attribute:**
carr_id
**Fullname:**
identifies carrier id
**Attribute Description:**
If not null then verify existence of tuple in
RLfc_carr with this id.
If (route_type == RTE_MC) && (grpnum == 0) then carr_id != 0.
If route_type = RTE_PVN and the office parameter
Glpvn_ofc != DBNON_PVN, then carr_id = 0.

**Attribute:**
preempt_ind
**Fullname:**
indicates whether to perform an idle or preempt hunt
**Attribute Description:**
This attribute is only valid for PP features.
Range of value:DBNO - perform idle hunt
DBYES - perform preempt hunt
Dependency: If route_type is != RTE_MC then preempt_ind
must = DBNO.

**Attribute:**
crankback
**Fullname:**
crankback message indicator
**Attribute Description:**
DMBOOL indicating if a crankback message can be sent back
to the previous switch for rerouting. DBYES indicates that
no more routing is available in this routing list and a
crankback message can be sent to the previous switch in
case a satisfactory route cannot be obtained. DBNO indicates
that the crankback message shouldn't be sent.
Also crankback can not be applied to a terminating facility.
To prove that this is an intermachine trunk we look at
RLrctgrprk and check that the LN-TYPE is LN_IMT.
Crankback should not be applied to a SFG.

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**Attribute:**
ani_ii_digs
**Fullname:**
identifies ANI II pairs
**Attribute Description:**
Two digit information indicator associated with the MC Route Index of an outgoing call using Equal Access signaling (EAMF or EA-ISUP7). The MC Route Index will identify the service provided to the originator such as PFA/OUTWATS or SDN/OUTWATS call.

The ani information indicator is defined and administered by Telcordia Technologies.

The ani_ii_digs associated with a call can be obtained from various places in the system. If it is obtained from RLrt_mcrt relation, it is associated with a service such as PFA/OUTWATS or SDN OUTWATS. If it is obtained from the RLflex_ani relation, it is associated with the Class of Service of the originating party. If it is obtained from the RLscridxpa relation, it is associated with a screening index of the originating party (The Flexible ANI Enhancement Secured Feature must be purchased and enabled, and the carrier must be allowed to send ANI II Digits). If it is obtained from the RLrt_routing relation it identifies the carrier through its association with the Route Index.

The ani_ii_digs attribute associated with the MCRI (RLrt_mcrt) has the highest precedence, followed by RI (RLrt_routing), SCRIDX (RLscridxpa) and the COS (RLflex_ani).
The following diagram illustrates the precedence and the ani_ii_digs attribute to be outpulsed with the call:

| RLrt_mcrt | RLrt_routing | RLscridxpa | RLflex_ani |
|---|---|---|---|
| ani_ii_digs | ani_ii_digs | ani_ii_digits | ani_ii_digs |
| defined | N/A | N/A | N/A |
| null | defined | N/A | N/A |
| null | null | defined | N/A |
| null | null | null | defined |

If the value of RLrt_mcrt.ani_ii_digs is FC_ANI_NULL, RLrt_routing.ani_ii_digs is FC_ANI_NULL, and RLscridxpa does not exist, then the ani_ii_digs will be derived from RLflex_ani and the value will be based on the COS of the originating party. Flexible ANI II feature is a secured feature and must be purchased to use. Flexible ANI Enhancements secured feature is depended on the Flexible ANI II secured feature.

**Attribute:**
ani6
**Fullname:**

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automatic number identification 6

**Attribute Description:**

This attribute indicates to the operator system that the call may require special screening. If DBYES--ANI digit 6 should be outpulsed. If DBNO--ANI digit 6 should not be outpulsed. If RLrt_mcrt.ani6 is DBYES, then RLrt_mcrt.ani7 must be DBNO, RLrt_mcrt.route_type must equal SFG, RLrt_mcrt.ani_ind must be DBYES, RLrt_mcrt.ani_ii_digs must_be 100,

and RLrt_sfg.sfg_type must be SFGOUTWATS or SFGHM.

**Attribute:**

ani7

**Fullname:**

automatic number identification 7

**Attribute Description:**

This attribute indicates to the operator system that the call may require special screening. If DBYES--ANI digit 7 should be outpulsed. If DBNO--ANI digit 7 should not be outpulsed. If RLrt_mcrt.ani7 is DBYES, then RLrt_mcrt.ani6 must be DBNO, RLrt_mcrt.route_type must equal SFG, RLrt_mcrt.ani_ind must be DBYES, RLrt_mcrt.ani_ii_digs must_be 100,

and RLrt_sfg.sfg_type must be SFGOUTWATS or SFGSCOCS.

**Attribute:**

exp_cic

**Fullname:**

Feature Group D Expanded Carrier Identification Code (CIC)

**Attribute Description:**

Used to indicate on Equal Access trunks whether the expanded (4-digit) Carrier Identification Code (CIC) should be used (DBYES). A value of DBNO on relevant trunks indicates that the 3-digit CIC should be used. Trunks other than Equal Access have this attribute set to DBNO.

**Attribute:**

rtecat

**Fullname:**

routing category

**Attribute Description:**

DMnpt used by the FTS-2000 INPA feature to specify the routing category/numbering plan that will be used by the call. RTECAT can only be populated in Leased Network offices, where the Leased Network DAS, Gllndas,

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is populated on view 8.15.

| rtecat | routing category |
|---|---|
| CC_NPTNULL | No change (default setting) |
| CC_NANP | change to use NANP (North American Dialing Plan) |
| CC_APN | change to use APN (Action Point Numbering Plan) |
| CC_INTL | change to use INTL (International Numbering Plan) |

**Attribute:**
rte_srchlmt
**Fullname:**
Route search limit value
**Attribute Description:**
This attribute is used to denote the route search limit. The route search limit determines how far along the route chain to search.

**Attribute:**
tnsc
**Fullname:**
Terminating Network Selection Code
**Attribute Description:**
This attribute is used to denote the Terminating Network Selection Code value.

**Defines:**
"db/DMtnsc.h"

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# RT_MCTR

## 1. Description

This relation contains the DN terminating translations used by Modular Feature Customization (MFC) capability (private facility access) feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1507236 |
| expected tuples in relation | 978 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |

## 3. Field Layout

```
RT_MCTR     relid = 529   DBSTATIC   DBACC_DHSH  DBPRAM    LPFG    GCRTG


    tgid        DMUNS16      (ushort)
    mc_ri       DMRTEIDX     (ushort: 14)
 (a) term_sfg    DMBOOL       (enum: 1)
    inwats_mcri  DMRTEIDX     (ushort: 14)
    ccsa_termri  DMRTEIDX     (ushort: 14)
    sdn_mcri    DMRTEIDX     (ushort: 14)
    eon_mcri    DMRTEIDX     (ushort: 14)
    locdn       DMLOCDN      (struct)  <--- key, compacted
        noc         DMNOC        (ushort: 14)
        digits      DMLOCDIG     (array [ 4 ] of char )
           User Tuple Layout   RT_MCTR
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                             | | |
 0 |              tgid               |           mc_ri             |a|*|
   |---------------+---------------+---------------+---------------|
   |                               |   |                             |   |
 4 |        inwats_mcri            |***|        ccsa_termri          |***|
   |---------------+---------------+---------------+---------------|
   |                               |   |                             |   |
 8 |          sdn_mcri             |***|          eon_mcri           |***|
   |===============+============ locdn ============+===============|
   |   |                             |                               |
12 |***|            noc              |             digits            |
   | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - - |
   |                                 |                               |
16 |             digits              |*******************************|
   |===============+===============+===============+===============|
      ( 20 bytes )


    tgid        DMUNS16      (ushort)
    mc_ri       DMRTEIDX     (ushort: 14)
```

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```
(a) term_sfg    DMBOOL       (enum: 1)
    inwats_mcri  DMRTEIDX     (ushort: 14)
    ccsa_termri  DMRTEIDX     (ushort: 14)
    sdn_mcri    DMRTEIDX     (ushort: 14)
    eon_mcri    DMRTEIDX     (ushort: 14)
    locdn       DMKLOCDN     (struct)  <--- key, compacted
        noc         DMNOC        (ushort: 14)
        index       DMUNS14      (ushort: 14)
         Compacted Tuple Layout    RT_MCTR
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               | | |
 0 |              tgid             |            mc_ri              |a|*|
   |---------------+---------------+---------------+---------------|
   |                           |   |                               |   |
 4 |        inwats_mcri        |***|        ccsa_termri            |***|
   |---------------+---------------+---------------+---------------|
   |                           |   |                               |   |
 8 |          sdn_mcri         |***|          eon_mcri             |***|
   |===============+============ locdn ============+===============|
   |   |                           |                               |   |
12 |***|            noc            |            index              |***|
   |===============+===============+===============+===============|
   |                                                               |
16 |***************************************************************|
   |---------------+---------------+---------------+---------------|
     ( 20 bytes )


    tgid        DMUNS16      (ushort)
    mc_ri       DMRTEIDX     (ushort: 14)
(a) term_sfg    DMBOOL       (enum: 1)
    inwats_mcri  DMRTEIDX     (ushort: 14)
    ccsa_termri  DMRTEIDX     (ushort: 14)
    sdn_mcri    DMRTEIDX     (ushort: 14)
    eon_mcri    DMRTEIDX     (ushort: 14)
    locdn       DMKLOCDN     (struct)  <--- key, compacted
        noc         DMNOC        (ushort: 14)
        index       DMUNS14      (ushort: 14)
          Stored Tuple Layout      RT_MCTR
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               | | |
 0 |              tgid             |            mc_ri              |a|*|
   |---------------+---------------+---------------+---------------|
   |                           |   |                               |   |
 4 |        inwats_mcri        |***|        ccsa_termri            |***|
   |---------------+---------------+---------------+---------------|
   |                           |   |                               |   |
 8 |          sdn_mcri         |***|          eon_mcri             |***|
   |===============+============ locdn ============+===============|
   |   |                           |                               |   |
```

```
 12 |***|            noc            |           index           |***|
    |===============+===============+===============+===============|
       ( 16 bytes )
```

## 4. Population rules for RLrt_mctr

**Relation Description**

MFC route index for DN terminating translations

This relation is for DN terminating translations.
A tuple must be populated when an incoming SFG
is required to terminate to the line described by
the locdn. This relation provides a modular feature
route index for the inwats, sdn, essx, ccsa, or tinwats
SFG.

"SPECIAL CHECK FOR RLRT_MCTR

The mc_ri's specified in this relation are mutually exclusive.
Therefore, if any of the 4 attributes mc_ri, inwats_mcri,
ccsa_termri, or sdn_mcri is > 0, then the other 3 must be 0.
The exceptions to this are mc_ri (for ESSX) and ccsa_termri
(for CCSA), which can both be > 0. If this is the case,
the characteristics of the originator will determine if the
ccsa_termri or mc_ri should be used for a given call.
The other exception to this is mc_ri (for ESSX) and sdn_mcri
(for SDN), which can both be > 0. The characteristics of the
originator will determine if sdn_mcri or mc_ri should be used
for a given call

The previous poprule does not apply to EON SFG.

The following population rules apply to multiple dns of a multi-
line hunt group:
If the multiple dn is pointing to a base dn that is a member of a
REG, CIRC, UCD, or ISAT hunt group, then there is a RT_MCTR tuple on
the AM.

If the multiple dn is pointing to a base dn that is a MUPH or ISAT
subtn or a UCD group dn, then there is a tuple on the AM."

**Attribute:**
locdn
**Fullname:**
Local directory number
**Attribute Description:**
Terminating local directory number

**Attribute:**
locdn.noc

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**Fullname:**
Normalized office code
**Attribute Description:**
Normalized office code

**Attribute:**
locdn.digits
**Fullname:**
digit string
**Attribute Description:**
Digit string; an array of up to 4 extended digits

**Attribute:**
tgid
**Fullname:**
terminal group id
**Attribute Description:**
Terminal group id of this terminating line.

**Attribute:**
mc_ri
**Fullname:**
route index
**Attribute Description:**
MFC feature route index for an incoming ESSX SFG.

**Attribute:**
term_sfg
**Fullname:**
SFG terminal group
**Attribute Description:**
Tell if an ESSX or CCSA SFG is needed to terminate to this terminal group. DBYES means an SFG is needed.

**Attribute:**
inwats_mcri
**Fullname:**
MFC route index for INWATS
**Attribute Description:**
MFC feature route index for INWATS or TINWATS.

**Attribute:**
ccsa_termri
**Fullname:**
route index for CCSA
**Attribute Description:**
MFC feature route index for incoming CCSA SFG.

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**Attribute:**
sdn_mcri
**Fullname:**
route index for SDN
**Attribute Description:**
MFC feature route index for SDN.

**Attribute:**
eon_mcri
**Fullname:**
the EOLN base MFC route index
**Attribute Description:**
This attribute contains a base MFC route index that leads to an EON SFG when it is added with an EOLN service index from relation either RLdaprlfnl or RLdaprmfnl. SFID218 must be active before this attribute is populated with a non default value.

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# RT_MEM

## 1. Description

Multi-Line Hunt Group (MLHG) member information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected number of tuples | 200 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 2 |
| l1 length of subkey 1 | 11 |
| p1 position of subkey 1 | 5 |
| ks key store | DBNO |
| trigger function | RTrcmem |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ignore key bits | 0-4 |
| permutation type | unperm |

## 3. Field Layout

```
RT_MEM      relid = 1218  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     grpnum      DMGRPNUM     (ushort)  <--- key, not stored
     memnum1     DMMHGMEM     (long)
     memnum2     DMMHGMEM     (long)
         User and Compacted Tuple Layout     RT_MEM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              grpnum           |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             memnum1                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             memnum2                           |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
     memnum1     DMMHGMEM     (long)
     memnum2     DMMHGMEM     (long)
           Stored Tuple Layout   RT_MEM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                             memnum1                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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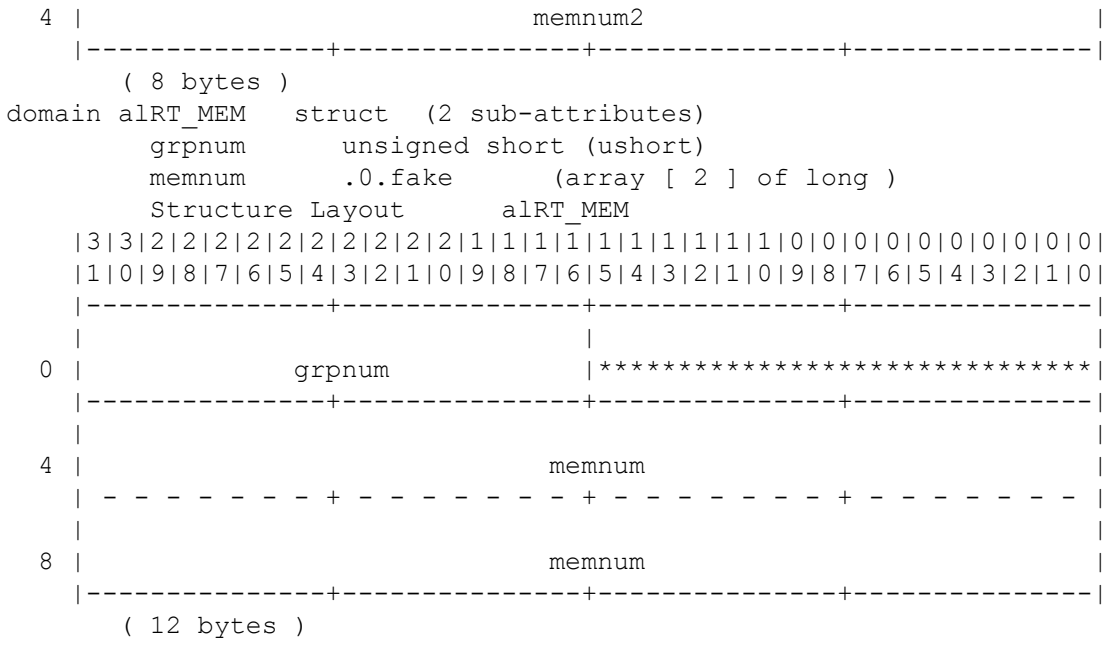


## 4. Population Rules for RLrt_mem

**Relation Description**
Small Multiline Hunt Group active member map.

This relation is intended to be a bit map for small MLHGs with each bit representing a member of the small group. The bit map is 2 words long (64 bits), with the left most bit being the low order bit. The low order bit (0) is not used since there can be no 0 member. Members for a small group range from 1 - 63. The bit map is set up to reference the whole bit map at once, or by a word at a time. If the bit map is referenced a word at a time the memnum2 field represents the second word, this words left most bit is the low order bit (0), and is used to reference the 32nd member of the group. Memmap1 contains members 1 - 31, while memnum2 contains members 32 - 63. This relation is populated by RC/V on the hunting module for the group. The hunting module for the group is determined where rlrt_mem.grpnum is equal to rlrt_mhg.grpnum, and the hunting module is equal to rlrt_mhg.module.

**Attribute: grpnum**

**Fullname:** MLHG Group Number

**Attribute Description** Key is the groups number

**Attribute: memnum1**

**Fullname:** Member bit map 1 (1 - 31) of a small MLHG

**Attribute Description** This attribute is a word (32 bits) which represents members 1 - 31 of a small MLHG. The low order bit is the left most bit, and in this case is 0, and is not used due to MLHGs not having a member 0. When a member is populated for a MLHG the corresponding bit must be set to 1 to indicate the member is active. If the member is not active due to being on intercept or having been deactivated then the bit must be 0.

**Attribute: memnum2**

**Fullname:** Member bit map 2 (32 - 63) of a small MLHG

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**Attribute Description** This attribute is a word (32 bits) which represents members 32 - 63 of a small MLHG. The low order bit is the left most bit, and in this case is 0, this bit represents member 32 of the MLHG. When a member is populated for a MLHG the corresponding bit must be set to 1 to indicate the member is active. If the member is not active due to being on intercept or having been deactivated then the bit must be 0 .

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# RT_MHG

## 1. Description

This relation contains the multiline hunt group information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected tuples in relation | 95 |
| density | 47 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFR |
| application | GCRTG |
| relation type | DBSTATIC |
| ks key store | AUTO |
| trigger function | RTrclngrp |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBYES |

## 3. Field Layout

```
RT_MHG      relid = 199   DBSTATIC   DBACC_CIND  DBPRAM    LPFR    GCRTG


    grpnum      DMGRPNUM     (ushort)  <--- key
    first_preempt  DMMEMBER     (ushort)
    qfid        DMMCC_FID    (ushort)
    grp_noc     DMNOC        (ushort: 14)
(a) rlt_type    DMRLT_TYPE   (enum: 2)
    grp_loc     DMLINENO     (ushort: 14)
(b) beartyp     DMBRTYP      (enum: 2)
    size        DMMEM        (ushort: 12)
(c) ctxid       DMCTXID      (enum: 2)
(d) reg         DMBOOL       (enum: 1)
(e) grpcfv      DMBOOL       (enum: 1)
    asg_size    DMMEM        (ushort: 12)
(f) grpmkbusy   DMBOOL       (enum: 1)
(g) inwats      DMBOOL       (enum: 1)
(h) dummy       DMBOOL       (enum: 1)
(i) q_ing       DMBOOL       (enum: 1)
    ldn_cnt     DMUNS11      (ushort: 11)
    htype       DMHNTTYPE    (enum: 5)
    module      DMMODULE     (ushort: 8)
    ffcf8       DMUNS8       (ushort: 8)
    qmodule     DMMODULE     (ushort: 8)
    qbsize      DMUNS8       (ushort: 8)
    qexsize     DMUNS8       (ushort: 8)
    ffcf6       DMUNS8       (ushort: 8)
    ffcf7       DMUNS8       (ushort: 8)
    psbgrp      DMPSBGRP     (ushort: 7)
(j) gblgrp      DMBOOL       (enum: 1)
    isat_idx    DMISATGRP    (ushort: 6)
(k) monitor     DMBOOL       (enum: 1)
```

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```
(l) qihtns      DMBOOL       (enum: 1)
(m) mdc         DMBOOL       (enum: 1)
(n) grpdn_flag  DMBOOL       (enum: 1)
(o) rlt_flash   DMBOOL       (enum: 1)
(p) stats24     DMBOOL       (enum: 1)
(q) ffcf1       DMBOOL       (enum: 1)
(r) ffcf2       DMBOOL       (enum: 1)
(s) ffcf3       DMBOOL       (enum: 1)
(t) ffcf4       DMBOOL       (enum: 1)
(u) ffcf5       DMBOOL       (enum: 1)
(v) psap        DMBOOL       (enum: 1)
(w) mon_mode    DMBOOL       (enum: 1)
(x) sada        DMBOOL       (enum: 1)
(y) freeterm    DMBOOL       (enum: 1)
(z) fga         DMBOOL       (enum: 1)
(A) bcl_assign  DMBOOL       (enum: 1)
(B) ported      DMBOOL       (enum: 1)
(C) map_grp     DMBOOL       (enum: 1)
    reg_port    DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
        User, Compacted and Stored Tuple Layout RT_MHG
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             grpnum            |         first_preempt         |
   |---------------+---------------+---------------+---------------|
   |                               |                           |   |
 4 |              qfid             |          grp_noc          | a |
   |---------------+---------------+---------------+---------------|
   |                           |   |                       |   | | |
 8 |          grp_loc          | b |          size         | c |d|e|
   |---------------+---------------+---------------+---------------|
   |                       | | | | |                       |       |
12 |        asg_size       |f|g|h|i|       ldn_cnt         |  htype  |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
16 |     module    |     ffcf8     |    qmodule    |     qbsize    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |             | |
20 |    qexsize    |     ffcf6     |     ffcf7     |    psbgrp   |j|
   |---------------+---------------+---------------+---------------|
   |           | | | | | | | | | | | | | | | | | | | |             |
24 |  isat_idx |k|l|m|n|o|p|q|r|s|t|u|v|w|x|y|z|A|B|C|*************|
   |===============+==========  reg_port ==========+===============|
   |                               |               |               |
28 |             member            |***************|     module    |
   |===============+===============+===============+===============|
      ( 32 bytes )
```

## 4. Population rules for RLrt_mhg

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**Relation Description**

```
        multiline hunt group information

        This relation provides information about
        multiline hunt groups (MLHG).


       "*****************************************************************

        NOTE:   For OSPS external database applications (such as AMLB),
                the following packet switching application population
                rules apply for populating OSPS tuples.

        *****************************************************************

                RLrt_mhg (packet switching application)

        As of 5E9, X.25 Packet Switching will no longer be supported
        by the PH2 Access Image.  X.25 packet will only be supported
        by PH3's.

        As of 5E10, X.25 Packet Switching is also supported by PH4's.

        For packet switching application, a DSL is not marked busy
        when it is in use unless all the logical channels of the DSL
        packet switching channel are in use. Therefore, two
        special hunt types, namely RTH_PSUCD and RTH_PSLGUCD are
        introduced to meet the special requirements for hunting a DSL
        in a multi-line group. RTH_PSUCD is used for a group with member
        number less than 64 ; otherwise, RTH_PSLGUCD is used.

         TUPLE SEMANTICS:

         grpnum  a valid group number (key), range from 0 to AVMLHGRPS().

         module  Indicates the module where the dynamic data is
                 populated for this MLHG.

         gblgrp  Indicates if the MLHG is a global group (DBYES)
                 or a local group (DBNO). If gblgrp is DBYES, then
                 the MLHG is a global group ( member ports are spread
                 across the SMs ), else the group is a local group
                 (members ports are consolidated on one SM).
                 Default: DBYES
                 Dependencies :
                 When RLrt_mhg.gblgrp == DBNO then,
               for all tuples in PSGP_PRT where:
                 PSGP_PRT.grpnum = RT_MHG.grpnum
                 PSGP_PRT.module = X
                   where 'X' must be a single switching module number

         grpmkbusy  DBNO (Group Make Busy does not apply to packet switching)

         size    If htype == RTH_PSUCD or RTH_PSUCD,
```

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```
        the MLHG is used for packet switching.
        The range is from 0 to 63 for RTH_PSUCD,
        range from 64 to 2015 for RTH_PSLGUCD. No default value.
asg_size  rlRT_MHG.asg_size equals count of tuples in rlPSGP_PRT
        where rlPSGP_PRT.grpnum = rlRT_MHG.grpnum,
        rlPSGP_PRT.grptype = TM_LINE.
        Note: rlRT_MHG.asg_size <= rlRT_MHG.size.

htype   RTH_PSUCD, or RTH_PSLGUCD
grpcfv  DBNO
monitor DBNO (default)
dummy   DBNO
first_preempt 0
q_ing   DBNO
qmodule  0
qbsize   0
qexsize  0
qfid     0
beartyp  BR_PACK
isat_idx 0
rlt_type RLT_NONE
rlt_flash DBNO
psbgrp packet business group (0-100)
ldn_cnt   Indicates the number of linear entry point DNs
          assigned to the members of a packet MLHG.

*************************************************************************

               RLrt_mhg (Modem Pool Group Application)

       A modem pool group will function as a regular analog multi_line
       hunt group with the hunt type equal to RTH_UCD or RTH_LGUCD
       depending on the size of the group.
       A modem and its associated terminal adapter (TA) in
       a modem pool group must be assigned together as one
       member in that group. With the same keys of group number
       (grpnum) and member number, the relation RLgroup_port will
       map the port of the modem while the RLpsgp_prt will map the
       port of the TA. When an idle member is selected for routing
       it is marked busy regardless the calling party is from DSL
       line or from analog line.

TUPLE SEMANTICS:

grpnum  a valid group number (key), range from 1 to AVMLHGRPS().


module       Indicates the module where the dynamic data is
             populated for this MLHG.

gblgrp       Indicates if the MLHG is a global group (DBYES)
             or a local group (DBNO). If gblgrp is DBYES, then
             the MLHG is a global group ( member ports are spread
             across the SMs ), else the group is a local group
```

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```
                    ( members ports are consolidated on one SM).
                    Default: DBYES
                    Dependencies :
                                When RLrt_mhg.gblgrp == DBNO then,
                                  for all tuples in GROUP_PORT where:
                                    GROUP_PORT.portgrp.grpnum = RT_MHG.grpnum
                                    GROUP_PORT.port.module = X
                                     where 'X' must be a single switching module nu
mber.

                                  for all tuples in PSGP_PRT where:
                                    PSGP_PRT.grpnum = RT_MHG.grpnum
                                    PSGP_PRT.module = X
                                     where 'X' must be a single switching module nu
mber.


        size
                    For modem pool group,the range is from 0 or 2 to 64 for
                    RTH_UCD, range from 65 to 2016 for RTH_LGUCD.
                    Default is zero.

        asg_size
                    rlRT_MHG.asg_size equals count of tuples in rlGROUP_PORT
                    where rlGROUP_PORT.portgrp.grpnum = rlRT_MHG.grpnum,
                    rlGROUP_PORT.portgrp.grptype = TM_LINE.
                    Note: rlRT_MHG.asg_size <= rlRT_MHG.size.

        htype  RTH_UCD, or RTH_LGUCD
        grpcfv DBNO
        monitor         DBNO (default)
        dummy  DBNO
        first_preempt  0
        q_ing           DBNO
        qmodule         0
        qbsize          0
        qexsize         0
        qfid            0
        beartyp         BR_VOICE
        isat_idx        0
        rlt_type        RLT_NONE
        rlt_flash       DBNO
        psbgrp packet business group (0-100)
        ldn_cnt         0


      ************************************************************************

                    RLrt_mhg (ISDN Circuit Switched Data Application)

              A multi line hunt group for data Circuit Switching
              (beartyp = BR_CSD) must have a hunt type of regular,
              circular, or uniform call distribution.  The hunt group
              can use either scan points or functional keys on a terminal
```

which is a member of the group for Group Make Busy and Stop Hunt functions. A member of the CSD hunt group must be an ISDN terminal of type IS_TYPEA, IS_TYPEB, ISTYPEC, IS_TYPED, or IS_TYPEE. IS_TYPATT cannot be a member of a CSD hunt group.

A member of a CSD hunt group is the D-channel of the DSL on which the terminal resides. The member is considered to be 'busy' if all the B-channels on that DSL that have a bearer service of data (RLdslequip.b1serv and/or RLdslequip.b2serv equal to RTDMD_SRV) are busy. The DSL may have none, one, or two B-channels with a bearer service of RTDMD_SRV.

TUPLE SEMANTICS:

grpnum a valid group number (key), range from 1 to AVMLHGRPS().

module Indicates the module where the dynamic data is populated for this MLHG.

gblgrp Indicates if the MLHG is a global group (DBYES) or a local group (DBNO). If gblgrp is DBYES, then the MLHG is a global group ( member ports are spread across the SMs ), else the group is a local group ( members ports are consolidated on one SM).
Default: DBYES
Dependencies :
When RLrt_mhg.gblgrp == DBNO then,
for all tuples in GROUP_PORT where:
GROUP_PORT.portgrp.grpnum = RT_MHG.grpnum
GROUP_PORT.port.module = X
where 'X' must be a single switching module number.

for all tuples in PSGP_PRT where:
PSGP_PRT.grpnum = RT_MHG.grpnum
PSGP_PRT.module = X
where 'X' must be a single switching module number.

reg Indicates if a multi-line hunt group has an overflow peg count register (DBYES) or not (DBNO). If rlRT_MHG.reg = DBYES, the reg_port attribute must be entered with a non-null value.

reg_port If rlRT_MHG.reg = DBYES, rlRT_MHG.reg_port.member must be a valid MSU signal distributor point.

inwats Indicates if a multi_line hunt group is INWATS (DBYES) or not (DBNO).
Default: DBNO

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```
grpmkbusy Indicates if group make busy is provided for this
          multi-line hunt group (DBYES) or not (DBNO).
          Default: DBNO
          If DBYES, the miscellaneous equipment number must
          be entered.
          Dependencies: If DBYES, verify if tuple exists
          such that
                rlFC_PORTTYP.servclass = FC_HUNTKEY
                rlHUNTKEYS.huntkey_type = FCGRPMKBUSY


size      For a regular MLHG the size can range from 0 or 2 to 64.
          For a large MLHG, the size can be from 65 to 2016.
          The Default value is zero.

asg_size  rlRT_MHG.asg_size equals count of tuples in
          rlGROUP_PORT where
          rlGROUP_PORT.portgrp.grpnum = rlRT_MHG.grpnum,
          rlGROUP_PORT.portgrp.grptype = TM_LINE.
          Note: rlRT_MHG.asg_size <= rlRT_MHG.size.

htype     RTH_REGULAR, RTH_LGREG, RTH_CIRCULAR, RTH_LGCIR,
          RTH_UCD, OR RTH_LGUCD.

grpcfv    DBNO

monitor   DBNO (default)

dummy     DBNO

first_preempt 0

q_ing     queuing active on this group?
          Range of values: DBYES or DBNO
          Default value: DBNO
          Dependencies: If q_ing is DBYES, then qfid must
             contain a valid queuing feature with modular
             feature type MFQU, and a tuple in RLfacname
             with RLfacname.facid = qfid and
             RLfacname.subclass = SCL_FEAT.
             The htype must be RTH_CIRCULAR, RTH_LGCIR,
             RTH_UCD, or RTH_LGUCD if q_ing is DBYES.

             Note: If q_ing is DBNO, then qmodule, qbsize,
             and qfid dependencies need not be checked. If
             q_ing is DBYES, these values must be valid
             (not 0). This note is intended for check tools.

  qmodule module on which this group's queue resides
          Range of values: 0 - 192
          Default value: 0
          Dependencies: qmodule must = RLmodatt.module

          ------------------------------------------------
```

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```
                | NOTE:                                              |
                | To better utilize office resources for both        |
                | local and global MLHG groups, it is recommended    |
                | that when rlRT_MHG.q_ing is DBYES, then            |
                | rlRT_MHG.qmodule be equal to rlRT_MHG.module.      |
                ------------------------------------------------

          qbsize  default parameter queue basic size
                  Range of values: 0 - 255
                  Default value: 0
                  Dependencies: qbsize + qexsize must be <= (255 -
                  (all (qbsize + qexsize + qu_ogtos.rqsize + qu_ogtos.pqsize)
                  already assigned to this particular SM))

          qexsize 0 (CSD on FX facilities is not supported)

          qfid    queuing feature id
                  Range of values: 0, or
                  top 6 bits (10 - 15): MFQU (14 [0xe]) (see DMmftyp.G),
                  bottom ten bits (0 - 9): 1 - 1023 (0x1 - 0x3ff)
                  Default value: 0
                  Dependencies: a tuple in RLfacname with
                  RLfacname.facid = qfid and RLfacname.subclass = SCL_FEAT.
                  Also if qfid is not zero then a tuple must be found in
                  relation RLqu_cfdfl keyed by qfid, and the grptype must
                  be TM_QLINE in the tuple in RLqu_cfdfl keyed by qfid.
                  The tuple in RLqu_cfdfl must have qtype = Q_CSD.
                  The htype must be RTH_CIRCULAR, RTH_LGCIR, RTH_UCD,
                  or RTH_LGUCD if qfid is non zero.


         beartyp   BR_CSD
         isat_idx  0
         rlt_type  RLT_NONE
         rlt_flash DBNO
         psbgrp    0
         ldn_cnt   0

        ************************************************************************/"
```

**Attribute:**

grpnum

**Fullname:**

multiline hunt group number

**Attribute Description:**

For Packet Switching Modem call procesiing (PSMCP) (termclass = RTTC_MODEM), the key with attribute of RLrtdnmpg.grpnum must have valid entry in this relation RLrt_mhg that is rlRTDNMPG.grpnum = rlRT_MHG.grpnum

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**Attribute:**
module
**Fullname:**
hunting module for the multiline hunt group
**Attribute Description:**
GLOBAL GROUPS
---

For Global Groups, the RLrt_mhg.gblgrp must be DBYES.
The RLrt_mhg.module attribute must be populated with the routing module of the DN stored in RLrt_mhg.grp_noc and RLrt_mhg.grp_loc. This is accomplished by using RLrt_mhg.grp_noc and d4 and d3 of RLrt_mhg.grp_loc (where RLrt_mhg.grp_loc is abxx, and a=d4, b=d3) as keys read RLrtdnmod. Set the RLrt_mhg.module as follows:

For PSUCD and PSLGUCD set it equal to RLrtdnmod.psrtg_mod.

For a Global UCD or LGUCD Multiline Hunt Group that is also a Modem Pool Group, ODA and Recent Change will set the attribute module based on the packet routing module assigned for the hundreds group of the Listed TN of the Modem Pool Group. This is accomplished by using the attribute psrtg_mod in relation RLrtdnmod for the hundreds group of the Modem Pool Group's Listed TN. This method applies only for global Modem Pool Groups.

For all other hunt types set it equal to RLrtdnmod.rtg_mod. The previous condition applies when a multiline hunt group is created.

The following checks applies only to ISAT multiline hunt groups when the first member is assigned to the group; Using RLrtdnmod.rtg_mod as key, read RLsmconf. If lpconf.package == GLISDNBASE then RLrt_mhg.module must be updated after the first member of the group is inserted, as follows:
Read RLgroup_port using the keys of RLrt_mhg.grpnum, grptype of TM_LINE, and a member of 1.
Set RLrt_mhg.module == RLgroup_port.port.module

LOCAL GROUPS
---
This is the case whenever ALL members associated with the group physically terminate on a single switching module and RLrt_mhg.gblgrp == DBNO.

For all hunt types except PSUCD and PSLGUCD:
  for all tuples in GROUP_PORT where:
    GROUP_PORT.portgrp.grpnum = RT_MHG.grpnum
  the group is local if and only if:
    GROUP_PORT.port.module = X and RT_MHG.gblgrp == DBNO
  where 'X' is a single switching module number. In this case, set RT_MHG.module = X.

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```
        For hunt types PSUCD and PSLGUCD:
          for all tuples in PSGP_PRT where:
            PSGP_PRT.grpnum = RT_MHG.grpnum
          the group is local if and only if:
            PSGP_PRT.module = X && RT_MHG.gblgrp == DBNO
          where 'X' is a single switching module number.  In
          this case, set RT_MHG.module = X.

        For a local group, the dynamic relation
        tuples for all the members of the group
        must be in the same module.  The following diagram
        defines the correspondence between hunt group types
        (see attribute 'htype') and the dynamic relations for
        each group:

        Hunt Type                           Dynamic Relations
        -------------------------------     -----------------
        CIRCULAR,REGULAR,GUCD,UCD,PSUCD     RLLNSTAT
        LGCIR,LGGUCD,LGREG,LGUCD,PSLGUCD    RLLGLNSTAT
        PPSMHG                              RLLNSTAT,RLPPLNST
        PPLMHG                              RLLGLNSTAT,RLPPLLNST
        MUPH                                RLRTMUPHST
        ISAT                                RLLNSTAT,RLISATUCD

        RC Update Rule
        --------------
        For an existing MLH group, RLrt_mhg.module may not
        be changed from zero to non-zero, nor may it be
        changed from one non-zero value to another. Therefore
        to move a local MLH group to a different module,
        members of the current group must be deleted and a
        new group created with the appropriate module number.
```

**Attribute:**

gblgrp

**Fullname:**

global or local group

**Attribute Description:**

```
        Indicates if the MLHG is a global group (DBYES)
        or a local group (DBNO). If gblgrp is DBYES, then
        the MLHG is a global group ( member ports are spread
        across the SMs ), else the group is a local group
        (members ports are consolidated on one SM).

        When RLrt_mhg.gblgrp == DBNO then,
          for all tuples in GROUP_PORT where:
            GROUP_PORT.portgrp.grpnum = RT_MHG.grpnum
            GROUP_PORT.port.module = X
              where 'X' must be a single switching module number.

          for all tuples in PSGP_PRT where:
            PSGP_PRT.grpnum = RT_MHG.grpnum
```

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```
        PSGP_PRT.module = X
          where 'X' must be a single switching module number.
```

**Attribute:**
ffcf8
**Fullname:**
unsigned 8 reserved for future field feature use
**Attribute Description:**
Not assigned yet

**Attribute:**
size
**Fullname:**
highest member number plus 1
**Attribute Description:**
Highest member number plus 1 if one or more members are present, otherwise 0.
When OUTDIAL members are present they are not included in the size. Therefore size is the highest hunted member plus 1 if one or more hunted members are present; otherwise 0.

Range:
The size for a regular MLHG can range from 0 or 2 to 64 (regular groups may have members 0-63).
Where as the size for a large MLHG can range from 65 to 2016 (large groups may have members 64-2015).

Dependencies:
If for this tuple, htype == RTH_REGULAR or RTH_PPSMHG,
 then size = 0, or 2 <= size <= 64.

If htype == RTH_LGREG, or RTH_PPLMHG,
 then 65 <= size <= 2016.

If htype == RTH_PSUCD or RTH_PSLGUCD, the MHLG is used for packet switching and the range is from 0 or 2 to 64 for RTH_PSUCD, and from 65 to 2016 for RTH_PSLGUCD.

See htype for dependency between htype and size for ISAT groups. If isat_idx is non-zero (indicating this is an ISDN attendant multiline hunt group), then size can be no more than 64. A maximum of 63 members is allowed for ISDN attendant groups.

**Attribute:**
asg_size
**Fullname:**
number of currently assigned members to this group
**Attribute Description:**

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rlRT_MHG.asg_size equals count of tuples in rlGROUP_PORT
where rlGROUP_PORT.portgrp.grpnum = rlRT_MHG.grpnum,
rlGROUP_PORT.portgrp.grptype = TM_LINE.

Note:
rlRT_MHG.asg_size as close as possible to rlRT_MHG.size.
To conserve memory, it is recommended that member numbers
in rlGROUP_PORT and rlPGGPMAP be numbered consecutively,
beginning with the number 1. This does not apply when
htype == RTH_MUPH. Tuples in rlGROUP_PORT that are OUTDIAL
members will not be reflected in asg_size.

If htype = RTH_PSUCD or RTH_PSLGUCD, the MLHG is used for
packet switching. rlRT_MHG.asg_size equals count of tuples
in rlPSGP_PRT where rlPSGP_PRT.grpnum = rlRT_MHG.grpnum,
rlPSGP_PRT.ptype = TM_LINE.

Note:
rlRT_MHG.asg_size <= rlRT_MHG.size.

**Attribute:**
htype
**Fullname:**
hunting type
**Attribute Description:**
Indicates the type of hunting for this group. A large group
is one which may contain more than 63 members.
The following enumerations are valid:

```
RTH_CIRCULAR,   Circular hunt
RTH_REGULAR,    Regular hunt (mlhg)
RTH_LGCIR,      Circular hunt on large groups
RTH_GUCD,       Uniform call distribution
RTH_LGGUCD,     Large group uniform call distribution
RTH_LGREG,      Regular hunt on large groups
RTH_UCD,        Uniform call distribution
RTH_ISAT,       ISDN Attendant Hunt
RTH_MUPH,       Multi position hunt group
RTH_LGUCD,      Large group uniform call distribution
RTH_PSUCD,      acket swtch uniform call distribution
RTH_PSLGUCD,    acket swtch UCD for linear large MLHG
RTH_PPSMHG,     idle/preempt search on small MLHG
RTH_PPLMHG,     idle/preempt search on large MLHG
```

If set to RTH_PPSMHG or RTH_PPLMHG, then every line in this
MLHG must have a tuple in the relation rlPP_LINE.
This can be verified by doing the following:
Find the tuple in rlGROUP_PORT such that:
key rlGROUP_PORT.portgrp.grpnum == grpnum
rlGROUP_PORT.portgrp.grptype == TM_LINE
key rlGROUP_PORT.member == range of valid member numbers
Then for this tuple in rlGROUP_PORT :
rlGROUP_PORT.port == key rlPP_LINE.port.

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A value of RTH_ISAT indicates that the group is an ISAT
( ISdn Attendant Terminal) group.

A multi-line hunt group for packet switching must have a htype
equal to RTH_PSUCD or RTH_PSLGUCD. A packet MLHG can consist of
a mixture of members with the following types of services:
D channel packet, On-Demand B channel packet, PPB, or XAT.

For a given grpnum, there must be a set of tuples in
rtdn_mhg, psmhgdnr, psgp_prt, and psgp_prt relation
such that:

1. rlRT_MHG.grpnum = rlRTDN_MHG.grpnum = rlPSMHGDNR.grpnum
   = rlPSGP_PRT.grpnum = rlPSPRT_GP.grpnum
2. rlPSGP_PRT.ptype = rlPSPRT_GP.ptype = TM_LINE.

There are no matching tuples in group_port or
pggpmap relations.

For PSMCP, htype for modem pool group is RTH_UCD or RTH_LGUCD;
a modem and its associated terminal adapter (TA) in a modem
pool group must be assigned together as one member in that
group. With the same keys of group number (grpnum) and member
number, the relation RLgroup_port will map the port of the
modem while the RLpsgp_prt will map the port of the TA. Hence,
for a given grpnum, there must be a set of tuple in relations
RLgroup_port and RLpsgp_prt such that:

rlRT_MHG.grpnum = rlRTDNMPG.grpnum,
rlGROUP_PORT.grpnum = rlPSGP_PRT.grpnum = grpnum and
rlGROUP_PORT.grptype = rlPSGP_PRT.ptype = TM_LINE.

**Attribute:**

reg

**Fullname:**

group register indicator

**Attribute Description:**

Indicates if a multi-line hunt group has an overflow peg count
register (DBYES) or not (DBNO).
If rlRT_MHG.reg = DBYES, the reg_port attribute must be entered
with a non-null value and a tuple must exist in RLmhg_opts with
RLmhg_opts.ofvreg = DBYES for the MLHG feature assigned to this
multi-line hunt group.

**Attribute:**

reg_port

**Fullname:**

portname of register

**Attribute Description:**

If rlRT_MHG.reg = DBYES, rlRT_MHG.reg_port.member
must be a valid MSU signal distributor point.

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**Attribute:**
reg_port.member
**Fullname:**
member
**Attribute Description:**
See reg_port

**Attribute:**
reg_port.module
**Fullname:**
module number
**Attribute Description:**
See reg_port

**Attribute:**
grpcfv
**Fullname:**
group call forwarding variable
**Attribute Description:**
Indicates if a call forwarding variable feature is assigned to the lead member of the multiline hunt group. DBYES indicates that the CFV feature has an activation type of one of the following: ACTCD_DN, ACTCDDNC, ACTCDNCA, or ACTCDN1A.

**Attribute:**
grpmkbusy
**Fullname:**
group make busy
**Attribute Description:**
Indicates if group make busy is provided for this multi-line hunt group (DBYES) or not (DBNO). For packet switching, grpmkbusy must equal DBNO. Group make busy can be provided either by means of a miscellaneous equipment number (that is scan point) or via a feature button on an ISDN terminal. Only one of these can be assigned for any multiline group.

If DBYES, then:
(1) the miscellaneous equipment number could be entered.
Dependencies: If DBYES, verify if tuple exists such that
rlFC_PORTTYP.servclass = FC_HUNTKEY
rlHUNTKEYS.huntkey_type = FCGRPMKBUSY
rlBIKYPM.e_grpmkbsy == DBNO
or
(2) the feature button could be entered.
Dependencies:
If DBYES, verify that this feature button does

```
not exist for ISAT groups such that
            RLrt_mhg.isat_idx = 0 and
            RLrt_mhg.htype != RTH_ISAT
The group make busy feature button can exist on
all ISDN members of the hunt groups but is only usable
on member 1 (if member 1 is ISDN) of the hunt group
(usability is checked in the ISDN hunt keys software).
The feature button exists if there is a tuple in
RLbnfeat (for the configuration listed in RLis_term for
the lport of member 1) such that RLbnfeat.action =
ACN_BYGP.  Also there must be a tuple in RLbikypm keyed
by this grpnum and member 1 such that RLbikypm.e_grpmkbsy
is DBYES.  Also verify that RLhuntkeys does not
have a tuple such that RLhuntkeys.huntkey_type =
FCGRPMKBUSY for RLhuntkeys.portgrp.grpnum
= RLrt_mhg.grpnum.
```

**Attribute:**

```
inwats
```

**Fullname:**

```
INWATS group indicator
```

**Attribute Description:**

```
Indicates if a multi_line hunt group is INWATS (DBYES)
or not (DBNO).
Dependencies:
Each DN that points to this group must have
rlRT_DNTRAN.termclass = RTTC_INWATS.  For each port
associated with this group, verify if tuples exist such
that:
rlFC_LINE.inwats = DBYES and the class of service is one
of the following: rl_FC_PORTTYP.servclass =
        FCINDVDL
        FC_PBX
        FC_HOTMOTL
        FC_ATTENDANT
        PBXHOTMOT
        FC_ISDN
        FC_ISATND
```

**Attribute:**

```
dummy
```

**Fullname:**

```
dummy field
```

**Attribute Description:**

```
this field was called cfb_ind, removed for 5E5.
```

**Attribute:**

```
first_preempt
```

**Fullname:**

```
first preemptable line in this multiline hunt group
```

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**Attribute Description:**

Indicates the first preemptable line in this Multiline hunt group when the Precedence and Preemption (PP) feature is activated. (A preemptive search is only allowed when htype is set to RTH_PPSMHG, or RTH_PPLMHG.) Therefore, if first_preempt > 0, then htype must be set to either RTH_PPSMHG or RTH_PPLMHG.

Dependency:
The following rules should be applied if htype == RTH_PPSMHG, or RTH_PPLMHG.

1) First_preempt line must be marked preemptable.
   Find the tuple in rlGROUP_PORT such that:
   key rlGROUP_PORT.portgrp.grpnum == grpnum
       rlGROUP_PORT.portgrp.grptype == TM_LINE
   key rlGROUP_PORT.member == first_preempt
   Then for this tuple in rlGROUP_PORT
   rlGROUP_PORT.port == key rlPP_LINE.port.
   For this identified tuple in rlPP_LINE:
   rlPP_LINE.preemptable must equal DBYES.

2) All lines preceding this first_preempt line must be marked non-preemptable and all lines after this first_preempt line must be marked preemptable. This will be checked at the precedence and preemption assignment stage.

**Attribute:**

q_ing

**Fullname:**

queuing indicator

**Attribute Description:**

queuing active on this group?

Dependencies:
If q_ing is DBYES, then qfid must contain a valid queuing feature with modular feature type MFQU (see attribute qfid).
If q_ing is DBYES, the htype must be one of:

- RTH_CIRCULAR,
- RTH_LGCIR,
- RTH_UCD,
- RTH_LGUCD,
- RTH_ISAT,
- RTH_PPSMHG,
- RTH_PPLMHG,
- RTH_MUPH,

For PSMCP q_ing = DBNO

If q_ing is DBNO, then qihtns must be DBNO

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**Attribute:**
monitor
**Fullname:**
monitor
**Attribute Description:**
Indicates that the DN for this MLHG can be monitored on an ISDN attendant BLF/DSS console. DBYES indicates that the DN of this multiline hunt group is monitored by the attendant consoles in the ISDN attendant group keyed by isat_idx.

If RLrt_mhg.monitor == DBYES, then RLrt_mhg.htype must be one of the following:
RTH_CIRCULAR
RTH_LGCIR
RTH_REGULAR
RTH_LGREG
RTH_UCD
RTH_LGUCD
RTH_PPSMHG
RTH_PPLMHG

and a tuple must exist in RLrc_mminf where
(key)RLrc_mminf.mlhg = RLrt_mhg.grpnum
(key)RLrc_mminf.member = 0

Using the RLrc_mminf.att_grp value, retrieve the corresponding attendant tuple from RLrt_mhg where
(key)RLrt_mhg.grpnum = RLrc_mminf.att_grp

The htype of this MLHG must be RTH_ISAT, that is RLrt_mhg.htype = RTH_ISAT.

**Attribute:**
qihtns
**Fullname:**
queuing allowed for individual hunted TN calls indicator
**Attribute Description:**
Indicates if queuing is allowed for individual hunted TN calls.
DBYES - queuing is allowed for individual hunted TN calls
DBNO - queuing is not allowed for individual hunted TN calls

If qihtns is DBYES, then RLrt_mhg.q_ing must be DBYES.

If htype is RTH_ISAT and qihtns = DBYES then
the group must subscribe to the ICI_QUE ici in the RLicx_ici relation keyed by RLrt_mhg.isat_idx.

If qihtns is DBYES then RLrt_mhg.beartyp must be BR_VOICE.

If qihtns is DBYES then RLrt_mhg.htype must not be RTH_MUPH.

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**Attribute:**
qmodule
**Fullname:**
queue module
**Attribute Description:**
qmodule is the switching module on which this group's queue resides.
Dependencies: qmodule must = RLmodatt.module

NOTE:
To better utilize office resources for MLHG groups, it is recommended that when rlRT_MHG.qfid is non-zero, then rlRT_MHG.qmodule be equal to rlRT_MHG.module. This suggestion should be tempered with the requirement found in RLqu_dly indicating that if RLqu_dly.portgrp.grptype equals TM_QLINE then RLqu_dly.ann[x]port.module must equal RLrt_mhg.qmodule where RLrt_mhg is keyed by RLqu_dly.portgrp.grpnum.

If qmodule changes from one SM to another, then tuple changes may be needed in RLms_qan.sm_id and .gp_id if measurements are enabled for the RLrt_mhg.grpnum.

**Attribute:**
qbsize
**Fullname:**
basic queue size
**Attribute Description:**
default parameter queue basic size
Dependencies:
All (qu_os.qbsize + qu_os.qexsize + qu_ogtos.rqsize + qu_ogtos.pqsize) attributes in tuples already assigned to this particular SM must be <= 255 (SM) or <= 4000 on SM-2000

Note: This check is implemented in RLqu_os and RLqu_ogtos.

**Attribute:**
qexsize
**Fullname:**
extended queue size
**Attribute Description:**
default parameter queue extended size
Dependencies:
Same dependencies as for qbsize.

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**Attribute:**
qfid
**Fullname:**
queuing feature id
**Attribute Description:**
Range of values: 0, or
top 6 bits (10 - 15): MFQU (14 [0xe]) (see DMmftyp.G),
bottom ten bits (0 - 9): 1 - 1023 (0x1 - 0x3ff)

Dependencies:
There must be a tuple in RLfacname with RLfacname.facid = qfid
and RLfacname.subclass = SCL_FEAT.

If qfid is non zero, the htype must be one of:
RTH_CIRCULAR,
RTH_LGCIR,
RTH_UCD,
RTH_LGUCD,
RTH_ISAT,
RTH_PPSMHG,
RTH_PPLMHG,
RTH_MUPH,

If qfid is not zero, then a tuple must be found in
relation RLqu_cfdfl, keyed by qfid, with grptype of TM_QLINE.

If RLqu_cfdfl.cwl is DBNO then queuing call waiting
lamps are not provided and tuple must be not be
populated in RLqu_cwl nor in RLisqu_cwl.

If RLqu_cfdfl.cwl is DBYES then queuing call waiting lamps
are provided and a tuple must be populated in RLqu_cwl, RLisqu_cwl
or RLisatmbr (but only one of these, as described in the following).

If RLqu_cfdfl.lmptyp is DP then distribution point
call waiting lamps are provided and there must be a
tuple in RLqu_cwl keyed by RLrt_mhg.grpnum on the
queuing SM (RLrt_mhg.qmodule).

If RLqu_cfdfl.lmptyp is FB and this is not an ISAT group
(RLrt_mhg.htype != RTH_ISAT) then ISDN feature button
call waiting lamps are provided and there must be a
tuple in RLisqu_cwl keyed by RLrt_mhg.grpnum on the
queuing SM (RLrt_mhg.qmodule).

If RLqu_cfdfl.lmptyp is FB and this is an ISAT group
(RLrt_mhg.htype == RTH_ISAT) then there must be a tuple
in RLisatmbr keyed by RLrt_mhg.isat_idx on the
queuing SM (RLrt_mhg.qmodule).

**Attribute:**
mdc

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**Fullname:**
message desk center flag
**Attribute Description:**
Message Desk Center indicator. If mdc is equal to DBYES, this MLHG will serve a Message Desk Center. The mdc must not equal DBYES if the MLHG is used for Modem Pooling, since Modem Pooling is not supported by Message Desk Center.

**Attribute:**
beartyp
**Fullname:**
bearer type
**Attribute Description:**
beartyp can be associated with a predefined feature which is in turn associated with a multiline hunt group. Its value is an indication of the type of calls that can be routed to the multiline hunt group.

dependency:
If hunt type is RTH_ISAT, beartyp must be BR_VOICE.

**Attribute:**
isat_idx
**Fullname:**
isat index
**Attribute Description:**
An abstract version of the multiline hunt group number. The RLfacids relation with class= FAC_ISAT is used to generate unique values of isat_idx, one unique isat_idx for each grpnum with htype of RTH_ISAT.
RLfacids.subclass = SCL_NULL for the RLfacids.class = FAC_ISAT.

When an ISAT multiline hunt group is deleted, a tuple in RLfacids is used to store the unused isat_idx value which can be later allocated to a new ISAT multiline hunt group.

Dependency:
If htype!= RTH_ISAT then set to 0.
If htype = RTH_ISAT then populate tuples in RLicx_ici, RLisatgrp, RLisatmbr, RLisatmod, RLrticitk, and RLrtisatmp.

If RLicx_ici.ici1 - ici16 is populated with FX1 - FX8, TIE1 - TIE8, or CNET ici values then RLrticitk relation must be populated where appropriate. RLicx_ici must always exist with at least LDN1 ici populated for the ISAT to function. This is enforced in RLicx_ici.

Place the RLisatmod tuple in the processor which is designated as the queuing module RLrt_mhg.qmodule.
For RLicx_ici tuples, isat_idx becomes the key and RLicx_ici.grpnum = RLrt_mhg.grpnum.

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**Attribute:**
grp_noc
**Fullname:**
normalized office code of the group's DN
**Attribute Description:**
The normalized office code for the following hunt types:

UCD, LGUCD, PSUCD and PSLGUCD hunt types is the group's noc.
grp_noc = RLrc_pgrprmk.tn.noc for this Hunt Group number.
For PSUCD and PSLGUCD this corresponds to the lower DN in
the range specified.

REGULAR,LGREG,CIRCULAR,LGCIR,PPLHMG and PPSMHG hunt
types is the group's (Member 1's) noc.
grp_noc = RLrc_pgrprmk.tn.noc for this Hunt Group number.

MUPH and ISAT hunt types is the Subgroup 1's noc.
grp_noc = RLrc_sgpdn.tn.noc for this Hunt Group number
and a subgroup of 1.

## 5. RT_MHG Population rules continued.

**Attribute:**
grp_loc
**Fullname:**
locdn of the group's dn in binary
**Attribute Description:**
The last 4 digits, in BINARY, of the Directory Number
for the following hunt types:
UCD, LGUCD, PSUCD and PSLGUCD hunt types is the group's locdn.
grp_loc = RLrc_pgrprmk.tn.digits for this Hunt Group number.
For PSUCD and PSLGUCD this corresponds to the lower DN in
the range specified.

REGULAR,LGREG,CIRCULAR,LGCIR,PPLHMG and PPSMHG hunt
types is the group's (Member 1's) locdn.
grp_loc = RLrc_pgrprmk.tn.digits for this Hunt Group number.

MUPH and ISAT hunt types is the Subgroup 1's locdn.
grp_loc = RLrc_sgpdn.tn.digits for this Hunt Group number
and a subgroup of 1.

NOTE:
EX: FOR Hunt Types like UCD and REGULAR, the grp_loc attribute
is indentical to RLrc_pgrprmk.tn.digits except grp_loc
is not in ASCII. The ASCII character string (tn.digits) is converted
to an integer(grp_loc).

**Attribute:**
grpdn_flag

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**Fullname:**
group/subgroup DN use flag
**Attribute Description:**
DBYES in this field indicates that there is at least one member in the MLHG which sends the group/listed DN or the subgroup DN (ISAT) in the routing message upon originating.

The number of such members is stored in the grpdn_mbrs field of the relation, RC_PGRPRMK.

This field should be set to DBYES only when the grpdn_mbrs counter in RLrc_pgrprmk is non-zero. Conversely, this field should be reset to DBNO only when the grpdn_mbrs counter in RLrc_pgrprmk is zero.

NOTE:
This field is required by call processing software for the UCD and ISAT MLHG hunt types only. However, in order to simplify the administration code and maintain acceptable RC response time performance during hunt type changes, this flag applies to all MLHG hunt types (regular, circular, UCD and ISAT).

**Attribute:**
rlt_type
**Fullname:**
type of Release Link Trunks on this multiline hunt group
**Attribute Description:**
This attribute indicates if the multiline hunt group contains Release Link Trunks (RLTs), and if so, whether the type of hold is permanent or temporary.

Dependencies:
This attribute must be set to RLT_NONE unless the group is a non-ISDN foreign exchange line in a multiline hunt group. The line servclass must be FC_PBX at the branch. This implies:

****** AT THE MAIN ******

1 ) RLfc_porttyp.servclass = FC_PFLASH
2 ) RLrctgrprk.brc = DBYES
3 ) RLrt_trkg.type = RTINCOM
4 ) RLrt_trkg.in_sigtype = DBNOSIG
5 ) RLrt_trkg.out_sigtype = DBNOSIG
6 ) RLfc_trunk.in_startsig = FCDIRCON
7 ) RLfc_trunk.out_startsig = FCSSNULL
8 ) RLfc_trunk.cut_thru = DBNO
9 ) RLfc_porttyp.lp_type = PCFXGRND

***** AT THE BRANCH *****

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```
        1 ) RLfc_line.brc           = DBYES
        2 ) RLfc_line.lpt_type      = LPT_OTHER
        3 ) RLfc_line.signal        = DBTT
        4 ) RLfc_porttyp.lp_type    = PCPBX
        5 ) RLfc_porttyp.servclass  = FC_PBX
        6 ) RLfc_porttyp.slcpbx     = DBYES
```

**Attribute:**
rlt_flash
**Fullname:**
Release Link Trunk flash flag
**Attribute Description:**
This attribute indicates whether or not the branch location can send a flash to the main switch over the RLT during added party disconnect.

Dependencies:
This attribute cannot be DBYES unless rlt_type is RLT_PERM.

**Attribute:**
stats24
**Fullname:**
ISAT load statistics reinitializing period
**Attribute Description:**
Boolean to indicate initialization period. If set to DBYES, period is 24 hrs. THIS ONLY APPLIES TO ISAT MLHGs. If set to DBNO, reinitializing period is 30 minutes for ISAT. For ALL non-ISAT MLHGs, stats24 will always be DBNO.

**Attribute:**
ffcf1
**Fullname:**
boolean reserved for future field feature.
**Attribute Description:**
boolean reserved for future field feature.

**Attribute:**
ffcf2
**Fullname:**
boolean reserved for future field feature
**Attribute Description:**
boolean reserved for future field feature

**Attribute:**
ffcf3
**Fullname:**
boolean reserved for future field feature

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**Attribute Description:**
boolean reserved for future field feature.

**Attribute:**
ffcf4
**Fullname:**
bit reserved for future field feature use
**Attribute Description:**
Not assigned yet

**Attribute:**
ffcf5
**Fullname:**
bit reserved for future field feature use
**Attribute Description:**
Not assigned yet

**Attribute:**
ffcf6
**Fullname:**
unsigned 8 reserved for future field feature use
**Attribute Description:**
Not assigned yet

**Attribute:**
ffcf7
**Fullname:**
unsigned 8 reserved for future field feature use
**Attribute Description:**
Not assigned yet

**Attribute:**
psap
**Fullname:**
E911 Public Safety Answering Point indicator
**Attribute Description:**
This is a boolean used to indicate if the MLHG is an ISDN public safety answering point (PSAP).

Since this feature is secured, this feature must have been previously purchased before the E911 PSAP field can be set to "Y" on RC/V view 3.5.

When E911 PSAP is set to DBYES, the following conditions apply.

This feature does not allow modular queuing, modem pool members, and message service center features.

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The hunt type for this MLHG must be one of the following:
RTH_CIRCULAR
RTH_LGCIR
RTH_REGULAR
RTH_LGREG
RTH_UCD
RTH_LGUCD

The bearer for this feature must be voice.

All members assigned to this MLHG must be ISDN.

**Attribute:**
mon_mode
**Fullname:**
monitoring mode
**Attribute Description:**
This bit is reserved as a place holder for future ISDN Attendant Busy Lamp Field (BLF) development. This bit will be used to select the mode for monitoring the busy/idle status of DNs.

**Attribute:**
sada
**Fullname:**
service after delay announcement
**Attribute Description:**
Indicates if the Service After Delay Announcement feature is active for the hunt group.

Dependencies:
If sada = DBYES then a tuple must exists in the relation QU_DLY where its keys are
QU_DLY.portgrp.grpnum = RT_MHG.grpnum and
QU_DLY.portgrp.grptype = TM_QLINE
and the following is true: QU_DLY.sada = DBYES.

**Attribute:**
psbgrp
**Fullname:**
group number for packet switching data business group service
**Attribute Description:**
Used by packet switching data business group service feature. This feature provides a means of setting up and administering packet switched data business groups, for the purpose of distinguishing between intra-group and other virtual calls on AMA (billing) records.

In 5E5, the primary purpose is to distinguish between intra-

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group and non-intra-grp PVC/VC calls on AMA (billing) records. In 5E8, the PBG purpose has been expanded to allow a common means of abbreviated dialing for members of a PBG, abbreviated calling number delivery for intra-PBG calls, and perhaps most important, the ability to provision a Simulated Facility Group (SFG) for the PBG. An SFG can place a limit on the resources consumed by all the members of the PBG. These resource limits (independently provisioned) are Aggregate Logical Channel Numbers (LCNs) and Throughput Class Negotiation (TPC). When the limit is exceeded by active calls, future calls may either be blocked or charged at a premium rate.

This attribute contains the packet switching data business group number, or 0 (zero) if this multiline hunt group is not a member of any packet business group.

Dependency:
All members of a packet business group must be on the same 5ESS(R)-2000 switch.

A MLHG is in at most one packet switching business group.

The psbgrp attribute is only valid for packet MLHG and modem pool MLHG.

```
If ((htype is_not_equal RTH_PSUCD) and
    (htype is_not_equal RTH_PSLGUCD) and
    (htype is_not_equal RTH_UCD) and
    (htype is_not_equal RTH_LGUCD))
{ psbgrp := 0;}
```

If this attribute does not equal 0, then the Packet Business Group Must be assigned and therefore a tuple of RLpbg_sfg and RLpbg_info must exist.

**Attribute:**
ldn_cnt
**Fullname:**
Linear DNs Count
**Attribute Description:**
For packet switching Multi-Line Hunt Groups, the ldn_cnt attribute specifies the number of linear entry point DNs that are assigned.

The ldn_cnt does not apply to MLHGs that don't have a packet hunt type.

The ldn_cnt must be equal the number of linear entry point DNs found in RLpsgp_ldn where the packet MLHG number is the same.

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**Attribute:**
freeterm
**Fullname:**
Free Termination
**Attribute Description:**
Reflects the value of freeterm of member 1 of the MLHG.

**Attribute:**
fga
**Fullname:**
Feature Group A
**Attribute Description:**
Reflects the fga value of member 1 of the MLHG.

**Attribute:**
bcl_assign
**Fullname:**
BCLID Assign
**Attribute Description:**
This boolean attribute specifies whether BCLID is assigned to this MLHG.

**Attribute:**
ported
**Fullname:**
ported indicator
**Attribute Description:**
This attribute indicates if the hunt group associated with this tuple is ported by the Number Portability feature. The group ported indicator takes precedence over the individual ported indicator found in RLfc_line or RLis_line. The indicator that will be used (either the individual or the group ported indicator) will be determined by call processing.

**Attribute:**
ctxid
**Fullname:**
Context Identifier
**Attribute Description:**
This attribute indicates if the MLHG associated with this tuple is unbundled or resold. A MLHG is unbundled if ctxid = CTXID_UNBNLD; it is resold if ctxid = CTXID_RESOLD.

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# RT_MISC

## 1. Description

Miscellaneous RT information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | SMrtmisc |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| foldtype | DBDEFAULT |

## 3. Field Layout

```
RT_MISC     relid = 1747  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     rtname      DMCIRCUIT    (ushort)     <--- key
     sid         DMSHORT      (short)
     hi_line     DMRTLINES    (ushort: 12)
 (a) ber_thres   DMBERTHRES   (ushort: 3)
 (b) rtint       DMRTINT      (enum: 1)
     num_dsl     DMRTLINES    (ushort: 12)
 (c) ckttest     DMCKTTEST    (enum: 2)
 (d) pow_alarm   DMENVCLA     (enum: 2)
     vendor      DMCHAR25     (array [ 25 ] of char )
 (e) inhdslmaint  DMBOOL       (enum: 1)
     mtbcrkt     DMGCIRCUIT   (struct)
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout    RT_MISC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             rtname            |              sid              |
    |---------------+---------------+---------------+---------------|
    |                       |     | |                       |   |   |
  4 |        hi_line        |  a  |b|        num_dsl        | c | d |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             vendor                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                             vendor                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                             vendor                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
```

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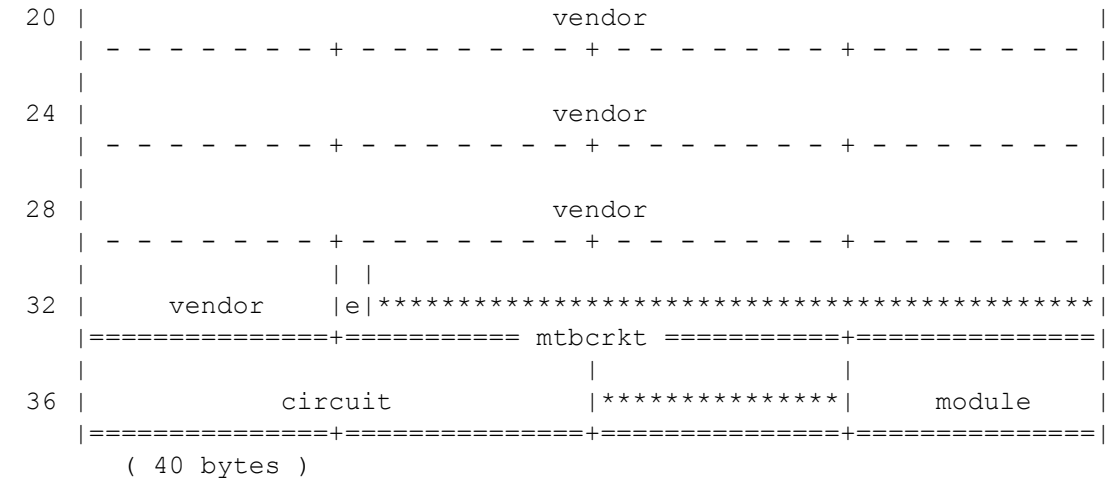


( 40 bytes )

## 4. Population Rules for RLrt_misc

**Relation Description**

Miscellaneous Remote Terminal Data.

This relation maps the remote terminal (RT) circuit name to miscellaneous per-RT data.

**Attribute: rtname**

**Fullname:** Remote Terminal Circuit Name

**Attribute Description** This is the internal circuit name of the RT.

**Attribute: rtint**

**Fullname:** RT Interface

**Attribute Description** This is the RT interface (TR8 or TR303).

**Attribute: hi_line**

**Fullname:** Number of Lines Terminated

**Attribute Description** For TR8 RTs, the value of this attribute is the highest equipped external line number, which is between 0 and 96 inclusive. For TR303 RTs, the value of this attribute is equal to the number of RLfc_porttyp tuples that currently exist for ports on this RT.

**Attribute: mtbcrkt**

**Fullname:** Metallic Test Bus Global Circuit Name

**Attribute Description** When the MTB is used for circuit testing, this is the MTB global circuit name. When a different circuit testing method is used, both components of this structure will be 0.

**Attribute: mtbcrkt.circuit**

**Fullname:** Circuit Name in MTB Global Circuit Name

**Attribute Description** This is the internal circuit name component of the MTB global circuit name.

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**Attribute: mtbcrkt.module**

**Fullname:** Switching Module Number in MTB Global Circuit Name

**Attribute Description** This is the switching module number component of the MTB global circuit name.

**Attribute: sid**

**Fullname:** RT Site Identifier

**Attribute Description** This is the RT site identifier (SID), which uniquely identifies an RT within an office.

**Attribute: ckttest**

**Fullname:** Circuit Testing Method

**Attribute Description** This is the circuit testing method (RTU, MTB-short, MTB-diode, or none).

**Attribute: pow_alarm**

**Fullname:** Power Alarm Classification

**Attribute Description** This is the power alarm classification (major or minor for TR8; critical, major, or minor for TR303).

**Attribute: ber_thres**

**Fullname:** Bit Error Rate Threshold for Protection Line Switch

**Attribute Description** This is a representation of the bit error rate threshold for protection line switch. The actual bit error ratio is ten raised to a power equal to the negative of the value of this attribute, that is 10^(- ber_thres).

When the bit error rate threshold is exceeded on a particular DS1, a protection line switch is attempted assuming that a protection line is available.

**Attribute: vendor**

**Fullname:** RT Vendor Name

**Attribute Description** This is the name of the RT vendor.

**Attribute: num_dsl**

**Fullname:** Number of Digital Subscriber Lines

**Attribute Description** This is the number of digital subscriber lines (DSL)s assigned to this RT.

**Attribute: inhdslmaint**

**Fullname:** Inhibit DSL Maintenance

**Attribute Description** This allows the ability to inhibit DSL maintenance for all DSLs whose interface type is TR303.

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**Defines:**"db/DMcircuit.h"

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# RT_MPG

## 1. Description

Modem pool hunt group information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| expected number of tuples | 200 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFR |
| application | GPRTG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |
| corcable | DBNO |

## 3. Field Layout

```
RT_MPG      relid = 819   DBSTATIC   DBACC_CIND  DBPRAM    LPFR    GPRTG
     grpnum      DMGRUPNM     (ushort: 11)  <--- key
 (a) pooltype    DMPOOLTYPE   (enum: 3)
 (b) maint       DMBOOL       (enum: 1)
 (c) monitor     DMBOOL       (enum: 1)
     dialseq     DMMPDIAL     (array [ 5 ] of char )
 (d) idp         DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout RT_MPG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |     | | |                             |
  0 |        grpnum         |  a  |b|c|            dialseq           |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
    |                                                   | |           |
  4 |                    dialseq                        |d|***********|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLrt_mpg

**Relation Description** Modem pool hunt group information.

Information concerning this section is not available at this time.

**Attribute: grpnum**

**Fullname:** modem pool hunt group number

**Attribute Description** Existence of tuple in RLrt_mhg with key value:
key RLrt_mhg.grpnum = RLrt_mpg.grpnum.
Group must be an uniform call distribution (UCD) hunt type.

**Attribute: dialseq**

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**Fullname:** dialing sequence for modem

**Attribute Description** This array contains the modem prefix dialing code, a string of characters that tells the modem that it is to begin dialing. The dialing sequence consists of any printable characters. The dialing code is determined solely by the modem manufacturer, which means that a modem pool group can contain only one brand of modem. Modems that require non-printable characters (such as combination of CTRL and another character) cannot be used in a Modem Pool Group. This field is left justified. The range is 1-5 characters with null padding on the right.

**Attribute: maint**

**Fullname:** group maintenance indicator

**Attribute Description** If this modem pool is public, then this field must be BYES. If the modem pool is private and the operating company has a contract to maintain it, this field must be DBYES. If the modem pool is private and the operating company does not have contract to maintain it, this field must be DBNO.

**Attribute: monitor**

**Fullname:** Tells that the DN associated with this MLHG is busy monitorable or not.

**Attribute Description** This field tells the DN associated with this MLHG in RLrtdnmpg the 'dsldn' field) is monitorable using the ISDN attendant console BLF light.

**Attribute: idp**

**Fullname:** Whether 4-digit dialing is supported to reach any modem pool member in the group.

**Attribute Description** This field tells whether the office where the group resides supports 4-digit dialing to any modem pool member in this modem pool group. If so, the field should be set to DBYES. Otherwise, set to DBNO.

**Attribute: pooltype**

**Fullname:** pool type of MLHG

**Attribute Description** This field tells the pool type of this MLHG. Possibilities are public or private. A private pool must be either billed or not billed. If a private pool is billed, pooltype is set to MPPVTBILL. If a private pool is not billed, pooltype is set to MPPVTNOBILL. If the pool is public, only the speed is given. The possible speeds are MP300BPS-MP9600BPS. This is a mandatory field. This field must not be set to MPNULL.

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# RT_POLY

## 1. Description

This relation contains route patterns consisting of a direct route, three triples and the RCD digits. This is used for doing polygrid routing.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16382 |
| expected tuples | 44 |
| density | 47 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
RT_POLY     relid = 794   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    GCRTG
     pattern     DMRTEIDX     (ushort: 14)     <--- key
 (a) grid        DMGRIDTYPE   (enum: 2)
 (b) rotate      DMBOOL       (enum: 1)
 (c) immed_pr    DMBOOL       (enum: 1)
     dr_ri       DMRTEIDX     (ushort: 14)
     f1_ri       DMRTEIDX     (ushort: 14)
     f2_ri       DMRTEIDX     (ushort: 14)
     f3_ri       DMRTEIDX     (ushort: 14)
     s1_ri       DMRTEIDX     (ushort: 14)
     s2_ri       DMRTEIDX     (ushort: 14)
     s3_ri       DMRTEIDX     (ushort: 14)
     t1_ri       DMRTEIDX     (ushort: 14)
     t2_ri       DMRTEIDX     (ushort: 14)
     t3_ri       DMRTEIDX     (ushort: 14)
     pad         DMUNS2       (ushort: 2)
 (d) dr_rcd0     DMPP_RCD     (enum: 2)
 (e) dr_rcd1     DMPP_RCD     (enum: 2)
 (f) dr_rcd2     DMPP_RCD     (enum: 2)
 (g) dr_rcd3     DMPP_RCD     (enum: 2)
 (h) f1_rcd0     DMPP_RCD     (enum: 2)
 (i) f1_rcd1     DMPP_RCD     (enum: 2)
 (j) f1_rcd2     DMPP_RCD     (enum: 2)
 (k) f1_rcd3     DMPP_RCD     (enum: 2)
 (l) f2_rcd0     DMPP_RCD     (enum: 2)
 (m) f2_rcd1     DMPP_RCD     (enum: 2)
 (n) f2_rcd2     DMPP_RCD     (enum: 2)
 (o) f2_rcd3     DMPP_RCD     (enum: 2)
 (p) f3_rcd0     DMPP_RCD     (enum: 2)
 (q) f3_rcd1     DMPP_RCD     (enum: 2)
 (r) f3_rcd2     DMPP_RCD     (enum: 2)
 (s) f3_rcd3     DMPP_RCD     (enum: 2)
 (t) s1_rcd0     DMPP_RCD     (enum: 2)
 (u) s1_rcd1     DMPP_RCD     (enum: 2)
 (v) s1_rcd2     DMPP_RCD     (enum: 2)
```

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```
(w) s1_rcd3     DMPP_RCD     (enum: 2)
(x) s2_rcd0     DMPP_RCD     (enum: 2)
(y) s2_rcd1     DMPP_RCD     (enum: 2)
(z) s2_rcd2     DMPP_RCD     (enum: 2)
(A) s2_rcd3     DMPP_RCD     (enum: 2)
(B) s3_rcd0     DMPP_RCD     (enum: 2)
(C) s3_rcd1     DMPP_RCD     (enum: 2)
(D) s3_rcd2     DMPP_RCD     (enum: 2)
(E) s3_rcd3     DMPP_RCD     (enum: 2)
(F) t1_rcd0     DMPP_RCD     (enum: 2)
(G) t1_rcd1     DMPP_RCD     (enum: 2)
(H) t1_rcd2     DMPP_RCD     (enum: 2)
(I) t1_rcd3     DMPP_RCD     (enum: 2)
(J) t2_rcd0     DMPP_RCD     (enum: 2)
(K) t2_rcd1     DMPP_RCD     (enum: 2)
(L) t2_rcd2     DMPP_RCD     (enum: 2)
(M) t2_rcd3     DMPP_RCD     (enum: 2)
(N) t3_rcd0     DMPP_RCD     (enum: 2)
(O) t3_rcd1     DMPP_RCD     (enum: 2)
(P) t3_rcd2     DMPP_RCD     (enum: 2)
(Q) t3_rcd3     DMPP_RCD     (enum: 2)
        User, Compacted and Stored Tuple Layout    RT_POLY
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |   | | |                       |
 0 |          pattern              | a |b|c|           dr_ri           |
   |---------------+---------------+---------------+---------------|
   |                               |   |                       |   |
 4 |           f1_ri               |***|           f2_ri           |***|
   |---------------+---------------+---------------+---------------|
   |                               |   |                       |   |
 8 |           f3_ri               |***|           s1_ri           |***|
   |---------------+---------------+---------------+---------------|
   |                               |   |                       |   |
12 |           s2_ri               |***|           s3_ri           |***|
   |---------------+---------------+---------------+---------------|
   |                               |   |                       |   |
16 |           t1_ri               |***|           t2_ri           |***|
   |---------------+---------------+---------------+---------------|
   |                               |   |   |   |   |   |   |   |   |   |
20 |           t3_ri               |pad| d | e | f | g | h | i | j | k |
   |---------------+---------------+---------------+---------------|
   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
24 | l | m | n | o | p | q | r | s | t | u | v | w | x | y | z | A |
   |---------------+---------------+---------------+---------------|
   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
28 | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q |
   |---------------+---------------+---------------+---------------|
      ( 32 bytes )
```

## 4. Population Rules for RLrt_poly

### Relation Description

Polygrid routing.

Relation that contains route patterns consisting of a direct route, three triples and the RCD digits. Used for doing polygrid routing. Alternate Declaration for RLrt_poly Attributes dr_ri, f1_ri, f2_ri, f3_ri, s1_ri, s2_ri, s3_ri, t1_ri, t2_ri, and t3_ri are grouped together in an array called ris. This array has ris [0] containing dr_ri, ris [1] = f1_ri ..... The RCDs associated with these ri's are also grouped in an array called rcds. This array has four 2-bit rcds (that is, 1 character) for each ri. In this case, rcds [0] contains dr_rcd0 in bits 0-1, dr_rcd1 in bits 2-3, dr_rcd2 in bits 4-5, and dr_rcd3 in bits 6-7.

The following section is taken directly from RLrt_poly.P to provide overview of route indexes attributes :

```
dr_rcd0  route control digits for direct route
through
dr_rcd3 Range: PPRCD0, PPRCD1, PPRCD2, or PPRCD3
        Default: No default values
        Dependency: if dr_ri == 0, then all four dr_rcds
        (0-3) must equal PPRCD0
f1_ri   route indexes for first triple
through
f3_ri   Range: 0 - route does not exist
               1 - AVRIMAX() - valid route index
        Default: No default values
        Dependency: f1_ri != f2_ri != f3_ri and verify
        existence in RLrt_routing with these ri's as the
        key for each ri != 0.
f1_rcd0  rcds associated with first triple first route
through
f1_rcd3 Range: PPRCD0, PPRCD1, PPRCD2, or PPRCD3
        Default: No default values
        Dependency: if the associated f1_ri = 0, then
        all four f1_rcd (0-3) must be PPRCD0
f2_rcd0 rcds associated with first triple second route
through
f2_rcd3 Range: PPRCD0, PPRCD1, PPRCD2, or PPRCD3
        Default: No default values
        Dependency: if the associated f2_ri = 0, then
        all four f2_rcd (0-3) must be PPRCD0
f3_rcd0 rcds associated with first triple third route
through
f3_rcd3 Range: PPRCD0, PPRCD1, PPRCD2, or PPRCD3
        Default: No default values
        Dependency: if the associated f3_ri = 0, then
        all four f3_rcd (0-3) must be PPRCD0
s1_ri   see f1_ri thru f3_ri and substitute first triple
through
s3_ri   with second triple and f1-f3 with s1-s3
s1_rcd0 - s1_rcd3  see f1_rcd0 through f1_rcd3
s2_rcd0 - s2_rcd3  see f2_rcd0 through f2_rcd3
s3_rcd0 - s3_rcd3  see f3_rcd0 through f3_rcd3
t1_ri thru  see f1_ri thru f3_ri and substitute first triple
t3_ri       with third triple and f1-f3 with t1-t3
t1_rcd0 - t1_rcd3  see f1_rcd0 through f1_rcd3
t2_rcd0 - t2_rcd3  see f2_rcd0 through f2_rcd3
t3_rcd0 - t3_rcd3  see f3_rcd0 through f3_rcd3"
```

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**Attribute: pattern**

**Fullname:** Route Pattern

**Attribute Description** Route pattern (route index from other relations).

**Attribute: grid**

**Fullname:** Home Grid Routing

**Attribute Description** Interior or exterior home grid routing provides the ability to assign one interior pattern and up to 3 exterior patterns where the interior pattern contains routes within the home grid.

**Attribute: rotate**

**Fullname:** Rotate

**Attribute Description** Rotation within triples allowed on precedence call.
DBYES for rotate,
DBNO for no rotate

**Attribute: immed_pr**

**Fullname:** Immediate Preemption

**Attribute Description** Immediate preemption on this route (NORAD/SAGE ROUTE).
DBYES do immediate preempt search
DBNO do not do immediate prempt search.

**Attribute: dr_ri**

**Fullname:** Direct Route Index

**Attribute Description** Direct route index:
0 - No direct route in this pattern
1 - AVRIMAX() valid route index.

**Attribute: f[*]_ri**

**Fullname:** First Triple

**Attribute Description** Route indexes for first triple:
0 - Route does not exist.
1 - AVRIMAX() - valid route index.
Dependency: f1_ri != f2_ri != f3_ri and verify existence in RLrt_routing with these ri's as the key for each ri != 0.

**Attribute: s[*]_ri**

**Fullname:** Route Indexes for Second Triple

**Attribute Description** Route indexes for second triple.
See f1_ri thru f3_ri and substitute first triple with second triple and f1-f3 with s1-s3.

**Attribute: t[*]_ri**

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**Fullname:** Route Indexes for Third Triple

**Attribute Description** Route indexes for third triple.
See f1_ri thru f3_ri and substitute first triple with third triple and f1-f3 with t1-t3.

**Attribute: pad**

**Fullname:** Pad

**Attribute Description** Used as filler attribute.

**Attribute: dr_rcd[*]**

**Fullname:** Route Control Digits for Direct Route

**Attribute Description** Route control digits for direct route.
Dependency: if dr_ri == 0, then all four dr_rcds (0-3) must equal PPRCD0.

**Attribute: f1_rcd[*]**

**Fullname:** Route Control Digits (rcds) First Triple First Route

**Attribute Description** Rcds associated with first triple first route.
Dependency: if the associated f1_ri = 0, then all four f1_rcd (0-3) must be PPRCD0.

**Attribute: f2_rcd[*]**

**Fullname:** Route Control Digits (rcds) First Triple Second Route

**Attribute Description** Rcds associated with first triple second route
Dependency: if the associated f2_ri = 0, then all four f2_rcd (0-3) must be PPRCD0.

**Attribute: f3_rcd[*]**

**Fullname:** Route Control Digits (rcds) First Triple Third Route

**Attribute Description** Rcds associated with first triple third route
Dependency: if the associated f3_ri = 0, then all four f3_rcd (0-3) must be PPRCD0.

**Attribute: s1_rcd[*]**

**Fullname:** Route Control Digits (rcds) Second Triple First Route

**Attribute Description** Rcds associated with second triple first route. See f1_rcd0 through f1_rcd3.

**Attribute: s2_rcd[*]**

**Fullname:** Route Control Digits (rcds) Second Triple Second Route

**Attribute Description** Rcds associated with second triple second route. See f2_rcd0 through f2_rcd3

**Attribute: s3_rcd[*]**

**Fullname:** Route Control Digits (rcds) Second Triple Third Route

**Attribute Description** Rcds associated with second triple third route. See f3_rcd0 through f3_rcd3.

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**Attribute: t1_rcd[*]**

**Fullname:** Route Control Digits (rcds) Third Triple First Route

**Attribute Description** Rcds associated with third triple first route. See f1_rcd0 through f1_rcd3.

**Attribute: t2_rcd[*]**

**Fullname:** Route Control Digits (rcds) Third Triple Second Route

**Attribute Description** Rcds associated with third triple second route. See f2_rcd0 through f2_rcd3.

**Attribute: t3_rcd[*]**

**Fullname:** Route Control Digits (rcds) Third Triple Third Route

**Attribute Description** Rcds associated with third triple third route. See f3_rcd0 through f3_rcd3.

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# RT_ROUTING

## 1. Description

This relation contains the routing data expansion.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16382 |
| expected tuples in relation | 700 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFR |
| application | GCRTG |
| relation type | DBSTATIC |
| tsbal - time space balance | DBSPEED |
| spare | 4b |
| ks key store | AUTO |

## 3. Field Layout

```
RT_ROUTING  relid = 60    DBSTATIC   DBACC_CIND  DBPRAM    LPFR    GCRTG


    pref        DMPREFSTRING (array [ 10 ] of char )
    route_x     DMRTEIDX     (ushort: 14)      <--- key
(a) ovlap_ind   DMBOOL       (enum: 1)
(b) two_stage   DMBOOL       (enum: 1)
    sec_rte_x   DMRTEIDX     (ushort: 14)
(c) rel_link_type  DMRLNKTYPE   (enum: 2)
    tnsc        DMTNSC       (ushort: 10)
(d) route_type  DMROUTE      (enum: 4)
(e) cpnsubsc    DMBOOL       (enum: 1)
(f) csi_subsc   DMBOOL       (enum: 1)
    trignum     DMUNS8       (ushort: 8)
    ani_ii_digs  DMUNS7       (ushort: 7)
(g) ani_ind     DMBOOL       (enum: 1)
    nbr_del     DMDIGCNT     (uchar: 4)
(h) nbr_pref    DMDIGCNT     (uchar: 4)
(i) rt_descript  DMRTDESTYP   (enum: 4)
(j) ckt_code    DMUNS4       (ushort: 4)
(k) rte_srchlmt  DMUNS4       (ushort: 4)
(l) sig_pro     DMSIG_PRO    (enum: 3)
(m) uui_subsc   DMBOOL       (enum: 1)
(n) atp_subsc   DMBOOL       (enum: 1)
(o) ffcf1       DMBOOL       (enum: 1)
(p) ffcf2       DMBOOL       (enum: 1)
(q) ffcf3       DMBOOL       (enum: 1)
(r) ffcf4       DMBOOL       (enum: 1)
(s) exp_cic     DMBOOL       (enum: 1)
(t) lec_os      DMBOOL       (enum: 1)
(u) cicp_subsc  DMBOOL       (enum: 1)
(v) tdr         DMBOOL       (enum: 1)
(w) rtlist_key  DMBOOL       (enum: 1)
(x) eon_sup_cn  DMBOOL       (enum: 1)
    portgrp     DMPORTGRP    (struct)
        grpnum      DMGRPNUM     (ushort)
```

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```
(y)     grptype     DMPTYPE      (enum: 1)
        User, Compacted and Stored Tuple Layout RT_ROUTING
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                             pref                              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 4 |                             pref                              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                           | | |
 8 |             pref              |          route_x          |a|b|
   |---------------+---------------+---------------+---------------|
   |                           |   |                   |       | | |
12 |         sec_rte_x         | c |        tnsc       |   d   |e|f|
   |---------------+---------------+---------------+---------------|
   |               |             | |       |       |       |       |
16 |    trignum    | ani_ii_digs |g|nbr_del|   h   |   i   |   j   |
   |---------------+---------------+---------------+---------------|
   |       |     | | | | | | | | | | |                               |
20 |   k   |  l  |m|n|o|p|q|r|s|t|u|v|w|x|***************************|
   |===============+=========== portgrp ===========+===============|
   |                               |             | |               |
24 |             grpnum            |*************|y|***************|
   |===============+===============+===============+===============|
      ( 28 bytes )
```

## 4. Population rules for RLrt_routing

### Relation Description

Routing

Routing data expansion.

RLrt_routing (outgoing local test desk - OG LTD)
Fixed Route Index = TM_TSTTK

DESCRIPTION:

This relation specifies the route index which points to the trunk group for outgoing (OG) local test desk (LTD) connections. Outgoing LTD trunks provide access to external test systems (LTD, mechanized loop testing [MLT], Fortel, etc.) for test calls initiated at the subscriber line.

Routing for OG LTD test calls are handled differently for remote modules (remote switching module [RSM], optically remote switching module [ORM], two mile ORM [TRM], multi-module remote switching module [MMRSM] cluster, etc.) than they are for modules within the host office. This difference in handling is dictated by the lack of metallic linkage to the host office. The three-digit or seven-digit OG LTD test code

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may be the same for the entire office, including remote modules. This test code will point to a fixed route type of TM_TSTTK. The route index associated with type TM_TSTTK, however, will be applicable only to modules in the host office, and will point to the trunk group containing all OG LTD test trunks in the host office.

Each remote module/cluster which is not metallically linked to the host office must have its own outgoing LTD trunk group (containing one or more trunk members). The route index assigned to that trunk group must be unique from that associated with TM_TSTTK. This route index must be populated in the parameter Glltdri for the remote module. When an OG LTD call is made using the access code, a check is made on the type of module from which the call originated. If it is a host office module, routing is done via rixed route type TM_TSTTK. If it is a remote module, the code routes to the trunk group in the module via the route index contained in Glltdri.

Note that incoming LTD test trunks are not hunted and do not use route indices. Therefore this relation is not applicable for incoming LTD test trunk groups.

QUANTITY OF TUPLES:

One tuple is required in RLrt_routing for each route index associated with an outgoing LTD test trunk group.

TUPLE SEMANTICS:

RLrt_routing attributes should be populated as shown in the following lines. Any attribute not specified should be populated with the default value.

```
route_x (KEY)   - Route index associate with OG LTD trunk
                  group.
route_type      - RTE_HUNT.
portgrp.grpnum  - Outgoing LTD trunk group number.
portgrp.grptype - TM_TRK.
sec_rte_x       - Route index for reorder.
sig_pro         - Traditional (TRAD).
```

RLrt_routing (for fixed route index TM_CBAK)

DESCRIPTION:

This relation must be populated for the route index associated with the fixed route type of TM_CBAK. Population rules are specified in RLrt_fixedri for this case. This route index must point to the trunk group associated with the callback logical test ports of

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servclass TM_CALLBACK.

QUANTITY OF TUPLES:

One tuple for the fixed route associated with TM_CBAK fixed type.

TUPLE SEMANTICS:

```
route_x         - Assigned by office.
route_type      - RTE_HUNT.
portgrp.grpnum  - Assigned by office.
portgrp.type    - TM_TRK.
sec_rte_x       - Assigned by office (reorder is suggested).
```

It is recommended that the following attributes be set
to their default values:

```
        nbr_del                 pref
        nbr_pref.digcnt         sig_pro (TRAD)
        ani_ind                 ovlap_ind
        two_stage
```

These values are not checked by ODA or RC/V, but
this will avoid executing operational routing code
that is unnecessary for the Callback test call.

## RLrt_routing (for DCTU route index)

DESCRIPTION:

This relation must be populated for the route index associated with each singular directly connected test unit (DCTU) trunk group assigned. This route index must point to the DCTU trunk group associated with the DCTUPORT logical test ports (LTPs) of servclass TMLTPDCTU.

Note:

1. It is possible to have any number of route indices associated with the same trunk group number. It is recommended that there be one singular DCTU route index for each DCTU trunk group of servclass TMLTPDCTU. It is valid to have more than one DCTU route index assigned to a singular DCTU trunk group number. Each DCTU trunk group must be defined in relation RLRT_TRKG and RLRCTGRPRK.
   See the population rules for RLrt_trkg and RLrctgrprk.

2. It is recommended that there be a singular DCTU trunk group number for each DCTU equipped in a host 5ESS(R)-2000 switch processing entity. However, it is valid for a DCTU trunk group to include all DCTU trunk members from any number of DCTUs residing in the host 5ESS(R)-2000 switch processing entity. There would still be only one DCTU route index associated with this DCTU trunk group.

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3. There must be a singular RSM DCTU route index for each singular RSM DCTU trunk group. All the members of an RSM DCTU trunk group must be defined in that RSM.

4. When only one DCTU serves a host 5ESS(R)-2000 switch entity, the value for the secondary route index (sec_rte_x) associated with this DCTU route index must be either the null value zero or the office value for REORDER. The route_type for REORDER is 'RTE_REORDER.' (There is a separate entry in this relation for route_type of 'RTE_REORDER'.) See also the population rules for RLmodatt.

5. When a host DCTU trunk group is made up of any number of DCTU residing in the host switch, the DCTU route index associated with this trunk group effectively serves the entire host switch. (Each DCTU indirectly services any line in the host.) Here, the value for the secondary route index (sec_rte_x) associated with this DCTU route index must be assigned the null value zero or the office value for REORDER. See also the population rules for RLmodatt.

6. When a DCTU serves a RSM, the value for the secondary route index (sec_rte_x) associated with this RSM DCTU route index must be assigned the null value zero or the office value for REORDER.

7. The following is the recommended rule when there are two DCTUs serving a host 5ESS(R)-2000 switch entity. Here, each DCTU explicitly services half the testing load. There is a singular DCTU trunk group assigned to each DCTU. There is a singular DCTU route index (route_x) assigned to each DCTU trunk group. (More details on this scenario are provided in the population rules for RLmodatt.) The secondary route index (sec_rte_x) for each of the two singular DCTU route indices (route_x) points to the other DCTU route index. This assignment allows RTA to route automatically to the other DCTU (DCTU route index) if the first choice is busy.

   This scenario can be carried through to its logical conclusion if there are more than two DCTUs, each with its own singular DCTU route index, serving the HOST processing entity.

8. There must be a corresponding entry in the relation RLRCRTIRMK. See the population rules for RLrcrtirmk. There are no changes needed to the population rules for this relation.

9. The same restrictions that apply to RSM also apply to ORM/TRM.

QUANTITY OF TUPLES:

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One tuple for each DCTU route index associated with a singular DCTU trunk group defined by 'portgrp.grpnum.'

TUPLE SEMANTICS:

```
route_x          - Value assigned by office.
route_type       - RTE_HUNT.
portgrp.grpnum   - DCTU trunk group number.  Corresponds to
                   entry in RLRT_TRKG and RLRCTGRPRK.
portgrp.type     - TM_TRK.
nbr_del          - Zero (default).
pref             - Zero (default).
nbr_pref.digcnt  - Zero (default).
sig_pro          - TRAD.
ani_ind          - DBNO.
ovlap_ind        - DBNO.
rt_descript      - RT_OTHER.
sec_rte_x        - See the previous items 4, 5, 6 and 7.
                   The most common value will be either zero
                   or the route_x corresponding to a route_type of
                   'RTE_REORDER'.
```

RLrt_routing (For ISTF Route Index)

DESCRIPTION:

This relation must be populated for the route index associated with each integrated services test function (ISTF) trunk group assigned. This route index must point to the ISTF trunk group associated with each ISTF LTP type.

QUANTITY OF TUPLES:

One tuple for each ISTF LTP type.

TUPLE SEMANTICS:

```
route_x          - Value assigned by office.
route_type       - RTE_HUNT, RTE_TM
portgrp.grpnum   - ISTF trunk group number.  There has to be a
                   corresponding entry in RLRT_TRKG and RLRCTGRPRK.
portgrp.type     - TM_TRK.
nbr_del          - Zero (default).
pref             - Zero (default).
nbr_pref.digcnt  - Zero (default).
sig_pro          - TRAD.
ani_ind          - DBNO.
ovlap_ind        - DBNO.
rt_descript      - RT_OTHER.
sec_rte_x        - RTE_REORDER.
```

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RLrt_routing (for DSU2-RAF/SAS Port Groups)

DESCRIPTION:

This relation must be populated for every digital service unit model 2 with recorded announcement function (DSU2-RAF) and/or Service Announcement System (SAS) port group route index as defined in RT_FIXEDRI and other. Each port group uses existing trunk group hunt mechanisms to route to an idle RAF/SAS port through which an appropriate announcement will be given.
For every tuple populated in this relation, a corresponding tuple should be populated in the RCRTIRMK relation for recent change purposes.

QUANTITY OF TUPLES:

One tuple for each DSU2-RAF/SAS port group.

TUPLE SEMANTICS:

| | |
|---|---|
| route_x | - Value assigned by office. |
| route_type | - RTE_HUNT. |
| portgrp.grpnum | - RAF/SAS port group number as defined in RT_TRKG and RCTGRPRK. |
| portgrp.type | - TM_TRK. |
| nbr_del | - Zero (default). |
| pref | - Not applicable - use `\0`. |
| nbr_pref | - Zero (default). |
| sec_rte_x | - Zero (no secondary routing, except for FC_RAFANNC. FC_RAFANNC must have secondary routing to either RTE_HUNT or RTE_REORDER). |
| sig_pro | - TRAD. |
| ani_ind | - DBNO. |
| ovlap_ind | - DBNO. |
| two_stage | - DBNO. |
| rt_descript | - Not applicable. |

RECENT CHANGE/ODA RULES
DSU2-RAF (non-dial through announcement [DTA]) and SAS port groups:
For each DSU2-RAF/SAS port group not having the dial-through announcement capability, there may exist a tuple with a key value of 'grpnum' in this relation that corresponds to an RLfc_porttyp tuple with an annc_apl of SVC_DA and an RLrt_fixedri tuple of ritype RT_OSPSDA.

DSU2-RAF-DTA, DSU2-RAF-COIN, and SAS port groups:
For each DSU2-RAF/SAS port group having the dial-through announcement capability, there may exist a tuple with a key value of 'grpnum' in this relation that corresponds to an RLfc_porttyp tuple with an annc_apl of SVC_ACCS and an RLrt_fixedri tuple of ritype

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RT_OSPS_ACCS. Also for each DSU2-RAF/SAS port group having the dial-through announcement capability, there may exist a tuple with a key value of 'grpnum' in this relation that corresponds to an RLfc_porttyp tuple with an annc_apl of SVC_ACSR and an RLrt_fixedri tuple of ritype RT_ACSR. If the corresponding RLfc_porttyp tuple has an annc_apl of SVC_COIN, there will exist an RLrt_fixedri tuple of RT_OSPSCOIN for the coin announcement capability. If the corresponding RLfc_porttyp tuple has an annc_apl of SVC_RAS for the dial-through announcement capability and there is a tuple in RLannc_apl with appl equal to SVC_RAS then there must exist a tuple in RLras_idp with a corresponding annc_ri and there is a tuple in RLannc_apl with appl equal to SVC_ACSR then there must exist a tuple in RLrt_fixedri with a ritype of RT_ACSR.

## RLrt_routing (for CCS transmission test call routing)

DESCRIPTION:

This relation must be populated with a route index associated with incoming transmission test calls on common channel signaling (CCS) trunks. This routing index corresponds to the fixed routing index TMICTC. This routing index is used to route the incoming CCS test call to the trunk group of logical test ports (TM_ICTC). The trunk group pointed to by this routing index should be the same trunk group used for incoming non-CCS trunk transmission test calls.

QUANTITY OF TUPLES:

One tuple per 5ESS(R)-2000 switch office equipped with CCS trunks.

TUPLE SEMANTICS:

```
route_x          - Value assigned by office.
route_type       - RTE_HUNT, RTE_TM
portgrp.grpnum   - Incoming transmission test call trunk group
                   (trunk group of logical test ports with
                   service class of TM_ICTC ).
portgrp.type     - TM_TRK.
nbr_del          - Zero.
pref             - Zero.
nbr_pref         - Zero.
sec_rte_x        - Zero.
sig_pro          - TRAD.
ani_ind          - DBNO.
ovlap_ind        - DBNO.
two_stage        - DBNO.
rt_descript      - RT_OTHER.
```

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RLrt_routing (For packet switching route index)

DESCRIPTION:

This relation must be populated for the route index associated with a packet switching trunk group assigned.

For the route index assigned to the internal protocol (IP) trunk group:

For a given route index, there must be a tuple in RLrt_routing, and RLpsri_psn such that, RLrt_routing.route_x = RLpsri_psn.route_x.

In addition, if the route index is associated with a registered private operating company (RPOA) (inter-exchange carrier) data network identification code (DNIC) then there should also be a tuple in the RLpsdnicri such that, RLrt_routing.route_x = RLpsri_psn.route_x = RLpsdnicri.route_x.

For the route index assigned to the X.75/X.75' trunk group:

For a given route index, there must be a tuple in RLrt_routing.

In addition, if the route index is associated with an RPOA (inter-exchange carrier) DNIC then there should also be a tuple in the RLpsdnicri such that, RLrt_routing.route_x = RLpsdnicri.route_x.

For a secondary route index assigned to a X.75/X.75' trunk group:

For a given secondary route index (sec_rte_x), there must be a tuple in RLrt_routing.

In addition, if the secondary route index is associated with an RPOA (inter-exchange carrier) DNIC then there should also be a tuple in the RLPSDNICRI relation such that, RLrt_routing.sec_rte_x = RLpsdnicri.route_x.

Multiple X.75' trunk groups per 5ESS(R)-2000 switch, including X.75' to X.75', can tandem trunk through a 5ESS(R)-2000 switch (with or without going through the IP subnetwork). This feature allows each 5ESS(R)-2000 switch to have multiple X.75' trunk groups to another sub-network (integrated services digital network [ISDN] or public packet switch network [PPSN]) within the local access and transport area (LATA) by configuring routing tables. PVCs can be provisioned on X.75' trunk members and alternate route indexes can be provisioned for both X.75 and X.75' trunk groups. The user must carefully provision PVCs on X.75 or X.75' trunk members with alternate routes because the PVCs will not alternate route. The 5ESS(R)-2000 switch

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will also be able to have multiple X.75 trunk groups connected to an inter-exchange carrier (IEC)/value added network (VAN) if the routing tables are correctly defined.

The user must provision the routing tables properly so that trunks with the previous Telcordia Technologies TR-301 Issue 2 and TR448 features do not route to another 5ESS(R)-2000 switch that is not operating on the 5E8 software release or to another vendor's ISDN switch which is not compatible with the previous TRs.

Call looping among the sub-networks in a Bell operating company (BOC) LATA is a situation that could arise either due to mis-provisioning of routing tables, or due to a combination of alternate routing and transit switching. It is the responsibility of the BOC to set up the routing tables in a way that minimizes the potential for looping.

QUANTITY OF TUPLES:

One tuple for each packet switching route index.

TUPLE SEMANTICS:

route_x - value assigned by office

route_type - RTE_HUNT. The members in the trunk group must be hunted to find the next available one. The hunt type = RTH_PSUCD must exist in RLrt_trkg. Since X.75/X.75' trunk groups are limited to 24 members and IP trunk groups are limited to 32 members, RLrt_trkg.htype must never equal RTH_PSLGUCD.

portgrp.grpnum - Trunk group number. There has to be a corresponding entry in RLRT_TRKG, RLPSTRUNKS and RLRCTGRPRK.

portgrp.type - TM_TRK.

nbr_del - Zero (default).

pref - Zero (default).

nbr_pref.digcnt - Zero (default).

sig_pro - TRAD.

ani_ind - DBNO.

ovlap_ind - DBNO.

rt_descript - RT_OTHER.

sec_rte_x - The secondary route index provides for an alternate path to the terminating switch.

For X.75/X.75' trunk groups (RLPSTRUNKS.trk_type equals X75 or X75P); sec_rte_x may be the value of a valid alternate route index pointing to either an IP, X.75 or X.75' trunk group. Refer to the usage section for the sec_rte_x attribute for more information.

For IP trunk groups (RLpstrunks.trk_type equals PCISXIP) the following rules apply:

1. In a given tuple, sec_rte_x does not equal route_x.

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2. sec_rte_x equals zero indicates no secondary route. This is the default value.
3. If sec_rte_x does not equal zero, then there exists another tuple in RLrt_routing with the key sec_rte_x.

**Attribute:**
route_x
**Fullname:**
Route index
**Attribute Description:**
Make up routing numbers to be associated with outgoing trunk group numbers.

**Attribute:**
route_type
**Fullname:**
Type of route
**Attribute Description:**
All trunks use enumeration RTE_HUNT.

Secondary routes for inter-module trunks may use the route type RTE_DNTRAN. If this route type is encountered, the directory number (DN) will be considered an intra-switch line terminating call (that is, the call will revert back to the DN translation state for line terminating calls) and will be completed across the Network Control and Timing (NCT) links if the DN terminates on the same host switch. The sec_rte_x of the tuple must be a valid noc for this office when the route type is RTE_DNTRAN. If there exist a RLrt_routi.p tuple with the sec_rte_x as the key then that tuple does not pertain to this route. If this secondary route type is encountered and the

DN does not terminate on the same host switch, the call will fail.

**Attribute:**
portgrp
**Fullname:**
Port group identifier
**Attribute Description:**
Port group identifier.

**Attribute:**
portgrp.grpnum
**Fullname:**
Outgoing trunk group number
**Attribute Description:**
The portgrp.grpnum attribute is a key to the RLrt_trkg relation.

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If the tuple from RLrt_trkg indicates that the trunk group is of 'type' = announcement, then the 'module' attribute in RLrt_trkg must be zero (that is, a globally controlled announcement). 'When the grpnum=0, no corresponding tuple is needed in the relation RLrt_trkg'. An extended digital subscriber line (EDSL) D-channel trunk group must not be assigned to a route index.

**Attribute:**
portgrp.grptype
**Fullname:**
Group type
**Attribute Description:**
Group port type.

**Attribute:**
nbr_del
**Fullname:**
Number of digits to delete
**Attribute Description:**
Once the call is routed to the appropriate trunk some digits (example: area code or office code) can be deleted. Allowing only information essentially needed for routing in destination office.

**Attribute:**
pref
**Fullname:**
Prefix digits
**Attribute Description:**
Prefix digits. Prefix the digits needed to route the call in distant office. For routes to an inter-LATA inter-exchange or international carrier, this field contains the 0ZZ/1NX code to be outpulsed to the access tandem. The 'pref' field may also contain 2ZZ (rt_routing.pref = 2ZZ where Z is 0-9) to indicate called number will be outpulsed as dialed to the access tandem when the secured special feature, optional seven digit outpulsing, is active on shared trunk groups (rt_routing.rt_descript = RT_STG) with exchange access (EA) signaling (rt_routing.sig_pro = EA). The 2ZZ will be converted to 0ZZ via software before it is outpulsed on the trunk. This field is not used for packet switch calls. For packet switch calls, the implied numbering plan area (NPA) is obtained either from the RLnmimpdgts relation or the office parameter GLpsinpa.

Route index set up to point to a revertive pulsing trunk group must have a 'pref' specified (zero for terminations to low-five side of office, or five for terminations to high-five side).

One of the many uses of this attribute is to store digit strings for equal access signaling. (e.g. 0ZZ, 1NX, or 1N'X). 0ZZ, 1NX, and 1N'X values are standardized across switches in the network.

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International operator traffic, characterized by a 1N'X value of 'pref', must not be routed on ISDN user part 7 (ISUP7) trunks but should be routed on EA multi-frequency (MF) trunks.

U.S. transport traffic, characterized in the end office switch by 1NX and a carrier ID other than 288, must be routed to an AT&T toll office switch on EA/MF trunks.

Equal access calls, using the international dialing sequence, and arriving at a toll office switch on an ISUP7 must be fully code addressed and routed on through the toll network using ISUP7 signaling.

**Attribute:**
nbr_pref
**Fullname:**
Number of digits prefixed
**Attribute Description:**
Number of digits prefixed.

**Attribute:**
sec_rte_x
**Fullname:**
Secondary route index
**Attribute Description:**
When routing index can be used to route the call to an empty trunk with similar destination. For announcement trunk groups, (where RLrt_trkg.type is equal to RTANNCMNT), the sec_rte_x must point to a tuple in RLrt_routing with a route type of RTE_ORDER.

The proportionate bidding (PB) feature adds a restriction to the secondary route index range. The PB feature is a secured feature. Its security feature identification number (SFID) is 34. The following rule for PB is valid only if that SFID is active:

> For all RLrt_routing tuples, the secondary route index attribute (sec_rte_x) cannot have a value in the range of the PB route index (1001 to 1032).

For general information regarding the PB feature rules, refer to rlPROPBID.p.

In an inter-module trunk call, the sec_rte_ri of the secondary route index must be the normalized office code (NOC) if the secondary route type is RTE_DNTRAN.

For special access trunk groups with a service class of FC_SPAB800 or FC_SPAM800, the sec_rte_x must be set to zero (reorder). For X.75/X.75' packet switching trunk groups this attribute may be used to provide an alternate route for destinations requiring X.75 or X.75' connections. The alternate route may be on the same

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5ESS(R)-2000 switch or another 5ESS(R)-2000 switch connected via an IP trunk group within the sub-network. For X.75 and X.75' trunk groups the value zero means 'no secondary route index assigned' and does not indicate reorder. Also, only one alternate route will be used by packet switching software (route index forms may appear to cascade from one route index to another but, as previously stated, the trunk hunting stops with this sec_rte_x route index value).

When the primary route is X.75', it must be possible to designate, on the routing tables, an alternate route which is either an X.75 trunk group, another X.75' trunk group or an IP trunk group.

Note: Although the routing tables may indicate that the alternate route for an X.75' trunk group primary route is an IP trunk group, it will not be possible operationally to alternate route a virtual call request received over an IP trunk and destined for that X.75' trunk group to the alternate IP trunk group.

When the primary route is X.75, it must be possible to designate, on the routing tables, an alternate route which is either an X.75' trunk group, another X.75 trunk group or an IP trunk group.

Note: Although the routing tables may indicate that the alternate route for an X.75 trunk group primary route is an IP trunk group, it will not be possible operationally to alternate route a virtual call request received over an IP trunk and destined for that X.75 trunk group to the alternate IP trunk group.

There is no switch requirement to match the operational/provisionable characteristics of the primary/alternate trunk groups. It is up to the service provider to decide which characteristics, if any, need to be the same between primary/alternate routes and designate them appropriately.

Note: Alternate routing on X.75 and X.75' trunk groups does not apply to PVCs. There are no rules enforcing this restriction. It is the responsibility of the user to correctly provision routing tables and associated PVC assignments.

**Attribute:**

sig_pro

**Fullname:**

Signaling protocol

**Attribute Description:**

The possible values are as follows:

TRAD - Traditional type of signaling.
EA - Exchange access signaling.
INC - International type of signaling.
FGB - Signaling to feature group B carriers. This value is

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only valid for route_type equal to RTE_HUNT.
MEA - Modified EA signaling for TAISP,
Exchange Access Operator Services System (EAOSS) signaling for EAOSS Special Feature when the lec_os is set to DBYES, or
Exchange Operator Services System (EOSS) signaling for EAOSS Special Feature when the lec_os is set to DBYES and no carrier is specified.
INCM - International MEA signaling for TAISP, or
Exchange Access Operator Services System (EAOSS) signaling for EAOSS Special Feature when the lec_os is set to DBYES.
PNANI - Automatic number identification (ANI) over PF secured feature.

Note: No internal data other than the `sig_pro` attribute is available to indicate if the far end Traffic Service Position System (TSPS) office is expecting TRAD or EA signaling. This must be verified with the TSPS office prior to definition of the signaling protocol for these trunks.

For traffic to a TSPS office which has not converted to the new OS signaling, use sig_pro equals TRAD. For traffic to a TSPS office which has converted to the new OS signaling, use sig_pro equals EA. Do not use INC or FGB for signaling to a TSPS office. The only exception is when the prefix is 4NX for TAISP signaling, then INC can be used to signal to the TSPS office.

If the sig_pro is MEA or INCM then the rt_descript must be RT_DTG or RT_STG and the servclass of the trunk must be FC_TSPS. Also, GLexinbnd must be DBYES to allow expanded inband signaling for sig_pro MEA and INCM.

If the sig_pro is MEA or INCM and the SFID 011 is activated, rctgrprk.intsig must be FCINBAND or FCEXINBND. This is the EAOSS Special Feature requirement.

If the sig_pro is MEA or INCM and the SFID 011 is not activated, rctgrprk.intsig must be FCEXINBND. This is the TAISP Feature requirement.

Note: The following supplemental information is not RC/ODA enforceable.

InterSM trunks cannot be used for equal access signaling. In other words, if sig_pro is not TRAD then the trunk served by this route index cannot be an interSM trunk.

When a sig_pro value of EA or INC is used to process an outgoing call, the digit analysis tables on the incoming side of the switch must have a consistent type_ci_call value. This value cannot be FCNONCI or FCCI_NULL (see RLdaprmfnl.type_ci_call and RLdaprlfnl.type_ci_call). Calls that violate this rule are killed by call processing.

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When sig_pro is EA, delete digits are ignored by the switch software and therefore should be set to zero to avoid confusion.

The combination of rt_descript equals RT_OTHER, sig_pro equals PNANI, and ani_ind equals DBYES is used only by the ANI over PF secured feature, which requires that secured feature ID 005 be set.

**Attribute:**
ckt_code
**Fullname:**
Circuit code
**Attribute Description:**
This attribute, contained in the network identification field of the transit network selection (TNS) parameter, maps an OZZ or a 1N/N'X to a four bit circuit code.

It is not recommended that a ckt_code value of zero be used when this route index is used on an ISUP7 trunk with a sig_pro value that is not TRAD.

For all cases when the tuple in RLrt_trkg, indexed by RLrt_routing.portgrp.grpnum, has out_sigtype equal to DBISUP7 and sig_pro is not TRAD, then the following consideration applies:

A four-bit value of 0000, in the circuit code bit subfield of the TNS parameter, is defined in the ISUP7 protocol specification to have a meaning of `unspecified'. Since all CCS7 parameter bit subfields have a default value of zero unless otherwise assigned, it is not recommended to use a four-bit 0000 code point as a meaningful value for ckt_code.

A 'ckt_code' value of 0001 must be used when 'pref' contains the 1NX (international call, no operator requested) standardized string.

A 'ckt_code' value of 0010 must be used when 'pref' contains the 1N'X (international call, operator requested) standardized string.'

**Attribute:**
ani_ind
**Fullname:**
ANI indicator
**Attribute Description:**
DBYES, if the ANI information should be outpulsed; DBNO, if the ANI information should not be outpulsed.

The combination of rt_descript = RT_OTHER, sig_pro = PNANI, and ani_ind = DBYES is used only by the ANI over PF secured feature, which requires that secured feature ID 005 be set.

The combination of lec_os = DBYES, sig_pro = MEA or INCM, rt_descript = RT_STG, and ani_ind = DBYES is required by EAOSS

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Special Feaure to provide EAOSS signaling, which requires that SFID 011 be activated.

**Attribute:**
ovlap_ind
**Fullname:**
Overlap indicator
**Attribute Description:**
DBYES if overlap outpulsing is allowed, DBNO, otherwise. This should be DBNO for revertive pulsing trunks.

This must be DBNO when the attribute portgrp.grpnum in this relation has a TSPS class of service (FC_TSPS) as indicated in RLrctgrprk.servclass, unless RLrt_routing.sig_pro is MEA or INCM.

This must be DBNO when the attribute portgrp.grpnum in this relation has a primary rate interface (PRI) class of service (FCEDSL, FCEDSLHM) as indicated in RLrctgrprk.servclass.

Overlap outpulsing is not allowed on ISUP7 or Common Channel Signaling System 6 (CCIS6) trunks. In other words, for all cases when the tuple in RLrt_trkg, indexed by a valid RLrt_routing.portgrp.grpnum (grpnum does not equal zero) has out_sigtype equal to DBISUP7 or DBCCIS6 then the following consideration applies:

RLrt_routing.ovlap_ind must be DBNO.

**Attribute:**
two_stage
**Fullname:**
Two-stage outpulsing flag
**Attribute Description:**
Not used by U.S. -- default to DBNO.

**Attribute:**
cpnsubsc
**Fullname:**
Calling party number subscription
**Attribute Description:**
This attribute indicates whether or not the inter-LATA/international carrier (IC/INC) subscribes to calling party number (CPN) parameter.

DBYES - The CPN parameter can be sent in the outgoing initial address message (IAM)
DBNO - Indicates it will not be sent in the IAM.

**Attribute:**

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rt_descript

**Fullname:**

Type of route

**Attribute Description:**

Chosen to indicate what type of route this tuple in RLrt_routing represents. If more than one value applies to the attribute, rt_descript, then the tuple should be duplicated, with a different RI for the key, with one tuple per relevant value of the rt_descript attribute. For example, if overflow on direct trunk groups to carriers, shared (tandem) trunk groups to access tandems (ATs), and BOC only trunk groups are all routing to the same announcement/tone, it is necessary to have a separate tuple for each case in order for measurements to work correctly. Note that the enumeration value RT_GEN_ANN should be used for routes to announcement or tone for which no more specific value applies.

**Attribute:**

ani_ii_digs

**Fullname:**

ANI II pairs

**Attribute Description:**

Two-digit information indicator associated with the route index of an outgoing call using EA signaling (EAMF or EA-ISUP7), EAOSS signaling, EOSS signaling, and MEA signaling. The route Index will identify the carrier used for the call.

The ANI information indicator is defined and administered by Telcordia Technologies.

The 'ani_ii_digs' associated with a call can be obtained from various places in the system. If it is obtained from RLrt_mcrt relation, it is associated with a service e.g., private facility access (PFA)/outward wide area telephone service (OUTWATS) or shared directory number (SDN) OUTWATS. If it is obtained from the RLflex_ani relation, it is associated with the class of service (COS) of the originating party. If it is obtained from the RLscridxpa relation, it is associated with a screening index of the originating party (The Flexible ANI Enhancement Secured Feature must be purchased and enabled, and the carrier must be allowed to send ANI II Digits).
If it is obtained from the RLrt_routing relation it identifies the carrier through its association with the route index.

The ani_ii_digs attribute associated with the MCRI (RLrt_mcrt) has the highest precedence, followed by RI (RLrt_routing), SCRIDX (RLscridxpa) and the COS (RLflex_ani).
The following diagram illustrates the precedence and the ani_ii_digs attribute to be outpulsed with the call:

| RLrt_mcrt | RLrt_routing | RLscridxpa | RLflex_ani |
|---|---|---|---|
| ani_ii_digs | ani_ii_digs | ani_ii_digits | ani_ii_digs |
| defined | N/A | N/A | N/A |

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| | | | |
|---|---|---|---|
| null | defined | N/A | N/A |
| null | null | defined | N/A |
| null | null | null | defined |

If the value of RLrt_mcrt.ani_ii_digs is FC_ANI_NULL, RLrt_routing.ani_ii_digs is FC_ANI_NULL, and RLscridxpa does not exist, then the ani_ii_digs will be derived from RLflex_ani and the value will be based on the COS of the originating party. Flexible ANI II feature is a secured feature and must be purchased to use. Flexible ANI Enhancements secured feature is depended on the Flexible ANI II secured feature.

**Attribute:**

csi_subsc

**Fullname:**

Carrier selection information (CSI) parameter subscription indicator

**Attribute Description:**

If the originating end office (OEO) determines that an inter-LATA exchange carrier (IXC) is required to complete the call, and if circuit selection results in the selection of a Common Channel Signaling System 7 (CCS7) outgoing circuit either directly to the IXC office or to an AT office, the OEO marks the circuit busy and formulates an IAM.

Prior to the originating end office sending an IAM, the carrier selection information subscription indicator will be read by the operational software to determine whether the CSI parameter should be transported to the IXC in the IAM message.

This attribute only applies when the associated outgoing trunk group uses ISUP7 signaling.

csi_subsc should be optioned to one of the values listed in the following on a per carrier route basis.

DBYES: Indicates that the CSI parameter should be passed to the IXC (subscribed).

DBNO: Indicates that the CSI parameter should not be passed to the IXC (not subscribed).

**Attribute:**

uui_subsc

**Fullname:**

User to user information (UUI) parameter subscription indicator

**Attribute Description:**

User to user information signaling transfer allows ISDN customers to exchange user data transparently through the network, in the UUI parameter of an ISUP message, during call setup and call clearing.

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Prior to sending an IAM message from an originating end office, the UUI parameter subscription indicator is checked by the operational software to determine if the UUI parameter should be passed to the far switch.

This attribute only applies when the associated outgoing trunk group uses ISUP7 signaling. The uui_subsc attribute should be optioned to one of the following values.

DBYES: Indicates that the UUI parameter should be included in the outgoing IAM (subscribed).

DBNO: Indicates that the UUI parameter should not be included in the outgoing IAM (not subscribed).

**Attribute:**
atp_subsc
**Fullname:**
Access transport parameter (ATP) subscription indicator
**Attribute Description:**
Q.931 information element transfer facilitates the transport of specific Q.931 information elements in the ISUP ATP transparently between exchanges in the network.

Prior to sending an IAM message from an originating end office, ATP subscription indicator will be checked by the operational software to determine whether the ATP parameter passed to the far switch.

This attribute only applies when the associated outgoing trunk group uses ISUP7 signaling.

The atp_subsc attribute should be optioned to one of the following values.

DBYES: Indicates that the ATP parameter should be included in the outgoing IAM (subscribed).

DBNO: Indicates that the ATP parameter should not be included in the outgoing IAM (not subscribed).

**Attribute:**
ffcf1
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

**Attribute:**
ffcf2

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**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

**Attribute:**
ffcf3
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

**Attribute:**
ffcf4
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

**Attribute:**
exp_cic
**Fullname:**
Expanded carrier identification code (CIC)
**Attribute Description:**
Used to indicate on EA trunks whether the expanded (four-digit) CIC should be used (DBYES). A value of DBNO on relevant trunks indicates that the three-digit CIC should be used. Trunks other than EA have this attribute set to DBNO.

**Attribute:**
lec_os
**Fullname:**
Operator services provided by LEC (LEC OS)
**Attribute Description:**
Used to indicate the operator services are provided by LEC (DBYES). A value of DBNO indicates the operator services are provided by IC. The following rules apply to this field:

1. The SFID 011 must be activated before setting this field to DBYES.
2. When the field is set to DBYES,
   a.) the signaling protocol must be MEA or INCM,
   b.) the route description type must be RT_STG,
   c.) the ANI indicator must be DBYES,
   d.) the servclass of the trunk must be FC_TSPS,
   e.) the out signal type must be DBMF.

When the SFID 011 is activated, the following signalings will be provided:

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| lec_os | sig_pro | rt_descript | SIGNALING PROVIDED |
|---|---|---|---|
| DBYES | INCM | STG | EAOSS |
| DBYES | MEA | STG | EAOSS |
| DBYES | MEA | STG | EOSS (no carrier specified) |
| DBNO | INCM | STG | MEA |
| DBNO | INCM | DTG | MEA |
| DBNO | MEA | STG | MEA |
| DBNO | MEA | DTG | MEA |

When the SFID 011 is not activated, only the following signalings will be provided:

| lec_os | sig_pro | rt_descript | SIGNALING PROVIDED |
|---|---|---|---|
| DBNO | INCM | STG | MEA |
| DBNO | INCM | DTG | MEA |
| DBNO | MEA | STG | MEA |
| DBNO | MEA | DTG | MEA |

EAOSS - Exchange Access Operator Services System Signaling
EOSS - Exchange Operator Services System Signaling
MEA - Modified EA signaling (AT&T terminology)

**Attribute:**
cicp_subsc
**Fullname:**
Carrier Identification Code Parameter (CICP) Subscription
**Attribute Description:**
Used to indicate on CCS7 trunks whether to send CICP parameter to IXC (Inter Exchange Carrier). A value of DBYES indicates that CICP should be allowed. DBNO indicates no CICP parameter should be sent.

1. The SFID 009 must be activated before setting this field to DBYES.
2. When the field is set to DBYES,
   a.) and signaling protocol is INC, then servclass must not be FC_IEC (IC).
   b.) and signaling protocol is not INC, then signaling protocol must be EA or MEA,
   c.) the out signal type must be DBISUP7.

**Attribute:**
rte_srchlmt
**Fullname:**
Route search limit
**Attribute Description:**
This attribute is Route search limit.
The route search limit determines how far along the route chain to search.

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**Attribute:**
tnsc
**Fullname:**
Terminating Network Selection Code
**Attribute Description:**
This attribute is Terminating Network Selection Code

**Attribute:**
tdr
**Fullname:**
Time Dependent Routing
**Attribute Description:**
This attribute denotes if Time Dependent Routing pertains to this route index. Even though tdr is set to DBYES, Time Dependent Routing (TDR) is not active unless SFID 251 is also turned on. The TDR SFID 251 is controlled by call processing, not by data.

**Attribute:**
trignum
**Fullname:**
final route trigger number
**Attribute Description:**
This attribute is a trigger number that causes an SCP query to be initiated on the final route in the list. Although, several RI triggers may be encountered during the call, only one SCP query will be invoked, and only on the final route in either RLrt_routing, or in RLrtlist. The trigger number can be set on RC View 10.2, or on RC View 10.25, after it is defined on RC View 9.35 with protocol R0D1 (ASP0.1 on RC View), and application ASP, and SFID 290 (Final Route Trigger) is unlocked on RC View 8.22.

```
/*********************************************************/
/* The trignum attribute is reserved for future use by the */
/* Final Route Trigger feature, 99-5E-4187.A which is not  */
/* currently available.                                    */
/*********************************************************/
```

**Attribute:**
rtlist_key
**Fullname:**
route list key indicator
**Attribute Description:**
This attribute indicates if a corresponding route list tuple is populated in the RLrtlist relation. For the rtlist_key attribute to be set to DBYES, a corresponding tuple with the same RI must be populated in the RLrtlist relation, and SFID289 (LDP Route List) must be unlocked.

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**Attribute:**
rel_link_type
**Fullname:**
release link type
**Attribute Description:**
Indicates which protocol will be used for Release Link processing.

**Attribute:**
eon_sup_cn
**Fullname:**
End Office Nodal ISUP Charge Number Suppression Indicator
**Attribute Description:**
This attribute, when assigned a value of DBYES, indicates that the Charge_Number will be suppressed and that the office originating line information (OLI), Glofc_oli, will be used to populate the OLI in the outgoing IAM message for ISUP calls which have been identified as EOLN2 calls.

SFID 515 must be unlocked before assigning a value of DBYES to eon_sup_cn. SFID 515 is dependent upon SFID 126.

**Defines:**
"db/DMtnsc.h"

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# RT_SCRNING

## 1. Description

Screening Data Tables

The tree diagram Figure 1 depicts the stored structure of virtual relation RT_SCRNING.

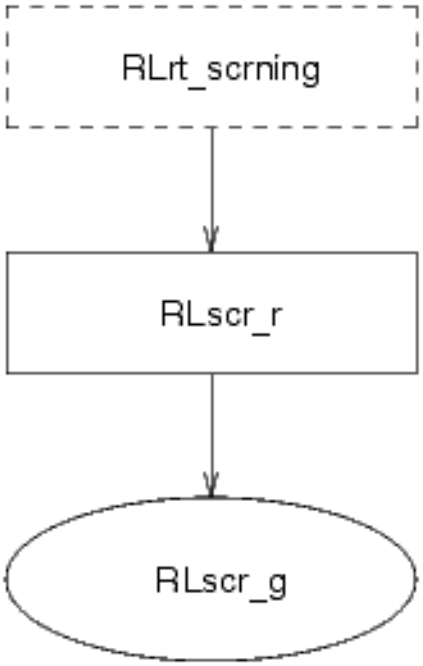


**Figure 1 Virtual Relation RT_SCRNING**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
RT_SCRNING  relid = 61    DBSTATIC   DBACC_OPV   DBNOTODD  FR      NULL
     charge_x    DMCHGIDX     (ushort: 11)
 (a) route_type  DMROUTE      (enum: 4)
 (b) rev_bat     DMBOOL       (enum: 1)
     ffcf5       DMUNS8       (ushort: 8)
 (c) conf_type   DMCONFLICT   (enum: 3)
 (d) carr_block  DMBOOL       (enum: 1)
 (e) inter_restrict  DMBOOL       (enum: 1)
 (f) ffcf1       DMBOOL       (enum: 1)
 (g) ffcf2       DMBOOL       (enum: 1)
 (h) ffcf3       DMBOOL       (enum: 1)
     ffcf6       DMUNS16      (ushort)
     route_x     DMRTEIDX     (ushort: 14)
     cst         DMCST        (enum: 2)
     screen_x    DMSCRNIDX    (ushort: 12)     <--- key
```

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```
(i) prefix      DMPREFIX     (enum: 3)     <--- key
(j) ffcf4       DMBOOL       (enum: 1)
    dest_x      DMDESTIDX    (ushort: 12)     <--- key
        User, Compacted and Stored Tuple Layout RT_SCRNING
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                       |       | |               |     | | | | | |
 0 |       charge_x        |   a   |b|     ffcf5     |  c  |d|e|f|g|h|
   |---------------+---------------+---------------+---------------|
   |                               |                             |   |
 4 |             ffcf6             |          route_x            |cst|
   |---------------+---------------+---------------+---------------|
   |                         |     | |                       |       |
 8 |        screen_x         |  i  |j|         dest_x        |*******|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population Rules for RLrt_scrning

**Relation Description**
Screening Data Table

This relation associates the key values of screen index, dialed prefix (0+, 1+ or NONE), and the destination index (also known as code index) to what is known as rate and route data.

The screen index comes from line or trunk data, 'who you are' and the prefix and destination indices come from digit analysis, 'what you dialed'. These three sub-keys together yield (rate and route) or 'where you go' and 'what you pay' information. That is, knowing who you are and what you dialed, the central office can set up this relation to determine how you pay (rate or charge index) and where you terminate (route index [RI]). This relation also yields other rerouting information. For example, if a long distance call is dialed without a 1+ prefix, the following announcement may be heard, "Please dial 1 then the area code..." This is due to the screening relation. With the occurrence of the screen index and the digits dialed, a NONE prefix (is issued?) (which?) yields a route index leading to the pre-set announcement.

This relation is populated by recent change/verify (RC/V) view 10.10

**Attribute: screen_x**

**Fullname:** Screening index

**Attribute Description** Screening index associated with the line or trunk which originated this call. This is one of the three sub-keys to the relation.

The global parameter GL_OSO is set to 'DBYES' indicates that the *5ESS*®-2000 switch office is a toll office. For each trunk group handling incoming originating screening office OSO-inward wide area telephone service (INWATS) calls (which require inter-LATA database (IDB) query, the screening index allocated to this trunk should be duplicated to a screening index with a value equal to the initial screening index plus 100. Screening index of '100+ initial screening index' is used after digit analysis of the plain old telephone service (POTS) number returned from IDB. This will differentiate a POTS OSO call from a non OSO POTS call, and will preserve the identity of the incoming OSO call.

Example: - An 800 call originating in screening index 3 (home local access and transport area [LATA]) is sent to an IDB and then returned to the *5ESS* ®-2000 switch in

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screening index 103. It is now known where the call originated (3) and, if the call terminates in the same LATA it is routed to the local exchange carrier (LEC) haul back trunk group. If the POTS number returned from the IDB is for a served LATA it is routed to the AT&T access group.

**Attribute: prefix**

**Fullname:** Prefix digits dialed - 1+, 0+ or NONE

**Attribute Description** The term 'prefix' indicates the digits '1', '0' (or none) that may be dialed in front of the directory number. Prefix is one of the three sub-keys to the relation. For each combination of screen index and destination index values populated in this relation, there can be one to three values of prefixes. These indicate how the call should be processed in case each of those dialed prefixes: 0+, 1+ or no prefix. The prefix dialed is determined by digit analysis.

**Attribute: dest_x**

**Fullname:** Screening Destination Index (DI) or Code Index (CDI)

**Attribute Description** This is one of the three sub-keys to the relation. Destination index, which is termed 'CODE INDEX' or 'CDI' in the recent change/verify (RC/V) views, indicates the TYPE or CLASSIFICATION of the digit string dialed. A central office can have several types of digit strings - (such as, all strings that start with 979, digits for inter office calls, digits for intra office calls etc.).

These sets of strings are to be grouped to be given same or similar route treatment. Such grouping is accomplished by giving the same destination index to a set of all such strings. A destination index is supplied by digit analysis for each set of dialed digits.

By setting up the digit analysis tables appropriately, different destination indices can be assigned for various sets of digits.

This gives the central office the ability to identify a set of dialed digits no matter who dialed those digits, or where they originated. This information is used in this relation, in combination with other sub-keys to yield 'rate' and 'route' information.

**Attribute: route_type**

**Fullname:** Screening Route Type

**Attribute Description** Indicates the type of route used to process this call. One of the route types listed is associated with this compound key value (SI+CDI+PREFIX). Each allowed route type and its meaning are shown:

```
RTE_HUNT:   Route this call to a hunted trunk.
RTE_DNTRAN: Route this call to a line after directory number
            (DN) translation.
RTE_ATDN:   Route this call to the attendant of the (BRCS)
            terminal group.
RTE_PRIME:  Route this call using the route index or NOC
            (Normalized Office Code) obtained from
            digit analysis
RTE_MC:     This is a private facility (PF) or automatic
            route selection (ARS) call.  Route
            the call using RLRT_MCRT.
```

**Attribute: route_x**

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**Fullname:** Route Index or Normalized Office Code (NOC) Value

**Attribute Description** The value in this attribute is either the route index or an NOC. IF the value is a route index, the call is routed to an appropriate trunk populated in RLRT_ROUTING. If the value is a NOC, it is routed to a line. The value of attribute route_x is interpreted depending on the value of the route_type attribute. The allowed values and the meaning of route_x attribute depending on the route_type are as follows:

| route_type | route index value |
|---|---|
| RTE_ATDN | Zero (use RI from digit analysis). |
| RTE_DNTRAN | This is a NOC, range: 1-AVNOCMAX(). |
| RTE_HUNT | This is a route index, range: 1-AVRIMAX(). |
| RTE_PRIME | Zero (use RI from digit analysis). |
| RTE_MC | This is an modular feature customization (MC) route index, range: 1-AVRIMAX(). |

**Attribute: cst**

**Fullname:** Screening Class of Service Tone

**Attribute Description** Class of service tone. This is the tone returned to the originator when a call is to be failed due to screening.

**Attribute: rev_bat**

**Fullname:** Screening Reverse Battery Indicator

**Attribute Description** Reverse battery indicator. Use DBYES for private branch exchange (PBX) toll diversion trunk and DBNO for all others.

**Attribute: charge_x**

**Fullname:** RT Screening Charge Index

**Attribute Description** Charge index. Type of charging applied to call. Taken from CHRGIDXEXP relation, attribute 'charge_x'. The valid range of this attribute is 0 - 2047.

**Attribute: carr_block**

**Fullname:** Screening Carrier Block

**Attribute Description** Set to DBYES if when doing carrier-independent screening on calls to inter-LATA carriers, the calls should be routed/blocked according to this screening tuple (assuming it was reached while doing carrier-independent screening - that is, screening with the digit analysis DI rather than the carrier DI) and access a new one using the carrier-specific DI.

--------Should be set to DBYES on all screening tuples used to implement blocking due to:

- toll/code restriction/diversion
- WATS band screening
- 1+ required announcement
- '0+7D not allowed' announcement
- etc.

Should be set to DBNO on screening tuples that are just used to pick a normal RI or NOC that will result in successful routing.

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**Attribute: inter_restrict**

**Fullname:** RT Screening Inter-restrict

**Attribute Description** If DBYES, indicates the originating line is restricted from making sent-paid calls to the selected carrier. The default is DBNO.

**Attribute: conf_type**

**Fullname:** Conflict Type

**Attribute Description** The TYPE CI CALL selected for conflict resolution for all conflict cases between intra-LATA local, intra-LATA toll, and inter-LATA calls.

**Attribute: ffcf1**

**Fullname:** Boolean reserved for future field feature.

**Attribute Description** See fullname description.

**Attribute: ffcf2**

**Fullname:** Boolean reserved for future field feature.

**Attribute Description** See fullname description.

**Attribute: ffcf3**

**Fullname:** Boolean reserved for future field feature.

**Attribute Description** See fullname description.

**Attribute: ffcf4**

**Fullname:** Boolean reserved for future field feature.

**Attribute Description** See fullname description.

**Attribute: ffcf5**

**Fullname:** Unsigned 8 bits reserved for future field feature.

**Attribute Description** See fullname description.

**Attribute: ffcf6**

**Fullname:** Unsigned 16 bits reserved for future field feature.

**Attribute Description** See fullname description.

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# RT_SFG

## 1. Description

This relation contains the simulated facility group information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 300 |
| expected number of tuples | 300 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |
| l1 length of subkey1 | 11 |
| p1 position of subkey1 | 5 |
| trigger function | DBrt_trkg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ignore bits | 0-4 |
| ks key store | AUTO |

## 3. Field Layout

```
RT_SFG      relid = 530   DBSTATIC   DBACC_CIND  DBPRAM    LPFG    GCRTG


     grpnum       DMGRPNUM     (ushort)  <--- key, not stored
     size         DMCOUNT      (ushort)
     warnthresh   DMUSHORT     (ushort)
     qfid         DMMCC_FID    (ushort)
     mdr_grp      DMFACID      (ushort)
     sfg_rti      DMRTEIDX     (ushort: 14)
 (a) swab         DMBOOL       (enum: 1)
 (b) q_alwd       DMBOOL       (enum: 1)
     sfg_si       DMSCRNIDX    (ushort: 12)
     rou_q        DMQTYPE      (enum: 3)
 (c) isdntgbwl    DMBOOL       (enum: 1)
     qmodule      DMMODULE     (ushort: 8)
     rqsize       DMUNS8       (ushort: 8)
     pqsize       DMUNS8       (ushort: 8)
     line_das     DMDA_TREE    (ushort: 7)
 (d) sfgbl        DMBOOL       (enum: 1)
     trk_das      DMDA_TREE    (ushort: 7)
 (e) sfgmkby      DMBOOL       (enum: 1)
     sfg_type     DMSFGTYPE    (enum: 6)
 (f) post_q_treat  DMPOSTQ      (enum: 2)
     hunt_type    DMHNTTYPE    (enum: 5)
 (g) pri_q        DMBOOL       (enum: 1)
 (h) enq_act      DMBOOL       (enum: 1)
 (i) ffcf1        DMBOOL       (enum: 1)
 (j) ffcf2        DMBOOL       (enum: 1)
 (k) ffcf3        DMBOOL       (enum: 1)
 (l) ffcf4        DMBOOL       (enum: 1)
 (m) ffcf5        DMBOOL       (enum: 1)
```

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```
(n) mdract      DMBOOL       (enum: 1)
    owbillnum   DMDN         (struct)  <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
           User Tuple Layout    RT_SFG
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             grpnum            |*******************************|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |              size             |           warnthresh          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |              qfid             |            mdr_grp            |
   |---------------+---------------+---------------+---------------|
   |                           | | |                       |     | |
12 |          sfg_rti          |a|b|         sfg_si        |rou_q|c|
   |---------------+---------------+---------------+---------------|
   |               |               |               |             | |
16 |    qmodule    |     rqsize    |     pqsize    |   line_das  |d|
   |---------------+---------------+---------------+---------------|
   |             | |           |   |         | | | | | | | | |     |
20 |   trk_das   |e|  sfg_type | f |hunt_type|g|h|i|j|k|l|m|n|*****|
   |===============+========== owbillnum ==========+===============|
   |       |       |                                               |
24 | digcnt|*******|                      dn                       |
   | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
28 |                               dn                              |
   | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
32 |                               dn                              |
   | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
36 |                               dn                              |
   |===============+===============+===============+===============|
     ( 40 bytes )


    grpnum      DMGRPNUM     (ushort)  <--- key, not stored
    size        DMCOUNT      (ushort)
    warnthresh  DMUSHORT     (ushort)
    qfid        DMMCC_FID    (ushort)
    mdr_grp     DMFACID      (ushort)
    sfg_rti     DMRTEIDX     (ushort: 14)
(a) swab        DMBOOL       (enum: 1)
(b) q_alwd      DMBOOL       (enum: 1)
    sfg_si      DMSCRNIDX    (ushort: 12)
    rou_q       DMQTYPE      (enum: 3)
(c) isdntgbwl   DMBOOL       (enum: 1)
    qmodule     DMMODULE     (ushort: 8)
    rqsize      DMUNS8       (ushort: 8)
```

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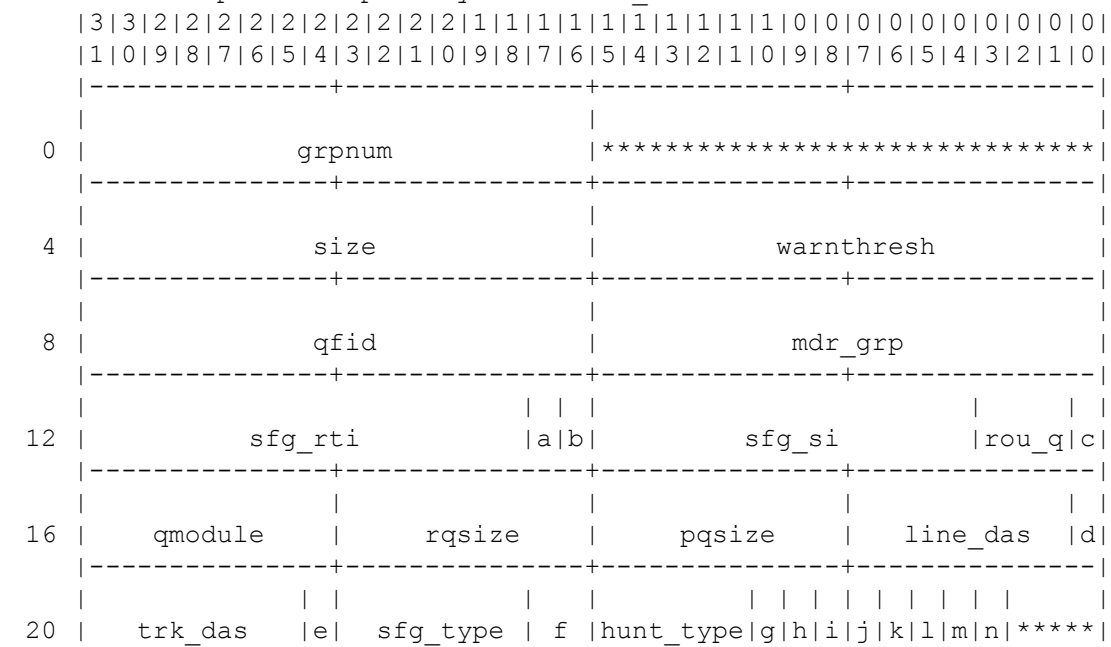
```
    pqsize      DMUNS8       (ushort: 8)
    line_das    DMDA_TREE    (ushort: 7)
(d) sfgbl       DMBOOL       (enum: 1)
    trk_das     DMDA_TREE    (ushort: 7)
(e) sfgmkby     DMBOOL       (enum: 1)
    sfg_type    DMSFGTYPE    (enum: 6)
(f) post_q_treat  DMPOSTQ      (enum: 2)
    hunt_type   DMHNTTYPE    (enum: 5)
(g) pri_q       DMBOOL       (enum: 1)
(h) enq_act     DMBOOL       (enum: 1)
(i) ffcf1       DMBOOL       (enum: 1)
(j) ffcf2       DMBOOL       (enum: 1)
(k) ffcf3       DMBOOL       (enum: 1)
(l) ffcf4       DMBOOL       (enum: 1)
(m) ffcf5       DMBOOL       (enum: 1)
(n) mdract      DMBOOL       (enum: 1)
    owbillnum   DMCDN        (struct)  <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
```

Compacted Tuple Layout RT_SFG

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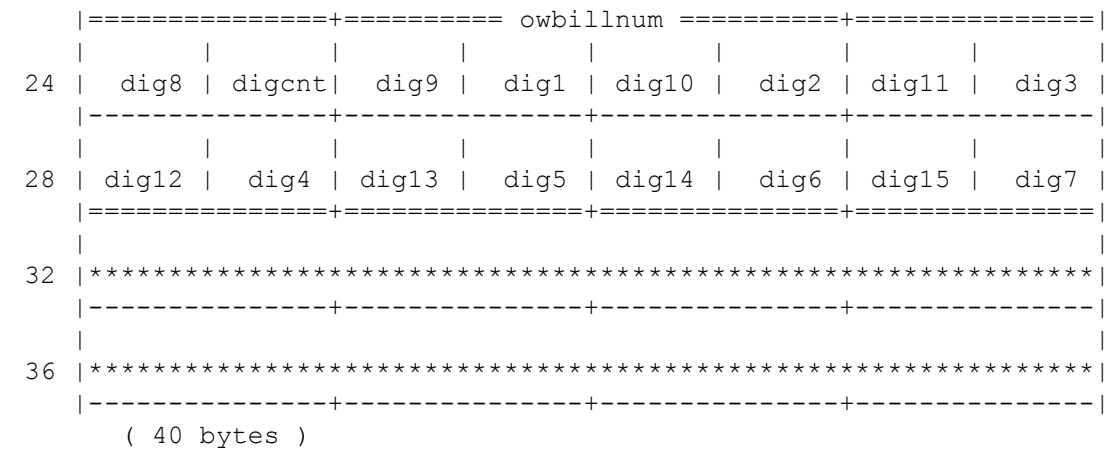


```
    size         DMCOUNT      (ushort)
    warnthresh   DMUSHORT     (ushort)
    qfid         DMMCC_FID    (ushort)
    mdr_grp      DMFACID      (ushort)
    sfg_rti      DMRTEIDX     (ushort: 14)
(a) swab         DMBOOL       (enum: 1)
(b) q_alwd       DMBOOL       (enum: 1)
    sfg_si       DMSCRNIDX    (ushort: 12)
    rou_q        DMQTYPE      (enum: 3)
(c) isdntgbwl    DMBOOL       (enum: 1)
    qmodule      DMMODULE     (ushort: 8)
    rqsize       DMUNS8       (ushort: 8)
    pqsize       DMUNS8       (ushort: 8)
    line_das     DMDA_TREE    (ushort: 7)
(d) sfgbl        DMBOOL       (enum: 1)
    trk_das      DMDA_TREE    (ushort: 7)
(e) sfgmkby      DMBOOL       (enum: 1)
    sfg_type     DMSFGTYPE    (enum: 6)
(f) post_q_treat  DMPOSTQ      (enum: 2)
    hunt_type    DMHNTTYPE    (enum: 5)
(g) pri_q        DMBOOL       (enum: 1)
(h) enq_act      DMBOOL       (enum: 1)
(i) ffcf1        DMBOOL       (enum: 1)
(j) ffcf2        DMBOOL       (enum: 1)
(k) ffcf3        DMBOOL       (enum: 1)
(l) ffcf4        DMBOOL       (enum: 1)
(m) ffcf5        DMBOOL       (enum: 1)
(n) mdract       DMBOOL       (enum: 1)
    owbillnum    DMCDN        (struct)  <--- compacted
        dig8         DMUNS4       (ushort: 4)
        digcnt       DMDIGCNT     (uchar: 4)
        dig9         DMUNS4       (ushort: 4)
        dig1         DMUNS4       (ushort: 4)
        dig10        DMUNS4       (ushort: 4)
        dig2         DMUNS4       (ushort: 4)
        dig11        DMUNS4       (ushort: 4)
        dig3         DMUNS4       (ushort: 4)
        dig12        DMUNS4       (ushort: 4)
```

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```
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
          Stored Tuple Layout   RT_SFG
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |              size             |           warnthresh          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |              qfid             |            mdr_grp            |
   |---------------+---------------+---------------+---------------|
   |                             | | |                       |     | |
 8 |          sfg_rti            |a|b|         sfg_si        |rou_q|c|
   |---------------+---------------+---------------+---------------|
   |               |               |               |               | |
12 |    qmodule    |     rqsize    |     pqsize    |   line_das  |d|
   |---------------+---------------+---------------+---------------|
   |             | |           |   |         | | | | | | | | |     |
16 |   trk_das   |e|  sfg_type | f |hunt_type|g|h|i|j|k|l|m|n|*****|
   |===============+========== owbillnum ==========+===============|
   |       |       |       |       |       |       |       |       |
20 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
24 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
   |===============+===============+===============+===============|
      ( 28 bytes )
```

## 4. Population rules for RLrt_sfg

### Relation Description

```
        Simulated Facility Group routing

         Simulated facility group information
```

**Attribute:**

```
        grpnum
```

**Fullname:**

```
        Group number.
```

**Attribute Description:**

```
        Indicates the group number of this sfg.

        If size is in the range of 97-1984,
        then the grpnum must be 1-500 and
        the hunt_type must be RTH_LGSFG.

        If size is in the range of 1-96 or is 9999,
```

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then the grpnum may be 1-AVSFGRPS() and
the hunt_type must be RTH_SFG.

The sfg_num (grpnum) must not be duplicated from the
number used in RLicr. that is,
RLicr.sfg_num != RLrt_sfg.grpnum

**Attribute:**
size
**Fullname:**
Size.
**Attribute Description:**
If the size is less than or equal to 1984,
then the size is the maximum number of calls
which may use this SFG simultaneously.

If the size is equal to 9999, then there is
no limit on the number of simultaneous calls
which may use this SFG.

**Attribute:**
owbillnum
**Fullname:**
Wats billing number.
**Attribute Description:**
OUTWATS, INWATS, TINWATS, HM, SCOCS, EON, MEGACOM(R) or private
CCSA network billing number.
Used for accounting purposes.
IF swab == DBNO
rlRT_SFG.owbillbum = NULL
ELSE
rlRT_SFG.owbillnum cannot be NULL

**Attribute:**
owbillnum.digcnt
**Fullname:**
digit count.
**Attribute Description:**
Digit count.

**Attribute:**
owbillnum.dn
**Fullname:**
Directory number.
**Attribute Description:**
Directory number.

**Attribute:**

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warnthresh

**Fullname:**

Threshold warning lamp.

**Attribute Description:**

The customer-selected ISDN Attendant Simulated Facility Group (SFG) Warning Lamp Threshold.

When, and only when, the number of idle Simulated Facilities of an SFG is less than or equal to this value, the warning lamp will be lit. This is true even if warnthresh equals or exceeds the size of the group.

**Attribute:**

sfg_si

**Fullname:**

Simulated Facility Group (SFG) screening index.

**Attribute Description:**

Screening index to be used in OESSX (sfg_type = SFGOUTESSX), 2WESSX (sfg_type = SFG2WESSX), OUTWATS (sfg_type = SFGOUTWATS), Hotel/Motel (sfg_type=SFGHM), Selective Class of Call Screening service (sfg_type = SFGSCOCS), EOLN (sfg_type = SFGEON), SDN (sfg_type = SFGSDN), MEGACOM(R) (sfg_type = SFGMEGACOM) and originating EDSL POTS (sfg_type = SFGEDSL, used for OPOTS service, see RLedslgprt.P). This si is passed in the MGrt_fail message back to the originating terminal process and is placed in the route request sent back to RTA.

If = 0 then sfg_type cannot equal SFGOUTWATS, SFGHM, SFGSCOCS, SFGM800, SFGMEGACOM.
If !=0 then sfg_type must equal SFGOUTWATS, SFGOUTWATS, or SFGOUTESSX, or SFG2WESSX or SFGEDSL SFGHM, SFGSCOCS, SFGEON, SFGEDSL, SFGSDN, SFGM800, or SFGMEGACOM and a tuple must exist in RLrt_scrning with sfg_si as one of the keys.

**Attribute:**

hunt_type

**Fullname:**

Hunt type

**Attribute Description:**

Indicates the type of hunting

**Attribute:**

sfg_type

**Fullname:**

SFG type

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**Attribute Description:**

Indicates the type of sfg.

An SFG (grpnum) may be used by EDSL. For Trunk INWATS (TINWATS), sfg_type = SFGINWATS. For OUTWATS, sfg_type = SFGOUTWATS. For basic service (POTS originating, POTS terminating), sfg_type = SFGEDSL.
For Software Defined Network, sfg_type = SFGSDN.
For MEGACOM(R) 800 service, sfg_type = SFGM800.
For MEGACOM(R) service, sfg_type = SFGMEGACOM.
For Enhanced 911 line originations sfg_type = SFGE911LNE and for Enhanced 911 trunk originations sfg_type = SFGE911TRK.
For nsftypes OFX & OTIE the corresponding SFG type is SFGOUTFX & SFGOUTTIE
For nsftypes TFX & TTIE the corresponding SFG type is SFGINFX & SFGINTIE
The SFG types SFG2WFX & SFG2WTIE can be used by all 4 nsftypes.
For CENTREX Network Overflow SFG, sfg_type = SFGCNSOVFL.
For Hotel/Motel service sfg_type = SFGHM.
For Selective Class of Call Screening service sfg_type = SFGSCOCS.
For EOLN sfg_type = SFGEON.
For International 800 service, sfg_type = SFGI800.
For MultiQuest (DIAL-IT NOVA) service, sfg_type = SFGMULTIQUEST.

**Attribute:**

sfgbl

**Fullname:**

SFG busy lamp.

**Attribute Description:**

Indicates if an sfg busy lamp is associated with this sfg (DBYES) or not (DBNO).

IF DBYES verify existence of tuple in RLrt_tgbl such that
key rlRT_TGBL.grpnum = rlRT_SFG.grpnum
rlRT_TGBL.pftype = PFSFG

**Attribute:**

sfgmkby

**Fullname:**

SFG make busy.

**Attribute Description:**

Indicates if sfg make busy (a private facility feature capability) is provided for this sfg (DBYES) or not (DBNO).

If DBYES verify if tuple exists such that:
key rlHUNTKEYS.port = any valid port,
rlHUNTKEYS.huntkey_type = FCSFGMKBUSY,
rlHUNTKEYS.portgrp.grpnum = rlRT_SFG.grpnum
or
a tuple exists in rlISSCCOF such that

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```
        rlISSCCOF.pftype = PFSFG,
        rlISSCCOF.grpnum = rlRT_TRKG.grpnum
```

**Attribute:**
        isdntgbwl
**Fullname:**
        ISDN trunk group busy lamp.
**Attribute Description:**
        Indicates if an ISDN trunk group busy lamp and a
        possible a trunk group warning lamp is associated
        with this sfg (DBYES) or not (DBNO).

        IF DBYES verify existence of tuple in RLtgtoatt
        such that
        key rlTGTOATT.grpnum = rlRT_SFG.grpnum
        rlTGTOATT.pftype = PFSFG
        Note: the SFG might have nothing to do with ISDN
        but it can be monitored via the ISDN
        attendant console lamps. In fact it could
        also be monitored by an analog TGBL as previously
        seen.

**Attribute:**
        swab
**Fullname:**
        Standard WATS billing.
**Attribute Description:**
        Standard WATS or private billing indicator. Set to DBYES
        when calls are to be billed to a standard
        billing number, otherwise DBNO.

        If rlRT_SFG.owbillnum == NULL
        swab = DBNO
        ELSE
        swab = DBYES.

**Attribute:**
        q_alwd
**Fullname:**
        Queuing allowed.
**Attribute Description:**
        queuing allowed on this group?

        If q_alwd id DBYES, then qfid must contain
        a valid queuing feature with modular feature type MFQU,
        and a tuple in RLfacname with RLfacname.facid = qfid
        and RLfacname.subclass = SCL_FEAT. Also if
        q_alwd is DBYES then sfg_type must be SFGOUTWATS.
        If pri_spl_dly sets to DBYES, then RLqu_pri tuple
        must exist in queuing sm where RLrt_sfg.grpnum equals

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RLqu_pri.portgrp.grpnum and RLqu_pri.portgrp.grptype
euqals TM_QSFG.
If it is OFFHOOK queue and spl_dlytreat or pri_spl_dly
set to DBYES, then RLqu_dly tuple must exist in queuing sm
where RLrt_sfg.grpnum equals RLqu_dly.portgrp.grpnum and
RLqu_dly.portgrp.grptype equals TM_QSFG.
If it is RGBK queue and pri_spl_dly set to DBYES, then
RLqu_dly tuple must exit where RLrt_sfg.grpnum equals
RLqu_dly.portgrp.grpnum and RLqu_dly.portgrp.grptype
equals TM_QSFG.

**Attribute:**
qmodule
**Fullname:**
Queuing module
**Attribute Description:**
module on which this group's queue resides

verify qmodule exists in RLmodatt.mod
If q_alwd is DBYES then qmodule must be > 0.

If qmodule changes from one SM to another, then tuple changes
may be needed in RLms_qan.sm_id and .gp_id if measurements are
enabled for the RLrt_sfg.grpnum.

**Attribute:**
rqsize
**Fullname:**
Routine queue size.
**Attribute Description:**
default parameter routine queue size

Dependencies:
All (qu_ogtos.rqsize + qu_ogtos.pqsize +qu_os.qbsize +
qu_os.qexsize) attributes in tuples already assigned to
this particular SM must be <= 255 (SM) or <= 4000
(SM-2000).

Note: This check is being implemented in RLqu_os
and RLqu_ogtos.

**Attribute:**
pqsize
**Fullname:**
Priority queue size.
**Attribute Description:**
default parameter priority queue size

See rules for rqsize.
Note: this check is being implemented in RLqu_os

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and RLqu_ogtos

**Attribute:**
rou_q
**Fullname:**
Routine section
**Attribute Description:**
Routine section type.

**Attribute:**
pri_q
**Fullname:**
Priority section.
**Attribute Description:**
does this queue have a priority section

If pri_q is DBYES then pqsize must be >0
and q_alwd must be DBYES.

**Attribute:**
enq_act
**Fullname:**
Enqueuing active.
**Attribute Description:**
enqueuing active
(Note: this attribute is for
an interface to the Facilities Management Capability)

**Attribute:**
ffcf1
**Fullname:**
Future feature entry.
**Attribute Description:**
Future feature entry.

**Attribute:**
ffcf2
**Fullname:**
Future feature entry.
**Attribute Description:**
Future feature entry.

**Attribute:**
ffcf3
**Fullname:**
Future feature entry.
**Attribute Description:**

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Future feature entry.

**Attribute:**
ffcf4
**Fullname:**
Future feature entry.
**Attribute Description:**
Future feature entry.

**Attribute:**
ffcf5
**Fullname:**
Future feature entry.
**Attribute Description:**
Future feature entry.

**Attribute:**
line_das
**Fullname:**
Line Digit Analysis Selector.
**Attribute Description:**
New line das
Range of values: 0 - 99

Dependencies: if RLrt_sfg.line_das > 0
then RLda_digstrt.digtree must be defined and
RLrt_sfg.sfg_type must be SFGOUTWATS or SFGEON.

**Attribute:**
trk_das
**Fullname:**
Trunk Digit Analysis Selector.
**Attribute Description:**
New trunk das
Range of values: 0 - 99

Dependencies: if RLrt_sfg.trk_das > 0
then RLda_digstrt.digtree must be defined and
RLrt_sfg.sfg_type must be SFGOUTWATS or SFGEON.

**Attribute:**
post_q_treat
**Fullname:**
post queue treatment.
**Attribute Description:**
post queue treatment (ARS-D,MQII)
When a call overflows a Modular Queue and is not queued
for given the facility, the call will be re-routed only

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if the call is an ARS-D call and QR_ALTR is specified, or
else the call is given reorder tone and disconnected.

When qfid > 0 QR_NULL is not allowed

**Attribute:**
qfid
**Fullname:**
Queuing feature Id.
**Attribute Description:**
queuing feature id
Range of values: 0, or top 6 bits = MFQU,
bottom 10 bits must be 1 - 1023

a tuple in RLfacname with
RLfacname.facid = qfid and RLfacname.subclass = SCL_FEAT
If qfid > 0 then q_alwd must be DBYES. If qfid > 0 then
RLqu_tcfdf.grptyp must be TM_QSFG where RLQU_TCFDF is
keyed by qfid.

**Attribute:**
mdr_grp
**Fullname:**
Message Detail Recording Group
**Attribute Description:**
Indicates the MDR group associated with this SFG.
The type of SFG allowed is OUTWATS.
If populated, the MDR group must be defined in RLmdr_gp.
A PFA/ARS call that using OUTWATS SFG produces MDR
record that specified in the MDR_GP.

**Attribute:**
mdract
**Fullname:**
Message Detail Recording Activation Indicator
**Attribute Description:**
Indicates if MDR is active for this SFG.
If active the mdr_grp attribute must also
populated

**Attribute:**
sfg_rti
**Fullname:**
The routing index associated with a SFG group
**Attribute Description:**
This route index is associated with a SFG group,
and will be used to route calls from a PRI trunk
to FX or Tie Trunk, in this case the route index
must be greater than zero for all other cases the

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route index should be zero.

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# RT_SPECRI

## 1. Description

This relation contains the DNs associated with route indices.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |
| head table size | 1024 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| ks key store | DBNO |

## 3. Field Layout

```
RT_SPECRI   relid = 62    DBSTATIC   DBACC_CIND  DBPRAM    LPFG    GCRTG
     dn           DMLOCDN      (struct)     <--- key, not stored, compacted
         noc          DMNOC        (ushort: 14)
         digits       DMLOCDIG     (array [ 4 ] of char )
     ri           DMRTEIDX     (ushort: 14)
     ci           DMUNL11      (ulong: 11)
     tstcode      DMTCTSC      (enum: 6)
            User Tuple Layout     RT_SPECRI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+=============  dn =============+===============|
    |   |                           |                               |
  0 |***|            noc            |             digits            |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  4 |             digits            |*******************************|
    |===============+===============+===============+===============|
    |                             |                     |           | |
  8 |             ri              |          ci         |  tstcode  |*|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
     dn           DMKLOCDN     (struct)     <--- key, not stored, compacted
         noc          DMNOC        (ushort: 14)
         index        DMUNS14      (ushort: 14)
     ri           DMRTEIDX     (ushort: 14)
     ci           DMUNL11      (ulong: 11)
     tstcode      DMTCTSC      (enum: 6)
          Compacted Tuple Layout  RT_SPECRI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+=============  dn =============+===============|
    |   |                           |                           |   |
  0 |***|            noc            |           index           |***|
    |===============+===============+===============+===============|
```

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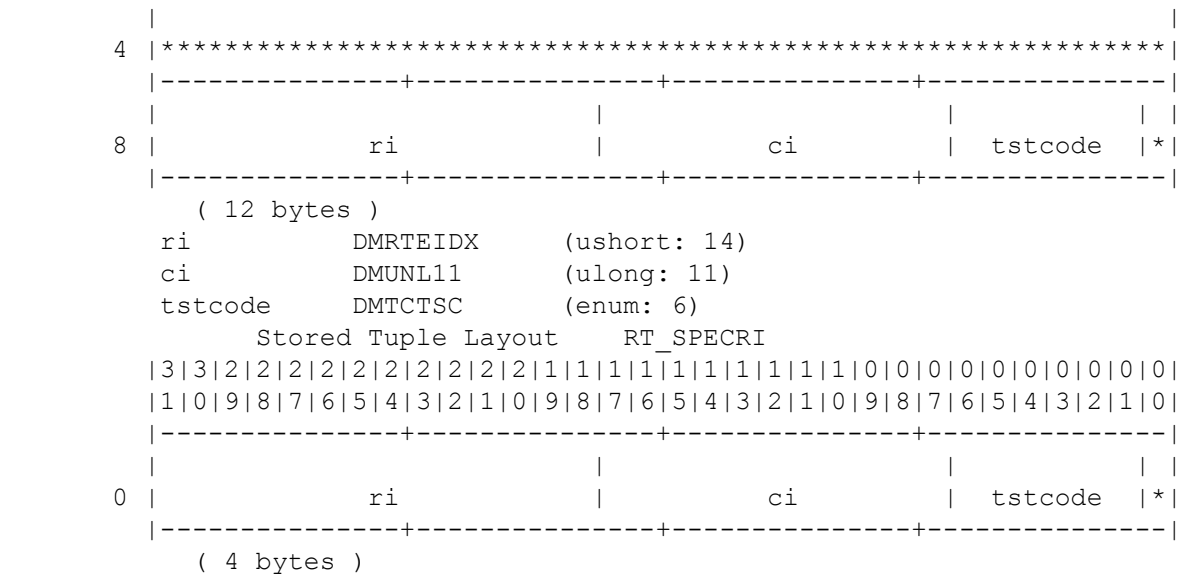


## 4. Population Rules for RLrt_specri

**Relation Description**
DNs associated with route indices for terminal maintenance testing.

DNs associated with route indices for terminal maintenance testing.

RLrt_specri (Loopback Test Type Routing)DESCRIPTION:

Trunks use dialed digits to attempt to connect to an Integrated Services Test Function (ISTF) transmission test which provides a near end loopback. The type of loopback (inverted or non-inverted) which they request is identified in the RLrt_specri.tstcode attribute. From there the associated route index is used to get a trunk group and eventually hunt through the members to find the next available ISTF loopback Logical Test Port (LTP). The tstcode attribute is passed along in the routing, therefore separate route indexes are not required for different tstcodes. This means that one route index can serve the LTP type loopback even though there are 2 flavors of loopback. The route index is associated with a trunk group which has a servclass of TM_ISTFLB.

BRIs use dialed digits to perform a non-inverting loop-back which is performed locally at the TSI instead of the ISTF. The test code for BRI access is TCICNINVISTF. For BRI access the RI is ignored. If a dialed code is intended only for BRI access, the RI is allowed to be 0. If a dialed code is intended for both BRI and trunk access then the RI must be non-zero (to identify the ISTF for trunk access).

As a point of clarification, BELLCORE has specified that the term 'non-inverting loopback' and '108 Test Line' are equivalent and may be used interchangeably.

There exists a corresponding tuple to the RLrt_specri tuple in RLrt_dntran relation which uses the same noc and digits.

If RI is populated before the tuple can be inserted, the ICP must be set to 'N'.

QUANTITY OF TUPLES: One tuple for each ISTF loopback tstcode, but the ri should be the same for all tuples. Exception: for TCICNINVISTF tstcode the ri may be zero (if non-zero, ri should be the same for all tuples).

TUPLE SEMANTICS:

dn.noc - - normalized office code for directory number

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dn.digits - - last four digits of terminal maintenance directory number

ri - - route index used to access trunk group. This should be the same for all ISTF loopback tstcodes unless an ri of 0 is populated. 0 may be populated when a dial code is only intended for BRI access to the 108 test line.

ci - - 0 (default)

tstcode - - test code which identifies the type of loopback requested (inverted=TCICINVISTF or non-inverted=TCICNINVISTF).

**Attribute: dn**

**Fullname:** directory number

**Attribute Description** Directory number.

**Attribute: dn.noc**

**Fullname:** DN's normalize office code

**Attribute Description** Normalized office code for directory number.

**Attribute: dn.digits**

**Fullname:** DN's last 4 digits

**Attribute Description** Last four digits of terminal maintenance directory number.

**Attribute: ri**

**Fullname:** route index

**Attribute Description** Route index used to access trunk group. This should be the same for all ISTF loopback tstcodes.

**Attribute: ci**

**Fullname:** charge index

**Attribute Description** Charge index.

**Attribute: tstcode**

**Fullname:** test code

**Attribute Description** Type of testing associated with directory number.

A tstcode of TCIC106 is only allowed if the global office parameter Gldsnopt = DBYES.

TCBRITL - - basic rate interface dial up test line.

TCBBRITL - - billed basic rate interface dial up test line. For tstcode equal to TCBRITL or TCBBRITL, ri must equal 0.

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# RT_TG

## 1. Description

This relation associates a Modular Feature Customization (MFC) capability terminal group with its associated data in the AM and on each of the SMs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150 |
| expected tuples in relation | 3 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| application | GCRTG |
| relation type | DBSTATIC |
| density | 10 |

## 3. Field Layout

```
RT_TG       relid = 522   DBSTATIC   DBACC_HASH  DBPRAM    LPFR    GCRTG

     tgid         DMUNS16      (ushort)  <--- key
     mbg_id       DMUNS16      (ushort)
     parktime     DMUSHORT     (ushort)
     attpktime    DMUSHORT     (ushort)
     sdndas       DMDA_TREE    (ushort: 7)
 (a) src_bill     DMBOOL       (enum: 1)
 (b) atnd_dntr    DMDIGCNT     (uchar: 4)
 (c) cnigi        DMCNIGI      (enum: 2)
 (d) ctxid        DMCTXID      (enum: 2)
 (e) ffcf1        DMBOOL       (enum: 1)
 (f) ffcf2        DMBOOL       (enum: 1)
 (g) ffcf3        DMBOOL       (enum: 1)
 (h) ffcf4        DMBOOL       (enum: 1)
 (i) cns          DMBOOL       (enum: 1)
 (j) pp_display   DMBOOL       (enum: 1)
 (k) nosofthold   DMBOOL       (enum: 1)
 (l) ported       DMBOOL       (enum: 1)
 (m) ovr_dny_xfer  DMBOOL        (enum: 1)
     moh_src      DMGPORT      (struct)
         member       DMPORT       (ushort)
         module       DMMODULE     (ushort: 8)
     atnd_dn      DMLOCDN      (struct)  <--- compacted
         noc          DMNOC        (ushort: 14)
         digits       DMLOCDIG     (array [ 4 ] of char )
            User Tuple Layout     RT_TG
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |               tgid            |             mbg_id            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             parktime          |           attpktime           |
    |---------------+---------------+---------------+---------------|
```

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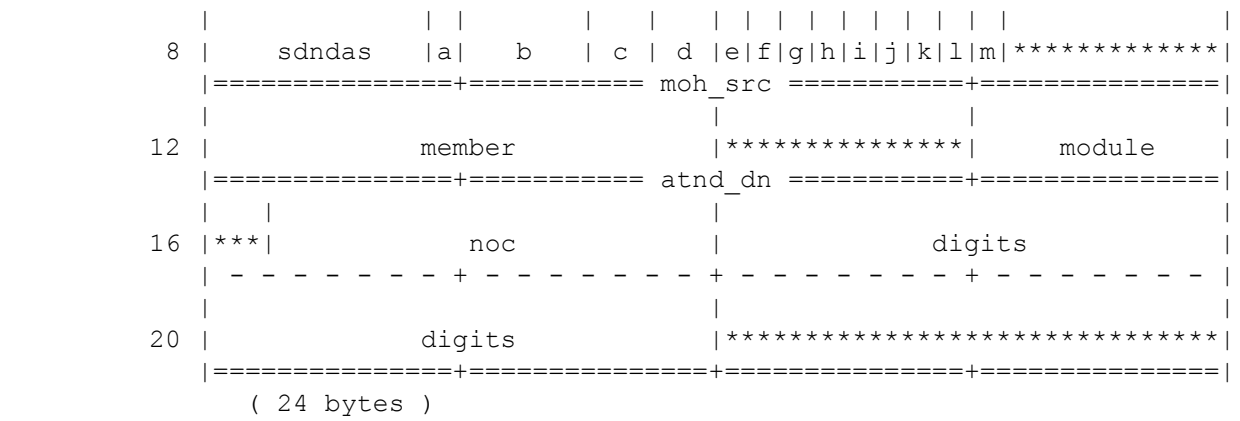
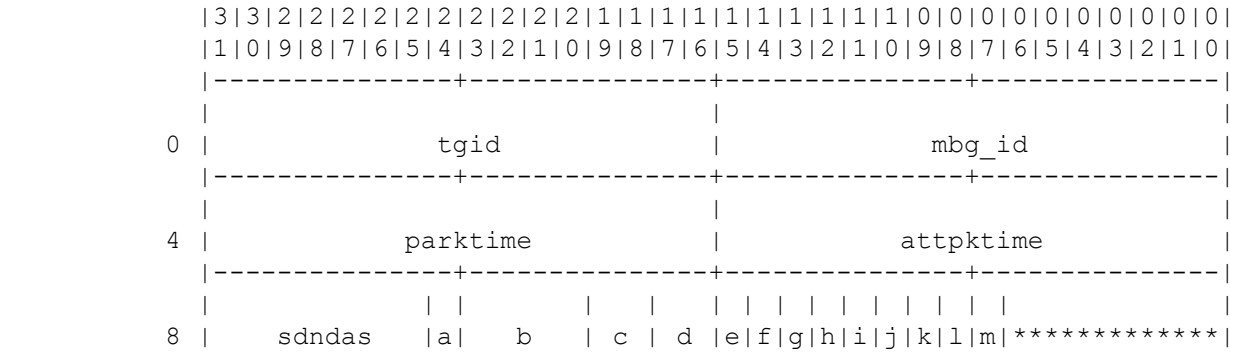
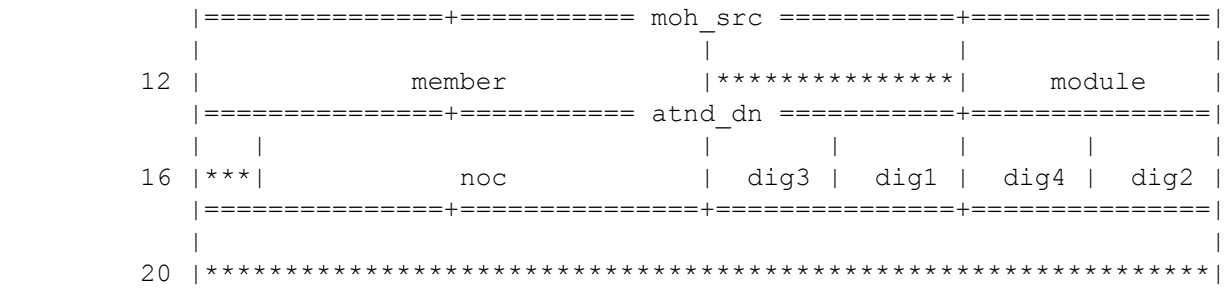
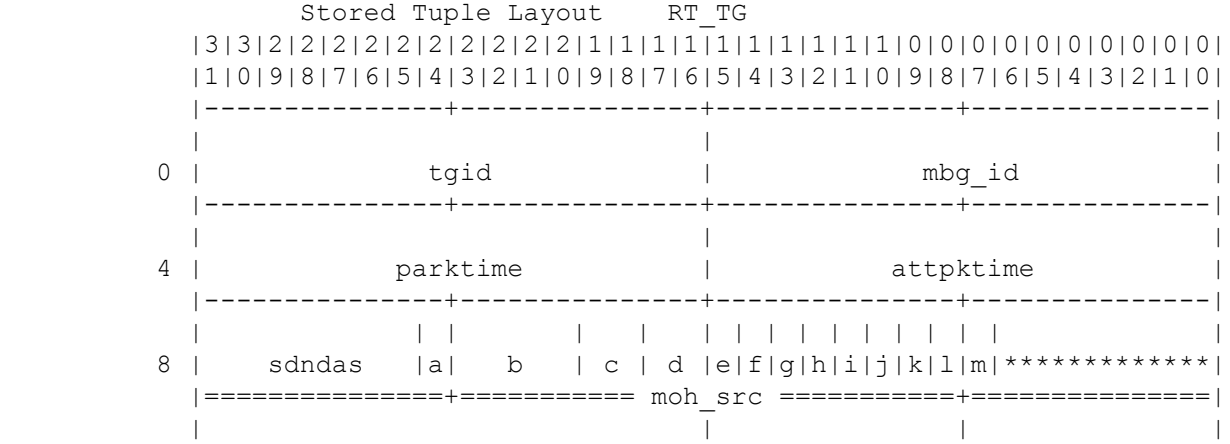



```
    tgid        DMUNS16      (ushort)  <--- key
    mbg_id      DMUNS16      (ushort)
    parktime    DMUSHORT     (ushort)
    attpktime   DMUSHORT     (ushort)
    sdndas      DMDA_TREE    (ushort: 7)
(a) src_bill    DMBOOL       (enum: 1)
(b) atnd_dntr   DMDIGCNT     (uchar: 4)
(c) cnigi       DMCNIGI      (enum: 2)
(d) ctxid       DMCTXID      (enum: 2)
(e) ffcf1       DMBOOL       (enum: 1)
(f) ffcf2       DMBOOL       (enum: 1)
(g) ffcf3       DMBOOL       (enum: 1)
(h) ffcf4       DMBOOL       (enum: 1)
(i) cns         DMBOOL       (enum: 1)
(j) pp_display  DMBOOL       (enum: 1)
(k) nosofthold  DMBOOL       (enum: 1)
(l) ported      DMBOOL       (enum: 1)
(m) ovr_dny_xfer  DMBOOL       (enum: 1)
    moh_src     DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    atnd_dn     DMCLOCDN     (struct)  <--- compacted
        noc         DMNOC        (ushort: 14)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
```






```
    tgid        DMUNS16      (ushort)  <--- key
    mbg_id      DMUNS16      (ushort)
    parktime    DMUSHORT     (ushort)
    attpktime   DMUSHORT     (ushort)
    sdndas      DMDA_TREE    (ushort: 7)
(a) src_bill    DMBOOL       (enum: 1)
(b) atnd_dntr   DMDIGCNT     (uchar: 4)
(c) cnigi       DMCNIGI      (enum: 2)
(d) ctxid       DMCTXID      (enum: 2)
(e) ffcf1       DMBOOL       (enum: 1)
(f) ffcf2       DMBOOL       (enum: 1)
(g) ffcf3       DMBOOL       (enum: 1)
(h) ffcf4       DMBOOL       (enum: 1)
(i) cns         DMBOOL       (enum: 1)
(j) pp_display  DMBOOL       (enum: 1)
(k) nosofthold  DMBOOL       (enum: 1)
(l) ported      DMBOOL       (enum: 1)
(m) ovr_dny_xfer  DMBOOL       (enum: 1)
    moh_src     DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    atnd_dn     DMCLOCDN     (struct)  <--- compacted
        noc         DMNOC        (ushort: 14)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
```

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```
 12 |              member             |***************|     module    |
    |===============+=========== atnd_dn ===========+===============|
    |   |                             |       |       |       |       |
 16 |***|            noc              |  dig3 |  dig1 |  dig4 |  dig2 |
    |===============+===============+===============+===============|
       ( 20 bytes )
```

## 4. Population rules for RLrt_tg

### Relation Description

Routing and terminal group relation

Associates a modular feature customization (MFC) capability terminal group with its associated data in the administrative module (AM) and in each switching module (SM).

A tuple in this relation should only exist if at least one of the non-key attributes is not required to be defaulted.

**Attribute:**

tgid

**Fullname:**

Identification of this modular feature customization terminal group

**Attribute Description:**

Terminal group ID of the lines (not the attendant's TGID) that get toll diverted or have manual line service or get re-routed to the attendant directory number (DN).

**Attribute:**

src_bill

**Fullname:**

Source billing

**Attribute Description:**

Flag to indicate if the source billing for attendant handled calls (SBAC) feature is activated for this terminal group.

If the attendant and the originating party are members of the same terminal group and src_bill is set to DBYES, then the attendant's billing DN will be replaced by the originating party's DN on all calls extended by the attendant that result in billing records.

Four types of source parties are allowed: centrex lines, centrex satellite tie trunks, foreign exchange (FX) trunks and regular tie trunks.

This condition is enforced by call processing and not by recent change/verify (RC/V) or ODA.

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**Attribute:**
mbg_id
**Fullname:**
Multiswitch Business Group (MBG) IDentifier.
**Attribute Description:**
mbg_id is an identifier used to describe a Multiswitch Business Group (MBG) that has Multiswitch Business Group Elements (MBGE) in 1 or more switches.
This is a unique number in the network with a range of {0,2-65535}. The value 1 is "Reserved for Public Network Identifier" (such as, non-MBG identification.

```
/* RULE about RLrt_tg.mbg_id */
/* rt_tg.mbg_id should be 0 unless the */
/* CENTREX Network (CN) CN_SFID #181 is on */
```

**Attribute:**
cns
**Fullname:**
CENTREX Network government Secure
**Attribute Description:**
cns is an indicator showing subscription to the CENTREX Network government Secure Feature.

```
/* RULE about RLrt_tg.cns */
/* RLrt_tg.cns must be DBNO unless the */
/* CENTREX Network for Government Secure (CNS)
/* CNS_SFID #183 is on */
```

**Attribute:**
pp_display
**Fullname:**
precedence preemption only display
**Attribute Description:**
pp_display designates if the PP display is to be used for all calls that terminate to any ISAT terminals that are members of this terminal group and have the PP feature assigned.

The value of pp_display only has effect if the PP feature is assigned to the ISAT terminal.
If pp_display = DBYES, then all calls terminating to ISAT are displayed with PP format.

1) All non-PP calls are displayed with "1=N" in the precedence subfield of the display.
2) NO Terminal Group restrictions are shown.

If pp_display = DBNO, then only PP calls terminating to ISAT are displayed using the PP ISAT display format.

1) PP calls do NOT show Terminal Group restrictions.
2) All PP calls are off-net. There can not be an on-net PP call. PP calls cannot be MBG calls.

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3) MBG calls will show Group restrictions and be displayed as if no PP feature had been assigned to the ISAT terminal.
4) non-PP off-net calls will NOT show Terminal Group restrictions.

This can be summarized in the following diagram:

| PP call | pp_ disply | t grp restr shown | fmt DSN |
|---|---|---|---|
| Note 1 | Y | N | Y |
| Y | N | N | Y |
| N | N | Note 2 | N |

Note 1: For pp_display=Y, the format is determined independent of the type of call being handled.

Note 2: Terminal group restrictions are shown for MBG calls. For non-MBG calls, no terminal group restrictions will be shown, but the rest of the TGSR format will be used.

**Attribute:**

sdndas

**Fullname:**

Software defined network (SDN) digit analysis selector.

**Attribute Description:**

This attribute specifies the digit analysis selector (DAS) that will be used for SDN originations from analog or basic rate interface (BRI) lines. The SDN DAS is used in call processing to define the digit analysis tables that will be used to analyze the digits for an SDN dialing plan. This attribute is used for SDN originations of the format (SDN dial code or SDN feature button) + (SDN directory number), where the dial code or feature button is defined with an action of ACN_SDNUSE. The SDN directory number is interpreted by this attribute. This attribute is not used to route SDN calls via automatic route selection (ARS).

SDN calls are routed with the code index and route index from standard digit analysis (such as local digital interpreter [LDIT], table rate and route [RAR], international direct distance dialing [IDDD]) and are not overwritten by the code index and route index obtained from the carrier (such as inter=LATA carrier form [ICF], carrier destination mapping form [CDIM]). For example, the code index is obtained from RLDAPRMFNL.dest and the route index is obtained from RLDAPRMFNL.route_x or RLRT_SCRNING.route_x. The carrier is identified in the same manner as basic interexchange carrier calls, such as obtaining the carrier via the presubscribed interexchange carrier (PIC) parameter assigned to the directory number. When defining digits to interpret in LDIT, the call type (such as RLDAPRMFNL.desttype) must be FCNORMAL and cannot be FCSDNACCESS.

CDIM - Carrier destination mapping form.

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ICF - Inter-LATA carrier feature form.
IDDD - International direct distance dialing form.
LDIT - Local digit interpreter table form.
RAR - Rate and route form, screening.

Dependencies:
1. If sdndas is not zero, then there must be a tuple in RLrc_das with the sdndas value.
2. The LDIT of this DAS must exist on all SMs where the terminal group exists. The distribution of the LDIT will be verfied when the terminal group is assigned to the directory number (DN) and this attribute (sdndas) is not zero for the terminal group that is being assigned. The distribution of the LDIT can not be checked when assigning this attribute (sdndas).
3. The RLrc_ldit packet switching flag (psflag) must be set to DBNO.

**Attribute:**
moh_src
**Fullname:**
Music on hold music source
**Attribute Description:**
This is the local or global music source trunk port for use with music on hold.

The music source trunk port cannot be specified unless the music on hold special feature (SFID 064 is set) has been purchased by the office.

**Attribute:**
moh_src.member
**Fullname:**
Trunk port name used for music source
**Attribute Description:**
Attribute moh_src.member is the trunk port name of the music port for music on hold.

If moh_src.member is not equal to GLNULPORT, then the Music On Hold special feature ID must indicate that the feature has been purchased for the office.

**Attribute:**
moh_src.module
**Fullname:**
Music on hold source switching module
**Attribute Description:**
Attribute moh_src.module is the SM of the trunk of the music source for music on hold.

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**Attribute:**
parktime
**Fullname:**
Call park time
**Attribute Description:**
Call park timer, defines how long to hold a parked call before attempting ringback. Can be from 0 to 360 seconds in 30 second increments. The default for the field is zero seconds. A value of zero indicates no ringback timing is to be applied.

**Attribute:**
attpktime
**Fullname:**
Attendant call park time
**Attribute Description:**
Call park timer, defines how long to hold a call parked against an attendant before attempting ringback. Can be from 0 to 360 seconds in 30 second increments. The default for the field is zero seconds. A value of zero indicates no ringback timing is to be applied.

**Attribute:**
ffcf1
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
Boolean reserved for future field feature

**Attribute:**
ffcf2
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
Boolean reserved for future field feature

**Attribute:**
ffcf3
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
Boolean reserved for future field feature

**Attribute:**
ffcf4
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description

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**Attribute:**
nosofthold
**Fullname:**
Prohibit music on hold for soft hold
**Attribute Description:**
Prohibit music on hold for soft hold indicates whether music on hold is prohibited for a custom ISDN user during a soft hold request. A default of DBNO indicates music should be provided to the soft held party.

Prohibit music on hold for soft hold cannot be DBYES unless the Music On Hold Special Feature (SFID 064 is set) has been purchased by the office.

**Attribute:**
cnigi
**Fullname:**
Calling number identification service delivery option. Intra-Group Only.
**Attribute Description:**
The cnigi field indicates whether members of the terminal group have restrictions on delivery of calling party number and forwarding number information, as provided by the CNIS, CPN/BND, RN Delivery, CgPS Delivery and ICLID features. Based on the cnigi field, these may be restricted to intra-group calls only. CNIGI is NOT a separate assignable feature. The CNIGI field may be overridden on a per line or per trunk basis, by setting the CNIGI field to a value other than NULL.

The possible settings of Intra-group CNIS option are:

FCNULLCNIGI- Default. Consult the Glcnigi Office Parameter.

FCNRSTCNIGI- No Restrictions apply to Display/deliver CPN or RN information on all calls.

FCIGOCNIGI - Display/deliver CPN or RN information only on intra-group calls.

**Attribute:**
atnd_dn
**Fullname:**
DN of attendant.
**Attribute Description:**
zero indicates no attendant DN exists.

**Attribute:**

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atnd_dn.noc

**Fullname:**

Normalized office code (NOC)

**Attribute Description:**

zero indicates no attendant DN exist

**Attribute:**

atnd_dn.digits

**Fullname:**

Digit string

**Attribute Description:**

An array of four extended digits.
NULL indicates no attendant DN for this group

**Attribute:**

atnd_dntr

**Fullname:**

unused attribute

**Attribute Description:**

unused attribute - defaulted to zero

**Attribute:**

ported

**Fullname:**

ported indicator

**Attribute Description:**

This attribute indicates if the terminal group associated with this tuple is ported by the Number Portability feature. The group ported indicator takes precedence over the individual ported indicator. The indicator that will be used (either the individual or the group ported indicator) will be determined by call processing.

**Attribute:**

ovr_dny_xfer

**Fullname:**

Override Deny Transfer

**Attribute Description:**

This attribute indicates that any transfer denials provisioned by the Deny Transfer of Digit Screened Calls feature will be overridden and thus allow the transfer for all lines in this terminal group. If this attribute is set to DBYES, all transfers on lines in this terminal group are allowed regardless of whether the digit strings are marked as "denied" or not.

**Attribute:**

ctxid

**Fullname:**

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Context Identifier

**Attribute Description:**

This attribute indicates if the terminal group associated with this tuple is unbundled or resold. A terminal group is unbundled if ctxid = CTXID_UNBNLD; it is resold if ctxid = CTXID_RESOLD.

**Defines:**

"db/DMport.h"

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# RT_TGBL

## 1. Description

This relation associates a simulated facility or a trunk group with its metallic service unit port of the busy lamp (TGBL).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| expected tuples in relation | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| application | GCRTG |
| relation type | DBSTATIC |

## 3. Field Layout

```
RT_TGBL     relid = 535   DBSTATIC   DBACC_HASH  DBPRAM    LPFR    GCRTG


    grpnum      DMGRPNUM     (ushort)  <--- key
 (a) pftype     DMPFTYPE     (enum: 1) <--- key
    tgbl_port   DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
        User, Compacted and Stored Tuple Layout    RT_TGBL
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 | |                           |
 0 |             grpnum              |a|***************************|
   |===============+========== tgbl_port ==========+===============|
   |                                 |               |               |
 4 |             member              |***************|     module    |
   |===============+===============+===============+===============|
      ( 8 bytes )
```

## 4. Population rules for RLrt_tgbl

**Relation Description**

associates a simulated facility or a trunk group with its metallic service unit port of the busy lamp (tgbl)

N/A

**Attribute:**

grpnum

**Fullname:**

trunk group id

**Attribute Description:**

Indicates the group number of this sfg or physical trunk group.

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```
        IF pftype = PFSFG Verify existence of tuple in
        RLrt_sfg such that:
        key rlRT_SFG.grpnum = rlRT_TGBL.grpnum
        rlRT_SFG.sfgbl   = DBYES.

        IF pftype = PFPHYS Verify existence of tuple in
        RLrt_trkg such that:
        key rlRT_TRKG.grpnum = rlRT_TGBL.grpnum
        rlRT_TRKG.tgbl   = DBYES.
```

**Attribute:**
pftype
**Fullname:**
indicates if this facility is a simulated facility group or a physical trunk group
**Attribute Description:**
Indicates if this facility is a simulated facility groupF (PFSFG) or a physical trunk group (PFPHYS).

**Attribute:**
tgbl_port
**Fullname:**
id of metallic service unit port of the tgbl
**Attribute Description:**

```
        Verify existence of tuple in RLfc_porttyp
        such that:
        key rlFC_PORTTYP.port      = tgbl_port
        rlFC_PORTTYP.servclass = FC_PFLAMP

        Verify that tgbl_port.member is not equal
        to the RLicr.port AND tgbl_port.module is
        not equal to the RLicr.sm in any of the
        RLicr tuples.
```

**Attribute:**
tgbl_port.member
**Fullname:**
port name of a port
**Attribute Description:**
indicates the port name

**Attribute:**
tgbl_port.module
**Fullname:**
SM number
**Attribute Description:**
The IM number that this port terminates on

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**Defines:**

```
"db/DMport.h"
```

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# RT_TGID

## 1. Description

This relation associates a Modular Feature Customization (MFC) capability terminal group with its associated data in the AM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 65535 |
| expected tuples in relation | 14 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |

## 3. Field Layout

```
RT_TGID     relid = 573   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    GCRTG


    tgid        DMUNS16      (ushort)  <--- key
    sfg_6port   DMGRPNUM     (ushort)
    mc_ri       DMRTEIDX     (ushort: 14)
 (a) orig_sfg    DMBOOL       (enum: 1)
 (b) term_sfg    DMBOOL       (enum: 1)
    term_mcri   DMRTEIDX     (ushort: 14)
 (c) ffcf1       DMBOOL       (enum: 1)
 (d) ffcf2       DMBOOL       (enum: 1)
    ccsa_termri  DMRTEIDX     (ushort: 14)
 (e) ffcf3       DMBOOL       (enum: 1)
    ccsa_origri  DMRTEIDX     (ushort: 14)
    sdn_mcri    DMRTEIDX     (ushort: 14)
    eon_mcri    DMRTEIDX     (ushort: 14)
        User, Compacted and Stored Tuple Layout    RT_TGID
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |              tgid             |           sfg_6port           |
   |---------------+---------------+---------------+---------------|
   |                           | | |                           | | |
 4 |           mc_ri           |a|b|         term_mcri         |c|d|
   |---------------+---------------+---------------+---------------|
   |                           | | |                           |   |
 8 |        ccsa_termri        |e|*|        ccsa_origri        |***|
   |---------------+---------------+---------------+---------------|
   |                           |   |                           |   |
12 |          sdn_mcri         |***|          eon_mcri         |***|
   |---------------+---------------+---------------+---------------|
      ( 16 bytes )
```

## 4. Population rules for RLrt_tgid

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**Relation Description**

Terminal group Id.

Associates a modular feature customization capability (MFC) terminal group with its associated data in the AM.

**Attribute:**
tgid
**Fullname:**
Terminal group Id.
**Attribute Description:**
ID of this MFC terminal group.

**Attribute:**
orig_sfg
**Fullname:**
Originating simulated facility group
**Attribute Description:**
Indicates if a simulated facility is needed to escape this CCSA/ESSX terminal group (DBYES) or not (DBNO).

Dependency:
If DBYES then
rlRT_TGID.mc_ri and/or rlRT_TGID.ccsa_origri > 0.

**Attribute:**
mc_ri
**Fullname:**
MFC route index
**Attribute Description:**
Used by private facilities and automatic route selection feature routing.

Dependency:
If > 0 then
1) verify that a tuple exists in RLrt_mcrt such that:
   key rlRT_MCRT.mcri = rlRT_TGID.mc_ri,
   rlRT_MCRT.route_type = RTE_SFG.
2) verify that a tuple exists in RLrt_sfg such that:
   rlRT_SFG.grpnum = rlRT_MCRT.sfg_grp,
   rlRT_SFG.sfg_type is SFGOUTESSX or SFG2WESSX.

**Attribute:**
term_sfg
**Fullname:**
terminating simulated facility group
**Attribute Description:**
Indicates if a simulated facility is needed to enter this CCSA/ESSX terminal group (DBYES) or not (DBNO).
Range: DBYES/DBNO. Default: DBNO.

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If DBYES then
rlRT_TGID.term_mcri and/or rlRT_TGID.ccsa_termri > 0.

**Attribute:**
term_mcri
**Fullname:**
MFC route index associated with the terminating sfg
**Attribute Description:**
MFC route index associated with the terminating sfg needed to enter this terminal group. Used by private facilities and automatic route selection feature routing.

Dependency:
If > 0 then
1) verify that a tuple exists in Rlrt_mcrt such that:
key rlRT_MCRT.mcri = rlRT_TGID.term_mcri,
rlRT_MCRT.route_type = RTE_SFG.
2) verify that a tuple exists in RLrt_sfg such that:
rlRT_SFG.grpnum = rlRT_MCRT.sfg_grp,
rlRT_SFG.sfg_type is SFGINESSX or SFG2WESSX.

**Attribute:**
ffcf1
**Fullname:**
future field feature
**Attribute Description:**
These are spares reserved for future transparency and special feature use.

boolean reserved for future field feature use.

**Attribute:**
ffcf2
**Fullname:**
future field feature
**Attribute Description:**
These are spares reserved for future transparency and special feature use.

boolean reserved for future field feature use.

**Attribute:**
ffcf3
**Fullname:**
future field feature
**Attribute Description:**
These are spares reserved for future transparency and special feature use.

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boolean reserved for future field feature use.

**Attribute:**
sfg_6port
**Fullname:**
group number of sfg 6 port.
**Attribute Description:**
Group number of sixport sfg.

Dependency:
If > 0 verify existence of tuple in RLrt_sfg such that
key rlRT_SFG.grpnum = rlRT_TGID.sfg_6port,
rlRT_SFG.sfg_type = SFG6PORT.

**Attribute:**
ccsa_termri
**Fullname:**
Terminating CCSA MFC route index
**Attribute Description:**
MFC feature route index associated with the CCSA sfg needed to enter this terminal group. Used by ARS CCSA routing.

Dependency:
If > 0 then
1) verify that a tuple exists in RLrt_mcrt such that:
key rlRT_MCRT.mcri = rlRT_TGID.ccsa_termri,
rlRT_MCRT.route_type = RTE_SFG.
2) verify that a tuple exists in RLrt_sfg such that:
rlRT_SFG.grpnum = rlRT_MCRT.sfg_grp,
rlRT_SFG.sfg_type is SFGINCCSA or SFG2WCCSA.

**Attribute:**
ccsa_origri
**Fullname:**
Originating CCSA MFC route index
**Attribute Description:**
MFC feature route index associated with the CCSA sfg needed for recent change only.

Dependency:
If > 0 then
1) verify that a tuple exists in RLrt_mcrt such that:
key rlRT_MCRT.mcri = rlRT_TGID.ccsa_origri,
rlRT_MCRT.route_type = RTE_SFG.
2) verify that a tuple exists in RLrt_sfg such that:
rlRT_SFG.grpnum = rlRT_MCRT.sfg_grp,
rlRT_SFG.sfg_type is SFGOUTCCSA or SFG2WCCSA.

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**Attribute:**
sdn_mcri
**Fullname:**
SDN MFC route index for software defined networks.
**Attribute Description:**
MFC route index for software defined network which associates an SDN SFG with a terminal group. Used by network access point feature.

Dependency:
If > 0 then
1) verify that a tuple exists in RLrt_mcrt such that:
key rlRT_MCRT.mcri = rlRT_TGID.sdn_mcri,
rlRT_MCRT.route_type = RTE_SFG.
2) verify that a tuple exists in RLrt_sfg such that:
rlRT_SFG.grpnum = rlRT_MCRT.sfg_grp,
rlRT_SFG.sfg_type is SFGSDN.

**Attribute:**
eon_mcri
**Fullname:**
the EOLN base MFC route index
**Attribute Description:**
This attribute contains a base MFC route index that leads to an EON SFG when it is added with an EOLN service index from the other relation.
SFID218 must be active before this attribute is populated with a non default value.

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# RT_TM

## 1. Description

Associates a private facility feature identifier with its PFA group. Used for recent change (RC) default parameter for the pf feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |

## 3. Field Layout

```
RT_TM       relid = 561   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     feat_id     DMMCC_FID    (ushort)  <--- key
 (a) q_alwd      DMBOOL       (enum: 1)
 (b) qpriority   DMBOOL       (enum: 1)
     pf_gpid     DMFACNAME    (array [ 8 ] of char )
     pf_dtgpname  DMFACNAME    (array [ 8 ] of char )
         User, Compacted and Stored Tuple Layout  RT_TM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               | | |           |               |
  0 |            feat_id            |a|b|***********|    pf_gpid    |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                           pf_gpid                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                               |               |
  8 |                    pf_gpid                    |  pf_dtgpname  |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                         pf_dtgpname                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                               |               |
 16 |                 pf_dtgpname                   |***************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population Rules for RLrt_tm

**Relation Description**
Private facilities access (PFA) feature default parameter information.

Associates a private facility feature identifier with its default PFA groups and modular queueing parameters.

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**Attribute: feat_id**

**Fullname:** PFA feature identifier

**Attribute Description** An assignable PFA feature identifier.

**Attribute: pf_gpid**

**Fullname:** PFA group name

**Attribute Description** Identifies the default PFA circuit switch voice (CSV) group name defining the access codes and associated info for the PFA feature.

**Attribute: pf_dtgpname**

**Fullname:** Private Facilities data group name

**Attribute Description** Identifies the default PFA circuit switch data (CSD) group name defining the access codes and associated info for the PFA feature.

**Attribute: q_alwd**

**Fullname:** queuing allowed

**Attribute Description** Indicates if modular queueing for outgoing private facilities is allowed.

**Attribute: qpriority**

**Fullname:** priority queuing

**Attribute Description** Indicates if this is a priority line for modular queueing for private facilities.

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# RT_TRKG

## 1. Description

This relation contains the logical trunk group information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8191 |
| expected tuples in relation | 157 |
| density | 66 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFR |
| relation type | DBSTATIC |
| ks key store | AUTO |
| trigger function | DBrt_trkg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| spare space | 16s |

## 3. Field Layout

```
RT_TRKG     relid = 200   DBSTATIC   DBACC_CIND  DBPRAM    LRFR    NULL


     dpc          DMPT_CODE    (ulong: 24)
     shtcallcnt   DMUCHAR      (uchar)
     opc          DMPT_CODE    (ulong: 24)
     sht_thres    DMUCHAR      (uchar)
     grpnum       DMGRPNUM     (ushort)  <--- key
     trkgmbgid    DMUNS16      (ushort)
     atttn        DMSHORT      (short)
     qfid         DMMCC_FID    (ushort)
     ovfl_rti     DMRTEIDX     (ushort: 14)
 (a) ncd_scrn     DMNCDSCRN    (enum: 2)
     pbx_id       DMPBX_ID     (ushort: 12)
     rou_q        DMQTYPE      (enum: 3)
 (b) apt_inh      DMBOOL       (enum: 1)
     size         DMMEM        (ushort: 12)
 (c) servtype     DMSRV_TYP    (enum: 4)
     act_size     DMMEM        (ushort: 12)
     npt          DMNPT        (enum: 3)
 (d) callmon_inh  DMBOOL       (enum: 1)
     warnthresh   DMMEM        (ushort: 12)
 (e) wb_rate      DMWB_RATE    (enum: 3)
 (f) dcs_retry    DMBOOL       (enum: 1)
     raf_mbrs     DMMEM        (ushort: 12)
 (g) pri_appl     DMPRI_APPL   (enum: 3)
 (h) dcs_trk      DMBOOL       (enum: 1)
     lata_num     DMILATA      (ushort: 10)
     orig_lata    DMLATANUM    (uchar: 5)
 (i) apx_notify   DMBOOL       (enum: 1)
     fenxx        DMINXX       (ushort: 10)
     dsnarc_id    DMUNS6       (ushort: 6)
     pci          DMPCIDX      (ushort: 10)
```

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```
    htype        DMHNTTYPE    (enum: 5)
(j) satellite    DMBOOL       (enum: 1)
    fenpa        DMNPA        (array [ 3 ] of char )
    lht_thres    DMUCHAR      (uchar)
    psu_ca       DMPSUCA      (uchar)
    module       DMMODULE     (ushort: 8)
    cluster      DMCLUSTER    (ushort: 8)
    qmodule      DMMODULE     (ushort: 8)
    rqsize       DMUNS8       (ushort: 8)
    pqsize       DMUNS8       (ushort: 8)
    psu_mod      DMMODULE     (ushort: 8)
    amlpcnt      DMPCNTFLG    (ushort: 7)
(k) camaque      DMBOOL       (enum: 1)
    tpnum        DMRTPOS      (ushort: 7)
(l) coin         DMBOOL       (enum: 1)
(m) out_sigtype  DMDIGSIG     (enum: 5)
    type         DMGRPTYPE    (enum: 3)
(n) in_sigtype   DMDIGSIG     (enum: 5)
(o) dcs_digcnt   DMUNS5       (ushort: 5)
(p) trk_ici      DMTRK_ICI    (enum: 2)
(q) alm_lvl      DMAMLALM     (enum: 2)
(r) vpa_rate     DMVPA_RATE   (enum: 2)
(s) post_q_treat  DMPOSTQ     (enum: 2)
(t) tera_action  DMTERARCVY   (enum: 2)
(u) rlt_type     DMRLT_TYPE   (enum: 2)
(v) ctrl_type    DMCTRL_TYPE  (enum: 2)
(w) wbtsa_type   DMWBTSA_TYPE (enum: 2)
(x) cnaopt       DMCNAOPT     (enum: 2)
(y) tgbl         DMBOOL       (enum: 1)
(z) tkgpmkby     DMBOOL       (enum: 1)
(A) isdntgbwl    DMBOOL       (enum: 1)
(B) term_sfg     DMBOOL       (enum: 1)
(C) nlactive     DMBOOL       (enum: 1)
(D) dig_trunk    DMBOOL       (enum: 1)
(E) q_alwd       DMBOOL       (enum: 1)
(F) pri_q        DMBOOL       (enum: 1)
(G) enq_act      DMBOOL       (enum: 1)
(H) shuttle_check  DMBOOL       (enum: 1)
(I) calbycal     DMBOOL       (enum: 1)
(J) imt          DMBOOL       (enum: 1)
(K) rlt_flash    DMBOOL       (enum: 1)
(L) pri_bchan    DMBOOL       (enum: 1)
(M) enq_ln       DMBOOL       (enum: 1)
(N) ni_annc      DMBOOL       (enum: 1)
(O) niiw_annc    DMBOOL       (enum: 1)
(P) cama_psap    DMBOOL       (enum: 1)
(Q) bcl_assign   DMBOOL       (enum: 1)
(R) speech       DMBOOL       (enum: 1)
(S) staggered    DMBOOL       (enum: 1)
(T) stre_ip      DMBOOL       (enum: 1)
(U) stre_measure  DMBOOL       (enum: 1)
(V) ffcf1        DMBOOL       (enum: 1)
(W) ffcf2        DMBOOL       (enum: 1)
(X) ffcf3        DMBOOL       (enum: 1)
```

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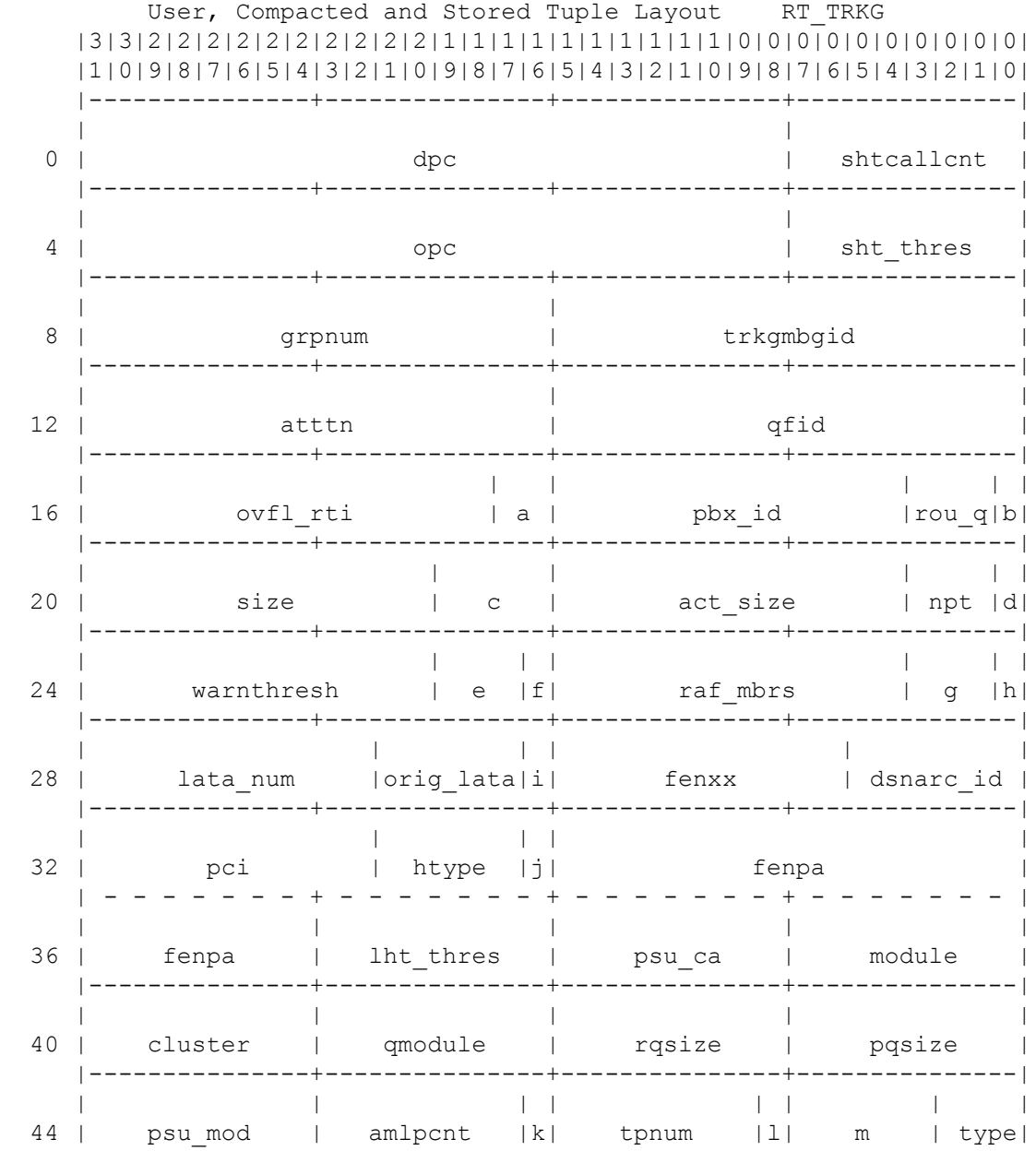
```
(Y) ffcf4       DMBOOL       (enum: 1)
(Z) inh_jip     DMBOOL       (enum: 1)
(a) sig_pnum    DMBOOL       (enum: 1)
(b) isg         DMBOOL       (enum: 1)
(c) outage_rpt  DMBOOL       (enum: 1)
(d) imm_start_ann  DMBOOL       (enum: 1)
(e) rtcd_req    DMBOOL       (enum: 1)
(f) mint_act    DMBOOL       (enum: 1)
(g) linebusy    DMBOOL       (enum: 1)
(h) ldpsp1      DMBOOL       (enum: 1)
(i) ldpsp2      DMBOOL       (enum: 1)
(j) ldpsp3      DMBOOL       (enum: 1)
(k) enh_psap_sig  DMBOOL       (enum: 1)
(l) calea       DMBOOL       (enum: 1)
(m) tendigonly  DMBOOL       (enum: 1)
```

User, Compacted and Stored Tuple Layout RT_TRKG



```
    |--------------+--------------+--------------+--------------|
    |              |              |   |   |   |   |   |   |   | | | | | |
 48 |    n         |    o         | p | q | r | s | t | u | v | w | x |y|z|A|B|
    |--------------+--------------+--------------+--------------|
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 52 |C|D|E|F|G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z|a|b|c|d|e|f|g|h|
    |--------------+--------------+--------------+--------------|
    | | | | | |                                                 |
 56 |i|j|k|l|m|*************************************************|
    |--------------+--------------+--------------+--------------|
       ( 60 bytes )
```

## 4. Population rules for RLrt_trkg

### Relation Description

Trunk group information

Logical trunk group information.

```
"*************************************************************************
Special trunk groups
*************************************************************************

    RLrt_trkg (local test desk [LTD] test trunks)

DESCRIPTION:

LTD test trunks provide the interface to external testing
systems (LTD, mechanized loop testing [MLT], Fortel, etc.)
for metallic loop testing of lines.  These trunks may be
configured as incoming trunks (LTD to lines tests) or outgoing
trunks (line to LTD tests).

A separate outgoing LTD trunk group is required for each
metallic community.  Thus, each remote module (remote switching
module [RSM], optically remote switching module [ORM], two-mile
optically remote switching module [TRM], multi-module remote
switching module [MMRSM] cluster, etc.) which is not metallically
linked to the host office must have its own outgoing LTD trunk
GROUP to provide LTD access from the lines within that module/cluster.
Each remote module must have its own incoming LTD test trunk
CIRCUIT(S), but this circuit(s) may be included in the same
trunk group as the non-remote module incoming test trunks.

Corresponding tuples must appear in the following relations:

        RLrc_trk        - keyed on trunk group and member
        RLrctgrprk      - keyed on trunk group
        RLgroup_port    - keyed on trunk group and member
        RLpggpmap       - keyed on trunk port
        RLfc_porttyp    - keyed on trunk port (servclass = TMTSTK)
        RLfc_trunk      - keyed on trunk port
```

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RLmtbtst - keyed on trunk port

QUANTITY OF TUPLES:

A tuple is required in RLrt_trkg for each LTD trunk group (incoming or outgoing) in the office.

TUPLE SEMANTICS:

RLrt_trkg attributes should be populated as shown in the following. Any attribute not specified should be populated with the default value.

```
grpnum (KEY)    - Incoming or outgoing LTD trunk group number.
type            - RTINCOM for incoming LTD trunk group.
                - RTOUTGO for outgoing LTD trunk group.
htype           - RTH_NONE for incoming LTD trunk group.
                - RTH_FIFO for outgoing LTD trunk group.
size            - Number of members in LTD trunk group.
atttn           - Zero.
apt_inh         - DBYES.
out_sigtype     - DBNOSIG.
in_sigtype      - DBMF for incoming LTD trunk group.
                - DBNOSIG for outgoing LTD trunk group.
```

**********

**********

RLrt_trkg (for DCTU trunk groups)

DESCRIPTION:

This section provides population rules for directly connected test units (DCTU) trunk groups.

1. DCTU trunk groups are trunk groups of logical test ports (LTPs). These LTPs have a servclass of TMLTPDCTU and must be defined in RLfc_porttyp, RLgroup_port, and RLpggpmap. The DCTU trunk groups have a servclass of TMLTPDCTU and must be appropriately populated in the relation RLRCTGRPRK. See the corresponding population rules in RLrctgrprk.

2. The type for DCTU trunk groups is RTTMGRP.

3. The hunt type (htype) for DCTU trunk groups in this relation must be set to RTH_FIFO. The operational use of the DCTU is not possible without this hunt type.

4. It is recommended that there be a singular DCTU trunk group number assigned for every DCTU in the office. However, it is valid for all DCTUs in a host 5ESS(R)-2000 switch processing entity to have all its associated DCTU trunk group members

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defined as part of one singular DCTU trunk group.

5. There must be a singular DCTU trunk group number assigned for every DCTU in the office that resides in a RSM. There must be a singular DCTU route index associated with this RSM DCTU trunk group. See the population rules for RLrt_routing and RLmodatt.

6. For each DCTU trunk group, there must a minimum of four DCTU trunk group members. The maximum number can only be determined from the number of DCTUs that are part of any DCTU trunk group.

7. For each RSM DCTU trunk group, there must a minimum of four DCTU trunk group members and a maximum of twelve DCTU trunk group members. See the population rules for RLfc_porttype, RLcktdata, RLpggpmap, and RLgroup_port.

8. For each DCTU trunk group defined here, there must be a singular DCTU route index assigned. The numerical value of the DCTU trunk group does not have to have the same numerical value for the DCTU route index. See the population rules for RLrt_routing and RLrcrtirmk.

9. For each RSM DCTU trunk group defined here, there must be a singular RSM DCTU route index assigned. The numerical value of the DCTU trunk group does not have to have the same numerical value for the DCTU route index. See the population rules for RLrt_routing and RLrcrtirmk.

10. DCTU trunk groups do not leave the office. Therefore, the value populated for fenpa is not used anywhere and is not applicable.

11. The same restrictions that apply to RSM also apply to ORM/TRM.

TUPLE SEMANTICS:

```
grpnum (KEY) - DCTU trunk group number.
type         - RTTMGRP.
module       - Zero (always zero).
cluster      - Zero.
ncd_scrn     - NO_SCRN (default).
orig_lata    - Zero (default).
htype        - RTH_FIFO.
size         - Highest member number plus 1.
atttn        - Zero.
tpnum        - 100 (Not applicable for DCTU).
apt_inh      - DBYES.
act_size     - Number of members in trunk group.
out_sigtype  - DBNOSIG.
in_sigtype   - DBNOSIG.
satellite    - DBNO.
fenpa        - Not applicable, use default.
fenxx        - Not applicable, use default (199).
lata_num     - Zero (default).
```

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```
coin          - DBNO (default).
camaque       - DBNO.
tgbl          - DBNO.
isdntgbwl     - DBNO.
warnthresh    - Zero (default).
tkgpmkby      - DBNO.
term_sfg      - DBNO.
imt           - DBNO.
rlt_type      - RLT_NONE.
rlt_flash     - DBNO.


*************************************************************************

                RLrt_trkg (for ISTF trunk groups)

DESCRIPTION:

Integrated services test function (ISTF) trunk groups
exist one per ISTF logical test port (LTP) type.  Currently
there are two ISTF LTP types (servclass=TM_ISTFLB,
servclass=TM_ISTFXMIT).  A route index exists per ISTF LTP
type and points to each ISTF trunk group.  Each member of
the trunk group corresponds to a LTP.

Each ISTF can have 31 loopback LTPs and three transmission
test LTPs.  Each switching module (SM) can have up to four
ISTF boards.  The contributions to the two trunk groups per
SM would be a maximum of 124 loopback members for the one
trunk group and 12 transmission test members for the other
trunk group.

Since these trunk groups are test trunks, the automatic
progression test (APT) should not be executed for it.  This
is stopped by having atttn attribute set to zero and apt_inh
to DBYES which says to inhibit APT.

QUANTITY OF TUPLES:
One tuple per ISTF LTP type.

TUPLE SEMANTICS:

grpnum (KEY) - ISTF trunk group number.  There is a number
               for each different type of ISTF LTP.
type         - RTTMGRP
module       - Zero (always zero).
cluster      - Zero.
ncd_scrn     - NO_SCRN (default).
orig_lata    - Zero (default).
htype        - RTH_FIFO.
size         - Highest member number plus 1.
atttn        - Zero.
tpnum        - 100 (Not applicable for ISTF).
apt_inh      - DBYES.  Test trunks do not get tested by APT.
```

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```
out_sigtype  - DBNOSIG.
in_sigtype   - DBNOSIG.
satellite    - DBNO.
fenpa        - Not applicable, use default.
fenxx        - Not applicable, use default (199).
lata_num     - Zero (default).
coin         - DBNO (default).
camaque      - DBNO.
tgbl         - DBNO.
isdntgbwl    - DBNO.
warnthresh   - Zero (default).
tkgpmkby     - DBNO.
term_sfg     - DBNO.
imt          - DBNO.
rlt_type     - RLT_NONE.
rlt_flash    - DBNO.

**********************************************************************
```

## RLrt_trkg (for digital service unit model 2-recorded announcement function [DSU2-RAF] and Service Announcement System [SAS] port groups)

DESCRIPTION:

This relation must be populated for every RAF/SAS port group routed to either through fixed route index (see RT_FIXEDRI and RT_ROUTING) or other.

NOTE:

1. A DSU2-RAF/SAS port group does not correspond to a specific announcement, only a set of possible announcements. The announcement is selected later and is transmitted in an instruction to the DSU2-RAF/SAS by the terminal process associated with the port.

2. It is recommended that all DSU2-RAFs/SASs containing ports belonging to a particular port group should be equipped with the same set of announcements or at least a common subset thereof.

3. The RAF/SAS port group defined can be distributed over any number of SMs depending on the application. Routing to individual SMs (as opposed to any SM on the switch) can be accomplished using a number of route indices, each mapping to RAF/SAS ports on different SMs.

4. To complete specification of the RAF/SAS port group, population is required in the following relations: GROUP_PORT, PGGPMAP, QKEYPORT, FC_PORTTYP, RCTRGPRK, RC_TRK, IMTGRPS. If the group is to be routed to using fixed route index, population should also appear in the

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relations RT_FIXEDRI, RT_ROUTING, and RCRTIRMK.

5. Those applications using the FCreq_annc() primitive (see fc/FCrafctrl) must ensure that the ANNC_HDR, ANNC_TRL and ANNC_DIG relations are populated on all SMs equipped with RAF/SAS ports in the port group defined here.

6. RAF/SAS port groups can have one of three announcement capabilities:
   a. An announcement capability which is responsible for playing announcements without the dial-through capability.
   b. An announcement capability in which digits can be dialed while an announcement is being played; this is referred to as the dial-through announcement capability. The announcement is terminated when the first digit is detected.
   c. An announcement capability in which coin tones can be received while an announcement is being played; this is referred to as the DSU2-RAF-COIN capability. The announcement is terminated when the first digit is detected. These port groups are routed to using fixed route index.

7. The remote announcement service (RAS) remote access to call forwarding (RACF) and automatic customer station rearrangement (ACSR) features are allowed to share the DSU2-RAF/SAS port group. When this is done the route index for each may terminate to the same group number.

   NOTE: Currently office engineering engineers for a shared resource for RAS and ACSR.

NUMBER OF TUPLES:

One tuple for each DSU2-RAF/SAS port group

TUPLE SEMANTICS:

```
grpnum      - Unique value chosen by office    - must correspond
              to grpnum specified in RT_ROUTING for the
              route index used in routing to this group.
type        - RTRAF (DSU2   -RAF/SAS group).
module      - Zero for distributed RAFs/SASs, SM number for local
              RAF/SAS groups (any module type).
pbx_id      - Zero (Default).
cluster     - See rules under general population rules for
              RLrt_trkg.cluster.
ncd_scrn    - NO_SCRN (Default).
orig_lata   - Zero (Default).
htype       - RTH_FIFO.
size        - Highest member number plus 1.
atttn       - Zero.
amlpcnt     - 101.
alm_lvl     - TMMAJALM (Major AML alarm)
```

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```
tpnum       - 100 (Not applicable for RAF/SAS).
apt_inh     - DBYES.
act_size    - Number of assigned ports in RAF/SAS group.
out_sigtype - DBNOSIG.
in_sigtype  - DBNOSIG.
satellite   - DBNO.
fenpa       - Not applicable    - use '\0'.
fenxx       - Not applicable, use default (199).
lata_num    - Zero (default).
coin        - DBNO (default).
camaque     - DBNO.
tgbl        - DBNO (Default).
isdntgbwl   - DBNO (Default).
warnthresh  - Zero (default).
tkgpmkby    - DBNO (Default).
term_sfg    - DBNO (Default).
nlactive    - DBNO (Default).
sht_thres   - Zero (Default).
shtcallcnt  - Zero (Default).
lht_thres   - Zero (Default).
vpa_rate    - CCPCT0.
dig_trunk   - DBNO.
dpc         - Zero.
opc         - Zero.
pci         - Zero (Default).
q_alwd      - DBNO (Default) for announcement port groups and
              coin announcement port groups; DBYES for automatic
              calling card service (ACCS) dial-through announcement
              port groups.
qmodule     - Zero (Default) for announcement port groups,
              module on which this group's queue resides
              for ACCS dial-through announcement port group,
              Zero (Default) for coin announcement port groups.
rqsize      - Zero (Default) for announcement and coin
              announcement port groups.  For ACCS dial-through
              announcement port groups, rqsize must be set
              to the desired number of calls to be allowed
              to queue for ACCS dial-through announcement ports.
              For ACCS dial-through announcement port groups,
              the following rules apply:

              Range of values:  0 - 255.
              Default value:  Zero.
              Dependencies: rqsize must be less than or equal to
                            (255 - (all (rqsize + qu_os.qbsize +
                            qu_os.qexsize) already assigned to this
                            particular SM))

              If q_alwd is DBYES then rqsize must be greater than
              zero.

pqsize      - Zero (Default).
rou_q       - Q_DSU for ACCS dial-through announcement port
              groups, Q_OFFHK for announcement and coin
```

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```
                announcement port groups.
pri_q       - DBNO (Default).
post_q_treat- QR_NULL.
                for announcement and coin announcement port
                groups.  QR_REORDER for ACCS dial-through
                announcement port groups.
                Dependencies:  When qfid is greater than zero, then
                QR_NULL is not allowed.  Therefore, for ACCS
                dial-through announcement port groups, post_q_treat
                must be set to QR_REORDER.
enq_act     - DBNO (Default).
qfid        - Queuing feature ID.  Zero for announcement and coin
                announcement port groups.  Must be greater than zero
                for ACCS dial-through announcement port groups.
                There is a constructed feature defined for
                ACCS dial-through announcement port groups
                called QTACCS.

                Range of values:  Zero, or top six bits = MFQU,
                bottom 10 bits must be 1 - 1023

                Default value:  Zero.

                Dependencies:  If qfid is greater than zero, a tuple in
                RLfacname with RLfacname.facid = qfid and
                RLfacname.subclass = SCL_FEAT
dsnarc_id   - Zero.
shuttle_check - DBNO.
calbycal    - DBNO.
tera_action - TMTNULL.
imt         - DBNO (Default).
rlt_type    - RLT_NONE.
rlt_flash   - DBNO.
raf_mbrs      Number of members in the trunk group that are
                from RAFs, as opposed to from SASs.

                DSU2-RAF/SAS (non dial through announcement [DTA]) port
                groups:  For each DSU2-RAF/SAS port group not having the
                dial-through announcement capability, there may exist
                a tuple with a key value of 'grpnum' in this relation
                that corresponds to an RLfc_porttyp tuple with an
                annc_apl of SVC_DA and an RLrt_fixedri tuple of ritype
                RT_OSPSDA or RT_EISOSPS.

                DSU2-RAF-DTA, DSU2-RAF-COIN, SAS-DTA, or SAS-COIN port groups:
                For each DSU2-RAF/SAS port group having the dial-through
                announcement capability, there may exist a tuple
                with a key value of 'grpnum' in this relation that
                corresponds to an RLfc_porttyp tuple with an annc_apl
                of SVC_ACCS and an RLrt_fixedri tuple of ritype
                RT_OSPS_ACCS.  Also for each DSU2-RAF/SAS port group
                having the dial-through announcement capability,
                there may exist a tuple with a key value of 'grpnum'
                in this relation that corresponds to an RLfc_porttyp
```

tuple with an annc_apl of SVC_ACSR and an RLrt_fixedri tuple of ritype RT_ACSR. If the corresponding RLfc_porttyp tuple has an annc_apl of SVC_COIN, there will exist an RLrt_fixedri tuple of RT_OSPSCOIN for the coin announcement capability. If the corresponding RLfc_porttyp tuple has an annc_apl of SVC_RAS for the dial-through announcement capability and there is a tuple in RLannc_apl with appl equal to SVC_RAS then there must exist a tuple in RLras_idp with a corresponding annc_ri and there is a tuple in RLannc_apl with appl equal to SVC_ACSR then there must exist a tuple in RLrt_fixedri with a ritype of RT_ACSR.
where (RLannc_apl.appl = SVC_ACSR)

**********
*

RLrt_trkg (for extended digital subscriber lines [EDSL] trunk groups)

DESCRIPTION:

EDSL B-channels and D-channels are defined as trunks and assigned in a trunk group. EDSL B-trunks are assigned in RLfc_porttyp with servclass FCEDSL or FCEDSLHM and with lp_type equal to PCTBCHAN. EDSL D-trunks have servclass equal to FCEDSL and lp_type equal to PCTDCHAN. FCEDSLHM is used for EDSL trunks with hotel/motel to TSPS service, FCEDSL is used for all other EDSL trunks.

B-trunks must be in a separate trunk group from D-trunks. For B-trunks and D-trunk groups, all group members must have the same servclass.

D-trunks for a given EDSL customer can be in individual trunk groups or all in one group (all in one is recommended). However, all trunks in a group must have the same datarate.

An EDSL customer may have B-trunks and D-trunks on more than one digital facility interface (DFI) (see EDSL description in RLfc_porttyp for channel description). B-trunk assignments to trunk groups is independent of DFI assignment, that is, trunks on one DFI can be in one or more trunk group, and trunks from one or more DFI can be in a trunk group, including trunks from more than one SM.

B-trunk groups in this relation with servclass FCEDSL or FCEDSLHM also have an entry in RLedsltrkg.

QUANTITY OF TUPLES:

One per B-trunk group and one per D-trunk group.

TUPLE SEMANTICS:

grpnum - Trunk group number.

type - Specify incoming, outgoing, or two-way for B-channel trunk groups. Specify ISDN link (RTISDNLK) for

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D-channel trunk groups. Cannot be outgoing if servclass equals FCEDSLHM (Enforced in RLfc_trunk.R). See also RLfc_porttyp.R servclass for rules specific to FCEDSL and FCEDSLHM.

module - Use zero for globally controlled group, module number for a local group.

pbx_id - Private branch exchange (PBX) identifier.

irr - Not applicable for domestic, use default zero.

deny_term - Not applicable for U.S., use default DBNO.

cluster - See rules under general population rules for RLrt_trkg.cluster.

ncd_scrn - Not applicable for EDSL, use default NO_SCRN.

orig_lata - Not applicable for EDSL, use default zero.

htype - See the explanation under the htype attribute. Note that not all the rules for htype for EDSL or EDSLHM trunk groups are enforced from this relation.

size - Highest member number of this trunk group plus one.

atttn - Use zero for EDSL D-channel trunk group or one-way incoming EDSL B-channel trunk groups. For outgoing or two-way EDSL B-channel trunk groups (servclass = FCEDSL or FCEDSLHM), an atttn can be assigned.

amlpcnt - Must be set to 100 for outgoing, 2-way, announcement incoming with dedicated E911 services and B-channel trunk groups. Set to 101 for incoming B-channel groups and D-channel trunk groups.

alm_lvl - Must be set to MAJOR alarm for all trunks. If the feature is purchased, the customer may recent change the alm_lvl to MINOR or CRITICAL.

apt_inh - Must be DBYES if atttn equals zero.

out_sigtype - Use DBDCHAN for outgoing and two way B-channel trunk groups and for ISDN link D-channel trunk groups. Use DBNOSIG for incoming B-channel trunk groups.

in_sigtype - Use DBDCHAN for incoming and two-way B-channel trunk groups and for ISDN link D-channel trunk

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```
                groups.  Use DBNOSIG for outgoing B-channel trunk
                groups.

satellite    - DBYES if trunk via satellite, otherwise DBNO.

fenpa        - See general pop rules for RLrt_trkg.fenpa.

fenxx        - Not applicable for EDSL, use default, 199.

lata_num     - Not applicable for EDSL, use default, zero.

coin         - Not applicable for EDSL, use default, DBNO.

camaque      - Not applicable for EDSL, use DBNO.

tgbl         - Not applicable for EDSL, use default DBNO.

isdntgbwl    - Not applicable for EDSL, use default DBNO.

warnthresh   - Not applicable for EDSL, use default zero.

tera_action - See general pop rules for RLrt_trkg.tera_action.

term_sfg     - See general pop rules for RLrt_trkg.term_sfg.

nlactive     - See general pop rules for RLrt_trkg.nlactive.

sht_thres    - See general pop rules for RLrt_trkg.sht_thres.

shtcallcnt   - See general pop rules for RLrt_trkg.shcallcnt.

lht_thres    - See general pop rules for RLrt_trkg.lht_thres.

vpa_rate     - Not applicable for EDSL, use default CCPCTO.

dig_trunk    - See general pop rules for RLrt_trkg.dig_trunk.

dpc          - Not applicable for EDSL, use zero.

opc          - Not applicable for EDSL, use zero.

pci          - Not applicable for EDSL, use default zero.

q_alwd       - See general pop rules for RLrt_trkg.q_alwd.

qmodule      - See general pop rules for RLrt_trkg.qmodule.

rqsize       - See general pop rules for RLrt_trkg.rqsize.

pqsize       - See general pop rules for RLrt_trkg.pqsize.

rou_q        - See general pop rules for RLrt_trkg.rou_q.

pri_q        - See general pop rules for RLrt_trkg.pri_q.
```

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```
enq_act     - See general pop rules for RLrt_trkg.enq_act.

post_q_treat - See general pop rules for RLrt_trkg.post_q_treat.

qfid        - See general pop rules for RLrt_trkg.qfid.

dsnarc_id   - Not applicable for EDSL, use default zero.

stre_ip     - Used by STOR feature to determine this is an
              IP trunk.

stre_measure - Used by STOR feature to determine when measurements
               are to occur.

shuttle_check - This item is set to DBYES when an office wishes to
              verify that the trunk group being terminated to is
              not the same as the one being originated on.  This
              is used in DSN switches on trunk groups between
              switches that support dual homed PBXs or end offices.
              It is allowed for use in the public network.

              Range:  DBYES, DBNO. Default is DBNO.

              Dependencies:  If shuttle_check equals DBYES, then
              htype must be one of the following: RTH_FWDLIN,
              RTH_BWDLIN, RTH_LGFWD, or RTH_LGBWD.

tpnum       - Not applicable for EDSL, use 100.  If trunk is not
              a one-way incoming or two-way, must use 100.

calbycal    - Use DBYES if this is an EDSL call by call trunk
              group, else use default DBNO.  If grpnum exists
              in RLedsltrkg, then RLedsltrkg.calbycal must have
              same value as RLrt_trkg.calbycal.  If
              RLrt_trkg.calbycal equals DBYES, a tuple must exist
              for RLedsltrkg.grpnum.  For definition of call by
              call see population rules in RLedsltrkg.

imt         - Use DBYES if this is an inter-module trunk group.
              otherwise, use DBNO (default).

rlt_type    - RLT_NONE.

rlt_flash   - DBNO.

*********************************************************************

               RLrt_trkg (for packet switching trunk group)

DESCRIPTION:

        A trunk group for packet switching is identified
        by hunt type  equal to RTH_PSUCD.  For packet switching,
```

the translation from group to port and from port to group is stored in PSGP_PRT and PSPRT_GP relations respectively. PSGP_PRT and PSPRT_GP are the replacement of GROUP_PORT and PGGPMAP respectively when htype is equal to RTH_PSUCD. Since X.75/X.75' packet trunk groups are limited to 24 members and IP packet trunk groups are limited to 32 members, the hunt type RTH_PSLGUCD must never be used.

For each packet switching trunk group, there should be a corresponding tuple in RLpstrunks. Also, if the trunk group type is X75 or X75', there should also be a corresponding tuple in RLpsl3trkg. RLpstrunks and RLpl3trkg have the same key (trunk group) as RLrt_trkg.

Service class of the trunk group for packet switching must be PSPKT_TRK for internal protocol (IP) trunks, PSX75P_TK for X.75' trunks and PSX75_TK for X.75 trunks in RLfc_porttyp relation. The trunk group is two-way type of the T1 or DS1 digital trunks.

All the members in a packet trunk group must be of DEN or NEN type.

Trunk group configuration for packet switching:

The following rules apply for IP trunks:

1. Service class of the IP trunk group must be PSPKT_TRK in fc_porttyp relation.
2. There will be a maximum of 16 IP trunk groups for each 5ESS(R)-2000 switch.
3. Each IP trunk group will have a maximum of 32 trunk members.
4. All IP trunks in a trunk group will terminate on the same SM.
5. Only one trunk member will terminate on a protocol handler 2 (PH2).
6. From one to six trunk members may terminate on a PH3 or PH4 as long as all of the trunk members are IP trunk members.
7. The trunk group is two-way.

The following rules apply for X.75' trunks:

1. There can be 255 X.75' trunk groups (per office) with a maximum of 24 trunk members per group.
2. There is a limit of 25 X.75' trunk groups on a given SM.
3. The trunk group is a two-way T1 or DS1 facility.
4. Only one trunk member will terminate on a PH2.
5. From one to six trunk members may terminate on a PH3 or PH4 as long as all of the trunk members are X.75' trunk members and all trunk member ports terminate in the same SM. It is recommended that only four trunk members are put on a given PH3 or PH4.
6. The service class of each member in fc_porttyp is

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PSX75P_TK.
7. X.75' trunk members can reside on different SMs.
8. All the trunk members in a X.75' trunk group can be split among non-remoted SMs and can not be split between RSMs, ORMs or TRMs, that is, if any RSM, ORM or TRM contains X.75' trunk members it must contain the whole group.

The following rules apply for X.75 trunks:
1. There can be 255 X.75 trunk groups (per office) with a maximum of 24 trunk members each.
2. There is a limit of 25 X.75 trunk groups on a given SM.
3. The trunk group is a two-way T1 or DS1 facility.
4. Only one trunk member will terminate on a PH2.
5. From one to six trunk members may terminate on a PH3 or PH4 as long as all of the trunk members are X.75 trunk members and all trunk member ports terminate in the same SM. It is recommended that only four trunk members are put on a given PH3 or PH4.
6. The service class of each member in fc_porttyp is PSX75_TK.
7. All the trunk members in a X.75 trunk group can be split among non-remoted SMs and can not be split between RSMs, ORMs or TRMs, that is, if any RSM, ORM or TRM contains X.75 trunk members it must contain the whole group.

The total combined number of packet trunks (IP, X.75, X.75') on any given ISDN SM is 25. This may consist of any number of types following the previous limits for the three types.

NUMBER OF TUPLES:

One tuple for each packet switching trunk group

TUPLE SEMANTICS:

grpnum - Unique value chosen by office - must correspond to grpnum specified in RT_ROUTING for the route index used in routing to this group.
type - RTTWOWAY.
module - Range from 0 to 192.
pbx_id - Zero (Default).
irr - DBNO (Default).
deny_term - DBNO (Default).
cluster - If all tuples in PSGP_PRT where PSGP_PRT.grpnum equal RT_TRKG.grpnum have PSGP_PRT.port.module as a module with the same MODATT.clid, then RT_TRKG.cluster equals MODATT.clid. Otherwise, RT_TRKG.cluster equals zero.
ncd_scrn - NO_SCRN (Default).
orig_lata - Zero (Default).
htype - RTH_PSUCD.
size - Highest member number plus one if one or more

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```
                members are present, otherwise, zero.
atttn         - Zero.
amlpcnt       - Range from 0 to 101.
alm_lvl       - TMMAJALM.
tpnum         - 100.
apt_inh       - DBYES.
out_sigtype   - DBNOSIG.
in_sigtype    - DBNOSIG.
satellite     - DBNO.
fenpa         - Not applicable - use '\0'.
fenxx         - Not applicable, use default, 199.
lata_num      - Zero (default).
coin          - DBNO (default).
camaque       - DBNO.
tgbl          - DBNO (Default).
isdntgbwl     - DBNO (Default).
warnthresh    - Zero (Default).
tkgpmkby      - DBNO (Default).
term_sfg      - DBNO (Default).
nlactive      - DBNO (Default).
sht_thres     - Zero (Default).
shtcallcnt    - Zero (Default).
lht_thres     - Zero (Default).
vpa_rate      - CCPCT0.
dig_trunk     - DBYES.
dpc           - Zero.
opc           - Zero.
pci           - Zero (Default).
q_alwd        - DBNO (Default).
qmodule       - Zero (Default).
rqsize        - Zero (Default).
pqsize        - Zero (Default).
rou_q         - Q_OFFHK.
pri_q         - DBNO (Default).
enq_act       - DBNO (Default)
qfid          - Zero (default).
dsnarc_id     - Zero.
shuttle_check - DBNO.
imt           - Use DBYES if it is an inter-module trunk
                group.  Otherwise, use DBNO (default).
rlt_type      - RLT_NONE.
rlt_flash     - DBNO.

*********************************************************************

        RLrt_trkg (for TM_RMSD3 and TM_TOPAS trunk groups)

DESCRIPTION:

The TM_RMSD3 trunk groups are connected from a
5ESS(R)-2000 switch to a RMS-D3 over a T1.


QUANTITY OF TUPLES:
```

One per RMSD3 trunk group and one per TOPAS trunk group.

NOTES ON TRUNK USAGE: 7/26/87

1.** Note: The FE_NPAs should not be cross-checked on a one-way incoming trunk if the COS equals TM_TOPAS or TM_RMSD3.
2. All trunks in a trunk group are COS=TM_RMSD3 or all are not.
3. All RMS-D3 trunks on a DTU are in the same trunk group.
4. All RMS-D3 DTUs (24 trunks) are in a separate trunk group.
5. There are no restrictions on the SM(s) to which to connect the TM_RMSD3 or TM_TOPAS trunks.
6. The TPNUM field must be 100 for all trunks that are not two-way or one-way incoming. For two-way or incoming, TPNUM will be 0-99; zero is the default.
7. The value that should be changed via recent change/verify (RC/V) into this relation for TPNUM must be identified by the TOPAS engineer at office turn-up.

TUPLE SEMANTICS:

grpnum - Trunk group number.
type - RTINCOM.
module - Zero.
pbx_id - Zero.
irr - DBNO.
deny_term - DBNO.
cluster - Zero.
ncd_scrn - NO_SCRN.
orig_lata - Zero.
htype - RTH_NONE.
size - Highest member number of this trunk group plus one.
atttn - Zero.
amlpcnt - 101.
alm_lvl - TMMAJALM (Default).
apt_inh - DBYES.
out_sigtype - DBNOSIG.
in_sigtype - DBMF.
satellite - DBNO.
fenpa - Not applicable, use default.
--> NO CROSS-CHECK SHOULD BE DONE ON ONE-WAY INCOMING

fenxx - Not applicable, use default, 199.
lata_num - Zero (default).
coin - DBNO (default).
camaque - DBNO.
tgbl - DBNO.
isdntgbwl - DBNO.
warnthresh - Zero (default).
tkgpmkby - DBNO.
term_sfg - DBNO.
nlactive - DBNO.
sht_thres - Zero.

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```
shtcallcnt   - Zero.
lht_thres    - Zero.
vpa_rate     - CCPCTO.
dig_trunk    - DBNO.
dpc          - Zero.
opc          - Zero.
pci          - Zero.
q_alwd       - DBNO.
qmodule      - Zero.
rqsize       - Zero.
pqsize       - Zero.
rou_q        - Q_OFHK.
pri_q        - DBNO.
enq_act      - DBNO.
qfid         - Zero.
dsnarc_id    - Zero.
shuttle_check - DBNO.
tpnum        - 0-99 for TM_RMSD3, default = zero.
calbycal     - DBNO.
imt          - DBNO.
rlt_type     - RLT_NONE.
rlt_flash    - DBNO.

*********************************************************************

        Rlrt_trkg (for busy line verification (BLV) trunk groups)

Description:

        BLV trunks should be populated as an outgoing trunk
        with a service class of FC_BV_TOLLCMP or FC_BV_INTOLL.

        BLV trunk queuing should not be used when the
        5ESS(R)-2000 switch is performing as a tandem office
        and only passing the BLV call through the network.
        Queuing should not be used when the Operator Services
        Position System (OSPS) originates BLV calls and is on
        a node in the BLV network.

        BLV queuing should only be used when there are a
        minimal number of BLV trunks providing access to the
        BLV network for one OSPS office.  It should also be
        when the OSPS is not on a BLV network node.

        Since most OSPS offices will probably be on a node
        in the BLV network, BLV queuing should seldomly be
        used.

        The ability to queue BLV trunk requests, when all
        members of a selected trunk group are busy, can be
        accomplished by additionally assigning the following
        attributes.

        attribute       value   comments
```

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```
        ---------       ------  ---------------------------
        atttn           0
        apt_inh         DBYES
        q_alwd          DBYES   Allows queuing on trunk group
        rou_q           Q_BLV   Used for BLV queuing
        qfid                    There is preconstructed
                                feature ID defined - QTBLV
        pri_q           DBNO    There is no priority queuing
                                for BLV
        qmodule
        rqsize
        pqsize
        enq_act
        post_q_treat            indicates that current rules apply
                                for these attributes

*********************************************************************

        RLrt_trkg (for OSPS EDSL trunk groups for interflow
        also known as OSPS primary rate interface [PRI])

DESCRIPTION:

OSPS PRI B-channels and D-channels are defined as trunks and assigned
in a trunk group.  OSPS PRI trunks are assigned in RLfc_porttyp
with servclass OA_IFOPER for pseudo operators at a sending
OSPS.  OSPS PRI trunks are assigned in RLfc_porttyp
with servclass OA_IFTERM for interflow originating terminal
processes at a receiving OSPS.

OSPS PRI D-trunks have lp_type = PCTDCHAN.
OSPS PRI B-trunks have lp_type = PCTBCHAN.

B trunks must be in a separate trunk group from D
trunks.  For B and D trunk groups, all group members
must have the same servclass.

All D trunks for a given OSPS destination should be in
the same trunk group. All trunks in a group must have the
same datarate.

All B-trunks for a given OSPS destination should be in the same
trunk group, even if across more than one PRI.  All trunks in a
group must have the same datarate.

An OSPS PRI destination may have B-trunks and D-trunks on more than
one DFI (See OSPS PRI description in RLfc_porttyp for channel
description).  B-trunk assignments to trunk groups is independent of
DFI assignment, that is, trunks on one DFI can be in one or more trunk
group, and trunks from one or more DFI can be in a trunk group,
including trunks from more than one SM.
```

## 5. RT_TRKG Population rules continued.

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QUANTITY OF TUPLES:

One per B-trunk group and one per D-trunk group.

TUPLE SEMANTICS:

grpnum - Trunk group number.

type - Specify incoming, or outgoing for B-channel trunk groups. Specify ISDN link (RTISDNLK) for D-channel trunk groups. Outgoing, if servclass equals OA_IFOPER. Incoming, if servclass equals OA_IFTERM.

module - Use zero for globally controlled group, module number for RSM local group.

pbx_id - Use default zero.

irr - Not applicable for domestic, use default DBNO.

deny_term - Not applicable for U.S., use default DBNO.

cluster - See rules under general population rules for RLrt_trkg.cluster.

ncd_scrn - Not applicable for OSPS PRI, use default NO_SCRN.

orig_lata - Not applicable for OSPS PRI, use default zero.

htype - Use RTH_NONE for OSPS PRI.

size - Highest member number of this trunk group plus one.

atttn - Use zero for OSPS PRI D-channel trunk group or one-way incoming OSPS PRI B-channel trunk groups. For outgoing OSPS PRI B channel trunk groups (servclass equals OA_IFOPER), an atttn can be assigned.

amlpcnt - Must be set to 101.

alm_lvl - Must be set to TMMAJALM.

apt_inh - Must be DBYES if atttn equals zero.

out_sigtype - Use DBDCHAN for outgoing B-channel trunk groups and for ISDN link D-channel trunk groups. Use DBNOSIG for incoming B-channel trunk groups.

in_sigtype - Use DBDCHAN for incoming B-channel trunk groups and for ISDN link D-channel trunk groups. Use DBNOSIG for outgoing B-channel trunk groups.

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```
satellite    - DBYES if trunk via satellite, otherwise DBNO.

fenpa        - Allowed for incoming OSPS PRI B-channel trunk groups.
               See general pop rules for RLrt_trkg.fenpa.

fenxx        - Not applicable for OSPS PRI, use default, 199.

lata_num     - Not applicable for OSPS PRI, use default, zero.

coin         - Not applicable for OSPS PRI, use default, DBNO.

camaque      - Not applicable for OSPS PRI, use DBNO.

tgbl         - Not applicable for OSPS PRI, use default DBNO.

isdntgbwl    - Not applicable for OSPS PRI, use default DBNO.

warnthresh   - Not applicable for OSPS PRI, use default zero.

tera_action  - See general pop rules for RLrt_trkg.tera_action.

tkgpmkby     - Not applicable for OSPS PRI, use default DBNO.

term_sfg     - Not used by OSPS PRI, use DBNO.

nlactive     - Not applicable for OSPS PRI, use default DBNO.

sht_thres    - Not applicable for OSPS PRI, use default zero.

shtcallcnt   - Not applicable for OSPS PRI, use default zero.

lht_thres    - Not applicable for OSPS PRI, use default zero.

vpa_rate     - Not applicable for OSPS PRI, use default CCPCTO.

dig_trunk    - See general pop rules for RLrt_trkg.dig_trunk.

dpc          - Not applicable for OSPS PRI, use zero.

opc          - Not applicable for OSPS PRI, use zero.

pci          - Not applicable for OSPS PRI, use default zero.

q_alwd       - Not applicable for OSPS PRI, use default DBNO.

qmodule      - Not applicable for OSPS PRI, use default zero.

rqsize       - Not applicable for OSPS PRI, use default zero.

pqsize       - Not applicable for OSPS PRI, use default zero.

rou_q        - Not applicable for OSPS PRI, use default Q_OFFHK.
```

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```
        pri_q        - Not applicable for OSPS PRI, use default DBNO.

        enq_act      - Not applicable for OSPS PRI, use default DBNO.

        post_q_treat - Not applicable for OSPS PRI, use default QR_REORDER.

        qfid         - Not applicable for OSPS PRI, use default zero.

        dsnarc_id    - Not applicable for OSPS PRI, use default zero.

        shuttle_check - Not applicable for OSPS PRI, use default DBNO.

        tpnum        - 100.

        calbycal     - Not applicable for OSPS PRI, use default DBNO.

        imt          - DBNO .

        rlt_type     - RLT_NONE.

        rlt_flash    - DBNO.

        ************************************************************/"
```

**Attribute:**
grpnum
**Fullname:**
Group number
**Attribute Description:**
Trunk group number.

**Attribute:**
type
**Fullname:**
Trunk type
**Attribute Description:**
Group type. If the group 'type' indicates an announcement group, RTANNCMNT, and the 'module' attribute is non-zero (that is, the group is a local announcement group) the RLrtanngrp relation for that module must have a tuple with its 'anngrp' attribute value equal to the 'grpnum' value.
This restriction does not apply to VCDX offices, however.

Common Channel Signaling System 6 (CCIS6) trunks must be

two-way. Telephon user part 7 (TUP7) trunks must be two-way.

ISDN user part 7 (ISUP7) trunks may be one-way or two-way.

If the trunk class of service is FC_SPAWATS or FC_SPAMEG, then the 'type' must be either two-way or one-way incoming.

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If the trunk class of service is FC_SPAB800 or FC_SPAM800, then the 'type' must be either two-way or one-way outgoing.

**Attribute:**
module
**Fullname:**
Module
**Attribute Description:**
Module number identifier. A zero value indicates that the group is a globally controlled group. This is normally the case when the ports associated with a group are spread across more than one module. The dynamic hunt data for all ports will be in the administrative module (AM).

A non-zero value indicates the module number for a module local group. This is normally the case when the ports of a group are all physically located on the same module. The dynamic hunt data for all ports in the group will be located in that module.

If attribute servclass as found in relation RLrctgrprk for this trunk group number (key attribute grpnum) has the value FC_CP_TALKING or FC_CP_KEYING then module must be zero.

In a VCDX office, the general rule is for the module number to be non-zero or local. Exceptions include TM test trunks and RDTA trunks when the service class is FCEDSL.

If the 'out_sigtype' attribute is DBCCIS6, DBTUP7, or DBISUP7, then module must be set to zero. This means that common channel signaling (CCS) trunk groups will always be global groups.

CCS trunks can be connected to any module. However, if the module goes into standalone, the CCS trunks will not be used. Further, if a CCS trunk is in use and the module goes into standalone, and the caller (or called party) hang up, the trunk will remain active until the module is reconnected to the AM.

**Attribute:**
pbx_id
**Fullname:**
PBX/CPE ID
**Attribute Description:**
If the trunk group belongs to a PBX this field contains the PBX identifier. For non-PBX groups this will have the value zero. The full domain subrange is valid and the default value is zero. If non-zero, this is the key to the IRLfc_pbx relation containing information relating to the whole PBX. The IRLfc_pbx relation is only used by international and not by U.S.

For each trunk group connected to the same far PBX, this attribute must be populated with the same value. When this attribute is

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populated, the attribute RLfc_trunk.pbx_id must be populated with the same value for each member in the trunk group. RLrt_trkg.pbx_id can be populated with zero if screening of user-provided calling party numbers (CPNs) from the PBX is not going to be done. See the poprules for RLedsltrkg.cpn_scrn. If screening of user-provided CPNs is going to be done, at least one tuple in RLsc_range keyed by this PBX/CPE id must be created. Since internal name pbx_id remains same and this field pbx_id now being called PBX/CPE ID on the screen, but the internally the attribute name stays same. See population rules for RLsc_range in RLsc_range.p.

**Attribute:**
cluster
**Fullname:**
Cluster
**Attribute Description:**
This attribute is used to determine whether to apply AM alternate emergency routing to calls originating outside of an RSM in standalone. If this attribute is non-zero and the RSM is in standalone, it will be tried. If RT_TRKG.type is RTINCOM or RTTMGRP, cluster equals zero. Otherwise, for non-packet-switched trunk groups (htype does not equal RTH_PSUCD), if all tuples in GROUP_PORT where PGGPMAP.grpnum equals RT_TRKG.grpnum have PGGPMAP.port.module as a module with the same MODATT.clid, then RT_TRKG.cluster equals MODATT.clid. Otherwise, RT_TRKG.cluster equals zero. For packet-switched trunk groups (htype equals RTH_PSUCD), if all tuples in PSGP_PRT where PSGP_PRT.grpnum equals RT_TRKG.grpnum have PSGP_PRT.module as a module with the same MODATT.clid, then RT_TRKG.cluster equals MODATT.clid. Otherwise, RT_TRKG.cluster equals zero.

**Attribute:**
ncd_scrn
**Fullname:**
Network call denial (NCD) screening
**Attribute Description:**
NCD screening type for toll application. Must be set to one of the following values:

NO_SCRN - If calls are not to be screened for NCD. This is a default value. For incoming trunk groups with class of service (COS) of FC_ISPOPR or FC_OPR_DIOR, the ncd_scrn value should be set to NO_SCRN.
SC_W_LMAP - Screen calls for NCD requiring LATA mapping. This value is valid when the type attribute is equal to RTINCOM and the service class (from servclass attribute in RLrctgrprk) is equal to FC_CA_ANI.
SC_WO_LMAP - Screen calls for NCD without LATA mapping. This value is valid when

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type is equal to RTINCOM or RTTWOWAY and the
service class is equal to FC_LATA_CONN.

**Attribute:**
orig_lata
**Fullname:**
Originating local access and transport area (LATA)
**Attribute Description:**
Will take on values from 2 to 15 to indicate the originating LATA identity of the trunk group for toll and NCD application. Must be known if ncd_scrn is equal to SC_W_LMAP, otherwise the default value is zero (null value).

**Attribute:**
lata_num
**Fullname:**
LATA number
**Attribute Description:**
This is the LATA number of the office on the other end of this trunk. It is required if this is a service switching point office:

Glssp = DBYES

and the office serves more than one LATA and the type attribute equals

RTINCOM (incoming) or
RTOUTGO (outgoing) or
RTISDNLK (EDSL) or
RTTWOWAY (two-way)

This check is not enforceable by RC or ODA since there is no way to know if the office serves more than one LATA.

**Attribute:**
trkgmbgid
**Fullname:**
TRunk Group Multiswitch Business Group (MBG) IDentifier
**Attribute Description:**
trkgmbgid is an identifier used to describe a Multiswitch Business Group (MBG), for which the following indicated actions apply.

This is a unique number in the network with a range of {0,2-65535}. The value 1 is reserved.

A value of 0 denotes a null value; this null value means that the trunk group contains public trunks, the trunk group is not associated with any single MBG identifier. Trunks in this trunk group can be used to signal only public MBG related information.

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```
        A non-zero value indicates a single Multiswitch Business Group
        (MBG) IDentifier value for which MBG calls are allowed to
        send the Generic Digits Parameter (GDP) with the type of trunk
        encoded in the parameter.

        The GDP parameter may be populated and sent provided:
            (1) the call is a MBG call
            (2) The outgoing trunk's trkgmbgid matches the
                MBG identifier that is dynamically associated
                with the outgoing MBG call.

        For details on how an mbgid is associated with
        a call and dynamically matched to trkgmbgid, refer to:

        1) 235-190-110 "National ISDN Feature Descriptions"
        2) 235-190-120 "Common Channel Signaling Service Features"

        /* RULE about RLrt_trkg.trkgmbgid */

        /* RLrt_trkg.trkgmbgid must be 0 unless */
        /* CENTREX Network for government Secure (CNS) */

        /* CNS_SFID #183 is on or VPN Expansion Package 2
         * (SFID 270) is on. */
```

**Attribute:**

```
        ovfl_rti
```

**Fullname:**

```
        Overflow route index
```

**Attribute Description:**

```
        ovfl_rti is a Modular Constructed (MC) route index used to
        select an SFG and control overflow traffic from a trunk group
        marked CNS (trkgmbgid != 0) to a public trunk (trkgmbgid = 0).

        ovfl_rti may only be populated with a non-zero value for
        trunk groups that are marked CN-S (trkgmbgid != 0)
        ovfl_rti is only used for calls that have a non-zero terminal group
        and have been routed over a trunk group where RLrt_trkg.trkgmbgid
        matches with the value of business group identifier that is
        used by the call.
```

**Attribute:**

```
        trk_ici
```

**Fullname:**

```
        Trunk group incoming call identifier
```

**Attribute Description:**

```
        trk_ici is used to display to an ISAT called party the type
        of trunk that originated an MBG call.
        This value is loaded into the ISUP7 GDP parameter at the
        originating end office and passed to the far switch.
```

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If the call terminates to an ISAT terminal, this value is then displayed for the attendant.

**Attribute:**
htype
**Fullname:**
Hunt type
**Attribute Description:**
Hunt type.

Range: All values except the following:
RTH_MUPH, RTH_SFG, RTH_LGSFG.

Note: Not all the rules for htype are enforced in this relation. There htype rules in FC_PORTTYPE and in FC_TRUNK as well as relations that exist for specific trunk class of service such as EDSLTRKG.

RTH_FIFO is a valid hunt type for a servclass of TM_CALLBK as found in relation RLrctgrprk for IMLT-2 callback logical test ports.

RTH_FIFO is the valid hunt type for a servclass of TMDFTACLTP as found in relation RLrctgrprk for IMLT-2 DFTAC logical test ports.

RTH_FIFO is the only valid hunt type for a servclass of DGPPMLTP as found in relation RLrctgrprk. DGPPMLTP is only used in EXPORT.

If htype is set to the precedence and preemption hunt types RTH_PRFLIN, RTH_PRBLIN, RTH_PLFLIN, RTH_PLBLIN, RTH_PRFIFO, or RTH_PLFIFO, the following dependency exists:
All members of this trunk group must be assigned a precedence and preemption modular feature. Therefore, a tuple keyed on the port number for every trunk in this trunk group must exist in the relation RLpp_trunk. To verify this, for every tuple in RLfc_trunk where RLfc_trunk.tgroup equals grpnum for this tuple, there must be a tuple in RLpp_trunk such that:
RLpp_trunk.port == RLfc_trunk.port.

For one-way outgoing CCS ISUP7 trunks, (out_sigtype equals DBISUP7 and in_sigtype equals DBNOSIGNAL) set the htype to RTH_FIFO or RTH_ROTATE.

For one-way incoming CCS ISUP7 trunks, (in_sigtype equals DBISUP7 and out_sigtype equals DBNOSIGNAL) set the htype to RTH_NONE (no hunting on incoming trunks).

For SES trunk groups (servclass FC_SES), the htype must be RTH_NONE.

If htype equals one of the following:

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```
RTH_FIFO
RTH_ROTATE
RTH_NONE
RTH_PRFIFO
RTH_PLFIFO
then shuttle_check must equal DBNO.

A trunk group for packet switching is identified
by hunt type  equal to RTH_PSUCD.  For packet switching,
the translation from group to port and from port to group
is stored in PSGP_PRT and PSPRT_GP relations respectively.
PSGP_PRT and PSPRT_GP are the replacement of GROUP_PORT
and PGGPMAP respectively when htype is equal to
RTH_PSUCD.  The enumeration RTH_PSLGUCD must never be
assigned to packet trunk groups.

For each packet switching trunk group, there should be a tuple
in both the RLpstrunks and RLpsl3trkg relation.  RLrt_trkg,
RLpstrunks and RLpsl3trkg have trunk group number as the key.

Service class of the trunk group for packet switching must
be PSPKT_TRK for IP trunks, PSX75P_TK for X.75' trunks and
PSX75_TK for X.75 trunks in RL fc_porttyp relation.  The trunk
group is 2_way type of the T1 or DS1 digital trunks.

All the members in a packet trunk group must be of DEN or NEN type.

For trunk groups with a service class of EDSL or EDSLHM the
following htype rules apply:
        For D channel trunk groups htype must be RTH_NONE
        (this is enforced in relation EDSLTRKG),
        (note also that type is RTISDNLK).

        For B channel trunk groups:
              if type is RTINCOM htype must be RTH_NONE.
              (this is enforced in relation FC_PORTTYP).

              if type is RTOUTGO htype must be RTH_FIFO
              (note also, that EDSLHM can not be RTOUTGO,
               enforced in relation FC_TRUNK).

              if type is RTTWOWAY htype must be:
               if service class is EDSL
                      RTH_FWDLIN, RTH_LGFWD,
                      RTH_BWDLIN, RTH_LGBWD,
                      RTH_UCD, RTH_LGUCD,
                      RTH_GUCD, RTH_LGGUCD,
                      RTH_BGUCD, RTH_LGBGUCD,
                      RTH_PRFLIN, RTH_PLFLN,
                      RTH_PRBLIN, RTH_PLBLIN

               if service class is EDSLHM
                      RTH_FWDLIN, RTH_LGFWD,
                      RTH_BWDLIN, RTH_LGBWD,
```

RTH_UCD, RTH_LGUCD,
RTH_GUCD, RTH_LGGUCD,
RTH_BGUCD, RTH_LGBGUCD

**Attribute:**
size
**Fullname:**
Group size
**Attribute Description:**
Highest member number plus one.

If 'htype' is RTH_UCD, RTH_FWDLIN, RTH_BWDLIN, RTH_PRFLIN, RTH_PRBLIN or RTH_PRFIFO, then 'size' must be in the range 0-192.

If 'htype' is RTH_LGUCD, RTH_LGFWD, RTH_LGBWD, RTH_PLFLIN, RTH_PLBLIN or RTH_PLFIFO, then 'size' must be in the range 193-1952.

If 'htype' is any other valid value, then 'size' must be in the range 0-1952.

If no members are assigned then size equals zero.

**Attribute:**
atttn
**Fullname:**
Automatic trunk test table number (ATTTN)
**Attribute Description:**
Automatic trunk test table number. An ATTTN can be assigned to any outgoing or two way trunk with a service class of:

FC_SEC_INTOLL,
FC_LTOLL_CONN,
FC_PDID, FC_IEC,
FC_PF,
FC_PFLASH,
FC_PFITT,
OA_IFOPER,
FCEDSL,
FCEDSLHM,
FC_OPRISP,
FC_OPRTSP,
FC_LATA_CONN,
FC_PRI_INTOLL,
FC_TTOLL_CONN,
FC_TSPS,
FC_CAMA.

ATTTNs should not be assigned to any other trunks.

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**Attribute:**
amlpcnt
**Fullname:**
Automatic maintenance limit (AML) percentage
**Attribute Description:**
Automatic maintenance limit percentage. The default value will be 101 for all trunk groups, and that is the only value a trunk group can have unless two-way, outgoing, announcement or incoming with dedicated E911 services. Two-way, outgoing, announcement and incoming with dedicated E911 services can have any integer value from 0 to 101 (default is still 101 when non-DCS). A value of 101 indicates to ignore the field and figure AML at runtime. A value of 0 to 100 is the percentage of trunks in that trunk group that can be taken out of service automatically (non-manually) by the 5ESS(R)-2000 switch.

Note: The RC/ODA screen containing this field does not use 101, instead it uses a NULL string. A NULL string is saved internally as 101, and a value of 101 is displayed as a NULL string.

**Attribute:**
alm_lvl
**Fullname:**
Automatic maintenance limit (AML) alarm level
**Attribute Description:**
Automatic maintenance limit alarm level. This variable determines the type of alarm that is generated once the number of trunk members in an AML-able trunk group has been removed from service and reaches it's AML limit. The default value for this alarm will be major (TMMAJALM) for all trunk groups. Since the E911 Trunk group failure feature is a secured feature, the alm_lvl field will not be recent changeable unless purchased. Once purchased for the office, the alm_lvl field will be recent changeable by the switch personnel for any AML alarm level of TMMINALM, TMMAJALM or TMCRITALM.

**Attribute:**
tpnum
**Fullname:**
Testing Operations, Provisioning and Administrative System (TOPAS) number
**Attribute Description:**
TOPAS test position number. This is used to determine the TOPAS test position to terminate a test call of type 101RMS. The value must be 100 for all trunk groups that do not have TM_RMSD3 service class. If trunk group service class is TM_RMSD3, then tpnum must have a value from 0 to 99 (default zero) which indicates the assigned TOPAS test position. The office will be initially populated with the default value (zero) for trunk groups with TM_RMSD3 class

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of service trunk and with the value 100 for all other type of trunks.

Note: The TPNUM attribute is only meaningful for trunk groups that are to be processed by the remote measurement system-digital 3 (RMS-D3). RMS-D3 does their own trunk hunting for test call termination and test call queuing. The tpnum attribute is the TOPAS test position from which the internal hunting should begin. The trunk groups with class of service TM_RMSD3 should have a value of 00-99 for the tpnum attribute. All other trunk groups should set to 100.

Population of this attribute will be done by TOPAS. If this position is unavailable, all the other TOPAS test positions are hunted. If no TOPAS test position is available, the call is routed to the TLWS. The test call type is found in the relation RLtm_tsc.

Note: The RC screen containing this field does not use 100, instead it uses a NULL string. A NULL string is saved internally as 100, and a value of 100 is displayed as a NULL string.

**Attribute:**
apt_inh
**Fullname:**
Inhibit automatic progression testing
**Attribute Description:**
Inhibit automatic progression testing. If ATTTN equals zero, then this attribute must be DBYES.

**Attribute:**
callmon_inh
**Fullname:**
Inhibit call monitor testing
**Attribute Description:**
Inhibit call monitor testing. If callmon_inh is set to DBYES, then call monitor testing is inhibited. If callmon_inh is set to DBNO, then call monitor testing is allowed.

The callmon_inh field must be set to DBYES when the apt_inh field is set to DBYES.

**Attribute:**
act_size
**Fullname:**
Actual size
**Attribute Description:**
The number of trunks in the trunk group.

**Attribute:**

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warnthresh

**Fullname:**

Threshold warning

**Attribute Description:**

The customer-selected ISAT trunk group warning lamp threshold.

When, and only when, the number of idle trunk member of a trunk group is less than or equal to this value, will the warning lamp be lit. This is true even if warnthresh equals or exceeds the size of the group.

**Attribute:**

out_sigtype

**Fullname:**

Out signal type

**Attribute Description:**

Address signaling type. A trunk group cannot be inserted with out_sigtype equal to DBTUP7, DBISUP7, or DBCCIS6 unless the global parameter, Glccs is not equal to CC_NOPLATFORM. When Glccs is not equal to CC_NOPLATFORM, then the switch is equipped with either a common network interface (CNI) ring or SS7 PSU signaling.

A trunk group cannot be inserted with the out_sigtype equal to DBCCIS6 if the SM global parameter, Glconfigname, is equal to D_BASIC. In international, a different, but similar dependency exists for the existence of the CCS transport mechanism hardware. An SES trunk group (servclass FC_SES) must have out_sigtype equal DBNOSIG. See RLfc_trunk relation for description on DBRP_TO under the attribute out_sigtype.

**Attribute:**

in_sigtype

**Fullname:**

In signal type

**Attribute Description:**

Address signaling type. A trunk group cannot be inserted with in_sigtype equal to DBTUP7, DBISUP7, or DBCCIS6 unless the global parameter, Glccs is not equal to CC_NOPLATFORM. When Glccs is not equal to CC_NOPLATFORM, then the switch is equipped with either a common network interface (CNI) ring or SS7 PSU signaling.

A trunk group cannot be inserted with the in_sigtype equal to DBCCIS6 if the SM global parameter, Glconfigname, is equal

to D_BASIC. In international, a different, but similar dependency exists for the existence of the CCS transport mechanism hardware.

**Attribute:**

satellite

**Fullname:**

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Satellite

**Attribute Description:**

Any trunk via satellite.

**Attribute:**

fenpa

**Fullname:**

Far end numbering plan area (NPA)

**Attribute Description:**

In general, the use of FENPA is dependent on the service class of the Trunk Group (See the FENPA attribute rules section for the specific trunk service classes for FENPA assignment). However the following general rules can be stated:

If the trunk TYPE is incoming and the office is a toll office assigned as an Originating Screening Office (OSO) or an Inward Wide Area Telephone Service (INWATS) office (that is Gl_oso = yes) or if the office is a Service Switching Point (SSP) office ,in general, FENPA must be assigned. Incoming Maintenance and other special trunk groups must not have FENPA assigned.

In general, for trunk TYPE of outgoing or two-way used for toll services, FENPA must be assigned.

In general, for other trunk TYPEs, FENPA is an optional attribute and should be set to the default value ("\0") to avoid executing unnecessary operational code on the switch.

**Attribute:**

fenxx

**Fullname:**

Far end office code (NXX)

**Attribute Description:**

Far end NXX. The fenxx attribute is the integer value of the NXX where the trunk originates and is optionally populated.

It is currently used when the office is a service switching point(SSP) for the query to the external service control point (SCP) database. The far end NXX is used for the calling party's number when the full ten digit automatic number identification (ANI) is not known (that is, traditional signaling or centralized automatic message accounting [CAMA] ANI failure). The far end NXX should only be populated when the NXX is representative of all incoming calls for this trunk group. If the far end NXX is the default value, then the query to the SCP database may contain only the calling party's NPA.

**Attribute:**

coin

**Fullname:**

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Coin station

**Attribute Description:**

This attribute indicates that all number services calls (service switching point feature) received over this trunk group are assumed to be from coin stations.

**Attribute:**

camaque

**Fullname:**

Centralized automatic message accounting

**Attribute Description:**

Trunk in CAMA (operator) keying trunk. This is the new addition to the already existing relation. This attribute should be populated with DBYES for CAMA operator keying trunk and with DBNO for other trunk type. This field must be set to DBNO for all CCS trunk types.

**Attribute:**

tgbl

**Fullname:**

Trunk group busy lamp

**Attribute Description:**

Indicates if a trunk group busy lamp is associated with this trunk group (DBYES) or not (DBNO).

If DBYES, verify the existence of the tuple in RLrt_tgbl such that key rlRT_TGBL.grp_num equals rlRT_TRKG.grpnum and rlRT_TGBL.pftype equals PFPHYS.

If htype is packet switched where rlRT_TRKG.htype equals RTH_PSUCD, then 'tgbl' must be DBNO.

**Attribute:**

tkgpmkby

**Fullname:**

Trunk group make busy

**Attribute Description:**

Indicates if trunk group make busy for private facility (SCCOF) is provided for this trunk group (DBYES) or not (DBNO).

If DBYES, verify if tuple exists such that:

```
key rlHUNTKEYS.port       = a valid port,
rlHUNTKEYS.hunt_type      = FCTRKGPMKBY,
rlHUNTKEYS.portgrp.grpnum = rlRT_TRKG.grpnum
```

or a tuple in rlISSCCOF exists such that:

```
rlISSCCOF.pftype          = PFPHYS,
rlISSCCOF.grpnum          = rlRT_TRKG.grpnum
```

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**Attribute:**
isdntgbwl
**Fullname:**
ISDN trunk group warning lamp
**Attribute Description:**
Indicates that this trunk group has one or more trunk group warning lamps on ISDN attendant consoles associated with it.

If DBYES, verify existence of tuple in RLtgtoatt such that key rlTGTOATT.grpnum equals rlRT_TRKG.grpnum and rlTGTOATT.pftype equals PFPHYS

**Attribute:**
term_sfg
**Fullname:**
Terminating simulated facility group
**Attribute Description:**
Indicates if this key grpnum is terminating to a simulated facility group (sfg) (DBYES) or not (DBNO).

If term_sfg is equal to DBYES, verify existence of a tuple in RLrt_gpsf with this key grpnum as the key.

**Attribute:**
nlactive
**Fullname:**
Nonusate trunk scan (NUTS)/locked-up trunk scan (LUTS) activated
**Attribute Description:**
NUTS/LUTS active flag. Should be populated with DBYES if this trunk group is to be scanned for NUTS/LUTS. Otherwise, should be DBNO (default). If nlactive equals DBYES, there must be a tuple in RLappfgrp with RLrt_trkg.grpnum equal to RLappfgrp.grpnum, RLappfgrp.pftype equal to MSTRKG, and RLappfgrp.nlactive equal to DBYES.

**Attribute:**
sht_thres
**Fullname:**
Short holding time (SHT) threshold
**Attribute Description:**
SHT threshold. Valid SHT threshold values are 0 to 160 seconds by increments of two seconds. A value of zero (default) indicates SHT monitoring is not active on this trunk group.

Dependencies: If sht_thres is greater than zero, there must be a tuple in RLappfgrp with RLrt_trkg.grpnum equal to RLappfgrp.grpnum, RLappfgrp.pftype equal to MSTRKG, and RLappfgrp.shtactive equal to DBYES

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**Attribute:**
shtcallcnt
**Fullname:**
Short holding time call count
**Attribute Description:**
SHT call count threshold. Valid values are 2 to 30 calls by increments of two calls when the value of the sht_thres field is greater than zero. If the sht_thres field is zero, then this field should also be zero (default).

**Attribute:**
lht_thres
**Fullname:**
Long holding time (LHT) threshold
**Attribute Description:**
LHT threshold. Valid LHT threshold values are zero to ten hours by increments of one hour. A value of zero (default) indicates LHT monitoring is not active on this trunk group. If lht_thres is greater than zero, there must be a tuple in RLappfgrp with RLrt_trkg.grpnum equal to RLappfgrp.grpnum, RLappfgrp.pftype equal to MSTRKG, and RLappfgrp.lhtactive equal to DBYES.

**Attribute:**
vpa_rate
**Fullname:**
Voice path assurance (VPA) rate
**Attribute Description:**
Set to CCPCT0 if this CCS trunk group will never do the VPA test. Set to CCPCT12_5 if the VPA test is done 12.5% of the time. Set to CCPCT50 if the VPA test is done 50% of the time. Set to CCPCT100 if the VPA test is done 100% of the time. Must be CCPCT0 for non-CCS trunk groups.

Note: If vpa_rate does not equal CCPCT0, then the SMs containing trunks from this trunk group must have DSU2-LDSUF service groups equipped with tone transceivers (RLcktdata.type equal to PCT_XCVR). This is an updateable field for CCS trunks.

**Attribute:**
dig_trunk
**Fullname:**
Digital trunk
**Attribute Description:**
This attribute is set to DBNO when the datarate attribute of RLrctgrprk is DBDATA_NULL. It is set to DBYES for all other trunk groups.

**Attribute:**

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dpc

**Fullname:**

Destination point code (DPC)

**Attribute Description:**

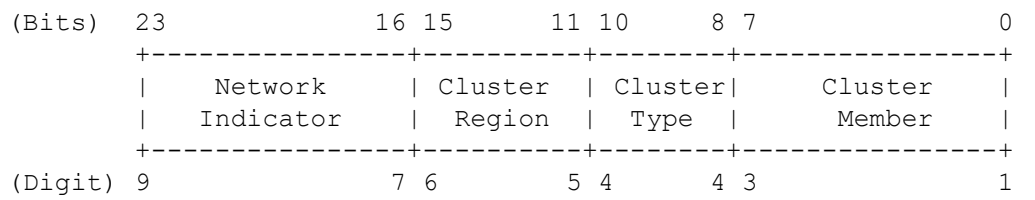
Destination point code. The DPC indicates the signaling point for the far end office, except for inter-module trunks (IMT) which set the DPC equal to a 'pseudo' point code value that indicates the SM numbers on which the inter-module trunk terminates (that is, near end SM and far end SM). This attribute is used only for CCS trunk groups.

There are three point code formats that are supported:

1. AT&T format,
2. non-AT&T format,
3. inter-module trunk (IMT)
4. Single SM Loop Around Trunk (Single SM IMT)

These are distinguished as described in the following.

For the AT&T Communications network, a point code will be assigned by the CCIS network administration center (CNAC) for each switch. This will be a string of nine decimal digits (the external format). The resultant number will be built as a hex value. The following format applies:

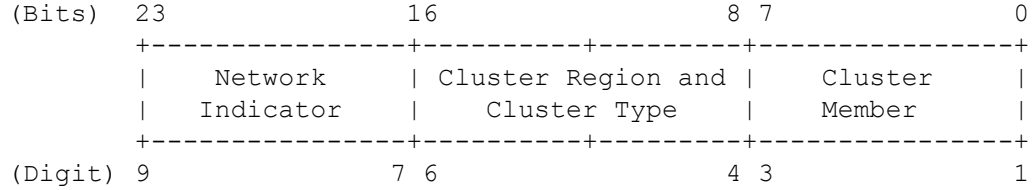



The nine digit externally defined point code (whether DPC or OPC) is converted as:

(network indicator 2 ^16) +
(cluster region 2^11) +
(cluster type 2^8) +
cluster member

The network indicator (NID) is always 254 (decimal) for the AT&T Communications network and 236 for the UNITEL network.

For other networks using the T1 CCS standards for system 7 (that is RBOCS, et. al.) the following format applies:

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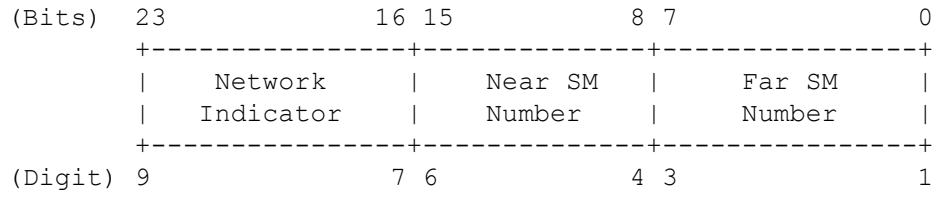
The cluster region and type can be anything but zero.

The nine digit externally defined point codE (whether DPC or OPC) is converted as:

(network indicator 2 ^16) +
(cluster region and type 2^8) +
(cluster member)

The network indicator will never be 254 for non-AT&T Communications offices, however, non-AT&T offices need to provision trunks to AT&T offices which requires that the dpc begin with 254 and be interpreted in ANSI(R) format, and an NID of 236 will never be used for a non-UNITEL switch. Also '000' may only be assigned when the trunk is an inter-module trunk (see the following IMT layout).

The format of the DPC for an inter-module trunk (IMT) is different than the format used for inter-office CCS trunks, and is defined as follows:




where:
Network indicator = 000
Near SM number = SM number which terminates the near end of the inter-module trunk (that is, the value of the attribute gport.module).

Range: One is less than or equal to the SM number which is less than or equal to 192.

Far SM number = SM number which terminates the far end of the intermodule trunk connected to the 'near SM', and which has the same circuit identification code (attribute 'cic').

Range: One is less than or equal to the SM number which is less than or equal to 192.

The following restrictions apply:

The near SM number cannot equal the far SM number.

The nine digit externally defined point code is converted as follows:

(Near SM number 2^8) + (Far SM number)

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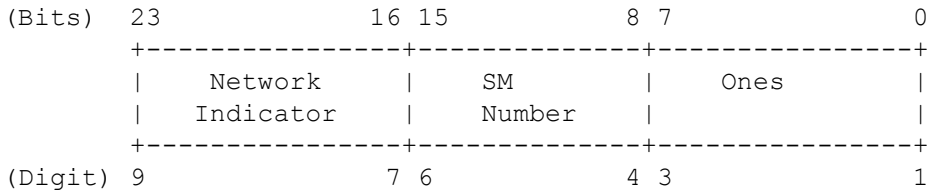
Example: The nine digit externally defined DPCs for an intermodule trunk with CIC = 'X' between SMs 50 and 99 on a switch with OPC = 'A' would be populated as follows:

| DPC | OPC | CIC | GPORT |
|---|---|---|---|
| 000050099 | A | X | SM 50, Port Y |
| 000099050 | A | X | SM 99, Port Z |

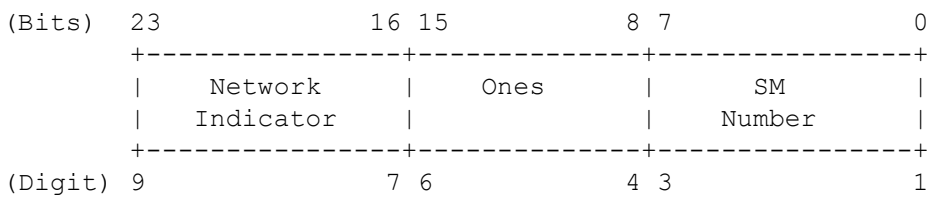
where:
port Y - The port number of the trunk group member on SM 50
port Z - The port number of the trunk group member on SM 99.

Populate DPC with 0 for non-CCS7 trunk groups (that is, trunk groups that do not have in_sigtype equal to DBISUP7 or out_sigtype equal to DBISUP7).

The format of the DPC for a Single SM loop around trunk (Single SM IMT) is as follows:




OR




where:
Network indicator = 000
SM number = SM number which terminates the ends of the inter-module trunk (that is, the value of the attribute gport.module).

Ones = 0xff = 255 decimal (An indication that the loop around trunk is on a single SM)

The following restrictions apply:

The nine digit externally defined point code is converted as follows:

(SM number 2^8) + (255)
OR

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```
(255 2^8) + (SM number)

Example:  The nine digit externally defined DPCs for a single SM
loop around intermodule trunk with CIC = 'X' on SM 50 on a
switch with OPC = 'A' would be populated as follows:

DPC         OPC CIC   GPORT
---------   --- ---   ---------
000050255    A   X    SM 50, Port Y
000255050    A   X    SM 50, Port Z

where:
port Y  - The port number of one end of the Single SM IMT
              trunk group member on SM 50.
port Z  - The port number of the opposite end of the Single SM IMT
              trunk group member on SM 50.


The format used for entry of the DPC on the recent change and
ODA forms depends on whether the switch is in the AT&T
network or not and may further depend on the DPC value itself.
Determination of the switch being present in the AT&T network
may be done by examining the value stored in GLopc for a CNI
signaled trunk group or the value stored in RLgsm_opc.opc
for a PSU signaled trunk group.  The high order 8 bits of
the 24 bit point code (GLopc or RLgsm_opc.opc)
are examined and if this value does not equal 254 or 236 then
the format used for entry of DPC is the T1 CCS standard format
shown previously.  Otherwise, further examination of the DPC
itself as entered on the screen is needed.

If the NID of the DPC is 254 or 236, the AT&T format must
be used for the DPC being entered only if it matches the
NID of the office OPC (Glopc) or RLgsm_opc.opc.

Otherwise, the format used for entry of DPC is the T1 CCS standard
format shown previously.
```

## 6. RT_TRKG Population rules continued.

**Attribute:**

opc

**Fullname:**

Originating point code

**Attribute Description:**

This attribute is used only for CCS trunk groups The originating point code assigned to this office for this trunk group. The format and assignment rules are the same as for DPC.

The format used for entry of the OPC on the RC and ODA forms depends on whether the switch has on OPC in the AT&T network or not. This is determined by examination of the high order 8 bits of 24 bit point code stored in Glopc for a CNI signaled trunk group or the high order 8 bits of 24 bit RLgsm_opc.opc for a PSU signaled

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trunk group. If this value is 254 or 236 (from high order 8 bits of a 24 bit Glopc or 8 bits of RLgsm_opc.opc), the format used for entry of OPC is the AT&T format shown previously.

For any other value of the high order 8 bits of a 24 bit Point Code, the T1 CCS standard format should be used for entry of OPC from the Recent Change and ODA forms.

For network interconnect (NI) LATA routing feature, if the office is equipped with CNI in the AT&T Network Services Division (ATT-NSD) network, the OPC for all the CCS7 trunk should match either the true office point codes or one of the alias point codes when the feature is used (that is, alias point codes are populated).

If the OPC and DPC are nonzero values, then they cannot be equal to each other.

**Attribute:**
pci
**Fullname:**
Point code index
**Attribute Description:**
This attribute is used only for CCS trunk groups. This field contains the unique value stored in RLLAB7_PCI for the DPC and OPC associated with this trunk group.

**Attribute:**
q_alwd
**Fullname:**
Queuing allowed
**Attribute Description:**
Indicates whether queuing is allowed on this group.

If q_alwd is DBYES, then qfid must contain a valid queuing feature with modular features type MFQU, and a tuple in RLfacname with RLfacname.facid equal to qfid and RLfacname.subclass equal to SCL_FEAT. Also type must be RTTWOWAY or RTOUTGO. Also if q_alwd is DBYES the servclass found in relation RLrctgrprk must be FC_PF, FC_PFITT, FCEDSL, FC_RAFDTA or FC_PFLASH. If RLrctgrprk.servclass is equal to FCEDSL then RLfc_trunk.ln_type must not be LN_NULL. If q_alwd is DBYES and module does not equal zero, then the qmodule and module must be equal. If pri_spl_dly sets to DBYES, there must exist a RLqu_pri tuple in queuing SM where RLqu_pri.portgrp.grpnum equals RLrt_trkg.grpnum and RLqu_pri.portgrp.grptype equals TM_QTRK. If it is OFFHOOK queue and spl_dlytreat or pri_spl_dly set to DBYES, there must exist a RLqu_dly tuple in queuing SM where RLqu_dly.portgrp.grpnum equals RLrt_trkg.grpnum and RLqu_dly.portgrp.grptype equals TM_QTRK. If it is RGBK queue and pri_spl_dly set to DBYES, there must exit a RLqu_dly tuple in queuing SM where RLqu_dly.portgrp.grpnum equals RLrt_trkg.grpnum

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and RLqu_dly.portgrp.grptype equals TM_QTRK.

**Attribute:**
qmodule
**Fullname:**
Queuing module
**Attribute Description:**
Module on which this group's queue resides.

Verify qmodule exists in RLmodatt.mod. If q_alwd is DBYES then qmodule must be greater than zero.

If qmodule changes from one SM to another, then tuple changes may be needed in RLms_qan.sm_id and .gp_id if measurements are enabled for the RLrt_trkg.grpnum.

**Attribute:**
rqsize
**Fullname:**
Routine queue size
**Attribute Description:**
Default parameter routine queue size.

The rqsize + pqsize attributes must be <= 255. All (qu_ogtos.rqsize + qu_ogtos.pqsize + qu_os.qbsize + qu_os.qexsize) attributes tuples already assigned to this particular SM must be <= 255 (SM) or <=4000 (SM-2000).

NOTE: This check is being implemented in RLqu_os and RLqu_ogtos.

If q_alwd is DBYES, then rqsize must be greater than 0.

**Attribute:**
pqsize
**Fullname:**
Priority queue size
**Attribute Description:**
Default parameter routine queue size.

See rules for rqsize

**Attribute:**
rou_q
**Fullname:**
Routine type
**Attribute Description:**
Routine section type.

If rou_q is Q_RGBK then type must be RTOUTGO.

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**Attribute:**
pri_q
**Fullname:**
Priority queue
**Attribute Description:**
Indicates if this queue has a priority section.

If pri_q equals DBYES, then pqsize must be greater than zero and q_alwd must be DBYES.

**Attribute:**
post_q_treat
**Fullname:**
Post queue treatment
**Attribute Description:**
Post queue treatment (automatic route selection-D [ARS-D],MQII). When a call overflows a modular queue and is not queued for given the facility, the call will be re-routed only if the call is an ARS-D call and QR_ALTR is specified, or else the call is given reorder tone and disconnected.

When qfid is greater than zero, then QR_NULL is not allowed.

**Attribute:**
enq_act
**Fullname:**
Enqueuing active
**Attribute Description:**
Enqueuing active. (Note: This attribute is for the interface to the facilities management capability.)

**Attribute:**
qfid
**Fullname:**
Queue feature ID
**Attribute Description:**
Queuing feature ID. A tuple in RLfacname with RLfacname.facid equal to qfid and RLfacname.subclass equal to SCL_FEAT. If qfid is greater than zero, then q_alwd must be DBYES. If qfid is greater than zero then RLqu_tcfdf.grptyp must be TM_QTRK where RLQU_TCFDF is keyed by qfid.

**Attribute:**
dsnarc_id
**Fullname:**
Alternate route cancellation (ARC) ID
**Attribute Description:**
ID of the ARC control table entry (that is, relation RLnmdsnarc)

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associated with this trunk group. The ARC ID of this trunk group is the ARC ID of the office to which this trunk group terminates.

If dsnarc_id does not equal zero, then verify the existence of a tuple in RLnmdcofc containing this value. If Gldsnopt is equal to DBNO, then dsnarc_id must equal zero.

**Attribute:**
shuttle_check
**Fullname:**
Shuttle check
**Attribute Description:**
This item is set to DBYES when an office wishes to verify that the trunk group being terminated to is not the same as the one being originated on. This is used in DSN switches on trunk groups between switches that support dual homed PBXs or end offices. It is allowed for use in the public network.

If shuttle_check equals DBYES, then htype must be one of the following:

RTH_FWDLIN,
RTH_BWDLIN,
RTH_LGFWD,
RTH_LGBWD,
RTH_PRFLIN,
RTH_PRBLIN,
RTH_PLFLIN,
RTH_PLBLIN.

**Attribute:**
calbycal
**Fullname:**
Call by call
**Attribute Description:**
Use DBYES if this is an EDSL call by call trunk group, otherwise use default DBNO. If grpnum exists in RLedsltrkg, then RLedsltrkg.calbycal must have same value as RLrt_trkg.calbycal. If RLrt_trkg.calbycal = DBYES, a tuple must exist for RLedsltrkg.grpnum. For definition of call by call and description of EDSL trunk groups, see population rules in RLedsltrkg. Also see RLrt_trkg section for EDSL trunk groups.

**Attribute:**
tera_action
**Fullname:**
Trunk error analysis (TERA) action
**Attribute Description:**
TERA recovery action. This attribute identifies the action to be taken by TERA when a trunk reaches any of its error thresholds. There are two error thresholds: the quick check threshold, which is recent changeable, and the peer group

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threshold which is a function of the number of members in a trunk group. Refer to the RC view line and trunk test, trunk error analysis. This field must be set to one of the following:

TMTNULL - Allowed if atttn is zero or greater than zero but only if specified (never the default). This value indicates that the trunk implicated when a threshold is reached may have no action taken; no report, no test and no removal.

TMTREPT - Allowed if ATTTN is zero or greater than zero. This is the default if ATTTN is zero and tera_action was not specified (NS). It indicates that no recovery action beyond reporting that a trunk has received an excessive number of machine detected inter-office irregularities (MDIIs) will take place.

TMTTEST - Allowed only if ATTTN is greater than zero. This is the default if ATTTN is greater than zero and tera_action was NS. This value indicates that an operational test may be performed when a trunk reaches a threshold of MDIIs.

TMTRMV - allowed if ATTTN is zero or greater than zero but only if specified (never the default). This value indicates that the trunk implicated when a threshold is reached may be removed without performing an operational test.

The following summerizes the population rules state previously:

```
-----------------------------------------------------------------
if atttn = 0 & tera_action = NS    then tera_action = TMTREPT
if atttn = 0 & tera_action = TMTREPT then tera_action = TMTREPT
if atttn = 0 & tera_action = TMTRMV  then tera_action = TMTRMV
if atttn = 0 & tera_action = TMTNULL then tera_action = TMTNULL
-----------------------------------------------------------------
if atttn > 0 & tera_action = NS    then tera_action = TMTTEST
if atttn > 0 & tera_action = TMTTEST then tera_action = TMTTEST
if atttn > 0 & tera_action = TMTREPT then tera_action = TMTREPT
if atttn > 0 & tera_action = TMTRMV  then tera_action = TMTRMV
if atttn > 0 & tera_action = TMTNULL then tera_action = TMTNULL
-----------------------------------------------------------------
```

**Attribute:**
imt
**Fullname:**
Inter-module trunk group
**Attribute Description:**
If this trunk group is an inter-module trunk group, then 'imt' is DBYES, otherwise, 'imt' is DBNO.

**Attribute:**
rlt_type
**Fullname:**
Release link trunk (RLT) type
**Attribute Description:**

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This attribute indicates if the trunk group contains RLTs, and if so, whether the type of hold is permanent or temporary.

This attribute must be set to RLT_NONE unless the trunk group is:

1. A non-ISDN senderized tie trunk incoming to the main and two-way from the branch with a service class of flash repeating:

   **** AT THE MAIN *****

   a ) RLfc_porttyp.servclass = FC_PFLASH
   b ) RLrctgrprk.brc = DBYES
   c ) RLrt_trkg.type = RTINCOM
   d ) RLrt_trkg.out_sigtype = DBNOSIG
   e ) RLfc_trunk.out_startsig = FCSSNULL
   f ) RLfc_trunk.cut_thru = DBNO

   *** AT THE BRANCH *****

   a ) RLfc_porttyp.servclass = FC_PFLASH
   b ) RLrctgrprk.brc = DBYES
   c ) RLrt_trkg.type = RTTWOWAY
   d ) RLrt_trkg.in_sigtype = DBTT
   e ) RLfc_trunk.in_startsig = FCDIALTONE
   f ) RLfc_trunk.cut_thru = DBNO

2. A non-ISDN senderized foreign exchange multi-line hunt trunk incoming to the main and outgoing from the branch:

   **** AT THE MAIN - FX TRUNK APPEARANCE *****

   a ) RLfc_porttyp.servclass = FC_PFLASH
   b ) RLrctgrprk.brc = DBYES
   c ) RLrt_trkg.type = RTINCOM
   d ) RLrt_trkg.in_sigtype = DBNOSIG
   e ) RLrt_trkg.out_sigtype = DBNOSIG
   f ) RLfc_trunk.in_startsig = FCDIRCON
   g ) RLfc_trunk.out_startsig = FCSSNULL
   h ) RLfc_trunk.cut_thru = DBNO
   i ) RLfc_porttyp.lp_type = PCFXGRND

   *** AT THE BRANCH -- FX LINE APPEARANCE ****

Refer to the population rules for RLrt_mhg.G.

**Attribute:**
rlt_flash
**Fullname:**
Release link trunk flash

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**Attribute Description:**

This attribute indicates whether or not the branch location can send a flash to the main switch over the RLT during added party disconnect.

This attribute cannot be DBYES unless rlt_type is RLT_PERM.

**Attribute:**

pri_bchan

**Fullname:**

PRI B-channel

**Attribute Description:**

Indicator used to identify a PRI B-channel trunk group.

DBYES: PRI B-channel trunk group
DBNO: Non PRI B-channel trunk group

**Attribute:**

enq_ln

**Fullname:**

Leased network critical queuing indicator

**Attribute Description:**

Leased network critical queuing indicator. Indicates whether or not an outgoing trunk group will support critical user queuing. This is used in call processing only when the incoming trunk is defined as a leased network trunk.

- DBYES indicates that a leased network incoming trunk may queue for this trunk only if the incoming trunk is defined as a leased network critical user (that is, facility restriction level [FRL] = 14) and RLrt_trkg.q_alwd and RLrt_trkg.enq_act are both equal to DBYES.

- DBNO indicates that all leased network incoming trunks may queue for this trunk if RTrt_trkg.q_alwd and RLrt_trkg.enq_act are both equal to DBYES.

**Attribute:**

ni_annc

**Fullname:**

Network interconnect non-interworking announcement indicator

**Attribute Description:**

The ni_annc attribuite is used for control if tone/announcement is applied to a call after the vacant code announcement (VCA) MDII is printed on an ISUP7 trunk with service class of FC_IEC. A terminating access tandem or a terminating end office which is directly connected to an inter-exchange carrier (IXC) will perform called number screening, NPA and/or NPA-NXX analysis) to determine if the call can be routed to a valid

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destination.

If the previously mentioned screening fails, a VCA MDII is printed and the office must either
1. Return a release message with cause=3 no route to destination or,
2. Provide an appropriate tone or announcement.

The ni_annc attribute is checked after the previously mentioned screening fails only if the IAM forward call indicator shows that ISUP7 trunks were used all the way. The ni_annc attribute does not apply if the call route consists of a combination of ISUP protocol trunks interworked to other signal protocol trunks (that is, multi-frequency [MF]).

The value of this parameter should be optioned by the customer to one of the following values.

DBYES: A tone/announcement should be provided to the preceding exchange.

DBNO: A release message should be sent to the preceding exchange.

**Attribute:**
niiw_annc
**Fullname:**
Network interconnect interworking announcement indicator
**Attribute Description:**
The niiw_annc attribute is used to control if tone/announcement is applied to a call after the VCA MDII is printed on an ISUP7 trunk with service class of FC_IEC. A terminating access tandem or a terminating end office which is directly connected to an inter-exchage carrier (IXC) will perform called number screening, NPA and/or NPA-NXX analysis to determine if the call can be routed to a valid destination.

If the previously mentioned screening fails, a VCA MDII is printed and the office must either
1. Return a release message with cause=3 no route to destination or,
2. Provide an appropriate tone or announcement.

The niiw_annc attribute is checked after the previously mentioned screening fails only if the forward call indicator shows that the call route consists of a combination of ISUP protocol trunks interworked to other signal protocol trunks (that is, MF). [NI 2.0 SSD]

The value of this parameter should be optioned by the customer to one of the following values.

DBYES: A release message should be sent to the preceding exchange.

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DBNO: A tone/announcement should be provided to the preceding exchange.

**Attribute:**

ctrl_type

**Fullname:**

Control type (transfer prohibit action)

**Attribute Description:**

The ctrl_type attribute is used when an outgoing ISUP trunk is selected to route out of an office but the associated Signaling System 7 (SS7) dynamic routing to the far point code is marked transfer prohibited (TFP). Before attempting to re-route on the next route, ctrl_type will be checked to determine whether the current trunk should be skipped or if the call should be canceled.

For trunks which use ISUP7 as their outgoing signaling type, ctrl_type must be set to either 'skip' (DBSKIP) or 'cancel' (DBCANCEL). For trunks which do not use ISUP7 as their outgoing signaling, ctrl_type must be left blank, (DBNULLCTRL).

The setting for ctrl_type should be based on the network topology. The ultimate decision for setting ctrl_type is up to the data administrator. Several possible scenarios are described here and can be used as guidelines when determining how ctrl_type should be set.

Scenario #1:
---
If the far office connected to a trunk group only uses ISUP trunks but the office is currently not accessible using ISUP trunks, (due to a failure), there is no reason to reroute calls since the far switch cannot accept incoming calls. Rerouting such calls could possibly cause congestion on the indirect routes. Under these circumstances, the ctrl_type field should be set to DBCANCEL.

Scenario #2:
---
If there are alternate routes available which do not use ISUP signaling, then ctrl_type should be set to DBSKIP. Although the far office is not accessible using ISUP trunks, non-ISUP trunks may be able to reach the far office and complete the call.

Scenario #3:
---
If there are dual tandems connected to a far office, ctrl_type should be set to DBSKIP. Although the first tandem may not be able to reach the far office via ISUP, the second office may be able to. Or, the second office may have non-ISUP signaling which is capable of routing the traffic.

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The value of ctrl_type must be set to one of the three values listed in the following.

| | |
|---|---|
| DBNULLCTRL | This must be used for all trunks which do not use ISUP7 as their outgoing signaling type. These trunks will not check this field since it only applies to ISUP outgoing trunks. |
| DBSKIP | Skip this trunk and attempt a re-route on the alternate route. |
| DBCANCEL | Do not attempt any reroutes. Cancel the call. |

**Attribute:**
cama_psap
**Fullname:**
Centralized automatic message accounting - public safety answering point

**Attribute Description:**
The cama_psap attribute is a bool used to specify if a trunk group is a CAMA PSAP trunk group.

**Attribute:**
bcl_assign
**Fullname:**
Bulk calling line identification (BCLID) assign
**Attribute Description:**
This boolean attribute specifies whether BCLID feature is assigned to this trunk group.

**Attribute:**
npt
**Fullname:**
Numbering plan type
**Attribute Description:**
This identifies the numbering plan type (NPT) for the direct connect DN, if the direct connect DN field is populated. The NPT is used to identify the numbering plan as a private numbering plan (APN), as the North American Numbering plan (NANP), or as an international numbering plan (INTL). This field will be used by the public and private switched networks to identify the type of translation to apply to the address digits.

**Attribute:**
speech
**Fullname:**

Speech

**Attribute Description:**

This attribute is used to indicate if speech treatments have been assigned to the trunk. ISDN routing and digit analysis, requires 'speech' and '3.1kHz audio' bearer capability calls be routed differently. '3.1kHz audio' calls equates roughly to voiceband data (facsimile, modems, etc.), where it is important to maintain the absolute integrity of the bit stream. No speech treatments, such as time assignment speech interpolation (TASI) and low bit rate voice (LBRV) encoding, should be applied to a '3.1kHz audio' call. This field should be set to DBYES by the switch personnel when the trunk group has speech treatments assigned so that '3.1 kHz audio' calls will not be routed over the speech trunk group. No checks can be made to verify that the trunk group actually has speech treatments when this field is set to DBYES by the switch personnel, but setting the field to DBYES will restrict the trunk group to only carrying 'speech' calls.

**Attribute:**

wb_rate

**Fullname:**

Wideband rate for NxDS0 trunk group

**Attribute Description:**

The wb_rate attribute is used to identify the wideband rate supported by the trunk group. The wb_rate is used to identify wideband capable trunk groups. The attribute wb_rate is included in this relation because wideband trunk groups are globally hunted. The valid enumerations of wb_rate are:

WB_NULL for trunk groups that cannot support wideband calls,
WB_384K for trunk groups that can only support 384 kb/s wideband calls or DS0 calls,
WB384_1536K for trunk groups that can only support 384 kb/s, 1536 kb/s, or DS0 calls,
WB_1536K for trunk groups that can only support 1536 kb/s wideband calls or DS0 calls,
WB_MR for trunk groups that can only support multi-rate wideband calls or DS0 calls.

The wb_rate attribute is also stored in RLfc_trunk. The values of RLfc_trunk.wb_rate and RLrt_trkg.wb_rate must be equal for the same trunk groups. Cross-checks to enforce this condition can be found in RLfc_trunk.p

**Attribute:**

wbtsa_type

**Fullname:**

Wideband time-slot allocation type

**Attribute Description:**

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The attribute wbtsa_type is used to identify the type of time-slot assignment used by wideband trunk groups. A list of the valid enumerations and their meanings follows.

| | |
|---|---|
| RTWBNULL | If the trunk group is wideband, this value means the fixed assignment scheme is used. If the trunk group is not wideband, the attribute does not apply. |
| RTWBFLOAT | The floating assignment scheme is used by a trunk groups which have this wbtsa_type value. |
| RTWBFLEX | The flexible assignment scheme is used by trunk groups which have this wbtsa_type value. |

This field is also stored in the RLfc_trunk.wbtsa_type field. Corresponding tuples in RLfc_trunk and RLrt_trkg must have the same value for wbtsa_type. The attribute wbtsa_type is included in RLrt_trkg because wideband trunks are hunted globally by the CMP.

For wideband calls, fixed time-slot assignment requires wideband calls start on a specific channel: 1, 7, 13, or 19 for N = 6 calls. N = 24 calls must start with time-slot 1 and use all 24 members within a trunk block. N must be 6 or 24 for fixed wideband time-slot assignment, any other value will result in the call being killed. In addition to starting on certain channels, fixed time-slot assignment requires wideband calls use contiguous channels, within the same SM, within the same trunk group, within the same DFI and within the same trunk block.

Floating time-slot assignment allows calls to start on any channel as long as all of the channels assigned to the call are contiguous, within the same SM, within the same trunk group, within the same DFI and within the same trunk block.

Flexible time-slot assignment allows the channels associated with a call to be non-contiguous. The channels must still, however, be within the same SM, within the same trunk group, within the same DFI and within the same trunk block.

**Attribute:**
dcs_retry
**Fullname:**
Autoplex(R) retry indicator
**Attribute Description:**
For Autoplex(R) two-way trunks, indicates whether or not a retry should be attempted.

**Attribute:**
dcs_trk

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**Fullname:**
Autoplex(R) trunk indicator
**Attribute Description:**
Indicates whether or not a trunk is Autoplex(R), including public switched telephone network (PSTN) trunks.

**Attribute:**
dcs_digcnt
**Fullname:**
Autoplex(R) incoming digit count
**Attribute Description:**
For Autoplex(R) dual tone mulit-frequency (DTMF) trunks, indicates the number of incoming digits.

**Attribute:**
apx_notify
**Fullname:**
Executive control processor (ECP) authorization indicator
**Attribute Description:**
Indicates whether or not authorization from the ECP is required.

**Attribute:**
servtype
**Fullname:**
Service Type for a Speech Handler Trunk Group
**Attribute Description:**
Indicates the service type associated with a Speech Handler trunk group

**Attribute:**
raf_mbrs
**Fullname:**
Number of members in the trunk group that are from RAFs.
**Attribute Description:**
Announcement trunk groups may be composed of both RAF and SAS members. This attribute is used to keep count of the number of RAF members in the trunk group.

**Attribute:**
staggered
**Fullname:**
Cascading announcement.
**Attribute Description:**
Indicate whether this trunk group is for 15A cascading announcement. For this attribute to be set to DBYES, SFID118 must be DBYES.

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**Attribute:**
stre_ip
**Fullname:**
STOR Intelligent Peripheral Trunk Group.
**Attribute Description:**
Indicates whether the Trunk Group is connected to an Intelligent Peripheral. Used by ASP feature AIN 0.2 SSP Send To Outside Resource (STOR). SFID229 must be turned on before this attribute can be set to DBYES.

**Attribute:**
stre_measure
**Fullname:**
STOR Intelligent Peripheral Trunk Group Measurement Indicator.
**Attribute Description:**
Indicates whether to do measurements on the Trunk Group Used by ASP feature AIN 0.2 SSP Send To Outside Resource (STOR). The duration of the STOR 5ESS(R)-2000 switch to IP connection is measured. SFID229 must be turned on, stre_ip must be DBYES and the number of IP trunks marked for measurement must be less than 25 before this attribute can be set to DBYES. The count of IP trunks marked for measurement is maintained in Glipcnt.

**Attribute:**
ffcf1
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description.

**Attribute:**
ffcf2
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description.

**Attribute:**
ffcf3
**Fullname:**
Boolean reserved for future field feature
**Attribute Description:**
See fullname description.

**Attribute:**
ffcf4
**Fullname:**

Boolean reserved for future field feature

**Attribute Description:**

See fullname description.

**Attribute:**

inh_jip

**Fullname:**

Inhibit jurisdiction information parameter signaling indicator

**Attribute Description:**

For local number portability, when set to DBYES, this attribute indicates that the jurisdiction information parameter may not be signaled. This attribute only has meaning for an ISUP trunk.

**Attribute:**

sig_pnum

**Fullname:**

Signal ported number indicator

**Attribute Description:**

For local number portability, when set to DBYES, this attribute indicates that the dialed number, instead of the location routing number, will be signaled in the called party number. This attribute only has meaning for an ISUP trunk.

**Attribute:**

isg

**Fullname:**

Information Service Gateway

**Attribute Description:**

For Information Service Gateway, when set to DBYES, this attribute indicates that this is ISG trunk.

**Attribute:**

cnaopt

**Fullname:**

Connecting Network AMA Option

**Attribute Description:**

This attribute will be used to contain the connecting network access(CNA) AMA option. The option can be set to not generate CNA AMA records, always generate CNA AMA records, or generate a CNA AMA record when a LNP query is made.

**Attribute:**

psu_mod

**Fullname:**

PSU Module

**Attribute Description:**

This attribute defines whether the CCS signaling platform is CNI or PSU. If CNI is used for CCS

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signaling, psu_mod is set to zero; if PSU-based CCS signaling is used, psu_mod is set to the GSM number.

**Attribute:**
mint_act
**Fullname:**
MINT active
**Attribute Description:**
Used to flag if MINT signaling is active

**Attribute:**
outage_rpt
**Fullname:**
outage report
**Attribute Description:**
Indicates that when the trunk group is 100% out-of-service the outage should be reported by the Enhanced Automatic Maintenance Limit capability.

**Attribute:**
imm_start_ann
**Fullname:**
immediate start announcement
**Attribute Description:**
Indicates that this trunk group uses Immediate Start Announcements (17A announcement machine).

**Attribute:**
linebusy
**Fullname:**
Line Busy indicator
**Attribute Description:**
Indicates whether or not Line Busy treatment should be given to the call regardless of the treatment defined at the end of the route list that leads to this trunk group. If this switch has a PBX connected by a PRI/PF trunk that has the "linebusy" indicator set and RTA cannot find an idle trunk to the PBX, it will change the MGRT_FAIL reason sent to the OTP from REORDER to LINEBUSY. This will prevent the OTP from releasing to the upstream switch with data that would cause the upstream switch to Reroute On Release.

**Attribute:**
rtcd_req
**Fullname:**
Real Time Call Details Required

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**Attribute Description:**
This attribute defines whether RTCD Records will be generated for this trunk group.

**Attribute:**
enh_psap_sig
**Fullname:**
Enhanced Public Safety Answering Point
**Attribute Description:**
This attribute is used to indicate that a trunk designated as a CAMA PSAP is using enhanced CAMA signaling. The cama_psap attribute must also be DBYES if this attribute is DBYES. This attribute can only be set to DBYES when the secured feature FGD Interface to E911 has been purchased ( SFID 299 is active ). SFID 299 is dependent on SFID 61.

**Attribute:**
tendigonly
**Fullname:**
E911 CAMA PSAP outpulse 10 digit only indicator
**Attribute Description:**
This attribute contains the E911 CAMA PSAP outpulse 10 digit only indicator. The enh_psap_sig attribute must be DBYES if this attribute is DBYES. When the tendigonly attribute is DBYES, only 10 digits will be outpulsed to the PSAP. If the tendigonly attribute is DBNO and enh_psap_sig attribute is DBYES, 20 digits will be outpulsed to the PSAP.

**Attribute:**
calea
**Fullname:**
Communications Assistance For Law Enforcement Act.
**Attribute Description:**
Indicates that the trunk group has been reserved for the CALEA feature.

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# RT_WBRTX

## 1. Description

Wideband (NxDS0) route index.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected tuples in relation | 125 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
RT_WBRTX    relid = 1928  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     route_x     DMRTEIDX     (ushort: 14)     <--- key
     wb_rtx      DMRTEIDX     (ushort: 14)
 (a) wb_rate     DMWB_RATE    (enum: 3)     <--- key
         User, Compacted and Stored Tuple Layout   RT_WBRTX
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |   |                           |   |
  0 |           route_x             |***|            wb_rtx            |***|
    |---------------+---------------+---------------+---------------|
    |     |                                                         |
  4 |  a  |*********************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLrt_wbrtx

**Relation Description**
Wideband (NxDS0) alternate route index.

This relation is used to obtain the route index for wideband calls. RTA normally gets the route index in the RT_SCRNING state from either the RLrt_scrning relation or Digit Analysis. The route index is then used in the RT_RTING state.

For wideband calls, however, the RT_SCRNING state will check the originating tcm.bear_cap. If the call is wideband, the RT_WBRTING state will be called. RT_WBRTING will combine the original route index with the incoming wideband rate to form a key to read RLrt_wbrtx. The new route index (wb_rtx) is then used in the RT_RTING state to route the call.

***NOTE:*** Note: This relation was modeled after the RLrt_dtrtx relation which is used to route circuit-switched DS0 data calls. A chart which graphically shows how the RLrt_wbrtx relation is used is show here:

```
perform digit analysis
on dialed digits---------->screening------->normal route index
x
RLrt_dtrtx
route_x rate data_rtx
x      null    aa
x      56R     a
```

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```
x      64R     b
x      64C     c
normal route index--->RLrt_dtrtx
                mapping
       x------------------------->speech trk grp selection list
               | | | |              rti    Trk Grp
               | | | |               aa     35   compressed voice to City A
               | | | |                      40   voice trk to City A
               | | | ------------->3.1 kHz trk grp selection list
               | | |               rti    Trk Grp
               | | |                x      40   voice tk to City A
               | | |                       45   voice tk to City B
               | | |                       50   voice tk to City C
               | | --------------->56R,56KPS,56CLR trk grp selection list
               | |                 rti    Trk Grp
               | |                  a      60   56kps tk to City A
               | |                         62   56kps tk to City B
               | ----------------->64R trk grp selection list
               |                   rti    Trk Grp
               |                    b      65   64R tk to City A
               |                           67   64R tk to City B
              ------------------->64CLR trk grp selection list
                                   rti    Trk Grp
                                   c      68   64C to City A
                                          80   384 to City A
                                          82   384 to City B

   RLrt_wbrtx
route_x  wb_rate   wbrtx
  x      384         d
  x      multi-rate  e
  x      1536        f
normal route index--->RLrt_wbrtx mapping
x------------------------->384 trk grp selection list
               | |                 rti    Trk Grp
               | |                  d      80  P 384 to City A
               | |                         81  S 384 to City A
               | |                         82  P 384 to City B
               | |                         83  S 384 to City B
               | |                         84  P 384 to City C
               | |                         85  S 384 to City C
               | ---------------->Multi-Rate trk grp selection list
               |                  rti    Trk Grp
               |                   e      50  P multi-rate to City A
               |                          51  S multi-rate to City A
               |                          55  P multi-rate to City B
               |                          56  S multi-rate to City B
               |                          75  P 384_1536 to City C
               |                          76  S 384_1536 to City C
              ------------------>1536 trk grp selection list
                                  rti    Trk Grp f
                                          70  P 1536 only to City A
                                          71  S 1536 only to City A
                                          72  P 384_1536 to City B
                                          73  S 384_1536 to City B
```

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```
                                75  P 384_1536 to City C
                                76  S 384_1536 to City C
   P means primary trunk group (facilities)
   S means secondary trunk group (facilities)
```

**Attribute: route_x**

**Fullname:** Route Index

**Attribute Description** This attribute represents the existing route index chosen based upon the screening and destination indices or obtained from the Digit Analysis relations.

**Attribute: wb_rate**

**Fullname:** Wideband (NxDS0) rate of the trunk group

**Attribute Description** The wideband rate requested by an incoming NxDS0 call can be:

```
WB_384K to request a trunk that can only carry 384 kb/s
        wideband calls or DS0 calls,
WB_1536K to request a trunk that can only carry 1536 kb/s
         wideband calls or DS0 calls,
WB_MR to request a trunk that can only carry calls
         requiring from 128 kb/s --> 1536 kb/s depending
         upon the number of members within the wideband
         trunk group or DS0 calls.
```

Refer to the checks section of the wb_rtx attribute for the rules which ensure the correct wideband rate (wb_rate).

**Attribute: wb_rtx**

**Fullname:** Wideband Route Index

**Attribute Description** This attribute provides the new route index for wideband calls that request the matching wb_rate value specified in the key field (wb_rate).

A tuple with this attribute as key must exist in RLrt_routing and the 'route_type' field must be RTE_HUNT. The trunk group which is designated to carry the traffic is contained in the field 'portgrp.grpnum' of the corresponding RLrt_routing tuple.

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# RT2DS1

## 1. Description

This relation associates a set of DS1 facilities to a specific remote terminal (RT).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1054 |
| expected tuples in relation | 10 |
| density | 35 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | SMrt2ds1 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | unperm |

## 3. Field Layout

```
RT2DS1      relid = 1745  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     rtname      DMCIRCUIT    (ushort)     <--- key
     unit_no     DMUNITNO     (ushort: 8)
     utype       DMUNITTYPE   (enum: 7)
     rt_no       DMRTNUM      (uchar: 7)
 (a) rtint       DMRTINT      (enum: 1)
     rtds1_1     DMCIRCUIT    (ushort)
     rtds1_2     DMCIRCUIT    (ushort)
     rtds1_3     DMCIRCUIT    (ushort)
     rtds1_4     DMCIRCUIT    (ushort)
     rtds1_5     DMCIRCUIT    (ushort)
     rtds1_6     DMCIRCUIT    (ushort)
     rtds1_7     DMCIRCUIT    (ushort)
     rtds1_8     DMCIRCUIT    (ushort)
     rtds1_9     DMCIRCUIT    (ushort)
     rtds1_10    DMCIRCUIT    (ushort)
     rtds1_11    DMCIRCUIT    (ushort)
     rtds1_12    DMCIRCUIT    (ushort)
     rtds1_13    DMCIRCUIT    (ushort)
     rtds1_14    DMCIRCUIT    (ushort)
     rtds1_15    DMCIRCUIT    (ushort)
     rtds1_16    DMCIRCUIT    (ushort)
     rtds1_17    DMCIRCUIT    (ushort)
     rtds1_18    DMCIRCUIT    (ushort)
     rtds1_19    DMCIRCUIT    (ushort)
     rtds1_20    DMCIRCUIT    (ushort)
     rtds1_21    DMCIRCUIT    (ushort)
     rtds1_22    DMCIRCUIT    (ushort)
     rtds1_23    DMCIRCUIT    (ushort)
     rtds1_24    DMCIRCUIT    (ushort)
     rtds1_25    DMCIRCUIT    (ushort)
     rtds1_26    DMCIRCUIT    (ushort)
     rtds1_27    DMCIRCUIT    (ushort)
```

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```
    rtds1_28    DMCIRCUIT    (ushort)
    ds1_mask    DMUNS28      (ulong: 28)
    prot_ds1    DMRTDS1      (uchar: 5)
    bu_link     DMRTDS1      (uchar: 5)
        User, Compacted and Stored Tuple Layout RT2DS1
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |               |             | |
 0 |              rtname           |    unit_no    |    utype    |*|
   |---------------+---------------+---------------+---------------|
   |               | |             |                               |
 4 |    rt_no      |a|*************|            rtds1_1            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |            rtds1_2            |            rtds1_3            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |            rtds1_4            |            rtds1_5            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |            rtds1_6            |            rtds1_7            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |            rtds1_8            |            rtds1_9            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
24 |            rtds1_10           |            rtds1_11           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
28 |            rtds1_12           |            rtds1_13           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
32 |            rtds1_14           |            rtds1_15           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
36 |            rtds1_16           |            rtds1_17           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
40 |            rtds1_18           |            rtds1_19           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
44 |            rtds1_20           |            rtds1_21           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
48 |            rtds1_22           |            rtds1_23           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
52 |            rtds1_24           |            rtds1_25           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
56 |            rtds1_26           |            rtds1_27           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
```

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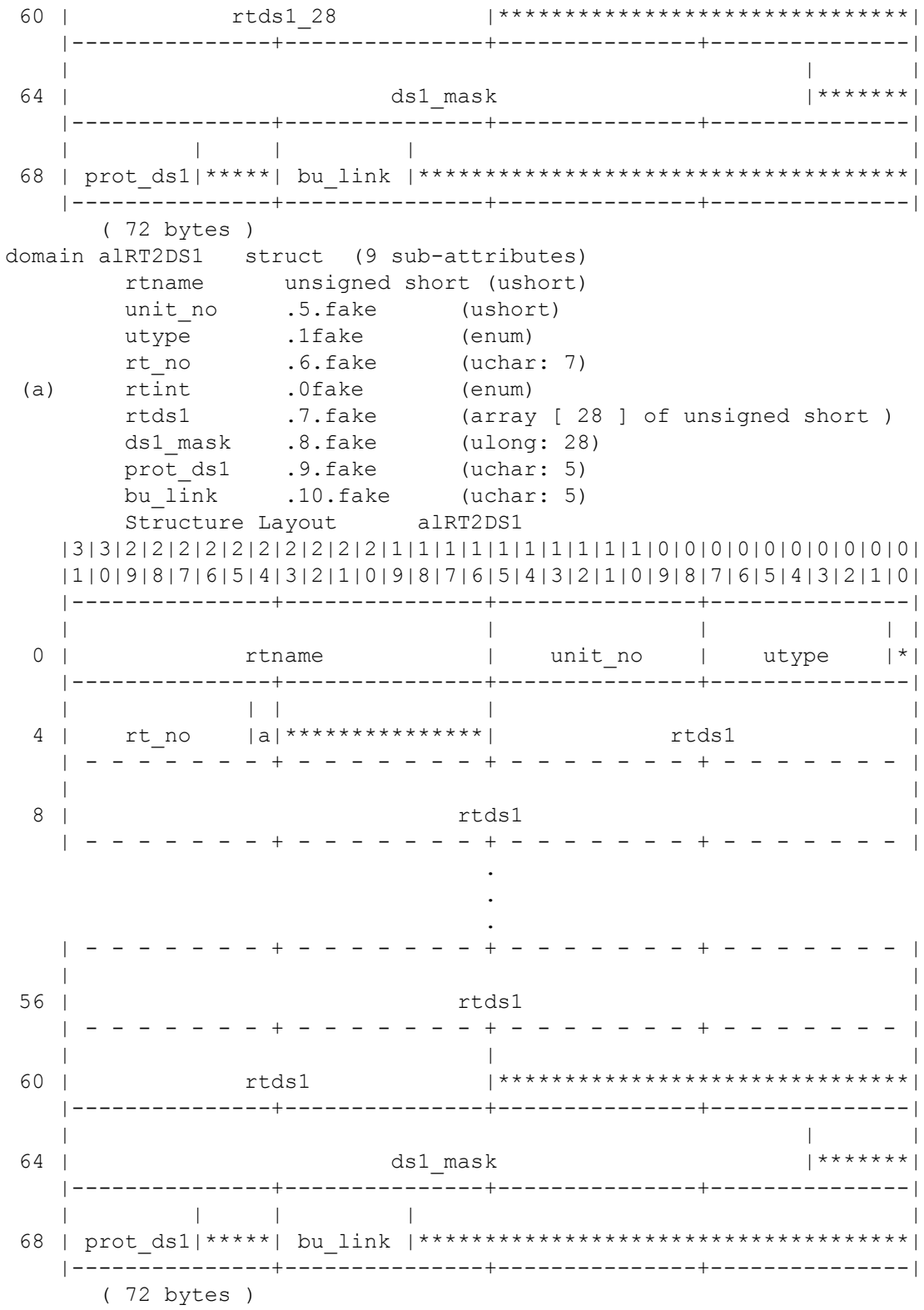


## 4. Population Rules for RLrt2ds1

**Relation Description**
Mapping From Remote Terminal (RT) to 5ESS-2000 switch peripheral Unit Facilities.

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This relation is used to determine which peripheral unit's facilities (DS1s) are associated with a given TR8 or TR303 remote terminal (RT). A tuple includes 28 locations that represent the 28 possible DS1 terminations on an RT. Each location contains the DS1 circuit name of the DS1 that terminates in that position on the RT, that is, location 1 represents the DS1 relative to the RT,..., location 28 represents the 28th DS1 relative to the RT.

**Attribute: rtname**

**Fullname:** RT Circuit Name

**Attribute Description** This is the internal RT circuit name.

**Attribute: unit_no**

**Fullname:** UNIT Number

**Attribute Description** This is the unit number.

**Attribute: rt_no**

**Fullname:** Remote Terminal Number

**Attribute Description** This is the Remote Terminal (RT) number.

**Attribute: rtint**

**Fullname:** RT Interface

**Attribute Description** This is the RT interface (TR8 or TR303).

**Attribute: rtds1_1**

**Fullname:** Transport facility circuit name associated with RT's 1st DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the first DS1 termination on the RT. A DS1 must always be assigned in this position.

**Attribute: rtds1_2**

**Fullname:** Transport facility circuit name associated with RT's 2nd DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the second DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_3**

**Fullname:** Transport facility circuit name associated with RT's 3rd DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the third DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_4**

**Fullname:** Transport facility circuit name associated with RT's 4th DS1

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**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 4th DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_5**

**Fullname:** Transport facility circuit name associated with RT's 5th DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the fifth DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_6**

**Fullname:** Transport facility circuit name associated with RT's 6th DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the sixth DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_7**

**Fullname:** Transport facility circuit name associated with RT's 7th DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the seventh DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_8**

**Fullname:** Transport facility circuit name associated with RT's 8th DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 8th DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_9**

**Fullname:** Transport facility circuit name associated with RT's 9th DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 9th DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_10**

**Fullname:** Transport facility circuit name associated with RT's 10th DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 10th DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_11**

**Fullname:** Transport facility circuit name associated with RT's 11th DS1

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**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 11th DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_12**

**Fullname:** Transport facility circuit name associated with RT's 12th DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 12th DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_13**

**Fullname:** Transport facility circuit name associated with RT's 13th DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 13th DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_14**

**Fullname:** Transport facility circuit name associated with RT's 14th DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 14th DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_15**

**Fullname:** Transport facility circuit name associated with RT's 15th DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 15th DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_16**

**Fullname:** Transport facility circuit name associated with RT's 16th DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 16th DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_17**

**Fullname:** Transport facility circuit name associated with RT's 17th DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 17th DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_18**

**Fullname:** Transport facility circuit name associated with RT's 18th DS1

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**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 18th DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_19**

**Fullname:** Transport facility circuit name associated with RT's 19th DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 19th DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_20**

**Fullname:** Transport facility circuit name associated with RT's 20th DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 20th DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_21**

**Fullname:** Transport facility circuit name associated with RT's 21st DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 21st DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_22**

**Fullname:** Transport facility circuit name associated with RT's 22nd DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 22nd DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_23**

**Fullname:** Transport facility circuit name associated with RT's 23rd DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 23rd DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_24**

**Fullname:** Transport facility circuit name associated with RT's 24th DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 24th DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_25**

**Fullname:** Transport facility circuit name associated with RT's 25th DS1

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**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 25th DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_26**

**Fullname:** Transport facility circuit name associated with RT's 26th DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 26th DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_27**

**Fullname:** Transport facility circuit name associated with RT's 27th DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 27th DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: rtds1_28**

**Fullname:** Transport facility circuit name associated with RT's 28th DS1

**Attribute Description** The value of this attribute is the transport facility (DS1) circuit name associated with the 28th DS1 termination on the RT. If there is no DS1 in this position, then the value of this attribute is 0x0 (GLNULCKT).

**Attribute: ds1_mask**

**Fullname:** Bit Mask for Assigned DS1s

**Attribute Description** This is a 28-bit mask that is used to determine which DS1s are assigned on this RT. For each of the 28 possible DS1 terminations on the RT, the corresponding bit in ds1_mask is set if a DS1 is assigned in that position, and cleared otherwise. The least significant bit, that is, bit 0, corresponds to DS1 number 1 relative to the RT.

**Attribute: prot_ds1**

**Fullname:** Protection Line DS1

**Attribute Description** This is the DS1 number (relative to the RT) of the protection line DS1. A value of 0 indicates that there is no protection line DS1.

**Attribute: bu_link**

**Fullname:** Backup EOC/TMC Link

**Attribute Description** This is the DS1 number (relative to the RT) of the backup EOC/TMC link. This attribute is meaningful only for TR303 RTs and has a value of 0 for TR8 RTs.

**Defines:**"db/DMcircuit.h"

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# RTANNGRP

## 1. Description

This relation contains the local announcement group relation for switching modules.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 400 |
| expected tuples in relation | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| ks key store | DBNO |
| l1 length of subkey1 | 13 |
| p1 position of subkey1 | 3 |
| ignore key bits | 0-2 |

## 3. Field Layout

```
RTANNGRP    relid = 582   DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     grpnum      DMGRPNUM     (ushort)     <--- key, not stored
     anngrp      DMGRPNUM     (ushort)
         User and Compacted Tuple Layout   RTANNGRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             grpnum            |*******************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             anngrp            |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     anngrp      DMGRPNUM     (ushort)
           Stored Tuple Layout     RTANNGRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             anngrp            |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLrtanngrp

**Relation Description**
Routing Announcement Group

Local announcement group relation for switching modules.

**Attribute: grpnum**

**Fullname:** Group Number

**Attribute Description** Trunk Group Number must correspond to a globally controlled trunk group

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and be an announcement trunk group type. This means that the grpnum value must have tuple in the RLrt_trkg relation with the 'type' attribute equal to announcement and 'module' attribute = Zero(0) (that is, the trunk group is globally controlled).

**Attribute: anngrp**

**Fullname:** Announcement Group

**Attribute Description** Trunk Group Number for a local module announcement trunk. The RLrt_trkg must have a tuple with type attribute = announcement and module = Nonzero (that is, the trunk group is a local trunk group). The module number in the RLrt_trkg tuple indicates where the RLrtanngrp tuple is located.

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# RTCASE

## 1. Description

This relation indicates the routing case.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number tuples | 256 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| padding indicator | unpadded |
| permutation type | un_perm |

## 3. Field Layout

```
RTCASE      relid = 2561  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     rtcase      DMUNS9       (ushort: 9)     <--- key
     lnk_set     DMCLNK_SET   (ushort)
     altls1      DMCLNK_SET   (ushort)
     altls2      DMCLNK_SET   (ushort)
     altls3      DMCLNK_SET   (ushort)
     dpci0       DMHEX32      (ulong)
     dpci1       DMHEX32      (ulong)
     dpci2       DMHEX32      (ulong)
     dpci3       DMHEX32      (ulong)
     dpci4       DMHEX32      (ulong)
     dpci5       DMHEX32      (ulong)
     dpci6       DMHEX32      (ulong)
     dpci7       DMHEX32      (ulong)
     dpci8       DMHEX32      (ulong)
     dpci9       DMHEX32      (ulong)
     dpci10      DMHEX32      (ulong)
     dpci11      DMHEX32      (ulong)
     dpci12      DMHEX32      (ulong)
     dpci13      DMHEX32      (ulong)
     dpci14      DMHEX32      (ulong)
     dpci15      DMHEX32      (ulong)
     dpci16      DMHEX32      (ulong)
     dpci17      DMHEX32      (ulong)
     dpci18      DMHEX32      (ulong)
     dpci19      DMHEX32      (ulong)
     dpci20      DMHEX32      (ulong)
     dpci21      DMHEX32      (ulong)
     dpci22      DMHEX32      (ulong)
     dpci23      DMHEX32      (ulong)
     dpci24      DMHEX32      (ulong)
     dpci25      DMHEX32      (ulong)
     dpci26      DMHEX32      (ulong)
```

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```
    dpci27      DMHEX32      (ulong)
    dpci28      DMHEX32      (ulong)
    dpci29      DMHEX32      (ulong)
    dpci30      DMHEX32      (ulong)
    dpci31      DMHEX32      (ulong)
    dpci32      DMHEX32      (ulong)
    dpci33      DMHEX32      (ulong)
    dpci34      DMHEX32      (ulong)
    dpci35      DMHEX32      (ulong)
    dpci36      DMHEX32      (ulong)
    dpci37      DMHEX32      (ulong)
    dpci38      DMHEX32      (ulong)
    dpci39      DMHEX32      (ulong)
    dpci40      DMHEX32      (ulong)
    dpci41      DMHEX32      (ulong)
    dpci42      DMHEX32      (ulong)
    dpci43      DMHEX32      (ulong)
    dpci44      DMHEX32      (ulong)
    dpci45      DMHEX32      (ulong)
    dpci46      DMHEX32      (ulong)
    dpci47      DMHEX32      (ulong)
    dpci48      DMHEX32      (ulong)
    dpci49      DMHEX32      (ulong)
    dpci50      DMHEX32      (ulong)
    dpci51      DMHEX32      (ulong)
    dpci52      DMHEX32      (ulong)
    dpci53      DMHEX32      (ulong)
    dpci54      DMHEX32      (ulong)
    dpci55      DMHEX32      (ulong)
    dpci56      DMHEX32      (ulong)
    dpci57      DMHEX32      (ulong)
    dpci58      DMHEX32      (ulong)
    dpci59      DMHEX32      (ulong)
    dpci60      DMHEX32      (ulong)
    dpci61      DMHEX32      (ulong)
    dpci62      DMHEX32      (ulong)
        User, Compacted and Stored Tuple Layout RTCASE
  |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
  |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
  |---------------+---------------+---------------+---------------|
  |                 |             |                               |
0 |      rtcase     |*************|            lnk_set            |
  |---------------+---------------+---------------+---------------|
  |                               |                               |
4 |             altls1            |             altls2            |
  |---------------+---------------+---------------+---------------|
  |                               |                               |
8 |             altls3            |*******************************|
  |---------------+---------------+---------------+---------------|
                                  .
                                  .
                                  .
  |---------------+---------------+---------------+---------------|
  |                                                               |
```

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```
256 |                            dpci61                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
260 |                            dpci62                             |
    |---------------+---------------+---------------+---------------|
       ( 264 bytes )
domain alRTCASE   struct  (4 sub-attributes)
         rtcase      .1.fake      (ushort: 9)
         lnk_set     unsigned short (ushort)
         altls       .2.fake      (array [ 3 ] of unsigned short )
         dpci_bit    .3.fake      (array [ 63 ] of unsigned long )
         Structure Layout      alRTCASE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                 |             |                               |
  0 |      rtcase     |*************|            lnk_set            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            altls                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  8 |             altls             |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                          dpci_bit                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                          dpci_bit                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                  .
                                  .
                                  .
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
256 |                          dpci_bit                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
260 |                          dpci_bit                             |
    |---------------+---------------+---------------+---------------|
       ( 264 bytes )
```

## 4. Population Rules for RLrtcase

**Relation Description**
Routing Case Relation.

This relation defines the routing cases. The routing case, as a concept, is formed out of a routing case index, and up to four linksets/combined linksets, called respectively the normal routing and the three alternate routings. It also contains a bitmap array that indicates which DPCIs, and therefore DPCs, are using this routing case.

**Attribute: rtcase**

**Fullname:** Routing Case Index.

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**Attribute Description** ---

**Attribute: lnk_set**

**Fullname:** Linkset/Combined Linkset.

**Attribute Description** This attribute represents the linkset or the combined linkset which is the first component of the routing case.

**Attribute: altls1**

**Fullname:** First Alternate Linkset/Combined Linkset.

**Attribute Description** This attribute is the second routing case element.

**Attribute: altls2**

**Fullname:** Second Alternate Linkset/Combined Linkset.

**Attribute Description** This attribute is the third routing case element.

**Attribute: altls3**

**Fullname:** Third Alternate Linkset/Combined Linkset.

**Attribute Description** This attribute is the fourth routing case element.

**Attribute: dpci[*]**

**Fullname:** Array of bits used to indicate which dpci's are served by this routing case.

**Attribute Description** Attributes dpci0 thru dpci62 comprise the array of bits which are used to indicate which dpci's are served by this routing case. The layout of the dpci bit array is shown here.

```
high                                                    low
order                                                  order
|--31--30--29--28--27--26-  ...  -05--04--03--02--01--00-| bit position
|-------------------------  ...  ------------------------|
|  D   D   D   D   D   D    ...   D   D   D   D   D   D  |
|  P   P   P   P   P   P    ...   P   P   P   P   P   P  |
|  C   C   C   C   C   C    ...   C   C   C   C   C   C  |  dpci0
|  I   I   I   I   I   I    ...   I   I   I   I   I   I  |
|  31  30  29  28  27  26   ...   05  04  03  02  01  00 |
|-------------------------  ...  ------------------------|
|  .   .   .   .   .   .    ...   .   .   .   .   .   .  |
|  .   .   .   .   .   .    ...   .   .   .   .   .   .  |
|  .   .   .   .   .   .    ...   .   .   .   .   .   .  |
|-------------------------  ...  ------------------------|
|  D   D   D   D   D   D    ...   D   D   D   D   D   D  |
|  P   P   P   P   P   P    ...   P   P   P   P   P   P  |
|  C   C   C   C   C   C    ...   C   C   C   C   C   C  | dpci62
|  I   I   I   I   I   I    ...   I   I   I   I   I   I  |
| 2015 -------------------  ...  --------------------1984|
|-------------------------  ...  ------------------------|
```

When a routing case is assigned to serve a dpc,an entry is made in the dpci bit map array as follows:

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(1) Divide the dpci being served by 32 to obtain the segment in the array to be modified (such as, for dpci == 0..31, modify dpci0: for dpci == 32..63, modify dpci1, etc.)

(2) In the segment found in step 1, locate the (dpci & 0x1f)-th bit.

(3) Set the bit position to 1.

If the first bit of dpci0 equals 0, it means that there is at least 1 DPCI using the routing case, else, it means that there is no DPCI using the routing case.

When a destination point code is added to the network, if the Glrmrte equals DBYES, and if there is a need for a new routing case, then a new tuple will be populated in this relation. When the Gl_rmrte equals DBNO then this relation will not be populated.

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# RTDBACK

## 1. Description

Line numbers for which real-time call detail records will be generated.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| expected tuples in relation | 10 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
RTDBACK     relid = 2138  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     oaff5        DMUSHORT     (ushort)
     line         DMLINENO     (ushort: 14)     <--- key
 (a) oaff3        DMBOOL       (enum: 1)
 (b) oaff4        DMBOOL       (enum: 1)
     npa          DMONPA       (ushort: 10)     <--- key
     oaff1        DMUNS6       (ushort: 6)
     nxx          DMONPA       (ushort: 10)     <--- key
     oaff2        DMUNS6       (ushort: 6)
         User, Compacted and Stored Tuple Layout    RTDBACK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                             | | |
  0 |              oaff5             |             line            |a|b|
    |---------------+---------------+---------------+---------------|
    |                     |          |                     |         |
  4 |         npa         |   oaff1  |         nxx         |  oaff2  |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLrtdback

**Relation Description**
Real-Time Call Details line numbers.

An entry in this table indicates that a call from this line number should have real-time call detail records created.

**Attribute: npa**

**Fullname:** NPA of the line to track

**Attribute Description** NPA of the line number for which call details should be monitored.

**Attribute: nxx**

**Fullname:** NXX of the line to track

**Attribute Description** NXX of the line number for which call details should be monitored.

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**Attribute: line**

**Fullname:** line number of the line to track

**Attribute Description** Line number of the line for which call details should be monitored.

**Attribute: oaff1**

**Fullname:** Spare Field 1

**Attribute Description** Spare field.

**Attribute: oaff2**

**Fullname:** Spare Field 2

**Attribute Description** Spare field.

**Attribute: oaff3**

**Fullname:** Spare Field 3

**Attribute Description** Spare field.

**Attribute: oaff4**

**Fullname:** Spare Field 4

**Attribute Description** Spare field.

**Attribute: oaff5**

**Fullname:** Spare Field 5

**Attribute Description** Spare field.

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# RTDN_G

## 1. Description

Translates DN group to module number or route index child.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1920 |
| expected tuples in relation | 300 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LRFR |
| relation type | DBSTORAGE |
| ks key store | DBNO |
| foldtype | DBGC31 |
| gkidxrel reverse index | rlRTDN_I |

## 3. Field Layout

```
RTDN_G      relid = 2726  DBSTORAGE  DBACC_GK    DBPRAM    LRFR    NULL
     gkRTDN_G    DMGK14       (ulong: 14)     <--- key, not stored
     psgrpnum    DMGRPNUM     (ushort)
     ri          DMRTEIDX     (ushort: 14)
     rtg_mod     DMMODULE     (ushort: 8)
     psrtg_mod   DMMODULE     (ushort: 8)
         User and Compacted Tuple Layout     RTDN_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkRTDN_G             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |   |
  4 |            psgrpnum           |              ri               |***|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  8 |    rtg_mod    |   psrtg_mod   |*******************************|
    |---------------+---------------+---------------+---------------|
      ( 12 bytes )
     psgrpnum    DMGRPNUM     (ushort)
     ri          DMRTEIDX     (ushort: 14)
     rtg_mod     DMMODULE     (ushort: 8)
     psrtg_mod   DMMODULE     (ushort: 8)
           Stored Tuple Layout   RTDN_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                         GK LINK FIELD                         |
    |---------------+---------------+---------------+---------------|
    |                               |                               |   |
  4 |            psgrpnum           |              ri               |***|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  8 |    rtg_mod    |   psrtg_mod   |*******************************|
```

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```
|---------------+---------------+---------------+---------------|
   ( 12 bytes )
```

## 4. Population Rules for RLrtdn_g

There are no population rules for this relation.

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# RTDN_MHG

## 1. Description

Associates a local DN with its multiline multiposition hunt group number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected tuples in relation | 9 |
| density | 3 |
| ks key store | AUTO |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
RTDN_MHG    relid = 519   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     grpnum      DMGRPNUM     (ushort)
     sub_grp     DMUNS4       (ushort: 4)
 (a) psflag      DMBOOL       (enum: 1)  <--- key
 (b) ucd_hunt    DMBOOL       (enum: 1)
 (c) muph_hunt   DMBOOL       (enum: 1)
 (d) isat_hunt   DMBOOL       (enum: 1)
     locdn       DMLOCDN      (struct)  <--- key, compacted
         noc         DMNOC        (ushort: 8)
         digits      DMLOCDIG     (array [ 4 ] of char )
            User Tuple Layout      RTDN_MHG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |       | | | | |               |
  0 |              grpnum             |sub_grp|a|b|c|d|***************|
    |===============+============ locdn ============+===============|
    |                |                |                               |
  4 |****************|      noc       |              digits           |
    | - - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - - |
    |                                 |                               |
  8 |              digits             |*******************************|
    |===============+===============+===============+===============|
       ( 12 bytes )
     grpnum      DMGRPNUM     (ushort)
     sub_grp     DMUNS4       (ushort: 4)
 (a) psflag      DMBOOL       (enum: 1)  <--- key
 (b) ucd_hunt    DMBOOL       (enum: 1)
 (c) muph_hunt   DMBOOL       (enum: 1)
 (d) isat_hunt   DMBOOL       (enum: 1)
     locdn       DMKLOCDN     (struct)  <--- key, compacted
         noc         DMNOC        (ushort: 8)
         index       DMUNS14      (ushort: 14)
          Compacted Tuple Layout   RTDN_MHG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
```

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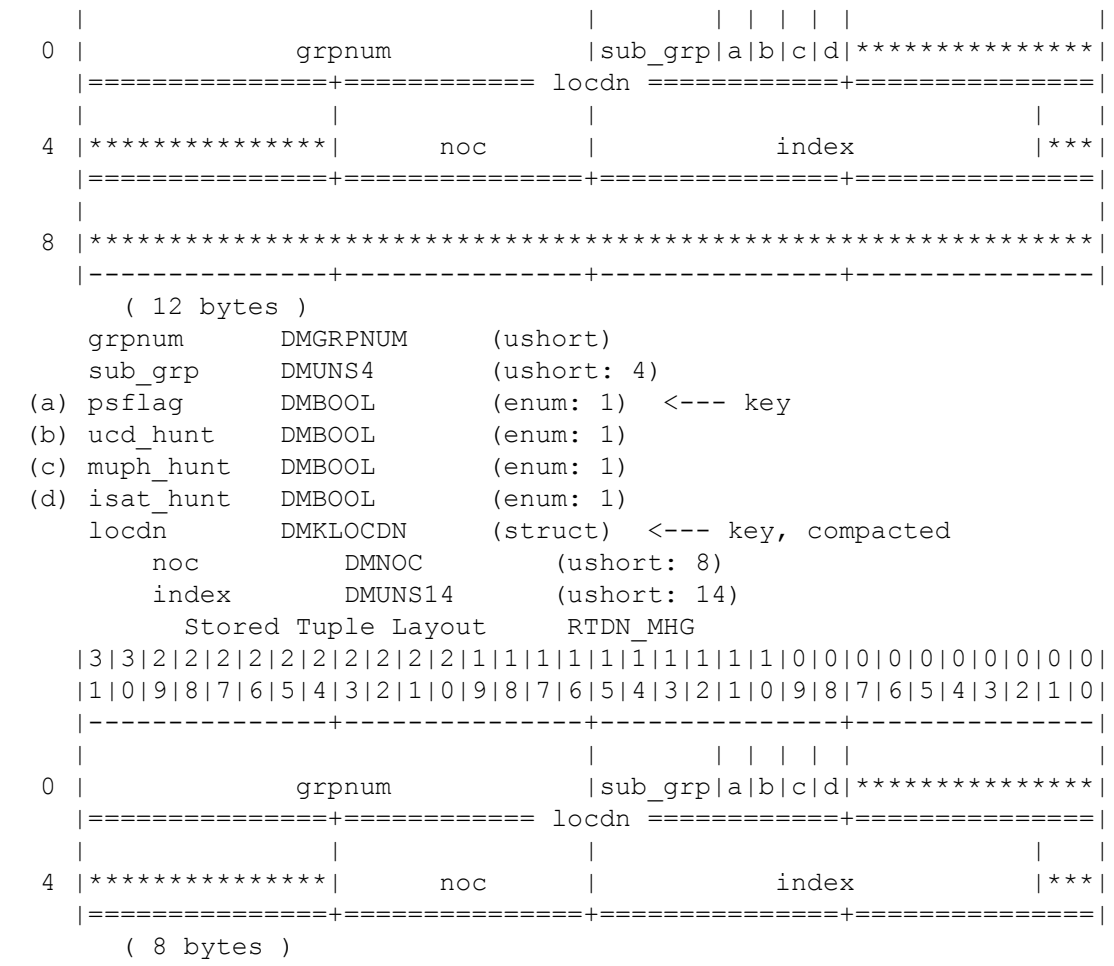


## 4. Population Rules for RLrtdn_mhg

**Relation Description**
Associates a local DN with its multiline / multiposition hunt group number.

Use this relation to obtain the MLHG group number for types UCD, PSUCD, MUPH, or ISAT.

**Attribute: locdn**

**Fullname:** local directory number

**Attribute Description** This attribute is a structure consisting of the normalized office code (NOC) and four directory number digits (digits). For packet switching multi-line hunt groups (MLHG)s the locdn will always be a PSUCD DN. The linear DNs associated with packet MLHG members are stored in RLpsldn_gp.

**Attribute: locdn.noc**

**Fullname:** normalized office code

**Attribute Description** Noc code assigned to phone number of group if a phone number is assigned.

**Attribute: locdn.digits**

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**Fullname:** directory digits

**Attribute Description** The last four digits assigned to phone number of group if a phone number is assigned.

**Attribute: psflag**

**Fullname:** packet switching MLHG indicator

**Attribute Description** Packet switching MLHG dn indicator

If RLrtdn_mhg.psflag == DBNO then:

(1) Verify the existence of a tuple in RLrt_dntran (on the same module) with key RLrt_dntran.dn == RLrtdn_mhg.locdn.

(2) The RLrt_dntran tuple must have RLrt_dntran.ucd_muph = DBYES.

If RLrtdn_mhg.psflag == DBYES, then verify the existence of a tuple in RLpr_dntran (on the same module) with key RLpr_dntran.dn == RLrtdn_mhg.locdn.

**Attribute: grpnum**

**Fullname:** multiline / multiposition hunt group number

**Attribute Description**

```
ID of this multiline/ multiposition hunt group.
IF ( RLrtdn_mhg.psflag == DBNO )
   IF there are members assigned to the MLHG THEN
   Verify existence of tuple in RLgroup_port with key values:
      RLgroup_port.portgrp.grpnum = RLrt_mhg.grpnum,
      RLgroup_port.portgrp.grptyp = TM_LINE,
      RLgroup_port.member = 1.
ELSE
IF there are members assigned to the MLHG THEN
   Verify existence of tuple in RLpsgp_prt with key values:
      RLpsgp_prt.grpnum = RLrt_mhg.grpnum,
      RLpsgp_prt.ptype  = TM_LINE,
      RLpsgp_prt.member = 1.
```

**Attribute: ucd_hunt**

**Fullname:** UCD hunt group indicator

**Attribute Description**

```
Indicates if this key DN is for a UCD type hunt group
(DBYES) or not (DBNO)
Dependency:
Only one of ucd_hunt, muph_hunt, or isat_hunt can be DBYES,
the other 2 must be DBNO.
IF ( RLrtdn_mhg.psflag == DBYES )
THEN RLrtdn_mhg.ucd_hunt = DBYES
```

**Attribute: muph_hunt**

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**Fullname:** MUPH hunt group indicator

**Attribute Description**

```
Indicates if this key DN is for a MUPH type hunt group
(DBYES) or not (DBNO)
Dependency:
Only one of ucd_hunt, muph_hunt, isat_hunt can be DBYES,
the other 2 must be DBNO.
IF ( RLrtdn_mhg.psflag == DBYES )
THEN RLrtdn_mhg.muph_hunt = DBNO
```

**Attribute: isat_hunt**

**Fullname:** ISAT hunt group indicator

**Attribute Description**

```
Indicates if this key DN is for an  isdn attendant (ISAT) type hunt group
.
Only one of ucd_hunt, muph_hunt, or isat_hunt can be DBYES,
the other 2 must be DBNO.
IF ( RLrtdn_mhg.psflag == DBYES )
THEN RLrtdn_mhg.isat_hunt = DBNO
```

**Attribute: sub_grp**

**Fullname:** subgroup number

**Attribute Description**

```
Multiposition hunt group (MUPH) subgroup number or
ISDN Attendant (ISAT) subgroup number.
IF ( RLrtdn_mhg.muph_hunt == DBYES),
    this attribute indicates subgroup number of the muph,
ELSE IF (RLrtdn_mhg.isat_hunt == DBYES),
    this attribute indicates subgroup number of the ISAT group.
    Up to 8 subgroup members are available for ISAT groups
    but for MUPH groups only 6 are allowed.
ELSE
    it takes the default value.
IF ( RLrtdn_mhg.muph_hunt == DBYES ), 0 < subgrp <= 6.
IF ( RLrtdn_mhg isat_hunt == DBYES ), 0 <= subgrp <= 7.
ELSE subgrp = 0.
```

If RLrtdn_mhg.isat_hunt = DBYES, the subgrp number represents either a LDN1-8 or WAT1-5 ICI. See RLicx_ici for dependency rules.

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# RTDN_R

## 1. Description

Translates DN group to module number or route index root.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 819100 |
| expected tuples in relation | 6250 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFR |
| relation type | DBSTORAGE |
| ks key store | AUTO |
| tsbal | DBSPEED |

## 3. Field Layout

```
RTDN_R      relid = 2725  DBSTORAGE  DBACC_CIND  DBPRAM    LRFR    NULL
     dngroup     DMDNGROUP    (struct)     <--- key, not stored, compacted
         noc         DMNOC        (ushort: 14)
         d4d3        DMD4D3       (array [ 2 ] of char )
     rtdnr       DMGK14       (ulong: 14)
            User Tuple Layout    RTDN_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+========== dngroup ==========+===============|
    |                            |   |                              |
  0 |             noc            |***|              d4d3            |
    |===============+===============+===============+===============|
    |                            |                                  |
  4 |           rtdnr            |**********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     dngroup     DMKDNGRP     (struct)     <--- key, not stored, compacted
         noc         DMNOC        (ushort: 14)
         index       DMUNS7       (ushort: 7)
     rtdnr       DMGK14       (ulong: 14)
          Compacted Tuple Layout     RTDN_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+========== dngroup ==========+===============|
    |                            |   |              |               |
  0 |             noc            |***|    index     |****************|
    |===============+===============+===============+===============|
    |                            |                                  |
  4 |           rtdnr            |**********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     rtdnr       DMGK14       (ulong: 14)
           Stored Tuple Layout   RTDN_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                            |                                  |
```

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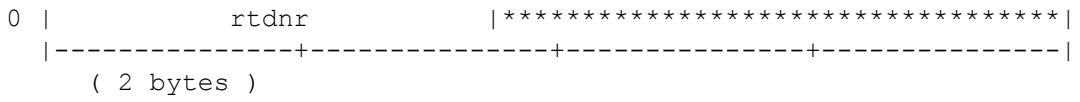


## 4. Population Rules for RLrtdn_r

There are no population rules for this relation.

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# RTDNMOD

## 1. Description

Translates DN group to module number or route index.

This is a virtual update relation. The tree diagram Figure 1 depicts the stored structure of virtual relation RTDNMOD.

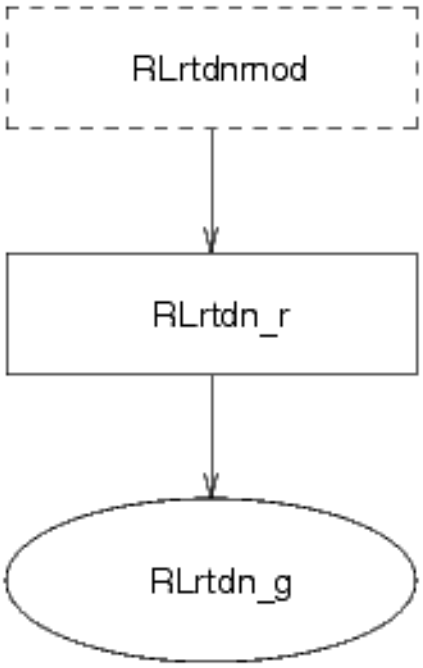


**Figure 1 Virtual Relation RTDNMOD**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LRFR |
| relation type | DBSTATIC |

## 3. Field Layout

```
RTDNMOD     relid = 605   DBSTATIC   DBACC_OPV   DBNOTODD  LRFR    NULL
     dngroup     DMDNGROUP    (struct)     <--- key, compacted
         noc         DMNOC        (ushort: 14)
         d4d3        DMD4D3       (array [ 2 ] of char )
     psgrpnum    DMGRPNUM     (ushort)
     ri          DMRTEIDX     (ushort: 14)
     rtg_mod     DMMODULE     (ushort: 8)
     psrtg_mod   DMMODULE     (ushort: 8)
            User Tuple Layout   RTDNMOD
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+========== dngroup ==========+===============|
    |                            |   |                            |
  0 |            noc             |***|              d4d3          |
```

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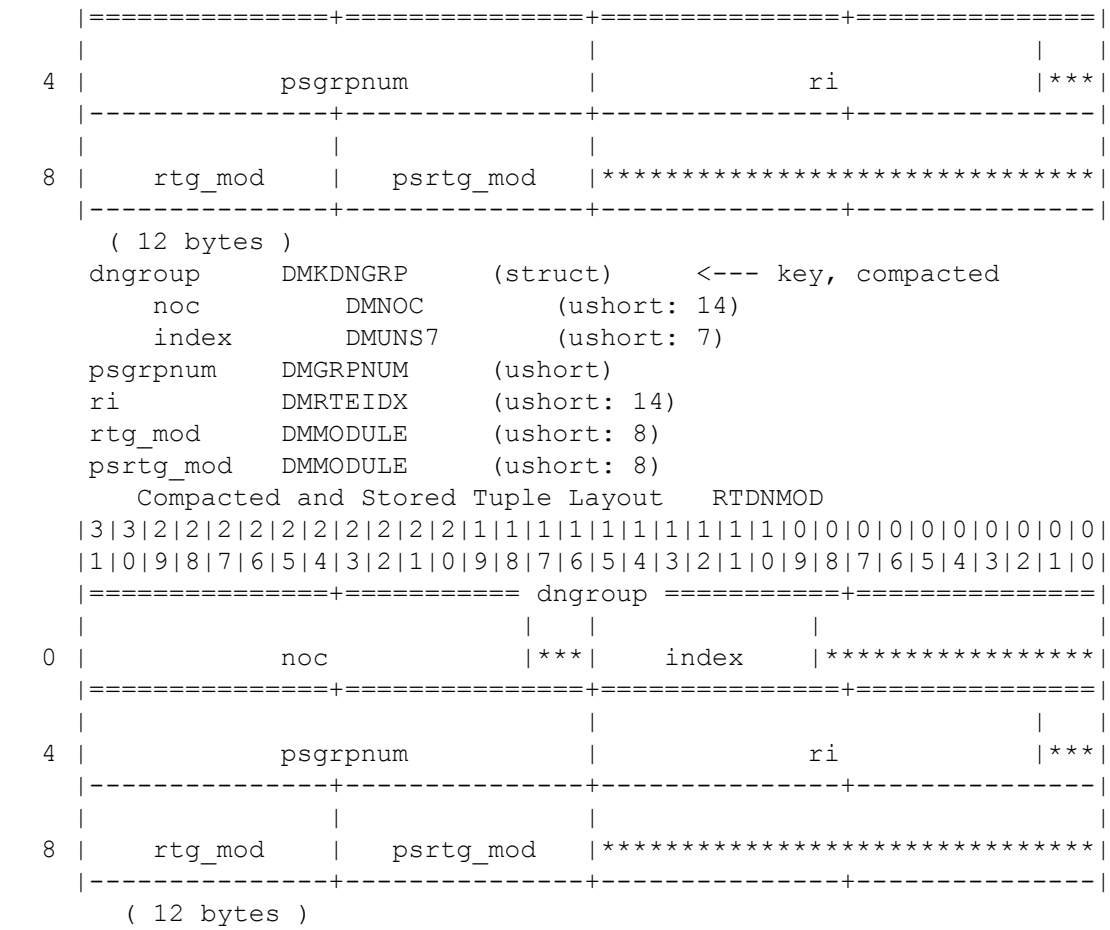


## 4. Population Rules for RLrtdnmod

**Relation Description**
Translates DN group to module number or route index.

**Attribute: dngroup**

**Fullname:** directory number group - a group of 100 directory numbers

**Attribute Description** Defines a group of 100 directory numbers.

A tuple exists if

(a) there is at least one line with a directory number that matches on rlRTDNMOD.dngroup or

(b) a route index is to be assigned to this block of 100 directory numbers

**Attribute: dngroup.noc**

**Fullname:** normalized office code

**Attribute Description** see RLrtdnmod.dngroup

**Attribute: dngroup.d4d3**

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**Fullname:** directory number thousands digit (d4), and hundreds digit (d3)

**Attribute Description** see RLrtdnmod.dngroup

**Attribute: rtg_mod**

**Fullname:** routing module

**Attribute Description** Identifies the switching module that performs routing for the group of directory numbers identified by dngroup. Any RLRT_DNTRAN tuples that exist for the specified dngroup reside on this SM.

Also see the previous RC/ODA rules.

**Attribute: psrtg_mod**

**Fullname:** packet routing module

**Attribute Description** Identifies the switching module that performs packet routing for the group of directory numbers identified by dngroup. Any RLPR_DNTRAN tuples that exist for the specified dngroup reside on this SM. psrtg_mod indicates a packet routing SM. The packet routing SM must be an ISDN module.

Also see the previous RC/ODA rules.

**Attribute: ri**

**Fullname:** Routing Index

**Attribute Description** If non-zero then there must exist a corresponding tuple in RLRT_ROUTING. Identifies the route index over which to route all calls to DNs within this 100s group. As explained in the population rules for relation RLRT_DNTRAN for attribute dn, if the noc+d4d3 has a tuple in relation RLRTDNMOD with a non-zero route index a tuple also may exist in RLRT_DNTRAN. For these cases the tuple in RLRT_DNTRAN will take precedence insofar as call routing is concerned.

Existing tuples with non-zero rtg_mod where ri is being changed from zero to non-zero should leave rtg_mod with the same value.

**Attribute: psgrpnum**

**Fullname:** Packet Switching Multi-Line Hunt Group Number.

**Attribute Description** If non-zero, then all 100 directory numbers for the 'dngroup' are listed TNs of the MLHG indicated by 'psgrpnum'. This means that for all 100 DN's a tuple must not be found for RLpr_dntran and RLrtdn_mhg for each DN in the 'dngroup'. Therefore, when routing a packet switch call, routing will read RLrtdnmod and if 'psgrpnum' is a value other than zero, then routing will read RLrt_mhg using the 'psgrpnum' found in RLrtdnmod.

If zero, then for each of the directory numbers in the 'dngroup' that is a listed TN of a MLHG, a RLpr_dntran and RLrtdn_mhg tuple will be populated for that individual directory number.

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# RTDNMPG

## 1. Description

Associates a local DN and billing DN for DSL with its modem pool group number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |

## 3. Field Layout

```
RTDNMPG     relid = 163   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     grpnum      DMGRUPNM     (ushort: 11)
     locdn       DMLOCDN      (struct)  <--- key, compacted
         noc         DMNOC        (ushort: 8)
         digits      DMLOCDIG     (array [ 4 ] of char )
     dsldn       DMLOCDN      (struct)  <--- compacted
         noc         DMNOC        (ushort: 8)
         digits      DMLOCDIG     (array [ 4 ] of char )
     billdsldn   DMDN         (struct)  <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
            User Tuple Layout   RTDNMPG
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
  0 |        grpnum         |***************************************|
    |===============+============ locdn ============+===============|
    |               |               |                               |
  4 |***************|      noc      |             digits            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  8 |             digits            |*******************************|
    |===============+============ dsldn ============+===============|
    |               |               |                               |
 12 |***************|      noc      |             digits            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 16 |             digits            |*******************************|
    |===============+========== billdsldn ==========+===============|
    |       |       |                                               |
 20 | digcnt|*******|                       dn                      |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 24 |                             dn                                |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
```

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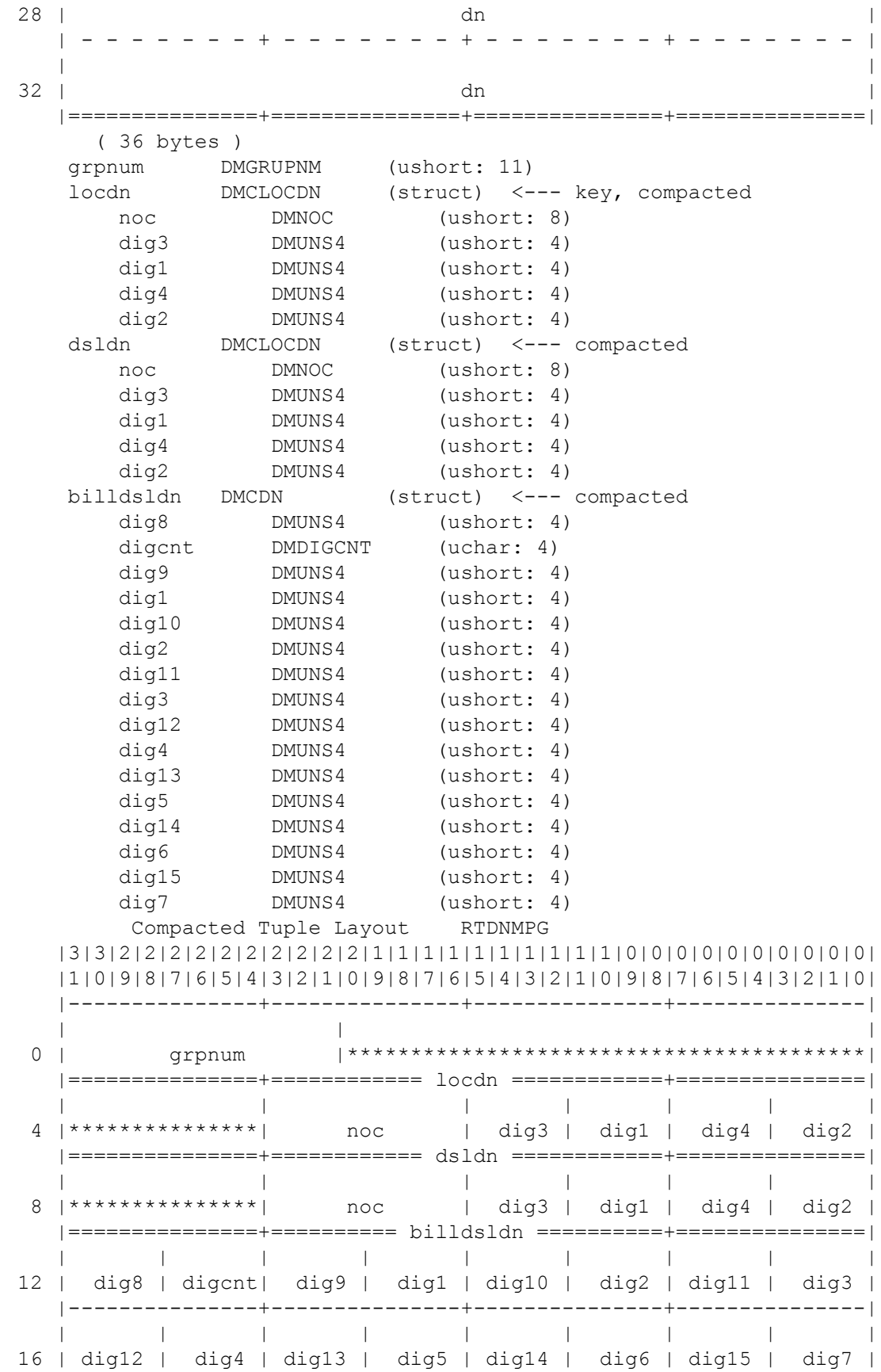


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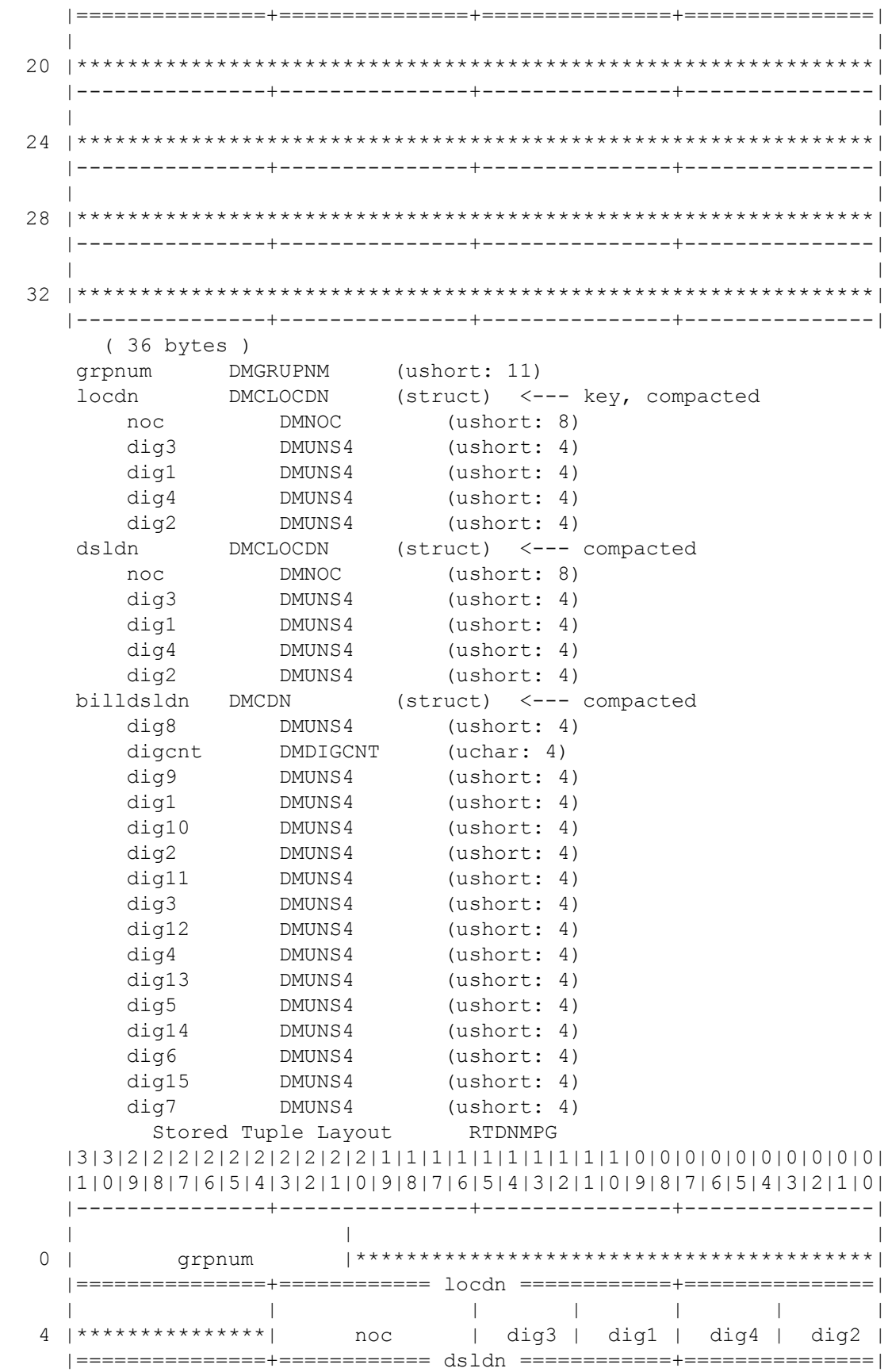


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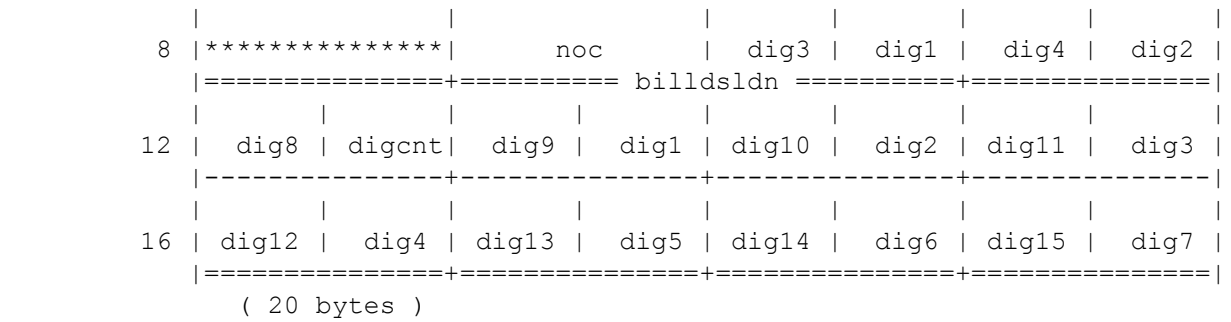


## 4. Population Rules for RLrtdnmpg

**Relation Description**
Terminating local DN for modem pool group (MPG) number.

Associates a local DN and billing DN for DSL with its modem pool group number.

**Attribute: locdn**

**Fullname:** local directory number.

**Attribute Description** locdn (KEY) This is a seven (7) digit local directory number (DN) locdn is used for two types of DNs: (see the following pop rules for dsldn for how to distinguish which of these types apply for a given tuple)

(1) It is a terminating directory number of a DSL subscriber to the modem pool; this locdn will be used by any analog customer wishing to place a call to the DSL using the modem pool.

Verify the existence of a tuple in RLrt_dntran (on the same module) with RLrt_dntran.dn= RLrtdnmpg.locdn and RLrt_dntran.termclass= RTTC_MODEM.

(2) It is a terminating DN assigned to the modem pool to be used by DSL subscribers who wish to dial a modem pool member to place a digital to analog call.

Verify the existence of a tuple in RLpr_dntran (on the same module) with RLpr_dntran.dn= RLrtdnmpg.locdn and RLpr_dntran.pstermcl= RTTC_MODEM.

**Attribute: locdn.noc**

**Fullname:** Normalized office code.

**Attribute Description** The normalized office code

**Attribute: locdn.digits**

**Fullname:** digits.

**Attribute Description** Digit string of 4 digits

**Attribute: grpnum**

**Fullname:** group number.

**Attribute Description** ID of the multi-line hunt group for modem pool group.

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The same value of RLrtdnmpg.grpnum must be populated to RLrt_mhg.grpnum and RLrt_mpg.grpnum.

**Attribute: dsldn**

**Fullname:** DSL directory number.

**Attribute Description** For each dsldn there is a tuple in OFFICECODE and PR_DNTRA relation such that:

(1) The first three digits in dsldn.noc = RLofficecode.noc

(2) RLpr_dntra.dn.noc = RLofficecode.noc The last four digits in dsldn.digits = RLpr_dntra.dn.digits

(3) The RLpr_dntra.pstermcl = RTTC_INDIVID or RTTC_PORTGRP.

Or, if dsldn is a listed TN of a packet MLHG and if this packet MLHG has the entire hundreds group as its listed TN's Then there should be a tuple in RLrtdnmod where the RLrtdnmpg.dsldn.noc = RLrtdnmod.dngroup.noc and the thousand and hundred digits = RLrtdnmod.dngroup.d4d3 and where RLrtdnmod.psgrpnum is not equal to 0.

If the key 'locdn' of this tuple is a terminating DN assigned to a modem pool group, the dsldn.noc = 0 and dsldn.digit = value of 0.

**Attribute: dsldn.noc**

**Fullname:** Normalized office code.

**Attribute Description** The normalized office code

**Attribute: dsldn.digits**

**Fullname:** digits.

**Attribute Description** Digit string of 4 digits

**Attribute: billdsldn**

**Fullname:** billing DSL directory number.

**Attribute Description** The billing DN associated with the dsldn in the same tuple.

(1) When the locdn of this tuple represents the terminating DN for a modem pool call, this billdsldn is the billing DN for the call. If the dsldn is a MLHG listed TN of a packet MLHG then the billdsldn will be the dsldn with npa added. Otherwise look at RLpr_dntran to get ph, ph channel, and party. Use these to access RLpsx25ln. If the RLpsx25ln.billdn_flg is equal to yes, then use the ph, ph channel, and party to look up the RLpsbilldn.bill_dn. When a tuple in PSX25LN relation exists such that

```
RLpsx25ln.dd_number = RLrtdnmpg.dsldn    and
RLpsx25ln.billdn_flg = DBYES,
then RLrtdnmpg.billdsldn = RLpsbilldn.bill_dn:
if RLpsx25ln.billdn_flg = DBNO, then
RLrtdnmpg.billdsldn = NPA + RLrtdnmpg.dsldn where
NPA is the area code (attribute npa) from the
```

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```
RLnoccode tuple corresponding to the office code
(attribute nxx in RLnoccode) of the dsldn.
```

When a change is made in RLpsx25ln or RLpsbilldn with a match that RLpsx25ln.dd_number = RLrtdnmpg.dsldn, the corresponding tuple in RLrtdnmpg needs to be updated accordingly.

(2) If the key locdn of this tuple is a terminating DN assigned to a modem pool group, the billdsldn = 0.

**Attribute: billdsldn.digcnt**

**Fullname:** digit count.

**Attribute Description** digit count.

**Attribute: billdsldn.dn**

**Fullname:** directory number.

**Attribute Description** Directory number.

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# RTENVALM

## 1. Description

This relation describes the environmental alarm classification data for RTs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 1024 |
| page level | 0 |
| foldtype | DBDEFAULT |
| permutation type | un_perm |

## 3. Field Layout

```
RTENVALM    relid = 1749  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     rtname      DMCIRCUIT    (ushort)     <--- key
     cond1       DMCHAR25     (array [ 25 ] of char )
     cond2       DMCHAR25     (array [ 25 ] of char )
     cond3       DMCHAR25     (array [ 25 ] of char )
     cond4       DMCHAR25     (array [ 25 ] of char )
     cond5       DMCHAR25     (array [ 25 ] of char )
     cond6       DMCHAR25     (array [ 25 ] of char )
     cond7       DMCHAR25     (array [ 25 ] of char )
     cond8       DMCHAR25     (array [ 25 ] of char )
     cond9       DMCHAR25     (array [ 25 ] of char )
     cond10      DMCHAR25     (array [ 25 ] of char )
     cond11      DMCHAR25     (array [ 25 ] of char )
     cond12      DMCHAR25     (array [ 25 ] of char )
     cond13      DMCHAR25     (array [ 25 ] of char )
     cond14      DMCHAR25     (array [ 25 ] of char )
     dummy1      DMUNS6       (ushort: 6)
 (a) classif1    DMENVCLA     (enum: 2)
     dummy2      DMUNS6       (ushort: 6)
 (b) classif2    DMENVCLA     (enum: 2)
     dummy3      DMUNS6       (ushort: 6)
 (c) classif3    DMENVCLA     (enum: 2)
     dummy4      DMUNS6       (ushort: 6)
 (d) classif4    DMENVCLA     (enum: 2)
     dummy5      DMUNS6       (ushort: 6)
 (e) classif5    DMENVCLA     (enum: 2)
     dummy6      DMUNS6       (ushort: 6)
 (f) classif6    DMENVCLA     (enum: 2)
     dummy7      DMUNS6       (ushort: 6)
 (g) classif7    DMENVCLA     (enum: 2)
     dummy8      DMUNS6       (ushort: 6)
 (h) classif8    DMENVCLA     (enum: 2)
     dummy9      DMUNS6       (ushort: 6)
 (i) classif9    DMENVCLA     (enum: 2)
     dummy10     DMUNS6       (ushort: 6)
```

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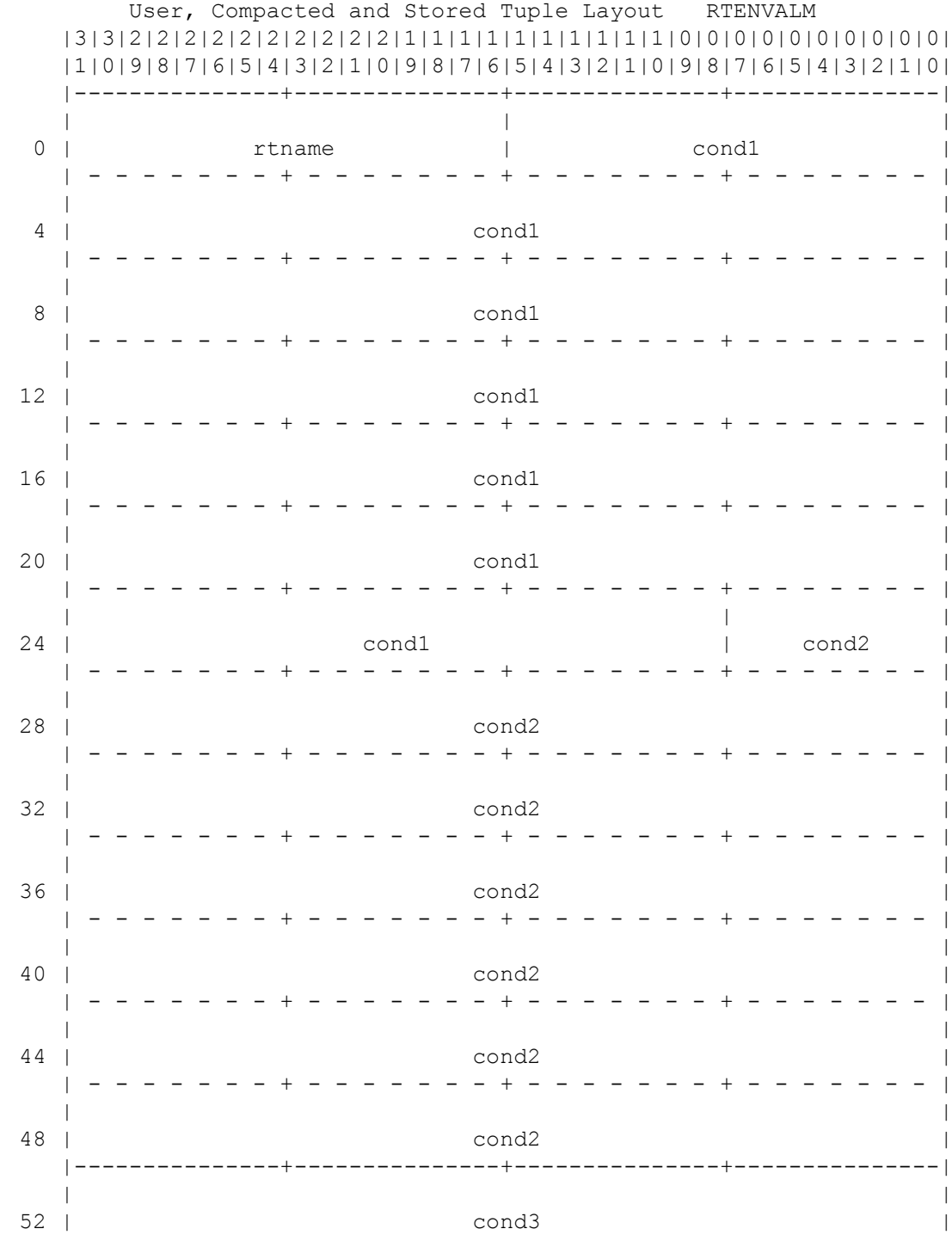
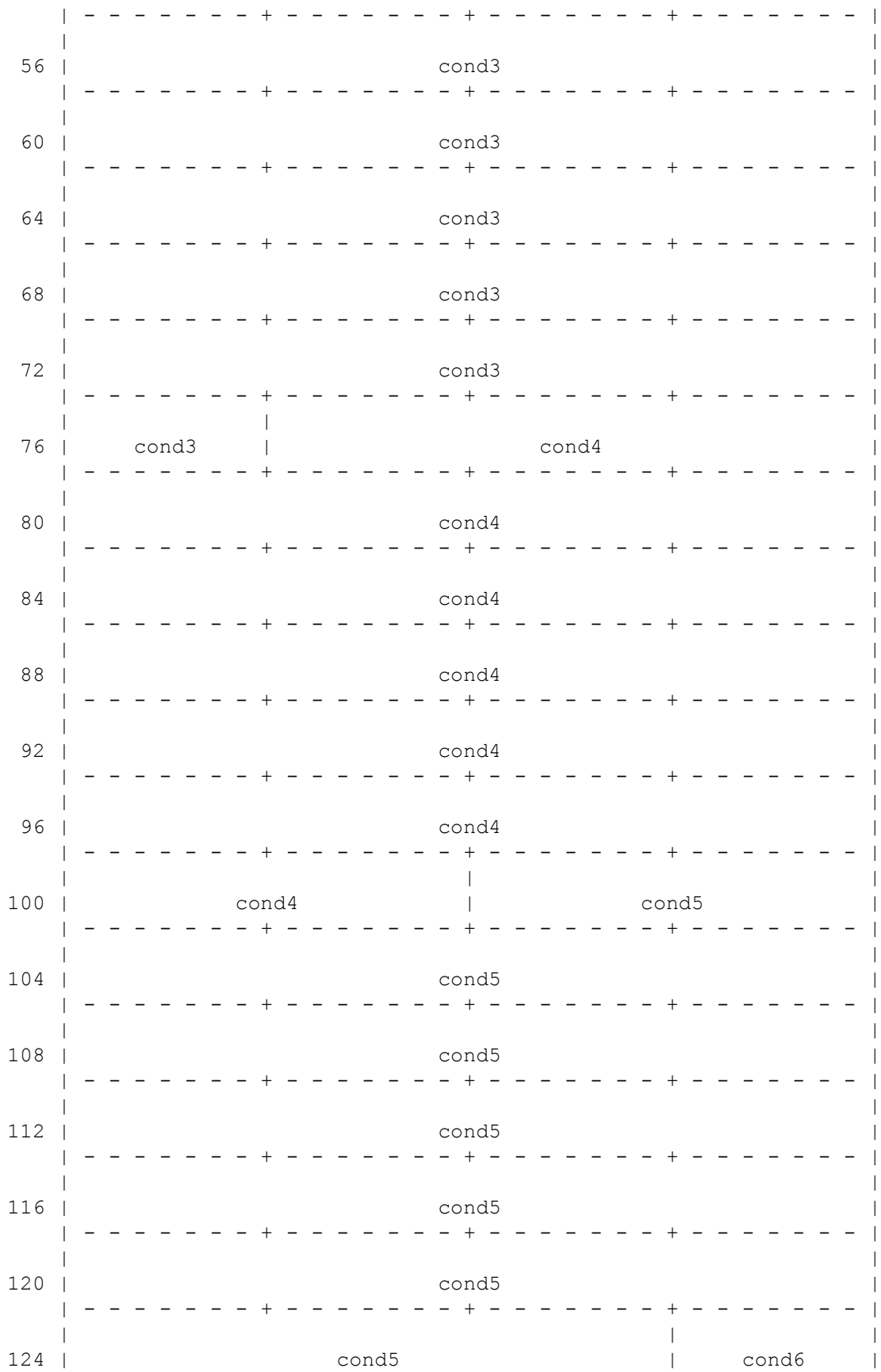
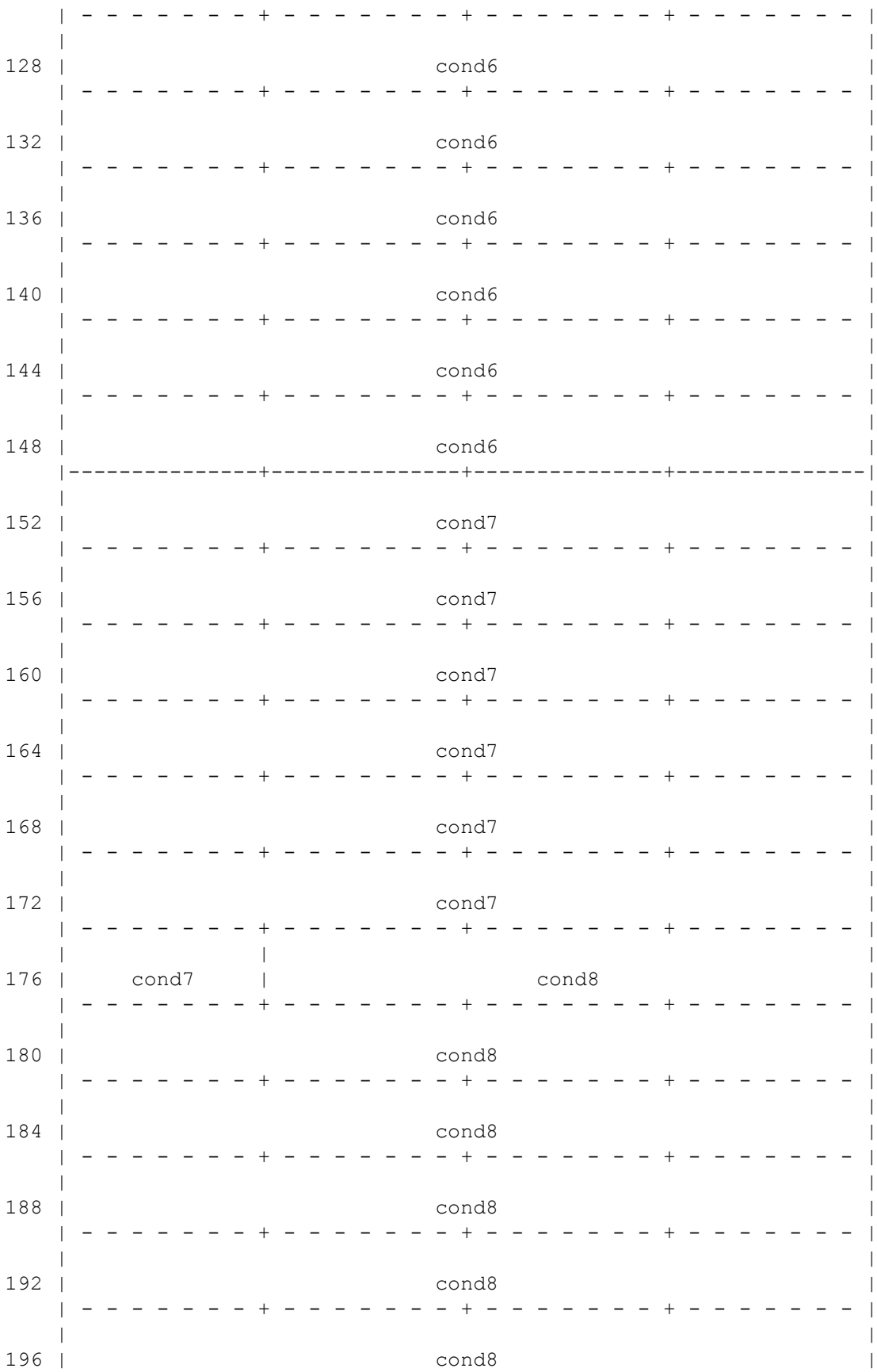
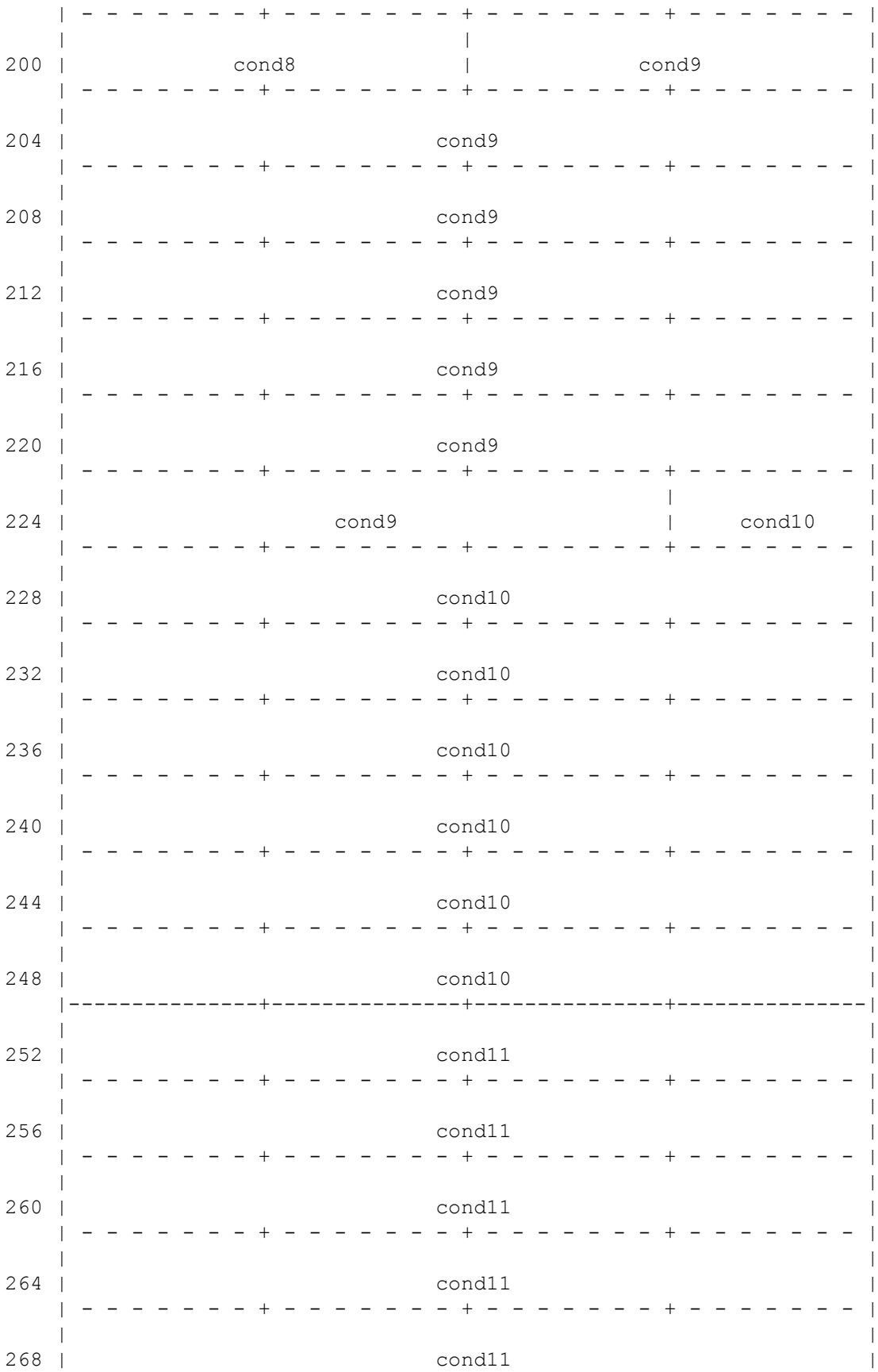
```
(j) classif10   DMENVCLA     (enum: 2)
    dummy11     DMUNS6       (ushort: 6)
(k) classif11   DMENVCLA     (enum: 2)
    dummy12     DMUNS6       (ushort: 6)
(l) classif12   DMENVCLA     (enum: 2)
    dummy13     DMUNS6       (ushort: 6)
(m) classif13   DMENVCLA     (enum: 2)
    dummy14     DMUNS6       (ushort: 6)
(n) classif14   DMENVCLA     (enum: 2)
```

User, Compacted and Stored Tuple Layout RTENVALM




56 cond3
60 cond3
64 cond3
68 cond3
72 cond3
76 cond3 cond4
80 cond4
84 cond4
88 cond4
92 cond4
96 cond4
100 cond4 cond5
104 cond5
108 cond5
112 cond5
116 cond5
120 cond5
124 cond5 cond6


128
cond6
132
cond6
136
cond6
140
cond6
144
cond6
148
cond6
152
cond7
156
cond7
160
cond7
164
cond7
168
cond7
172
cond7
176
cond7
cond8
180
cond8
184
cond8
188
cond8
192
cond8
196
cond8

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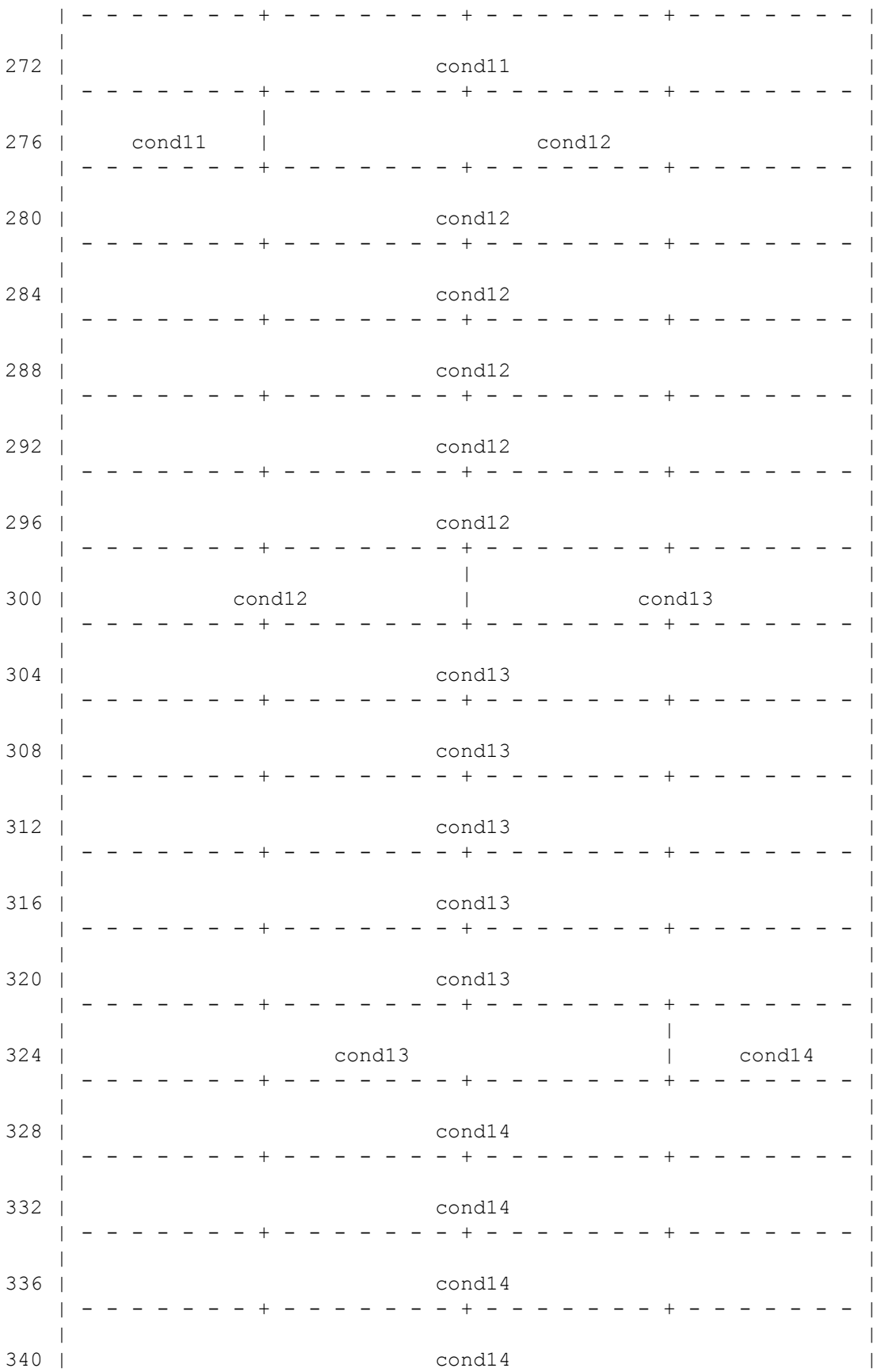
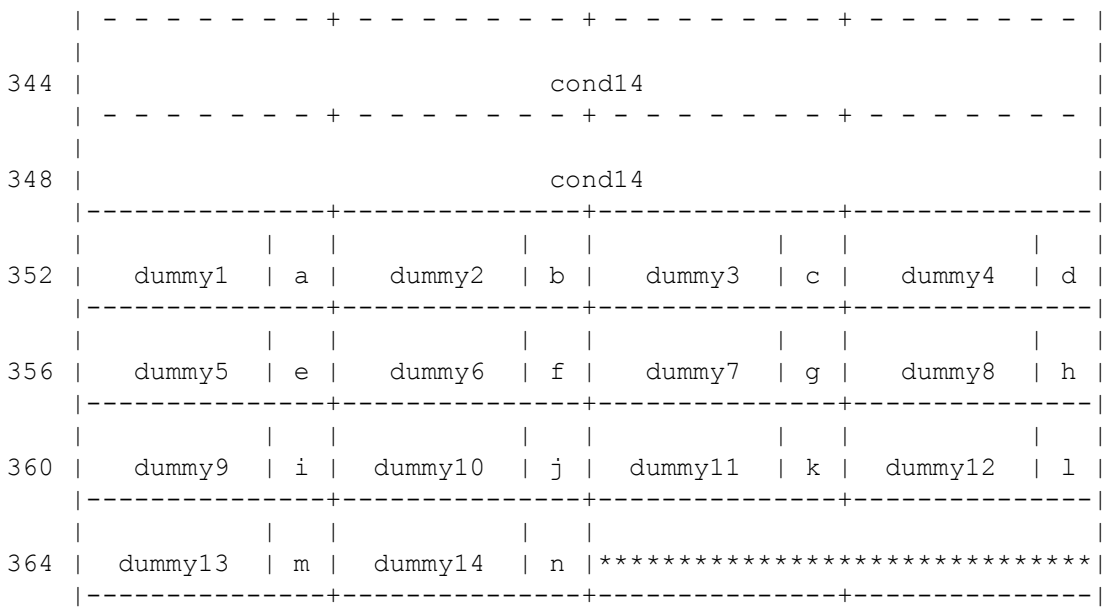

272
cond11
276
cond11
cond12
280
cond12
284
cond12
288
cond12
292
cond12
296
cond12
300
cond12
cond13
304
cond13
308
cond13
312
cond13
316
cond13
320
cond13
324
cond13
cond14
328
cond14
332
cond14
336
cond14
340
cond14




( 368 bytes )

```
domain alRTENVALM struct  (3 sub-attributes)
         rtname      unsigned short (ushort)
         cond        .28.fake     (array [ 350 ] of char )
         classif     .29.fake     (array [ 14 ] of .0fake )
         Structure Layout    alRTENVALM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             rtname            |              cond             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  4 |                             cond                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                    .
                                    .
                                    .
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
344 |                             cond                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
348 |                             cond                              |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
352 |                           classif                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
356 |                           classif                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
360 |                           classif                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
```

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```
364 |            classif            |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 368 bytes )
```

## 4. Population Rules for RLrtenvalm

**Relation Description**
Environmental Alarms and Conditions for TR303 Remote Terminals.

This relation maps the TR303 Remote Terminal (RT) name to the environmental alarm classifications and conditions for the RT.

**Attribute: rtname**

**Fullname:** TR303 RT Circuit Name

**Attribute Description** This is the circuit name for a TR303 RT.

**Attribute: classif1**

**Fullname:** First Environmental Alarm Classification

**Attribute Description** This is the first environmental alarm classification (minor, major, critical, or automatic) for this RT.

**Attribute: cond1**

**Fullname:** First Environmental Alarm Condition

**Attribute Description** This is the first environmental alarm condition for this RT.

**Attribute: classif2**

**Fullname:** Second Environmental Alarm Classification

**Attribute Description** This is the second environmental alarm classification (minor, major, critical, or automatic) for this RT.

**Attribute: cond2**

**Fullname:** Second Environmental Alarm Condition

**Attribute Description** This is the second environmental alarm condition for this RT.

**Attribute: classif3**

**Fullname:** Third Environmental Alarm Classification

**Attribute Description** This is the third environmental alarm classification (minor, major, critical, or automatic) for this RT.

**Attribute: cond3**

**Fullname:** Third Environmental Alarm Condition

**Attribute Description** This is the third environmental alarm condition for this RT.

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**Attribute: classif4**

**Fullname:** Fourth Environmental Alarm Classification

**Attribute Description** This is the fourth environmental alarm classification (minor, major, critical, or automatic) for this RT.

**Attribute: cond4**

**Fullname:** Fourth Environmental Alarm Condition

**Attribute Description** This is the fourth environmental alarm condition for this RT.

**Attribute: classif5**

**Fullname:** Fifth Environmental Alarm Classification

**Attribute Description** This is the fifth environmental alarm classification (minor, major, critical, or automatic) for this RT.

**Attribute: cond5**

**Fullname:** Fifth Environmental Alarm Condition

**Attribute Description** This is the fifth environmental alarm condition for this RT.

**Attribute: classif6**

**Fullname:** Sixth Environmental Alarm Classification

**Attribute Description** This is the sixth environmental alarm classification (minor, major, critical, or automatic) for this RT.

**Attribute: cond6**

**Fullname:** Sixth Environmental Alarm Condition

**Attribute Description** This is the sixth environmental alarm condition for this RT.

**Attribute: classif7**

**Fullname:** Seventh Environmental Alarm Classification

**Attribute Description** This is the seventh environmental alarm classification (minor, major, critical, or automatic) for this RT.

**Attribute: cond7**

**Fullname:** Seventh Environmental Alarm Condition

**Attribute Description** This is the seventh environmental alarm condition for this RT.

**Attribute: classif8**

**Fullname:** Eighth Environmental Alarm Classification

**Attribute Description** This is the eighth environmental alarm classification (minor, major, critical,

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or automatic) for this RT.

**Attribute: cond8**

**Fullname:** Eighth Environmental Alarm Condition

**Attribute Description** This is the eighth environmental alarm condition for this RT.

**Attribute: classif9**

**Fullname:** Ninth Environmental Alarm Classification

**Attribute Description** This is the ninth environmental alarm classification (minor, major, critical, or automatic) for this RT.

**Attribute: cond9**

**Fullname:** Ninth Environmental Alarm Condition

**Attribute Description** This is the ninth environmental alarm condition for this RT.

**Attribute: classif10**

**Fullname:** Tenth Environmental Alarm Classification

**Attribute Description** This is the tenth environmental alarm classification (minor, major, critical, or automatic) for this RT.

**Attribute: cond10**

**Fullname:** Tenth Environmental Alarm Condition

**Attribute Description** This is the tenth environmental alarm condition for this RT.

**Attribute: classif11**

**Fullname:** Eleventh Environmental Alarm Classification

**Attribute Description** This is the eleventh environmental alarm classification (minor, major, critical, or automatic) for this RT.

**Attribute: cond11**

**Fullname:** Eleventh Environmental Alarm Condition

**Attribute Description** This is the eleventh environmental alarm condition for this RT.

**Attribute: classif12**

**Fullname:** Twelfth Environmental Alarm Classification

**Attribute Description** This is the twelfth environmental alarm classification (minor, major, critical, or automatic) for this RT.

**Attribute: cond12**

**Fullname:** Twelfth Environmental Alarm Condition

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**Attribute Description** This is the twelfth environmental alarm condition for this RT.

**Attribute: classif13**

**Fullname:** Thirteenth Environmental Alarm Classification

**Attribute Description** This is the thirteenth environmental alarm classification (minor, major, critical, or automatic) for this RT.

**Attribute: cond13**

**Fullname:** Thirteenth Environmental Alarm Condition

**Attribute Description** This is the thirteenth environmental alarm condition for this RT.

**Attribute: classif14**

**Fullname:** Fourteenth Environmental Alarm Classification

**Attribute Description** This is the fourteenth environmental alarm classification (minor, major, critical, or automatic) for this RT.

**Attribute: cond14**

**Fullname:** Fourteenth Environmental Alarm Condition

**Attribute Description** This is the fourteenth environmental alarm condition for this RT. **Defines:** "db/DMcircuit.h"

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# RTFTRKEY

## 1. Description

A customer's feature key is used to activate/deactivate/change parameter for a maintenance control center (MCC) feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4096 |
| expected number of tuples | 3 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
RTFTRKEY    relid = 520   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     scan_port   DMGPORT      (struct)  <--- key
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     lport       DMLPORT      (ushort: 16)
     feat_id     DMMCC_FID    (ushort)
     on_actset   DMIDP_GPID   (ushort)
     of_actset   DMIDP_GPID   (ushort)
     ofhk_actn   DMMCACTN     (enum: 9)
 (a) lpt_type    DMLPT_TYPE   (enum: 2)
     onhk_actn   DMMCACTN     (enum: 9)
     lport_mod   DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout   RTFTRKEY
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+========== scan_port ==========+===============|
    |                                |                |               |
  0 |             member             |****************|     module    |
    |================+===============+================+===============|
    |                                |                                |
  4 |             lport              |             feat_id            |
    |----------------+---------------+----------------+---------------|
    |                                |                                |
  8 |           on_actset            |           of_actset            |
    |----------------+---------------+----------------+---------------|
    |                  |   |         |                  |             |
 12 |    ofhk_actn     | a |*********|    onhk_actn     |*************|
    |----------------+---------------+----------------+---------------|
    |                |                                                |
 16 |   lport_mod    |************************************************|
    |----------------+---------------+----------------+---------------|
       ( 20 bytes )
```

## 4. Population Rules for RLrtftrkey

**Relation Description**
Customer's feature key.

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A customer's feature key is used to activate/deactivate/change parameter for an MCC feature.

**Attribute: scan_port**

**Fullname:** Scanpoint port.

**Attribute Description** This attribute indicates a scanpoint port and is the key for this relation. It is divided into sub-attributes scan_port.member and scan_port.module.

Verify existence of tuple in RLfc_line AND a tuple in RLfc_porttyp for this key port. In RLfc_porttyp the class of service should be FC_FEATUREKEY.

**Attribute: scan_port.member**

**Fullname:** Port name of a port.

**Attribute Description**Port name of a port.

**Attribute: scan_port.module**

**Fullname:** IM number.

**Attribute Description**The IM number that this port terminates on.

**Attribute: lport**

**Fullname:** Logical port.

**Attribute Description** This attribute indicates the logical port of the user which is the control lport for the key. The MCC features assigned to this lport will be activated/deactivated or individualized dial plan (IDP) alternate code treatment set number changed.

```
Dependencies: Verify existence of tuple in fc_line where
RLfc_line(RLlpt_pt(lport,lpt_type).port, party)
.lport = RLrtftrkey.lport AND where
RLfc_line(RLlpt_pt(lport, lpt_type).port, party)
.lpt_type = RLrtftrkey.lpt_type.
```

**Attribute: lpt_type**

**Fullname:** Logical port type.

**Attribute Description**Logical port type of the user.

**Attribute: lport_mod**

**Fullname:** Logical port module.

**Attribute Description**The switching module on which the lport is located.

**Attribute: feat_id**

**Fullname:** Feature id.

**Attribute Description**MCC feature id that is assigned to the control line, and is invoked by operating the console key corresponding to RLrtftrkey.scan_port.

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```
If RLrtftrkey.feat_id corresponds to a terminal feature like ACOF,
verify existence of tuple in RLtrmfeats with cntl port as key.
This RLtrmfeats tuple must have an attribute such that
RLtrmfeats.ftent[n].fid = feat_id.
If RLrtftrkey.feat_id corresponds to a DN feature like Night Service,
verify existence of tuple in RLdn_feats for the primary DN
of this control port. This RLdn_feats tuple must have an attribute
such that RLdn_feats.ftent[n].fid = feat_id.
```

**Attribute: on_actset**

**Fullname:** Alternate code treatment set number.

**Attribute Description** Individualized dialing plan (IDP) alternate code treatment set number to be used for ACN_ACT_ON and ACN_ACTOFF actions.

Verify existence of tuple in RLtrmfeats with control port as key. This RLtrmfeats tuple must have an attribute assigning an IDP feature with rlIDP_CF.act_alwd = DBYES.

**Attribute: of_actset**

**Fullname:** Alternate code treatment set number.

**Attribute Description** IDP alternate code treatment set number to be used for ACN_ACT_ON and ACN_ACTOFF actions.

Verify existence of tuple in RLtrmfeats with cntl port as key. This RLtrmfeats tuple must have an attribute assigning an IDP feature with rlIDP_CF.act_alwd = DBYES.

**Attribute: ofhk_actn**

**Fullname:** Action to be taken on onhook.

**Attribute Description** MCC action to be taken on offhook when this key is depressed.

IF != ACN_NONE, the corresponding MCC action should be listed in RLfacftdsc.action[n] for this feat_id key.

**Attribute: onhk_actn**

**Fullname:** Action to be taken on onhook.

**Attribute Description** MCC action to be taken on onhook when this key is released.

IF != ACN_NONE, the corresponding MCC action should be listed in RLfacftdsc.action[n] for this feat_id key.

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# RTGRPDN

## 1. Description

Main DN and optional additional DNs for global multiline hunt groups accessed during stand alone. This relation is used only during stand alone operation to translate a dialed MLHG DN located on another module to the group number. Another local member of that same group can then be hunted during stand alone.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
RTGRPDN     relid = 439   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    GCRTG
     member       DMMEMBER      (ushort)
 (a) term_name    DMPARTY       (ushort: 4)
     grp          DMPORTGRP     (struct)
         grpnum       DMGRPNUM      (ushort)
 (b)     grptype      DMPTYPE       (enum: 1)
     grpdn        DMLOCDN       (struct)  <--- key, compacted
         noc          DMNOC         (ushort: 8)
         digits       DMLOCDIG      (array [ 4 ] of char )
            User Tuple Layout   RTGRPDN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |       |                       |
  0 |              member             |   a   |***********************|
    |===============+============= grp =============+===============|
    |                                 |               | |               |
  4 |              grpnum             |*************|b|***************|
    |===============+============ grpdn ============+===============|
    |                |                |                                 |
  8 |****************|      noc       |             digits              |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                 |                                 |
 12 |              digits             |*********************************|
    |================+===============+===============+================|
       ( 16 bytes )
     member       DMMEMBER      (ushort)
 (a) term_name    DMPARTY       (ushort: 4)
     grp          DMPORTGRP     (struct)
         grpnum       DMGRPNUM      (ushort)
 (b)     grptype      DMPTYPE       (enum: 1)
     grpdn        DMCLOCDN      (struct)  <--- key, compacted
         noc          DMNOC         (ushort: 8)
         dig3         DMUNS4        (ushort: 4)
```

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```
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
         Compacted Tuple Layout    RTGRPDN
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |       |                     |
 0 |             member              |   a   |*********************|
   |===============+============= grp =============+===============|
   |                                 |             | |               |
 4 |             grpnum              |*************|b|***************|
   |===============+============ grpdn ============+===============|
   |                 |               |       |       |       |     |
 8 |***************|      noc      |  dig3 |  dig1 |  dig4 |  dig2 |
   |===============+===============+===============+===============|
   |                                                               |
12 |***************************************************************|
   |---------------+---------------+---------------+---------------|
     ( 16 bytes )
    member      DMMEMBER     (ushort)
(a) term_name   DMPARTY      (ushort: 4)
    grp         DMPORTGRP    (struct)
        grpnum      DMGRPNUM     (ushort)
(b)     grptype     DMPTYPE      (enum: 1)
    grpdn       DMCLOCDN     (struct)  <--- key, compacted
        noc         DMNOC        (ushort: 8)
        dig3        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
          Stored Tuple Layout      RTGRPDN
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |       |                     |
 0 |             member              |   a   |*********************|
   |===============+============= grp =============+===============|
   |                                 |             | |               |
 4 |             grpnum              |*************|b|***************|
   |===============+============ grpdn ============+===============|
   |                 |               |       |       |       |     |
 8 |***************|      noc      |  dig3 |  dig1 |  dig4 |  dig2 |
   |===============+===============+===============+===============|
     ( 12 bytes )
```

## 4. Population Rules for RLrtgrpdn

**Relation Description**
DNs in Global MLHGs for SM Stand-alone.

Main DN and optional additional DNs for global multiline hunt groups accessed during stand alone. This relation is used only during stand alone operation to translate a dialed MLHG DN located on another module to the group number. Another local member of that same group can then be hunted during stand alone.

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**Attribute: grpdn**

**Fullname:** global multiline hunt group DN

**Attribute Description** This is group DN or member DN associated with a global MLHG. The list of DNs to be populated in RLrtgrpdn is determined as follows:

(1) Make a list of all DNs where: RLrt_dntran.termclass = RTTC_PORTGRP or RTTC_INWATS and RLrt_dntran.ucd_muph = DBNO.

(2) For each DN in this list of DNs, delete all MLHG DNs associated with local groups:

(a) Get the port associated with the MLHG DN: X = RLrt_dntran.portname where the key is - RLrt_dntran.dn = grpdn

(b) Get the group number associated with the port: Y = RLpggpmap.portgrp.grpnum where the key is - RLpggpmap.port = X

(c) Determine if it is a global group: Z = RLrt_mhg.gblgrp where the key is - RLrt_mhg.grpnum = Y if Z = DBNO, delete the DN from the list.

The resulting list of DNs that are not on RSMs or SMs with the Stand Alone option and which are part of a group with at least one member being on an RSM or SM with the Stand Alone option should be populated in RLrtgrpdn.

**Attribute: grpdn.noc**

**Fullname:** Normalized office code

**Attribute Description** Normalized office code

**Attribute: grpdn.digits**

**Fullname:** local dn minus the office code

**Attribute Description** local dn minus the office code

**Attribute: grp**

**Fullname:** multiline hunt group number and type

**Attribute Description** Group number and group type associated with the group DN. This is obtained by reading RLrt_dntran with 'grpdn' as the key. The value of RLrt_dntran.portname is then used as the key to RLpggpmap. This attribute is then set equal to RLpggpmap.portgrp.

**Attribute: grp.grpnum**

**Fullname:** group number

**Attribute Description** group number

**Attribute: grp.grptype**

**Fullname:** group type

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**Attribute Description** group type

**Attribute: member**

**Fullname:** member number of this DN

**Attribute Description** This is obtained by reading RLrt_dntran with 'grpdn' as the key. The value of RLrt_dntran.portname is then used as the key to RLpggpmap. This attribute is then set equal to RLpggpmap.member.

**Attribute: term_name**

**Fullname:** terminating port name

**Attribute Description** This is obtained by reading RLrt_dntran with 'grpdn' as the key. This attribute is then set equal to RLrt_dntran.term_name.

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# RTICITK

## 1. Description

Associates an ISAT group or individual type group and trunk type and tgn with subgrp, member map and ici index. Either this relation or RLrtisatmap is used during ISAT hunting to acquire member map and ici index.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8191 |
| expected tuples in relation | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| application | GCRTG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
RTICITK     relid = 907   DBSTATIC   DBACC_HASH  DBPRAM    LPFR    GCRTG
 (a) grptyp      DMICGPTYP    (enum: 1)     <--- key
     orig_tgn    DMGRUPNM     (ushort: 13)     <--- key
     icigrp      DMUNS16      (ushort)     <--- key
 (b) trktype     DMICTKTYP    (enum: 2)
     subgrp      DMUNS4       (ushort: 4)
     ici_idx     DMUNS4       (ushort: 4)
     memb0map    DMISATMAP    (uchar)
     memb1map    DMISATMAP    (uchar)
     memb2map    DMISATMAP    (uchar)
     memb3map    DMISATMAP    (uchar)
     memb4map    DMISATMAP    (uchar)
     memb5map    DMISATMAP    (uchar)
     memb6map    DMISATMAP    (uchar)
     memb7map    DMISATMAP    (uchar)
         User, Compacted and Stored Tuple Layout    RTICITK
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | |                           |   |                               |
  0 |a|         orig_tgn          |***|              icigrp           |
    |---------------+---------------+---------------+---------------|
    |   |       |       |           |               |               |
  4 | b | subgrp|ici_idx|***********|    memb0map   |    memb1map   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  8 |    memb2map   |    memb3map   |    memb4map   |    memb5map   |
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
 12 |    memb6map   |    memb7map   |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
domain alRTICITK  struct  (7 sub-attributes)
 (a)     grptyp      .0fake       (enum)
         orig_tgn    .3.fake      (ushort: 13)
         icigrp      unsigned short (ushort)
```

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```
(b)     trktype     .1fake       (enum)
        subgrp      .4.fake      (ushort: 4)
        ici_idx     .5.fake      (ushort: 4)
        membmap     .6.fake      (array [ 8 ] of unsigned char )
        Structure Layout      alRTICITK
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   | |                           |   |                               |
 0 |a|         orig_tgn          |***|              icigrp           |
   |---------------+---------------+---------------+---------------|
   |   |       |       |           |                               |
 4 | b | subgrp|ici_idx|***********|            membmap            |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                                               |
 8 |                             membmap                           |
   | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
   |                                 |                             |
12 |             membmap             |*****************************|
   |---------------+---------------+---------------+---------------|
      ( 16 bytes )
```

## 4. Population Rules for RLrticitk

**Relation Description**
Associates an ISAT group or individual type group and trunk type and tgn with subgrp, member map and ici index.

Either this relation or RLrtisatmp is used during ISAT hunting to acquire member map and ici index.

**Attribute: grptyp**

**Fullname:** Group Type

**Attribute Description** If grptype is IC_MLHG, a hunt group in RLrt_mhg must exist such that the RLrt_mhg.htype of RTH_ISAT and the RLrt_mhg.isat_idx of that tuple must correspond to RLrticitk.icigrp.

**Attribute: orig_tgn**

**Fullname:** Trunk Group Number

**Attribute Description** Trunk group number that this icigrp can receive calls from. There must be a tuple in RLrt_trkg keyed by this orig_tgn.

**Attribute: icigrp**

**Fullname:** Incoming Call Identification Group

**Attribute Description** isat_idx of group of lines which share designations of tie trunk groups (TK_TIE), fx trunk groups (TK_FX), or CNET trunk groups (TK_CNET), FTS trunk groups (TK_FTS) or terminal group number.

This tuple is only populated for icigrp's where the corresponding ici is any one listed. The corresponding RLrticitk.subgrp is also shown.

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```
ici     subgrp    ici      subgrp ici      subgrp
ICI_FX1    0      ICI_TIE1   0    ICI_CNET   0
ICI_FX2    1      ICI_TIE2   1    ICI_FTS    0
ICI_FX3    2      ICI_TIE3   2
ICI_FX4    3      ICI_TIE4   3
ICI_FX5    4      ICI_TIE5   4
ICI_FX6    5      ICI_TIE6   5
ICI_FX7    6      ICI_TIE7   6
ICI_FX8    7      ICI_TIE8   7
```

When RLicx_ici.ici1-16 is populated with at least one of the ici values then a tuple is needed in RLrticitk.

If grptype is IC_MLHG, a hunt group in RLrt_mhg must exist such that the RLrt_mhg.htype of RTH_ISAT and the RLrt_mhg.isat_idx of that tuple must correspond to this icigrp.

**Attribute: trktype**

**Fullname:** trunk type

**Attribute Description** The value chosen depends on the corresponding ici and the servclass of trunks in the group.

```
Use FX for ici = ICI_FX1-8.
Use TIE for ici = ICI_TIE1-8.
Use CNET for ici = ICI_CNET.
Use FTS for ici = ICI_FTS.
For members in the trunk group
if RLfc_porttyp.servclass = FC_PF or FC_FPLASH
   & RLfc_porttyp.lp_type = FXGRND or FXLOOP then
    use TK_FX
else
    use TK_TIE or TK_CNET
```

**Attribute: subgrp**

**Fullname:** The Subgroup Within the ISAT Group

**Attribute Description** The subgroup within the ISAT group which is designated to serve calls from orig_tgn. If trktype = FX or TIE, then subgrp range 0-7. If trktype = CNET, then subgrp must be 0. If trktype = FTS, then subgrp must be 0. (See RLrticitk.icigrp description).

```
NOTE:  This subgrp value is NOT related to
       the sub_grp value defined in RLrtdn_mhg
       for LDN1-8 or WAT1-5.
```

**Attribute: ici_idx**

**Fullname:** Index of the ICI in the group.

**Attribute Description** Index of the ICI in the group. (Irrelevant for individual groups because only for hunting.) Values: 0-15. Used as index to UCD vari<ables in dynamic relation rlISATUCD, and for ICI subqueues.

**Attribute: memb0map**

**Fullname:** A bit map of the members of an ISAT hunt group.

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**Attribute Description** A bit map of the members of an ISAT hunt group, according to whether they handle the ICI represented by trktype and the subgrp.

Each of 8 attributes contains 8 bits (64 bits). Each bit corresponds to a member of a multiline hunt group. The least significant bit of each element represents member 1,9,17,25,33,41,49,57 respectively. The most significant bit of each element represents member 8,16,24,32,40,48,56, 63 respectively (64 is not used).

A value of 1 means that the member handles this ICI. A value of 0 means that it does not.

```
Dependencies:
At least 1 bit must be set to 1.
If there does not exist a tuple in RLgroup_port with key
value:
    key   RLgroup_port.portgrp.grpnum  = RLrt_mhg.grpnum,
    key   RLgroup_port.portgrp.grptype = TM_LINE,
    key   RLgroup_port.member          = bit position,
then membNmap of the corresponding bit position must
be 0.
```

Obtain RLrt_mhg.grpnum by finding an RLrt_mhg tuple with RLrt_mhg.htype = RTH_ISAT and isat_idx = icigrp.

**Attribute: memb[*]map**

**Fullname:** A bit map of the members of an IAST hunt group.

**Attribute Description** A bit map of the members of an ISAT hunt group, according to whether they handle the ICI represented by trktype and the subgrp.

Each of 8 attributes contains 8 bits (64 bits). Each bit corresponds to a member of a multiline hunt group. The least significant bit of each element represents member 1,9,17,25,33,41,49,57 respectively. The most significant bit of each element represents member 8,16,24,32,40,48,56, 63 respectively (64 is not used).

A value of 1 means that the member handles this ici. A value of 0 means that it does not.

Dependencies: At least 1 bit must be set to 1.

```
If there does not exist a tuple in RLgroup_port with key
value:
    key   RLgroup_port.portgrp.grpnum = RLrt_mhg.grpnum,
    key   RLgroup_port.portgrp.grptyp = TM_LINE,
    key   RLgroup_port.member         = bit position,
then membNmap of the corresponding bit position must
be 0.
```

Obtain RLrt_mhg.grpnum by finding an RLrt_mhg tuple with RLrt_mhg.htype = RTH_ISAT and isat_idx = icigrp.

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# RTISATMP

## 1. Description

Associates an ISAT group and ICI with member map, priority and ici index.

Maximum tuples derived from multiplying the maximum number of ISAT groups by 16 ICI's per ISAT group. The expected tuple and density data was extracted from a study of field equipment.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples - 63 ISAT grps x 16 ICI's per grp | 1008 |
| expected number of tuples | 8 |
| density | 21 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| application | GCRTG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
RTISATMP    relid = 908   DBSTATIC   DBACC_HASH  DBPRAM    LPFR    GCRTG
     ici         DMICI        (enum: 8)  <--- key
     isat_idx    DMISATGRP    (ushort: 6)  <--- key
     ici_idx     DMUNS4       (ushort: 4)
     memb0map    DMISATMAP    (uchar)
     memb1map    DMISATMAP    (uchar)
     memb2map    DMISATMAP    (uchar)
     memb3map    DMISATMAP    (uchar)
     memb4map    DMISATMAP    (uchar)
     memb5map    DMISATMAP    (uchar)
     memb6map    DMISATMAP    (uchar)
     memb7map    DMISATMAP    (uchar)
         User, Compacted and Stored Tuple Layout   RTISATMP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |           |   |       |       |               |
  0 |      ici      |  isat_idx |***|ici_idx|*******|    memb0map   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |    memb1map   |    memb2map   |    memb3map   |    memb4map   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  8 |    memb5map   |    memb6map   |    memb7map   |***************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
domain alRTISATMP   struct  (4 sub-attributes)
         ici         .3.fake      (enum)
         isat_idx    .4.fake      (ushort: 6)
         ici_idx     .5.fake      (ushort: 4)
         membmap     .6.fake      (array [ 8 ] of unsigned char )
         Structure Layout      alRTISATMP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
```

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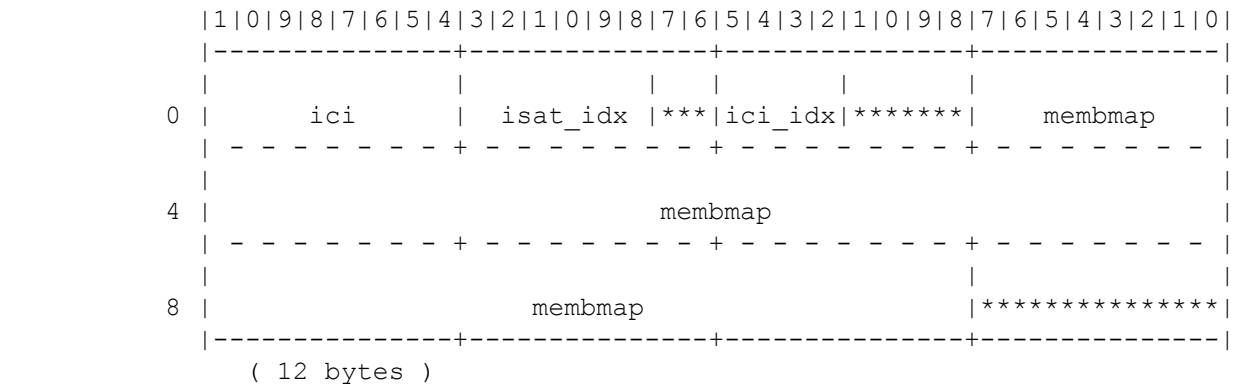


## 4. Population Rules for RLrtisatmp

**Relation Description**
ISAT member map.

Associates an ISAT group and ICI with member map, priority and ici index.

A tuple must exist for each ici/isat_idx combination where the tuple in RLrt_mhg corresponding to isat_idx has RLrt_mhg.isat_idx != 0 and the following conditions of ici values are met:
Possible values for RLrtisatmp.ici are:

```
ICI_LDN1-8
ICI_WAT1-5
ICI_CFBL
ICI_CFDA
ICI_CFV
ICI_CFOH
ICI_ICPT
ICI_DCL
ICI_PPFOVR
ICI_PPFLSH
ICI_PPIMMD
ICI_PPPRIO
ICI_PPEXEC
ICI_PPROUT
ICI_EMER
ICI_RLT
ICI_QUE
ICI_FXICN
ICI_TIEICN
ICI_FTSICN
```

All other ICI's are excluded from this relation.

The following ICI values correspond to (RLrtdn_mhg.subgrp) in the ISAT group.

| ici | subgrp | ici | subgrp |
|---|---|---|---|
| ICI_LDN1 | 0 | ICI_WAT1 | 0 |
| ICI_LDN2 | 1 | ICI_WAT2 | 1 |
| ICI_LDN3 | 2 | ICI_WAT3 | 2 |
| ICI_LDN4 | 3 | ICI_WAT4 | 3 |
| ICI_LDN5 | 4 | ICI_WAT5 | 4 |
| ICI_LDN6 | 5 | | |
| ICI_LDN7 | 6 | | |

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ICI_LDN8 7

**Attribute: ici**

**Fullname:** Incoming call id.

**Attribute Description** Incoming call identification - an enumerated value ISDN Call Identification (ICI's listed previously)

**Attribute: isat_idx**

**Fullname:** ISAT index.

**Attribute Description** ISAT index corresponding to hunt group.

**Attribute: ici_idx**

**Fullname:** Index of the ICI in the group.

**Attribute Description** Used as index to UCD start hunt variables and for queuing and dequeuing calls in dynamic relation RLisatucd.

Allocated sequentially as listed in RLicx_ici. There cannot be two tuples in RLrtisatmp such that the isat_idx is the same and ici_idx is also the same.

**Attribute: memb[*]map**

**Fullname:** A bit map of the member.

**Attribute Description** A bit map of the members of an ISAT hunt group, according to whether they handle these ICI's.

Each of the 8 attributes contain 8 bits (64 bits). Each bit corresponds to a member of a multiline hunt group. The least significant bit of each element represents member 1,9,17,25,33,41,49,57 respectively. The most significant bit of each element represents member 8,16, 24,32,40,48,56, 63 respectively (64 is not used). A value of 1 means that the member handles this ici. A value of 0 means that it does not.

At least 1 bit must be set to 1. (not enforced by RC/V)

If there does not exist a tuple in RLgroup_port with key value:

```
key   RLgroup_port.portgrp.grpnum = RLrtdn_mhg.grpnum,
key   RLgroup_port.portgrp.grptyp = TM_LINE,
key   RLgroup_port.member         = bit position,
then membNmap of the corresponding bit position must be 0.
```

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# RTLIST_G

## 1. Description

This relation is the storage relation for the LDP route list (RLrtlist).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16382 |
| expected tuples | 300 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LPFR |
| application | GCRTG |
| relation type | DBSTORAGE |
| ks key store | DBNO |
| foldtype | DBGC31 |
| gkidxrel reverse index | rlRTLIST_I |
| permutation type | un_perm |

## 3. Field Layout

```
RTLIST_G    relid = 2932  DBSTORAGE  DBACC_GK    DBPRAM    LPFR    GCRTG
     gkRTLIST_G  DMGK14       (ulong: 14) <--- key, not stored
 (a) pad0        DMUNS2       (ushort: 2)
     ri0         DMRTEIDX     (ushort: 14)
 (b) pad1        DMUNS2       (ushort: 2)
     ri1         DMRTEIDX     (ushort: 14)
 (c) pad2        DMUNS2       (ushort: 2)
     ri2         DMRTEIDX     (ushort: 14)
 (d) pad3        DMUNS2       (ushort: 2)
     ri3         DMRTEIDX     (ushort: 14)
         User and Compacted Tuple Layout   RTLIST_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|         gkRTLIST_G            |
    |---------------+---------------+---------------+---------------|
    |   |                           |   |                           |
  4 | a |            ri0            | b |            ri1            |
    |---------------+---------------+---------------+---------------|
    |   |                           |   |                           |
  8 | c |            ri2            | d |            ri3            |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
 (a) pad0        DMUNS2       (ushort: 2)
     ri0         DMRTEIDX     (ushort: 14)
 (b) pad1        DMUNS2       (ushort: 2)
     ri1         DMRTEIDX     (ushort: 14)
 (c) pad2        DMUNS2       (ushort: 2)
     ri2         DMRTEIDX     (ushort: 14)
 (d) pad3        DMUNS2       (ushort: 2)
     ri3         DMRTEIDX     (ushort: 14)
           Stored Tuple Layout     RTLIST_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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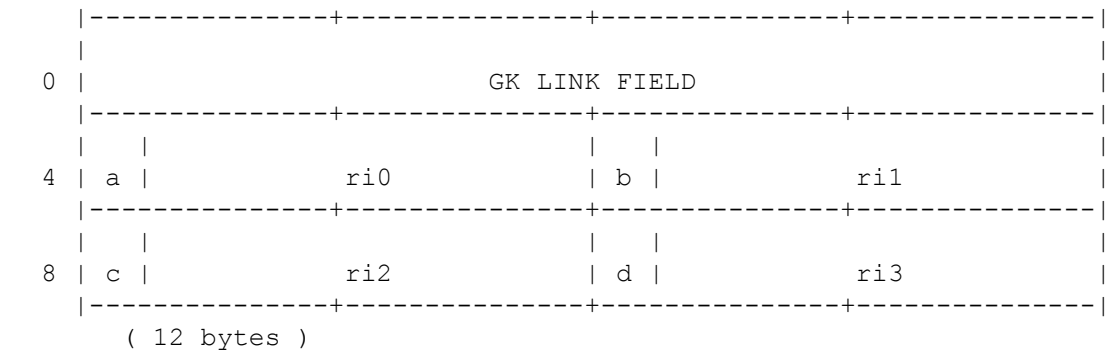


## 4. Population rules for RLrtlist_g

### Relation Description

There are no population rules for this relation.

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# RTLIST_R

## 1. Description

This relation is the root storage relation for the LDP route list (RLrtlist).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16382 |
| expected tuples | 300 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| application | GCRTG |
| relation type | DBSTORAGE |

## 3. Field Layout

```
RTLIST_R    relid = 2931  DBSTORAGE  DBACC_HASH  DBPRAM    LPFR    GCRTG
     prim_ri     DMRTEIDX     (ushort: 14) <--- key
     riptr0      DMGK14       (ulong: 14)
 (a) pad_r1      DMUNS2       (ushort: 2)
     riptr1      DMGK14       (ulong: 14)
     riptr2      DMGK14       (ulong: 14)
     riptr3      DMGK14       (ulong: 14)
     pad_r2      DMUNL11      (ulong: 11)
     count       DMUNS5       (ushort: 5)
         User, Compacted and Stored Tuple Layout   RTLIST_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |   |   |
  0 |          prim_ri              |           riptr0              | a |***|
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
  4 |           riptr1              |           riptr2              |*******|
    |---------------+---------------+---------------+---------------|
    |                               |                       |       |   |
  8 |           riptr3              |        pad_r2         |  count  |***|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population rules for RLrtlist_r

### Relation Description

There are no population rules for this relation.

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# RTLIST

## 1. Description

This relation contains the LDP route list.

This is a virtual relation. The Root Storage Relation is RLrtlist_r.G. The tree diagram Figure 1 depicts the stored structure of virtual relation RTLIST.

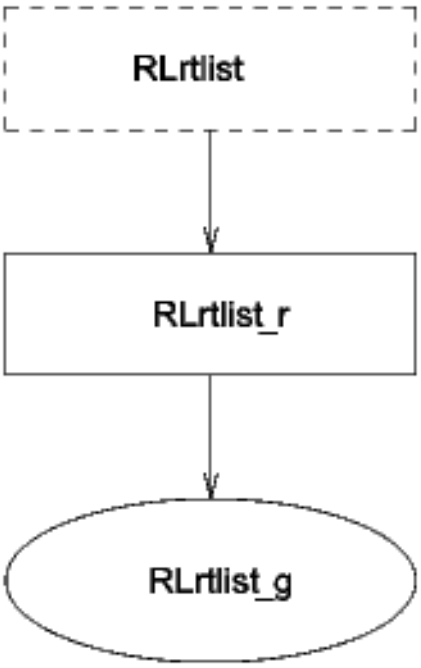


**Figure 1 Virtual Relation RTLIST**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LPFR |
| application | GCRTG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
RTLIST      relid = 2930  DBSTATIC   DBACC_OPV   DBNOTODD  LPFR    GCRTG
 (a) pad_r1       DMUNS2       (ushort: 2)
     prim_ri      DMRTEIDX     (ushort: 14) <--- key
     pad_r2       DMUNL11      (ulong: 11)
     count        DMUNS5       (ushort: 5)
 (b) pad0         DMUNS2       (ushort: 2)
     ri0          DMRTEIDX     (ushort: 14)
 (c) pad1         DMUNS2       (ushort: 2)
     ri1          DMRTEIDX     (ushort: 14)
 (d) pad2         DMUNS2       (ushort: 2)
     ri2          DMRTEIDX     (ushort: 14)
 (e) pad3         DMUNS2       (ushort: 2)
     ri3          DMRTEIDX     (ushort: 14)
```

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```
(f) pad4        DMUNS2       (ushort: 2)
    ri4         DMRTEIDX     (ushort: 14)
(g) pad5        DMUNS2       (ushort: 2)
    ri5         DMRTEIDX     (ushort: 14)
(h) pad6        DMUNS2       (ushort: 2)
    ri6         DMRTEIDX     (ushort: 14)
(i) pad7        DMUNS2       (ushort: 2)
    ri7         DMRTEIDX     (ushort: 14)
(j) pad8        DMUNS2       (ushort: 2)
    ri8         DMRTEIDX     (ushort: 14)
(k) pad9        DMUNS2       (ushort: 2)
    ri9         DMRTEIDX     (ushort: 14)
(l) pad10       DMUNS2       (ushort: 2)
    ri10        DMRTEIDX     (ushort: 14)
(m) pad11       DMUNS2       (ushort: 2)
    ri11        DMRTEIDX     (ushort: 14)
(n) pad12       DMUNS2       (ushort: 2)
    ri12        DMRTEIDX     (ushort: 14)
(o) pad13       DMUNS2       (ushort: 2)
    ri13        DMRTEIDX     (ushort: 14)
(p) pad14       DMUNS2       (ushort: 2)
    ri14        DMRTEIDX     (ushort: 14)
(q) pad15       DMUNS2       (ushort: 2)
    ri15        DMRTEIDX     (ushort: 14)
```

User, Compacted and Stored Tuple Layout RTLIST

```
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |   |                           |                       |       |
 0 | a |          prim_ri          |        pad_r2         | count |
   |---------------+---------------+---------------+---------------|
   |   |                           |   |                           |
 4 | b |            ri0            | c |            ri1            |
   |---------------+---------------+---------------+---------------|
   |   |                           |   |                           |
 8 | d |            ri2            | e |            ri3            |
   |---------------+---------------+---------------+---------------|
   |   |                           |   |                           |
12 | f |            ri4            | g |            ri5            |
   |---------------+---------------+---------------+---------------|
   |   |                           |   |                           |
16 | h |            ri6            | i |            ri7            |
   |---------------+---------------+---------------+---------------|
   |   |                           |   |                           |
20 | j |            ri8            | k |            ri9            |
   |---------------+---------------+---------------+---------------|
   |   |                           |   |                           |
24 | l |            ri10           | m |            ri11           |
   |---------------+---------------+---------------+---------------|
   |   |                           |   |                           |
28 | n |            ri12           | o |            ri13           |
   |---------------+---------------+---------------+---------------|
   |   |                           |   |                           |
32 | p |            ri14           | q |            ri15           |
```

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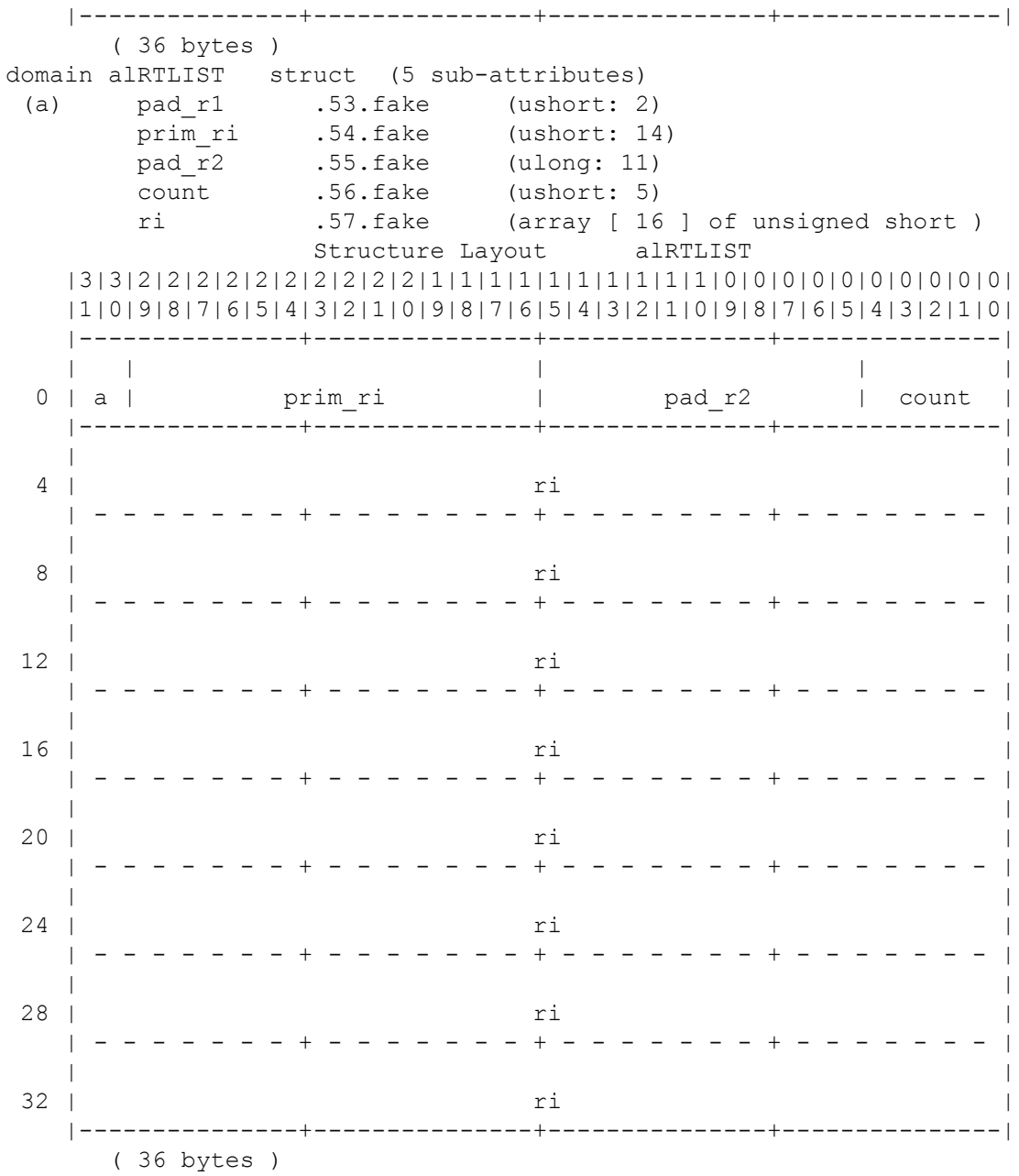


## 4. Population rules for RLrtlist

### Relation Description

Route List for LDP Routing Enhancements Feature
This relation defines the route list for LDP routing.
SFID289 must be unlocked on RC View 8.22, before
an LDP route list can be defined on RC View 10.40.
The number of RIs specified on the RC View determine the
count (1 to 16), and the number of RIs in the route list.
When additional RIs are inserted, or deleted, from the list,
the count is incremented, or decremented, to reflect the
correct number of RIs assigned in the list.
The key (prim_ri) is also the first RI (ri[0])

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```
        assigned in the list:
                RLrtlist.ri[0] == RLrtlist.prim_ri;
```

**Attribute:**
        prim_ri
**Fullname:**
        primary route index
**Attribute Description:**
        primary route index number

**Attribute:**
        count
**Fullname:**
        RI count
**Attribute Description:**
        The number of non-zero RIs assigned in the list.

**Attribute:**
        ri[*]
**Fullname:**
        route list
**Attribute Description:**
        Up to 16 unique RIs can be specified in the route list.

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# RTPPSCRN

## 1. Description

Precedence and preemption screening relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 6000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| application | GCRTG |
| relation type | DBSTATIC |
| head table size | 1024 |
| data page size | 512 |
| page level | 0 |
| linear | DBNO |
| foldtype | DBGC31 |

## 3. Field Layout

```
RTPPSCRN    relid = 658   DBSTATIC   DBACC_HASH  DBPRAM    LPFR    GCRTG
     si          DMSCRNIDX    (ushort: 12)  <--- key
 (a) prec_level  DMPP_PREC    (enum: 3)  <--- key
 (b) code_control  DMBOOL       (enum: 1)
     di          DMDESTIDX    (ushort: 12)  <--- key
 (c) rte_code    DMPP_RTE     (enum: 4)  <--- key
     ri          DMRTEIDX     (ushort: 12)
     rtype       DMROUTE      (enum: 4)
     charge_x    DMCHGIDX     (ushort: 11)
     digits      DMLOCDIG     (array [ 4 ] of char )
         User, Compacted and Stored Tuple Layout   RTPPSCRN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                         |     | |                       |       |
  0 |           si            |  a  |b|           di          |   c   |
    |---------------+---------------+---------------+---------------|
    |                         |       |                       |       |
  4 |           ri            | rtype |       charge_x        |*********|
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  8 |                              digits                             |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLrtppscrn

**Relation Description**
Precedence and preemption screening relation.

The following rules are for documentation only and are not enforceable by recent change (RC). They should be included in the TG5 to document how to minimize the number of tuples in rtppscrn.

(1) When the PP feature is assigned to a line or trunk, the following two tuples should exist in RTPPSCRN for the SI and DI assigned with the RTE_CODE equal to 0. A tuple should exist with the PREC_LEVEL equal to

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P for precedence calls and a tuple should exist with the PREC_LEVEL equal to R for routine calls.

(2) Data should be explicitly populated for a RTE_CODE at a desired PREC_LEVEL when:

(a) The desired route differs from the route chosen for RTE_CODE 0 PREC_LEVEL P for precedence calls or RTE_CODE PREC_LEVEL R for routine calls. Precedence calls for any RTE_CODE at any PREC_LEVEL use the data associated with RTE_CODE 0 PREC_LEVEL P if data for that RTE_CODE and PREC_LEVEL is not explicitly populated. Routine calls for any RTE_CODE use the data associated with RTE_CODE 0 PREC_LEVEL R when data for that RTE_CODE is not explicitly populated.

(b) A tuple already exist for that RTE_CODE but at a lower PREC_LEVEL above ROUTINE than the desired PREC_LEVEL and the desired route differs from the route chosen by the existing tuple. In other words, precedence calls at precedence levels higher than ROUTINE can use data associated with a lower PREC_LEVEL but higher than ROUTINE if data for the desired PREC_LEVEL is not explicitly populated.

(1) Example: This example will illustrate the previous rules. The following layout contains existing tuples. The RTI indicates the chosen route. For this example the SI and DI are the same for all tuples. (A tuple should exist in RTPPSCRN for all combinations of SI and DI)

| RTE_CODE | PREC_LEVEL | RTI |
|---|---|---|
| 0 | R | A |
| 0 | P | B |
| 0 | F | C |
| 2 | I | D |

The following layout contains additional tuples. The needed column indicates whether or not the tuple should be added to RTPPSCRN.

| | RTE_CODE | PREC_LEVEL | RTI | NEEDED |
|---|---|---|---|---|
| 1. | 1 | F | B | NO |
| 2. | 1 | I | D | YES |
| 3. | 3 | R | E | YES |
| 4. | 2 | F | D | NO |

Tuple (1) doesn't need to be populated because the RTI does not differ from the RTI for RTE_CODE 0 PREC_LEVEL P.

Tuple (2) needs to be populated because the RTI differs from the RTI for RTE_CODE 0 PREC_LEVEL P and because a tuple does not exist at a lower PREC_LEVEL but higher than ROUTINE for RTE_CODE 1 with the same RTI.

Tuple (3) needs to be populated because the RTI differs from the RTI for RTE_CODE 0 PREC_LEVEL R.

Tuple (4) doesn't need to be populated because a tuple exists at a lower PREC_LEVEL but higher than ROUTINE for RTE_CODE 2 with the same RTI."

**Attribute: si**

**Fullname:** screening index

**Attribute Description** Screening index associated with a line.

**Attribute: di**

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**Fullname:** destination index

**Attribute Description** Dependencies: none.

**Attribute: rte_code**

**Fullname:** dialed route code

**Attribute Description** Indicates the valid route codes that can be analyzed.

**Attribute: prec_level**

**Fullname:** precedence level

**Attribute Description** Indicates the precedence level of the call in progress. Dependencies: If rtype == RTE_MC, RTE_HUNT or RTE_POLYGRID then prec_level != PP_EXECUTIVE.

**Attribute: ri**

**Fullname:** route index

**Attribute Description** Indicates route index used to route calls to the appropriate trunks.

**Attribute: rtype**

**Fullname:** route type

**Attribute Description** Dependencies:

(1) If rtype = RTE_ATDN, then ri cannot be 0 and must be a valid noc. Also digits must not be null.

(2) If rtype = RTE_MC, then digits should be null, ri should be non-zero, and prec_level != PP_EXECUTIVE. Also verify a tuple exists in RLrt_mcrt with the key mc_ri == ri.

(3) If rtype = RTE_HUNT, then verify the existence of a tuple in RLrt_routing with key route_x = ri, and ri > 0. Also digits should be null and prec_level != PP_EXECUTIVE.

(4) If rtype = RTE_REORDER, then ri should be set to 0, and digits should be null.

(5) If rtype = RTE_DNTRAN, then ri should be zero. Also digits should be null.

(6) If rtype = RTE_PRIME, then ri should be zero and digits should be null.

(7) If rtype = RTE_POLYGRID, then verify the existence of a tuple in RLrt_poly with key pattern = ri, and ri > 0. Digits should be null and prec_level != PP_EXECUTIVE.

**Attribute: digits**

**Fullname:** line number associated with a given attendant noc

**Attribute Description** These are the 4 line number digits associated with an attendant noc. This digits array attribute is only valid when rtype == RTE_ATDN. All other cases are don't care. Range of each digit: 0 .. 9.

**Attribute: charge_x**

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**Fullname:** charge index

**Attribute Description**

(1) NOTE: The charge index contained in rtppscrn is not overwritten by the charge index from RLrt_mcrt. The charge index should be fully populated here if the office uses the PP feature.

**Attribute: code_control**

**Fullname:** code control flag

**Attribute Description** Indicates whether DSN code controls can or cannot be applied to the route indicated by this tuple.

```
Dependencies:
If the global parameter Gldsnopt == DBNO
   the code_control must = DBNO.
If code controls can be applied, then
   code_control must = DBYES.
```

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# RTS_HCN

## 1. Description

This relation contains the translation table from RSM NCT TS to HIM DFI channel circuit name.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 460 |
| expected tuples in relation | 174 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | PCrts_hcntrg |
| insert trigger | DBYES |
| update trigger | DBNO |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| density | 65 |

## 3. Field Layout

```
RTS_HCN     relid = 430   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     nctts       DMSHORT      (short)     <--- key
     himcktname  DMCIRCUIT    (ushort)
         User, Compacted and Stored Tuple Layout    RTS_HCN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             nctts             |           himcktname          |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population rules for RLrts_hcn

### Relation Description

```
translation table from RSM NCT time slot number to
HIM DFI channel circuit name
POPULATION PROCEDURES WHEN ADDING A T1 UMBILICAL
These rules are to be used to populate the RTS_HCN and
HCN_RTS relations when a new T1 umbilical is added
between an RSM and its host SM (HSM).  The starting
point for populating RTS_HCN is the FIDB number of the
RDFI or RDFI2 T1FAC to which the T1 line is connected.
(1) Assume that the RDFI/RDFI2 is added first.  Once it
is installed, the FIDB_SGN relation should be populated:
this gives the mapping from an RSM FIDB to the (PICB+1)
number of the associated RDFI/RDFI2 channel circuit
(service group, service group is the DFI channel number
(1-10) on the DLTU). The domain of FIDB is (0x00 - 0x09)
and (0x10 - 0x19).

(2) The next step is to connect the RDFI/RDFI2 to the
HDFI/HDFI2 via the T1 line.  Once the T1 line is wired
to the HDFI/HDFI2, the RCB_HCB relation should be
```

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populated. This relation gives the mapping from the RDFI/RDFI2 channel circuit to the HDFI/HDFI2 channel circuit name.

(3) Once the HFAC circuit name is known the TSP2APP relation is read and the PCH_UMB circuit (RSM umbilical circuit) is determined. The subtending PCHUMB_TS circuits are determined and populated in the RTS_HCN relation as the (himcktname).

The 22(23) entries in RTS_HCN will be populated as follows: The 'himcktname' attribute is will have a circuit index constructed by using the Umbilical number plus one (umbil + 1) in the upper byte, and the channel circuit number in the lower byte. The channel circuit numbers are taken from the range of (0-22, resulting in 23 tuple entries) if the umbilical does not carry a Control Time Slot (CTS), and (1-22, resulting in 22 tuple entries) if the umbilical uses a channel as a CTS. The constructed circuit index value should be the circuit index for the circuit name attribute 'himcktname'.
The RTS_HCN and HCN_RTS relations are not populated for Control Time Slots. A Control Time Slot is always connected to RSM NCT time slots 0, 1, 2, or 3.

The following diagram give the RSM NCT time slot (nctts) values for each of the 20 possible FIDB values. The first diagram corresponds to FIDB values 0-9 and the second diagram to FIDB values 10-19.

FIDB VALUES 0 - 9

| hdfich | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| | nctts values for each FIDB | | | | | | | | | |
| 0 | - | - | 4 | 20 | 6 | 8 | 10 | 26 | 12 | 14 |
| 1 | 16 | 18 | 34 | 36 | 22 | 24 | 40 | 42 | 28 | 30 |
| 2 | 32 | 48 | 50 | 52 | 38 | 54 | 56 | 58 | 44 | 62 |
| 3 | 64 | 66 | 68 | 84 | 70 | 72 | 74 | 90 | 76 | 78 |
| 4 | 80 | 82 | 98 | 100 | 86 | 88 | 104 | 106 | 92 | 94 |
| 5 | 96 | 112 | 114 | 116 | 102 | 118 | 120 | 122 | 108 | 126 |
| 6 | 128 | 130 | 132 | 148 | 134 | 136 | 138 | 154 | 140 | 142 |
| 7 | 144 | 146 | 162 | 164 | 150 | 152 | 168 | 170 | 156 | 158 |
| 8 | 160 | 176 | 178 | 180 | 166 | 182 | 184 | 186 | 172 | 190 |
| 9 | 192 | 194 | 196 | 212 | 198 | 200 | 202 | 218 | 204 | 206 |
| 10 | 208 | 210 | 226 | 228 | 214 | 216 | 232 | 234 | 220 | 222 |
| 11 | 224 | 240 | 242 | 244 | 230 | 246 | 248 | 250 | 236 | 254 |
| 12 | 256 | 258 | 260 | 276 | 262 | 264 | 266 | 282 | 268 | 270 |
| 13 | 272 | 274 | 290 | 292 | 278 | 280 | 296 | 298 | 284 | 286 |
| 14 | 288 | 304 | 306 | 308 | 294 | 310 | 312 | 314 | 300 | 318 |
| 15 | 320 | 322 | 324 | 340 | 326 | 328 | 330 | 346 | 332 | 334 |
| 16 | 336 | 338 | 354 | 356 | 342 | 344 | 360 | 362 | 348 | 350 |
| 17 | 352 | 368 | 370 | 372 | 358 | 374 | 376 | 378 | 364 | 382 |
| 18 | 384 | 386 | 388 | 404 | 390 | 392 | 394 | 410 | 396 | 398 |
| 19 | 400 | 402 | 418 | 420 | 406 | 408 | 424 | 426 | 412 | 414 |
| 20 | 416 | 432 | 434 | 436 | 422 | 438 | 440 | 442 | 428 | 446 |
| 21 | 448 | 450 | 452 | 468 | 454 | 456 | 458 | 474 | 460 | 462 |
| 22 | 464 | 466 | 482 | 484 | 470 | 472 | 488 | 490 | 476 | 478 |

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FIDB VALUES 10 - 19

| hdfich | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|---|
| | nctts values for each FIDB | | | | | | | | | |
| 0 | - | - | 5 | 21 | 7 | 9 | 11 | 27 | 13 | 15 |
| 1 | 17 | 19 | 35 | 37 | 23 | 25 | 41 | 43 | 29 | 31 |
| 2 | 33 | 49 | 51 | 53 | 39 | 55 | 57 | 59 | 45 | 63 |
| 3 | 65 | 67 | 69 | 85 | 71 | 73 | 75 | 91 | 77 | 79 |
| 4 | 81 | 83 | 99 | 101 | 87 | 89 | 105 | 107 | 93 | 95 |
| 5 | 97 | 113 | 115 | 117 | 103 | 119 | 121 | 123 | 109 | 127 |
| 6 | 129 | 131 | 133 | 149 | 135 | 137 | 139 | 155 | 141 | 143 |
| 7 | 145 | 147 | 163 | 165 | 151 | 153 | 169 | 171 | 157 | 159 |
| 8 | 161 | 177 | 179 | 181 | 167 | 183 | 185 | 187 | 173 | 191 |
| 9 | 193 | 195 | 197 | 213 | 199 | 201 | 203 | 219 | 205 | 207 |
| 10 | 209 | 211 | 227 | 229 | 215 | 217 | 233 | 235 | 221 | 223 |
| 11 | 225 | 241 | 243 | 245 | 231 | 247 | 249 | 251 | 237 | 255 |
| 12 | 257 | 259 | 261 | 277 | 263 | 265 | 267 | 283 | 269 | 271 |
| 13 | 273 | 275 | 291 | 293 | 279 | 281 | 297 | 299 | 285 | 287 |
| 14 | 289 | 305 | 307 | 309 | 295 | 311 | 313 | 315 | 301 | 319 |
| 15 | 321 | 323 | 325 | 341 | 327 | 329 | 331 | 347 | 333 | 335 |
| 16 | 337 | 339 | 355 | 357 | 343 | 345 | 361 | 363 | 349 | 351 |
| 17 | 353 | 369 | 371 | 373 | 359 | 375 | 377 | 379 | 365 | 383 |
| 18 | 385 | 387 | 389 | 405 | 391 | 393 | 395 | 411 | 397 | 399 |
| 19 | 401 | 403 | 419 | 421 | 407 | 409 | 425 | 427 | 413 | 415 |
| 20 | 417 | 433 | 435 | 437 | 423 | 439 | 441 | 443 | 429 | 447 |
| 21 | 449 | 451 | 453 | 469 | 455 | 457 | 459 | 475 | 461 | 463 |
| 22 | 465 | 467 | 483 | 485 | 471 | 473 | 489 | 491 | 477 | 479 |

Note that the ODD listings for RTS_HCN and HCN_RTS are given in decimal.

**Attribute:**
nctts
**Fullname:**
RSM NCT time slot number
**Attribute Description:**
The nctts attribute corresponds to an NCT time slot in the RSM which is associated with a T1 transmission line.

**Attribute:**
himcktname
**Fullname:**
HIM DFI channel circuit name
**Attribute Description:**
The himcktname attribute indicates the associated umbilical channel circuit name. The circuit name will be the circuit that has a circuit index derived from umbilical number plus one (umbil + 1) in the upper byte and the channel number in the lower byte.

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**Defines:**

```
"db/DMcircuit.h"
```

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# RTS_RTS

## 1. Description

Relation containing far end network side time slot numbers corresponding to local network side time slots connected by a given ICL channel (time slot).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 412 |
| expected tuples in relation | 118 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 23 |
| ks key store option | AUTO |
| trigger function | PCrts_rtstrg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
RTS_RTS     relid = 580   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     ts_near     DMUNS10      (ushort: 10)  <--- key, not stored
     ts_far      DMUNS10      (ushort: 10)
     othrrm      DMMODULE     (ushort: 8)
         User and Compacted Tuple Layout    RTS_RTS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  0 |      ts_near      |*******************************************|
    |---------------+---------------+---------------+---------------|
    |                   |           |               |               |
  4 |       ts_far      |***********|     othrrm    |***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     ts_far      DMUNS10      (ushort: 10)
     othrrm      DMMODULE     (ushort: 8)
           Stored Tuple Layout      RTS_RTS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |           |               |               |
  0 |       ts_far      |***********|     othrrm    |***************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLrts_rts

**Relation Description**
Local end to far end time slots.

Relation containing far end network side time slot numbers corresponding to local network side time slots

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connected by a given ICL channel (time slot).

Intra-RSM communication links (ICLs) will initially be T1 spans. These facilities carry 23 active channels (the 24th being used for multiplexed signaling information.) When an ICL is attached to an RM, an association is made between the ICL channel number (0-23) and a TSI network side time slot number (0-511). There are 20 of these possible associations, depending upon the FIDB which is associated with the termination.

An association between ICL channel and network side time slot can also be made at the other end of the ICL. However, the two time slots associated with a given channel may be different because the FIDBs used at each end may be different. (In fact, it can be proven that they can NEVER all be the same in a fully assigned cluster.)

This relation specifies the correspondence between local end (ts_near) and far end (ts_far) time slots which terminate a given ICL channel. The attribute 'othrrm' specifies the ID of the mate RM which terminates the ICL channel specified by 'ts_near'. For example, if ts_near=18 in module 2 terminates in ts_far=23 of module 4, then the tuple in module 2 will have: ts_near=18;othrrm=4;ts_far=23. The corresponding tuple in module 4 will have:ts_near=23;othrrm=2;ts_far=18.

Note: that growth/degrowth of an ICL implies changes in pairs to 23 tuples (22 if either CDFI of the ICL connects to PIDBs 01 or 11) in each of the terminating modules. For each ts[i]-->ts[j] in one module there will be a corresponding ts[j]-->ts[i] in the other module.

**Attribute: ts_near**

**Fullname:** near end time slot

**Attribute Description** A local network side time slot which terminates an ICL.

**Attribute: othrrm**

**Fullname:** other RM

**Attribute Description** The module ID of the mate RM to which 'ts_near' connects.

**Attribute: ts_far**

**Fullname:** far end time slot

**Attribute Description** The corresponding network side time slot on the other end of the ICL.

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# RTSATLN

## 1. Description

Stand alone test line relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
RTSATLN     relid = 591   DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL
     port        DMGPORT      (struct)  <--- key
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     screen_x    DMSCRNIDX    (ushort: 12)
 (a) am_emrnm    DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout    RTSATLN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============  port ============+===============|
    |                                |                |               |
  0 |              member            |***************|     module    |
    |===============+===============+===============+===============|
    |                        | |                                     |
  4 |         screen_x       |a|*************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLrtsatln

**Relation Description**
Stand Alone Test Line.

A tuple exists in this relation for each port in RLfc_porttyp with a servclass of FC_SATSTLN.

**Attribute: port**

**Fullname:** Global port id

**Attribute Description** This attribute is the key for this relation and is divided into sub-attributes; port.member and port.module. Member is the port name of a line or trunk. Module is the Switch Module on which this port is located.

**Attribute: port.member**

**Fullname:** Port Member

**Attribute Description** Member is the port name of a line or trunk.

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**Attribute: port.module**

**Fullname:** Port Module

**Attribute Description** Module is the Switch Module on which this port is located.

**Attribute: screen_x**

**Fullname:** Screening index

**Attribute Description** Indicates the screening index to be substituted for 0 when doing standalone routing tests. It is obtained by using the lcc and rax attributes from the port's RLrc_oeinfo tuple as keys to an appropriate RLrc_lcc tuple.

**Attribute: am_emrnm**

**Fullname:** AM Emergency Number Routing

**Attribute Description** Indicates if the port is to be used for testing standalone emergency routing for the AM or for the SM on which the port is located. This attribute can have the following values:

```
DBYES - AM emergency routing
DBNO  - SM emergency routing
```

The default value is DBNO.

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# RXSCHD

## 1. Description

Routine exercise schedule.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 768 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | DGN |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |

## 3. Field Layout

```
RXSCHD      relid = 270   DBSTATIC   DBACC_CIND  DBPRAM    LP      DGN
     procno      DMMODULE     (ushort: 8)  <--- key
     rxhtod      DMUNS8       (ushort: 8)
     rxmtod      DMUNS8       (ushort: 8)
     rxdur       DMUNS8       (ushort: 8)
 (a) rxtsttyp    DMSCHDKY     (enum: 2)  <--- key
 (b) rxsun       DMSCHDTY     (enum: 2)
 (c) rxmon       DMSCHDTY     (enum: 2)
 (d) rxtue       DMSCHDTY     (enum: 2)
 (e) rxwed       DMSCHDTY     (enum: 2)
 (f) rxthr       DMSCHDTY     (enum: 2)
 (g) rxfri       DMSCHDTY     (enum: 2)
 (h) rxsat       DMSCHDTY     (enum: 2)
 (i) rxvrbose    DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout RXSCHD
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  0 |     procno    |     rxhtod    |     rxmtod    |     rxdur     |
    |---------------+---------------+---------------+---------------|
    |   |   |   |   |   |   |   |   | |                             |
  4 | a | b | c | d | e | f | g | h |i|*****************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLrxschd

**Relation Description**
Routine exercise schedule.

This data relation contains the Routine Exercise (REX) schedule information. In particular it contains the REX starting time in hours, minutes, and the duration of the tests. There is one tuple in RLrxschd for each SM processor number.

ODA CHECKS BOTH: 1) That each RLrxschd must have a corresponding RLmodatt tuple; 2) Every RLmodatt tuple

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for each operational SM must have a corresponding RLrxschd tuple.

RC DOES NOT CHECK that ALL RLrxschd tuples have a corresponding tuple in RLmodatt. RC checks whether the SM is operational and has a corresponding RLrxschd tuple (that is, same as 2 in ODA check described previously).

The processor number (rxschd.procno) for the CM is represented by the number '0' in RLrxschd. If there is no CM equipped in the office, the processor number should not be '0'.

**Attribute: procno**

**Fullname:** REX module number

**Attribute Description** This attribute will contain the module number for the REX schedulers.
*** ODA ONLY CHECK ***
***(NOT SUPPORTED BY RC)***
Verify each RLrxschd have an associated RLmodatt tuple.

***ODA AND RC CHECK ***
Verify each operational SM have an associated RLrxschd tuple.

**Attribute: rxtsttyp**

**Fullname:** route exercise test type

**Attribute Description** This attribute is also a key for this relation. It will contain one of three test type that REX can schedule.
DGNTST is for a full diagnostic test or a conditional restoral on all uni
ts.
ELSTST is for the Electronic Loop Segregation test which tests customer l
ines.
FABTST is for the Fabric Exercise which test crosspoints in the Line Unit
.

**Attribute: rxhtod**

**Fullname:** test start time of day in hours

**Attribute Description** The starting time hour is entered here with a range of 0 - 23

**Attribute: rxmtod**

**Fullname:** test start time of day in minutes

**Attribute Description** The starting time minute is entered here with a range of 0 - 59

**Attribute: rxdur**

**Fullname:** duration of test

**Attribute Description** The duration of the test in hours is entered here. The duration can range from 1 - 24 hours.

**Attribute: rxvrbose**

**Fullname:** controller for REX output messages

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**Attribute Description** Field to allow you to set the VERBOSE option. This field will be used in printing each unit completion message.
DBYES means that each unit completion messages will be printed. DBNO mean that each unit completion message will not be printed.

**Attribute: rxsun**

**Fullname:** routine test schedule type for Sunday

**Attribute Description** Flag use to decide if the three test types should be ran for Sunday. REXNTST is for not tests of REX. REXPTST is for partial (switch) test of REX and REXFTST is for full test of REX.

**Attribute: rxmon**

**Fullname:** routine test schedule type for Monday

**Attribute Description** Flag use to decide if the three test types should be ran for Monday. REXNTST is for not tests of REX. REXPTST is for partial (switch) test of REX and REXFTST is for full test of REX.

**Attribute: rxtue**

**Fullname:** routine test schedule type for Tuesday

**Attribute Description** Flag use to decide if the three test types should be ran for Tuesday. REXNTST is for not tests of REX. REXPTST is for partial (switch) test of REX and REXFTST is for full test of REX.

**Attribute: rxwed**

**Fullname:** routine test schedule type for Wednesday

**Attribute Description** Flag use to decide if the three test types should be ran for Wednesday. REXNTST is for not tests of REX. REXPTST is for partial (switch) test of REX and REXFTST is for full test of REX.

**Attribute: rxthr**

**Fullname:** routine test schedule type for Thursday

**Attribute Description** Flag use to decide if the three test types should be ran for Thursday. REXNTST is for not tests of REX. REXPTST is for partial (switch) test of REX and REXFTST is for full test of REX.

**Attribute: rxfri**

**Fullname:** routine test schedule type for Friday

**Attribute Description** Flag use to decide if the three test types should be ran for Friday. REXNTST is for not tests of REX. REXPTST is for partial (switch) test of REX and REXFTST is for full test of REX.

**Attribute: rxsat**

**Fullname:** routine test schedule type for Saturday

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**Attribute Description** Flag use to decide if the three test types should be ran for Saturday. REXNTST is for not tests of REX. REXPTST is for partial (switch) test of REX and REXFTST is for full test of REX.

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## 2.19 RELATIONS: S

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# S96ABSIG

## 1. Description

This relation contains the signaling bit patterns sent from the *5ESS*®-2000 switch to integrated *SLC*® 96 remote terminal channel units.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 512 |
| data page size | 512 |
| page level | 1 |

## 3. Field Layout

```
S96ABSIG    relid = 286   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     idle         DMUNS8       (ushort: 8)
     chtst        DMUNS8       (ushort: 8)
     fwdis        DMUNS8       (ushort: 8)
     mrrng        DMUNS8       (ushort: 8)
     prrng        DMUNS8       (ushort: 8)
     mtrng        DMUNS8       (ushort: 8)
     ptrng        DMUNS8       (ushort: 8)
     neglm        DMUNS8       (ushort: 8)
     poslm        DMUNS8       (ushort: 8)
     gndst        DMUNS8       (ushort: 8)
     ani          DMUNS8       (ushort: 8)
     pcchk        DMUNS8       (ushort: 8)
     mcchk        DMUNS8       (ushort: 8)
     ccoll        DMUNS8       (ushort: 8)
     cret         DMUNS8       (ushort: 8)
     ranig        DMUNS8       (ushort: 8)
     ranir        DMUNS8       (ushort: 8)
     rgrnd        DMUNS8       (ushort: 8)
     rordr        DMUNS8       (ushort: 8)
     ridle        DMUNS8       (ushort: 8)
     ofhk         DMUNS8       (ushort: 8)
     cgrnd        DMUNS8       (ushort: 8)
     fsr5         DMUNS8       (ushort: 8)
     chanutyp     DMCHANUTYP   (enum: 5)     <--- key
         User, Compacted and Stored Tuple Layout   S96ABSIG
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  0 |      idle     |     chtst     |     fwdis     |     mrrng     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |     prrng     |     mtrng     |     ptrng     |     neglm     |
    |---------------+---------------+---------------+---------------|
```

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| | | | | |
|---|---|---|---|---|
| 8 | poslm | gndst | ani | pcchk |
| 12 | mcchk | ccoll | cret | ranig |
| 16 | ranir | rgrnd | rordr | ridle |
| 20 | ofhk | cgrnd | fsr5 | chanutyp\|***** |

( 24 bytes )

## 4. Population Rules for RLs96absig

**Relation Description**
SLC 96/SLC 5 Channel Unit Signaling.

This relation defines the A/B signaling bit patterns for each type of RT Channel Unit.

QUANTITY OF TUPLES:

15 tuples

The following rules show how the values contained in the RLs96absig relation are converted by the DFI (on the DCLU) units into T1 A,B bit patterns.
DCLU and IDCU TR8 CONVERSION RULE :

$T_{A = 0}$

if A=0 and C=0 $T_{A = 1}$

if (A=1 and C=0) or (A=1 and C=1) $T_{A = 1/0}$

if A=0 and C=1 $T_{B = 0}$

if B=0 and D=0 $T_{B = 1}$

if (B=1 and D=0) or (B=1 and D=1) $T_{B = 1/0}$

if B=0 and D=1

ABCD signaling is used for TR303 RTs on IDCU. Signals are sent as shown in the table.

The following values give the hard-coded constants used for the appropriate chanutyps for the DCLU (that is, a common set of values has been chosen that will work with DCLU according to the conversion rules stated previously)

255 is considered to be an invalid value. However, the switch software uses the lower 4 bits of the value in the table whether the value is invalid or not, if the state of the call and other parameters associated with the port, indicate that a signal should be sent/is to be received from the channel unit.

| chanutyp | idle | chtst | fwdis | mrrng | prrng | mtrng | ptrng |
|---|---|---|---|---|---|---|---|
| PC1PARTY | 15 | 10 | 05 | 13 | 255 | 255 | 255 |
| PCMLTYPARTY | 15 | 10 | 255 | 13 | 12 | 14 | 04 |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PCCOIN | 00 | 10 | 255 | 13 | 255 | 255 | 255 |
| PCSPOTS | 08 | 10 | 05 | 13 | 255 | 255 | 255 |
| PCFXS | 10 | 255 | 15 | 00 | 255 | 255 | 255 |
| PCFXSL | 10 | 255 | 255 | 00 | 255 | 255 | 255 |
| PCDFXS | 10 | 255 | 15 | 00 | 255 | 255 | 255 |
| PCFSR | 15 | 10 | 255 | 13 | 12 | 14 | 04 |
| PCDID | 00 | 255 | 255 | 15 | 255 | 255 | 255 |
| PCDIDDPT | 00 | 255 | 255 | 15 | 255 | 255 | 255 |
| PCFXO | 10 | 255 | 255 | 15 | 255 | 255 | 255 |
| PCCFESPOTS | 10 | 05 | 15 | 00 | 255 | 255 | 255 |
| PCSSV00 | 00 | 255 | 255 | 255 | 255 | 255 | 255 |
| PCSSV10 | 05 | 255 | 255 | 255 | 255 | 255 | 255 |
| PCTR303 | 10 | 255 | 15 | 00 | 05 | 07 | 03 |

| chanutyp | neglm | poslm | gndst | ani | pcchk | mcchk | ccoll |
|---|---|---|---|---|---|---|---|
| PC1PARTY | 255 | 255 | 255 | 255 | 255 | 255 | 255 |
| PCMLTYPARTY | 255 | 255 | 255 | 05 | 255 | 255 | 255 |
| PCCOIN | 00 | 05 | 15 | 255 | 08 | 12 | 04 |
| PCSPOTS | 255 | 12 | 00 | 255 | 255 | 255 | 255 |
| PCFXS | 255 | 255 | 15 | 255 | 255 | 255 | 255 |
| PCFXSL | 255 | 255 | 255 | 255 | 255 | 255 | 255 |
| PCDFXS | 255 | 255 | 15 | 255 | 255 | 255 | 255 |
| PCFSR | 08 | 255 | 255 | 255 | 255 | 255 | 255 |
| PCDID | 255 | 255 | 255 | 255 | 255 | 255 | 255 |
| PCDIDDPT | 255 | 255 | 255 | 255 | 255 | 255 | 255 |
| PCFXO | 255 | 255 | 00 | 255 | 255 | 255 | 255 |
| PCCFESPOTS | 255 | 255 | 15 | 255 | 255 | 255 | 255 |
| PCSSV00 | 255 | 255 | 255 | 255 | 255 | 255 | 255 |
| PCSSV10 | 255 | 255 | 255 | 255 | 255 | 255 | 255 |
| PCTR303 | 10 | 02 | 15 | 13 | 05 | 13 | 03 |

| chanutyp | cret | ranig | ranir | rgrnd | rordr | ridle | ofhk |
|---|---|---|---|---|---|---|---|
| PC1PARTY | 255 | 255 | 255 | 255 | 03 | 00 | 01 |
| PCMLTYPARTY | 255 | 02 | 03 | 255 | 03 | 00 | 01 |
| PCCOIN | 14 | 255 | 255 | 02 | 255 | 00 | 01 |
| PCSPOTS | 255 | 255 | 255 | 02 | 03 | 00 | 01 |
| PCFXS | 255 | 255 | 255 | 00 | 255 | 02 | 03 |
| PCFXSL | 255 | 255 | 255 | 255 | 255 | 02 | 03 |
| PCDFXS | 255 | 255 | 255 | 00 | 255 | 02 | 03 |
| PCFSR | 255 | 255 | 255 | 255 | 03 | 00 | 01 |
| PCDID | 255 | 255 | 255 | 255 | 255 | 00 | 15 |
| PCDIDDPT | 255 | 255 | 255 | 255 | 255 | 00 | 15 |
| PCFXO | 255 | 255 | 255 | 03 | 255 | 02 | 00 |
| PCCFESPOTS | 255 | 255 | 255 | 00 | 255 | 02 | 03 |
| PCSSV00 | 255 | 255 | 255 | 255 | 255 | 255 | 255 |
| PCSSV10 | 255 | 255 | 255 | 255 | 255 | 255 | 255 |
| PCTR303 | 07 | 07 | 255 | 00 | 255 | 10 | 15 |

| chanutyp | cgrnd | fsr5 |
|---|---|---|
| PC1PARTY | 255 | 255 |
| PCMLTYPARTY | 255 | 255 |
| PCCOIN | 02 | 255 |
| PCSPOTS | 02 | 255 |
| PCFXS | 00 | 255 |
| PCFXSL | 255 | 255 |
| PCDFXS | 00 | 255 |
| PCFSR | 255 | 08 |

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```
PCDID         255      255
PCDIDDPT      255      255
PCFXO         03       255
PCCFESPOTS    00       255
PCSSV00       255      255
PCSSV10       255      255
PCTR303       07       02
```

**Attribute: chanutyp**

**Fullname:** channel unit type

**Attribute Description** The key to this relation is the channel unit type (DMchanutyp) which contains values for DCLU channel unit types. The following diagram gives the entries which represent the channel unit type on the DCLU for switched service and non-switched special services (nailup):

```
PC1PARTY,    PCMLTYPARTY,  PCCOIN,    PCSPOTS,    PCFXS,
PCFXSL,      PCDFXS,       PCFSR,     PCDID,      PCDIDDPT
```

The following channel unit types are only supported for non-switched special services (nailup) through a DCLU. These are generic channel unit types designed to allow any channel unit to be plugged in at the RT until it is nailed up, without new switch software to support them. These channel unit types only provide idle code towards the RT (hence, the last 2 characters of the name represent the AB-bit pattern sent to the channel for idle code). No other signals should be sent towards the channel unit and are populated with the `invalid' value of 255 (such as, the ringing, channel test, ground start and coin signals). However, the switch software does NOT treat the signals populated in the table with 255 as invalid but may send one of these signals in some cases. The value sent is determined from the lower 4 bits of 255 which is decimal 15 or binary 1111. Based on the following conversion rules given, the AB-bit pattern sent to the channel unit is binary 11 which corresponds to either idle, disconnect or invalid for the channel unit at the RT. All the receive signals are populated with the invalid value of 255. This means any channel unit sending a signal to the switch must send an `ridle' code AB-bit pattern of 11. This will mean the switch will treat this port as in-service and idle. If the switch receives anything other than the AB-bit pattern of 11, the switch interprets the signal as off hook. However, since the `ofhk' signal is also populated as AB-bit pattern 11, the switch sees an invalid off hook signal and will place the port out-of-service, high-and-wet. Both cases are acceptable to the nailup software.
PCSSV00, PCSSV10

The following channel unit types are not currently supported for switched service by the switch software (recent change, call processing, terminal maintenance, or ODA) through a DCLU or an IDCU. However, for non-switched special services, these channel units may be physically installed in the RT and specified on the RT growth views using one of the generic nailup channel unit types listed previously.
PCFXO, PCCFESPOTS

The following channel unit type is used to describe the signaling states associated with terminations on TR303 RTs:

PCTR303

**Attribute: idle**

**Fullname:** Idle code - -48R, TG.

**Attribute Description** Reception of this pattern at the RT causes the channel unit to apply normal battery feed to the customer loop. This pattern is used for the loop start of a SPOTS channel unit.

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For the DID channel unit at the RT, this pattern causes the loop closure relay to be in the non-operation state. For the FXS channel unit this pattern signifies dial tone on the channel unit, no ringing.

Signal Direction is from the switch to the RT (DCLU->RT).

The DFI/LIU unit converts this value into T1 A,B bit patterns.

**Attribute: chtst**

**Fullname:** Channel test code.

**Attribute Description** Reception of the pattern at the RT starts the tests to check for the proper operation of the RT channel unit.

Signal Direction is from the switch to the RT (DCLU->RT).

The DFI/LIU unit converts this value into T1 A,B bit patterns.

**Attribute: fwdis**

**Fullname:** Forward disconnect code.

**Attribute Description** Reception of the pattern at the RT causes the channel unit to short the tip and ring together. For the FXS channel unit, this pattern signifies tip open, -48 volts ring.

Signal Direction is from the switch to the RT (DCLU->RT).

The DFI/LIU unit converts this value into T1 A,B bit patterns.

**Attribute: mrrng**

**Fullname:** Negative Ring Ringing.

**Attribute Description** Reception of the pattern at the RT causes the channel unit to apply -R ringing to the loop, negative DC. For DID, the channel unit at the RT operates its loop closure relay to provide a tip and ring termination at the PBX. For FXO, the channel unit at the RT operates its loop closure relay, no ring ground. For FSR, the channel unit at the RT applies 16 2/3 Hz for Harmonic, 20 Hz for Synchromonic ringing to the customers line.

Signal Direction is from the switch to the RT (DCLU->RT).

The DFI/LIU unit converts this value into T1 A,B bit patterns.

**Attribute: prrng**

**Fullname:** Positive Ring Ringing.

**Attribute Description** Reception of the pattern at the RT causes the channel unit to apply +R ringing to the loop, positive DC. For FSR, the channel unit at the RT applies 25 Hz for Harmonic, 30 Hz for Decimonic or 30 Hz for Synchromonic ringing to the customers line.

Signal Direction is from the switch to the RT (DCLU->RT).

The DFI/LIU unit converts this value into T1 A,B bit patterns.

**Attribute: mtrng**

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**Fullname:** Negative Tip Ringing.

**Attribute Description** Reception of the pattern at the RT causes the channel unit to apply -T ringing to the loop, negative DC. For the ESPOSTS channel unit, this pattern means loop closure for loop start and tip ground ringing for ground start. For FSR, the channel unit at the RT applies 33 1/3 Hz for Harmonic, 40 Hz for Decimonic or 42 Hz for Synchromonic ringing to the customers line.

Signal Direction is from the switch to the RT (DCLU->RT).

The DFI/LIU unit converts this value into T1 A,B bit patterns.

**Attribute: ptrng**

**Fullname:** Positive Ring Ringing.

**Attribute Description** Reception of the pattern at the RT causes the channel unit to apply +T ringing to the loop, positive DC. For FSR, the channel unit at the RT applies 50 Hz for Harmonic, 50 Hz for Decimonic or 54 Hz for Synchromonic ringing to the customers line.

Signal Direction is from the switch to the RT (DCLU->RT).

The DFI/LIU unit converts this value into T1 A,B bit patterns.

**Attribute: neglm**

**Fullname:** Negative Loop Mode - -48R TG.

**Attribute Description** Reception of the pattern at the RT causes the channel unit to place negative battery, ring with respect to tip, on the loop.

Signal Direction is from the switch to the RT (DCLU->RT).

The DFI/LIU unit converts this value into T1 A,B bit patterns.

**Attribute: poslm**

**Fullname:** Positive Loop Mode- 48R TG.

**Attribute Description** Reception of the pattern at the RT causes the channel unit to place positive battery, floating feed, on the loop.

Signal Direction is from the switch to the RT (DCLU->RT).

The DFI/LIU unit converts this value into T1 A,B bit patterns.

**Attribute: gndst**

**Fullname:** Ground Start- -48 NTG.

**Attribute Description** Reception of the pattern at the RT causes the channel unit to place negative battery on ring with tip open. For the FXO channel unit this pattern means ring ground with no loop closure for ground start.

Signal Direction is from the switch to the RT (DCLU->RT).

The DFI/LIU unit converts this value into T1 A,B bit patterns.

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**Attribute: ani**

**Fullname:** Tip party test code.

**Attribute Description** Reception of the pattern at the RT causes the channel unit to initiate a tip party ground test.

Signal Direction is from the switch to the RT (DCLU->RT).

The DFI/LIU unit converts this value into T1 A,B bit patterns.

**Attribute: pcchk**

**Fullname:** Positive Coin Check.

**Attribute Description** Reception of the pattern at the RT causes the channel unit to place positive voltage on tip with ring open.

Signal Direction is from the switch to the RT (DCLU->RT).

The DFI/LIU unit converts this value into T1 A,B bit patterns.

**Attribute: mcchk**

**Fullname:** Negative Coin Check.

**Attribute Description** Reception of the pattern at the RT causes the channel unit to place negative voltage on tip and open ring.

Signal Direction is from the switch to the RT (DCLU->RT).

The DFI/LIU unit converts this value into T1 A,B bit patterns.

**Attribute: ccoll**

**Fullname:** Coin collect.

**Attribute Description** Reception of the pattern at the RT causes the channel unit to place positive coin collect voltage to tip with ring open.

Signal Direction is from the switch to the RT (DCLU->RT).

The DFI/LIU unit converts this value into T1 A,B bit patterns.

**Attribute: cret**

**Fullname:** Coin return.

**Attribute Description** Reception of the pattern at the RT causes the channel unit to place negative coin return voltage to tip with ring open.

Signal Direction is from the switch to the RT (DCLU->RT).

The DFI/LIU unit converts this value into T1 A,B bit patterns.

**Attribute: ranig**

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**Fullname:** Receive Tip ground code.

**Attribute Description** Reception of this pattern at the *5ESS* ®-2000 switch from the channel unit at the RT signals that a ground current greater than a preset threshold has been detected.

Signal Direction is from the RT to the switch (DCLU<-RT).

The DFI/LIU unit converts this value into T1 A,B bit patterns.

**Attribute: ranir**

**Fullname:** Receive Tip relay code.

**Attribute Description** The DFI/LIU unit converts this value into T1 A,B bit patterns.

**Attribute: rgrnd**

**Fullname:** Receive ground code.

**Attribute Description** Reception of this pattern at the *5ESS* ®-2000 switch from the channel unit at the RT signifies that the ground current is greater than a certain threshold and one of the following five signaling bit patterns is being sent to the RT; ground start, positive coin check, negative coin check, coin return, or coin collect. For the ESPOTSSCF channel units this pattern means ring ground for ground start.

Signal Direction is from the RT to the switch (DCLU<-RT).

The DFI/LIU unit converts this value into T1 A,B bit patterns.

**Attribute: rordr**

**Fullname:** Receive reorder code.

**Attribute Description** The DFI/LIU unit converts this value into T1 A,B bit patterns.

**Attribute: ridle**

**Fullname:** Receive idle code.

**Attribute Description** Reception of this pattern at the *5ESS* ®-2000 switch from the channel unit at the RT signifies an 'on-hook' condition, when the loop or ground
current is under a preset threshold value. For the FXO channel unit, this pattern means loop start idle, tip ground. For the DID channel unit this pattern means normal battery code transmission towards the *5ESS*®-2000 switch.

Signal Direction is from the RT to the switch (DCLU<-RT).

The DFI/LIU unit converts this value into T1 A,B bit patterns.

**Attribute: ofhk**

**Fullname:** Receive off-hook code.

**Attribute Description** Reception of this pattern at the *5ESS* ®-2000 switch from the channel unit at the RT signals an 'off-hook' condition, when the loop current exceed a preset threshold value. For the FXO channel unit, this pattern means ringing applied to the tip and ring. For the DID channel

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unit this pattern means that the channel unit has detected a reverse battery from the PBX and transmits a reverse battery code to the *5ESS*®-2000 switch.

Signal Direction is from the RT to the switch (DCLU<-RT).

The DFI/LIU unit converts this value into T1 A,B bit patterns.

**Attribute: cgrnd**

**Fullname:** Coin ground signaling

**Attribute Description** The cgrnd attribute is for coin ground (RT to IDCU) signaling. For TR8 RTs, the coin ground is always the same pattern as ring ground. Under TR303, they have different patterns and thus a new attribute is required. The default value for this attribute is 255.

**Attribute: fsr5**

**Fullname:** Frequency Selective Ringing Pattern #5

**Attribute Description** The fsr5 attribute is for Frequence selective ringing (pattern #5) signaling (IDCU to RT) signaling.

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# S96DIODE

## 1. Description

This relation returns the test bus control unit (TBCU) scan and distribute points assigned to the given MTB.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |

## 3. Field Layout

```
S96DIODE    relid = 230   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     mtbckt      DMCIRCUIT    (ushort)     <--- key
     tbcuscan    DMPORT       (ushort)
     d1_rmcut    DMPORT       (ushort)
     d2_sigcut   DMPORT       (ushort)
     d3_chres    DMPORT       (ushort)
     d4_chres    DMPORT       (ushort)
     d5_chres    DMPORT       (ushort)
         User, Compacted and Stored Tuple Layout   S96DIODE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             mtbckt            |            tbcuscan           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            d1_rmcut           |           d2_sigcut           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            d3_chres           |            d4_chres           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |            d5_chres           |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLs96diode

**Relation Description**
Returns the test bus control unit (TBCU) scan and distribute points assigned to the given MTB.

Assigns the scan and distribute points needed to operate the TBCU. The scan and distribute points should be on the same MSU service group as the MTB. This data resides in the IM with the MSU providing the scan and distribute points.

**Attribute: mtbckt**

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**Fullname:** circuit name of metallic test bus.

**Attribute Description** Circuit name of the metallic test bus, see RLcktdata for lay out of the circuit.

**Attribute: tbcuscan**

**Fullname:** TBCU scan point.

**Attribute Description** One scan point for each MTB that serves *SLC*® 96 or *SLC*® 5 RT's.

**Attribute: d1_rmcut**

**Fullname:** First distribute point of TBCU.

**Attribute Description** One for each MTB the serves *SLC*® 96 or *SLC*® 5 RT's.

**Attribute: d2_sigcut**

**Fullname:** Second distribute point of TBCU.

**Attribute Description** One for each MTB the serves *SLC*® 96 or *SLC*® 5 RT's.

**Attribute: d3_chres**

**Fullname:** Third distribute point of TBCU.

**Attribute Description** One for each MTB the serves *SLC*® 96 or *SLC*® 5 RT's.

**Attribute: d4_chres**

**Fullname:** Fourth distribute point of TBCU.

**Attribute Description** One for each MTB the serves *SLC*® 96 or *SLC*® 5 RT's.

**Attribute: d5_chres**

**Fullname:** Fifth distribute point of TBCU.

**Attribute Description** One for each MTB the serves *SLC*® 96 or *SLC*® 5 RT's.

**defines:**
"db/DMcircuit.h"

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# S96EQUIP

## 1. Description

*SLC*® 96 System Hardware Equipage for *SLC*® 96s interfacing with the DCLU.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 300 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 1024 |
| page level | 0 |
| trigger function | SMtgdfsh |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
S96EQUIP    relid = 215   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     s96rtname   DMCIRCUIT    (ushort)     <--- key
     dfia        DMCIRCUIT    (ushort)
     dfib        DMCIRCUIT    (ushort)
     dfic        DMCIRCUIT    (ushort)
     dfid        DMCIRCUIT    (ushort)
     pdfi        DMCIRCUIT    (ushort)
     sid         DMSHORT      (short)
 (a) bank0mode   DMS96MODE    (enum: 2)
 (b) bank1mode   DMS96MODE    (enum: 2)
 (c) pmisc_mj    DMBOOL       (enum: 1)
 (d) mtpproto    DMBOOL       (enum: 1)
     mtbcrkt     DMGCIRCUIT   (struct)
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout   S96EQUIP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |           s96rtname           |              dfia             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              dfib             |              dfic             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |              dfid             |              pdfi             |
    |---------------+---------------+---------------+---------------|
    |                               |   |   | | |                   |
 12 |              sid              | a | b |c|d|*******************|
    |===============+=========== mtbcrkt ===========+===============|
    |                               |                 |               |
 16 |            circuit            |*****************|     module    |
```

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```
|===============+===============+===============+===============|
                          ( 20 bytes )
```

## 4. Population Rules for RLs96equip

**Relation Description**
Subscriber Loop Carrier (SLC 96) Equipage *SLC*® 96 System Hardware Equipage for *SLC*® 96s interfacing with DCLU.

This relation defines the *SLC*® 96 RT (mode, serving SDFI, serving MTB and SID).

**Attribute: s96rtname**

**Fullname:** RT name. This attribute replaces the previous attribute s96nam.

**Attribute Description** The RT name is identical to the A shelf (Mode 1) circuit name in RLcktdata. The RT name is identical to the bank 0 (Mode 2) circuit name in RLcktdata.

**Attribute: bank0mode**

**Fullname:** Bank 0 mode

**Attribute Description**

```
Mode of shelves A and B (PCMODE1 or PCMODE2).
bank0mode = PCMODE1 if SLC 96 bank0 is nonconcentrated.
bank0mode = PCMODE2 if SLC 96 bank0 is concentrated.
(bank 0 must be equipped).
```

**Attribute: bank1mode**

**Fullname:** Bank 1 mode

**Attribute Description**

```
Mode of shelves C and D (PCUNEQ, PCMODE1, or PCMODE2).
bank1mode = PCUNEQ, if unequipped.
bank1mode = PCMODE1, if nonconcentrated.
bank1mode = PCMODE2, if concentrated.
```

**Attribute: dfia**

**Fullname:** Digital Facility Interface A

**Attribute Description** A line SDFI circuit name from RLcktdata. A valide value must be ASSIGNED.

**Attribute: dfib**

**Fullname:** Digital Facility Interface B

**Attribute Description** B line SDFI circuit name from RLcktdata. 0 if UNASSIGNED.

**Attribute: dfic**

**Fullname:** Digital Facility Interface C

**Attribute Description** C line SDFI circuit name from RLcktdata. 0 if UNASSIGNED.

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**Attribute: dfid**

**Fullname:** Digital Facility Interface D

**Attribute Description** D line circuit name from RLcktdata. 0 if UNASSIGNED.

**Attribute: pdfi**

**Fullname:** P Digital Facility Interface

**Attribute Description**
P line circuit name from RLcktdata.
0 if bank1mode = PCMODE2 or UNASSIGNED.

**Attribute: mtbcrkt**

**Fullname:** Metallic test bus (MTB) circuit. This attribute replaces the previous attribute mtbid.

**Attribute Description** MTB assignment is optional -- see subattributes: mtbcrkt.circuit and mtbcrkt.module.

**Attribute: mtbcrkt.circuit**

**Fullname:** MTB circuit name

**Attribute Description** MTB circuit name from RLcktdata.

**Attribute: mtbcrkt.module**

**Fullname:** MTB circuit module

**Attribute Description** IM number containing MSU serving this MTB.

**Attribute: sid**

**Fullname:** *SLC*® 96 RT identification number.

**Attribute Description** One RLs96equip tuple per remote terminal. Each has a distinct (unique) sid (SLC96id). Therefore each RLs96equip tuple should be assigned a unique sid number in the range 1 ~ 9999 (decimal) starting with 1.

**Attribute: pmisc_mj**

**Fullname:** PWR/MISC alarm - major.

**Attribute Description**
If pmisc_mj = DBYES, then PWR/MISC alarm is major.
If pmisc_mj = DBNO, then PWR/MISC alarm is minor.
pmisc_mj is updatable, and it should be set to DBYES if PWR/MISC alarm for this RT is caused by a loss of commercial power. The default value is DBNO (that is, minor). For Universal *SLC*® 96 this attribute should be DBNO.

**Attribute: mtpproto**

**Fullname:** MTP protocol.

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**Attribute Description** If mtpproto = DBYES, then diode protocol is to be executed on the MTP between the RT and the TBCU. If mtpproto = DBNO, then diode protocol is not to be executed on this path.

**defines:**
"db/DMcircuit.h"

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# S96SMTB

## 1. Description

This relation returns global name of *SLC*® 96 DCLU RT or *SLC*® 96/*SLC*® 5 (DCLU-5) RT connected to given MTB.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | ALIT |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
S96SMTB     relid = 277   DBSTATIC   DBACC_HASH  DBPRAM    LP      ALIT
     mtbgckt     DMGCIRCUIT   (struct)     <--- key
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
     index       DMUNS6       (ushort: 6)     <--- key
     s96grt      DMGCIRCUIT   (struct)
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout    S96SMTB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+=========== mtbgckt ===========+===============|
    |                               |               |               |
  0 |             circuit           |***************|     module    |
    |===============+===============+===============+===============|
    |           |                                                   |
  4 |   index   |***************************************************|
    |===============+===========  s96grt ===========+===============|
    |                               |               |               |
  8 |             circuit           |***************|     module    |
    |===============+===============+===============+===============|
       ( 12 bytes )
```

## 4. Population Rules for RLs96smtb

**Relation Description**
MTB to SLC 96 or SLC 5 RT Relationship

This relation returns global name of RTs which are connected to a given MTB.

This relations associated up to 20 RTs with a MTB.

**Attribute: mtbgckt**

**Fullname:** Global circuit name of metallic test bus.

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**Attribute Description** This is the circuit name of the MTB that is serving the specified *SLC*® RT.

**Attribute: mtbgckt.circuit**

**Fullname:** MTB circuit name.

**Attribute Description** MTB circuit name.

**Attribute: mtbgckt.module**

**Fullname:** SM number containing this MTB.

**Attribute Description** Specify the SM number containing this MTB.

**Attribute: index**

**Fullname:** Nth RT on this MTB.

**Attribute Description** This is a number from 1 to 20 (Nth RT on this MTB).

**Attribute: s96grt**

**Fullname:** name of s96rt connected to the given MTB

**Attribute Description** Contains RT name and SM number serving this RT.

**Attribute: s96grt.circuit**

**Fullname:** RT name (from RLs96equip).

**Attribute Description** For RTs on DCLU, the RT name comes from RLs96equip. For RTs other than DCLU, the RT name comes from RLrt_misc.

**Attribute: s96grt.module**

**Fullname:** SM number serving this RT.

**Attribute Description** Specify the SM number serving this RT.

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# SA_RMVTK

## 1. Description

Identifies the incoming trunks in the SM that have to be removed from service and busied back during module stand-alone operation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 24192 |
| expected tuples in relation | 20 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
SA_RMVTK    relid = 381   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     port        DMPORT       (ushort)  <--- key
         User and Compacted Tuple Layout   SA_RMVTK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                                |
  0 |              port              |********************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
     port        DMPORT       (ushort)  <--- key
           Stored Tuple Layout     SA_RMVTK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                                |
  0 |              port              |********************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLsa_rmvtk

**Relation Description**
Incoming trunks in the SM that have to be removed.

Identifies the incoming trunks in the SM that have to be removed from service and busied back during module stand-alone operation.
This relation is only populated for SMs with the stand alone call processing option (Glsacp = DBYES), and is not populated for export.

**Attribute: port**

**Fullname:** The local port name.

**Attribute Description** This attribute is the local port name of a trunk without the Switching Module number.

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# SASFMCRD

## 1. Description

Service announcement system memory flash card. This relation contains information on memory flash card sizes and version numbers. There may be a maximum of 8 memory flash cards per memory board.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution type | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
SASFMCRD    relid = 2112  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     ckt_indx    DMCKTINDX    (ushort)  <--- key
     mcrd0_code  DMCHR9       (array [ 9 ] of char )
     mcrd1_code  DMCHR9       (array [ 9 ] of char )
     mcrd2_code  DMCHR9       (array [ 9 ] of char )
     mcrd3_code  DMCHR9       (array [ 9 ] of char )
     mcrd4_code  DMCHR9       (array [ 9 ] of char )
     mcrd5_code  DMCHR9       (array [ 9 ] of char )
     mcrd6_code  DMCHR9       (array [ 9 ] of char )
     mcrd7_code  DMCHR9       (array [ 9 ] of char )
     mcrd0_size  DMMCRDDEN    (enum)
     mcrd1_size  DMMCRDDEN    (enum)
     mcrd2_size  DMMCRDDEN    (enum)
     mcrd3_size  DMMCRDDEN    (enum)
     mcrd4_size  DMMCRDDEN    (enum)
     mcrd5_size  DMMCRDDEN    (enum)
     mcrd6_size  DMMCRDDEN    (enum)
     mcrd7_size  DMMCRDDEN    (enum)
     unitnum     DMUNITNO     (ushort: 7)  <--- key
 (a) crds_equip  DMUNS4       (ushort: 4)
 (b) brdnum      DMUNS2       (ushort: 2)  <--- key
        User, Compacted and Stored Tuple Layout   SASFMCRD
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            ckt_indx           |           mcrd0_code          |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
 4 |                         mcrd0_code                            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                               |               |
 8 |                  mcrd0_code                   |   mcrd1_code  |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
12 |                         mcrd1_code                            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
```

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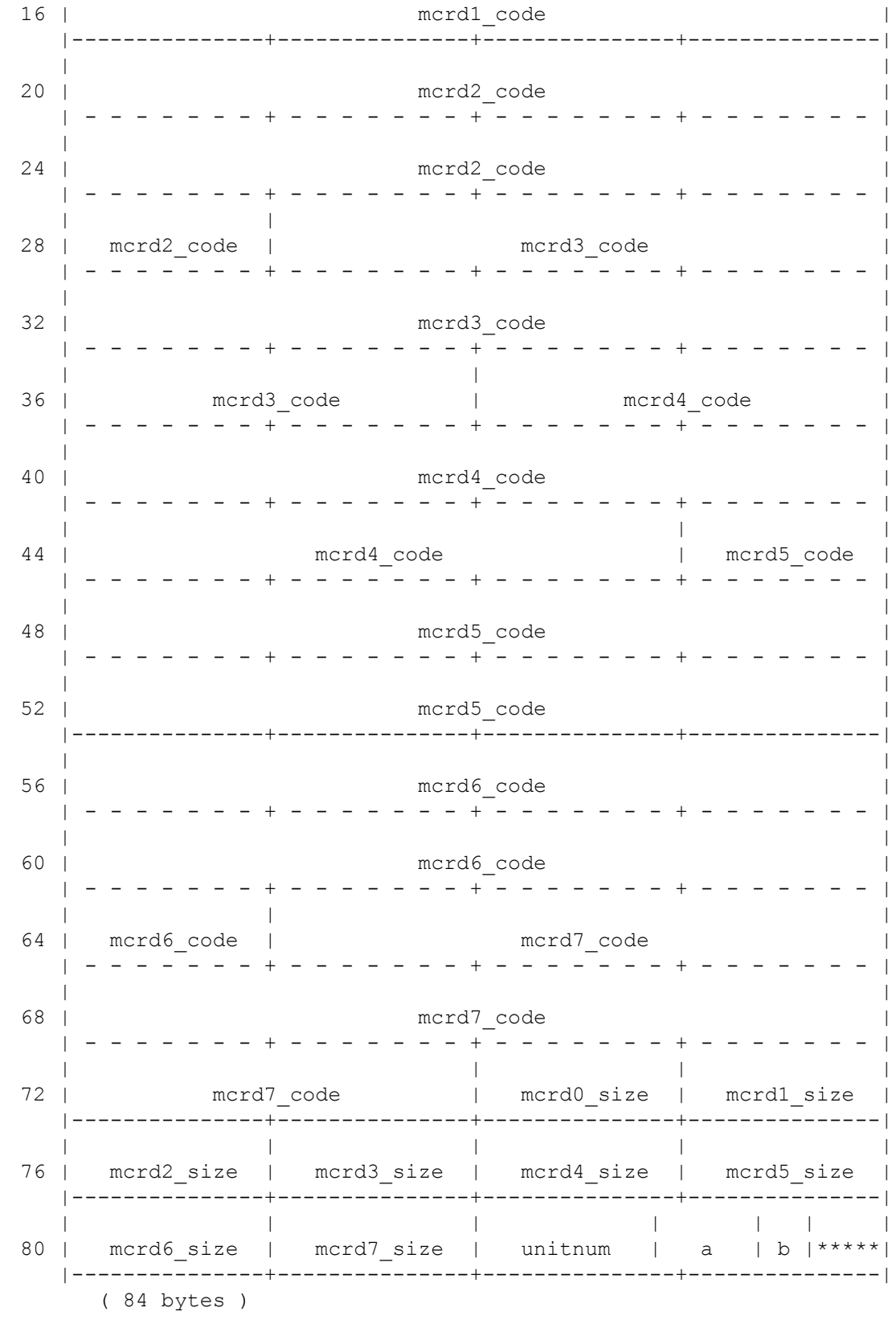


## 4. Population Rules for RLsasfmcrd

**Relation Description**
SAS memory flash cards.

Stores information on memory flash cards assigned to a SAS memory board.
QUANTITY OF TUPLES: 32 tuples, maximum, per SAS

**Attribute: ckt_indx**

**Fullname:** circuit index

**Attribute Description** circuit index for this SAS

**Attribute: unitnum**

**Fullname:** unit number

**Attribute Description** Unit number of SAS

**Attribute: brdnum**

**Fullname:** board number

**Attribute Description** Number of the SAS memory board. This attribute contains the value of RC/V RC_EQSASP field PACK NUMBER minus 1

**Attribute: crds_equip**

**Fullname:** cards equipped

**Attribute Description** Number of memory cards equipped for this board

**Attribute: mcrd0_size**

**Fullname:** memory card zero size

**Attribute Description** Card density of memory card zero

**Attribute: mcrd1_size**

**Fullname:** memory card one size

**Attribute Description** Card density of memory card one

**Attribute: mcrd2_size**

**Fullname:** memory card two size

**Attribute Description** Card density of memory card two

**Attribute: mcrd3_size**

**Fullname:** memory card three size

**Attribute Description** Card density of memory card three

**Attribute: mcrd4_size**

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**Fullname:** memory card four size

**Attribute Description** Card density of memory card four

**Attribute: mcrd5_size**

**Fullname:** memory card five size

**Attribute Description** Card density of memory card five

**Attribute: mcrd6_size**

**Fullname:** memory card six size

**Attribute Description** Card density of memory card six

**Attribute: mcrd7_size**

**Fullname:** memory card seven size

**Attribute Description** Card density of memory card seven

**Attribute: mcrd0_code**

**Fullname:** memory card zero code

**Attribute Description** Card version number of memory card zero

**Attribute: mcrd1_code**

**Fullname:** memory card one code

**Attribute Description** Card version number of memory card one

**Attribute: mcrd2_code**

**Fullname:** memory card two code

**Attribute Description** Card version number of memory card two

**Attribute: mcrd3_code**

**Fullname:** memory card three code

**Attribute Description** Card version number of memory card three

**Attribute: mcrd4_code**

**Fullname:** memory card four code

**Attribute Description** Card version number of memory card four

**Attribute: mcrd5_code**

**Fullname:** memory card five code

**Attribute Description** Card version number of memory card five

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**Attribute: mcrd6_code**

**Fullname:** memory card six code

**Attribute Description** Card version number of memory card six

**Attribute: mcrd7_code**

**Fullname:** memory card seven code

**Attribute Description** Card version number of memory card seven

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# SC_CF

## 1. Description

Speed calling constructed feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 2 |
| l1 length of subkey1 | 10 |
| p1 position of subkey1 | 6 |
| ks key store | AUTO |
| ignore kdy bits | 0-5 |

## 3. Field Layout

```
SC_CF       relid = 1257  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     feat_id     DMMCC_FID    (ushort)  <--- key
     sc          DMSC_TYPE    (enum: 2)
 (a) ch_sc       DMBOOL       (enum: 1)
 (b) ffcf1       DMBOOL       (enum: 1)
 (c) ffcf2       DMBOOL       (enum: 1)
 (d) ffcf3       DMBOOL       (enum: 1)
 (e) ffcf4       DMBOOL       (enum: 1)
     dnfltr      DMMCDNFLTR   (struct)
 (f)     all_pass    DMBOOL       (enum: 1)
 (g)     optn_a      DMBOOL       (enum: 1)
 (h)     optn_b      DMBOOL       (enum: 1)
 (i)     optn_c      DMBOOL       (enum: 1)
 (j)     optn_d      DMBOOL       (enum: 1)
 (k)     optn_e      DMBOOL       (enum: 1)
 (l)     optn_f      DMBOOL       (enum: 1)
 (m)     optn_g      DMBOOL       (enum: 1)
 (n)     optn_h      DMBOOL       (enum: 1)
 (o)     optn_i      DMBOOL       (enum: 1)
 (p)     optn_j      DMBOOL       (enum: 1)
 (q)     optn_k      DMBOOL       (enum: 1)
 (r)     optn_l      DMBOOL       (enum: 1)
 (s)     optn_m      DMBOOL       (enum: 1)
 (t)     optn_n      DMBOOL       (enum: 1)
 (u)     optn_o      DMBOOL       (enum: 1)
 (v)     optn_p      DMBOOL       (enum: 1)
 (w)     optn_q      DMBOOL       (enum: 1)
 (x)     optn_18     DMBOOL       (enum: 1)
 (y)     optn_19     DMBOOL       (enum: 1)
 (z)     optn_20     DMBOOL       (enum: 1)
 (A)     optn_21     DMBOOL       (enum: 1)
 (B)     optn_22     DMBOOL       (enum: 1)
 (C)     optn_23     DMBOOL       (enum: 1)
 (D)     optn_24     DMBOOL       (enum: 1)
```

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```
(E)     optn_25     DMBOOL       (enum: 1)
(F)     optn_26     DMBOOL       (enum: 1)
(G)     optn_27     DMBOOL       (enum: 1)
(H)     optn_28     DMBOOL       (enum: 1)
(I)     optn_29     DMBOOL       (enum: 1)
(J)     optn_30     DMBOOL       (enum: 1)
(K)     optn_31     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout  SC_CF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |   | | | | | |                 |
 0 |            feat_id              | sc|a|b|c|d|e|*****************|
   |===============+===========  dnfltr ===========+===============|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 4 |f|g|h|i|j|k|l|m|n|o|p|q|r|s|t|u|v|w|x|y|z|A|B|C|D|E|F|G|H|I|J|K|
   |===============+===============+===============+===============|
      ( 8 bytes )
```

## 4. Population Rules for RLsc_cf

**Relation Description**
Construct the speed call feature.

Set the basic definition of the feature. Possibilities include one or two digit speed call, changeable or non-changeable speed call lists, and DN screening options.

**Attribute: feat_id**

**Fullname:** Feature identification

**Attribute Description** Identifies the constructed feature ID.

**Attribute: dnfltr**

**Fullname:** DN filter for restriction of customer originated RC

**Attribute Description** DN filtering is used to restrict what can be entered into a speed call list through customer originated recent change. Office originated recent change does not use DN filtering.

If dnfltr.all_pass == DBYES, then DN filtering will not be done. This is the equivalent of setting all DN filter options to DBYES. However, it allows the DN to pass the filtering process without examination of each bit in the structure.

A pass or DBYES means the DN in question will be processed normally. A fail or DBNO is considered a disallowed action and can not be entered into the speed call list.

If dnfltr.all_pass == DBNO, the other structure bits will be examined for their values. Each of the structure bits optn_a through optn_q is set to DBYES if the DN in question is to pass through that criterion and DBNO if it is to fail.

Additional usage information about DN screening options can be found in the domain, DMmcdnfltr.

Other structure bits, optn_19 through optn_31 are not used at this time.

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**Attribute: dnfltr.all_pass**

**Fullname:** All DNs pass

**Attribute Description** All DNs pass through the DN filter.

**Attribute: dnfltr.optn_a**

**Fullname:** Option A

**Attribute Description** DNs with option A filtering pass through the filter.

**Attribute: dnfltr.optn_b**

**Fullname:** Option B

**Attribute Description** DNs with option B filtering pass through the filter.

**Attribute: dnfltr.optn_c**

**Fullname:** Option C

**Attribute Description** DNs with option C filtering pass through the filter.

**Attribute: dnfltr.optn_d**

**Fullname:** Option D

**Attribute Description** DNs with option D filtering pass through the filter.

**Attribute: dnfltr.optn_e**

**Fullname:** Option E

**Attribute Description** DNs with option E filtering pass through the filter.

**Attribute: dnfltr.optn_f**

**Fullname:** Option F

**Attribute Description** DNs with option F filtering pass through the filter.

**Attribute: dnfltr.optn_g**

**Fullname:** Option G

**Attribute Description** DNs with option G filtering pass through the filter.

**Attribute: dnfltr.optn_h**

**Fullname:** Option H

**Attribute Description** DNs with option H filtering pass through the filter.

**Attribute: dnfltr.optn_i**

**Fullname:** Option I

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**Attribute Description** DNs with option I filtering pass through the filter.

**Attribute: dnfltr.optn_j**

**Fullname:** Option J

**Attribute Description** DNs with option J filtering pass through the filter.
When the system recognizes an IDP speed call code as the dialed number, the stored number is retrieved, and checked to see if it satisfies the other screening options selected. The retrieved number can not be another speed call number. If the screening is passes then the system utilizes the resulting number. For example, the storage of a call forward number.

**Attribute: dnfltr.optn_k**

**Fullname:** Option K

**Attribute Description** DNs with option K filtering pass through the filter.

**Attribute: dnfltr.optn_l**

**Fullname:** Option L

**Attribute Description** DNs with option L filtering pass through the filter.

**Attribute: dnfltr.optn_m**

**Fullname:** Option M

**Attribute Description** DNs with option M filtering pass through the filter.

**Attribute: dnfltr.optn_n**

**Fullname:** Option N

**Attribute Description** DNs with option N filtering pass through the filter.

**Attribute: dnfltr.optn_o**

**Fullname:** Option O

**Attribute Description** DNs with option O filtering pass through the filter.

**Attribute: dnfltr.optn_p**

**Fullname:** Option P

**Attribute Description** DNs with option P filtering pass through the filter.
Option P is a PP precedence code. This code is used for storing customer changeable SC numbers. When set to DBYES, this option allows a PP precedence code followed by a telephone number to be stored in the SC list.

This option also allows a PP route code to be stored in the SC number.

**Attribute: dnfltr.optn_q**

**Fullname:** Option Q

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**Attribute Description** DNs with option Q filtering pass through the filter.

A PP AUTOVON CF number. This option is used with customer changeable call forwarding features. If set to DBYES, then the forward-to-DN number must be to a port that can receive Autovon calls. Also optn_a must be set to DBYES.

**Attribute: dnfltr.optn_18**

**Fullname:** Option 18

**Attribute Description** Unused at this time.

**Attribute: dnfltr.optn_19**

**Fullname:** Option 19

**Attribute Description** Unused at this time.

**Attribute: dnfltr.optn_20**

**Fullname:** Option 20

**Attribute Description** Unused at this time.

**Attribute: dnfltr.optn_21**

**Fullname:** Option 21

**Attribute Description** Unused at this time.

**Attribute: dnfltr.optn_22**

**Fullname:** Option 22

**Attribute Description** Unused at this time.

**Attribute: dnfltr.optn_23**

**Fullname:** Option 23

**Attribute Description** Unused at this time.

**Attribute: dnfltr.optn_24**

**Fullname:** Option 24

**Attribute Description** Unused at this time.

**Attribute: dnfltr.optn_25**

**Fullname:** Option 25

**Attribute Description** Unused at this time.

**Attribute: dnfltr.optn_26**

**Fullname:** Option 26

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**Attribute Description** Unused at this time.

**Attribute: dnfltr.optn_27**

**Fullname:** Option 27

**Attribute Description** Unused at this time.

**Attribute: dnfltr.optn_28**

**Fullname:** Option 28

**Attribute Description** Unused at this time.

**Attribute: dnfltr.optn_29**

**Fullname:** Option 29

**Attribute Description** Unused at this time.

**Attribute: dnfltr.optn_30**

**Fullname:** Option 30

**Attribute Description** Unused at this time.

**Attribute: dnfltr.optn_31**

**Fullname:** Option 31

**Attribute Description** Unused at this time.

**Attribute: sc**

**Fullname:** Speed Calling List

**Attribute Description** Indicates whether one digit speed calling or two digit speed calling is used.

**Attribute: ch_sc**

**Fullname:** Customer Changeable Speed Calling

**Attribute Description** Indicate whether the customer is allowed to change the speed calling list. Customer changeable speed calling == DBYES, non-changeable speed calling == DBNO.

**Attribute: ffcf1**

**Fullname:** Future field 1

**Attribute Description** Future field feature use.

**Attribute: ffcf2**

**Fullname:** Future field 2

**Attribute Description** Future field feature use.

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**Attribute: ffcf3**

**Fullname:** Future field 3

**Attribute Description** Future field  feature use.

**Attribute: ffcf4**

**Fullname:** Future field 4

**Attribute Description** Future field  feature use.

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# SC_OPTS

## 1. Description

This relation defines the feature definition options and defaults for a speed calling feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 2 |
| l1 length of subkey1 | 10 |
| p1 position of subkey1 | 6 |
| ks key store | AUTO |
| ignore key bits | 0-5 |

## 3. Field Layout

```
SC_OPTS     relid = 1258  DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     feat_id     DMMCC_FID    (ushort)     <--- key
     sc          DMSC_TYPE    (enum: 2)
 (a) ch_sc       DMBOOL       (enum: 1)
 (b) sc_shared   DMBOOL       (enum: 1)
 (c) ffcf1       DMBOOL       (enum: 1)
 (d) ffcf2       DMBOOL       (enum: 1)
 (e) ffcf3       DMBOOL       (enum: 1)
 (f) ffcf4       DMBOOL       (enum: 1)
     sc_name     DMFNAME      (array [ 16 ] of char )
     dnfltr      DMMCDNFLTR   (struct)
 (g)     all_pass    DMBOOL       (enum: 1)
 (h)     optn_a      DMBOOL       (enum: 1)
 (i)     optn_b      DMBOOL       (enum: 1)
 (j)     optn_c      DMBOOL       (enum: 1)
 (k)     optn_d      DMBOOL       (enum: 1)
 (l)     optn_e      DMBOOL       (enum: 1)
 (m)     optn_f      DMBOOL       (enum: 1)
 (n)     optn_g      DMBOOL       (enum: 1)
 (o)     optn_h      DMBOOL       (enum: 1)
 (p)     optn_i      DMBOOL       (enum: 1)
 (q)     optn_j      DMBOOL       (enum: 1)
 (r)     optn_k      DMBOOL       (enum: 1)
 (s)     optn_l      DMBOOL       (enum: 1)
 (t)     optn_m      DMBOOL       (enum: 1)
 (u)     optn_n      DMBOOL       (enum: 1)
 (v)     optn_o      DMBOOL       (enum: 1)
 (w)     optn_p      DMBOOL       (enum: 1)
 (x)     optn_q      DMBOOL       (enum: 1)
 (y)     optn_18     DMBOOL       (enum: 1)
 (z)     optn_19     DMBOOL       (enum: 1)
 (A)     optn_20     DMBOOL       (enum: 1)
 (B)     optn_21     DMBOOL       (enum: 1)
```

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```
(C)     optn_22     DMBOOL       (enum: 1)
(D)     optn_23     DMBOOL       (enum: 1)
(E)     optn_24     DMBOOL       (enum: 1)
(F)     optn_25     DMBOOL       (enum: 1)
(G)     optn_26     DMBOOL       (enum: 1)
(H)     optn_27     DMBOOL       (enum: 1)
(I)     optn_28     DMBOOL       (enum: 1)
(J)     optn_29     DMBOOL       (enum: 1)
(K)     optn_30     DMBOOL       (enum: 1)
(L)     optn_31     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout    SC_OPTS
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |   | | | | | | |               |
 0 |            feat_id            | sc|a|b|c|d|e|f|    sc_name    |
   | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                                 |
 4 |                           sc_name                               |
   | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                                 |
 8 |                           sc_name                               |
   | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                                 |
12 |                           sc_name                               |
   | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                 |               |
16 |                   sc_name                       |***************|
   |===============+===========  dnfltr ===========+===============|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
20 |g|h|i|j|k|l|m|n|o|p|q|r|s|t|u|v|w|x|y|z|A|B|C|D|E|F|G|H|I|J|K|L|
   |===============+===============+===============+===============|
      ( 24 bytes )
```

## 4. Population Rules for RLsc_opts

**Relation Description**
Speed Calling Feature Definition Options and Defaults

This relation defines the feature definition options and defaults for a speed calling feature.

**Attribute: feat_id**

**Fullname:** Feature identification

**Attribute Description** Speed Calling Constructed Feature Identification.

**Attribute: sc**

**Fullname:** Speed Calling

**Attribute Description** Is one digit or two digit speed calling allowed?

**Attribute: ch_sc**

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**Fullname:** Changeable speed calling

**Attribute Description** Is speed calling customer changeable?
DBNO == not changeable, DBYES == changeable.

**Attribute: dnfltr**

**Fullname:** DN Filtering

**Attribute Description** DN filtering is used to restrict what can be entered into a Speed Call List through customer originated Recent Change. Office originated RC does not use DN filtering.

If dnfltr.all_pass == DBYES, then DN filtering will not be done. This is the equivalent of setting all DN filter options to DBYES. However, it allows the DN to pass the filtering process without examination of each bit in the structure.

A pass of DBYES means the DN in question will be processed normally. A fail or DBNO is considered a disallowed action and can not be entered into the Speed Call list.

If dnfltr.all_pass == DBNO, the other structure bits will be examined for their values. Each of the structure bits optn_a through optn_q is set to DBYES if the DN in question is to pass through that criterion and DBNO if it is to fail.

Additional usage information on the DN filtering options can be found in the domain, DMmcdnfltr.

Other structure bits, optn_19 through optn_31 are not used at this time.

**Attribute: dnfltr.all_pass**

**Fullname:** All DNs Pass

**Attribute Description** When all_pass == DBYES, DN filtering is not done. This is the same a setting all the bits to DBYES: however, it allows the DN to pass the filtering process without actually examining each bit in the structure.

**Attribute: dnfltr.optn_a**

**Fullname:** DN Filtering Option A

**Attribute Description** Select DN Filtering Option A.

**Attribute: dnfltr.optn_b**

**Fullname:** DN Filtering Option B

**Attribute Description** Select DN Filtering Option B.

**Attribute: dnfltr.optn_c**

**Fullname:** DN Filtering Option C

**Attribute Description** Select DN Filtering Option C.

**Attribute: dnfltr.optn_d**

**Fullname:** DN Filtering Option D

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**Attribute Description** Select DN Filtering Option D.

**Attribute: dnfltr.optn_e**

**Fullname:** DN Filtering Option E

**Attribute Description** Select DN Filtering Option E.

**Attribute: dnfltr.optn_f**

**Fullname:** DN Filtering Option F

**Attribute Description** Select DN Filtering Option F.

**Attribute: dnfltr.optn_g**

**Fullname:** DN Filtering Option G

**Attribute Description** Select DN Filtering Option G.

**Attribute: dnfltr.optn_h**

**Fullname:** DN Filtering Option H

**Attribute Description** Select DN Filtering Option H.

**Attribute: dnfltr.optn_i**

**Fullname:** DN Filtering Option I

**Attribute Description** Select DN Filtering Option I.

**Attribute: dnfltr.optn_j**

**Fullname:** DN Filtering Option J

**Attribute Description** Select DN Filtering Option J.

When the system recognizes an IDP speed call code as the dialed number, the stored number is retrieved, and checked to see if it satisfies the other screening options selected. The retrieved number can not be another speed call number. If the screening is passes then the system utilizes the resulting number. For example, the storage of a call forward number.

**Attribute: dnfltr.optn_k**

**Fullname:** DN Filtering Option K

**Attribute Description** Select DN Filtering Option K.

**Attribute: dnfltr.optn_l**

**Fullname:** DN Filtering Option L

**Attribute Description** Select DN Filtering Option L.

**Attribute: dnfltr.optn_m**

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**Fullname:** DN Filtering Option M

**Attribute Description** Select DN Filtering Option M.

**Attribute: dnfltr.optn_n**

**Fullname:** DN Filtering Option N

**Attribute Description** Select DN Filtering Option N.

**Attribute: dnfltr.optn_o**

**Fullname:** DN Filtering Option O

**Attribute Description** Select DN Filtering Option O.

**Attribute: dnfltr.optn_p**

**Fullname:** DN Filtering Option P

**Attribute Description** Select DN Filtering Option P.

Option P is a PP precedence code. This code is used for storing customer changeable SC numbers. When set to DBYES, this option allows a PP precedence code followed by a telephone number to be stored in the SC list.

This option also allows a PP route code to be stored in the SC number.

**Attribute: dnfltr.optn_q**

**Fullname:** DN Filtering Option Q

**Attribute Description** Select DN Filtering Option Q.

A PP Autovon CF number. This option is used with customer changeable call forwarding features. If set to DBYES, then the forward-to-dn number must be to a port that can receive Autovon calls. Also optn_a must be set to DBYES.

**Attribute: dnfltr.optn_18**

**Fullname:** Option 18

**Attribute Description** Not used at this time.

**Attribute: dnfltr.optn_19**

**Fullname:** Option 19

**Attribute Description** Not used at this time.

**Attribute: dnfltr.optn_20**

**Fullname:** Option 20

**Attribute Description** Not used at this time.

**Attribute: dnfltr.optn_21**

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**Fullname:** Option 21

**Attribute Description** Not used at this time.

**Attribute: dnfltr.optn_22**

**Fullname:** Option 22

**Attribute Description** Not used at this time.

**Attribute: dnfltr.optn_23**

**Fullname:** Option 23

**Attribute Description** Not used at this time.

**Attribute: dnfltr.optn_24**

**Fullname:** Option 24

**Attribute Description** Not used at this time.

**Attribute: dnfltr.optn_25**

**Fullname:** Option 25

**Attribute Description** Not used at this time.

**Attribute: dnfltr.optn_26**

**Fullname:** Option 26

**Attribute Description** Not used at this time.

**Attribute: dnfltr.optn_27**

**Fullname:** Option 27

**Attribute Description** Not used at this time.

**Attribute: dnfltr.optn_28**

**Fullname:** Option 28

**Attribute Description** Not used at this time.

**Attribute: dnfltr.optn_29**

**Fullname:** Option 29

**Attribute Description** Not used at this time.

**Attribute: dnfltr.optn_30**

**Fullname:** Option 30

**Attribute Description** Not used at this time.

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**Attribute: dnfltr.optn_31**

**Fullname:** Option 31

**Attribute Description** Not used at this time.

**Attribute: sc_name**

**Fullname:** Default Speed Calling Name

**Attribute Description** Default Speed Calling List Name.

If the SC list is a unshared list, the name need not be known. A name will automatically be assigned with the proper format.

For analog lines and DSLs (such has TNs, OEs, and MLHG members which have telephone numbers) the format will be Axxxxxxxxxx where xxxxxxxxxx corresponds to the TN.

For TGNs, the format will be yyyyzzzz where yyyy is the TGN and zzzz is the MEMB. Both yyyy and zzzz will be filled with leading zeroes if necessary.

If the SC list is shared, the name must be specified and it cannot be of the form Axxxxxxxxxx or yyyyzzzz.

**Attribute: sc_shared**

**Fullname:** Default Speed Calling Shared List

**Attribute Description** Is the speed calling list shared with another list? DBNO == unshared list, DBYES == shared list.

**Attribute: ffcf1**

**Fullname:** Future field 1

**Attribute Description** future field feature use

**Attribute: ffcf2**

**Fullname:** Future field 2

**Attribute Description** future field feature use

**Attribute: ffcf3**

**Fullname:** Future field 3

**Attribute Description** future field feature use

**Attribute: ffcf4**

**Fullname:** Future field 4

**Attribute Description** Reserved for future field feature use.

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# SC_PORT

## 1. Description

Speed calling feature per port data. This relation is common for lines and trunks.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 57600 |
| expected number of tuples | 142 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| density | 64 |
| foldtype | DBGC31 |

## 3. Field Layout

```
SC_PORT     relid = 1259  DBSTATIC   DBACC_HASH  DBPRAM    LPFPFG  RCMAP
     lport       DMLPORT      (ushort: 16)  <--- key
     feat_id     DMMCC_FID    (ushort)  <--- key
     sc_list_id  DMIDP_ADID   (ushort)
 (a) lpt_type    DMLPT_TYPE   (enum: 2)  <--- key
     sc          DMSC_TYPE    (enum: 2)
 (b) sc_shared   DMBOOL       (enum: 1)
 (c) ffcf1       DMBOOL       (enum: 1)
 (d) ffcf2       DMBOOL       (enum: 1)
 (e) ffcf3       DMBOOL       (enum: 1)
 (f) ffcf4       DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout    SC_PORT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |              lport             |            feat_id            |
    |---------------+---------------+---------------+---------------|
    |                                |   |   | | | | | |             |
  4 |           sc_list_id           | a | sc|b|c|d|e|f|*************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLsc_port

**Relation Description**
Assignment of BRCS speed calling features to logical port.

Two speed call features will be allowed per port, however, there are limits on the assignment. Valid assignments include a one-digit speed calling feature, and/or a two-digit speed calling feature. It invalid to assign more than one type of one-digit or two-digit speed calling to the same port.

**Attribute: lport**

**Fullname:** Logical Port

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**Attribute Description** Logical port of the user being assigned the BRCS features.

See the CHECK section in the *5ESS®-2000 Switch Population Rules Language Data Manual* (235-600-123) for the rules relating to this attribute.

**Attribute: lpt_type**

**Fullname:** Logical Port Type

**Attribute Description** Logical port of the user being assigned the BRCS features. There are 4 allowed values for this attribute:

```
LPT_ISDN    for ISDN and shared analog users,
LPT_BFG     for BFG tuples,
LPT_PACKET  for ODB and PPD packet services,
LPT_OTHER   for unshared analog lines and BRCS trunks.
```

See the CHECK section in the *5ESS®-2000 Switch Population Rules Language Data Manual* (235-600-123) for the rules relating to this attribute.

**Attribute: feat_id**

**Fullname:** Feature Identification

**Attribute Description** Identifies the constructed feature ID.

**Attribute: sc_list_id**

**Fullname:** Speed Calling List Identification

**Attribute Description** Indicates the speed calling list ID assigned to this user.

**Attribute: sc_shared**

**Fullname:** Speed Calling Shared List

**Attribute Description** Indicates whether the speed calling list is shared (DBYES) or not shared (DBNO) with other lines.

**Attribute: sc**

**Fullname:** Speed Calling type indicator

**Attribute Description** The value is used to indicate the type of speed calling which is assigned to the port. One-digit and two-digit speed calling are the allowed values. The value of SC_BOTH is not allowed in RLsc_port because the wild card feature should never be assigned to a port.

**Attribute: ffcf1**

**Fullname:** Future field 1.

**Attribute Description** Future field feature use.

**Attribute: ffcf2**

**Fullname:** Future field 2.

**Attribute Description** Future field feature use.

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**Attribute: ffcf3**

**Fullname:** Future field 3.

**Attribute Description** Future field  feature use.

**Attribute: ffcf4**

**Fullname:** Future field 4.

**Attribute Description** Future field  feature use.

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# SC_RANGE

## 1. Description

This relation conatins the screening range.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 1024 |
| permutation type | un_perm |

## 3. Field Layout

```
SC_RANGE    relid = 1342  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     pbx_id      DMPBX_ID     (ushort: 12)    <--- key
     tuple_idx   DMUNS6       (ushort: 6)    <--- key
     num_range   DMUNS9       (ushort: 9)
     range1      DMSCRANGE    (struct)
         npa             DMHEX16      (ushort)
         nxx             DMHEX16      (ushort)
         low_dig_limit   DMHEX16      (ushort)
         high_dig_limit DMHEX16       (ushort)
     range2      DMSCRANGE    (struct)
         npa             DMHEX16      (ushort)
         nxx             DMHEX16      (ushort)
         low_dig_limit   DMHEX16      (ushort)
         high_dig_limit DMHEX16       (ushort)
     range3      DMSCRANGE    (struct)
         npa             DMHEX16      (ushort)
         nxx             DMHEX16      (ushort)
         low_dig_limit   DMHEX16      (ushort)
         high_dig_limit DMHEX16       (ushort)
     range4      DMSCRANGE    (struct)
         npa             DMHEX16      (ushort)
         nxx             DMHEX16      (ushort)
         low_dig_limit   DMHEX16      (ushort)
         high_dig_limit DMHEX16       (ushort)
     range5      DMSCRANGE    (struct)
         npa             DMHEX16      (ushort)
         nxx             DMHEX16      (ushort)
         low_dig_limit   DMHEX16      (ushort)
         high_dig_limit DMHEX16       (ushort)

         User, Compacted and Stored Tuple Layout   SC_RANGE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |       |           |                   | |
  0 |         pbx_id        |*******| tuple_idx |    num_range      |*|
    |===============+===========  range1 ===========+===============|
```

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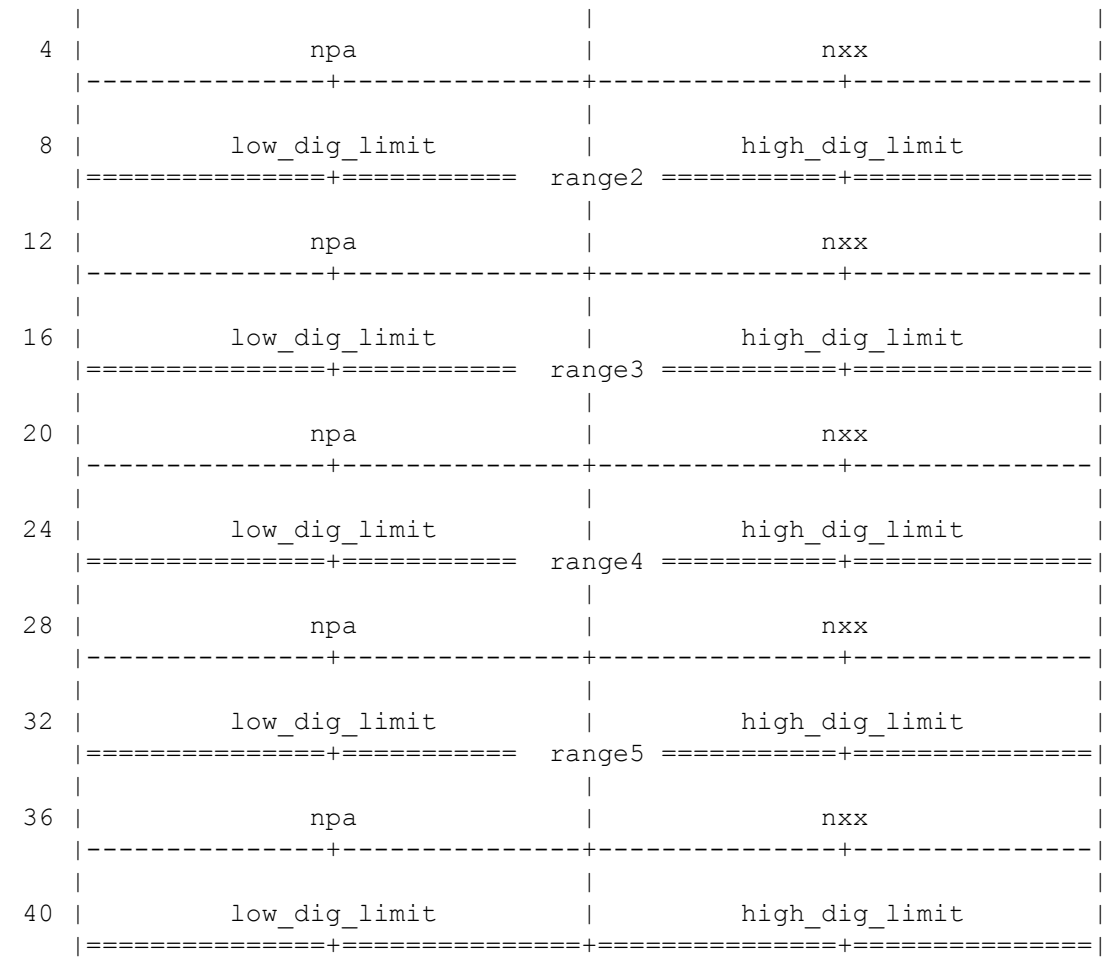
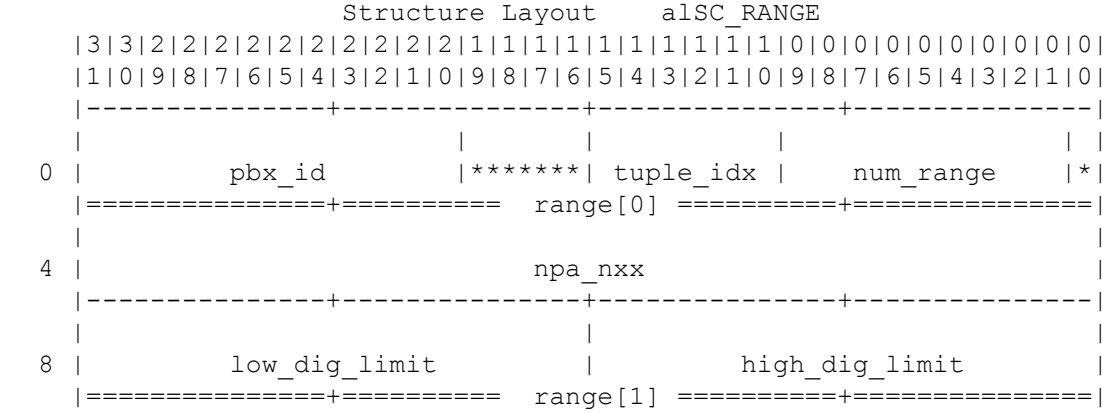



```
domain alSC_RANGE struct  (4 sub-attributes)
        pbx_id      .3.fake      (ushort: 12)
        tuple_idx   .4.fake      (ushort: 6)
        num_range   .5.fake      (ushort: 9)
        range       .6.fake      (array [ 5 ] of alSCRANGE )
            npa_nxx     unsigned long (ulong)
            low_dig_limit  unsigned short (ushort)
            high_dig_limit  unsigned short (ushort)
```

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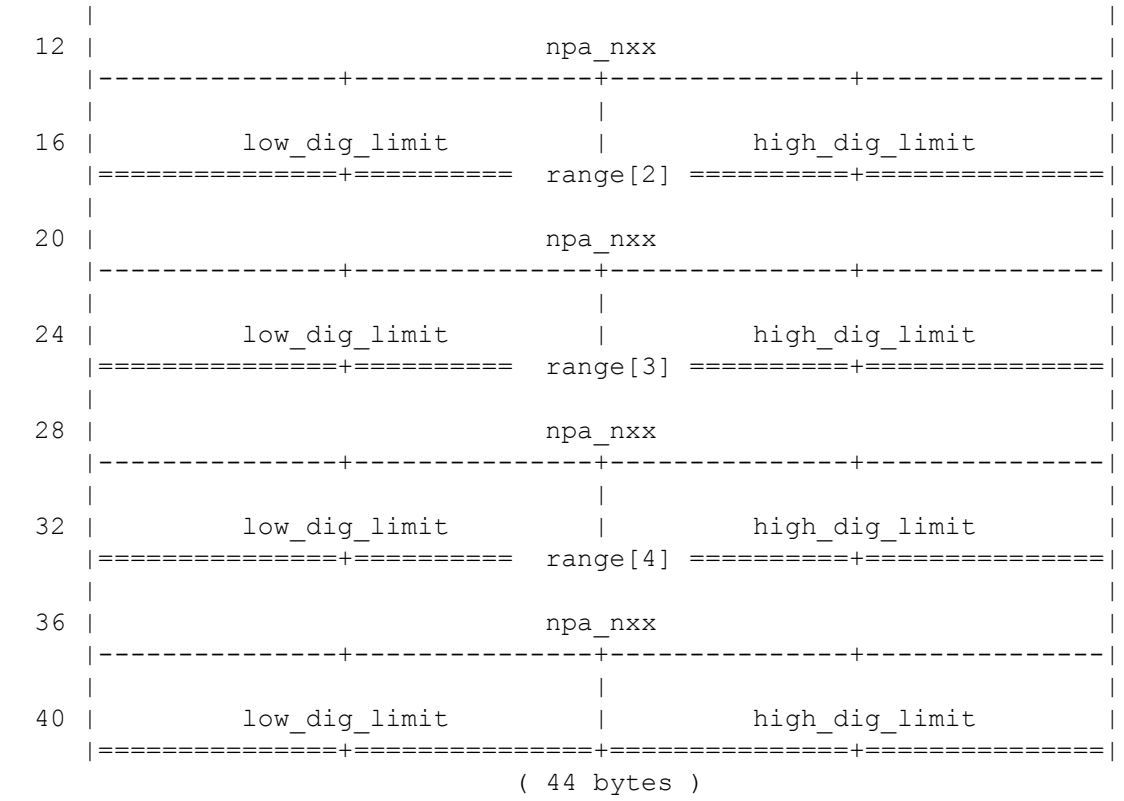


## 4. Population rules for RLsc_range

### Relation Description

PBX Screening Range Relation

RLsc_range can contain up to 20 ranges of DNs per PBX that are to be screened. Calling Party Numbers (CPN) provided over a Primary Rate Interface (PRI) will be screened against the ranges of numbers for the PBX connected to the PRI, if the RLedsltrkg.cpn_scrn attribute is set to DBYES. (RLedsltrkg.grpnum = RLrt_trkg.grpnum and RLrt_trkg.pbx_id = RLsc_range.pbx_id.) If the user-provided CPN is in one of the ranges, then it passes screening. If it is not in one of the ranges, it fails screening. CPNs that fail screening may be discarded and replaced with a network provided CPN. The RLedsltrkg.cpn_disc attribute indicates whether the CPN should be discarded. If it is set to DBYES, then the user-provided CPN is discarded and replaced with the RLedsltrkg.main_dn if it is populated. If the RLedsltrkg.main_dn is not populated then no CPN will be provided This relation will be keyed by pbx_id (identifier of the PBX) and tuple_idx. The pbx_id attribute is defined in RLrt_trkg and RLfc_trunk for those trunk groups connected to a PBX. Other attributes of this relation are 'num_range' (number of ranges), 'range1' thru 'range5' (DN ranges 1 thru 5). Note that only 5 ranges can be specified per tuple. This means that if a PBX can have up to 20 ranges specified, a maximum of 4 tuples can be populated in this relation for each PBX.

**Attribute:**

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pbx_id

**Fullname:**

PBX/CPE ID Identifier

**Attribute Description:**

This attribute identifies the PBX or other customer premise equipment that the screening ranges are associated with. The pbx_id and tuple_idx are used as keys to this relation. Range of values for this attribute is 1 thru 4095.

**Attribute:**

tuple_idx

**Fullname:**

Screening Range Tuple Index

**Attribute Description:**

This attribute is populated with values 0 thru 3 based on the number of screening ranges. Each RLsc_range tuple can contain from 1 to 5 screening ranges. Each PBX can have up to 20 ranges specified. This means each PBX could have a maximum of four RLsc_range tuples populated The tuple_idx attribute indicates which tuple for the PBX this is, and thereby indicates which ranges are populated in this tuple. Tuple_idx would be populated for a PBX that has 20 ranges as follows:

| Screening Ranges | tuple_idx Value |
|---|---|
| 1 thru 5 | 0 |
| 6 thru 10 | 1 |
| 11 thru 15 | 2 |
| 16 thru 20 | 3 |

When tuple_idx = 0, RLsc_range.num_range gives the number of screening ranges for this PBX. Else, if tuple_idx is non-zero, RLsc_range.num_range must be 0.

**Attribute:**

num_range

**Fullname:**

Number of Screening Ranges for a PBX

**Attribute Description:**

This attribute contains the number (1 thru 20) of screening ranges associated with this PBX.

Dependency: if more than one tuple exists for this PBX, num_range will be populated on the first tuple (that tuple where tuple_idx = 0). In all other tuples associated with a PBX, this attribute must = 0. This attribute must be updated when ranges are added to or deleted from this PBX.

**Attribute:**

range1

**Fullname:**

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Screening Range 1

**Attribute Description:**

This attribute is the first range of DNs to be screened for this PBX. Since a PBX can have up to four tuples populated, this attribute would actually represent range 1 in tuple 1, range 6 in tuple 2, range 11 in tuple 3 and range 16 in tuple 4. A range consists of a 10 digit number for the lowest number in the range and a 10 digit number for the highest number in the range. The 10 digit numbers must have the same NPA and NXX. The range is stored as the NPA, the NXX, the low 4 digits of the lowest number, and the low 4 digits of the highest number. The upper bound of the range must be greater than or equal to the lower bound of the range. There must not be any overlap of this range with any of the other ranges for this pbx_id. The changes have been made for screen name pbx_id to PBX/CPE ID, the class 2 equipment. The range is stored in BCD (see usage for npa and nxx. Given a number (312)971-4837, its internal representation should be as folllows:

npa

| 0 | 3 | 1 | 2 |
|---|---|---|---|

nxx

| 0 | 9 | 7 | 1 |
|---|---|---|---|

xxxx

| 4 | 8 | 3 | 7 |
|---|---|---|---|

**Attribute:**

range1.npa

**Fullname:**

Numbering Plan Area

**Attribute Description:**

This attribute identifies the Numbering Plan Area of this PBX. The NPA is stored in a 4 digit BCD number. The first digit (leftmost) of this BCD number is always 0. The NPA is stored in the next three digits. The first digit of the NPA must be 2 - 9; the second digit must be 0 - 9, and the third digit must be 0 - 9. If this range is not populated, then the range1.npa must be set to 0.

The internal data representation of range1.npa could be described by the following picture.

|D1 |D2 |D3 |D4 |

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```
        +---+---+---+---+
```

where: D1 is always 0
D2 is any number from 2 through 9
D3 is any number from 0 through 9
D4 is any number from 0 through 9
Note: each cell consists of 4 bits.

**Attribute:**
range1.nxx
**Fullname:**
Office Code of PBX
**Attribute Description:**
This attribute contains the Office Code of the PBX. The NXX is stored in a 4 digit BCD number. The first digit (leftmost) of this BCD number is always 0. The NXX is stored in the next three digits. The first digit of the NXX must be 2 - 9; the second digit must be 0 - 9, and the third digit must be 0 - 9. If this range is not populated, then range1.nxx must be 0.

The internal data representation of range1.nxx could be described by the following picture.

```
        +---+---+---+---+
        |D1 |D2 |D3 |D4 |
        +---+---+---+---+
```

Where: D1 is always 0
D2 is any number from 2 through 9
D3 and D4 are any numbers 0 through 9
Note: each cell consists of 4 bits.

**Attribute:**
range1.low_dig_limit
**Fullname:**
Lower Limit Four Digits
**Attribute Description:**
This attribute identifies the lower four digits for the lower bound of the DN range. When a CPN is received from a PBX, it is in the form NPA-NXX-XXXX. It is these last four digits that are checked against the lower and higher limit values for each range. If a user-provided CPN IS found to be within one of the ranges for this PBX, it is marked as screened and passed. If the user-provided CPN does not fall within a range, it may be discarded and replaced with a network-provided CPN. See the population rules for RLedsltrkg.cpn_disc. These lower 4 digits are stored in BCD with the last digit stored in the rightmost position. If this range is not populated, then range1.low_dig_limit must be set to 0.
The internal data representation of range1.xxxx could be described by the following picture.

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```
+---+---+---+---+
|D1 |D2 |D3 |D4 |
+---+---+---+---+
```

Where: D1, D2, D3 and D4 are any numbers 0 through 9
Note: each cell consists of 4 bits.

**Attribute:**
range1.high_dig_limit
**Fullname:**
Higher limit 4 digits
**Attribute Description:**
This attribute identifies the lower four digits for the upper bound of the DN range. When a CPN is received from a PBX, it is in the form NPA-NXX-XXXX. It is these last four digits that are checked against the lower and higher limit values for each range. If a user-provided CPN IS found to be within one of the ranges for this PBX, it is marked as screened and passed. If the user-provided CPN does not fall within a range, it may be discarded and replaced with a network-provided CPN. See the population rules for RLedsltrkg.cpn_disc. These lower 4 digits are stored in BCD with the last digit stored in the rightmost position. If this range is not populated, then range1.low_dig_limit must be set to 0.

The internal data representation of range1.xxxx could be described by the following picture.

```
+---+---+---+---+
|D1 |D2 |D3 |D4 |
+---+---+---+---+
```

Where: D1, D2, D3 and D4 are any numbers 0 through 9
Note: each cell consists of 4 bits.

**Attribute:**
range2
**Fullname:**
Screening Range 2
**Attribute Description:**
This attribute is the second range of DNs to be screened for this PBX. Since a PBX can have up to four tuples populated, this attribute would actually represent range 2 in tuple 1, range 7 in tuple 2, range 12 in tuple 3 and range 17 in tuple 4. A range consists of a 10 digit number for the lowest number in the range and a 10 digit number for the highest number in the range. The 10 digit numbers must have the same NPA and NXX. The range is stored as the NPA, the NXX, the low 4 digits of the lowest number, and the low 4 digits of the highest number. The upper bound of the range must be greater than or equal to the lower

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bound of the range. There must not be any overlap of this range with any of the other ranges for this pbx_id. The changes have been made for screen name pbx_id to PBX/CPE ID, the class 2 equipment.

**Attribute:**
range2.npa
**Fullname:**
Numbering Plan Area
**Attribute Description:**
See poprules for range1.npa

**Attribute:**
range2.nxx
**Fullname:**
Office Code of PBX
**Attribute Description:**
See poprules for range1.nxx

**Attribute:**
range2.low_dig_limit
**Fullname:**
Lower limit 4 digits
**Attribute Description:**
See poprules for range1.low_dig_limit

**Attribute:**
range2.high_dig_limit
**Fullname:**
Higher limit 4 digits
**Attribute Description:**
See poprules for range1.high_dig_limit

**Attribute:**
range3
**Fullname:**
Screening Range 3
**Attribute Description:**
This attribute is the third range of DNs to be screened by this PBX. Since a PBX can have up to four tuples populated, this attribute would actually represent range 3 in tuple 1, range 8 in tuple 2, range 13 in tuple 3 and range 18 in tuple 4. A range consists of a 10 digit number for the lowest number in the range and a 10 digit number for the highest number in the range. The 10 digit numbers must have the same NPA and NXX. The range is stored as the NPA, the NXX, the low 4 digits of the lowest number, and the low 4 digits of the highest number. The upper bound of the range must be greater than or equal to the lower bound of the range. There must not be any overlap of this

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range with any of the other ranges for this pbx_id. The changes have been made for screen name pbx_id to PBX/CPE ID, the class 2 equipment.

**Attribute:**
range3.npa
**Fullname:**
Numbering Plan Area
**Attribute Description:**
See poprules for range1.npa

**Attribute:**
range3.nxx
**Fullname:**
Office Code of PBX
**Attribute Description:**
See poprules for range1.nxx

**Attribute:**
range3.low_dig_limit
**Fullname:**
Lower limit 4 digits
**Attribute Description:**
See poprules for range1.low_dig_limit

**Attribute:**
range3.high_dig_limit
**Fullname:**
Higher limit 4 digits
**Attribute Description:**
See poprules for range1.high_dig_limit

**Attribute:**
range4
**Fullname:**
Screening Range 4
**Attribute Description:**
This attribute is the fourth range of DNs to be screened by this PBX. Since a PBX can have up to four tuples populated, this attribute would actually represent range 4 in tuple 1, range 9 in tuple 2, range 14 in tuple 3 and range 19 in tuple 4. A range consists of a 10 digit number for the lowest number in the range and a 10 digit number for the highest number in the range. The 10 digit numbers must have the same NPA and NXX. The range is stored as the NPA, the NXX, the low 4 digits of the lowest number, and the low 4 digits of the highest number. The upper bound of the range must be greater than or equal to the lower bound of the range. There must not be any overlap of this range with any of the other ranges for this pbx_id. The changes have

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been made for screen name pbx_id to PBX/CPE ID, the class 2 equipment.

**Attribute:**
range4.npa
**Fullname:**
Numbering Plan Area
**Attribute Description:**
See poprules for range1.npa

**Attribute:**
range4.nxx
**Fullname:**
Office Code of PBX
**Attribute Description:**
See poprules for range1.nxx

**Attribute:**
range4.low_dig_limit
**Fullname:**
Lower limit 4 digits
**Attribute Description:**
See poprules for range1.low_dig_limit

**Attribute:**
range4.high_dig_limit
**Fullname:**
Higher limit 4 digits
**Attribute Description:**
See poprules for range1.high_dig_limit

**Attribute:**
range5
**Fullname:**
Screening Range 5
**Attribute Description:**
This attribute is the fifth range of DNs to be screened by this PBX. Since a PBX can have up to four tuples populated, this attribute would actually represent range 5 in tuple 1, range 10 in tuple 2, range 15 in tuple 3 and range 20 in tuple 4. A range consists of a 10 digit number for the lowest number in the range and a 10 digit number for the highest number in the range. The 10 digit numbers must have the same NPA and NXX. The range is stored as the NPA, the NXX, the low 4 digits of the lowest number, and the low 4 digits of the highest number. The upper bound of the range must be greater than or equal to the lower bound of the range. There must not be any overlap of this range with any of the other ranges for this pbx_id. The changes have been made for screen name pbx_id to PBX/CPE ID, the class 2 equipment.

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**Attribute:**
range5.npa
**Fullname:**
Numbering Plan Area
**Attribute Description:**
See poprules for range1.npa

**Attribute:**
range5.nxx
**Fullname:**
Office Code of PBX
**Attribute Description:**
See poprules for range1.nxx

**Attribute:**
range5.low_dig_limit
**Fullname:**
Lower limit 4 digits
**Attribute Description:**
See poprules for range1.low_dig_limit

**Attribute:**
range5.high_dig_limit
**Fullname:**
Higher limit 4 digits
**Attribute Description:**
See poprules for range1.high_dig_limit

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# SCA_LTM

## 1. Description

Selective call acceptance (SCA) feature parameters on this logical termination port.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 4 |
| density | 2 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| corcable | DBYES |

## 3. Field Layout

```
SCA_LTM     relid = 1305  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     sca_idx     DMSEQIDX     (ushort: 16)
     ltm_idx     DMLTM_IDX    (ulong: 16)  <--- key
 (a) sca_nat     DMSCANAT     (enum: 2)
 (b) ltm_type    DMLTM_TYPE   (enum: 1)  <--- key
 (c) gen_avail   DMBOOL       (enum: 1)
 (d) car         DMBOOL       (enum: 1)
 (e) bs_rg_ind   DMBOOL       (enum: 1)
     fwd_dn      DMEDN32      (struct)
         dcnt32      DMDCNT32     (ushort: 6)
         edn32       DMEDIGSTR    (array [ 32 ] of char )
         User, Compacted and Stored Tuple Layout    SCA_LTM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            sca_idx            |            ltm_idx            |
    |---------------+---------------+---------------+---------------|
    |   | | | | |                                                   |
  4 | a |b|c|d|e|***************************************************|
    |===============+===========  fwd_dn ===========+===============|
    |           |                                                   |
  8 |   dcnt32  |***************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                           edn32                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                           edn32                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                           edn32                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 24 |                           edn32                               |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
```

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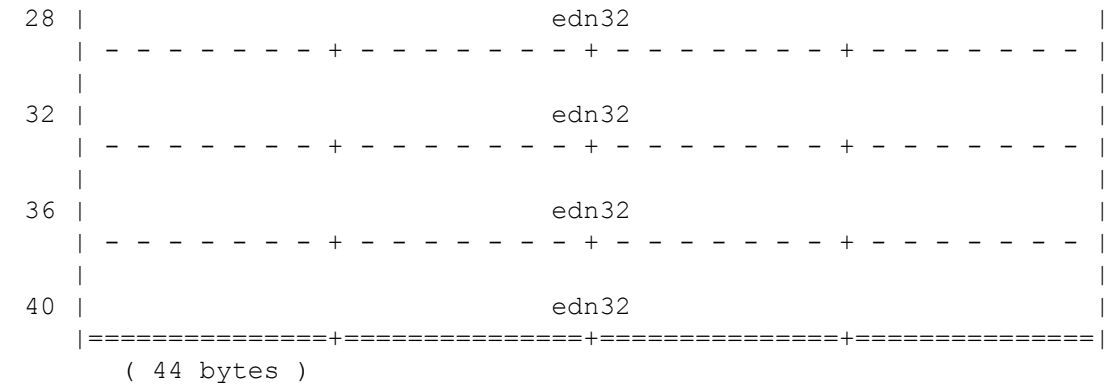


## 4. Population Rules for RLsca_ltm

**Relation Description**
Local Area Signaling Services Selective Call Acceptance.

This relation holds the index to the SCA screen list. It also contains Non-acceptance treatment, forward-to-dn, and base station ringing (ping-ring) option and a SCA/CAR indicator.

General Availability access to the LASS Selective Features is denied for the secondary only DNs and all the multi-line hunt group DNs. The 5E6 LASS selective features will not be allowed on Part IV terminals (ISDN PODS) defined in the 5E4 BRI specification. 5E6 LASS SCA feature will be offered only to the following service classes:

FC_INDVDL, FC_ISDN, FC_4WIRE_INDV, FC_PBX
For those lines which have a corresponding tuple in RLltsbport, this LSF data will only exist on the main(lead) port of 1-TN line time slot bridging (LTSB) lines.

**Attribute: ltm_type**

**Fullname:** Logical Termination index type

**Attribute Description** This is the logical termination type defined same as RLfc_line or RLis_line.

**Attribute: ltm_idx**

**Fullname:** Logical termination Index

**Attribute Description** This is the logical termination index defined same as RLfc_line or RLis_line relation.

**Attribute: gen_avail**

**Fullname:** General Availability

**Attribute Description** The gen_avail indicates the reason of the creation of this tuple. If the gen_avail is DBYES, this tuple is created through the general availability which is an office parameter, Glscaac. If this tuple is created through subscription, this field should be set to DBNO.

**Attribute: sca_idx**

**Fullname:** Selective Call Acceptance screen list index

**Attribute Description** The sca_idx is the index to SCA screen list tuples. (LSFSCA if gen_avail = DBNO; GENSCA if gen_avail = DBYES) The SCA screen list tuples associated with this ltm_idx

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can be accessed with the sca_idx and a range from 0 through 10. The sca_idx is allocated/deallocated through SMSEQIDX relation.

**Attribute: sca_nat**

**Fullname:** Selective Call Acceptance Non-Acceptance Treatment

**Attribute Description** This field indicates what type of non-acceptance treatment the calling party will receive if the call is screened by the Selective Call Acceptance feature. This field should defined as

```
NAT_NULL,   if the NAT is unspecified.
NAT_FWRD,   if the call will be forwarded.
NAT_RCRD   if an announcement will be given.
```

**Attribute: car**

**Fullname:** Computer Access Restriction

**Attribute Description** This field indicates whether this tuple is used for Computer Access Restriction feature. Set this field to DBYES for CAR. Otherwise set to DBNO.

**Attribute: bs_rg_ind**

**Fullname:** Base Station Reminder Ringing indicator

**Attribute Description** This field indicates whether a base station reminder ringing (ping ring) will be given when the call is forwarded. This field must be set to DBNO.

**Attribute: fwd_dn**

**Fullname:** Forward-to-DN

**Attribute Description** This field is used to store a forward-to-dn (RTN).

**Attribute: fwd_dn.dcnt32**

**Fullname:** Number of digits in the forward-to-dn

**Attribute Description** The dcnt32 is the number of digits in the forward-to-dn.

**Attribute: fwd_dn.edn32**

**Fullname:** Extended Directory Number

**Attribute Description** This field contains a DN in a BCD representation.

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# SCCP_DPC

## 1. Description

This relation will be used by the AM traffic measurements group to populate an AM accounting hash table for the SCCP DPC accounting feature. This relation will contain a tuple for every GT digit string/DPC/translation group and GSM performing SCCP accounting.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 200 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBDISK |
| distribution | DO |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
SCCP_DPC    relid = 2520  DBSTATIC   DBACC_HASH  DBDISK    DO      DDBM
     dpc          DMDPC         (ulong: 24)     <--- key
     gsm          DMMODULE      (ushort: 8)     <--- key
     ssn01        DMUNS8        (ushort: 8)
     ssn02        DMUNS8        (ushort: 8)
     ssn03        DMUNS8        (ushort: 8)
     ssn04        DMUNS8        (ushort: 8)
     ssn05        DMUNS8        (ushort: 8)
     ssn06        DMUNS8        (ushort: 8)
     ssn07        DMUNS8        (ushort: 8)
     ssn08        DMUNS8        (ushort: 8)
     ssn09        DMUNS8        (ushort: 8)
     ssn10        DMUNS8        (ushort: 8)
     tran_gp      DMUNS6        (ushort: 6)     <--- key
     digit1       DMUNS4HEX     (ushort: 4)     <--- key
     digit2       DMUNS4HEX     (ushort: 4)     <--- key
     digit3       DMUNS4HEX     (ushort: 4)     <--- key
     digit4       DMUNS4HEX     (ushort: 4)     <--- key
     digit5       DMUNS4HEX     (ushort: 4)     <--- key
     digit6       DMUNS4HEX     (ushort: 4)     <--- key
     digit7       DMUNS4HEX     (ushort: 4)     <--- key
     digit8       DMUNS4HEX     (ushort: 4)     <--- key
         User, Compacted and Stored Tuple Layout   SCCP_DPC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                      dpc                      |      gsm      |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |     ssn01     |     ssn02     |     ssn03     |     ssn04     |
    |---------------+---------------+---------------+---------------|
```

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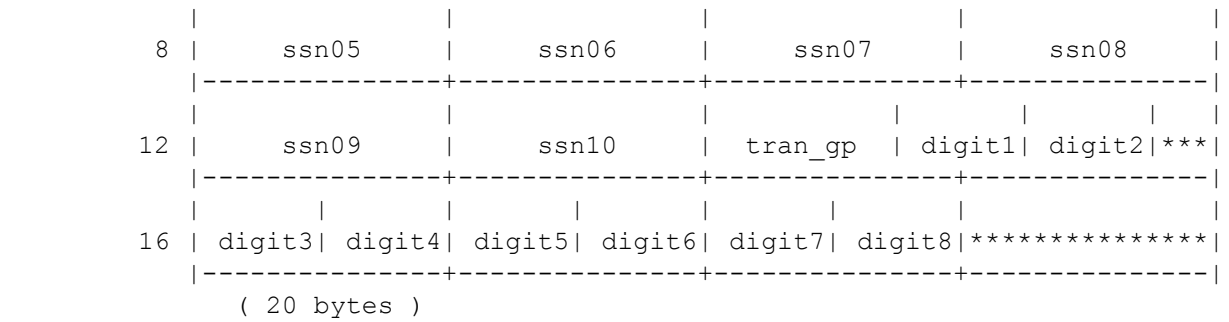


## 4. Population Rules for RLsccp_dpc

**Relation Description**
SCCP DPC Accounting Data.

This relation will be used by the AM traffic measurement group to populate the AM hash accounting table. This table will be used to hold the counts of the SCCP accounting feature. The relation will contain a tuple for every GTT digit string/ DPC/ and GSM combination used in the SCCP accounting feature.

**Attribute: digit[*]**

**Fullname:** Digit String

**Attribute Description** This attribute contains the digits used in the definition of the GTT Digit String used in SCCP Accounting

**Attribute: dpc**

**Fullname:** Destination Point Code

**Attribute Description** This attribute contain the Destination Point Code used by the SCCP Accounting feature for this GTT Digit String.

**Attribute: gsm**

**Fullname:** Global Switching Module Number

**Attribute Description** This attribute contain the GSM Number performing ACCP Accounting.

**Attribute: tran_gp**

**Fullname:** Translation Group

**Attribute Description** The attribute contains the translation group defining the number of Fixed, Primary and Secondary digits used in the GTT Digit String.

**Attribute: ssn[*]**

**Fullname:** Subsystem Number

**Attribute Description** These 10 attributes will contain the subsystem numbers being accounted for on the GSM/GTT Digit String/DPC combination defined in this tuples. The number 1 will be used to indicate "no SSN defined" or default.

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# SCCP_OPC

## 1. Description

This relation will be used by the AM Traffic Measurements group to populate an AM Accounting Hash table for the SCCP OPC Accounting feature. This relation will contain a tuple for every GT Digit String/OPC/Translation Group and GSM performing SCCP Accounting.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 5000 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBDISK |
| distribution | DO |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
SCCP_OPC    relid = 2521  DBSTATIC   DBACC_HASH  DBDISK    DO      DDBM
     opc          DMDPC         (ulong: 24)      <--- key
     gsm          DMMODULE      (ushort: 8)      <--- key
     ssn01        DMUNS8        (ushort: 8)
     ssn02        DMUNS8        (ushort: 8)
     ssn03        DMUNS8        (ushort: 8)
     ssn04        DMUNS8        (ushort: 8)
     ssn05        DMUNS8        (ushort: 8)
     ssn06        DMUNS8        (ushort: 8)
     ssn07        DMUNS8        (ushort: 8)
     ssn08        DMUNS8        (ushort: 8)
     ssn09        DMUNS8        (ushort: 8)
     ssn10        DMUNS8        (ushort: 8)
     tran_gp      DMUNS6        (ushort: 6)      <--- key
     digit1       DMUNS4HEX     (ushort: 4)      <--- key
     digit2       DMUNS4HEX     (ushort: 4)      <--- key
     digit3       DMUNS4HEX     (ushort: 4)      <--- key
     digit4       DMUNS4HEX     (ushort: 4)      <--- key
     digit5       DMUNS4HEX     (ushort: 4)      <--- key
     digit6       DMUNS4HEX     (ushort: 4)      <--- key
     digit7       DMUNS4HEX     (ushort: 4)      <--- key
     digit8       DMUNS4HEX     (ushort: 4)      <--- key
         User, Compacted and Stored Tuple Layout   SCCP_OPC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                      opc                      |      gsm      |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |     ssn01     |     ssn02     |     ssn03     |     ssn04     |
    |---------------+---------------+---------------+---------------|
```

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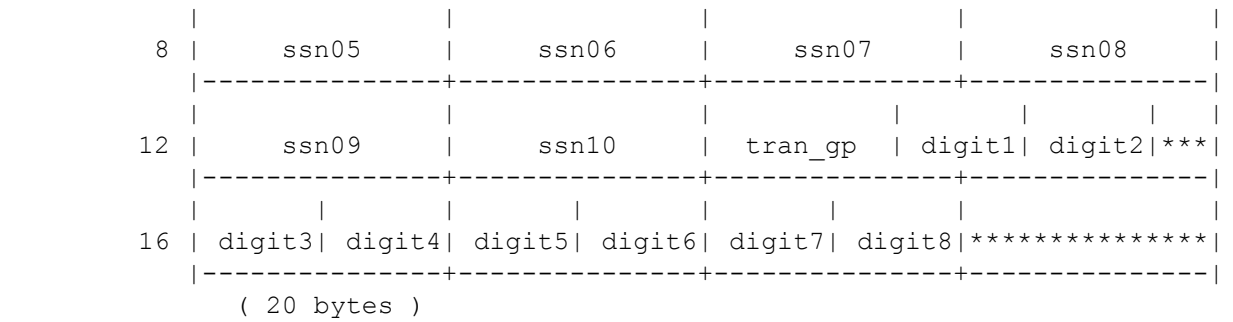


## 4. Population Rules for RLsccp_opc

**Relation Description**
SCCP OPC Accounting Data.

This relation will be used by the AM Traffic Measurement Group to populate the AM Hash Accounting table. This table will be used to hold the counts of the SCCP Accounting Feature. The relation will contain a tuple for every GTT Digit String/ OPC/ and GSM combination used in the SCCP Accounting Feature.

**Attribute: digit[*]**

**Fullname:** GTT Digit String

**Attribute Description** The attributes contain the primary and secondary digits used in the GTT Digit String.

**Attribute: gsm**

**Fullname:** Global Switching Module

**Attribute Description** The attribute will contain the GSM performing SCCP Accounting.

**Attribute: opc**

**Fullname:** Origination Point Code

**Attribute Description** The Origination Point Code being accounted for using SCCP OPC Accounting

**Attribute: tran_gp**

**Fullname:** Translation Group

**Attribute Description** The attribute contains the translation group defining the number of fixed, primary and secondary digits used by the GTT String.

**Attribute: ssn[*]**

**Fullname:** Subsystem Number

**Attribute Description** These attributes will contain the SSN values for the GTT String/ OPC and GSM defined by this tuple. There can be up to 10 valid SSNs defined.

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# SCCP_PC

## 1. Description

This relation is needed to keep track of DPCs entered on the DPC/SSN view. Use of this relation, along with its dynamic counterpart RLsccpstat, replaces usage of the attributes "con_pc" of RLdpc_dpci and "sccp_con" of RLdpc_stat in 5e13 and earlier releases, neither of which would be able to accommodate cluster and network routed DPCs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 2000 |
| expected number of tuples | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| relation type | DBSTATIC |
| distribution | FP |
| trigger function | CCsccp_pc |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
SCCP_PC     relid = 3138  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL


    sccp_pc     DMDPC        (ulong: 24)       <--- key
    sccpci      DMSCCPCI     (ushort: 11)
 (a) con_pc     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout    SCCP_PC
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                 |               |
 0 |                     sccp_pc                     |***************|
   |---------------+---------------+---------------+---------------|
   |                      | |                                      |
 4 |        sccpci        |a|**************************************|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population rules for RLsccp_pc

### Relation Description

```
        SCCP concerned DPCs relation

        The relation is needed to keep track of DPCs entered on the
        DPC/SSN view. The relation replaces the attribute con_pc of
        RLdpc_dpci relation that existed in 5e13 and earlier releases,
        which would not be able to accommodate cluster and network
        routed DPCs.
```

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**Attribute:**
sccp_pc
**Fullname:**
DPC of SCCP concern
**Attribute Description:**
Destination Point Code which is provisioned as either a primary or backup destination for some application.

**Attribute:**
sccpci
**Fullname:**
SCCP Point Code Index
**Attribute Description:**
SCCP Point Code Index, key to dynamic relation RLsccpstat.

**Attribute:**
con_pc
**Fullname:**
SCCP concerned flag
**Attribute Description:**
The attribute indicates whether the Point Code is of SCCP concern to other GSMs in the office, for applications which use SCCP conversion (such as, between C7INTL and C7NATL GSMs).

**Defines:**
"ccs/CCc7_param.h",
"db/RLsccpstat.h"

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# SCCPSCR

## 1. Description

This relation provides a screening capability on incoming SCCP messages. The relation maps Called Party Address Global Title Translation Type to Calling Party Address Global Title Translation Type and Originating Point Code.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 1416 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBNO |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
SCCPSCR     relid = 2532  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     pc          DMPT_CODE    (ulong: 24)     <--- key
     ttcd        DMUNS8       (ushort: 8)     <--- key
     ttcg        DMUNS8       (ushort: 8)     <--- key
         User, Compacted and Stored Tuple Layout    SCCPSCR
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                       pc                      |      ttcd     |
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  4 |      ttcg     |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLsccpscr

**Relation Description**
SCCP screening.

This relation provides a screening capability on incoming SCCP messages. This relation maps Called Party Address Global Title Translation Type to Calling Party Address Global Title Translation Type and Originating Point Code

**Attribute: ttcd**

**Fullname:** Called Party Address Global Title Translation Type.

**Attribute Description** This attribute specifies the Called party Address Global Title Translation Type for SCCP messages.

**Attribute: ttcg**

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**Fullname:** Calling Party Address Global Title Translation Type.

**Attribute Description** This attribute specifies the Calling Party Address Global Title Translation Type for SCCP messages.

**Attribute: pc**

**Fullname:** Point Code

**Attribute Description** This attribute provides Calling Party Address Point Code.

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# SCD_SAC

## 1. Description

Specifies whether a given service access code (SAC) should be screened for selective carrier denial (SCD).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
SCD_SAC     relid = 1246  DBSTATIC   DBACC_LIN   DBPRAM    FR      NULL
     sac         DMDIG3       (array [ 3 ] of char )  <--- key
         User, Compacted and Stored Tuple Layout    SCD_SAC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                      sac                      |***************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLscd_sac

**Relation Description:** SCD screening of SAC.

This relation is consulted to determine whether a SAC should be screened for SCD. For each SAC which requires SCD screening, a tuple will exist in this relation.

**Attribute: sac**

**Fullname:** Service Access Code

**Attribute Description** Indicates the SAC being screened.

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# SCD_SCRN

## 1. Description

Selective carrier denial screening (SCD_SCRN) relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 500 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 1024 |
| data page size | 512 |
| page level | 2 |
| ks store key option | DBNO |

## 3. Field Layout

```
SCD_SCRN    relid = 1241  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     port        DMGPORT      (struct)  <--- key, not stored, compacted
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     carr_map    DMHEX32      (ulong)
           User Tuple Layout      SCD_SCRN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============  port ============+===============|
    |                                |               |               |
  0 |             member             |***************|     module    |
    |================+===============+===============+===============|
    |                                                                |
  4 |                             carr_map                           |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     port        DMPORT       (ushort)  <--- key, not stored, compacted
     carr_map    DMHEX32      (ulong)
          Compacted Tuple Layout   SCD_SCRN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |              port              |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                                |
  4 |                             carr_map                           |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     carr_map    DMHEX32      (ulong)
           Stored Tuple Layout      SCD_SCRN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                                |
  0 |                             carr_map                           |
```

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```
|---------------+---------------+---------------+---------------|
   ( 4 bytes )
```

## 4. Population Rules for RLscd_scrn

**Relation Description:** Selective carrier denial (SCD) screening.

This relation is consulted to determine if a port should be denied access to a particular carrier. For each port which is denied access to a carrier, this relation, RLscd_scrn, contains a bit map of all carriers to which that port is denied access.

**Attribute: port**

**Fullname:** Port

**Attribute Description** The physical port. This is a structure with subattributes port.member and port.module.

**Attribute: port.member**

**Fullname:** Member

**Attribute Description** Indicates the local port name.

**Attribute: port.module**

**Fullname:** Module

**Attribute Description** Indicates the module on which the port resides.

**Attribute: carr_map**

**Fullname:** Carrier map

**Attribute Description** This bitmap indicates whether access to any particular carrier should be denied.

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# SCF_LTM

## 1. Description

Selective call forwarding feature parameters on this logical termination port.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 3 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| corcable | DBYES |

## 3. Field Layout

```
SCF_LTM     relid = 1306  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     scf_idx     DMSEQIDX     (ushort: 16)
     ltm_idx     DMLTM_IDX    (ulong: 16)  <--- key
 (a) ltm_type    DMLTM_TYPE   (enum: 1)  <--- key
 (b) gen_avail   DMBOOL       (enum: 1)
 (c) bs_rg_ind   DMBOOL       (enum: 1)
     fwd_dn      DMEDN32      (struct)
         dcnt32      DMDCNT32     (ushort: 6)
         edn32       DMEDIGSTR    (array [ 32 ] of char )
         User, Compacted and Stored Tuple Layout    SCF_LTM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            scf_idx            |            ltm_idx            |
    |---------------+---------------+---------------+---------------|
    | | | |                                                         |
  4 |a|b|c|*********************************************************|
    |===============+===========  fwd_dn ===========+===============|
    |           |                                                   |
  8 |   dcnt32  |***************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                            edn32                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                            edn32                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                            edn32                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 24 |                            edn32                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 28 |                            edn32                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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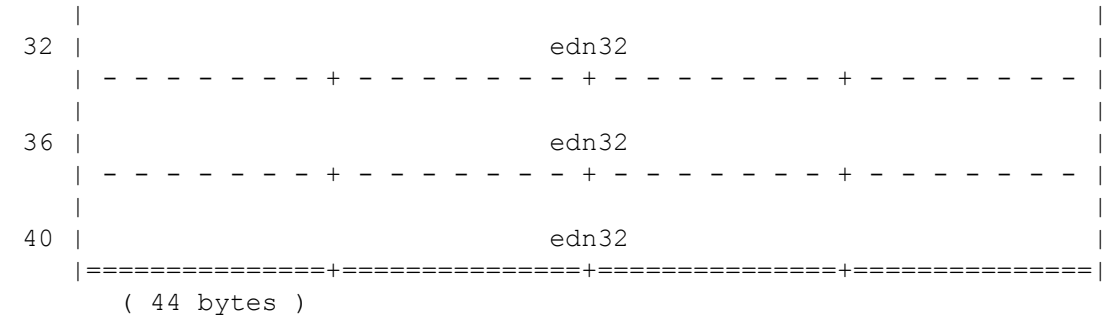


## 4. Population Rules for RLscf_ltm

**Relation Description**
Local Area Signaling Services Selective Call Forwarding.

This relation holds the index to the SCF screen list. It also contains forward-to-dn, and base station ringing (ping-ring) option.

General availability access to the LASS Selective Features is denied for the secondary only DNs and all the multi-line hunt group DNs. The 5E6 LASS selective features will not be allowed on Part IV terminals (ISDN PODS) defined in the 5E4 BRI specification. 5E6 LASS SCF feature will be offered only to the following service classes:

FC_INDVDL, FC_ISDN, FC_4WIRE_INDV, FC_PBX
For those lines which have a corresponding tuple in RLltsbport, this LSF data will only exist on the main(lead) port of 1-TN Line Time Slot Bridging lines (LTSB).

**Attribute: ltm_type**

**Fullname:** Logical Termination index type

**Attribute Description** This is the logical termination type defined same as RLfc_line or RLis_line.

**Attribute: ltm_idx**

**Fullname:** Logical termination Index

**Attribute Description** This is the logical termination index defined same as RLfc_line or RLis_line relation.

**Attribute: gen_avail**

**Fullname:** General Availability

**Attribute Description** The gen_avail indicates the reason of the creation of this tuple. If the gen_avail is DBYES, this tuple is created through the general availability which is an office parameter, Glscfac. If this tuple is created through subscription, this field should be set to DBNO.

**Attribute: bs_rg_ind**

**Fullname:** Base Station Reminder Ringing indicator

**Attribute Description** This field indicates whether a base station reminder ringing (ping ring) will be given when the call is forwarded. Set this field to DBYES for ping ring.

**Attribute: scf_idx**

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**Fullname:** Selective Call Forwarding screen list index

**Attribute Description** The scf_idx is the index to SCF screen list tuples. (LSFSCF if gen_avail = DBNO; GENSCF if gen_avail = DBYES) The SCF screen list tuples associated with this ltm_idx can be accessed with the scf_idx and a range from 0 through 10. The scf_idx is allocated/deallocated through SMSEQIDX relation.

**Attribute: fwd_dn**

**Fullname:** Forward-to-DN

**Attribute Description** This field is used to store a forward-to-dn (RTN).

**Attribute: fwd_dn.dcnt32**

**Fullname:** Number of digits in the forward-to-dn

**Attribute Description** The dcnt32 is the number of digits in the forward-to-dn.

**Attribute: fwd_dn.edn32 Fullname:** Extended Directory Number

**Attribute Description** This field contains a DN in a BCD representation.

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# SCM_NSCM

## 1. Description

This relation contains information about the member that has the Series Completion (SC) feature active. It also contains information about the member that it series completes to, that is, the next member in the series completion linked list.

This is an example diagram of the SC linked list information:

```
   SC      SC
A------>B------>C
```

For this SC linked list, there will be 2 tuples in RLscm_nscm with the attribute values as indicated in the following diagram. Each tuple indicates one link in this SC linked list.

```
l* attributes    n* attributes
--------------  ------------------
A's values       B's values
B's values       C's values
The first tuple indicates that A Series Completes to B
The second tuple indicates that B series completes to C
```

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 96 |
| density | 71 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
SCM_NSCM    relid = 1332  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     ltm_idx     DMLTM_IDX    (ulong: 16)     <--- key
     nltm_idx    DMLTM_IDX    (ulong: 16)
     nlead_module  DMMODULE     (ushort: 8)
 (a) ndn_dntr    DMDIGCNT     (uchar: 4)
 (b) ltm_type    DMLTM_TYPE   (enum: 1)     <--- key
 (c) nltm_type   DMLTM_TYPE   (enum: 1)
 (d) ntrc        DMBOOL       (enum: 1)
     ndn         DMLOCDN      (struct)     <--- compacted
         noc         DMNOC        (ushort: 14)
         digits      DMLOCDIG     (array [ 4 ] of char )
            User Tuple Layout      SCM_NSCM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |            ltm_idx             |            nltm_idx           |
    |---------------+---------------+---------------+---------------|
    |                |       | | | |                               |
  4 |  nlead_module  |   a   |b|c|d|*******************************|
    |===============+============= ndn =============+===============|
    |   |                            |                               |
  8 |***|            noc             |             digits            |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
```

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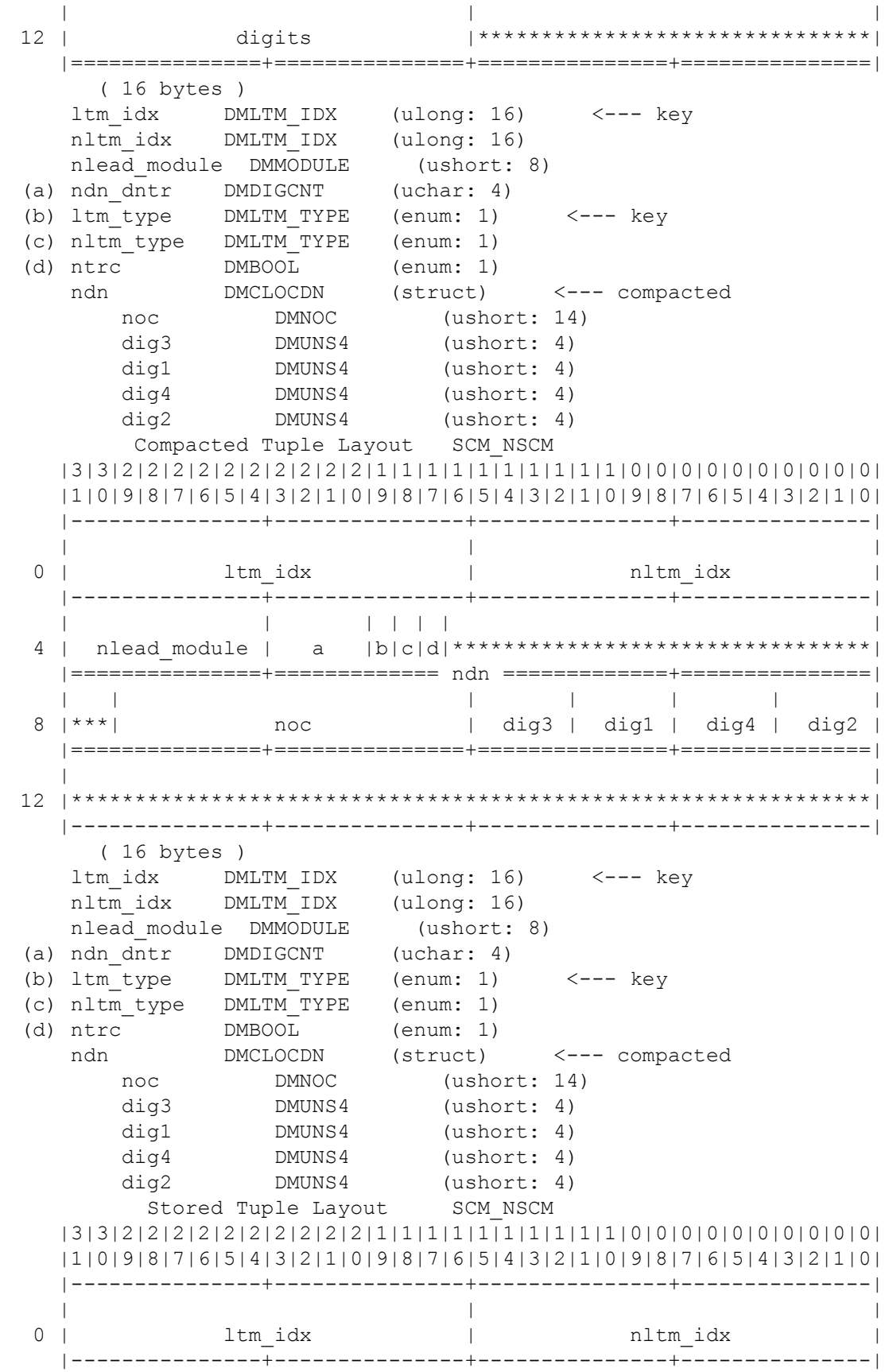


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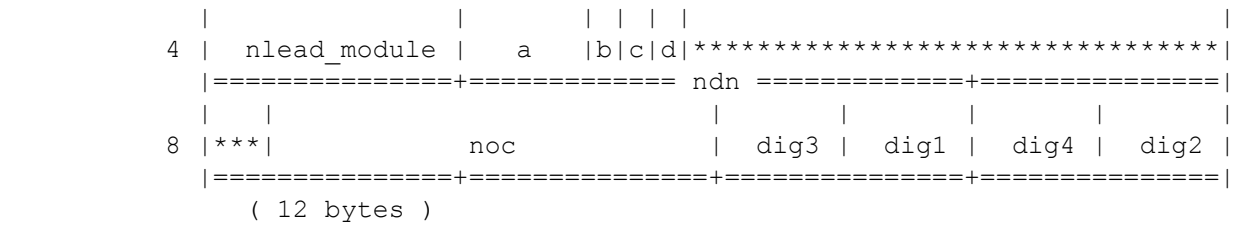


## 4. Population Rules for RLscm_nscm

**Relation Description**
Series Completion (SC) Member (SCM) and the Next Series Completion Member (NSCM) in the series completion linked list.

Information regarding one member in a series completion linked list. This relation contains information on the member that has the series completion feature active, and the member that it series completes to, that is, the next member in the series completion linked list.

**Attribute: ltm_idx**

**Fullname:** Logical termination index of a member of a series completion linked list

**Attribute Description** The logical termination index of a member of a series completion linked list. This attribute, along with the ltm_type attribute uniquely identifies a member of a series completion linked list. This member series completes to the series completion member indicated by the nltm_idx, nltm_type, nlead_module and ndn attributes.

**Attribute: ltm_type**

**Fullname:** Logical termination type of a member of a series completion linked list

**Attribute Description** The logical termination type of a member of a series completion linked list. This attribute along with the ltm_idx uniquely identifies a member of a series completion linked list. This member series completes to the series completion member indicated by the nltm_idx, nltm_type, nlead_module and ndn attributes.

**Attribute: nltm_idx**

**Fullname:** Logical termination index of the next member in a series completion linked list

**Attribute Description** If nonzero, this attribute along with the nltm_type and the nlead_module uniquely identifies the member of a series completion linked list that the ltm_idx and ltm_type attributes series complete to. If an LTSB port, or a member of a multi-line hunt group is series completed to, then nltm_idx is set to zero to indicate to call processing that the DN stored in the RLscm_nscm.ndn attribute should be analyzed, hunted if necessary, and the call routed. If nltm_idx is greater than zero, then call processing will route the call directly, and not analyze the DN stored in the ndn attribute.

**Attribute: nltm_type**

**Fullname:** Logical termination type of the next member in a series completion linked list

**Attribute Description** This attribute, along with the nltm_idx (if nonzero) and nlead_module uniquely identifies the next member of a series completion linked list.

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**Attribute: nlead_module**

**Fullname:** Lead module of the next member in a series completion linked list

**Attribute Description** This attribute, along with the nltm_idx (if non zero), nltm_type and ndn uniquely identifies the next member of a series completion linked list.

**Attribute: ntrc**

**Fullname:** Nuisance call trace activation bit for next member of a series completion linked list

**Attribute Description** Indicates whether or not the nuisance call trace feature is active on the next member of a series completion group determined by the nltm_idx and nltm_type attributes.

**Attribute: ndn**

**Fullname:** Local number of the next member of a series completion linked list

**Attribute Description** Noc and digits making up a directory local number which correspond to the nltm_idx (if non zero), nltm_type and nlead_module attributes.

**Attribute: ndn.noc**

**Fullname:** Normalized office code(NOC) of the directory number

**Attribute Description** The NOC of the directory number corresponding to the next member in the series completion linked list.

**Attribute: ndn.digits**

**Fullname:** last 4 digits of the directory number

**Attribute Description** Last 4 digits of the DN corresponding to the next member in the series completion linked list. The directory number must be part of the office dialing plan.

**Attribute: ndn_dntr**

**Fullname:** unused attribute

**Attribute Description** unused attribute - defaulted to zero

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# SCMSGPRI

## 1. Description

This relation defines the priority for the following SCCP messages:

```
     CR         Connection Request
     CC         Connection Confirm
     CREF       Connection Refusal
     DT1        Data Form 1
     ERR        Error
     IT         Inactivity Test
     RLC        Release Complete
     RLSD       Released
     SSA        Subsystem Allowed
     SSP        Subsystem Prohibited
     SST        Subsystem Test
     SNR        Subsystem Normal Routing
     SBR        Subsystem Backup Routing
     UDT        Unit Data
     UDTS       Unit Data Service
     XUDT       Extended Unit Data
     XUDTS      Extended Unit Data Service
```

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 1 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution type | FP |
| relation type | DBSTATIC |
| trigger function | CCscmsgpri |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
SCMSGPRI    relid = 2522  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     cr          DMUNS2       (ushort: 2)
     cc          DMUNS2       (ushort: 2)
 (a) cref        DMUNS2       (ushort: 2)
     dt1         DMUNS2       (ushort: 2)
     err         DMUNS2       (ushort: 2)
     it          DMUNS2       (ushort: 2)
     rlc         DMUNS2       (ushort: 2)
 (b) rlsd        DMUNS2       (ushort: 2)
     ssa         DMUNS2       (ushort: 2)
     ssp         DMUNS2       (ushort: 2)
     sst         DMUNS2       (ushort: 2)
     snr         DMUNS2       (ushort: 2)
     sbr         DMUNS2       (ushort: 2)
     udt         DMUNS2       (ushort: 2)
 (c) udts        DMUNS2       (ushort: 2)
 (d) xudt        DMUNS2       (ushort: 2)
 (e) xudts       DMUNS2       (ushort: 2)
```

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```
(f) dummy_key   DMUNS1       (ushort: 1)     <--- key
        User, Compacted and Stored Tuple Layout   SCMSGPRI
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
 0 | cr| cc| a |dt1|err| it|rlc| b |ssa|ssp|sst|snr|sbr|udt| c | d |
   |---------------+---------------+---------------+---------------|
   |   | |                                                         |
 4 | e |f|*********************************************************|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population Rules for RLscmsgpri

**Relation Description**
SCCP message priority table.

This relation defines the priority for SCCP messages.

**Attribute: dummy_key**

**Fullname:** Dummy Key

**Attribute Description** This attribute serves as the key. It should always be 0.

**Attribute: cr**

**Fullname:** Priority for CR Message

**Attribute Description** This attribute defines the priority assigned for CR message. 0 is lowest priority and 3 is the highest priority.

**Attribute: cc**

**Fullname:** Priority for CC Message

**Attribute Description** This attribute defines the priority assigned for CC message. 0 is lowest priority and 3 is the highest priority.

**Attribute: cref**

**Fullname:** Priority for CREF Message

**Attribute Description** This attribute defines the priority assigned for CREF message. 0 is lowest priority and 3 is the highest priority.

**Attribute: dt1**

**Fullname:** Priority for DT1 Message

**Attribute Description** This attribute defines the priority assigned for DT1 message. 0 is lowest priority and 3 is the highest priority.

**Attribute: err**

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**Fullname:** Priority for ERR Message

**Attribute Description** This attribute defines the priority assigned for ERR message. 0 is lowest priority and 3 is the highest priority.

**Attribute: it**

**Fullname:** Priority for IT Message

**Attribute Description** This attribute defines the priority assigned for IT message. 0 is lowest priority and 3 is the highest priority.

**Attribute: rlc**

**Fullname:** Priority for RLC Message

**Attribute Description** This attribute defines the priority assigned for RLC message. 0 is lowest priority and 3 is the highest priority.

**Attribute: rlsd**

**Fullname:** Priority for RLSD Message

**Attribute Description** This attribute defines the priority assigned for RLSD message. 0 is lowest priority and 3 is the highest priority.

**Attribute: ssa**

**Fullname:** Priority for SSA Message

**Attribute Description** This attribute defines the priority assigned for SSA message. 0 is lowest priority and 3 is the highest priority.

**Attribute: ssp**

**Fullname:** Priority for SSP Message

**Attribute Description** This attribute defines the priority assigned for SSP message. 0 is lowest priority and 3 is the highest priority.

**Attribute: sst**

**Fullname:** Priority for SST Message

**Attribute Description** This attribute defines the priority assigned for SST message. 0 is lowest priority and 3 is the highest priority.

**Attribute: snr**

**Fullname:** Priority for SNR Message

**Attribute Description** This attribute defines the priority assigned for SNR message. 0 is lowest priority and 3 is the highest priority.

**Attribute: sbr**

**Fullname:** Priority for SBR Message

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**Attribute Description** This attribute defines the priority assigned for SBR message. 0 is lowest priority and 3 is the highest priority.

**Attribute: udt**

**Fullname:** Priority for UDT Message

**Attribute Description** This attribute defines the priority assigned for UDT message 0 is lowest priority and 3 is the highest priority.

**Attribute: udts**

**Fullname:** Priority for UDTS Message

**Attribute Description** This attribute defines the priority assigned for UDTS message 0 is lowest priority and 3 is the highest priority.

**Attribute: xudt**

**Fullname:** Priority for XUDT Message

**Attribute Description** This attribute defines the priority assigned for XUDT message. 0 is lowest priority and 3 is the highest priority.

**Attribute: xudts**

**Fullname:** Priority for XUDTS Message

**Attribute Description** This attribute defines the priority assigned for XUDTS message 0 is lowest priority and 3 is the highest priority.

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# SCORE

## 1. Description

This relation provides a composite description of the office network and timing complex (ONTC) subunits for example, the NCLK, the time-multiplexed switch (TMS), the message interface (MI), and the link interface (LI). The LI exists for communication module, model 1 (CM1)-vintage ONTC only. There are only two tuples in this relation, one for each ONTC system side.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2 |
| expected tuples in relation | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | SWMTC |
| relation type | DBSTATIC |
| density | 100 |
| trigger function | SMcoretrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
SCORE       relid = 238   DBSTATIC   DBACC_CIND  DBPRAM    LP      SWMTC
 (a) nc_type     DMSMNCTYPE    (enum: 3)
 (b) eqstat      DMEQSTAT      (enum: 3)
 (c) tmstype     DMTMSTYPE     (enum: 2)
 (d) iia_normal  DMSTATUS      (enum: 2)
 (e) osc_type    DMSMOSCTYP    (enum: 2)
 (f) side        DMSIDE        (enum: 1)     <--- key
 (g) sync_type   DMSMSYNC      (enum: 1)
     mi_cli      DMHEX32       (ulong)
     li_cli      DMHEX32       (ulong)
     nc_cli      DMHEX32       (ulong)
     tms_cli     DMHEX32       (ulong)
         User, Compacted and Stored Tuple Layout  SCORE
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |     |     |   |   |   | | |                                   |
  0 |  a  |  b  | c | d | e |f|g|***********************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            mi_cli                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                            li_cli                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                            nc_cli                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                           tms_cli                             |
```

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```
|---------------+---------------+---------------+---------------|
   ( 20 bytes )
```

## 4. Population Rules for RLscore

**Relation Description**
Network clock (NCLK) units.

This relation provides a composite description of the office network and timing complex (ONTC) subunits, for example, the NCLK, the time-multiplexed switch (TMS), the message interface (MI), and the link interface (LI). The LI exists for communication module, model 1 (CM1)-vintage ONTC only. There are only two tuples in this relation, one for each ONTC system side.

**Attribute: side**

**Fullname:** Side

**Attribute Description** This attribute determines which ONTC a tuple describes. This attribute is used as the key to this relation.

The domain of this attribute is BFSIDE, or one bit. The enumeration (DMSIDE) values that can be assumed by this relation are SM5SIDE0 if the tuple describes the ONTC on system side 0, or SM5SIDE1 if the tuple describes the ONTC on system side 1.

This attribute should be populated to indicate the appropriate system side described by a tuple.

**Attribute: nc_type**

**Fullname:** Network clock type

**Attribute Description** This attribute specifies the type of NCLK with which the office is equipped.

The domain of this attribute is BFSMNCTYPE, or a bit field that three bits wide. The enumeration (DMSMNCTYPE) values that this attribute can assume for a NCLK1 equipped office are:

SM5DS1 - - Digital signal level 1 (DS1) 24-channel clock

SM5STDALNE - - Stand-alone clock, that is, it does not use external references

SM530CHAN - - DS1 30-channel network clock

If the office is equipped with a network clock 2 (NCLK2), the nc_type is set to one of the following:

SM24NC2 - - DS1 24-channel clock

SM30NC2 - - DS1 30-channel clock

SMSANC2 - - Stand-alone version of NCLK2

This attribute should be populated to appropriately indicate the type of the NCLK in the ONTC side described by each tuple in this relation.

**Attribute: tmstype**

**Fullname:** Time-multiplexed switch (TMS) type

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**Attribute Description** The tmstype specifies where the TMS on a system side is a single-fabric, dual-fabric or double-dual-fabric TMS.

For a CM1 office, this attribute should always be populated with SMDUALFAB since CM1 offices are always equipped with dual fabric TMS. For a communications module, model 2 (CM2) office, this variable should be populated to indicate the appropriate TMS type.

For a communications module, model 2 compact (CM2C) office, this variable should always be populated with SMSNGLFAB since CM2C offices are only single-fabric TMS.

**Attribute: iia_normal**

**Fullname:** Intrupts normal state

**Attribute Description** This attribute describes the normal state of interrupts for the ONTC.

The domain of this attribute is BFSTATUS, or one bit. The enumeration (DMSTATUS) value that this attribute can assume is SMALLOW if the interrupts are to be allowed if the ONTC is operating normally, or SMINHIBIT if the interrupts are to be inhibited even if the ONTC is operating normally.

This attribute should be populated with SMALLOW.

**Attribute: eqstat**

**Fullname:** Equipage status

**Attribute Description** This attribute describes the equipage state of the ONTC system side described by a tuple.

The domain of this attribute is BFEQSTAT, or three bits. This attribute can only assume the value SMOPER which indicates that the ONTC system side described by this tuple is equipped.

This attribute should be populated with SMOPER.

**Attribute: mi_cli**

**Fullname:** Message interface unit

**Attribute Description** This attribute indicates the hardware version of the MI unit.

```
0x00    DGVNULL                 [J5D006AA, L1 and L2]
0x400   DGAPRCM2        5e10    SN516B C/D with APR (Auto Power
                                Recovery).  CLI for CM2(C) only.
                                APR only available in CM2(C).
                                Backwards compatible with SN516.
                                [J5D020A-1, L46B, L50, L51]
                                [J5D020A-2, L1H]
```

***NOTE:*** When an office has APR (Auto Power Recovery), all CM2(C) unit/circuit CLI's "have" to have the APR bit(s) set. This includes the MI, NC2, and TMS cli's, and all PC cli's (see RLspc).

**Attribute: li_cli**

**Fullname:** Link interface unit

**Attribute Description** This attribute indicates the hardware version of the LI unit and is applicable

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only to an ONTC of CM1 vintage and should be set to 0x00. [J5D006AB-1, L1 or L2 or L3 or L4 or L5 or L6]

**Attribute: nc_cli**

**Fullname:** Network clock unit

**Attribute Description** This attribute indicates the hardware version of the NCLK unit.

```
Note1:  The CLI for the following unit/circuit must be derived by
        OR'ing the CLIs corresponding to the hardware/capability
        equipped in the switch.
EXAMPLE:
BOARD
         CLI
         MC5D215A2
         0x80 TN1285B
         0x50 TN1274B
         0x00 SN516B
         0x102
         nc_cli     =  0x1D2

Note2:  The TLP (Trouble Location Procedure) board list is
        only required to print the minimum acceptable issue
        of a given circuit pack. Therefore, it is acceptable,
        for example, to print TN1286 on the TLP when there is
        a TN1286B actually equipped.
        The CEPT feature actually applies to Export (non-US)
        ONLY. Therefore, for Domestic (US) applications, the
        Change Level Indicators (CLI's) associated with CEPT
        compliant circuit packs should not be used, even if a
        CEPT compliant pack is actually equipped. Therefore,
        a CEPT compliant circuit pack should use the same CLI
        as a non-compliant circuit pack, in US only. Note that
        the factory is no longer manufacturing TN1286's
        (non-compliant); they are only making TN1286B's (CEPT
        compliant).
EXAMPLE:
```

A US office has a TN1286, which needs to be replaced. When the replacement (spare) is ordered from the factory, the office will receive a TN1286B (using the same board code [TN1286] with a suffix denotes backwards compatibility). The CLI for the TN1286 is 0x00, which the office should currently have in their ODD. The CLI for a TN1286B is 0x40 WHEN USED IN A CEPT COMPLIANT OFFICE (Export ONLY). US offices don't comply with CEPT; therefore, when the TN1286B is installed in the office, the CLI should remain 0x00, and NOT be updated to 0x40.

```
utype = SMCMCU (CM2), type = PCNC2A (NC2)
value    symbol        SW release    description
                                     CONTROLLER BOARDS
0x00     DGMEDCNTRL    5e2.2         TN1276 Medium Stability
                                     Domestic/Export Applications
                                     (MC5D215A1)
                                     [J5D020A-1,L3]
0x80     DGMDACNTRL    5ee2          TN1276 Medium Stability
                                     Auto-Sync capability
                                     Domestic/Export Applications
```

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| | | | |
|---|---|---|---|
| | | | (MC5D215A2)<br>[J5D020A-1,L3B,L5B,L7B,L23B,L24B]<br>[J5D020A-2,L9,L10] |
| 0x88 | DGHIACNTRL | 5ee2 | TN1276 High Stability<br>Auto-Sync capability<br>Domestic/Export Applications<br>(MC5D222A2)<br>[J5D020A-1,L4B,L6B,L8B]<br>[J5D020A-2,L7,L8] |
| 0x288 | DG64HACNTRL | 5ee6.2 | TN1851 High Stability,<br>Auto-Sync, and 64Kb/s Ref.<br>Export Applications<br>[J5D020A-1,L47,L48]<br>[J5D020A-2,L43,L44] |
| | | | OSCILLATOR BOARDS |
| 0x00 | DGDMOSC | 5e2.2 | TN1286 Medium Stability<br>Domestic Applications<br>[J5D020A-1,L3] |
| 0x08 | DGDHOSC | 5e2.2 | TN1284 High Stability<br>Domestic Applications<br>[J5D020A-1,L4] |
| 0x10 | DGEMOSC | 5ee2 | TN1285 Medium Stability<br>Export Applications<br>[J5D020A-1,L7] |
| 0x18 | DGEHOSC | 5ee2 | TN1283 High Stability<br>Export Applications<br>[J5D020A-1,L6] |
| 0x40 | DGCDMOSC | 5ee2 | TN1286B Medium Stability<br>CEPT compliant<br>Domestic Applications<br>[J5D020A-1,L3B,L23B]<br>[J5D020A-2,L10] |
| 0x48 | DGCDHOSC | 5ee2 | TN1284B High Stability<br>CEPT compliant<br>Domestic/Export Applications<br>[J5D020A-1,L4B]<br>[J5D020A-2,L8] |
| 0x50 | DGCEMOSC | 5ee2 | TN1285B Medium Stability<br>CEPT compliant<br>Export Applications<br>[J5D020A-1,L5B,L7B,L24B]<br>[J5D020A-2,L9] |
| 0x58 | DGCEHOSC | 5ee2 | TN1283B High Stability<br>CEPT compliant<br>Export Applications<br>[J5D020A-1,L6B,L8B]<br>[J5D020A-2,L7] |
| | | | SYNC BOARDS |
| 0x00 | DG24SYNC | 5e2.2 | TN1274B<br>24 Channel Reference<br>Domestic/Export Applications<br>[J5D020A-1,L3B,L4B,L5B,L6B]<br>[J5D020A-2,L5] |
| 0x04 | DG30SYNC | 5ee2 | TN1275(B) |

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```
                                        30 Channel Reference
                                        Export Applications
                                        [J5D020A-1,L7B,L8B]
                                        [J5D020A-2,L6]
0x200    DG64SYNC      5ee6.2           TN1850
                                        64Kb/s Reference
                                        Export Applications
                                        [J5D020A-1,L47,L48]
                                        [J5D020A-2,L45]
                                        CONTROL/DISPLAY
0x102    DGVAPRRCK     5ee2             SN516B - Auto Power
                                        Recovery capability.
                                        [J5D020A-1,L25X]
                                        [J5D020A-2,L1G]
utype = SMCMU (CM2C), type = PCNC2A (NC2)
                                        CONTROLLER BOARDS
0x80     DGMDACNTRL    5ee2             TN1276 Medium Stability
                                        Auto-Sync capability
                                        Domestic/Export Applications
                                        (MC5D215A2)
                                        [J5D020AJ-5,L15A]
0x88     DGHIACNTRL    5ee2             TN1276 High Stability
                                        Auto-Sync capability
                                        Domestic/Export Applications
                                        (MC5D222A2)
                                        [J5D020AJ-5,L16A]
0x288    DG64HACNTRL   5ee6.2           TN1851 High Stability,
                                        Auto-Sync, and 64Kb/s Ref.
                                        Export Applications
                                        [J5D020AJ-5,L24]
                                        OSCILLATOR BOARDS
0x40     DGCDMOSC      5ee2             TN1286B Medium Stability
                                        CEPT compliant
                                        Domestic Applications
                                        [J5D020AJ-5,L9]
0x48     DGCDHOSC      5ee2             TN1284B High Stability
                                        CEPT compliant
                                        Domestic/Export Applications
                                        [J5D020AJ-5,L11]
0x50     DGCEMOSC      5ee2             TN1285B Medium Stability
                                        CEPT compliant
                                        Export Applications
                                        [J5D020AJ-5,L10]
0x58     DGCEHOSC      5ee2             TN1283B High Stability
                                        CEPT compliant
                                        Export Applications
                                        [J5D020AJ-5,L12]
                                        SYNC BOARDS
0x00     DG24SYNC      5e2.2            TN1274B
                                        24 Channel Reference
                                        Domestic/Export Applications
                                        [J5D020AJ-5,L13]
0x04     DG30SYNC      5ee2             TN1275B
                                        30 Channel Reference
```

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```
                                        Export Applications
                                        [J5D020AJ-5,L14]
0x200    DG64SYNC      5ee6.2           TN1850
                                        64Kb/s Reference
                                        Export Applications
                                        [J5D020AJ,L23]
                                        CONTROL/DISPLAY
0x102    DGVAPRRCK     5ee2             SN516B - Auto Power
                                        Recovery capability.
                                        [J5D020AJ,L2]
utype = SMMICU2 (CM1), type = PCNC2 (NC2)
0x20     DGVMICU2      5e2.2            CM1 (MICU2), model 2 backplane.
                                        [J5D006C-1,L13]
                                        CONTROLLER BOARDS
0x00     DGMEDCNTRL    5e2.2            TN1276 Medium Stability
                                        Domestic/Export Applications
                                        (MC5D215A1)
                                        [J5D006C-1,L17A,L19A]
0x80     DGMDACNTRL    5ee1             TN1276 Medium Stability
                                        Auto-Sync capability
                                        Domestic/Export Applications
                                        (MC5D215A2)
                                        [J5D006C-1,L17B,L19B]
0x88     DGHIACNTRL    5ee1             TN1276 High Stability
                                        Auto-Sync capability
                                        Domestic/Export Applications
                                        (MC5D222A2)
                                        [J5D006C-1,L18B,L20B]
                                        OSCILLATOR BOARDS
0x00     DGDMOSC       5e2.2            TN1286 Medium Stability
                                        Domestic Applications
                                        [J5D006C-1,L15]
0x08     DGDHOSC       5e2.2            TN1284 High Stability
                                        Domestic Applications
                                        [J5D006C-1,L16]
0x10     DGEMOSC       5ee1             TN1285 Medium Stability
                                        Export Applications
                                        [J5D006C-1,L17,L19]
0x18     DGEHOSC       5ee1             TN1283 High Stability
                                        Export Applications
                                        [J5D006C-1,L18,L20]
0x40     DGCDMOSC      5ee2             TN1286B Medium Stability
                                        CEPT compliant
                                        Domestic Applications
                                        [J5D006C-1,L?]
0x48     DGCDHOSC      5ee2             TN1284B High Stability
                                        CEPT compliant
                                        Domestic/Export Applications
                                        [J5D006C-1,L?]
0x50     DGCEMOSC      5ee1             TN1285B Medium Stability
                                        CEPT compliant
                                        Export Applications
                                        [J5D006C-1,L17B,L19B]
0x58     DGCEHOSC      5ee1             TN1283B High Stability
```

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```
                                        CEPT compliant
                                        Export Applications
                                        [J5D006C-1,L18B,L20B]
                                        SYNC BOARDS
0x00     DG24SYNC      5e2.2            TN1274B
                                        24 Channel Reference
                                        Domestic/Export Applications
                                        [J5D006C-1,L17B,L18B]
0x04     DG30SYNC      5ee1             TN1275(B)
                                        30 Channel Reference
                                        Export Applications
                                        [J5D006C-1,L19B,L20B]
utype = SMMICU2 (CM1), type = PCNC (NC1)
0x20     DGVMICU2      5e2.2            CM1 (MICU2), model 2
                                        backplane.d
                                        [J5D006C-1,L13 w/o L14, LAH]
0x1      DGVSANC       5e2.2            TN249, CM1 with stand-alone
                                        clock.
                                        [J5D006C-1,L14 or LAH]
utype = SMMICU (CM1), type = PCNC (NC1)
0x0      DGVNULL       5e2.2            CM1 (MICU1) with Domestic NC1.
                                        [J5D006C-1,L3 or L7]
0x1      DGVSANC       5e2.2            TN249, CM1 with stand-alone
                                        clock.
```

**Attribute: tms_cli**

**Fullname:** Time multiplexed switch

**Attribute Description** This attribute indicates the hardware version of the TMS unit.

For SMTMSU2/SMTMSU3 (CM2) unit types, enter the hexadecimal union (OR) of the bit values corresponding to the TMS hardware options. Enter 0x00 if no options apply.

```
Unit     Circuit
type     type
----     --------
SMTMSU2  PCTMSW2
(CM2)
                bit
                value          TMS Hardware Option Description
                -----          -------------------------------
                0x02           TMS is equipped with KBN4
                (DGVKBN4)      (vice KBN1) fabric boards
                [5e2.2]        [J5D020A-1,L27]
                [J5D020b-1,L29 or L32]
    SMTMSU3     PCTMSW2
(CM2)
                bit
                value          TMS Hardware Option Description
                -----          -------------------------------
                0x02           TMS is equipped with KBN5
                (DGVKBN4)      (same CLI as KBN4).
                [J5D020AG-1, L1 or L2]
SMTMSU2/
```

```
SMTMSU3     PCTMSW2
(CM2)
                bit
                value          TMS Hardware Option Description
                -----          ----------------------------
                0x04           TMS is equipped with UN321
                (DGVSF_EBUS)   (vice UN183) board
                [5e2.2]        [J5D020A-1,L22]
                0x08           TMS is equipped with UN503 and
                (DGVRX_RPTR)   UN504 boards
                [5e2.2]        [J5D020B-1,L35 and L36]
                0x100          TMS FW version for
                (DGVTMSFW)     SM-2000 TN884C
                [5e9.2]
                0x400          SN516B C/D with APR (Auto
                (DGAPRCM2)     Power Recovery).  APR only
                [5E10]         available in CM2.  Backwards
                compatible with SN516.
                [J5D020A-1, L46B, L50, L51]
                [J5D020A-2, L1H]
```

For the SMTMS (CM1) unit type, enter the hexadecimal union (OR) of the bit values corresponding to the TMS hardware options.

```
Unit        Circuit
type        type
----        ------
SMTMS       PCTMSW
(CM1)
                bit
                value          TMS Hardware Option Description
                -----          ------------------------------
                0x00           TMS model 1 [J5D001B or J5D001C]
                0x02           TMS model 1 with redesigned test
                (DGVCM1ORM)    board, TN1575 (replaces TN267)
                [5E3]          for use with TRCU ckts.
                [J5D001C-1,L12]
```

For the SMCMU (CM2C) unit type, enter the hexadecimal union (OR) of the bit values corresponding to the TMS hardware options.

```
Unit         Circuit
type         type
----         ------
SMCMU        PCTMSC
(CM2C)
                bit
                value          TMS Hardware Option Description
                -----          ------------------------------
                0x20           TMS version for CM2C equipped
            (DGVTMSC)          with the service module link
                               interface (SMLI TN1830) and
                               modifier FW on the TMS controller
                               (TN1813).  Also equipped with the
                               clock and control interface
                               (CCI TN1812).  [J5D020AJ]
                0x400          SN516B C/D with APR (Auto
                (DGAPRCM2)     Power Recovery).  APR only
```

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```
                    [5E10]          available in CM2.  Backwards
                                    compatible with SN516.
                                    [J5D020A-1, L46B, L50, L51]
                                    [J5D020A-2, L1H]
```

**Attribute: sync_type**

**Fullname:** Synchronization Type

**Attribute Description**If the office is equipped with an NCLK2, then populate this attribute. The value is:

SMHIERARCH - - Master/slave synchronization. U.S. offices will be SMHIERARCH.

SMSING_MUT - - Single-ended mutual synchronization. Some future offices outside the U.S. will be SMSING_MUT.

Default value (in an NCLK1 office) is SMHIERARCH.

**Attribute: osc_type**

**Fullname:** Oscillator type

**Attribute Description**

```
If the office is equipped with an NCLK2, populate this attribute.
The value for a U.S. office is:
SMDOM_HI        - High stability oscillator
                  stratum 2 offices (Toll)
                  5E2(2) - circuit pack TN1284
SMDOM_MED       - Medium stability oscillator
                  stratum 3 offices (Local)
                  5E2(2) - circuit pack TN1286
The value for an international office is:
SMEXP_HI        - High stability oscillator
                  gateway and toll applications
                  5E2(2) - circuit pack TN1283
                  SMEXP_MED - Medium stability oscillator
5E2(2) - circuit pack TN1285
Default value (in an NCLK1 office) is SMDOM_MED.
```

**Defines:** "db/DMclidef.h"

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# SCP_SCRN

## 1. Description

This relation provides the static data used to store the called DN/calling DN group information for the Network Element Services Signaling (NESS) special feature.

The key of this relation is group id and called DN for quick access in call processing. Each group may have up to 128 called DN associated.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 500 |
| expected tuples | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| spare | 32l |

## 3. Field Layout

```
SCP_SCRN    relid = 2147  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     called_dn   DMDIG10      (array [ 10 ] of char )     <--- key
     scp_grp_id  DMUNS8       (ushort: 8)     <--- key
     ffcf1       DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout   SCP_SCRN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                           called_dn                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                           called_dn                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |               |               |
  8 |           called_dn           |   scp_grp_id  |     ffcf1     |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |***************************************************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLscp_scrn

**Relation Description**
Service Control Point screening list.

This relation provides the static data used to store the called DN/calling DN group information for the Network Element Services Signaling special feature (NESS).
The key of this relation is Service Control Point (SCP) group id and the called DN fro quick access in call processing. Each group may have up to 128 called DN associated.

**Attribute: scp_grp_id**

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**Fullname:** Service Control Point Group ID

**Attribute Description** Group ID for Service Control Point

**Attribute: called_dn**

**Fullname:** Called Directory Number

**Attribute Description** Called DN associated with the SCP group ID.

**Attribute: ffcf1**

**Fullname:** Spare Unsigned 8-bit Field

**Attribute Description** Spare for use.

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# SCR_G

## 1. Description

Child relation for RLrt_scrning - Screening Data Tables

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10000 |
| expected tuples in relation | 300 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTORAGE |
| ks key store | DBNO |
| foldtype | DBGC31 |
| gkidxrel reverse index | rlSCR_I |

## 3. Field Layout

```
SCR_G       relid = 2598  DBSTORAGE  DBACC_GK    DBPRAM    FR      NULL
     gkSCR_G     DMGK14       (ulong: 14)     <--- key, not stored
     ffcf6       DMUNS16      (ushort)
     route_x     DMRTEIDX     (ushort: 14)
     cst         DMCST        (enum: 2)
     charge_x    DMCHGIDX     (ushort: 11)
 (a) route_type  DMROUTE      (enum: 4)
 (b) rev_bat     DMBOOL       (enum: 1)
     ffcf5       DMUNS8       (ushort: 8)
 (c) conf_type   DMCONFLICT   (enum: 3)
 (d) carr_block  DMBOOL       (enum: 1)
 (e) inter_restrict  DMBOOL       (enum: 1)
 (f) ffcf1       DMBOOL       (enum: 1)
 (g) ffcf2       DMBOOL       (enum: 1)
 (h) ffcf3       DMBOOL       (enum: 1)
 (i) ffcf4       DMBOOL       (enum: 1)
         User and Compacted Tuple Layout  SCR_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkSCR_G              |
    |---------------+---------------+---------------+---------------|
    |                                 |                               |   |
  4 |             ffcf6             |          route_x              |cst|
    |---------------+---------------+---------------+---------------|
    |                     |       | |               |     | | | | | | |
  8 |       charge_x      |   a   |b|     ffcf5     |  c  |d|e|f|g|h|
    |---------------+---------------+---------------+---------------|
    | |                                                               |
 12 |i|***************************************************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
     ffcf6       DMUNS16      (ushort)
     route_x     DMRTEIDX     (ushort: 14)
     cst         DMCST        (enum: 2)
```

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```
    charge_x    DMCHGIDX     (ushort: 11)
(a) route_type  DMROUTE      (enum: 4)
(b) rev_bat     DMBOOL       (enum: 1)
    ffcf5       DMUNS8       (ushort: 8)
(c) conf_type   DMCONFLICT   (enum: 3)
(d) carr_block  DMBOOL       (enum: 1)
(e) inter_restrict  DMBOOL       (enum: 1)
(f) ffcf1       DMBOOL       (enum: 1)
(g) ffcf2       DMBOOL       (enum: 1)
(h) ffcf3       DMBOOL       (enum: 1)
(i) ffcf4       DMBOOL       (enum: 1)
          Stored Tuple Layout    SCR_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                         GK LINK FIELD                         |
   |---------------+---------------+---------------+---------------|
   |                               |                           |   |
 4 |             ffcf6             |          route_x          |cst|
   |---------------+---------------+---------------+---------------|
   |                       |       | |               |     | | | | | |
 8 |       charge_x        |   a   |b|     ffcf5     |  c  |d|e|f|g|h|
   |---------------+---------------+---------------+---------------|
   | |                                                             |
12 |i|*************************************************************|
   |---------------+---------------+---------------+---------------|
      ( 16 bytes )
```

## 4. Population Rules for RLscr_g

There are no population rules for this relation.

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# SCR_LTM

## 1. Description

This relation holds the index to the Selective Call Rejection (SCR) screen list parameters on this logical termination port. It also contains a harsh indicator.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 15 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| corcable | DBYES |

## 3. Field Layout

```
SCR_LTM     relid = 1307  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     scr_idx     DMSEQIDX     (ushort: 16)
     ltm_idx     DMLTM_IDX    (ulong: 16)     <--- key
 (a) ltm_type    DMLTM_TYPE   (enum: 1)     <--- key
 (b) gen_avail   DMBOOL       (enum: 1)
 (c) harsh       DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout    SCR_LTM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            scr_idx            |            ltm_idx            |
   |---------------+---------------+---------------+---------------|
   | | | |                                                         |
 4 |a|b|c|*********************************************************|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population Rules for RLscr_ltm

**Relation Description**
Local Area Signaling Services Selective Call Rejection.

This relation holds the index to the SCR screen list. It also contains a harsh indicator.

General availability access to the LASS Selective Features is denied for the secondary only DNs and all the multi-line hunt group DNs. The 5E6 LASS selective features will not be allowed on Part IV terminals (ISDN PODS) defined in the 5E4 BRI specification. 5E6 LASS SCR feature will be offered only to the following service classes:

FC_INDVDL, FC_ISDN, FC_4WIRE_INDV, FC_PBX

For those lines which have a corresponding tuple in RLltsbport, this LSF data will only exist on the main(lead) port of 1-TN Line Time Slot Bridging lines (LTSB).

**Attribute: ltm_type**

**Fullname:** Logical Termination index type

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**Attribute Description** This is the logical termination type defined same as RLfc_line or RLis_line.

**Attribute: ltm_idx**

**Fullname:** Logical termination Index

**Attribute Description** This is the logical termination index defined same as RLfc_line or RLis_line relation.

**Attribute: gen_avail**

**Fullname:** General Availability

**Attribute Description** The gen_avail indicates the reason of the creation of this tuple. If the gen_avail is DBYES, this tuple is created through the general availability which is an office parameter, Glscrac. If this tuple is created through subscription, this field should be set to DBNO.

**Attribute: harsh**

**Fullname:** Harsh

**Attribute Description** This field indicates whether a harsh announcement will be given to the calling party as a rejection treatment of 5E6 LASS SCR feature. DBNO in this field indicates that a gentle announcement should be given.

**Attribute: scr_idx**

**Fullname:** Selective Call Rejection screen list index

**Attribute Description** The scr_idx is the index to SCR screen list tuples (LSFSCR if gen_avail = DBNO; GENSCR if gen_avail = DBYES) The SCR screen list tuples associated with this ltm_idx can be accessed with the scr_idx and a range from 0 through 10. The scr_idx is allocated/deallocated through SMSEQIDX relation.

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# SCR_R

## 1. Description

This is the Root relation for RLrt_scrning - Screening Data Tables.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 300000 |
| expected tuples in relation | 30000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTORAGE |
| l1 length of subkey1 | 3 |
| p1 position of subkey1 | 12 |
| l2 length of subkey2 | 6 |
| p2 position of subkey2 | 0 |
| l3 length of subkey3 | 10 |
| p3 position of subkey3 | 16 |
| l4 length of subkey4 | 6 |
| p4 position of subkey4 | 6 |
| l5 length of subkey5 | 2 |
| p5 position of subkey5 | 26 |
| l6 length of subkey6 | 0 |
| p6 position of subkey6 | 0 |
| cluster | 64 |
| ks key store | AUTO |

## 3. Field Layout

```
SCR_R       relid = 2597  DBSTORAGE  DBACC_CIND  DBPRAM    FR      NULL
     screen_x    DMSCRNIDX    (ushort: 12)     <--- key, not stored
 (a) prefix      DMPREFIX     (enum: 3)      <--- key, not stored
     dest_x      DMDESTIDX    (ushort: 12)     <--- key, not stored
     scrr        DMGK14       (ulong: 14)
         User and Compacted Tuple Layout  SCR_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |     | |                       |       |
  0 |        screen_x       |  a  |*|         dest_x        |*******|
    |---------------+---------------+---------------+---------------|
    |                           |                                   |
  4 |            scrr           |***********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     scrr        DMGK14       (ulong: 14)
           Stored Tuple Layout    SCR_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           |                                   |
  0 |            scrr           |***********************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLscr_r

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There are no population rules for this relation.

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# SCRIDXPA

## 1. Description

This relation contains the screening index parameter assignment.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
SCRIDXPA    relid = 1725  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL


    ffcf8       DMUNS16      (ushort)
    screen_x    DMSCRNIDX    (ushort: 12)      <--- key
 (a) acp_ind     DMPRIVACY    (enum: 2)
 (b) pcp_ind     DMBOOL       (enum: 1)
 (c) o_bltrig_inh  DMBOOL       (enum: 1)
    ffcf7       DMUNS8       (ushort: 8)
    ani_ii_digits  DMUNS7       (ushort: 7)
 (d) o_natrig_inh  DMBOOL       (enum: 1)
 (e) ffcf1       DMBOOL       (enum: 1)
 (f) ffcf2       DMBOOL       (enum: 1)
 (g) ffcf3       DMBOOL       (enum: 1)
 (h) ffcf4       DMBOOL       (enum: 1)
 (i) ffcf5       DMBOOL       (enum: 1)
 (j) ffcf6       DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   SCRIDXPA
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                       |   | | |
 0 |             ffcf8             |        screen_x       | a |b|c|
   |---------------+---------------+---------------+---------------|
   |               |             | | | | | | | |                   |
 4 |     ffcf7     |ani_ii_digits|d|e|f|g|h|i|j|*******************|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population rules for RLscridxpa

### Relation Description

```
        Screening Index Parameter Assignment

        This relation allows the assignment of parameters (features,
         indicators, etc..) on a per screening index basis.

        "This relation was created for the Calling Party Number Presentation
```

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(CPNP) Special Feature and can be used by other features that need to assign parameters to a line (or trunk) on a per screening index basis. This relation is not required to have a tuple for every screening index. If a tuple for a specific screening index does not exist, defaults are assumed."

**Attribute:**
screen_x
**Fullname:**
Screening Index
**Attribute Description:**
Screening Index associated with the line or trunk which originated the call.

**Attribute:**
acp_ind
**Fullname:**
All Call Privacy Indicator
**Attribute Description:**
Indicates the presentation status of all lines or trunks using this screening index. If SFID50 is not set, then acp_ind must equal PUBLIC.

**Attribute:**
pcp_ind
**Fullname:**
Per Call Privacy Indicator
**Attribute Description:**
Indicates whether or not Per Call Privacy is allowed for this screening index. If SFID50 is not set, then pcp_ind must equal DBNO.

**Attribute:**
ani_ii_digits
**Fullname:**
ANI II pairs
**Attribute Description:**
Two-digit information indicator associated with the screening index.

**Attribute:**
o_bltrig_inh
**Fullname:**
Originating Busy Line Trigger Inhibit
**Attribute Description:**
This attribute will be used to indicate whether or not to inhibit the office Originating Busy Line Trigger. Default for this attribute is DBNO. When set to DBYES, no screening of the dialed

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digit will be performed. This attribute is secured by SFID #212. This functionality was provided by the attribute ffcf1 in 5e11.

**Attribute:**
o_natrig_inh
**Fullname:**
Originating No Answer Trigger Inhibit
**Attribute Description:**
This attribute will be used to indicate whether or not to inhibit the office Originating No Answer Trigger. Default for this attribute is DBNO. When set to DBYES no screening of the dialed digit will be performed. This attribute is secured by SFID #212. This functionality was provided by the attribute ffcf2 in 5e11.

**Attribute:**
ffcf1
**Fullname:**
Boolean reserved for future field feature.
**Attribute Description:**
Future field feature, default to DBNO.

**Attribute:**
ffcf2
**Fullname:**
Boolean reserved for future field feature.
**Attribute Description:**
Future field feature, default to DBNO.

**Attribute:**
ffcf3
**Fullname:**
Boolean reserved for future field feature.
**Attribute Description:**
Future field feature, default to DBNO.

**Attribute:**
ffcf4
**Fullname:**
Boolean reserved for future field feature.
**Attribute Description:**
Future field feature, default is DBNO.

**Attribute:**
ffcf5
**Fullname:**
Boolean reserved for future field feature.
**Attribute Description:**

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Future field feature, default is DBNO.

**Attribute:**
ffcf6
**Fullname:**
Boolean reserved for future field feature.
**Attribute Description:**
Future field feature, default is DBNO.

**Attribute:**
ffcf7
**Fullname:**
Unsigned short reserved for future field feature.
**Attribute Description:**
Future field feature, default is 0.

**Attribute:**
ffcf8
**Fullname:**
Unsigned short reserved for future field feature.
**Attribute Description:**
Future field feature, default is 0.

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# SCRN_R

## 1. Description

Remarks associated with screening data. This is a root storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTORAGE |
| head table size | 2048 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| index length | 10 |
| i2 index length | 7 |
| l1 length of subkey1 | 4 |
| p1 position of subkey1 | 0 |
| l2 length of subkey2 | 4 |
| p2 position of subkey2 | 16 |
| l3 length of subkey3 | 4 |
| p3 position of subkey3 | 4 |
| l4 length of subkey4 | 4 |
| p4 position of subkey4 | 20 |
| l5 length of subkey5 | 4 |
| p5 position of subkey5 | 8 |
| l6 length of subkey6 | 4 |
| p6 position of subkey6 | 24 |
| ks key store | DBNO |
| permutation type | perm |

## 3. Field Layout

```
SCRN_R      relid = 1714  DBSTORAGE  DBACC_CIND  DBPRAM    LP      RCDATA
     dest_x      DMDESTIDX    (ushort: 12)  <--- key, not stored
     screen_x    DMSCRNIDX    (ushort: 12)  <--- key, not stored
     remarks     DMGK16       (ulong: 16)
         User and Compacted Tuple Layout     SCRN_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                         |       |                         |       |
  0 |          dest_x         |*******|         screen_x        |*******|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  4 |             remarks             |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     remarks     DMGK16       (ulong: 16)
           Stored Tuple Layout   SCRN_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |             remarks             |*******************************|
    |---------------+---------------+---------------+---------------|
```

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```
( 2 bytes )
```

## 4. Population Rules for RLscrn_r

There are no population rules for this relation.

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# SCROAR

## 1. Description

OLS Alternate Routing (OAR) Table.
This relation associates an OLS scrncode to an alternate screening index. Therefore, call processing may use the scrncode to determine an alternate screening index, resulting in an alternate routing.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| expected number of tuples | 128 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
SCROAR      relid = 1873  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     screen_x    DMSCRNIDX    (ushort: 12)
 (a) elig_ext_rtg  DMBOOL       (enum: 1)
     destidx     DMDESTIDX    (ushort: 12)
     scrncode    DMSCRCDE     (ushort: 10)     <--- key
     num_ext_rtg  DMDN         (struct)
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
         User, Compacted and Stored Tuple Layout SCROAR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       | |     |                       |       |
  0 |        screen_x       |a|*****|        destidx        |*******|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  4 |      scrncode     |*******************************************|
    |===============+========= num_ext_rtg =========+===============|
    |       |       |                                               |
  8 | digcnt|*******|                      dn                       |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                               dn                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                               dn                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                               dn                              |
    |===============+===============+===============+===============|
       ( 24 bytes )
```

## 4. Population Rules for RLscroar

**Relation Description**
OLS - Alternate Routing (OAR) Table.

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This relation associates an OLS scrncode to a screening index.

Therefore, call processing may use the scrncode to determine an alternate screening index, resulting in an alternate routing treatment.

**Attribute: scrncode**

**Fullname:** OLS - Scrncode

**Attribute Description** Contains OLS scrncode values.
Any value from 1-999.

**Attribute: screen_x**

**Fullname:** Screening Index

**Attribute Description** Indicates the screening index to be substituted when alternate routing is determined for the screening code which originated this call. Any value from 0 to 4095 inclusive is valid, with 0 mapping to a blank internally.

**Attribute: num_ext_rtg**

**Fullname:** External Routing Number

**Attribute Description** This attribute is used to specify what number the external routing number is.

**Attribute: elig_ext_rtg**

**Fullname:** External Routing Eligibility

**Attribute Description** This attribute is used to specify whether or not this call is eligible for external routing.

**Attribute: destidx**

**Fullname:** Destination Index

**Attribute Description** This attribute is used to specify what the destination index is for the external routing number.

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# SDA_LTM

## 1. Description

Selective Distinctive Alerting (SDA) feature parameters on this logical termination port.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 4 |
| density | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| corcable | DBYES |
| ks key store | AUTO |

## 3. Field Layout

```
SDA_LTM     relid = 1308  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
 (a) ltm_type    DMLTM_TYPE   (enum: 1)  <--- key, not stored
     ltm_idx     DMLTM_IDX    (ulong: 16)  <--- key, not stored
     sda_idx     DMSEQIDX     (ushort: 16)
 (b) gen_avail   DMBOOL       (enum: 1)
         User and Compacted Tuple Layout    SDA_LTM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | |                               |                               |
  0 |a|            ltm_idx            |*******************************|
    |---------------+---------------+---------------+---------------|
    |                               | |                               |
  4 |            sda_idx            |b|*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     sda_idx     DMSEQIDX     (ushort: 16)
 (a) gen_avail   DMBOOL       (enum: 1)
          Stored Tuple Layout      SDA_LTM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               | |                               |
  0 |            sda_idx            |a|*******************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLsda_ltm

**Relation Description**
Local Area Signaling Services Selective Distinctive Alert.

This relation holds the index to the SDA screen list. General availability access to the LASS selective features is denied for the secondary only DNs and all the multi-line hunt group DNs. The 5E6 LASS selective features will not be allowed on Part IV terminals (ISDN PODS) defined in the 5E4 BRI specification. 5E6 LASS SDA feature will be offered only to the following service classes:

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FC_INDVDL, FC_ISDN, FC_PBX
For those lines which have a corresponding tuple in RLltsbport, this LSF data will only exist on the main(lead) port of 1-TN line time slot bridging (LTSB) lines.

**Attribute: ltm_type**

**Fullname:** Logical Termination index type

**Attribute Description** This is the logical termination type defined same as RLfc_line or RLis_line.

**Attribute: ltm_idx**

**Fullname:** Logical termination Index

**Attribute Description** This is the logical termination index defined same as RLfc_line or RLis_line relation.

**Attribute: gen_avail**

**Fullname:** General Availability

**Attribute Description** The gen_avail indicates the reason of the creation of this tuple. If the gen_avail is DBYES, this tuple is created through the general availability which is an office parameter, Glsdaac. If this tuple is created through subscription, this field should be set to DBNO.

**Attribute: sda_idx**

**Fullname:** Selective Distinctive Alert screen list index

**Attribute Description** The sda_idx is the index to SDA screen list tuples (LSFSDA if gen_avail = DBNO; GENSDA if gen_avail = DBYES) The SDA screen list tuples associated with this ltm_idx can be accessed with the sda_idx and a range from 0 through 10. The sda_idx is allocated/deallocated through SMSEQIDX relation.

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# SDL_ST

## 1. Description

This relation defines the signaling terminal (ST) port number associated with each Basic Allocation Signaling Data Link(SDL).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 256 |
| expected number of tuples | 4 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
SDL_ST      relid = 2523  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     sdl_port    DMPORT       (ushort)     <--- key
     st_port     DMPORT       (ushort)
     st_sm       DMMODULE     (ushort: 8)
 (a) jt_48kb     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout SDL_ST
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            sdl_port           |            st_port            |
    |---------------+---------------+---------------+---------------|
    |               | |                                           |
  4 |     st_sm     |a|*******************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLsdl_st

**Relation Description**
Signaling Data Link to Signaling Terminal mapping.

This relation is used for Basic Allocation for protocol types: SS7 (NATL and INTL). This relation maps the signaling data link port to the signaling terminal port.

**Attribute: sdl_port**

**Fullname:** Signaling Data Link Port

**Attribute Description** This attribute defines the Signaling Data Link port that is used for Basic Allocation.

**Attribute: st_sm**

**Fullname:** Signaling Terminal Switching Module

**Attribute Description** This attribute defines the module of the signaling terminal port.

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**Attribute: st_port**

**Fullname:** Signaling Terminal port.

**Attribute Description** This attribute defines the Signaling Terminal port.

**Attribute: jt_48kb**

**Fullname:** Japan 48 Kbps SS7 Sdl

**Attribute Description** This bit indicates whether the 48 Kbps SS7 Sdl is being used.

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# SEC_DNA

## 1. Description

This static relation is populated in all ISDN SMs containing BASIC EKTS(R) terminals. The relation contains one tuple for every BASIC EKTS(R) terminal containing one or more secondary TNs. The relation stores the default bearer capability of the terminals secondary TNs and the DN Appearance ID range of the secondary TN on the primary TN's terminal.

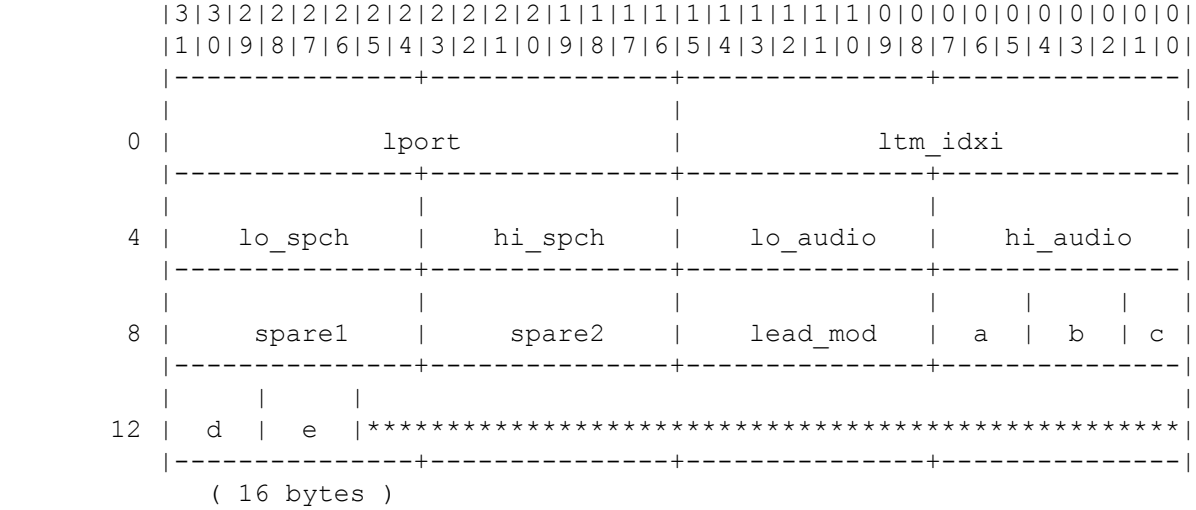
## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16383 |
| expected tuples in relation | 7200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | TMsec_dna |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
SEC_DNA     relid = 2057  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     lport       DMLPORT      (ushort: 16) <--- key
     ltm_idxi    DMLTM_IDX    (ulong: 16) <--- key
     lo_spch     DMCALLAP     (uchar: 8)
     hi_spch     DMCALLAP     (uchar: 8)
     lo_audio    DMCALLAP     (uchar: 8)
     hi_audio    DMCALLAP     (uchar: 8)
     spare1      DMUCHAR      (uchar)
     spare2      DMUCHAR      (uchar)
     lead_mod    DMSM         (ushort: 8) <--- key
 (a) spare3      DMUNS3       (ushort: 3)
 (b) spare4      DMUNS3       (ushort: 3)
 (c) spare7      DMUNS2       (ushort: 2)
 (d) spare5      DMUNS3       (ushort: 3)
 (e) spare6      DMUNS3       (ushort: 3)
```

User, Compacted and Stored Tuple Layout SEC_DNA




( 16 bytes )

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## 4. Population rules for RLsec_dna

### Relation Description

Secondary DN EKTS(TM)_BASIC Terminal Call Appearance Default Bearer Capability
This relation stores information about the default bearer capability assigned to a secondary TN of a EKTS_BASIC standard terminal. There should never be any tuples in this relation for EKTS_CACH, BASIC CALL, Standard ACO or Custom-BRI terminals.
The default bearer channel information is used during the Automatic Terminal Setup (ATS) terminal download. The only type of default bearer capability service allowed for secondary TNs is Circuit Switched Voice as either speech (lo_spch / hi_spch) or 3.1 KHz audio (lo_audio / hi_audio).
This relation contains one tuple for every secondary TN that is assigned to a primary CKTTN of an EKTS_BASIC terminal. The four lo* / hi* attribute values may not be provisioned into the ranges for any of the primary CKTTN, ODBTN or DPKTTN default bearer capabilities defined in RLprim_dna. The four lo* and hi* attributes may contain values from 1 thru 254.

**Attribute:**
lport
**Fullname:**
Logical Port Number
**Attribute Description:**
This attribute contains the circuit switched logical port number of the EKTS_BASIC Primary TN standard terminal that has this secondary TN assigned.
This lport value must also exist in RLspid.ckt_lport and RLlpt_spid.lport on this SM.

**Attribute:**
lead_mod
**Fullname:**
Lead Module of the Secondary TN
**Attribute Description:**
This attribute contains the lead module of the Secondary TN. This value can range from 1 to 192.

**Attribute:**
ltm_idxi
**Fullname:**
Logical Termination Index of Secondary TN
**Attribute Description:**
This attribute contains the logical termination index of the secondary TN. This value is assigned on the lead module SM.

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**Attribute:**
lo_spch
**Fullname:**
Lowest Speech Bearer Capability DN Appearance ID
**Attribute Description:**
This attribute contains the DN Appearance ID (DNA) that is the lowest Speech CSV DNA of this secondary TN for the default bearer capability of Speech CSV for an EKTS_BASIC terminals primary TN.

For every tuple in RLsec_dna, this attributes value may only appear once for both bearer capability lo - hi attributes (that is, this number cannot be included in the ranges of any other bearer capabilities for this RLsec_dna tuple). There is also a coupling with this relation and RLprim_dna for any primary DN Appearance IDs. For every tuple in RLsec_dna that has a RLlpt_spid.uspid value equal to RLprim_dna.uspid, all RLprim_dna.lo* and hi* attribute values cannot appear in any bearer capability lo - hi attribute ranges of this relation (that is, this number cannot be included in the ranges of any bearer capabilities for the corresponding RLprim_dna tuple).

**Attribute:**
hi_spch
**Fullname:**
Highest Speech Bearer Capability DN Appearance ID
**Attribute Description:**
This attribute contains the DN Appearance ID (DNA) that is the highest Speech CSV DNA of this secondary TN for the default bearer capability of Speech CSV for an EKTS_BASIC terminals primary TN.

For every tuple in RLsec_dna, this attributes value may only appear once for both bearer capability lo - hi attributes (that is, this number cannot be included in the ranges of any other bearer capabilities for this RLsec_dna tuple). There is also a coupling with this relation and RLprim_dna for any primary DN Appearance IDs. For every tuple in RLsec_dna that has a RLlpt_spid.uspid value equal to RLprim_dna.uspid, all RLprim_dna.lo* and hi* attribute values cannot appear in any bearer capability lo - hi attribute ranges of this relation (that is, this number cannot be included in the ranges of any bearer capabilities for the corresponding RLprim_dna tuple).

**Attribute:**
lo_audio
**Fullname:**
Lowest 3.1 KHz Audio Bearer Capability DN Appearance ID
**Attribute Description:**

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This attribute contains the DN Appearance ID (DNA) that is the lowest 3.1 KHz Audio CSV DNA of this secondary TN for the default bearer capability of 3.1 KHz Audio CSV for an EKTS_BASIC terminals primary TN.

For every tuple in RLsec_dna, this attributes value may only appear once for both bearer capability lo - hi attributes (that is, this number cannot be included in the ranges of any other bearer capabilities for this RLsec_dna tuple).
There is also a coupling with this relation and RLprim_dna for any primary DN Appearance IDs. For every tuple in RLsec_dna that has a RLlpt_spid.uspid value equal to RLprim_dna.uspid, all RLprim_dna.lo* and hi* attribute values cannot appear in any bearer capability lo - hi attribute ranges of this relation (that is, this number cannot be included in the ranges of any bearer capabilities for the corresponding RLprim_dna tuple).

**Attribute:**
hi_audio
**Fullname:**
Highest 3.1 KHz Audio Bearer Capability DN Appearance ID
**Attribute Description:**
This attribute contains the DN Appearance ID (DNA) that is the highest 3.1 KHz Audio CSV DNA of this secondary TN for the default bearer capability of 3.1 KHz Audio CSV for an EKTS_BASIC terminals primary TN.

For every tuple in RLsec_dna, this attributes value may only appear once for both bearer capability lo - hi attributes (that is, this number cannot be included in the ranges of any other bearer capabilities for this RLsec_dna tuple).
There is also a coupling with this relation and RLprim_dna for any primary TN Appearance IDs. For every tuple in RLsec_dna that has a RLlpt_spid.uspid value equal to RLprim_dna.uspid, all RLprim_dna.lo* and hi* attribute values cannot appear in any bearer capability lo - hi attribute ranges of this relation (that is, this number cannot be included in the ranges of any bearer capabilities for the corresponding RLprim_dna tuple).

**Attribute:**
spare1
**Fullname:**
Spare unsigned character
**Attribute Description:**
Spare unsigned character

**Attribute:**
spare2
**Fullname:**
Spare unsigned character

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**Attribute Description:**
Spare unsigned character

**Attribute:**
spare3
**Fullname:**
Spare unsigned 3-bits
**Attribute Description:**
Spare unsigned 3-bits

**Attribute:**
spare4
**Fullname:**
Spare unsigned 3-bits
**Attribute Description:**
Spare unsigned 3-bits

**Attribute:**
spare5
**Fullname:**
Spare unsigned 3-bits
**Attribute Description:**
Spare unsigned 3-bits

**Attribute:**
spare6
**Fullname:**
Spare unsigned 3-bits
**Attribute Description:**
Spare unsigned 3-bits

**Attribute:**
spare7
**Fullname:**
Spare unsigned 2-bits
**Attribute Description:**
Spare unsigned 2-bits

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# SEILABEL

## 1. Description

This realtion contains the Originating Line Number Screening Service or Equipment Indicator Label Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| expected number of tuples | 43 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
SEILABEL    relid = 2816  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     text        DMCHR11      (array [ 11 ] of char )
     sei         DMUNS7       (ushort: 7)    <--- key
         User, Compacted and Stored Tuple Layout   SEILABEL
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                              text                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                              text                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                 |             | |
  8 |                      text                       |     sei     |*|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population rules for RLseilabel

### Relation Description

Screening Service or Equipment Indicator Label Table
Relation containing information for Originating Line Number
Screening Service or Equipment Indicator Label Table.

**Attribute:**
sei
**Fullname:**
service equipment indicator
**Attribute Description:**
service equipment indicator value.

**Attribute:**
text
**Fullname:**
text
**Attribute Description:**

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This attribute holds a string of up to 11 characters. It is a text identification of the cluster and may contain any comment. However, it is expected to be used to title display pages and the like and was intended to carry a title for the cluster (such as; Brokenburg, MCI POP, etc.) If there are less than 11 characters in the string, it should be padded with binary zeros.

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# SEL_COLL

## 1. Description

Select collect table. Holds ANIs from which collect billing is allowed to the ANI of the keys.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 25000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
SEL_COLL    relid = 2013  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     anitbl       DMANITBL      (ushort: 15)  <--- key
 (a) spare1       DMBOOL        (enum: 1)
     locdigs      DMLINENO      (ushort: 14)  <--- key
 (b) spare2       DMUNS2        (ushort: 2)
     tupnum       DMUNS4        (ushort: 4)  <--- key
     spare3       DMUNS12       (ushort: 12)
     spare4       DMUSHORT      (ushort)
     sc_ani0      DMDN10_BCD    (struct)
         dn0          DMBCD         (ushort: 4)
         dn1          DMBCD         (ushort: 4)
         dn2          DMBCD         (ushort: 4)
         dn3          DMBCD         (ushort: 4)
         dn4          DMBCD         (ushort: 4)
         dn5          DMBCD         (ushort: 4)
         dn6          DMBCD         (ushort: 4)
         dn7          DMBCD         (ushort: 4)
         dn8          DMBCD         (ushort: 4)
         dn9          DMBCD         (ushort: 4)
         digcnt       DMDIGCNT      (uchar: 4)
     sc_ani1      DMDN10_BCD    (struct)
         dn0          DMBCD         (ushort: 4)
         dn1          DMBCD         (ushort: 4)
         dn2          DMBCD         (ushort: 4)
         dn3          DMBCD         (ushort: 4)
         dn4          DMBCD         (ushort: 4)
         dn5          DMBCD         (ushort: 4)
         dn6          DMBCD         (ushort: 4)
         dn7          DMBCD         (ushort: 4)
         dn8          DMBCD         (ushort: 4)
         dn9          DMBCD         (ushort: 4)
         digcnt       DMDIGCNT      (uchar: 4)
     sc_ani2      DMDN10_BCD    (struct)
         dn0          DMBCD         (ushort: 4)
         dn1          DMBCD         (ushort: 4)
         dn2          DMBCD         (ushort: 4)
         dn3          DMBCD         (ushort: 4)
         dn4          DMBCD         (ushort: 4)
```

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```
        dn5         DMBCD        (ushort: 4)
        dn6         DMBCD        (ushort: 4)
        dn7         DMBCD        (ushort: 4)
        dn8         DMBCD        (ushort: 4)
        dn9         DMBCD        (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
    sc_ani3     DMDN10_BCD   (struct)
        dn0         DMBCD        (ushort: 4)
        dn1         DMBCD        (ushort: 4)
        dn2         DMBCD        (ushort: 4)
        dn3         DMBCD        (ushort: 4)
        dn4         DMBCD        (ushort: 4)
        dn5         DMBCD        (ushort: 4)
        dn6         DMBCD        (ushort: 4)
        dn7         DMBCD        (ushort: 4)
        dn8         DMBCD        (ushort: 4)
        dn9         DMBCD        (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
    sc_ani4     DMDN10_BCD   (struct)
        dn0         DMBCD        (ushort: 4)
        dn1         DMBCD        (ushort: 4)
        dn2         DMBCD        (ushort: 4)
        dn3         DMBCD        (ushort: 4)
        dn4         DMBCD        (ushort: 4)
        dn5         DMBCD        (ushort: 4)
        dn6         DMBCD        (ushort: 4)
        dn7         DMBCD        (ushort: 4)
        dn8         DMBCD        (ushort: 4)
        dn9         DMBCD        (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        User, Compacted and Stored Tuple Layout   SEL_COLL
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               | |                           |   |
 0 |            anitbl             |a|          locdigs          | b |
   |---------------+---------------+---------------+---------------|
   |       |                       |                               |
 4 | tupnum|         spare3        |             spare4            |
   |===============+=========== sc_ani0 ===========+===============|
   |       |       |       |       |       |       |       |       |
 8 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |                                       |
12 |  dn8  |  dn9  | digcnt|***************************************|
   |===============+=========== sc_ani1 ===========+===============|
   |       |       |       |       |       |       |       |       |
16 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |                                       |
20 |  dn8  |  dn9  | digcnt|***************************************|
   |===============+=========== sc_ani2 ===========+===============|
   |       |       |       |       |       |       |       |       |
24 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
```

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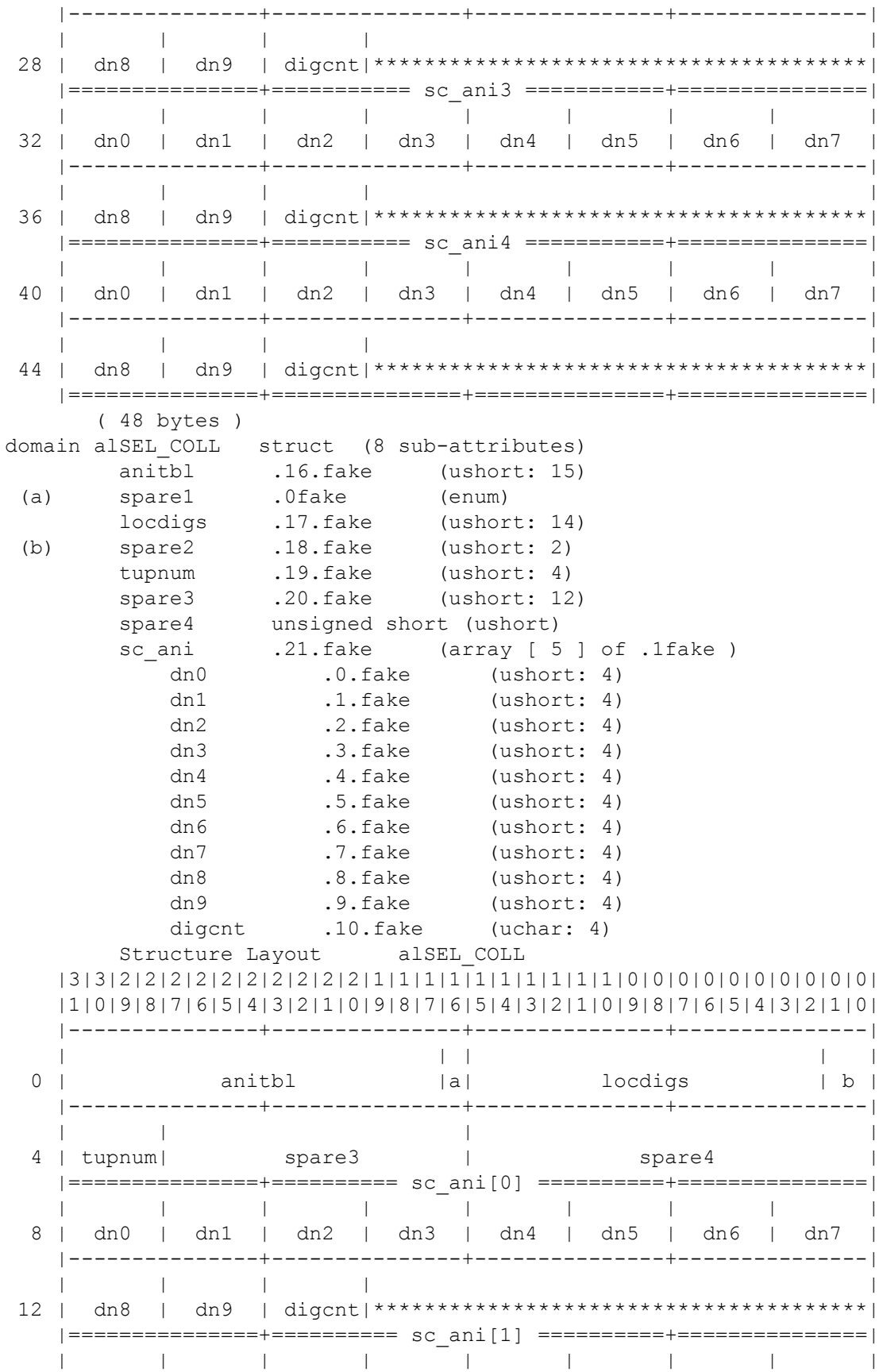


```
      ( 48 bytes )
domain alSEL_COLL   struct  (8 sub-attributes)
         anitbl      .16.fake     (ushort: 15)
 (a)     spare1      .0fake       (enum)
         locdigs     .17.fake     (ushort: 14)
 (b)     spare2      .18.fake     (ushort: 2)
         tupnum      .19.fake     (ushort: 4)
         spare3      .20.fake     (ushort: 12)
         spare4      unsigned short (ushort)
         sc_ani      .21.fake     (array [ 5 ] of .1fake )
             dn0         .0.fake      (ushort: 4)
             dn1         .1.fake      (ushort: 4)
             dn2         .2.fake      (ushort: 4)
             dn3         .3.fake      (ushort: 4)
             dn4         .4.fake      (ushort: 4)
             dn5         .5.fake      (ushort: 4)
             dn6         .6.fake      (ushort: 4)
             dn7         .7.fake      (ushort: 4)
             dn8         .8.fake      (ushort: 4)
             dn9         .9.fake      (ushort: 4)
             digcnt      .10.fake     (uchar: 4)
         Structure Layout      alSEL_COLL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               | |                             |   |
  0 |             anitbl            |a|          locdigs            | b |
    |---------------+---------------+---------------+---------------|
    |       |                       |                               |
  4 | tupnum|         spare3        |             spare4            |
    |===============+========== sc_ani[0] ==========+===============|
    |       |       |       |       |       |       |       |       |
  8 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |                                       |
 12 |  dn8  |  dn9  | digcnt|***************************************|
    |===============+========== sc_ani[1] ==========+===============|
    |       |       |       |       |       |       |       |       |
```

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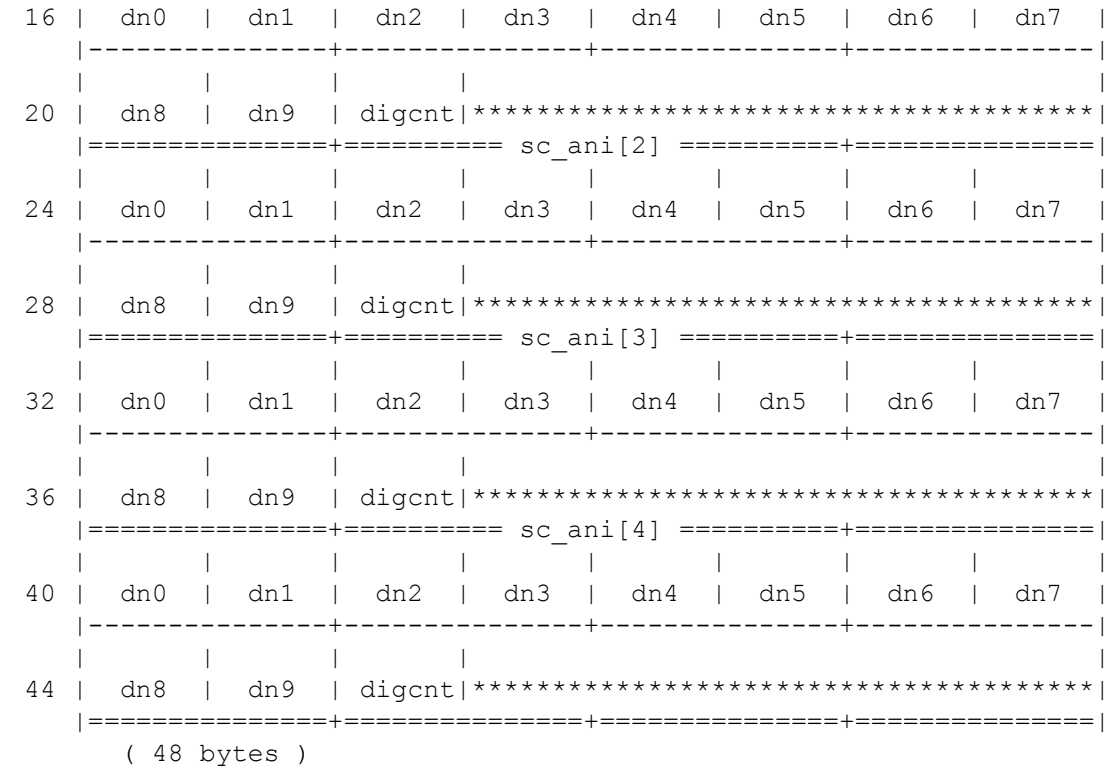


## 4. Population Rules for RLsel_coll

**Relation Description** Select collect table. This relation holds automatic number identification (ANIs) from which collect billing is allowed to the ANI of the key. The feature is not committed, so this is spare data created just in case.

**Attribute: anitbl**

**Fullname:** Automatic number identification table index

**Attribute Description** Obtained from the RLanimod relation.

**Attribute: spare1**

**Fullname:** Spare 1

**Attribute Description** Spare field.

**Attribute: locdigs**

**Fullname:** Local line number of ANI

**Attribute Description** The local line number; the last four digits of the ANI.

**Attribute: spare2**

**Fullname:** Spare 2

**Attribute Description** Spare field.

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**Attribute: tupnum**

**Fullname:** Tuple number

**Attribute Description** Provides a unique key to allow multiple tuples per ANI.

**Attribute: spare3**

**Fullname:** Spare 3

**Attribute Description** Spare field.

**Attribute: spare4**

**Fullname:** Spare 4

**Attribute Description** Spare field.

**Attribute: sc_ani[*]**

**Fullname:** Select collect ANI 0 - 4

**Attribute Description** One of up to five ANIs allowed to make collect calls to this ANI; ten digits are stored in binary coded decimal (BCD) in this field.

**Attribute: sc_ani[*].dn0**

**Fullname:** Select collect ANI digit 0

**Attribute Description** BCD digit 0 of ANI.

**Attribute: sc_ani[*].dn1**

**Fullname:** Select collect ANI digit 1

**Attribute Description** BCD digit 1 of ANI.

**Attribute: sc_ani[*].dn2**

**Fullname:** Select collect ANI digit 2

**Attribute Description** BCD digit 2 of ANI.

**Attribute: sc_ani[*].dn3**

**Fullname:** Select collect ANI digit 3

**Attribute Description** BCD digit 3 of ANI.

**Attribute: sc_ani[*].dn4**

**Fullname:** Select collect ANI digit 4

**Attribute Description** BCD digit 4 of ANI.

**Attribute: sc_ani[*].dn5**

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**Fullname:** Select collect ANI digit 5

**Attribute Description** BCD digit 5 of ANI.

**Attribute: sc_ani[*].dn6**

**Fullname:** Select collect ANI digit 6

**Attribute Description** BCD digit 6 of ANI.

**Attribute: sc_ani[*].dn7**

**Fullname:** Select collect ANI digit 7

**Attribute Description** BCD digit 7 of ANI.

**Attribute: sc_ani[*].dn8**

**Fullname:** Select collect ANI digit 8

**Attribute Description** BCD digit 8 of ANI.

**Attribute: sc_ani[*].dn9**

**Fullname:** Select collect ANI digit 9

**Attribute Description** BCD digit 9 of ANI.

**Attribute: sc_ani[*].digcnt**

**Fullname:** Select collect ANI digit count

**Attribute Description** Digit count of ANI stored in this structure.

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# SEQREST

## 1. Description

Specifies which telephone numbers can not be dialed as sequence calls in ACCS.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
SEQREST     relid = 353   DBSTATIC   DBACC_LIN   DBPRAM    FR      NULL
     cld_rest    DMDN         (struct)     <--- key
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
 (a) accs        DMBOOL       (enum: 1)
 (b) sab         DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout    SEQREST
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+==========  cld_rest ==========+===============|
    |       |       |                                               |
  0 | digcnt|*******|                      dn                       |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                               dn                              |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                               dn                              |
    | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                               dn                              |
    |===============+===============+===============+===============|
    | | |                                                           |
 16 |a|b|***********************************************************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population Rules for RLseqrest

**Relation Description**
Sequence number restriction.

Specifies which telephone numbers can not be dialed as sequence calls in automated calling card services (ACCS).

**Attribute: cld_rest**

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**Fullname:** Called number restriction

**Attribute Description** A three, seven or ten digit directory number (DN) for a called party that cannot be dialed as an ACCS sequence call. The only numbers which are allowed in this relation are:

```
411         (restrict 411 number)
611         (restrict 611 number)
911         (restrict 911 number)
500         (restrict all 500-XXX-XXXX numbers)
700         (restrict all 700-XXX-XXXX numbers)
800         (restrict all 800-XXX-XXXX numbers)
900         (restrict all 900-XXX-XXXX numbers)
5551212     (restrict 5551212 numbers)
0005551212 (restrict all 5551212 numbers
             where any numbering plan area [NPA] was dialed)
```

The 0005551212 number represents all NPA5551212 numbers and will be restricted if the relation contains this tuple. OR any number found in inwnpa of RLinwnpas, these are INWATTS NPAs and can be restricted. This relation may contain any combination of the previous numbers. However, these numbers are the only numbers acceptable in this relation.

**Attribute: cld_rest.digcnt**

**Fullname:** Digit count

**Attribute Description** Digit count for called number restriction.

**Attribute: cld_rest.dn**

**Fullname:** DN for restricted called number

**Attribute Description** DN for restricted called number.

**Attribute: accs**

**Fullname:** Automated calling card service

**Attribute Description**

```
DBYES  -  can be forward number for ACCS
DBNO   -  cannot be forward number for ACCS
```

**Attribute: sab**

**Fullname:** Subaccount billing

**Attribute Description**

```
DBYES - this DN can be a forward number for a subaccount
        billing service call.
```

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# SERVDATA

## 1. Description

Service Data as defined by *5ESS*®-2000 switch owner.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
SERVDATA    relid = 1269  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     annc_type    DMANNC_ID     (ulong: 17)
     ics_billno   DMDIG10       (array [ 10 ] of char )
     num_recalls   DMUNS8        (ushort: 8)
     serv_dest    DMUSHORT      (ushort)
     oaff1        DMUSHORT      (ushort)
     turnbk_rtidx   DMRTEIDX      (ushort: 12)
 (a) init_action   DMINITACT     (enum: 2)
 (b) oaff6        DMBOOL        (enum: 1)
     call_progrtidx   DMRTEIDX      (ushort: 12)
 (c) serv_code    DMSRVCODE     (enum: 4)
     serv_id      DMUNS10       (ushort: 10)     <--- key
     oaff4        DMUNS6        (ushort: 6)
     eis_app_code   DMUNS10       (ushort: 10)
     oaff2        DMUNS6        (ushort: 6)
     recall_dly   DMUNS10       (ushort: 10)
     oaff3        DMUNS6        (ushort: 6)
     lsccdigtim   DMUNS10       (ushort: 10)
 (d) init_eis_id   DMEIS_ID      (ushort: 5)
 (e) cc_on        DMBOOL        (enum: 1)
     oaff5        DMUNS8        (ushort: 8)
         User, Compacted and Stored Tuple Layout   SERVDATA
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |            annc_type          |*************|   ics_billno  |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                           ics_billno                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                           ics_billno                          |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |               |               |                               |
 12 |   ics_billno  |  num_recalls  |           serv_dest           |
    |---------------+---------------+---------------+---------------|
    |                               |                       |   | | |
```

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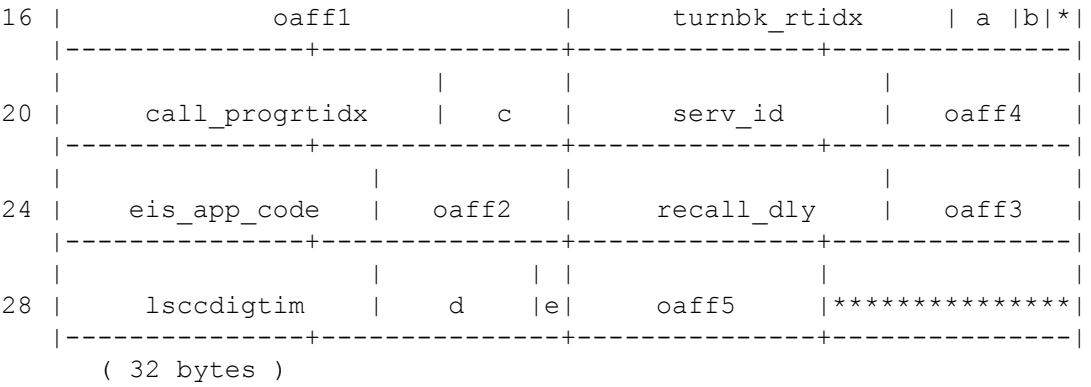


## 4. Population Rules for RLservdata

**Relation Description**
Service Data.

This relation provides customer service parameters as defined by the *5ESS*®-2000 switch owner. To determine the treatment each call is to receive and to provide a flexible way of assigning the destination ID provided by the vendor, a service ID is associated with each call queue and specified in RLctinfo. Any destination ID provided by an EIS vendor can be mapped into current and future destination route types. This is in place of having specific ranges assigned for particular destination route types (internal announcement vs. external announcement, etc.).

Maximum number of tuples is 128 (based on 128 call queues). Expected average number of tuples is 30.

**Attribute: serv_id**

**Fullname:** Service Identification

**Attribute Description** Service ID for this particular EIS service.

**Attribute: init_action**

**Fullname:** Initial Action

**Attribute Description** Used by call processing at call origination to determine the initial treatment to be given to the call.

**Attribute: init_eis_id**

**Fullname:** Initial EIS ID

**Attribute Description** EIS ID of the pre-operator EIS. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: serv_dest**

**Fullname:** Service Destination

**Attribute Description** Key to RLsrv_dest which provides the initial routing destination for the initial action of a service. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: annc_type**

**Fullname:** Announcement Type

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**Attribute Description** Specifies the announcement to be supplied by the *5ESS*®-2000 switch DSU2 RAF when this internal announcement source is selected as the initial service destination. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: serv_code**

**Fullname:** Service Code

**Attribute Description** Indicates the internal call events which are applicable to this service.

**Attribute: eis_app_code**

**Fullname:** EIS Application Code

**Attribute Description** Informs the vendor of the service application required for this call. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: num_recalls**

**Fullname:** Number of Recalls

**Attribute Description** Default number of recalls when a value is not provided by an EIS, or when a service is provided without EIS support.

**Attribute: recall_dly**

**Fullname:** Recall Delay

**Attribute Description** Default recall delay (in tenths of seconds) when a value is not provided by an EIS, or when a service is provided without EIS support. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: lsccdigtim**

**Fullname:** LSCC Prompting Digit Timing

**Attribute Description** Determines the amount of digit timing, in 50 millisecond intervals, for Listing Services call completion prompting when an internal ARU is used. Zero is not allowed on the RC/ODA form. It is equivalent to unknown. This attribute must be zero prior to 5E6(2).

**Attribute: cc_on**

**Fullname:** Is call completion allowed?

**Attribute Description** This turns call completion on and off for each service provided by EIS.

**Attribute: turnbk_rtidx**

**Fullname:** Turn Back Route Index

**Attribute Description** This specifies the route index to be used for a Listing Services call completion turnback (cannot complete call) announcement.
Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: call_progrtidx**

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**Fullname:** Call Progress Route Index

**Attribute Description** This specifies the route index to be used for an LSCC call progress announcement before an operator is attached. If it is zero, then no call progress announcement will be made.
Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: ics_billno**

**Fullname:** ICS Billing Number

**Attribute Description** This attribute is used to specify the ICS 10-digit billing number.

**Attribute: oaff1**

**Fullname:** Spare 1

**Attribute Description** For possible future use.

**Attribute: oaff2**

**Fullname:** Spare 2

**Attribute Description** For possible future use.

**Attribute: oaff3**

**Fullname:** Spare 3

**Attribute Description** For possible future use.

**Attribute: oaff4**

**Fullname:** Spare 4

**Attribute Description** For possible future use.

**Attribute: oaff5**

**Fullname:** Spare 5

**Attribute Description** For possible future use.

**Attribute: oaff6**

**Fullname:** Spare 6

**Attribute Description** For possible future use.

**Defines:** "db/DMcarr_val.h"

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# SERVDES

## 1. Description

Thsi relation contains the Service Designation Table for AATOS and SDN/NRA 1+800 calls.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
SERVDES     relid = 1472  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     sscwxy      DMUNL20      (ulong: 20) <--- key
 (a) po_cc_id    DMUNS4       (ushort: 4)
     oaff10      DMCHR2       (array [ 2 ] of char )
     measidx     DMUNS7       (ushort: 7)
 (b) fts         DMBOOL       (enum: 1)
     spare       DMUSHORT     (ushort)
     destidx     DMDESTIDX    (ushort: 12)
     z           DMUNS4       (ushort: 4) <--- key
     inwnpa      DMONPA       (ushort: 10) <--- key
     oaff7       DMUNS4       (ushort: 4)
 (c) acqs        DMBOOL       (enum: 1)
 (d) paid        DMBOOL       (enum: 1)
     lang_code   DMUNS10      (ushort: 10)
     servind     DMSERVIND    (enum: 6)
     oaff5       DMUNS10      (ushort: 10)
 (e) is800bit    DMBOOL       (enum: 1)
 (f) quietheartrmt  DMBOOL       (enum: 1)
 (g) audiologobrand  DMBOOL       (enum: 1)
 (h) autotrmt    DMBOOL       (enum: 1)
 (i) autocdsu    DMBOOL       (enum: 1)
 (j) elig_ext_rtg  DMBOOL       (enum: 1)
     oaff9       DMUNS10      (ushort: 10)
 (k) asaptreatment  DMBOOL       (enum: 1)
 (l) lc_alw      DMBOOL       (enum: 1)
 (m) oaff4       DMBOOL       (enum: 1)
 (n) oaff6       DMBOOL       (enum: 1)
 (o) oaff11      DMBOOL       (enum: 1)
     label       DMCHAR7      (array [ 7 ] of char )
     tcsonpa     DMCHAR3      (array [ 3 ] of char )
     oaff8       DMCHAR3      (array [ 3 ] of char )
     num_ext_rtg  DMDN         (struct)
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )


         User, Compacted and Stored Tuple Layout    SERVDES
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
```

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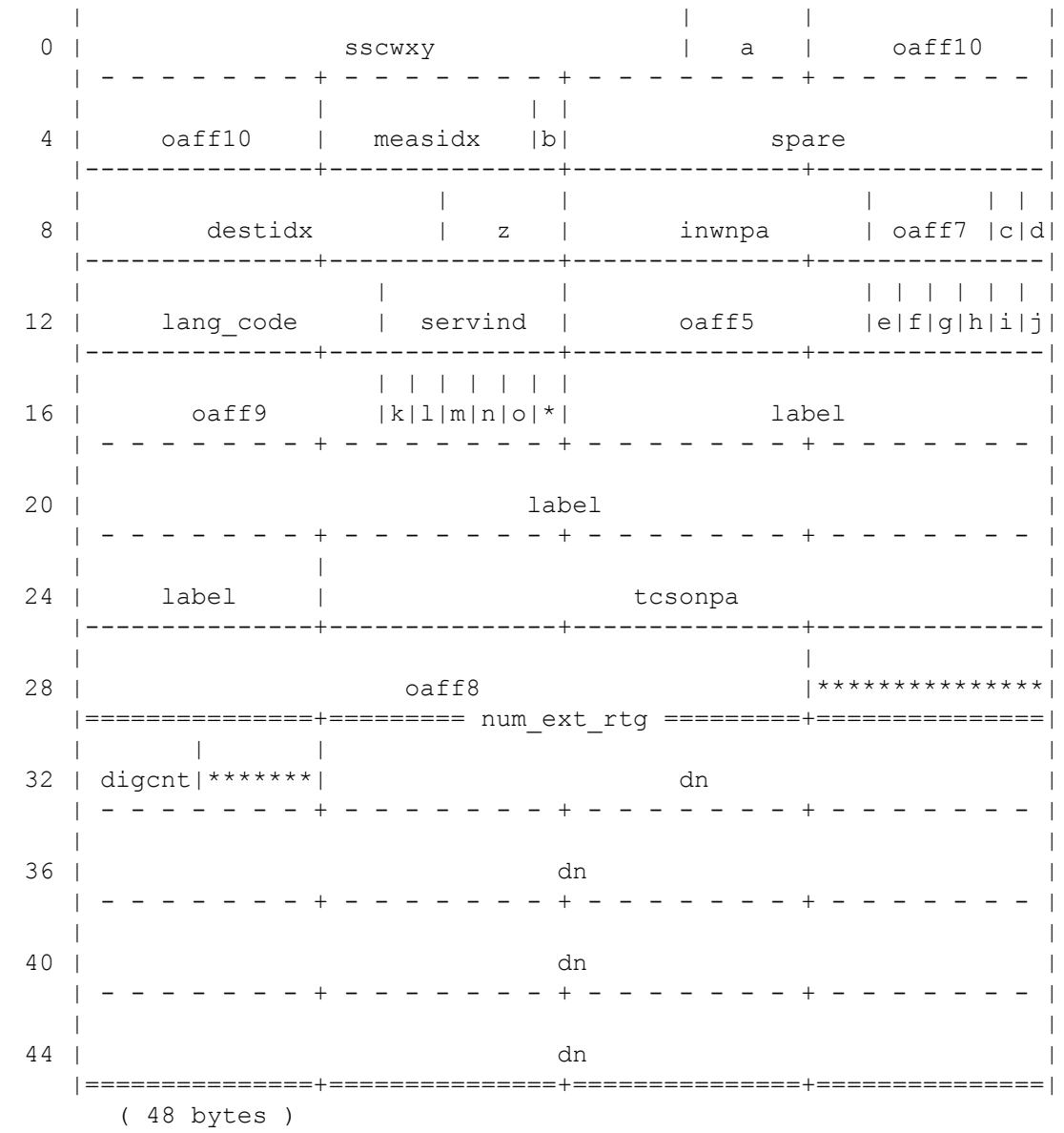


## 4. Population rules for RLservdes

### Relation Description

Service designation table
Relation is used to determine which is the expected service type for 1+800 calls arriving on alternate access services (AATOS) and software defined network (SDN)/network remote access (NRA) multifrequency (MF) trunks, or as alternate access to language specific operators (AATLSOS) or Federal Telecommunications Systems network remote access (FTS NRA) calls.
This relation is also used for the SU feature which determines if the entered number is really a SSCWXY or a 1+800 number for Access using Feature Group D Signaling.
This relation should be populated for domestic generics only.

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**Attribute:**
sscwxy
**Fullname:**
SSCWXY code
**Attribute Description:**
This is the SSCWXY as signaled in the forward number field of a 1+800 dialed AATOS or SDN/NRA call.
Also, this can be the first six digits of an AATLSOS call or an FTS NRA call.

SSCWXY can be any combination of digits, each [0-9].
If the is800bit attribute is DBYES, then this field will hold the first 6 digits of the 1+800 Access with FDG Signaling telephone number, otherwise this field will hold the entered SSCWXY number.

**Attribute:**
z
**Fullname:**
Z digit
**Attribute Description:**
This is the Z digit signaled in the forward number of the call.
If the is800bit attribute is DBYES, then this field will hold the 7th digit of the 1+800 Access with FGD Signaling telephone number, else it will contain the Z digit associated with the SSCWXY number.

**Attribute:**
inwnpa
**Fullname:**
INWATTS NPA.
**Attribute Description:**
NPA of the INWATTS/toll free number utilizing this feature.

**Attribute:**
servind
**Fullname:**
Service indicator
**Attribute Description:**
This is an indicator for whether the call is AATOS, SDN/NRA, or AATLSOS.

**Attribute:**
destidx
**Fullname:**
Destination index
**Attribute Description:**
Destination index used to route the call to a language-specific operator.

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**Attribute:**
fts
**Fullname:**
Federal Telecommunications Systems
**Attribute Description:**
Whether this SSCWXY,Z is an FTS NRA call.

**Attribute:**
label
**Fullname:**
Label
**Attribute Description:**
Label displayed at the operator position to indicate the call information. All values are valid, including blanks, special characters, and spaces.

**Attribute:**
measidx
**Fullname:**
Measurements index
**Attribute Description:**
Index into measurements data.

**Attribute:**
spare
**Fullname:**
Spare
**Attribute Description:**
Spare field for future use.

**Attribute:**
acqs
**Fullname:**
acqs
**Attribute Description:**
Indicates if hotel room number class of charge is allowed for AATLSOS calls.

**Attribute:**
paid
**Fullname:**
paid
**Attribute Description:**
Indicates if PAID or DDD class of charge is allowed for AATLSOS calls.

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**Attribute:**
is800bit
**Fullname:**
Is 800 bit
**Attribute Description:**
Indicates if the key is an 800 number.

**Attribute:**
quietheartrmt
**Fullname:**
Quiet Hear Treatment
**Attribute Description:**
This field is used for the Quiet Hear treatment eligibility parameter used to control the application of Quiet Hear based on the 800 Access Call Routing Number or 800 Access Number as defined in the OSPS Service Designation table.

**Attribute:**
audiologobrand
**Fullname:**
Audio Logo Branding
**Attribute Description:**
Quiet Hear treatment eligibility parameter used to control the application of Quiet Hear Audio Logo Branding based on the 800 Access Call Routing Number or 800 Access Number as defined in the OSPS Service Designation table.

**Attribute:**
tcsonpa
**Fullname:**
terminating code screening originating NPA
**Attribute Description:**
The Terminating Code Screening Originating NPA field is used as the originating NPA during TCS checks.
The TCS ONPA is specified per service type and has the following meanings:
blank - use the signaled originating NPA as the originating NPA during TCS checks
0 - no TCS checks apply
1-999 - use the specified TCS NPA as the originating NPA during TCS checks

**Attribute:**
autotrmt
**Fullname:**
Autotrmt
**Attribute Description:**
This boolean field indicates whether Automated Access

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treatment should be given to 1800 CALL ATT calls arriving from the 4ESS(TM).

**Attribute:**
autocdsu
**Fullname:**
Autocdsu
**Attribute Description:**
This boolean field indicates whether 1-800-CALLATT CDSU automated treatment should be given.

**Attribute:**
num_ext_rtg
**Fullname:**
External routing number
**Attribute Description:**
This attribute is used to specify what number the external routing number is.

**Attribute:**
elig_ext_rtg
**Fullname:**
External Routing Eligibility
**Attribute Description:**
This attribute is used to specify whether or not this call is eligible for external routing.

**Attribute:**
asaptreatment
**Fullname:**
Automated Service Access Prompting treatment indicator
**Attribute Description:**
This attribute is used to specify whether or not this call is eligible for Automated Service Access Prompting treatment

**Attribute:**
lang_code
**Fullname:**
language code
**Attribute Description:**
This attribute is used to indicate what language is being prompted by an associated number.

**Attribute:**
lc_alw
**Fullname:**
LAC/LMC Change Allowed

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**Attribute Description:**
This attribute is used to specify whether or not a calling customer is eligible to change the language

**Attribute:**
po_cc_id
**Fullname:**
Peel Out Calling Card ID
**Attribute Description:**
800 Peel Out Calling Card Identification. The null value is stored as a 0 in the relation.

**Attribute:**
oaff4
**Fullname:**
Spare4
**Attribute Description:**
Spare field for future use.

**Attribute:**
oaff5
**Fullname:**
Spare5
**Attribute Description:**
Spare field for future use.

**Attribute:**
oaff6
**Fullname:**
Spare6
**Attribute Description:**
Spare field for future use.

**Attribute:**
oaff7
**Fullname:**
Spare7
**Attribute Description:**
Spare field for future use.

**Attribute:**
oaff8
**Fullname:**
Spare8
**Attribute Description:**
Spare field for future use.

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**Attribute:**
oaff9
**Fullname:**
Spare9
**Attribute Description:**
Spare field for future use.

**Attribute:**
oaff10
**Fullname:**
Spare10
**Attribute Description:**
Spare field for future use.

**Attribute:**
oaff11
**Fullname:**
Spare11
**Attribute Description:**
Spare field for future use.

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# SF1_CF

## 1. Description

Special feature placeholder relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| application type | NULL |
| relation type | DBSTATIC |
| trigger function | FCsf1_cf |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
SF1_CF      relid = 2024  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     feat_id     DMMCC_FID    (ushort)  <--- key
     ksubrid     DMHEX8       (ushort: 8)  <--- key
 (a) ab1         DMBOOL       (enum: 1)
 (b) ab2         DMBOOL       (enum: 1)
 (c) ab3         DMBOOL       (enum: 1)
 (d) ab4         DMBOOL       (enum: 1)
 (e) ab5         DMBOOL       (enum: 1)
 (f) ab6         DMBOOL       (enum: 1)
 (g) ab7         DMBOOL       (enum: 1)
 (h) ab8         DMBOOL       (enum: 1)
     as1         DMHEX16      (ushort)
     as2         DMHEX16      (ushort)
     al1         DMHEX32      (ulong)
     al2         DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout SF1_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               | | | | | | | | |
  0 |            feat_id            |    ksubrid    |a|b|c|d|e|f|g|h|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              as1              |              as2              |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             al1                               |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                             al2                               |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLsf1_cf

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**Relation Description**
Special feature placeholder relation 1_CF.

This relation is a dummy placeholder relation. It is not to be used without permission from the special features spare resource administrator.

Multiple features may use this relation at one time. The subrelation ID key (ksubrid) must be used to distinguish tuples used by different features or tuples that mimic different regular relations.

The following features use this relation as follows:

```
ksubrid         feature/purpose
-------         ---------------
```

The following is a brief description of each feature:

```
FEATURE NAME
------------
(Description of feature)
.      .       .
.      .       .
.      .       .
FEATURE NAME
------------
(Description of feature)
```

**Attribute: feat_id**

**Fullname:** Feature id

**Attribute Description** Arbitrary unsigned short key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

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**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

**Attribute: as2**

**Fullname:** Arbitrary Unsigned Short Attribute 2

**Attribute Description** Arbitrary unsigned short attribute 2

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary Unsigned Long Attribute 1

**Attribute: al2**

**Fullname:** Arbitrary Unsigned Long Attribute 2

**Attribute Description** Arbitrary unsigned long attribute 2

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# SF1_LTM

## 1. Description

Special feature placeholder relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| application type | NULL |
| relation type | DBSTATIC |
| trigger function | FCsf1_ltm |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
SF1_LTM     relid = 2031  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
 (a) ltm_type    DMLTM_TYPE   (enum: 1)  <--- key
     lead_module  DMMODULE     (ushort: 8)  <--- key
     ltm_idx     DMLTM_IDX    (ulong: 16)  <--- key
     feat_id     DMFID        (ushort: 10)  <--- key
     ksubrid     DMHEX8       (ushort: 8)  <--- key
 (b) ab1         DMBOOL       (enum: 1)
 (c) ab2         DMBOOL       (enum: 1)
 (d) ab3         DMBOOL       (enum: 1)
 (e) ab4         DMBOOL       (enum: 1)
 (f) ab5         DMBOOL       (enum: 1)
 (g) ab6         DMBOOL       (enum: 1)
 (h) ab7         DMBOOL       (enum: 1)
 (i) ab8         DMBOOL       (enum: 1)
     ah1         DMHEX4       (ushort: 4)
     ah2         DMHEX4       (ushort: 4)
     ac1         DMHEX8       (ushort: 8)
     as1         DMHEX16      (ushort)
     as2         DMHEX16      (ushort)
     al1         DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout    SF1_LTM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | |               |                               |              |
  0 |a|  lead_module  |            ltm_idx            |**************|
    |---------------+---------------+---------------+---------------|
    |                 |           |               | | | | | | | | |
  4 |      feat_id    |***********|    ksubrid    |b|c|d|e|f|g|h|i|
    |---------------+---------------+---------------+---------------|
    |       |       |               |                               |
  8 |  ah1  |  ah2  |      ac1      |              as1              |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
```

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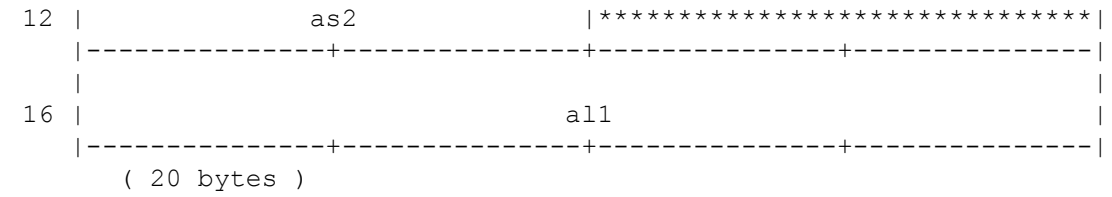


## 4. Population Rules for RLsf1_ltm

**Relation Description**
Special feature placeholder relation 1_LTM.

This relation is a dummy placeholder relation. It is not to be used without permission from the special features spare resource administrator.

Multiple features may use this relation at one time. The subrelation ID key (ksubrid) must be used to distinguish tuples used by different features or tuples that mimic different regular relations.

The following features use this relation as follows:

```
ksubrid         feature/purpose
-------         ---------------
```

The following is a brief description of each feature:

```
FEATURE NAME
------------
(Description of feature)
.      .       .
.      .       .
.      .       .
FEATURE NAME
------------
(Description of feature)
```

**Attribute: ltm_type**

**Fullname:** Logical Termination index type.

**Attribute Description** Logical Termination index type.

**Attribute: lead_module**

**Fullname:** lead module.

**Attribute Description** lead_module.

**Attribute: ltm_idx**

**Fullname:** Logical Termination Index.

**Attribute Description** Logical Termination index.

**Attribute: feat_id**

**Fullname:** Feature id

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**Attribute Description** Arbitrary unsigned short key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: ah1**

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**Fullname:** Arbitrary Unsigned 4-bit Attribute 1

**Attribute Description** Arbitrary unsigned 4-bit attribute 1

**Attribute: ah2**

**Fullname:** Arbitrary Unsigned 4-bit Attribute 2

**Attribute Description** Arbitrary unsigned 4-bit attribute 2

**Attribute: ac1**

**Fullname:** Arbitrary Unsigned Character Attribute 1

**Attribute Description** Arbitrary unsigned character attribute 1

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

**Attribute: as2**

**Fullname:** Arbitrary Unsigned Short Attribute 2

**Attribute Description** Arbitrary unsigned short attribute 2

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary Unsigned Long Attribute 1

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# SF1_OPTS

## 1. Description

Special feature placeholder relation 1_opts.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application type | RCMAP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
SF1_OPTS    relid = 2018  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     feat_id     DMMCC_FID    (ushort)  <--- key
     ksubrid     DMHEX8       (ushort: 8)  <--- key
 (a) ab1         DMBOOL       (enum: 1)
 (b) ab2         DMBOOL       (enum: 1)
 (c) ab3         DMBOOL       (enum: 1)
 (d) ab4         DMBOOL       (enum: 1)
 (e) ab5         DMBOOL       (enum: 1)
 (f) ab6         DMBOOL       (enum: 1)
 (g) ab7         DMBOOL       (enum: 1)
 (h) ab8         DMBOOL       (enum: 1)
     ah1         DMHEX4       (ushort: 4)
     ah2         DMHEX4       (ushort: 4)
     ac1         DMHEX8       (ushort: 8)
     as1         DMHEX16      (ushort)
     as2         DMHEX16      (ushort)
     as3         DMHEX16      (ushort)
     al1         DMHEX32      (ulong)
     al2         DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF1_OPTS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               | | | | | | | | |
  0 |            feat_id            |    ksubrid    |a|b|c|d|e|f|g|h|
    |---------------+---------------+---------------+---------------|
    |       |       |               |                               |
  4 |  ah1  |  ah2  |      ac1      |              as1              |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |              as2              |              as3              |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                             al1                               |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                             al2                               |
```

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```
|---------------+---------------+---------------+---------------|
   ( 20 bytes )
```

## 4. Population Rules for RLsf1_opts

**Relation Description**
Special feature placeholder relation 1_opts.

This relation is a dummy placeholder relation. It is not to be used without permission from the special features spare resource administrator.

Multiple features may use this relation at one time. The subrelation ID key (ksubrid) must be used to distinguish tuples used by different features or tuples that mimic different regular relations.

The following features use this relation as follows:

```
ksubrid         feature/purpose
-------         ---------------
```

The following is a brief description of each feature:

```
FEATURE NAME
------------
(Description of feature)
.     .      .
.     .      .
.     .      .
FEATURE NAME
------------
(Description of feature)
```

**Attribute: feat_id**

**Fullname:** Feature ID

**Attribute Description** feature id, arbitrary unsigned short key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

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**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: ah1**

**Fullname:** Arbitrary Unsigned 4-bit Attribute 1

**Attribute Description** Arbitrary unsigned 4-bit attribute 1

**Attribute: ah2**

**Fullname:** Arbitrary Unsigned 4-bit Attribute 2

**Attribute Description** Arbitrary unsigned 4-bit attribute 2

**Attribute: ac1**

**Fullname:** Arbitrary Unsigned character Attribute 1

**Attribute Description** Arbitrary unsigned character attribute 1

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

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**Attribute: as2**

**Fullname:** Arbitrary Unsigned Short Attribute 2

**Attribute Description** Arbitrary unsigned short attribute 2

**Attribute: as3**

**Fullname:** Arbitrary Unsigned Short Attribute 3

**Attribute Description** Arbitrary unsigned short attribute 3

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary Unsigned Long Attribute 1

**Attribute: al2**

**Fullname:** Arbitrary Unsigned Long Attribute 2

**Attribute Description** Arbitrary unsigned long attribute 2

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# SF1_PORT

## 1. Description

Special feature placeholder relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application type | RCMAP |
| relation type | DBSTATIC |
| trigger function | RTsf1_port |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
SF1_PORT    relid = 2037  DBSTATIC   DBACC_HASH  DBPRAM    LPFPFG  RCMAP
     lport       DMLPORT      (ushort: 16)  <--- key
 (a) lpt_type    DMLPT_TYPE   (enum: 2)  <--- key
     feat_id     DMMCC_FID    (ushort)  <--- key
     ksubrid     DMHEX8       (ushort: 8)  <--- key
 (b) ab1         DMBOOL       (enum: 1)
 (c) ab2         DMBOOL       (enum: 1)
 (d) ab3         DMBOOL       (enum: 1)
 (e) ab4         DMBOOL       (enum: 1)
 (f) ab5         DMBOOL       (enum: 1)
 (g) ab6         DMBOOL       (enum: 1)
 (h) ab7         DMBOOL       (enum: 1)
 (i) ab8         DMBOOL       (enum: 1)
     as1         DMHEX16      (ushort)
     al1         DMHEX32      (ulong)
     al2         DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF1_PORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |   |                           |
  0 |              lport            | a |***************************|
    |---------------+---------------+---------------+---------------|
    |                               |               | | | | | | | | |
  4 |             feat_id           |    ksubrid    |b|c|d|e|f|g|h|i|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |               as1             |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                             al1                               |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                             al2                               |
```

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```
|---------------+---------------+---------------+---------------|
   ( 20 bytes )
```

## 4. Population Rules for RLsf1_port

**Relation Description**
Special feature placeholder relation 1_PORT.

This relation is a dummy placeholder relation. It is not to be used without permission from the special features spare resource administrator.

Multiple features may use this relation at one time. The subrelation ID key (ksubrid) must be used to distinguish tuples used by different features or tuples that mimic different regular relations.

The following features use this relation as follows:

```
ksubrid         feature/purpose
-------         ---------------
```

The following is a brief description of each feature:

```
FEATURE NAME
------------
(Description of feature)
.     .      .
.     .      .
.     .      .
FEATURE NAME
------------
(Description of feature)
```

**Attribute: lport**

**Fullname:** Logical Port

**Attribute Description** Logical port

**Attribute: lpt_type**

**Fullname:** Logical Port Type

**Attribute Description** Logical port type

**Attribute: feat_id**

**Fullname:** Feature Identification

**Attribute Description** Identifies the constructed feature id.

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

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**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary Unsigned Long Attribute 1

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**Attribute: al2**

**Fullname:** Arbitrary Unsigned Long Attribute 2

**Attribute Description** Arbitrary unsigned long attribute 2

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# SF2_CF

## 1. Description

Special feature placeholder relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| application type | RCMAP |
| relation type | DBSTATIC |
| trigger function | RTsf2_cf |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
SF2_CF      relid = 2025  DBSTATIC   DBACC_HASH  DBPRAM    LPFR    RCMAP
     feat_id     DMMCC_FID    (ushort)  <--- key
     ksubrid     DMHEX8       (ushort: 8)  <--- key
 (a) ab1         DMBOOL       (enum: 1)
 (b) ab2         DMBOOL       (enum: 1)
 (c) ab3         DMBOOL       (enum: 1)
 (d) ab4         DMBOOL       (enum: 1)
 (e) ab5         DMBOOL       (enum: 1)
 (f) ab6         DMBOOL       (enum: 1)
 (g) ab7         DMBOOL       (enum: 1)
 (h) ab8         DMBOOL       (enum: 1)
     as1         DMHEX16      (ushort)
     as2         DMHEX16      (ushort)
     al1         DMHEX32      (ulong)
     al2         DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout SF2_CF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               | | | | | | | | |
  0 |            feat_id            |    ksubrid    |a|b|c|d|e|f|g|h|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              as1              |              as2              |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             al1                               |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                             al2                               |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLsf2_cf

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**Relation Description**
Special feature placeholder relation 2_CF.

This relation is a dummy placeholder relation. It is not to be used without permission from the special features spare resource administrator.

Multiple features may use this relation at one time. The subrelation ID key (ksubrid) must be used to distinguish tuples used by different features or tuples that mimic different regular relations.

The following features use this relation as follows:

```
ksubrid         feature/purpose
-------         ---------------
The following is a brief description of each feature:

FEATURE NAME
------------
(Description of feature)
.      .       .
.      .       .
.      .       .
FEATURE NAME
------------
(Description of feature)
```

**Attribute: feat_id**

**Fullname:** Feature id

**Attribute Description** Arbitrary unsigned short key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

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**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

**Attribute: as2**

**Fullname:** Arbitrary Unsigned Short Attribute 2

**Attribute Description** Arbitrary unsigned short attribute 2

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary Unsigned Long Attribute 1

**Attribute: al2**

**Fullname:** Arbitrary Unsigned Long Attribute 2

**Attribute Description** Arbitrary unsigned long attribute 2

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# SF2_LTM

## 1. Description

Special feature placeholder relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| application type | NULL |
| relation type | DBSTATIC |
| trigger function | FCsf2_ltm |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
SF2_LTM     relid = 2032  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
 (a) ltm_type    DMLTM_TYPE   (enum: 1)  <--- key
     lead_module  DMMODULE     (ushort: 8)  <--- key
     ltm_idx     DMLTM_IDX    (ulong: 16)  <--- key
     feat_id     DMFID        (ushort: 10)  <--- key
     ksubrid     DMHEX8       (ushort: 8)  <--- key
 (b) ab1         DMBOOL       (enum: 1)
 (c) ab2         DMBOOL       (enum: 1)
 (d) ab3         DMBOOL       (enum: 1)
 (e) ab4         DMBOOL       (enum: 1)
 (f) ab5         DMBOOL       (enum: 1)
 (g) ab6         DMBOOL       (enum: 1)
 (h) ab7         DMBOOL       (enum: 1)
 (i) ab8         DMBOOL       (enum: 1)
     ah1         DMHEX4       (ushort: 4)
     ah2         DMHEX4       (ushort: 4)
     ac1         DMHEX8       (ushort: 8)
     as1         DMHEX16      (ushort)
     as2         DMHEX16      (ushort)
     al1         DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout    SF2_LTM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | |               |                               |             |
  0 |a|  lead_module  |            ltm_idx            |*************|
    |---------------+---------------+---------------+---------------|
    |                 |           |               | | | | | | | | |
  4 |      feat_id    |***********|    ksubrid    |b|c|d|e|f|g|h|i|
    |---------------+---------------+---------------+---------------|
    |       |       |               |                               |
  8 |  ah1  |  ah2  |      ac1      |              as1              |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
```

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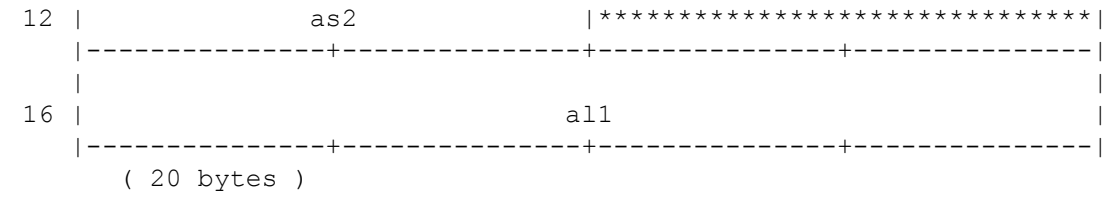


## 4. Population Rules for RLsf2_ltm

**Relation Description**
Special feature placeholder relation 2_LTM.

This relation is a dummy placeholder relation. It is not to be used without permission from the special features spare resource administrator.

Multiple features may use this relation at one time. The subrelation ID key (ksubrid) must be used to distinguish tuples used by different features or tuples that mimic different regular relations.

The following features use this relation as follows:

```
ksubrid         feature/purpose
-------         ---------------
The following is a brief description of each feature:

FEATURE NAME
------------
(Description of feature)
.     .      .
.     .      .
.     .      .
FEATURE NAME
------------
(Description of feature)
```

**Attribute: ltm_type**

**Fullname:** Logical Termination index type.

**Attribute Description** Logical Termination index type.

**Attribute: lead_module**

**Fullname:** lead module.

**Attribute Description** lead_module.

**Attribute: ltm_idx**

**Fullname:** Logical Termination Index.

**Attribute Description** Logical Termination index.

**Attribute: feat_id**

**Fullname:** Feature id

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**Attribute Description** Arbitrary unsigned short key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: ah1**

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**Fullname:** Arbitrary Unsigned 4-bit Attribute 1

**Attribute Description** Arbitrary unsigned 4-bit attribute 1

**Attribute: ah2**

**Fullname:** Arbitrary Unsigned 4-bit Attribute 2

**Attribute Description** Arbitrary unsigned 4-bit attribute 2

**Attribute: ac1**

**Fullname:** Arbitrary Unsigned Character Attribute 1

**Attribute Description** Arbitrary unsigned character attribute 1

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

**Attribute: as2**

**Fullname:** Arbitrary Unsigned Short Attribute 2

**Attribute Description** Arbitrary unsigned short attribute 2

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary Unsigned Long Attribute 1

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# SF2_PORT

## 1. Description

Special feature placeholder relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| application type | NULL |
| relation type | DBSTATIC |
| trigger function | FCsf2_port |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
SF2_PORT    relid = 2044  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     lport       DMLPORT      (ushort: 16)  <--- key
 (a) lpt_type    DMLPT_TYPE   (enum: 2)  <--- key
     feat_id     DMMCC_FID    (ushort)  <--- key
     ksubrid     DMHEX8       (ushort: 8)  <--- key
 (b) ab1         DMBOOL       (enum: 1)
 (c) ab2         DMBOOL       (enum: 1)
 (d) ab3         DMBOOL       (enum: 1)
 (e) ab4         DMBOOL       (enum: 1)
 (f) ab5         DMBOOL       (enum: 1)
 (g) ab6         DMBOOL       (enum: 1)
 (h) ab7         DMBOOL       (enum: 1)
 (i) ab8         DMBOOL       (enum: 1)
     as1         DMHEX16      (ushort)
     al1         DMHEX32      (ulong)
     al2         DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF2_PORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |   |                           |
  0 |              lport            | a |***************************|
    |---------------+---------------+---------------+---------------|
    |                               |               | | | | | | | | |
  4 |             feat_id           |    ksubrid    |b|c|d|e|f|g|h|i|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |               as1             |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                             al1                               |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                             al2                               |
```

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```
|---------------+---------------+---------------+---------------|
   ( 20 bytes )
```

## 4. Population Rules for RLsf2_port

**Relation Description**
Special feature placeholder relation 2_PORT.

This relation is a dummy placeholder relation. It is not to be used without permission from the special features spare resource administrator.

Multiple features may use this relation at one time. The subrelation ID key (ksubrid) must be used to distinguish tuples used by different features or tuples that mimic different regular relations.

The following features use this relation as follows:

```
ksubrid         feature/purpose
-------         ---------------
The following is a brief description of each feature:

FEATURE NAME
------------
(Description of feature)
.     .      .
.     .      .
.     .      .
FEATURE NAME
------------
(Description of feature)
```

**Attribute: lport**

**Fullname:** Logical Port

**Attribute Description** Logical port

**Attribute: lpt_type**

**Fullname:** Logical Port Type

**Attribute Description** Logical port type

**Attribute: feat_id**

**Fullname:** Feature Identification

**Attribute Description** Identifies the constructed feature id.

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

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**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary Unsigned Long Attribute 1

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**Attribute: al2**

**Fullname:** Arbitrary Unsigned Long Attribute 2

**Attribute Description** Arbitrary unsigned long attribute 2

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# SF3_LTM

## 1. Description

Special feature placeholder relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application type | RCMAP |
| relation type | DBSTATIC |
| trigger function | RTsf3_ltm |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
SF3_LTM     relid = 2034  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
 (a) ltm_type    DMLTM_TYPE   (enum: 1)  <--- key
     lead_module  DMMODULE     (ushort: 8)  <--- key
     ltm_idx     DMLTM_IDX    (ulong: 16)  <--- key
     feat_id     DMFID        (ushort: 10)  <--- key
     ksubrid     DMHEX8       (ushort: 8)  <--- key
 (b) ab1         DMBOOL       (enum: 1)
 (c) ab2         DMBOOL       (enum: 1)
 (d) ab3         DMBOOL       (enum: 1)
 (e) ab4         DMBOOL       (enum: 1)
 (f) ab5         DMBOOL       (enum: 1)
 (g) ab6         DMBOOL       (enum: 1)
 (h) ab7         DMBOOL       (enum: 1)
 (i) ab8         DMBOOL       (enum: 1)
     ah1         DMHEX4       (ushort: 4)
     ah2         DMHEX4       (ushort: 4)
     ac1         DMHEX8       (ushort: 8)
     as1         DMHEX16      (ushort)
     as2         DMHEX16      (ushort)
     al1         DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout    SF3_LTM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | |               |                               |              |
  0 |a|  lead_module  |            ltm_idx            |**************|
    |---------------+---------------+---------------+---------------|
    |                 |           |               | | | | | | | | |
  4 |      feat_id    |***********|    ksubrid    |b|c|d|e|f|g|h|i|
    |---------------+---------------+---------------+---------------|
    |       |       |               |                               |
  8 |  ah1  |  ah2  |      ac1      |              as1              |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
```

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```
 12 |              as2              |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                              al1                              |
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population Rules for RLsf3_ltm

**Relation Description**
Special feature placeholder relation 3_LTM.

This relation is a dummy placeholder relation. It is not to be used without permission from the special features spare resource administrator.

Multiple features may use this relation at one time. The subrelation ID key (ksubrid) must be used to distinguish tuples used by different features or tuples that mimic different regular relations.

The following features use this relation as follows:

```
ksubrid         feature/purpose
-------         ---------------
The following is a brief description of each feature:

FEATURE NAME
------------
(Description of feature)
.      .       .
.      .       .
.      .       .
FEATURE NAME
------------
(Description of feature)
```

**Attribute: ltm_type**

**Fullname:** Logical Termination index type.

**Attribute Description** Logical Termination index type.

**Attribute: lead_module**

**Fullname:** lead module.

**Attribute Description** lead_module.

**Attribute: ltm_idx**

**Fullname:** Logical Termination Index.

**Attribute Description** Logical Termination index.

**Attribute: feat_id**

**Fullname:** Feature id

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**Attribute Description** Arbitrary unsigned short key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: ah1**

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**Fullname:** Arbitrary Unsigned 4-bit Attribute 1

**Attribute Description** Arbitrary unsigned 4-bit attribute 1

**Attribute: ah2**

**Fullname:** Arbitrary Unsigned 4-bit Attribute 2

**Attribute Description** Arbitrary unsigned 4-bit attribute 2

**Attribute: ac1**

**Fullname:** Arbitrary Unsigned Character Attribute 1

**Attribute Description** Arbitrary unsigned character attribute 1

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

**Attribute: as2**

**Fullname:** Arbitrary Unsigned Short Attribute 2

**Attribute Description** Arbitrary unsigned short attribute 2

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary Unsigned Long Attribute 1

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# SF3_PORT

## 1. Description

Special feature placeholder relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application type | RCMAP |
| relation type | DBSTATIC |
| trigger function | RTsf3_port |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
SF3_PORT    relid = 2047  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     lport       DMLPORT      (ushort: 16)  <--- key
 (a) lpt_type    DMLPT_TYPE   (enum: 2)  <--- key
     feat_id     DMMCC_FID    (ushort)  <--- key
     ksubrid     DMHEX8       (ushort: 8)  <--- key
 (b) ab1         DMBOOL       (enum: 1)
 (c) ab2         DMBOOL       (enum: 1)
 (d) ab3         DMBOOL       (enum: 1)
 (e) ab4         DMBOOL       (enum: 1)
 (f) ab5         DMBOOL       (enum: 1)
 (g) ab6         DMBOOL       (enum: 1)
 (h) ab7         DMBOOL       (enum: 1)
 (i) ab8         DMBOOL       (enum: 1)
     as1         DMHEX16      (ushort)
     al1         DMHEX32      (ulong)
     al2         DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF3_PORT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |   |                           |
  0 |              lport            | a |***************************|
    |---------------+---------------+---------------+---------------|
    |                               |               | | | | | | | | |
  4 |             feat_id           |    ksubrid    |b|c|d|e|f|g|h|i|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |               as1             |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                             al1                               |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                             al2                               |
```

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```
|---------------+---------------+---------------+---------------|
   ( 20 bytes )
```

## 4. Population Rules for RLsf3_port

**Relation Description**
Special feature placeholder relation 3_PORT.

This relation is a dummy placeholder relation. It is not to be used without permission from the special features spare resource administrator.

Multiple features may use this relation at one time. The subrelation ID key (ksubrid) must be used to distinguish tuples used by different features or tuples that mimic different regular relations.

The following features use this relation as follows:

```
ksubrid         feature/purpose
-------         ---------------
The following is a brief description of each feature:

FEATURE NAME
------------
(Description of feature)
.     .      .
.     .      .
.     .      .
FEATURE NAME
------------
(Description of feature)
```

**Attribute: lport**

**Fullname:** Logical Port

**Attribute Description** Logical port

**Attribute: lpt_type**

**Fullname:** Logical Port Type

**Attribute Description** Logical port type

**Attribute: feat_id**

**Fullname:** Feature Identification

**Attribute Description** Identifies the constructed feature id.

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

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**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary Unsigned Long Attribute 1

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**Attribute: al2**

**Fullname:** Arbitrary Unsigned Long Attribute 2

**Attribute Description** Arbitrary unsigned long attribute 2

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# SF10

## 1. Description

Special Feature Placeholder Relation 10.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| application type | GCRTG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| trigger function | RTtrsf10 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
SF10        relid = 1422  DBSTATIC   DBACC_HASH  DBPRAM    LPFR    GCRTG
     ks           DMHEX16      (ushort)     <--- key
     ksubrid      DMHEX8       (ushort: 8)     <--- key
  (a) ab1         DMBOOL       (enum: 1)
  (b) ab2         DMBOOL       (enum: 1)
  (c) ab3         DMBOOL       (enum: 1)
  (d) ab4         DMBOOL       (enum: 1)
  (e) ab5         DMBOOL       (enum: 1)
  (f) ab6         DMBOOL       (enum: 1)
  (g) ab7         DMBOOL       (enum: 1)
  (h) ab8         DMBOOL       (enum: 1)
     as1          DMHEX16      (ushort)
     as2          DMHEX16      (ushort)
     al1          DMHEX32      (ulong)
     al2          DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF10
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               | | | | | | | | |
  0 |                ks             |    ksubrid    |a|b|c|d|e|f|g|h|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              as1              |              as2              |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |                             al1                               |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |                             al2                               |
    |---------------+---------------+---------------+---------------|
```

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```
       ( 16 bytes )
```

## 4. Population Rules for RLsf10

**Relation Description**
Special feature placeholder relation 10

This relation is a dummy placeholder relation.

Multiple features may use this relation at one time. The subrelation ID key (ksubrid) must be used to distinguish tuples used by different features or tuples that mimic different regular relations.

The following features use this relation as follows:

```
ksubrid         feature/purpose
-------         ---------------
The following is a brief description of each feature:

FEATURE NAME
------------
(Description of feature)
.     .      .
.     .      .
.     .      .
FEATURE NAME
------------
(Description of feature)
```

**Attribute: ks**

**Fullname:** Arbitrary unsigned short key

**Attribute Description** Arbitrary unsigned short key.

**Attribute: ksubrid**

**Fullname:** Subrelation identifier key

**Attribute Description** Subrelation identifier key.

**Attribute: ab1**

**Fullname:** Arbitrary bit attribute 1

**Attribute Description** Arbitrary bit attribute 1.

**Attribute: ab2**

**Fullname:** Arbitrary bit attribute 2

**Attribute Description** Arbitrary bit attribute 2.

**Attribute: ab3**

**Fullname:** Arbitrary bit attribute 3

**Attribute Description** Arbitrary bit attribute 3.

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**Attribute: ab4**

**Fullname:** Arbitrary bit attribute 4

**Attribute Description** Arbitrary bit attribute 4.

**Attribute: ab5**

**Fullname:** Arbitrary bit attribute 5

**Attribute Description** Arbitrary bit attribute 5.

**Attribute: ab6**

**Fullname:** Arbitrary bit attribute 6.

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary bit attribute 7

**Attribute Description** Arbitrary bit attribute 7.

**Attribute: ab8**

**Fullname:** Arbitrary bit attribute 8

**Attribute Description** Arbitrary bit attribute 8.

**Attribute: as1**

**Fullname:** Arbitrary unsigned short attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

When ksubrid = 2, as1 is used for Flexible ANI Enhancements Special Feature, this field stores the SCRIDX associated ANI II digits.

**Attribute: as2**

**Fullname:** Arbitrary unsigned short attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1.

**Attribute: al1**

**Fullname:** Arbitrary unsigned long attribute 1

**Attribute Description** Arbitrary unsigned long attribute 1.

**Attribute: al2**

**Fullname:** Arbitrary unsigned long attribute 2

**Attribute Description** Arbitrary unsigned long attribute 2.

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# SF11

## 1. Description

Special feature placeholder relation 11.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application type | GCRTG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| trigger function | RTtrsf11 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
SF11        relid = 1423  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    GCRTG
     ks           DMHEX16      (ushort)  <--- key
     ksubrid      DMHEX8       (ushort: 8)  <--- key
 (a) ab1          DMBOOL       (enum: 1)
 (b) ab2          DMBOOL       (enum: 1)
 (c) ab3          DMBOOL       (enum: 1)
 (d) ab4          DMBOOL       (enum: 1)
 (e) ab5          DMBOOL       (enum: 1)
 (f) ab6          DMBOOL       (enum: 1)
 (g) ab7          DMBOOL       (enum: 1)
 (h) ab8          DMBOOL       (enum: 1)
     as1          DMHEX16      (ushort)
     as2          DMHEX16      (ushort)
     al1          DMHEX32      (ulong)
     al2          DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF11
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               | | | | | | | | |
  0 |                ks             |    ksubrid    |a|b|c|d|e|f|g|h|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              as1              |              as2              |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |                             al1                               |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |                             al2                               |
    |---------------+---------------+---------------+---------------|
```

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```
( 16 bytes )
```

## 4. Population Rules for RLsf11

**Relation Description**
Special feature placeholder relation 11.

**Attribute: ks**

**Fullname:** Arbitrary Unsigned Short Key

**Attribute Description** Arbitrary unsigned short key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

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**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

**Attribute: as2**

**Fullname:** Arbitrary Unsigned Short Attribute 2

**Attribute Description** Arbitrary unsigned short attribute 2

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary Unsigned Long Attribute 1

**Attribute: al2**

**Fullname:** Arbitrary Unsigned Long Attribute 2

**Attribute Description** Arbitrary unsigned long attribute 2

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# SF12

## 1. Description

Special feature placeholder relation 12.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application type | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| trigger function | FCtrsf12 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
SF12        relid = 1424  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     ks           DMHEX16      (ushort)  <--- key
     ksubrid      DMHEX8       (ushort: 8)  <--- key
 (a) ab1          DMBOOL       (enum: 1)
 (b) ab2          DMBOOL       (enum: 1)
 (c) ab3          DMBOOL       (enum: 1)
 (d) ab4          DMBOOL       (enum: 1)
 (e) ab5          DMBOOL       (enum: 1)
 (f) ab6          DMBOOL       (enum: 1)
 (g) ab7          DMBOOL       (enum: 1)
 (h) ab8          DMBOOL       (enum: 1)
     as1          DMHEX16      (ushort)
     as2          DMHEX16      (ushort)
     al1          DMHEX32      (ulong)
     al2          DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF12
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               | | | | | | | | |
  0 |                ks             |    ksubrid    |a|b|c|d|e|f|g|h|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              as1              |              as2              |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |                             al1                               |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |                             al2                               |
    |---------------+---------------+---------------+---------------|
```

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```
( 16 bytes )
```

## 4. Population Rules for RLsf12

**Relation Description**
Special feature placeholder relation 12.

This relation is a dummy placeholder relation. It is not to be used without permission from the 5EX Special Features project.

This relation's primary purpose is to provide additional storage when all storage has been used in an existing base relation with the same key set. For example, this relation could be used to store information that one would normally expect to find in RLmwcf, RLcf_cf, RLfc_coinchg, RLarcf, or RLdaprlfnl. Multiple features may use this relation at one time. The subrelation ID key, ksubrid, may be used to distinguish tuples used by different features or tuples that mimic different regular relations.

For this relation, the following standard is currently being used:

```
ksubrid         purpose
-------         ------
```

**Attribute: ks**

**Fullname:** Arbitrary Unsigned Short Key

**Attribute Description** Arbitrary unsigned short key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

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**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: as1**

**Fullname:** Arbitrary unsigned short attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

**Attribute: as2**

**Fullname:** Arbitrary Unsigned Short Attribute 2

**Attribute Description** Arbitrary unsigned short attribute 2

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary Unsigned Long Attribute 1

**Attribute: al2**

**Fullname:** Arbitrary Unsigned Long Attribute 2

**Attribute Description** Arbitrary unsigned long attribute 2

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# SF13

## 1. Description

This is the special feature placeholder relation 13.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| expected number of tuples | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| application type | NULL |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| trigger function | FCtrsf13 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
SF13        relid = 1425  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL


    ks          DMHEX16      (ushort)  <--- key
    ksubrid     DMHEX8       (ushort: 8)       <--- key
 (a) ab1        DMBOOL       (enum: 1)
 (b) ab2        DMBOOL       (enum: 1)
 (c) ab3        DMBOOL       (enum: 1)
 (d) ab4        DMBOOL       (enum: 1)
 (e) ab5        DMBOOL       (enum: 1)
 (f) ab6        DMBOOL       (enum: 1)
 (g) ab7        DMBOOL       (enum: 1)
 (h) ab8        DMBOOL       (enum: 1)
    as1         DMHEX16      (ushort)
    as2         DMHEX16      (ushort)
    al1         DMHEX32      (ulong)
    al2         DMHEX32      (ulong)
        User, Compacted and Stored Tuple Layout   SF13
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |               | | | | | | | | |
 0 |               ks              |    ksubrid    |a|b|c|d|e|f|g|h|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |              as1              |              as2              |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |                             al1                               |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
```

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```
 12 |                              al2                                |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population rules for RLsf13

### Relation Description

Special Feature Placeholder Relation 13

This relation is a dummy placeholder relation. It is not to be used without permission from the Special Features Department--Dept. 55663.

This relation's primary purpose is to provide additional storage when all storage has been used in an existing base relation with the same key set. For example, this relation could be used to store information that one would normally expect to find in RLmwcf, RLcf_cf, RLfc_coinchg, RLarcf, or RLdaprlfnl. Multiple features may use this relation at one time. The subrelation ID key, ksubrid, may be used to distinguish tuples used by different features or tuples that mimic different regular relations.

For this relation, the following standard is currently being used:

| ksubrid | purpose |
|---|---|

**Attribute:**
ks
**Fullname:**
Arbitrary Unsigned Short Key
**Attribute Description:**
Arbitrary unsigned short key

**Attribute:**
ksubrid
**Fullname:**
Subrelation Identifier Key
**Attribute Description:**
Subrelation identifier key

**Attribute:**
ab1
**Fullname:**
Arbitrary Bit Attribute 1
**Attribute Description:**
Arbitrary bit attribute 1

**Attribute:**
ab2

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**Fullname:**
Arbitrary Bit Attribute 2
**Attribute Description:**
Arbitrary bit attribute 2

**Attribute:**
ab3
**Fullname:**
Arbitrary Bit Attribute 3
**Attribute Description:**
Arbitrary bit attribute 3

**Attribute:**
ab4
**Fullname:**
Arbitrary Bit Attribute 4
**Attribute Description:**
Arbitrary Bit Attribute 4

**Attribute:**
ab5
**Fullname:**
Arbitrary Bit Attribute 5
**Attribute Description:**
Arbitrary Bit Attribute 5

**Attribute:**
ab6
**Fullname:**
Arbitrary Bit Attribute 6
**Attribute Description:**
Arbitrary bit attribute 6

**Attribute:**
ab7
**Fullname:**
Arbitrary Bit Attribute 7
**Attribute Description:**
Arbitrary bit attribute 7

**Attribute:**
ab8
**Fullname:**
Arbitrary Bit Attribute 8
**Attribute Description:**
Arbitrary bit attribute 8

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**Attribute:**
as1
**Fullname:**
Arbitrary Unsigned Short Attribute 1
**Attribute Description:**
Arbitrary unsigned short attribute 1

**Attribute:**
as2
**Fullname:**
Arbitrary Unsigned Short Attribute 2
**Attribute Description:**
Arbitrary unsigned short attribute 2

**Attribute:**
al1
**Fullname:**
Arbitrary Unsigned Long Attribute 1
**Attribute Description:**
Arbitrary Unsigned Long Attribute 1

**Attribute:**
al2
**Fullname:**
Arbitrary Unsigned Long Attribute 2
**Attribute Description:**
Arbitrary unsigned long attribute 2

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# SF14

## 1. Description

This relation is a dummy place holder relation. Special Feature Placeholder Relation 14.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| application type | NULL |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| trigger function | FCtrsf14 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
SF14        relid = 1426  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     ks           DMHEX16      (ushort) <--- key
     ksubrid      DMHEX8       (ushort: 8) <--- key
  (a) ab1         DMBOOL       (enum: 1)
  (b) ab2         DMBOOL       (enum: 1)
  (c) ab3         DMBOOL       (enum: 1)
  (d) ab4         DMBOOL       (enum: 1)
  (e) ab5         DMBOOL       (enum: 1)
  (f) ab6         DMBOOL       (enum: 1)
  (g) ab7         DMBOOL       (enum: 1)
  (h) ab8         DMBOOL       (enum: 1)
     as1          DMHEX16      (ushort)
     as2          DMHEX16      (ushort)
     al1          DMHEX32      (ulong)
     al2          DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF14
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               | | | | | | | | |
  0 |                ks             |    ksubrid    |a|b|c|d|e|f|g|h|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              as1              |              as2              |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |                             al1                               |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |                             al2                               |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

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## 4. Population rules for RLsf14

### Relation Description

Special Feature Placeholder Relation 14
This relation is a dummy placeholder relation. It is not to be used without permission from the Special Features Department--Dept. 55663. Multiple features may use this relation at one time. The subrelation ID key (ksubrid) must be used to distinguish tuples used by different features or tuples that mimic different regular relations. This relation is currently only used by the PIDB Growth Control Special Feature (ksubrid = 0).

The following features use this relation as follows:

| ksubrid | feature/purpose |
|---|---|
| 0 | PIDB Growth Control Special Feature. The as1 field is used to indicate the maximum number of PIDBs that the IDCU can have. The ks field is used to indicate the IDCU unit number. |

The following is a brief description of each feature:

PIDB GROWTH CONTROL
---

The PIDB Growth Control Special Feature provides a mechanism to enforce a pricing restructure for the IDCU. This feature will limit the number of PIDBs that an IDCU can have based upon how many PIDBs have been purchased.

**Attribute:**
ks
**Fullname:**
Arbitrary Unsigned Short Key
**Attribute Description:**
Arbitrary unsigned short key
When ksubrid = 0, this relation is being used to support the PIDB Growth Control Special Feature. The ks attribute in this relation is the IDCU number.

**Attribute:**
ksubrid
**Fullname:**
Subrelation Identifier Key
**Attribute Description:**
Subrelation identifier key
For ksubrid = 0: PIDB Growth Control Special Feature.
See the relation description section for details.

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**Attribute:**
ab1
**Fullname:**
Arbitrary Bit Attribute 1
**Attribute Description:**
Arbitrary bit attribute 1

**Attribute:**
ab2
**Fullname:**
Arbitrary Bit Attribute 2
**Attribute Description:**
Arbitrary bit attribute 2

**Attribute:**
ab3
**Fullname:**
Arbitrary Bit Attribute 3
**Attribute Description:**
Arbitrary bit attribute 3

**Attribute:**
ab4
**Fullname:**
Arbitrary Bit Attribute 4
**Attribute Description:**
Arbitrary bit attribute 4

**Attribute:**
ab5
**Fullname:**
Arbitrary Bit Attribute 5
**Attribute Description:**
Arbitrary bit attribute 5

**Attribute:**
ab6
**Fullname:**
Arbitrary Bit Attribute 6
**Attribute Description:**
Arbitrary Bit Attribute 6

**Attribute:**
ab7
**Fullname:**
Arbitrary Bit Attribute 7

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**Attribute Description:**
Arbitrary bit attribute 7

**Attribute:**
ab8
**Fullname:**
Arbitrary Bit Attribute 8
**Attribute Description:**
Arbitrary bit attribute 8

**Attribute:**
as1
**Fullname:**
Arbitrary Unsigned Short Attribute 1
**Attribute Description:**
Arbitrary unsigned short attribute 1
When ksubrid = 0, as1 is being used for the PIDB Growth Control Special Feature and will store the PIDB limit for the particular IDCU given in the key field, ks.

**Attribute:**
as2
**Fullname:**
Arbitrary Unsigned Short Attribute 2
**Attribute Description:**
Arbitrary unsigned short attribute 2

**Attribute:**
al1
**Fullname:**
Arbitrary Unsigned Long Attribute 1
**Attribute Description:**
Arbitrary Unsigned Long Attribute 1

**Attribute:**
al2
**Fullname:**
Arbitrary Unsigned Long Attribute 2
**Attribute Description:**
Arbitrary unsigned long attribute 2

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# SF16

## 1. Description

Special feature placeholder relation 16.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBDISK |
| distribution | DO |
| application type | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 2048 |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
SF16        relid = 1428  DBSTATIC   DBACC_HASH  DBDISK    DO      DDBM
     ks           DMHEX16      (ushort)  <--- key
     ksubrid      DMHEX8       (ushort: 8)  <--- key
 (a) ab1          DMBOOL       (enum: 1)
 (b) ab2          DMBOOL       (enum: 1)
 (c) ab3          DMBOOL       (enum: 1)
 (d) ab4          DMBOOL       (enum: 1)
 (e) ab5          DMBOOL       (enum: 1)
 (f) ab6          DMBOOL       (enum: 1)
 (g) ab7          DMBOOL       (enum: 1)
 (h) ab8          DMBOOL       (enum: 1)
     as1          DMHEX16      (ushort)
     as2          DMHEX16      (ushort)
     al1          DMHEX32      (ulong)
     al2          DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF16
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               | | | | | | | | |
  0 |                ks             |    ksubrid    |a|b|c|d|e|f|g|h|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              as1              |              as2              |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |                             al1                               |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |                             al2                               |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLsf16

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**Relation Description**
Special feature placeholder relation 16.

This relation is a dummy placeholder relation.

**Attribute: ks**

**Fullname:** Arbitrary Unsigned Short Key

**Attribute Description** Arbitrary unsigned short key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

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**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: as1**

**Fullname:** Arbitrary unsigned short attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

**Attribute: as2**

**Fullname:** Arbitrary Unsigned Short Attribute 2

**Attribute Description** Arbitrary unsigned short attribute 2

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary Unsigned Long Attribute 1

**Attribute: al2**

**Fullname:** Arbitrary Unsigned Long Attribute 2

**Attribute Description** Arbitrary unsigned long attribute 2

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# SF17

## 1. Description

Special feature placeholder relation 17.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application type | CCS |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
SF17        relid = 2022  DBSTATIC   DBACC_HASH  DBPRAM    LP      CCS
     ks           DMHEX16      (ushort)  <--- key
     ksubrid      DMHEX8       (ushort: 8)  <--- key
 (a) ab1          DMBOOL       (enum: 1)
 (b) ab2          DMBOOL       (enum: 1)
 (c) ab3          DMBOOL       (enum: 1)
 (d) ab4          DMBOOL       (enum: 1)
 (e) ab5          DMBOOL       (enum: 1)
 (f) ab6          DMBOOL       (enum: 1)
 (g) ab7          DMBOOL       (enum: 1)
 (h) ab8          DMBOOL       (enum: 1)
     as1          DMHEX16      (ushort)
     as2          DMHEX16      (ushort)
     al1          DMHEX32      (ulong)
     al2          DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF17
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               | | | | | | | | |
  0 |                ks             |    ksubrid    |a|b|c|d|e|f|g|h|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              as1              |              as2              |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |                             al1                               |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |                             al2                               |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLsf17

**Relation Description**
Special feature placeholder relation 17.

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This relation is a dummy placeholder relation. It is not to be used without permission from the special features spare resource administrator.

Multiple features may use this relation at one time. The subrelation ID key (ksubrid) must be used to distinguish tuples used by different features or tuples that mimic different regular relations.

The following features use this relation as follows:

```
ksubrid         feature/purpose
-------         ---------------
```

The following is a brief description of each feature:

```
FEATURE NAME
------------
(Description of feature)
.     .      .
.     .      .
.     .      .
FEATURE NAME
------------
(Description of feature)
```

**Attribute: ks**

**Fullname:** Arbitrary Unsigned Short Key

**Attribute Description** Arbitrary unsigned short key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

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**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

**Attribute: as2**

**Fullname:** Arbitrary Unsigned Short Attribute 2

**Attribute Description** Arbitrary unsigned short attribute 2

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary Unsigned Long Attribute 1

**Attribute: al2**

**Fullname:** Arbitrary Unsigned Long Attribute 2

**Attribute Description** Arbitrary unsigned long attribute 2

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# SF18

## 1. Description

This is the Special Feature Placeholder Relation 18 relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| application type | RCMAP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
SF18         relid = 2028  DBSTATIC   DBACC_HASH  DBPRAM    LPFR    RCMAP
     ks           DMHEX16      (ushort)     <--- key
     ksubrid      DMHEX8       (ushort: 8)      <--- key
  (a) ab1         DMBOOL       (enum: 1)
  (b) ab2         DMBOOL       (enum: 1)
  (c) ab3         DMBOOL       (enum: 1)
  (d) ab4         DMBOOL       (enum: 1)
  (e) ab5         DMBOOL       (enum: 1)
  (f) ab6         DMBOOL       (enum: 1)
  (g) ab7         DMBOOL       (enum: 1)
  (h) ab8         DMBOOL       (enum: 1)
      ah1         DMHEX4       (ushort: 4)
      ah2         DMHEX4       (ushort: 4)
      ah3         DMHEX4       (ushort: 4)
      ah4         DMHEX4       (ushort: 4)
      ac1         DMHEX8       (ushort: 8)
      ac2         DMHEX8       (ushort: 8)
      ac3         DMHEX8       (ushort: 8)
      ac4         DMHEX8       (ushort: 8)
      ac5         DMHEX8       (ushort: 8)
      ac6         DMHEX8       (ushort: 8)
      ac7         DMHEX8       (ushort: 8)
      ac8         DMHEX8       (ushort: 8)
      ac9         DMHEX8       (ushort: 8)
      ac10        DMHEX8       (ushort: 8)
      as1         DMHEX16      (ushort)
      as2         DMHEX16      (ushort)
      as3         DMHEX16      (ushort)
      as4         DMHEX16      (ushort)
      as5         DMHEX16      (ushort)
      as6         DMHEX16      (ushort)
      as7         DMHEX16      (ushort)
      as8         DMHEX16      (ushort)
      al1         DMHEX32      (ulong)
      al2         DMHEX32      (ulong)
      al3         DMHEX32      (ulong)
      al4         DMHEX32      (ulong)
```

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```
    al5         DMHEX32      (ulong)
    al6         DMHEX32      (ulong)
    al7         DMHEX32      (ulong)
    al8         DMHEX32      (ulong)
        User, Compacted and Stored Tuple Layout   SF18
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |               | | | | | | | | |
 0 |               ks              |    ksubrid    |a|b|c|d|e|f|g|h|
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |               |               |
 4 |  ah1  |  ah2  |  ah3  |  ah4  |      ac1      |      ac2      |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 8 |      ac3      |      ac4      |      ac5      |      ac6      |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
12 |      ac7      |      ac8      |      ac9      |      ac10     |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |              as1              |              as2              |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |              as3              |              as4              |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
24 |              as5              |              as6              |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
28 |              as7              |              as8              |
   |---------------+---------------+---------------+---------------|
   |                                                               |
32 |                              al1                              |
   |---------------+---------------+---------------+---------------|
   |                                                               |
36 |                              al2                              |
   |---------------+---------------+---------------+---------------|
   |                                                               |
40 |                              al3                              |
   |---------------+---------------+---------------+---------------|
   |                                                               |
44 |                              al4                              |
   |---------------+---------------+---------------+---------------|
   |                                                               |
48 |                              al5                              |
   |---------------+---------------+---------------+---------------|
   |                                                               |
52 |                              al6                              |
   |---------------+---------------+---------------+---------------|
   |                                                               |
56 |                              al7                              |
   |---------------+---------------+---------------+---------------|
   |                                                               |
```

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```
 60 |                              al8                                |
    |---------------+---------------+---------------+---------------|
       ( 64 bytes )
```

## 4. Population Rules for RLsf18

**Relation Description**
Special Feature Placeholder Relation 18.

This relation is a dummy placeholder relation. It is not to be used without permission from the Special Features Spare Resource Administrator.

Multiple features may use this relation at one time. The subrelation ID key (ksubrid) must be used to distinguish tuples used by different features or tuples that mimic different regular relations.

The following features use this relation as follows:

```
ksubrid         feature/purpose
-------         ---------------
The following is a brief description of each feature:

FEATURE NAME
------------
(Description of feature)
.     .      .
.     .      .
.     .      .
FEATURE NAME
------------
(Description of feature)
```

**Attribute: ks**

**Fullname:** Arbitrary Unsigned Short Key

**Attribute Description** Arbitrary unsigned short key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

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**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary Bit Attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: ah1**

**Fullname:** Arbitrary Unsigned 4-bit Attribute 1

**Attribute Description** Arbitrary unsigned 4-bit attribute 1

**Attribute: ah2**

**Fullname:** Arbitrary Unsigned 4-bit Attribute 2

**Attribute Description** Arbitrary unsigned 4-bit attribute 2

**Attribute: ah3**

**Fullname:** Arbitrary Unsigned 4-bit Attribute 3

**Attribute Description** Arbitrary unsigned 4-bit attribute 3

**Attribute: ah4**

**Fullname:** Arbitrary Unsigned 4-bit Attribute 4

**Attribute Description** Arbitrary unsigned 4-bit attribute 4

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**Attribute: ac1**

**Fullname:** Arbitrary Unsigned Character Attribute 1

**Attribute Description** Arbitrary unsigned character attribute 1

**Attribute: ac2**

**Fullname:** Arbitrary Unsigned Character Attribute 2

**Attribute Description** Arbitrary unsigned character attribute 2

**Attribute: ac3**

**Fullname:** Arbitrary Unsigned Character Attribute 3

**Attribute Description** Arbitrary unsigned character attribute 3

**Attribute: ac4**

**Fullname:** Arbitrary Unsigned Character Attribute 4

**Attribute Description** Arbitrary unsigned character attribute 4

**Attribute: ac5**

**Fullname:** Arbitrary Unsigned Character Attribute 5

**Attribute Description** Arbitrary unsigned character attribute 5

**Attribute: ac6**

**Fullname:** Arbitrary Unsigned Character Attribute 6

**Attribute Description** Arbitrary unsigned character attribute 6

**Attribute: ac7**

**Fullname:** Arbitrary Unsigned Character Attribute 7

**Attribute Description** Arbitrary unsigned character attribute 7

**Attribute: ac8**

**Fullname:** Arbitrary Unsigned Character Attribute 8

**Attribute Description** Arbitrary unsigned character attribute 8

**Attribute: ac9**

**Fullname:** Arbitrary Unsigned Character Attribute 9

**Attribute Description** Arbitrary unsigned character attribute 9

**Attribute: ac10**

**Fullname:** Arbitrary Unsigned Character Attribute 10

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**Attribute Description** Arbitrary unsigned character attribute 10

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

**Attribute: as2**

**Fullname:** Arbitrary Unsigned Short Attribute 2

**Attribute Description** Arbitrary unsigned short attribute 2

**Attribute: as3**

**Fullname:** Arbitrary Unsigned Short Attribute 3

**Attribute Description** Arbitrary unsigned short attribute 3

**Attribute: as4**

**Fullname:** Arbitrary Unsigned Short Attribute 4

**Attribute Description** Arbitrary unsigned short attribute 4

**Attribute: as5**

**Fullname:** Arbitrary Unsigned Short Attribute 5

**Attribute Description** Arbitrary unsigned short attribute 5

**Attribute: as6**

**Fullname:** Arbitrary Unsigned Short Attribute 6

**Attribute Description** Arbitrary unsigned short attribute 6

**Attribute: as7**

**Fullname:** Arbitrary Unsigned Short Attribute 7

**Attribute Description** Arbitrary unsigned short attribute 7

**Attribute: as8**

**Fullname:** Arbitrary Unsigned Short Attribute 8

**Attribute Description** Arbitrary unsigned short attribute 8

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary unsigned long attribute 1

**Attribute: al2**

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**Fullname:** Arbitrary Unsigned Long Attribute 2

**Attribute Description** Arbitrary unsigned long attribute 2

**Attribute: al3**

**Fullname:** Arbitrary Unsigned Long Attribute 3

**Attribute Description** Arbitrary unsigned long attribute 3

**Attribute: al4**

**Fullname:** Arbitrary Unsigned Long Attribute 4

**Attribute Description** Arbitrary unsigned long attribute 4

**Attribute: al5**

**Fullname:** Arbitrary Unsigned Long Attribute 5

**Attribute Description** Arbitrary unsigned long attribute 5

**Attribute: al6**

**Fullname:** Arbitrary Unsigned Long Attribute 6

**Attribute Description** Arbitrary unsigned long attribute 6

**Attribute: al7**

**Fullname:** Arbitrary Unsigned Long Attribute 7

**Attribute Description** Arbitrary unsigned long attribute 7

**Attribute: al8**

**Fullname:** Arbitrary Unsigned Long Attribute 8

**Attribute Description** Arbitrary unsigned long attribute 8

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# SF20

## 1. Description

Special feature placeholder relation 20.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBDISK |
| distribution | DO |
| application type | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 2048 |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
SF20        relid = 1429  DBSTATIC   DBACC_HASH  DBDISK    DO      DDBM
     kmember     DMHEX16      (ushort)  <--- key
     kmodule     DMMODULE     (ushort: 8)  <--- key
     kparty      DMPARTY      (ushort: 4)  <--- key
     kaux        DMHEX4       (ushort: 4)  <--- key
     ksubrid     DMHEX8       (ushort: 8)  <--- key
 (a) ab1         DMBOOL       (enum: 1)
 (b) ab2         DMBOOL       (enum: 1)
 (c) ab3         DMBOOL       (enum: 1)
 (d) ab4         DMBOOL       (enum: 1)
 (e) ab5         DMBOOL       (enum: 1)
 (f) ab6         DMBOOL       (enum: 1)
 (g) ab7         DMBOOL       (enum: 1)
 (h) ab8         DMBOOL       (enum: 1)
     as          DMHEX16      (ushort)
     al1         DMHEX32      (ulong)
     al2         DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF20
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |       |       |
  0 |            kmember            |    kmodule    | kparty|  kaux |
    |---------------+---------------+---------------+---------------|
    |               | | | | | | | |                               |
  4 |    ksubrid    |a|b|c|d|e|f|g|h|               as              |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             al1                               |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                             al2                               |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

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## 4. Population Rules for RLsf20

**Relation Description**
Special feature placeholder relation 20.

This relation is a dummy placeholder relation.

**Attribute: kmember**

**Fullname:** Member Number Key

**Attribute Description** Member number key

**Attribute: kmodule**

**Fullname:** Module Number Key

**Attribute Description** Module number key

**Attribute: kparty**

**Fullname:** Party Identifier Key

**Attribute Description** Module number key

**Attribute: kaux**

**Fullname:** Auxiliary Key

**Attribute Description** Auxiliary key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

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**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: as**

**Fullname:** Arbitrary Unsigned Short Attribute

**Attribute Description** Arbitrary unsigned short attribute

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary Unsigned Long Attribute 1

**Attribute: al2**

**Fullname:** Arbitrary Unsigned Long Attribute 2

**Attribute Description** Arbitrary unsigned long attribute 2

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# SF21

## 1. Description

Special feature placeholder relation 21.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application type | GCRTG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| trigger function | RTtrsf21 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
SF21        relid = 1430  DBSTATIC   DBACC_HASH  DBPRAM    LPFPFG  GCRTG
     kmember     DMHEX16      (ushort)  <--- key
     kmodule     DMMODULE     (ushort: 8)  <--- key
     kparty      DMPARTY      (ushort: 4)  <--- key
     kaux        DMHEX4       (ushort: 4)  <--- key
     ksubrid     DMHEX8       (ushort: 8)  <--- key
 (a) ab1         DMBOOL       (enum: 1)
 (b) ab2         DMBOOL       (enum: 1)
 (c) ab3         DMBOOL       (enum: 1)
 (d) ab4         DMBOOL       (enum: 1)
 (e) ab5         DMBOOL       (enum: 1)
 (f) ab6         DMBOOL       (enum: 1)
 (g) ab7         DMBOOL       (enum: 1)
 (h) ab8         DMBOOL       (enum: 1)
     as          DMHEX16      (ushort)
     al1         DMHEX32      (ulong)
     al2         DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF21
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |       |       |
  0 |            kmember            |    kmodule    | kparty|  kaux |
    |---------------+---------------+---------------+---------------|
    |               | | | | | | | |                               |
  4 |    ksubrid    |a|b|c|d|e|f|g|h|               as              |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             al1                               |
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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```
 12 |                              al2                                |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLsf21

**Relation Description**
Special feature placeholder relation 21.

This relation is a dummy placeholder relation.

**Attribute: kmember**

**Fullname:** Member Number Key

**Attribute Description** Member number key

**Attribute: kmodule**

**Fullname:** Module Number Key

**Attribute Description** Module number key

**Attribute: kparty**

**Fullname:** Party Identifier Key

**Attribute Description** Module number key

**Attribute: kaux**

**Fullname:** Auxiliary Key

**Attribute Description** Auxiliary key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

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**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: as**

**Fullname:** Arbitrary Unsigned Short Attribute

**Attribute Description** Arbitrary unsigned short attribute

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary Unsigned Long Attribute 1

**Attribute: al2**

**Fullname:** Arbitrary Unsigned Long Attribute 2

**Attribute Description** Arbitrary unsigned long attribute 2

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# SF22

## 1. Description

Special feature placeholder relation 22.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| application type | NULL |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| trigger function | FCtrsf22 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
SF22        relid = 1431  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     kmember     DMHEX16      (ushort)  <--- key
     kmodule     DMMODULE     (ushort: 8)  <--- key
     kparty      DMPARTY      (ushort: 4)  <--- key
     kaux        DMHEX4       (ushort: 4)  <--- key
     ksubrid     DMHEX8       (ushort: 8)  <--- key
 (a) ab1         DMBOOL       (enum: 1)
 (b) ab2         DMBOOL       (enum: 1)
 (c) ab3         DMBOOL       (enum: 1)
 (d) ab4         DMBOOL       (enum: 1)
 (e) ab5         DMBOOL       (enum: 1)
 (f) ab6         DMBOOL       (enum: 1)
 (g) ab7         DMBOOL       (enum: 1)
 (h) ab8         DMBOOL       (enum: 1)
     as          DMHEX16      (ushort)
     al1         DMHEX32      (ulong)
     al2         DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF22
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |       |       |
  0 |            kmember            |    kmodule    | kparty|  kaux |
    |---------------+---------------+---------------+---------------|
    |               | | | | | | | |                               |
  4 |    ksubrid    |a|b|c|d|e|f|g|h|               as              |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             al1                               |
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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```
 12 |                              al2                                |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLsf22

**Relation Description**
Special feature placeholder relation 22.

This relation is a dummy placeholder relation.

**Attribute: kmember**

**Fullname:** Member Number Key

**Attribute Description** Member number key

**Attribute: kmodule**

**Fullname:** Module Number Key

**Attribute Description** Module number key

**Attribute: kparty**

**Fullname:** Party Identifier Key

**Attribute Description** Party identifier key

**Attribute: kaux**

**Fullname:** Auxiliary Key

**Attribute Description** Auxiliary key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

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**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: as**

**Fullname:** Arbitrary Unsigned Short Attribute

**Attribute Description** Arbitrary unsigned short attribute

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary Unsigned Long Attribute 1

**Attribute: al2**

**Fullname:** Arbitrary Unsigned Long Attribute 2

**Attribute Description** Arbitrary unsigned long attribute 2

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# SF23

## 1. Description

Special feature placeholder relation 23.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| application type | NULL |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| trigger function | FCtrsf23 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
SF23        relid = 1432  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     kmember     DMHEX16      (ushort)  <--- key
     kmodule     DMMODULE     (ushort: 8)  <--- key
     kparty      DMPARTY      (ushort: 4)  <--- key
     kaux        DMHEX4       (ushort: 4)  <--- key
     ksubrid     DMHEX8       (ushort: 8)  <--- key
 (a) ab1         DMBOOL       (enum: 1)
 (b) ab2         DMBOOL       (enum: 1)
 (c) ab3         DMBOOL       (enum: 1)
 (d) ab4         DMBOOL       (enum: 1)
 (e) ab5         DMBOOL       (enum: 1)
 (f) ab6         DMBOOL       (enum: 1)
 (g) ab7         DMBOOL       (enum: 1)
 (h) ab8         DMBOOL       (enum: 1)
     as          DMHEX16      (ushort)
     al1         DMHEX32      (ulong)
     al2         DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF23
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |       |       |
  0 |            kmember            |    kmodule    | kparty|  kaux |
    |---------------+---------------+---------------+---------------|
    |               | | | | | | | |                               |
  4 |    ksubrid    |a|b|c|d|e|f|g|h|               as              |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             al1                               |
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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```
 12 |                              al2                                |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLsf23

**Relation Description**
Special feature placeholder relation 23.

This relation is a dummy placeholder relation.

**Attribute: kmember**

**Fullname:** Member Number Key

**Attribute Description** Member number key

**Attribute: kmodule**

**Fullname:** Module Number Key

**Attribute Description** Module number key

**Attribute: kparty**

**Fullname:** Party Identifier Key

**Attribute Description** Module number key

**Attribute: kaux**

**Fullname:** Auxiliary Key

**Attribute Description** Auxiliary key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

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**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: as**

**Fullname:** Arbitrary Unsigned Short Attribute

**Attribute Description** Arbitrary unsigned short attribute

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary Unsigned Long Attribute 1

**Attribute: al2**

**Fullname:** Arbitrary Unsigned Long Attribute 2

**Attribute Description** Arbitrary unsigned long attribute 2

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# SF24

## 1. Description

Special feature placeholder relation 24.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| application type | NULL |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
SF24        relid = 2023  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     kmember     DMHEX16      (ushort)  <--- key
     kmodule     DMMODULE     (ushort: 8)  <--- key
     kparty      DMPARTY      (ushort: 4)  <--- key
     kaux        DMHEX4       (ushort: 4)  <--- key
     ksubrid     DMHEX8       (ushort: 8)  <--- key
  (a) ab1        DMBOOL       (enum: 1)
  (b) ab2        DMBOOL       (enum: 1)
  (c) ab3        DMBOOL       (enum: 1)
  (d) ab4        DMBOOL       (enum: 1)
  (e) ab5        DMBOOL       (enum: 1)
  (f) ab6        DMBOOL       (enum: 1)
  (g) ab7        DMBOOL       (enum: 1)
  (h) ab8        DMBOOL       (enum: 1)
     ac1         DMHEX8       (ushort: 8)
     ac2         DMHEX8       (ushort: 8)
     as1         DMHEX16      (ushort)
     as2         DMHEX16      (ushort)
     as3         DMHEX16      (ushort)
     as4         DMHEX16      (ushort)
     al1         DMHEX32      (ulong)
     al2         DMHEX32      (ulong)
     al3         DMHEX32      (ulong)
     al4         DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF24
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |       |       |
  0 |            kmember            |    kmodule    | kparty|  kaux |
    |---------------+---------------+---------------+---------------|
    |               | | | | | | | | |               |               |
  4 |    ksubrid    |a|b|c|d|e|f|g|h|      ac1      |      ac2      |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |              as1              |              as2              |
    |---------------+---------------+---------------+---------------|
```

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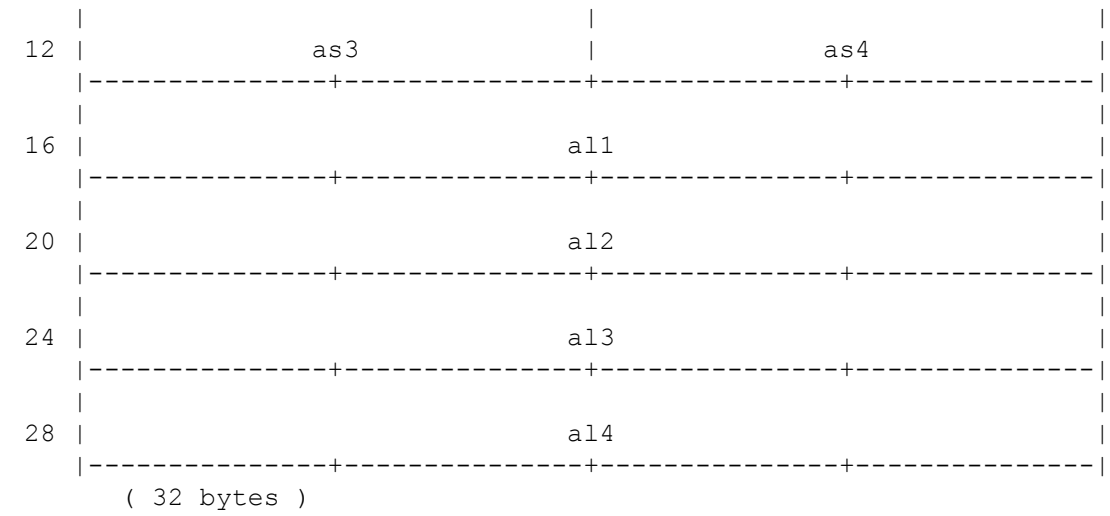


## 4. Population Rules for RLsf24

**Relation Description**
Special feature placeholder relation 24.

This relation is a dummy placeholder relation. It is not to be used without permission from the special features spare resource administrator.

Multiple features may use this relation at one time. The subrelation ID key (ksubrid) must be used to distinguish tuples used by different features or tuples that mimic different regular relations.

The following features use this relation as follows:

```
ksubrid         feature/purpose
-------         ---------------
The following is a brief description of each feature:

FEATURE NAME
------------
(Description of feature)
.     .      .
.     .      .
.     .      .
FEATURE NAME
------------
(Description of feature)
```

**Attribute: kmember**

**Fullname:** Member Number Key

**Attribute Description** Member number key

**Attribute: kmodule**

**Fullname:** Module Number Key

**Attribute Description** Module number key

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**Attribute: kparty**

**Fullname:** Party Identifier Key

**Attribute Description** Party identifier key

**Attribute: kaux**

**Fullname:** Auxiliary Key

**Attribute Description** Auxiliary key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

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**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: ac1**

**Fullname:** Arbitrary Unsigned Character Attribute 1

**Attribute Description** Arbitrary unsigned character attribute 1

**Attribute: ac2**

**Fullname:** Arbitrary Unsigned Character Attribute 2

**Attribute Description** Arbitrary unsigned character attribute 2

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

**Attribute: as2**

**Fullname:** Arbitrary Unsigned Short Attribute 2

**Attribute Description** Arbitrary unsigned short attribute 2

**Attribute: as3**

**Fullname:** Arbitrary Unsigned Short Attribute 3

**Attribute Description** Arbitrary unsigned short attribute 3

**Attribute: as4**

**Fullname:** Arbitrary Unsigned Short Attribute 4

**Attribute Description** Arbitrary unsigned short attribute 4

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary unsigned long attribute 1

**Attribute: al2**

**Fullname:** Arbitrary Unsigned Long Attribute 2

**Attribute Description** Arbitrary unsigned long attribute 2

**Attribute: al3**

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**Fullname:** Arbitrary Unsigned Long Attribute 3

**Attribute Description** Arbitrary unsigned long attribute 3

**Attribute: al4**

**Fullname:** Arbitrary Unsigned Long Attribute 4

**Attribute Description** Arbitrary unsigned long attribute 4

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# SF30

## 1. Description

Special feature placeholder relation 30.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| application type | NULL |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| trigger function | RTtrsf30 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
SF30        relid = 1433  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     ksubrid     DMHEX8        (ushort: 8)  <--- key
     kc1         DMHEX8        (ushort: 8)  <--- key
     kc2         DMHEX8        (ushort: 8)  <--- key
     kc3         DMHEX8        (ushort: 8)  <--- key
     kc4         DMHEX8        (ushort: 8)  <--- key
     kc5         DMHEX8        (ushort: 8)  <--- key
 (a) ab1         DMBOOL        (enum: 1)
 (b) ab2         DMBOOL        (enum: 1)
 (c) ab3         DMBOOL        (enum: 1)
 (d) ab4         DMBOOL        (enum: 1)
 (e) ab5         DMBOOL        (enum: 1)
 (f) ab6         DMBOOL        (enum: 1)
 (g) ab7         DMBOOL        (enum: 1)
 (h) ab8         DMBOOL        (enum: 1)
     ac1         DMHEX8        (ushort: 8)
     as1         DMHEX16       (ushort)
     as2         DMHEX16       (ushort)
     al          DMHEX32       (ulong)
         User, Compacted and Stored Tuple Layout   SF30
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  0 |    ksubrid    |      kc1      |      kc2      |      kc3      |
    |---------------+---------------+---------------+---------------|
    |               |               | | | | | | | | |               |
  4 |      kc4      |      kc5      |a|b|c|d|e|f|g|h|      ac1      |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |              as1              |              as2              |
```

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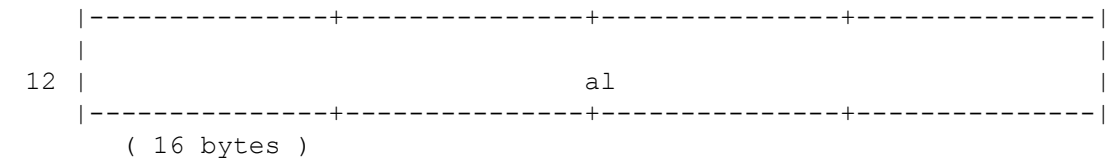


## 4. Population Rules for RLsf30

**Relation Description**
Special feature placeholder relation 30.

This relation is a dummy placeholder relation.

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: kc1**

**Fullname:** Arbitrary Unsigned Character Key 1

**Attribute Description** Arbitrary unsigned character key 1

**Attribute: kc2**

**Fullname:** Arbitrary Unsigned Character Key 2

**Attribute Description** Arbitrary unsigned character key 2

**Attribute: kc3**

**Fullname:** Arbitrary Unsigned Character Key 3

**Attribute Description** Arbitrary unsigned character key 3

**Attribute: kc4**

**Fullname:** Arbitrary Unsigned Character Key 4

**Attribute Description** Arbitrary unsigned character key 4

**Attribute: kc5**

**Fullname:** Arbitrary Unsigned Character Key 5

**Attribute Description** Arbitrary unsigned character key 5

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

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**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: ac1**

**Fullname:** Arbitrary Unsigned Character Attribute 1

**Attribute Description** Arbitrary unsigned character attribute 1

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

**Attribute: as2**

**Fullname:** Arbitrary Unsigned Short Attribute 2

**Attribute Description** Arbitrary unsigned short attribute 2

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**Attribute: al**

**Fullname:** Arbitrary Unsigned Long Attribute

**Attribute Description** Arbitrary Unsigned Long Attribute

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# SF31

## 1. Description

Special feature placeholder relation 31.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBDISK |
| distribution | DO |
| application type | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 2048 |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
SF31        relid = 1434  DBSTATIC   DBACC_HASH  DBDISK    DO      DDBM
     ksubrid     DMHEX8        (ushort: 8)  <--- key
     kc1         DMHEX8        (ushort: 8)  <--- key
     kc2         DMHEX8        (ushort: 8)  <--- key
     kc3         DMHEX8        (ushort: 8)  <--- key
     kc4         DMHEX8        (ushort: 8)  <--- key
     kc5         DMHEX8        (ushort: 8)  <--- key
 (a) ab1         DMBOOL        (enum: 1)
 (b) ab2         DMBOOL        (enum: 1)
 (c) ab3         DMBOOL        (enum: 1)
 (d) ab4         DMBOOL        (enum: 1)
 (e) ab5         DMBOOL        (enum: 1)
 (f) ab6         DMBOOL        (enum: 1)
 (g) ab7         DMBOOL        (enum: 1)
 (h) ab8         DMBOOL        (enum: 1)
     ac1         DMHEX8        (ushort: 8)
     as1         DMHEX16       (ushort)
     as2         DMHEX16       (ushort)
     al          DMHEX32       (ulong)
         User, Compacted and Stored Tuple Layout   SF31
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  0 |    ksubrid    |      kc1      |      kc2      |      kc3      |
    |---------------+---------------+---------------+---------------|
    |               |               | | | | | | | | |               |
  4 |      kc4      |      kc5      |a|b|c|d|e|f|g|h|      ac1      |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |              as1              |              as2              |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                              al                               |
    |---------------+---------------+---------------+---------------|
```

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```
( 16 bytes )
```

## 4. Population Rules for RLsf31

**Relation Description**
Special feature placeholder relation 31.

This relation is a dummy placeholder relation.

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: kc1**

**Fullname:** Arbitrary Unsigned Character Key 1

**Attribute Description** Arbitrary unsigned character key 1

**Attribute: kc2**

**Fullname:** Arbitrary Unsigned Character Key 2

**Attribute Description** Arbitrary unsigned character key 2

**Attribute: kc3**

**Fullname:** Arbitrary Unsigned Character Key 3

**Attribute Description** Arbitrary unsigned character key 3

**Attribute: kc4**

**Fullname:** Arbitrary Unsigned Character Key 4

**Attribute Description** Arbitrary unsigned character key 4

**Attribute: kc5**

**Fullname:** Arbitrary Unsigned Character Key 5

**Attribute Description** Arbitrary unsigned character key 5

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

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**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: ac1**

**Fullname:** Arbitrary Unsigned Character Attribute 1

**Attribute Description** Arbitrary unsigned character attribute 1

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

**Attribute: as2**

**Fullname:** Arbitrary Unsigned Short Attribute 2

**Attribute Description** Arbitrary unsigned short attribute 2

**Attribute: al**

**Fullname:** Arbitrary Unsigned Long Attribute

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**Attribute Description** Arbitrary Unsigned Long Attribute

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# SF40

## 1. Description

Special feature placeholder relation 40.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application type | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| trigger function | FCtrsf40 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
SF40        relid = 1435  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     ks1          DMHEX16       (ushort)  <--- key
     ks2          DMHEX16       (ushort)  <--- key
     kc           DMHEX8        (ushort: 8)  <--- key
     ksubrid      DMHEX8        (ushort: 8)  <--- key
  (a) ab1         DMBOOL        (enum: 1)
  (b) ab2         DMBOOL        (enum: 1)
  (c) ab3         DMBOOL        (enum: 1)
  (d) ab4         DMBOOL        (enum: 1)
  (e) ab5         DMBOOL        (enum: 1)
  (f) ab6         DMBOOL        (enum: 1)
  (g) ab7         DMBOOL        (enum: 1)
  (h) ab8         DMBOOL        (enum: 1)
     ac1          DMHEX8        (ushort: 8)
     as1          DMHEX16       (ushort)
     as2          DMHEX16       (ushort)
     al           DMHEX32       (ulong)
         User, Compacted and Stored Tuple Layout   SF40
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              ks1              |              ks2              |
    |---------------+---------------+---------------+---------------|
    |               |               | | | | | | | | |               |
  4 |       kc      |    ksubrid    |a|b|c|d|e|f|g|h|      ac1      |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |              as1              |              as2              |
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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```
 12 |                                al                                 |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLsf40

**Relation Description**
Special feature placeholder relation 40.

This relation is a dummy placeholder relation.

**Attribute: ks1**

**Fullname:** Arbitrary Unsigned Short Key 1

**Attribute Description** Arbitrary unsigned short key 1

**Attribute: ks2**

**Fullname:** Arbitrary Unsigned Short Key 2

**Attribute Description** Arbitrary unsigned short key 2

**Attribute: kc**

**Fullname:** Arbitrary Unsigned Character Key

**Attribute Description** Arbitrary unsigned character key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

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**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: ac1**

**Fullname:** Arbitrary Unsigned Character Attribute 1

**Attribute Description** Arbitrary unsigned character attribute 1

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

**Attribute: as2**

**Fullname:** Arbitrary Unsigned Short Attribute 2

**Attribute Description** Arbitrary unsigned short attribute 2

**Attribute: al**

**Fullname:** Arbitrary Unsigned Long Attribute

**Attribute Description** Arbitrary Unsigned Long Attribute

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# SF41

## 1. Description

Special feature placeholder relation 41.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application type | GCRTG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| trigger function | RTtrsf41 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
SF41        relid = 1436  DBSTATIC   DBACC_HASH  DBPRAM    LPFPFG  GCRTG
     ks1          DMHEX16       (ushort)  <--- key
     ks2          DMHEX16       (ushort)  <--- key
     kc           DMHEX8        (ushort: 8)  <--- key
     ksubrid      DMHEX8        (ushort: 8)  <--- key
 (a) ab1          DMBOOL        (enum: 1)
 (b) ab2          DMBOOL        (enum: 1)
 (c) ab3          DMBOOL        (enum: 1)
 (d) ab4          DMBOOL        (enum: 1)
 (e) ab5          DMBOOL        (enum: 1)
 (f) ab6          DMBOOL        (enum: 1)
 (g) ab7          DMBOOL        (enum: 1)
 (h) ab8          DMBOOL        (enum: 1)
     ac1          DMHEX8        (ushort: 8)
     as1          DMHEX16       (ushort)
     as2          DMHEX16       (ushort)
     al           DMHEX32       (ulong)
         User, Compacted and Stored Tuple Layout   SF41
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              ks1              |              ks2              |
    |---------------+---------------+---------------+---------------|
    |               |               | | | | | | | | |               |
  4 |       kc      |    ksubrid    |a|b|c|d|e|f|g|h|      ac1      |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |              as1              |              as2              |
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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```
 12 |                                al                                 |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLsf41

**Relation Description**
Special feature placeholder relation 41.

This relation is a dummy placeholder relation.

**Attribute: ks1**

**Fullname:** Arbitrary Unsigned Short Key 1

**Attribute Description** Arbitrary unsigned short key 1

**Attribute: ks2**

**Fullname:** Arbitrary Unsigned Short Key 2

**Attribute Description** Arbitrary unsigned short key 2

**Attribute: kc**

**Fullname:** Arbitrary Unsigned Character Key

**Attribute Description** Arbitrary unsigned character key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

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**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: ac1**

**Fullname:** Arbitrary Unsigned Character Attribute 1

**Attribute Description** Arbitrary unsigned character attribute 1

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

**Attribute: as2**

**Fullname:** Arbitrary Unsigned Short Attribute 2

**Attribute Description** Arbitrary unsigned short attribute 2

**Attribute: al**

**Fullname:** Arbitrary Unsigned Long Attribute

**Attribute Description** Arbitrary Unsigned Long Attribute

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# SF42

## 1. Description

Special feature placeholder relation 42.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application type | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| trigger function | FCtrsf42 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
SF42        relid = 1437  DBSTATIC   DBACC_HASH  DBPRAM    LPFPFG  RCMAP
     ks1          DMHEX16       (ushort)  <--- key
     ks2          DMHEX16       (ushort)  <--- key
     kc           DMHEX8        (ushort: 8)  <--- key
     ksubrid      DMHEX8        (ushort: 8)  <--- key
  (a) ab1         DMBOOL        (enum: 1)
  (b) ab2         DMBOOL        (enum: 1)
  (c) ab3         DMBOOL        (enum: 1)
  (d) ab4         DMBOOL        (enum: 1)
  (e) ab5         DMBOOL        (enum: 1)
  (f) ab6         DMBOOL        (enum: 1)
  (g) ab7         DMBOOL        (enum: 1)
  (h) ab8         DMBOOL        (enum: 1)
     ac1          DMHEX8        (ushort: 8)
     as1          DMHEX16       (ushort)
     as2          DMHEX16       (ushort)
     al           DMHEX32       (ulong)
         User, Compacted and Stored Tuple Layout   SF42
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              ks1              |              ks2              |
    |---------------+---------------+---------------+---------------|
    |               |               | | | | | | | | |               |
  4 |       kc      |    ksubrid    |a|b|c|d|e|f|g|h|      ac1      |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |              as1              |              as2              |
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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```
 12 |                                al                                 |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLsf42

**Relation Description**
Special feature placeholder relation 42.

This relation is a dummy placeholder relation.

**Attribute: ks1**

**Fullname:** Arbitrary Unsigned Short Key 1

**Attribute Description** Arbitrary unsigned short key 1

**Attribute: ks2**

**Fullname:** Arbitrary Unsigned Short Key 2

**Attribute Description** Arbitrary unsigned short key 2

**Attribute: kc**

**Fullname:** Arbitrary Unsigned Character Key

**Attribute Description** Arbitrary unsigned character key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

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**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: ac1**

**Fullname:** Arbitrary Unsigned Character Attribute 1

**Attribute Description** Arbitrary unsigned character attribute 1

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

**Attribute: as2**

**Fullname:** Arbitrary Unsigned Short Attribute 2

**Attribute Description** Arbitrary unsigned short attribute 2

**Attribute: al**

**Fullname:** Arbitrary Unsigned Long Attribute

**Attribute Description** Arbitrary Unsigned Long Attribute

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# SF43

## 1. Description

Special Feature placeholder relation 43.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| expected number of tuples | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| application type | NULL |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| trigger function | RTtrsf43 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
SF43        relid = 1438  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     ks1          DMHEX16      (ushort)  <--- key
     ks2          DMHEX16      (ushort)  <--- key
     kc           DMHEX8       (ushort: 8)  <--- key
     ksubrid      DMHEX8       (ushort: 8)  <--- key
  (a) ab1         DMBOOL       (enum: 1)
  (b) ab2         DMBOOL       (enum: 1)
  (c) ab3         DMBOOL       (enum: 1)
  (d) ab4         DMBOOL       (enum: 1)
  (e) ab5         DMBOOL       (enum: 1)
  (f) ab6         DMBOOL       (enum: 1)
  (g) ab7         DMBOOL       (enum: 1)
  (h) ab8         DMBOOL       (enum: 1)
     ac1          DMHEX8       (ushort: 8)
     as1          DMHEX16      (ushort)
     as2          DMHEX16      (ushort)
     al           DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF43
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |               ks1             |               ks2             |
    |---------------+---------------+---------------+---------------|
    |                |              | | | | | | | | |              |
  4 |        kc      |    ksubrid   |a|b|c|d|e|f|g|h|      ac1     |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |               as1             |               as2             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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```
 12 |                              al                                |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLsf43

**Relation Description**
Special Feature Placeholder Relation 43.

This relation is a dummy placeholder relation. It is not to be used without permission from the Special Features Department--Dept. 55663. Multiple features may use this relation at one time. The subrelation ID key (ksubrid) must be used to distinguish tuples used by different features or tuples that mimic different regular relations.

The following features use this relation as follows:

| ksubrid | feature/purpose |
|---|---|

The following is a brief description of each feature:

```
FEATURE NAME
------------
(Description of feature)
.     .      .
.     .      .
.     .      .
FEATURE NAME
------------
(Description of feature)
```

**Attribute: ks1**

**Fullname:** Arbitrary Unsigned Short Key 1

**Attribute Description** Arbitrary unsigned short key 1.

**Attribute: ks2**

**Fullname:** Arbitrary Unsigned Short Key 2

**Attribute Description** Arbitrary unsigned short key 2.

**Attribute: kc**

**Fullname:** Arbitrary Unsigned Character Key

**Attribute Description** Arbitrary unsigned character key.

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key.

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

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**Attribute Description** Arbitrary bit attribute 1.

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2.

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3.

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4.

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5.

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6.

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7.

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8.

**Attribute: ac1**

**Fullname:** Arbitrary Unsigned Character Attribute 1

**Attribute Description** Arbitrary unsigned character attribute 1.

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1.

**Attribute: as2**

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**Fullname:** Arbitrary Unsigned Short Attribute 2

**Attribute Description** Arbitrary unsigned short attribute 2.

**Attribute: al**

**Fullname:** Arbitrary Unsigned Long Attribute

**Attribute Description** Arbitrary unsigned long attribute.

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# SF44

## 1. Description

Special feature placeholder relation 44.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application type | CCS |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
SF44        relid = 2033  DBSTATIC   DBACC_HASH  DBPRAM    LP      CCS
     ks1          DMHEX16      (ushort)  <--- key
     ks2          DMHEX16      (ushort)  <--- key
     kc           DMHEX8       (ushort: 8)  <--- key
     ksubrid      DMHEX8       (ushort: 8)  <--- key
 (a) ab1          DMBOOL       (enum: 1)
 (b) ab2          DMBOOL       (enum: 1)
 (c) ab3          DMBOOL       (enum: 1)
 (d) ab4          DMBOOL       (enum: 1)
 (e) ab5          DMBOOL       (enum: 1)
 (f) ab6          DMBOOL       (enum: 1)
 (g) ab7          DMBOOL       (enum: 1)
 (h) ab8          DMBOOL       (enum: 1)
     ac1          DMHEX8       (ushort: 8)
     as1          DMHEX16      (ushort)
     as2          DMHEX16      (ushort)
     al1          DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF44
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              ks1              |              ks2              |
    |---------------+---------------+---------------+---------------|
    |               |               | | | | | | | | |               |
  4 |       kc      |    ksubrid    |a|b|c|d|e|f|g|h|      ac1      |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |              as1              |              as2              |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |                             al1                               |
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLsf44

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**Relation Description**
Special feature placeholder relation 44.

This relation is a dummy placeholder relation. It is not to be used without permission from the special features spare resource administrator.

Multiple features may use this relation at one time. The subrelation ID key (ksubrid) must be used to distinguish tuples used by different features or tuples that mimic different regular relations.

The following features use this relation as follows:

```
ksubrid         feature/purpose
-------         ---------------
```

The following is a brief description of each feature:

```
FEATURE NAME
------------
(Description of feature)
.      .       .
.      .       .
.      .       .
FEATURE NAME
------------
(Description of feature)
```

**Attribute: ks1**

**Fullname:** Arbitrary Unsigned Short Key 1

**Attribute Description** Arbitrary unsigned short key 1

**Attribute: ks2**

**Fullname:** Arbitrary Unsigned Short Key 2

**Attribute Description** Arbitrary unsigned short key 2

**Attribute: kc**

**Fullname:** Arbitrary Unsigned Character Key

**Attribute Description** Arbitrary unsigned character key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

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**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: ac1**

**Fullname:** Arbitrary Unsigned Character Attribute 1

**Attribute Description** Arbitrary unsigned character attribute 1

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1

**Attribute: as2**

**Fullname:** Arbitrary Unsigned Short Attribute 2

**Attribute Description** Arbitrary unsigned short attribute 2

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**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary Unsigned Long Attribute 1

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# SF50

## 1. Description

Special feature placeholder relation 50.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application type | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| trigger function | FCtrsf50 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
SF50        relid = 1439  DBSTATIC   DBACC_HASH  DBPRAM    LPFPFG  RCMAP
     kbf1         DMHEX16       (ushort)  <--- key
     kbf2         DMHEX3        (ushort: 3)  <--- key
 (a) kb           DMBOOL        (enum: 1)  <--- key
     kc           DMHEX8        (ushort: 8)  <--- key
     ksubrid      DMHEX8        (ushort: 8)  <--- key
 (b) ab1          DMBOOL        (enum: 1)
 (c) ab2          DMBOOL        (enum: 1)
 (d) ab3          DMBOOL        (enum: 1)
 (e) ab4          DMBOOL        (enum: 1)
 (f) ab5          DMBOOL        (enum: 1)
 (g) ab6          DMBOOL        (enum: 1)
 (h) ab7          DMBOOL        (enum: 1)
 (i) ab8          DMBOOL        (enum: 1)
     ac1          DMHEX8        (ushort: 8)
     as           DMHEX16       (ushort)
     al1          DMHEX32       (ulong)
     al2          DMHEX32       (ulong)
         User, Compacted and Stored Tuple Layout   SF50
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |     | |               |       |
  0 |              kbf1             | kbf2|a|       kc      |*******|
    |---------------+---------------+---------------+---------------|
    |                | | | | | | | |               |               |
  4 |    ksubrid    |b|c|d|e|f|g|h|i|      ac1      |***************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |               as              |*******************************|
    |---------------+---------------+---------------+---------------|
```

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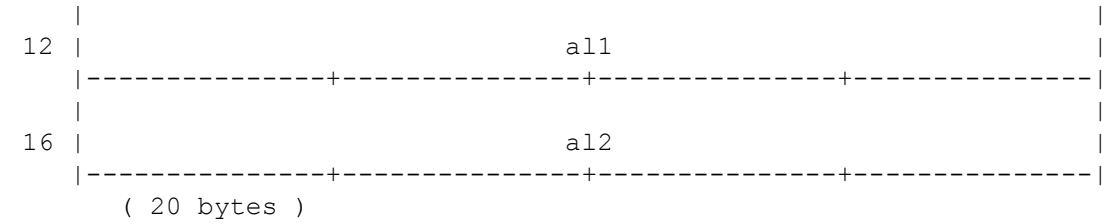


## 4. Population Rules for RLsf50

**Relation Description**
This relation is a dummy placeholder relation.

**Attribute: kbf1**

**Fullname:** Arbitrary 16-Bit Bitfield key

**Attribute Description** Arbitrary 16_bit bitfield key.

**Attribute: kbf2**

**Fullname:** Arbitrary 3-Bit Bitfield Key

**Attribute Description** Arbitrary 3-bit bitfield key.

**Attribute: kb**

**Fullname:** Arbitrary Bit Key

**Attribute Description** Arbitrary bit key.

**Attribute: kc**

**Fullname:** Arbitrary Unsigned Character Key

**Attribute Description** Arbitrary unsigned character key.

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key.

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1.

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2.

**Attribute: ab3**

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**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3.

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4.

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5.

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6.

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7.

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8.

**Attribute: ac1**

**Fullname:** Arbitrary Unsigned Character Attribute 1

**Attribute Description** Arbitrary unsigned character attribute 1.

**Attribute: as**

**Fullname:** Arbitrary Unsigned Short Attribute

**Attribute Description** Arbitrary unsigned short attribute.

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary unsigned long attribute 1.

**Attribute: al2**

**Fullname:** Arbitrary Unsigned Long Attribute 2

**Attribute Description** Arbitrary unsigned long attribute 2.

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# SF51

## 1. Description

Special feature placeholder relation 51.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| application type | NULL |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| trigger function | FCtrsf51 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
SF51        relid = 1440  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     kbf1         DMHEX16       (ushort)  <--- key
     kbf2         DMHEX3        (ushort: 3)  <--- key
 (a) kb           DMBOOL        (enum: 1)  <--- key
     kc           DMHEX8        (ushort: 8)  <--- key
     ksubrid      DMHEX8        (ushort: 8)  <--- key
 (b) ab1          DMBOOL        (enum: 1)
 (c) ab2          DMBOOL        (enum: 1)
 (d) ab3          DMBOOL        (enum: 1)
 (e) ab4          DMBOOL        (enum: 1)
 (f) ab5          DMBOOL        (enum: 1)
 (g) ab6          DMBOOL        (enum: 1)
 (h) ab7          DMBOOL        (enum: 1)
 (i) ab8          DMBOOL        (enum: 1)
     ac1          DMHEX8        (ushort: 8)
     as           DMHEX16       (ushort)
     al1          DMHEX32       (ulong)
     al2          DMHEX32       (ulong)
         User, Compacted and Stored Tuple Layout   SF51
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |     | |               |       |
  0 |              kbf1             | kbf2|a|       kc      |*******|
    |---------------+---------------+---------------+---------------|
    |                | | | | | | | |               |               |
  4 |    ksubrid    |b|c|d|e|f|g|h|i|      ac1      |***************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |               as              |*******************************|
    |---------------+---------------+---------------+---------------|
```

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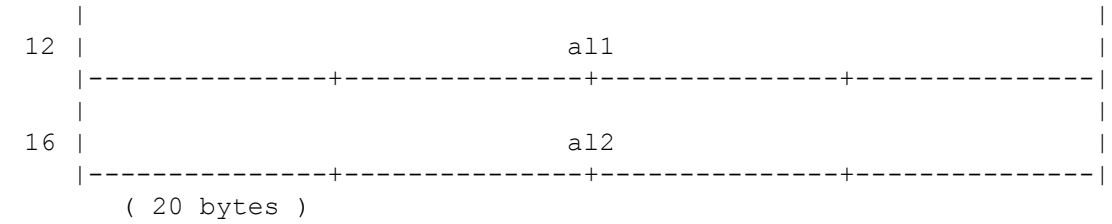


## 4. Population Rules for RLsf51

**Relation Description**
This relation is a dummy placeholder relation.

**Attribute: kbf1**

**Fullname:** Arbitrary 16-Bit Bitfield key

**Attribute Description** Arbitrary 16-bit bitfield key.

**Attribute: kbf2**

**Fullname:** Arbitrary 3-Bit Bitfield Key

**Attribute Description** Arbitrary 3-bit bitfield key.

**Attribute: kb**

**Fullname:** Arbitrary Bit Key

**Attribute Description** Arbitrary bit key.

**Attribute: kc**

**Fullname:** Arbitrary Unsigned Character Key

**Attribute Description** Arbitrary unsigned character key.

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key.

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1.

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2.

**Attribute: ab3**

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**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3.

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4.

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5.

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6.

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7.

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8.

**Attribute: ac1**

**Fullname:** Arbitrary Unsigned Character Attribute 1

**Attribute Description** Arbitrary unsigned character attribute 1.

**Attribute: as**

**Fullname:** Arbitrary Unsigned Short Attribute

**Attribute Description** Arbitrary unsigned short attribute.

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary unsigned long attribute 1.

**Attribute: al2**

**Fullname:** Arbitrary Unsigned Long Attribute 2

**Attribute Description** Arbitrary unsigned long attribute 2.

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# SF52

## 1. Description

Special feature placeholder relation 52.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application type | SWMTC |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
SF52        relid = 2036  DBSTATIC   DBACC_HASH  DBPRAM    LP      SWMTC
     kbf1         DMHEX16      (ushort)  <--- key
     kbf2         DMHEX3       (ushort: 3)  <--- key
 (a) kb           DMBOOL       (enum: 1)  <--- key
     kc           DMHEX8       (ushort: 8)  <--- key
     ksubrid      DMHEX8       (ushort: 8)  <--- key
 (b) ab1          DMBOOL       (enum: 1)
 (c) ab2          DMBOOL       (enum: 1)
 (d) ab3          DMBOOL       (enum: 1)
 (e) ab4          DMBOOL       (enum: 1)
 (f) ab5          DMBOOL       (enum: 1)
 (g) ab6          DMBOOL       (enum: 1)
 (h) ab7          DMBOOL       (enum: 1)
 (i) ab8          DMBOOL       (enum: 1)
     ac1          DMHEX8       (ushort: 8)
     as1          DMHEX16      (ushort)
     al1          DMHEX32      (ulong)
     al2          DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF52
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |     | |               |       |
  0 |              kbf1             | kbf2|a|       kc      |*******|
    |---------------+---------------+---------------+---------------|
    |                | | | | | | | |               |               |
  4 |    ksubrid     |b|c|d|e|f|g|h|i|      ac1      |***************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |              as1              |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                            al1                                |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                            al2                                |
    |---------------+---------------+---------------+---------------|
```

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```
       ( 20 bytes )
```

## 4. Population Rules for RLsf52

**Relation Description**
This relation is a dummy placeholder relation.

Multiple features may use this relation at one time. The subrelation ID key (ksubrid) must be used to distinguish tuples used by different features or tuples that mimic different regular relations.

The following features use this relation as follows:

```
ksubrid         feature/purpose
-------         ---------------
The following is a brief description of each feature:

FEATURE NAME
------------
(Description of feature)
.     .      .
.     .      .
.     .      .
FEATURE NAME
------------
(Description of feature)
```

**Attribute: kbf1**

**Fullname:** Arbitrary 16-Bit Bitfield key

**Attribute Description** Arbitrary 16-bit bitfield key.

**Attribute: kbf2**

**Fullname:** Arbitrary 16-Bit Bitfield Key

**Attribute Description** Arbitrary 3-bit bitfield key.

**Attribute: kb**

**Fullname:** Arbitrary Bit Key

**Attribute Description** Arbitrary bit key.

**Attribute: kc**

**Fullname:** Arbitrary Unsigned Character Key

**Attribute Description** Arbitrary unsigned character key.

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key.

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**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1.

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2.

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3.

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4.

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5.

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6.

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7.

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8.

**Attribute: ac1**

**Fullname:** Arbitrary Unsigned Character Attribute 1

**Attribute Description** Arbitrary unsigned character attribute 1.

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

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**Attribute Description** Arbitrary unsigned short attribute 1.

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary unsigned long attribute 1.

**Attribute: al2**

**Fullname:** Arbitrary Unsigned Long Attribute 2

**Attribute Description** Arbitrary unsigned long attribute 2.

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# SF60

## 1. Description

Special feature placeholder relation 60.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| application type | NULL |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| trigger function | FCtrsf60 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
SF60        relid = 1441  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     ks          DMHEX16      (ushort)  <--- key
     kc          DMHEX8       (ushort: 8)  <--- key
     ksubrid     DMHEX8       (ushort: 8)  <--- key
  (a) ab1        DMBOOL       (enum: 1)
  (b) ab2        DMBOOL       (enum: 1)
  (c) ab3        DMBOOL       (enum: 1)
  (d) ab4        DMBOOL       (enum: 1)
  (e) ab5        DMBOOL       (enum: 1)
  (f) ab6        DMBOOL       (enum: 1)
  (g) ab7        DMBOOL       (enum: 1)
  (h) ab8        DMBOOL       (enum: 1)
     ac1         DMHEX8       (ushort: 8)
     as          DMHEX16      (ushort)
     al1         DMHEX32      (ulong)
     al2         DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF60
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |               ks              |       kc      |    ksubrid    |
    |---------------+---------------+---------------+---------------|
    | | | | | | | | |               |                               |
  4 |a|b|c|d|e|f|g|h|      ac1      |               as              |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                              al1                              |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                              al2                              |
    |---------------+---------------+---------------+---------------|
```

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```
( 16 bytes )
```

## 4. Population Rules for RLsf60

**Relation Description**
Special feature placeholder relation 60.

This relation is a dummy placeholder relation.

**Attribute: ks**

**Fullname:** Arbitrary Unsigned Short Key

**Attribute Description** Arbitrary unsigned short key

**Attribute: kc**

**Fullname:** Arbitrary Unsigned Character Key

**Attribute Description** Arbitrary unsigned character key

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5

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**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8

**Attribute: ac1**

**Fullname:** Arbitrary Unsigned Character Attribute 1

**Attribute Description** Arbitrary unsigned character attribute 1

**Attribute: as**

**Fullname:** Arbitrary Unsigned Short Attribute

**Attribute Description** Arbitrary unsigned short attribute

**Attribute: al1**

**Fullname:** Arbitrary Unsigned Long Attribute 1

**Attribute Description** Arbitrary unsigned long attribute 1

**Attribute: al2**

**Fullname:** Arbitrary Unsigned Long Attribute 2

**Attribute Description** Arbitrary Unsigned Long Attribute 2

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# SF70

## 1. Description

Special feature placeholder relation 70.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| application type | NULL |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| trigger function | FCtrsf70 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
SF70        relid = 1442  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     kdn          DMBCD_DN     (struct)     <--- key
         dn0          DMUNS4       (ushort: 4)
         dn1          DMUNS4       (ushort: 4)
         dn2          DMUNS4       (ushort: 4)
         dn3          DMUNS4       (ushort: 4)
         dn4          DMUNS4       (ushort: 4)
         dn5          DMUNS4       (ushort: 4)
         dn6          DMUNS4       (ushort: 4)
         dn7          DMUNS4       (ushort: 4)
         dn8          DMUNS4       (ushort: 4)
         dn9          DMUNS4       (ushort: 4)
         dn10         DMUNS4       (ushort: 4)
         dn11         DMUNS4       (ushort: 4)
         dn12         DMUNS4       (ushort: 4)
         dn13         DMUNS4       (ushort: 4)
         dn14         DMUNS4       (ushort: 4)
         digcnt       DMDIGCNT     (uchar: 4)
     ksubrid      DMHEX8       (ushort: 8)     <--- key
  (a) ab1          DMBOOL       (enum: 1)
  (b) ab2          DMBOOL       (enum: 1)
  (c) ab3          DMBOOL       (enum: 1)
  (d) ab4          DMBOOL       (enum: 1)
  (e) ab5          DMBOOL       (enum: 1)
  (f) ab6          DMBOOL       (enum: 1)
  (g) ab7          DMBOOL       (enum: 1)
  (h) ab8          DMBOOL       (enum: 1)
     as           DMHEX16      (ushort)
     al           DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF70
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
```

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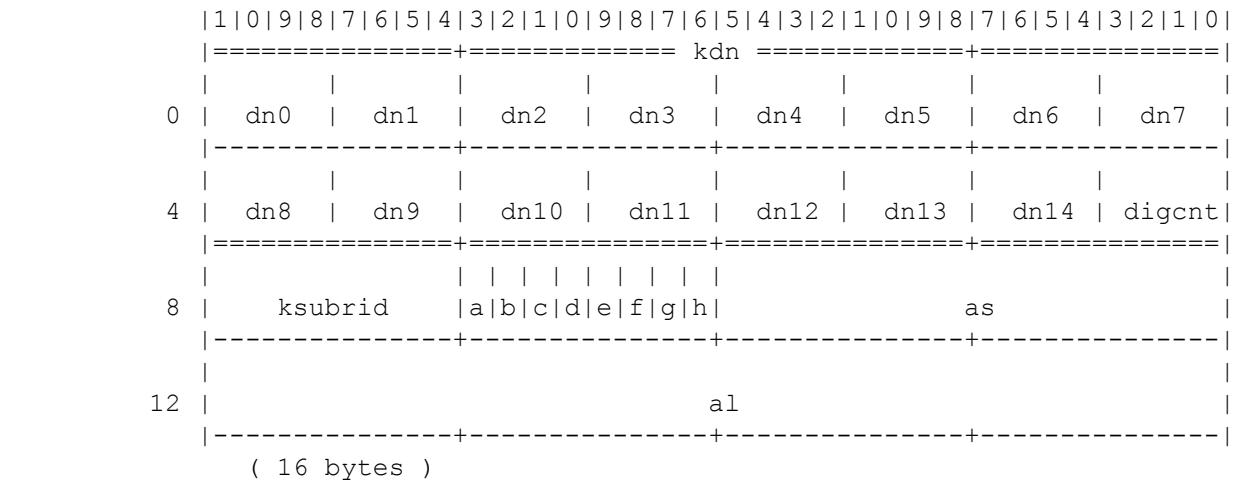


## 4. Population Rules for RLsf70

**Relation Description**
Special Feature Placeholder Relation 70.

This relation is a dummy placeholder relation.

**Attribute: kdn**

**Fullname:** Packed 15 Digits + Count Key

**Attribute Description** Packed 15 digits + count key.

**Attribute: kdn.dn0**

**Fullname:** Digit0 of DN

**Attribute Description** Digit 0 of directory number.

**Attribute: kdn.dn1**

**Fullname:** Digit1 of DN

**Attribute Description** Digit 1 of directory number.

**Attribute: kdn.dn2**

**Fullname:** Digit2 of DN

**Attribute Description** Digit 2 of directory number.

**Attribute: kdn.dn3**

**Fullname:** Digit3 of DN

**Attribute Description** Digit 3 of directory number.

**Attribute: kdn.dn4**

**Fullname:** Digit4 of DN

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**Attribute Description** Digit 4 of directory number.

**Attribute: kdn.dn5**

**Fullname:** Digit5 of DN

**Attribute Description** Digit 5 of directory number.

**Attribute: kdn.dn6**

**Fullname:** Digit6 of DN

**Attribute Description** Digit 6 of directory number.

**Attribute: kdn.dn7**

**Fullname:** Digit7 of DN

**Attribute Description** Digit 7 of directory number.

**Attribute: kdn.dn8**

**Fullname:** Digit8 of DN

**Attribute Description** Digit 8 of directory number.

**Attribute: kdn.dn9**

**Fullname:** Digit9 of DN

**Attribute Description** Digit 9 of directory number.

**Attribute: kdn.dn10**

**Fullname:** Digit10 of DN

**Attribute Description** Digit 10 of directory number.

**Attribute: kdn.dn11**

**Fullname:** Digit11 of DN

**Attribute Description** Digit 11 of directory number.

**Attribute: kdn.dn12**

**Fullname:** Digit12 of DN

**Attribute Description** Digit 12 of directory number.

**Attribute: kdn.dn13**

**Fullname:** Digit13 of DN

**Attribute Description** Digit 13 of directory number.

**Attribute: kdn.dn14**

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**Fullname:** Digit14 of DN

**Attribute Description** Digit 14 of directory number.

**Attribute: kdn.digcnt**

**Fullname:** Digit Counter

**Attribute Description** Digit counter.

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Sub-relation identifier key.

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1.

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2.

**Attribute: ab3**

**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3.

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4.

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5.

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary Bit Attribute 6.

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7.

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**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8.

**Attribute: as**

**Fullname:** Arbitrary Unsigned Short Attribute

**Attribute Description** Arbitrary unsigned short attribute.

**Attribute: al**

**Fullname:** Arbitrary Unsigned Long Attribute

**Attribute Description** Arbitrary unsigned long attribute.

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# SF80

## 1. Description

Special feature placeholder relation 80.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| application type | NULL |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| trigger function | FCtrsf80 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
SF80        relid = 1443  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     ks           DMHEX16      (ushort)  <--- key
     kbf1         DMHEX4       (ushort: 4)  <--- key
     kbf2         DMHEX16      (ushort)  <--- key
     kc           DMHEX8       (ushort: 8)  <--- key
     ksubrid      DMHEX8       (ushort: 8)  <--- key
  (a) ab1         DMBOOL       (enum: 1)
  (b) ab2         DMBOOL       (enum: 1)
  (c) ab3         DMBOOL       (enum: 1)
  (d) ab4         DMBOOL       (enum: 1)
  (e) ab5         DMBOOL       (enum: 1)
  (f) ab6         DMBOOL       (enum: 1)
  (g) ab7         DMBOOL       (enum: 1)
  (h) ab8         DMBOOL       (enum: 1)
     ac1          DMHEX8       (ushort: 8)
     as1          DMHEX16      (ushort)
     as2          DMHEX16      (ushort)
     al           DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout   SF80
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |       |                       |
  0 |               ks              |  kbf1 |***********************|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  4 |              kbf2             |       kc      |    ksubrid    |
    |---------------+---------------+---------------+---------------|
    | | | | | | | | |               |                               |
  8 |a|b|c|d|e|f|g|h|      ac1      |              as1              |
    |---------------+---------------+---------------+---------------|
```

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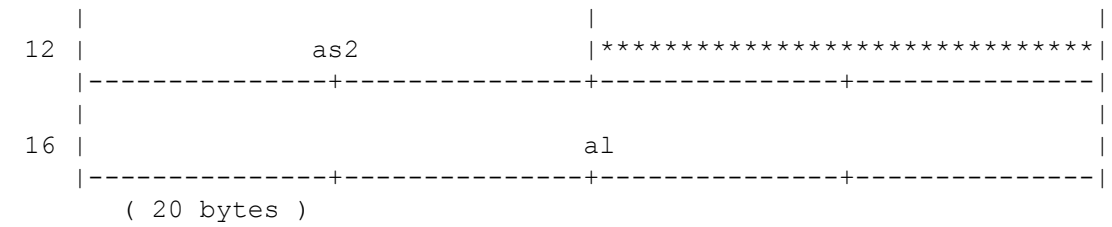


## 4. Population Rules for RLsf80

**Relation Description**
This relation is a dummy placeholder relation.

**Attribute: ks**

**Fullname:** Arbitrary Unsigned Short Key

**Attribute Description** Arbitrary unsigned short key.

**Attribute: kbf1**

**Fullname:** Arbitrary 4-Bit Bitfield key

**Attribute Description** Arbitrary 4-bit bitfield key.

**Attribute: kbf2**

**Fullname:** Arbitrary 16-Bit Bitfield Key

**Attribute Description** Arbitrary 16-bit bitfield key.

**Attribute: kc**

**Fullname:** Arbitrary Unsigned Character Key

**Attribute Description** Arbitrary unsigned character key.

**Attribute: ksubrid**

**Fullname:** Subrelation Identifier Key

**Attribute Description** Subrelation identifier key.

**Attribute: ab1**

**Fullname:** Arbitrary Bit Attribute 1

**Attribute Description** Arbitrary bit attribute 1.

**Attribute: ab2**

**Fullname:** Arbitrary Bit Attribute 2

**Attribute Description** Arbitrary bit attribute 2.

**Attribute: ab3**

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**Fullname:** Arbitrary Bit Attribute 3

**Attribute Description** Arbitrary bit attribute 3.

**Attribute: ab4**

**Fullname:** Arbitrary Bit Attribute 4

**Attribute Description** Arbitrary bit attribute 4.

**Attribute: ab5**

**Fullname:** Arbitrary Bit Attribute 5

**Attribute Description** Arbitrary bit attribute 5.

**Attribute: ab6**

**Fullname:** Arbitrary Bit Attribute 6

**Attribute Description** Arbitrary bit attribute 6.

**Attribute: ab7**

**Fullname:** Arbitrary Bit Attribute 7

**Attribute Description** Arbitrary bit attribute 7.

**Attribute: ab8**

**Fullname:** Arbitrary Bit Attribute 8

**Attribute Description** Arbitrary bit attribute 8.

**Attribute: ac1**

**Fullname:** Arbitrary Unsigned Character Attribute 1

**Attribute Description** Arbitrary unsigned character attribute 1.

**Attribute: as1**

**Fullname:** Arbitrary Unsigned Short Attribute 1

**Attribute Description** Arbitrary unsigned short attribute 1.

**Attribute: as2**

**Fullname:** Arbitrary Unsigned Short Attribute 2

**Attribute Description** Arbitrary unsigned short attribute 2.

**Attribute: al**

**Fullname:** Arbitrary Unsigned Long Attribute

**Attribute Description** Arbitrary unsigned long attribute.

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# SFG_ASFC

## 1. Description

SFG alternate service feature code - relation associating ASFC with SFG number for enhanced INWATS type AMA (EITA) special feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 150 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |

## 3. Field Layout

```
SFG_ASFC    relid = 1446  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     grpnum      DMGRPNUM     (ushort)  <--- key
     alt_sfc     DMUNS10      (ushort: 10)
 (a) spbit1      DMBOOL       (enum: 1)
 (b) spbit2      DMBOOL       (enum: 1)
 (c) spbit3      DMBOOL       (enum: 1)
 (d) spbit4      DMBOOL       (enum: 1)
 (e) spbit5      DMBOOL       (enum: 1)
 (f) spbit6      DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   SFG_ASFC
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                   | | | | | | |
 0 |             grpnum            |      alt_sfc      |a|b|c|d|e|f|
   |---------------+---------------+---------------+---------------|
      ( 4 bytes )
```

## 4. Population Rules for RLsfg_asfc

**Relation Description**
Alternate service feature code.

This relation provides a mapping from sfg number to asfc for the Enhanced INWATS Type AMA (EITA) special feature. Customers who purchase EITA can choose a number between 800 and 999 to be placed on the AMA record for INWATS type calls instead of the current value of 08. Each tuple in this relation must match up with an already existing INWATS SFG.

"The range of asfc is 800-999. If there is no alternate service feature code specified for a particular sfg then there should be no tuple for that sfg in this relation. The max number of tuples is 150, the expected number is 50 to 100."

**Attribute: grpnum**

**Fullname:** SF Group Number

**Attribute Description** The INWATS SFG number that has an alternate service feature code associated with it.

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**Attribute: alt_sfc**

**Fullname:** Alternate Service Feature Code

**Attribute Description** The alternate service feature code to be used in place of the default value of 08 for INWATS when this feature is purchased.

**Attribute: spbit1**

**Fullname:** spare bit 1

**Attribute Description** This names the spare bits in this relation to ease future use of this relation.

**Attribute: spbit2**

**Fullname:** spare bit 2

**Attribute Description** This names the spare bits in this relation to ease future use of this relation.

**Attribute: spbit3**

**Fullname:** spare bit 3

**Attribute Description** This names the spare bits in this relation to ease future use of this relation.

**Attribute: spbit4**

**Fullname:** spare bit 4

**Attribute Description** This names the spare bits in this relation to ease future use of this relation.

**Attribute: spbit5**

**Fullname:** spare bit 5

**Attribute Description** This names the spare bits in this relation to ease future use of this relation.

**Attribute: spbit6**

**Fullname:** spare bit 6

**Attribute Description** This names the spare bits in this relation to ease future use of this relation.

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# SFG_R

## 1. Description

Store the make busy key and busy lamp, required for the review operation by the Simulated Facility Group view mapping function vrtsfg.c.

This is a root storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 300 |
| expected number of tuples | 300 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTORAGE |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |
| index length | 5 |
| ks keystore | DBNO |
| permutation type | perm |

## 3. Field Layout

```
SFG_R       relid = 1715  DBSTORAGE  DBACC_CIND  DBPRAM    LP      RCDATA
     grpnum      DMGRUPNM     (ushort: 11)  <--- key, not stored
     busykey     DMGK14       (ulong: 14)
     busylamp    DMGK14       (ulong: 14)
         User and Compacted Tuple Layout  SFG_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
  0 |         grpnum        |***************************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
  4 |           busykey             |           busylamp            |*******|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     busykey     DMGK14       (ulong: 14)
     busylamp    DMGK14       (ulong: 14)
           Stored Tuple Layout    SFG_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
  0 |           busykey             |           busylamp            |*******|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLsfg_r

There are no population rules for this relation.

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# SHDA_G

## 1. Description

The storage relation for RLshterm. Contains redundant shared attributes.

This is a child storage relation

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10485 |
| expected number of tuples | 5 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTORAGE |
| ks key store | AUTO |
| fold type | DBGC31 |
| gkidxrel — generated key index relation | rlSHDA_I |

## 3. Field Layout

```
SHDA_G      relid = 1660  DBSTORAGE  DBACC_GK    DBPRAM    FG      NULL
     gkSHDA_G    DMGK14       (ulong: 14)  <--- key, not stored
     todid       DMFACID      (ushort)
     ad_time     DMUCHAR      (uchar)
     shtm_cnt    DMUSECNT     (uchar: 5)
 (a) ffcf1       DMBOOL       (enum: 1)
 (b) ffcf2       DMBOOL       (enum: 1)
 (c) ffcf3       DMBOOL       (enum: 1)
 (d) ffcf4       DMBOOL       (enum: 1)
 (e) std_grp     DMBOOL       (enum: 1)
         User and Compacted Tuple Layout     SHDA_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkSHDA_G             |
    |---------------+---------------+---------------+---------------|
    |                               |               |         | | | |
  4 |             todid             |    ad_time    | shtm_cnt|a|b|c|
    |---------------+---------------+---------------+---------------|
    | | |                                                           |
  8 |d|e|***********************************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
     todid       DMFACID      (ushort)
     ad_time     DMUCHAR      (uchar)
     shtm_cnt    DMUSECNT     (uchar: 5)
 (a) ffcf1       DMBOOL       (enum: 1)
 (b) ffcf2       DMBOOL       (enum: 1)
 (c) ffcf3       DMBOOL       (enum: 1)
 (d) ffcf4       DMBOOL       (enum: 1)
 (e) std_grp     DMBOOL       (enum: 1)
           Stored Tuple Layout   SHDA_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
```

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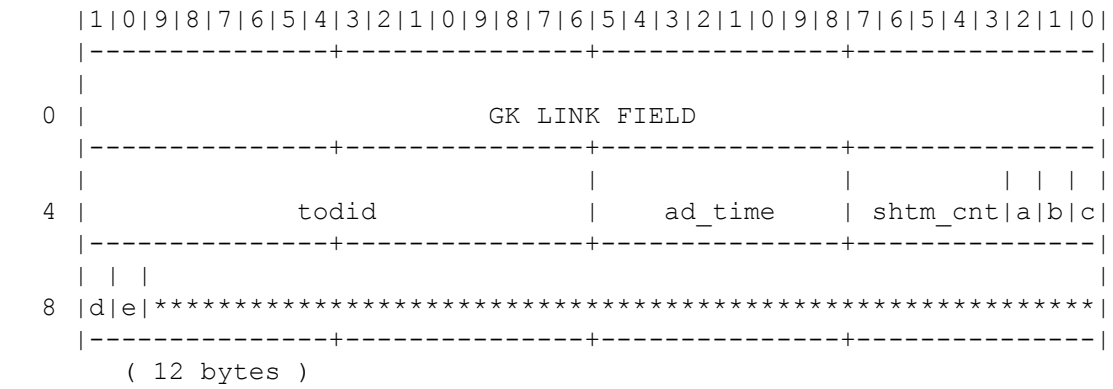


## 4. Population Rules for RLshda_g

There are no population rules for this relation.

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# SHRD_G

## 1. Description

The storage relation for RLshterm. This relation contains four shared terminals.

This is a child storage relation

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10000 |
| expected tuples in relation | 500 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTORAGE |
| head table size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| index length | 0 |
| i2 index into intermediate page | 0 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel - generated key index relation | rlSHRD_I |

## 3. Field Layout

```
SHRD_G      relid = 1662  DBSTORAGE  DBACC_GK    DBPRAM    FG      NULL
     gkSHRD_G    DMGK14       (ulong: 14)  <--- key, not stored
     shared1     DMSHAR       (struct)
         lport       DMLPORT      (ushort: 16)
 (a)     subaddr_cnt  DMSUBADDR    (uchar: 4)
         module      DMMODULE     (ushort: 8)
         frst_ca     DMCALLAP     (uchar: 8)
 (b)     termno      DMTERMNO     (uchar: 1)
 (c)     callexcl    DMCALLEXCL   (enum: 2)
 (d)     ad_pat      DMADPAT      (enum: 3)
         dsl_group   DMPHNBR      (uchar: 7)
     shared2     DMSHAR       (struct)
         lport       DMLPORT      (ushort: 16)
 (e)     subaddr_cnt  DMSUBADDR    (uchar: 4)
         module      DMMODULE     (ushort: 8)
         frst_ca     DMCALLAP     (uchar: 8)
 (f)     termno      DMTERMNO     (uchar: 1)
 (g)     callexcl    DMCALLEXCL   (enum: 2)
 (h)     ad_pat      DMADPAT      (enum: 3)
         dsl_group   DMPHNBR      (uchar: 7)
     shared3     DMSHAR       (struct)
         lport       DMLPORT      (ushort: 16)
 (i)     subaddr_cnt  DMSUBADDR    (uchar: 4)
         module      DMMODULE     (ushort: 8)
         frst_ca     DMCALLAP     (uchar: 8)
 (j)     termno      DMTERMNO     (uchar: 1)
 (k)     callexcl    DMCALLEXCL   (enum: 2)
 (l)     ad_pat      DMADPAT      (enum: 3)
         dsl_group   DMPHNBR      (uchar: 7)
```

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```
    shared4     DMSHAR       (struct)
        lport       DMLPORT      (ushort: 16)
(m)     subaddr_cnt  DMSUBADDR    (uchar: 4)
        module      DMMODULE     (ushort: 8)
        frst_ca     DMCALLAP     (uchar: 8)
(n)     termno      DMTERMNO     (uchar: 1)
(o)     callexcl    DMCALLEXCL   (enum: 2)
(p)     ad_pat      DMADPAT      (enum: 3)
        dsl_group   DMPHNBR      (uchar: 7)
        User and Compacted Tuple Layout     SHRD_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 0 |*********************************|          gkSHRD_G             |
   |===============+=========== shared1 ===========+===============|
   |                                 |       |               |       |
 4 |             lport               |   a   |     module    |*******|
   |---------------+---------------+---------------+---------------|
   |               | |   |     |   |             |                 |
 8 |    frst_ca    |b| c |  d  |***|  dsl_group  |*****************|
   |===============+=========== shared2 ===========+===============|
   |                                 |       |               |       |
12 |             lport               |   e   |     module    |*******|
   |---------------+---------------+---------------+---------------|
   |               | |   |     |   |             |                 |
16 |    frst_ca    |f| g |  h  |***|  dsl_group  |*****************|
   |===============+=========== shared3 ===========+===============|
   |                                 |       |               |       |
20 |             lport               |   i   |     module    |*******|
   |---------------+---------------+---------------+---------------|
   |               | |   |     |   |             |                 |
24 |    frst_ca    |j| k |  l  |***|  dsl_group  |*****************|
   |===============+=========== shared4 ===========+===============|
   |                                 |       |               |       |
28 |             lport               |   m   |     module    |*******|
   |---------------+---------------+---------------+---------------|
   |               | |   |     |   |             |                 |
32 |    frst_ca    |n| o |  p  |***|  dsl_group  |*****************|
   |===============+===============+===============+===============|
     ( 36 bytes )

    shared1     DMSHAR       (struct)
        lport       DMLPORT      (ushort: 16)
(a)     subaddr_cnt  DMSUBADDR    (uchar: 4)
        module      DMMODULE     (ushort: 8)
        frst_ca     DMCALLAP     (uchar: 8)
(b)     termno      DMTERMNO     (uchar: 1)
(c)     callexcl    DMCALLEXCL   (enum: 2)
(d)     ad_pat      DMADPAT      (enum: 3)
        dsl_group   DMPHNBR      (uchar: 7)
    shared2     DMSHAR       (struct)
        lport       DMLPORT      (ushort: 16)
(e)     subaddr_cnt  DMSUBADDR    (uchar: 4)
```

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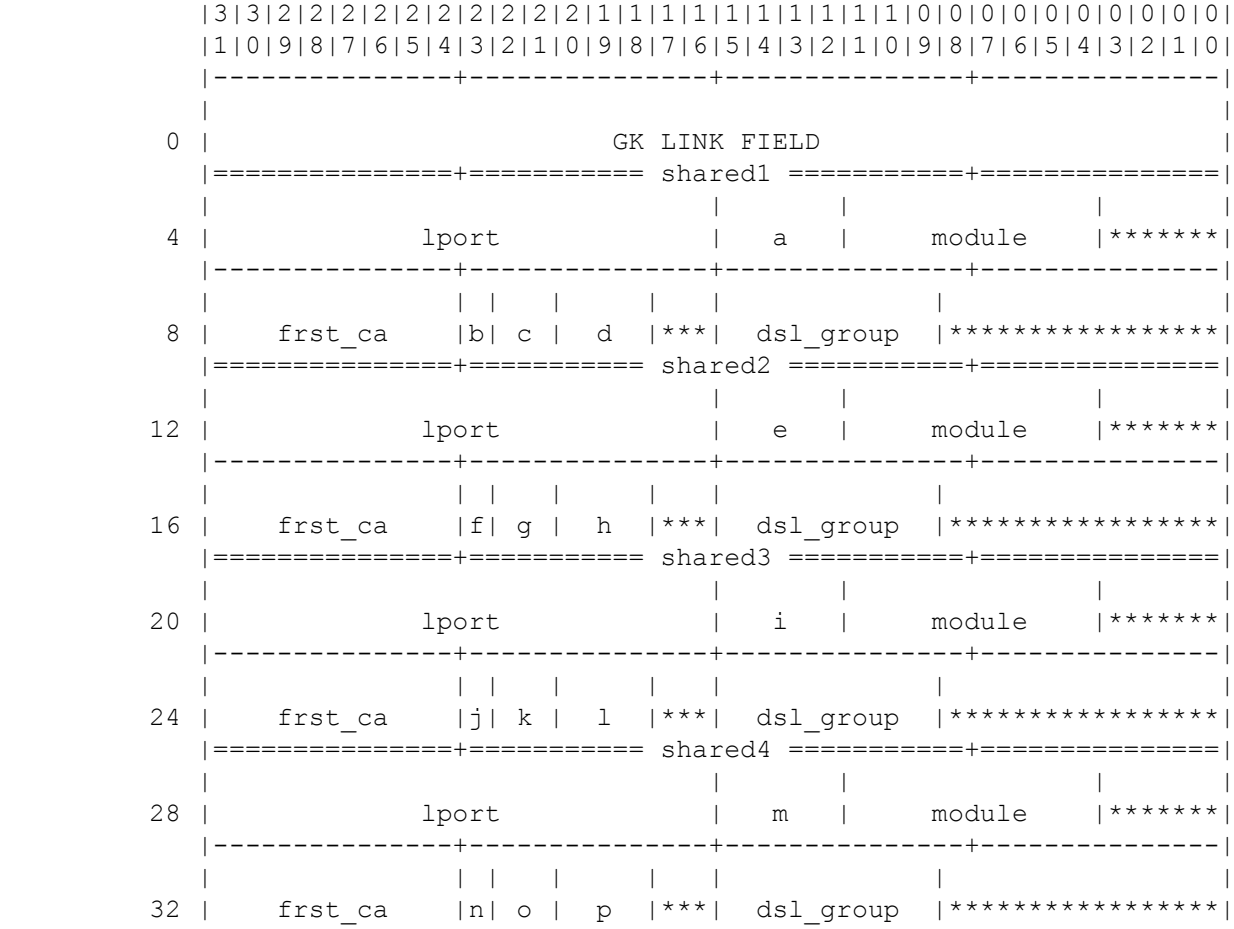
```
        module      DMMODULE     (ushort: 8)
        frst_ca     DMCALLAP     (uchar: 8)
(f)     termno      DMTERMNO     (uchar: 1)
(g)     callexcl    DMCALLEXCL   (enum: 2)
(h)     ad_pat      DMADPAT      (enum: 3)
        dsl_group   DMPHNBR      (uchar: 7)
    shared3     DMSHAR       (struct)
        lport       DMLPORT      (ushort: 16)
(i)     subaddr_cnt  DMSUBADDR    (uchar: 4)
        module      DMMODULE     (ushort: 8)
        frst_ca     DMCALLAP     (uchar: 8)
(j)     termno      DMTERMNO     (uchar: 1)
(k)     callexcl    DMCALLEXCL   (enum: 2)
(l)     ad_pat      DMADPAT      (enum: 3)
        dsl_group   DMPHNBR      (uchar: 7)
    shared4     DMSHAR       (struct)
        lport       DMLPORT      (ushort: 16)
(m)     subaddr_cnt  DMSUBADDR    (uchar: 4)
        module      DMMODULE     (ushort: 8)
        frst_ca     DMCALLAP     (uchar: 8)
(n)     termno      DMTERMNO     (uchar: 1)
(o)     callexcl    DMCALLEXCL   (enum: 2)
(p)     ad_pat      DMADPAT      (enum: 3)
        dsl_group   DMPHNBR      (uchar: 7)
```

Stored Tuple Layout SHRD_G

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```
|===============+===============+===============+===============|
   ( 36 bytes )
```

## 4. Population Rules for RLshrd_g

There are no population rules for this relation.

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# SHTERM

## 1. Description

This relation contains the associated terminal information for a shared DN plus the lead port information. The lead port is the primary terminal where the DN is located.

This is a virtual relation. The tree diagram Figure 1 depicts the stored structure of virtual relation SHTERM.

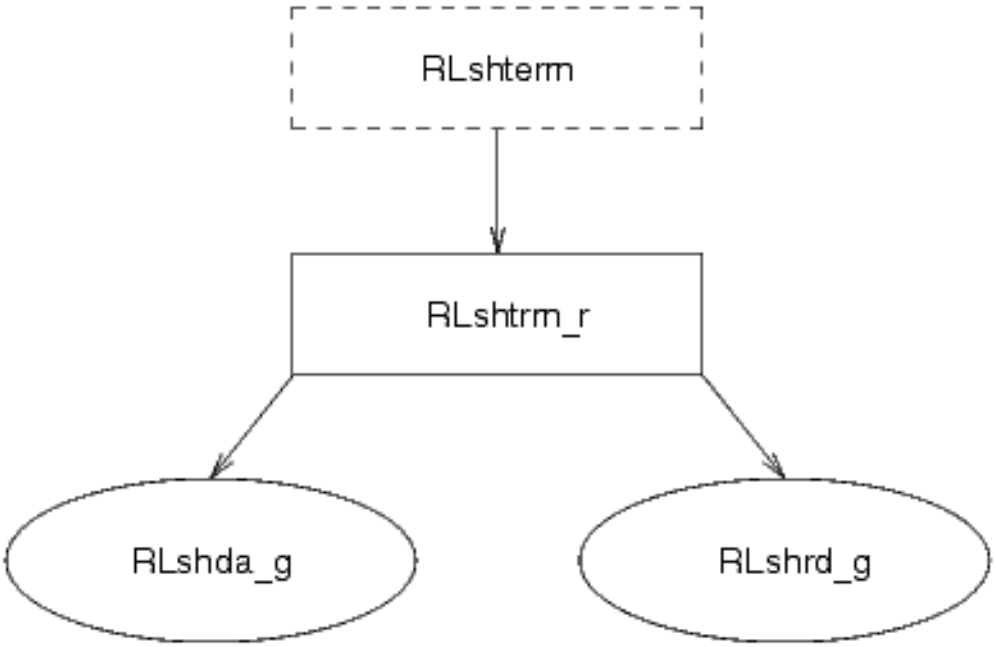


**Figure 1 Virtual Relation SHTERM**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FG |
| relation type | DBSTATIC |
| trigger function | DBtrshterm |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| permutation type | unperm |

## 3. Field Layout

```
SHTERM      relid = 871   DBSTATIC   DBACC_OPV   DBNOTODD  FG      NULL
     lead_module DMMODULE     (ushort: 8)     <--- key
     range       DMUNS3       (ushort: 3)     <--- key
     ltm_idxi    DMLTM_IDX    (ulong: 16)     <--- key
     eponum      DMEPONUM     (ushort: 14)
 (a) ffcf1       DMBOOL       (enum: 1)
 (b) ffcf2       DMBOOL       (enum: 1)
 (c) ffcf3       DMBOOL       (enum: 1)
 (d) ffcf4       DMBOOL       (enum: 1)
 (e) std_grp     DMBOOL       (enum: 1)
     shtm_cnt    DMUSECNT     (uchar: 5)
```

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```
    ad_time     DMUCHAR      (uchar)
    todid       DMFACID      (ushort)
    shared1     DMSHAR       (struct)
        lport       DMLPORT      (ushort: 16)
(f)     subaddr_cnt DMSUBADDR    (uchar: 4)
        module      DMMODULE     (ushort: 8)
(g)     epo_on      DMBOOL       (enum: 1)
(h)     is_epos     DMBOOL       (enum: 1)
        frst_ca     DMCALLAP     (uchar: 8)
(i)     termno      DMTERMNO     (uchar: 1)
(j)     callexcl    DMCALLEXCL   (enum: 2)
(k)     ad_pat      DMADPAT      (enum: 3)
        dsl_group   DMPHNBR      (uchar: 7)
    shared2     DMSHAR       (struct)
        lport       DMLPORT      (ushort: 16)
(l)     subaddr_cnt DMSUBADDR    (uchar: 4)
        module      DMMODULE     (ushort: 8)
(m)     epo_on      DMBOOL       (enum: 1)
(n)     is_epos     DMBOOL       (enum: 1)
        frst_ca     DMCALLAP     (uchar: 8)
(o)     termno      DMTERMNO     (uchar: 1)
(p)     callexcl    DMCALLEXCL   (enum: 2)
(q)     ad_pat      DMADPAT      (enum: 3)
        dsl_group   DMPHNBR      (uchar: 7)
    shared3     DMSHAR       (struct)
        lport       DMLPORT      (ushort: 16)
(r)     subaddr_cnt DMSUBADDR    (uchar: 4)
        module      DMMODULE     (ushort: 8)
(s)     epo_on      DMBOOL       (enum: 1)
(t)     is_epos     DMBOOL       (enum: 1)
        frst_ca     DMCALLAP     (uchar: 8)
(u)     termno      DMTERMNO     (uchar: 1)
(v)     callexcl    DMCALLEXCL   (enum: 2)
(w)     ad_pat      DMADPAT      (enum: 3)
        dsl_group   DMPHNBR      (uchar: 7)
    shared4     DMSHAR       (struct)
        lport       DMLPORT      (ushort: 16)
(x)     subaddr_cnt DMSUBADDR    (uchar: 4)
        module      DMMODULE     (ushort: 8)
(y)     epo_on      DMBOOL       (enum: 1)
(z)     is_epos     DMBOOL       (enum: 1)
        frst_ca     DMCALLAP     (uchar: 8)
(A)     termno      DMTERMNO     (uchar: 1)
(B)     callexcl    DMCALLEXCL   (enum: 2)
(C)     ad_pat      DMADPAT      (enum: 3)
        dsl_group   DMPHNBR      (uchar: 7)

        User, Compacted and Stored Tuple Layout SHTERM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |     |                                 |         |
 0 |  lead_module  |range|            ltm_idxi            |*********|
   |---------------+---------------+---------------+---------------|
```

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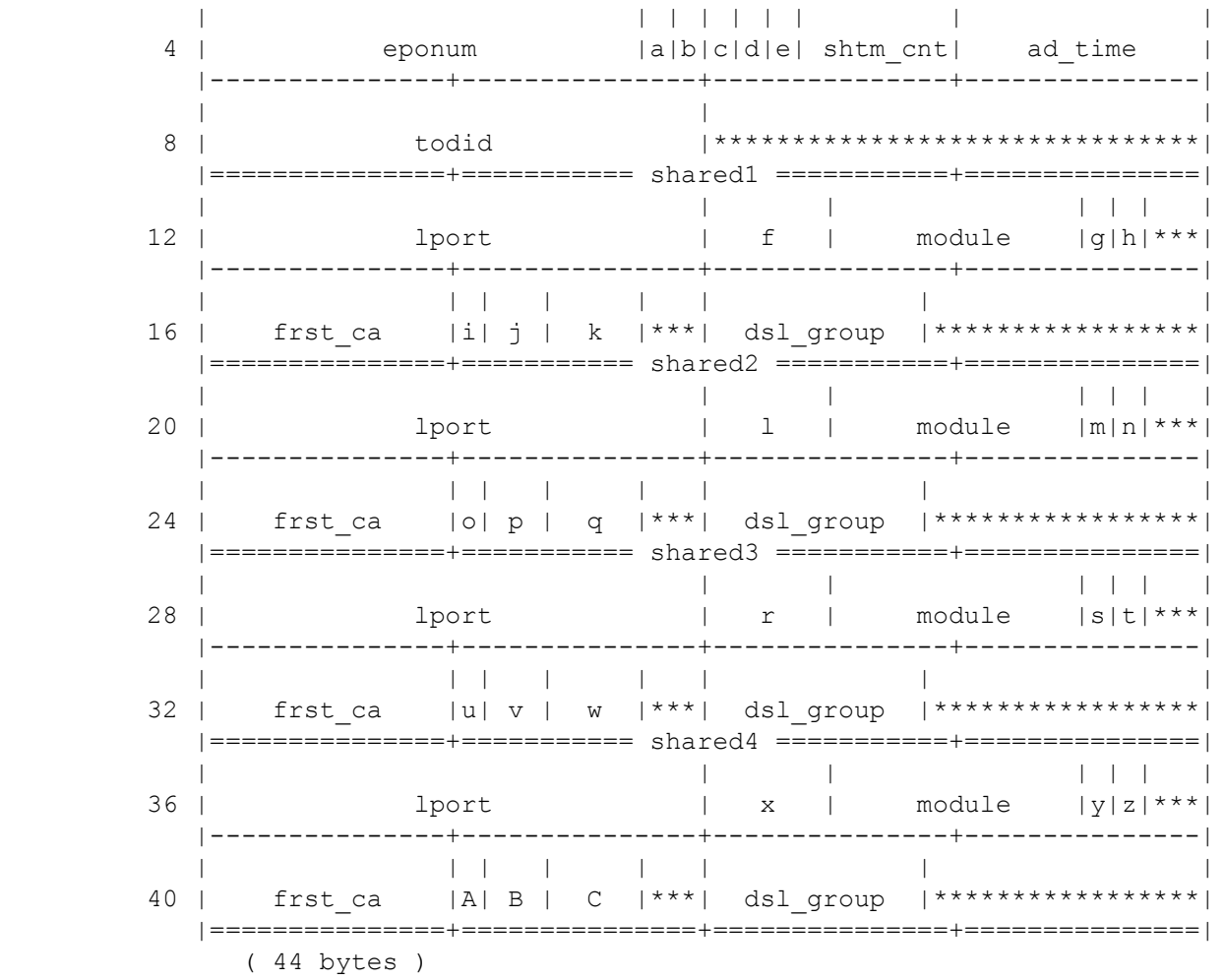


## 4. Population rules for RLshterm

### Relation Description

Shared terminal.
Provides the lead terminal for this directory number followed by a list of associated terminals that share this ltm_idxi (DN or MLHG member).

**Attribute:**
lead_module
**Fullname:**
lead module.
**Attribute Description:**
lead switching module for the DN or member represented by the ltm_idxi

**Attribute:**
range
**Fullname:**
Range.

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**Attribute Description:**

Denotes the range for groups of 4 shared
terminals. There can be at most 32 shared terminals.
1 lead terminal and 31 associated terminals.
0 denotes 1 shterm tuple ... 1 denotes 2 tuples.
2 denotes 3 shterm tuple ... 3 denotes 4 tuples.
4 denotes 5 shterm tuple ... 5 denotes 6 tuples.
6 denotes 7 shterm tuple ... 7 denotes 8 tuples.
There is always range 0 for RLis_line(lead_module,ltm_idxi).shared
set to DBYES, and range 1 will exist when shtm_cnt > 3.
range 2 will exist when shtm_cnt > 7.
range 3 will exist when shtm_cnt > 11.
range 4 will exist when shtm_cnt > 15.
range 5 will exist when shtm_cnt > 19.
range 6 will exist when shtm_cnt > 23.
range 7 will exist when shtm_cnt > 27.

**Attribute:**

ltm_idxi

**Fullname:**

logical termination index.

**Attribute Description:**

logical termination index.

**Attribute:**

eponum

**Fullname:**

enhanced professional office position number

**Attribute Description:**

This attribute contains the Enhanced Professional Office (EPO)
position number. It consists of the EPO position number assigned
to one of the terminals sharing this DN or MLHG member.
If this attribute is greater than zero, there must be a tuple
in RLshterm for this DN or MLHG member where the first entry of
the lowest range keyed tuple (starting from range 0 to range 7)
has a RLshterm.shared[] structure where the shared[*].is_epos is DBYES,
the shared[*].epo_on is DBYES (that is, the DN is being tracked), and
the shared[*].subaddr_cnt has a value that is greater or equal to
all other shared[] entries that have shared[*].is_epos and
shared[*].epo_on set to DBYES.
If there are no DNs being tracked, any entry in RLshterm.shared[]
of any range keyed tuple where the shared[*].is_epos is DBYES can
be used. The "eponum" attribute in the associated RLis_term tuple
for the selected entry must match this attribute.

**Attribute:**

ffcf[*]

**Fullname:**

Future feature field.

**Attribute Description:**

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boolean reserved for future field feature use.

**Attribute:**
std_grp
**Fullname:**
Standard Group.
**Attribute Description:**
Indicates whether or not the group is Bellcore Standard BRI.

**Attribute:**
shtm_cnt
**Fullname:**
terminals sharing count.
**Attribute Description:**
For range equal 0 indicates the total number minus 1 of terminals sharing this DN and valid shtm_cnt values are 1 to 31. For range greater than 0, shtm_cnt must be 0.

**Attribute:**
ad_time
**Fullname:**
Abbreviated/Delayed ringing time.
**Attribute Description:**
Abbreviated/Delayed ringing time in seconds. A key system group may have at most one time value where ringing is delayed and/or abbreviated. If any shared*.ad_pat is ADDELAY, ADDELRID or ADABBREV, then ad_time must be non-zero in tuple (range=0), otherwise if none of shared*.ad_pat is ADDELAY, ADDELRID or ADABBREV, then ad_time must be 0 in tuple (range=0).
Must be 0 in (range > 0) tuple.
Default: 12 sec (two ring cycles)
when shared[].ad_pat is_in { ADDELAY,ADDELRID,ADABBREV }

**Attribute:**
todid
**Fullname:**
time of day identifier.
**Attribute Description:**
When a TOD feature is assigned or deleted from the primary DN, 'todid' in RLshterm need to be updated. This field has default value for secondary only DN's.
On the primary DN,
shterm.todid = trmfeats.todid
If RLis_line(ltm_idxi, lead_module).primary is DBYES and RLtrmfeats(RLlpt_pt(lport,lpt_type=LPT_ISDN).port).todid is non-zero, then this todid must be the same as RLtrmfeats.todid.

**Attribute:**

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shared[*]

**Fullname:**

shared.

**Attribute Description:**

Each tuple can denote the sharing of up to 4 terminals. shared1 thru shared4 must be filled sequentially without gaps. These attributes provide the key for the RLtermkydn relation on the module where the port is. The lead port is populated in shared1 in RLshterm.range = 0. The rest of the sharedX entries are for the associated terminals.

**Attribute:**

shared[*].lport

**Fullname:**

logical port.

**Attribute Description:**

logical port number of the port associated with the DSL or shared analog port. Also see previous module. For DSL ports must have an entry in RLis_term using this attribute as the key along with termno. Must have a tuple in RLtermkydn or RLcgpn_ltm keyed by this attribute.

Note: For shared analog lports there are no related RLis_term or RLtermkydn tuples.

Note: For BASIC EKTS(TM) tuples, there are no related RLtermkydn tuples. See RLis_line poprules for crosschecks

**Attribute:**

shared[*].subaddr_cnt

**Fullname:**

subaddresses count.

**Attribute Description:**

Indicates the number of subaddresses minus 1 associated with this terminal for this ltm_idxi.

**Attribute:**

shared[*].module

**Fullname:**

module.

**Attribute Description:**

Corresponding Switching Module of the lport for which this ltm_idxi is shared. The following restriction should be exercised only if TFOS (Transparency Feature Option) number 038 is not set. This option allows the customers to have Shared DN groups across SM/RSM clusters.

For 5E8, RC and ODA must sort the terminal information both by module and dsl_group. The lead_port must still remain

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to be the first entry in the shared data. All terminals residing on the same module will be grouped with the lead_port. Also, terminals on the same PH will be immediately after the first terminal. Subsequent entries on the lead module will be sorted in ascending order by the dsl_group. After no more entries are found on the lead_module the lowest module number will appear next. The terminals will be first sorted in ascending order by SM then by the PH number. Also, inside each module grouping the terminals will be sorted in ascending order by PH.

```
EXAMPLE:TERM # SM      PH
         1     3       16      lead port
         2     3       1
         3     1       5
         4     12      1
         5     3       16
         6     1       1
         7     2       12
         8     10      2

SORTED Version of previous:
         1     3       16      lead port does not move
         2     3       16      was TERM 5
         3     3       1       was TERM 2
         4     1       1       was TERM 6
         5     1       5       was TERM 3
         6     2       12      was TERM 7
         7     10      2       was TERM 8
         8     12      1       was TERM 4
```

The sorted data should be sorted both by RC and ODA. The actual PRL checks will be put in for the next load. Must rewrite pseudocode and convert to PRL.

Restriction: If any terminal in the shared DN group resides on a RSM, then all members of the shared DN group must reside on the same MMRSM cluster (that is, if RLmodatt[module].imtype equals 'SM5RSM' for any terminal in the group, then RLmodatt[module].clid must be equal for all terminals in the group - range 0 shared1 through shared4 and range 1 shared1 through shared4).

**Attribute:**

shared[*].epo_on

**Fullname:**

enhanced professional office indicator

**Attribute Description:**

This attribute indicates if the DN (secondary, secondary only, or shared secondary) or MLHG member that's assigned to the terminal for this shared[] entry is being tracked by the MIS as an Enhanced Professional Office (EPO) DN or member.

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If this attribute is set to DBYES, the terminal associated with this entry must not be a standard ISDN terminal or an ACD/BRCS position.
If this shared[] entry is for the lead port terminal (that is, range == 0, shared1), this attribute must be equal to the "epo_on" attribute in the associated RLis_line tuple for this DN or member.

**Attribute:**
shared[*].is_epos
**Fullname:**
enhanced professional office position indicator
**Attribute Description:**
This attribute indicates if the terminal associated with this shared[] entry is an Enhanced Professional Office (EPO) position.
If this attribute is set to DBYES for non-analog terminals, the associated RLis_term tuple must have "eponum" attribute that is greater than zero. If this attribute is set to DBNO, the RLis_term.eponum must be zero.

**Attribute:**
shared[*].frst_ca
**Fullname:**
first call appearance number.
**Attribute Description:**
Specifies the first the call appearance number on this terminal associated with the DN or MLHG Member. The call appearances on the lead terminal are on this RLshterm.shared[].module associated with the DN or Member is given by the call appearance number = frst_ca + offset, where offset = {0...subaddr_cnt}.
This applies to RLis_term.cpetype =
{ IS_TYPEC and IS_TYPED },
but not an attendant.
frst_ca =0,
if RLfc_porttyp(RLlpt_pt(lport,lpt_type=LPT_ISDN).port).sh_analog=DBYES
Sum of first_ca and sub_addr_cnt must be less than or equal to 254.

**Attribute:**
shared[*].termno
**Fullname:**
terminal number.
**Attribute Description:**
the terminal number for this directory number or multiline hunt line in 5E4 always 0.

**Attribute:**

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shared[*].callexcl

**Fullname:**

Bridged Call Exclusion.

**Attribute Description:**

Indicates whether Bridged Call Exclusion is not allowed (CE_NONE), or it is allowed but it has to be activated manually by pressing a feature button or by dialing a code (CE_MAN), or the feature is automatically activated upon originations or terminations on this logical port (CE_AUTO). Automatic Call Exclusion can be disabled by pressing a feature button or by dialing a code.

**Attribute:**

shared[*].ad_pat

**Fullname:**

abbreviated/delay pattern.

**Attribute Description:**

Ringing/display type for each terminal:

ADNORMAL = 0, normal ringing/immediate display
ADDELAY = 1, delayed ringing/delayed display
ADABBREV = 2, abbreviated ringing/immediate display
AD_NONE = 3, no ringing/immediate display
ADDELRID = 4, delayed ringing/immediate display
ADNORNOD = 5, no ringing/no display

Dependency:

If ADDELAY, ADDELRID, or ADABBREV, ad_time must be non-zero in range 0 tuple.

**Attribute:**

shared[*].dsl_group

**Fullname:**

PH number that this terminal is assigned to

**Attribute Description:**

Populate with the DSL Group Number (0 to 95) to which the port has been assigned. This value is to be gotten from the RLdslequip relation. For analog SHDN make the dsl_group zero.

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# SHTRM_R

## 1. Description

List of BRCS constructed features assigned to a ISDN BRCS DN/member or BRCS Feature Group (BFG).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 262112 |
| expected number of tuples | 80 |
| density | 40 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTORAGE |
| ks key store | AUTO |

## 3. Field Layout

```
SHTRM_R     relid = 1659  DBSTORAGE  DBACC_CIND  DBPRAM    FG      NULL
     lead_module  DMMODULE     (ushort: 8)     <--- key, not stored
     range        DMUNS3       (ushort: 3)     <--- key, not stored
     ltm_idxi     DMLTM_IDX    (ulong: 16)     <--- key, not stored
     eponum       DMEPONUM     (ushort: 14)
     shatts       DMGK14       (ulong: 14)
     shlist       DMGK14       (ulong: 14)
         User and Compacted Tuple Layout    SHTRM_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |     |                                 |         |
  0 |  lead_module  |range|            ltm_idxi             |*********|
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
  4 |           eponum              |           shatts              |*******|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |           shlist              |*********************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
     eponum       DMEPONUM     (ushort: 14)
     shatts       DMGK14       (ulong: 14)
     shlist       DMGK14       (ulong: 14)
           Stored Tuple Layout      SHTRM_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
  0 |           eponum              |           shatts              |*******|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |           shlist              |*********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLshtrm_r

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There are no population rules for this relation.

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# SID_DS1

## 1. Description

This relation maps RT Site Identifier (SID) and RT DS1 number to DS1 external name.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application type | SWMTC |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |

## 3. Field Layout

```
SID_DS1     relid = 1752  DBSTATIC   DBACC_HASH  DBPRAM    LP      SWMTC
     sid          DMSHORT      (short)     <--- key
     ds1_num      DMFACNUM     (ushort: 9)
     utype        DMUNITTYPE   (enum: 7)
     sm           DMMODULE     (ushort: 8)
     unitno       DMUNITNO     (ushort: 8)
     rdt_unit     DMUNITNO     (ushort: 8)
     rtnum        DMRTNUM      (uchar: 7)
 (a) is_prot      DMBOOL       (enum: 1)
     rt_ds1       DMRTDS1      (uchar: 5)     <--- key
 (b) rtint        DMRTINT      (enum: 1)
         User, Compacted and Stored Tuple Layout    SID_DS1
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                 |             |
  0 |               sid             |     ds1_num     |    utype    |
    |---------------+---------------+---------------+---------------|
    |                |              |                 |             | |
  4 |        sm      |     unitno   |    rdt_unit     |    rtnum    |a|
    |---------------+---------------+---------------+---------------|
    |          | |                                                   |
  8 |   rt_ds1 |b|***************************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLsid_ds1

**Relation Description**
Remote Terminal Site Identifier to DS1 Name.

This relation maps the Remote Terminal (RT) SID and DS1 number to the DS1 external name.

**Attribute: sid**

**Fullname:** RT Site Identifier

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**Attribute Description** This is the RT site identifier, which uniquely identifies an RT within an office.

**Attribute: rt_ds1**

**Fullname:** DS1 Number on RT

**Attribute Description** This is the DS1 number on the RT side. This attribute is represented as a character so that the key of this relation is identical to the key of RL96sidlrt, which is the DCLU equivalent of RLsid_ds1.

**Attribute: sm**

**Fullname:** Switching Module (SM) Number

**Attribute Description** This is the number of the SM.

**Attribute: unitno**

**Fullname:** Unit Number

**Attribute Description** This is the unit number on which the DS1 terminates.

**Attribute: utype**

**Fullname:** Unit Type

**Attribute Description** This is the unit type on which the DS1 terminates.

**Attribute: rtnum**

**Fullname:** RT Number

**Attribute Description** This is the RT number.

**Attribute: ds1_num**

**Fullname:** Facility (DS1) Number

**Attribute Description** This is the DS1 Number relative to the RT. The attributes sm, unitno, and ds1_num comprise the DS1 external name. For IDCU transport facility, this number is from 0 -39. For DNU-S transport facility, this number is from 0 - 335 which is a combination of the STS/VT physical numbers.

**Attribute: rdt_unit**

**Fullname:** TR-303 RDT unit number.

**Attribute Description** This is an internal RT unit number which is a sequential number assigned to each TR-303 RDT in a SM.

**Attribute: is_prot**

**Fullname:** Protection Line

**Attribute Description** This is a boolean that indicates whether this is the protection line DS1.

**Attribute: rtint**

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**Fullname:** RT Interface

**Attribute Description** This is the RT interface (TR8 or TR303).

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# SIMSUPRT

## 1. Description

MSU scan distribute ports used by dial tone delay.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | SWMTC |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
SIMSUPRT    relid = 216   DBSTATIC   DBACC_CIND  DBPRAM    LP      SWMTC
 (a) simsuport   DMSIMSUPRT   (enum: 1)  <--- key, not stored
     port        DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User and Compacted Tuple Layout   SIMSUPRT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    | |                                                             |
  0 |a|*************************************************************|
    |===============+============  port ============+===============|
    |                                |                |               |
  4 |              member            |****************|     module    |
    |===============+===============+================+===============|
       ( 8 bytes )
     port        DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
           Stored Tuple Layout     SIMSUPRT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============  port ============+===============|
    |                                |                |               |
  0 |              member            |****************|     module    |
    |===============+===============+================+===============|
       ( 4 bytes )
```

## 4. Population Rules for RLsimsuprt

**Relation Description**
SI MSU port. MSU scan distribute ports used by dial tone delay.

**Attribute: simsuport**

**Fullname:** Dial tone delay alarm SD port name.

**Attribute Description** Dial tone delay alarm scan or distribute port name. List all enumerations.

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**Attribute: port**

**Fullname:** Physical MSU SD point number.

**Attribute Description** MSU scan or distribute point port numbers.

**Attribute: port.member**

**Fullname:** Member

**Attribute Description** Member.

**Attribute: port.module**

**Fullname:** Module

**Attribute Description** Module.

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# SL_LENTL

## 1. Description

This relation contains a list of LEN's to be tested by SLIM routine testing.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 480 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application type | TLWS |
| relation type | DBSTATIC |

## 3. Field Layout

```
SL_LENTL    relid = 2179  DBSTATIC   DBACC_CIND  DBPRAM    LP      TLWS
     entry       DMUNS6       (ushort: 6)  <--- key
     list_id     DMUNS4       (ushort: 4)  <--- key
     len_rng     DMLENRNG     (struct)
         entype      DMCHR        (char)
         low_sm      DMMODULE     (ushort: 8)
         low_unit    DMUNITNO     (ushort: 7)
 (a)     low_conc    DMUNS4       (ushort: 4)
 (b)     low_swgrp   DMUNS1       (ushort: 1)
 (c)     low_sw      DMUNS3       (ushort: 3)
 (d)     low_level   DMUNS2       (ushort: 2)
         low_rt      DMUNS5       (ushort: 5)
         low_line    DMRTLINES    (ushort: 12)
         up_sm       DMMODULE     (ushort: 8)
         up_unit     DMUNITNO     (ushort: 7)
         up_conc     DMUNS4       (ushort: 4)
 (e)     up_swgrp    DMUNS1       (ushort: 1)
         up_sw       DMUNS3       (ushort: 3)
 (f)     up_level    DMUNS2       (ushort: 2)
         up_rt       DMUNS5       (ushort: 5)
         up_line     DMRTLINES    (ushort: 12)
         User, Compacted and Stored Tuple Layout   SL_LENTL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |           |       |                                           |
  0 |   entry   |list_id|*******************************************|
    |===============+=========== len_rng ===========+===============|
    |               |               |             |       | |     | |
  4 |     entype    |     low_sm    |   low_unit  |   a   |b|  c  |*|
    |---------------+---------------+---------------+---------------|
    |   |         |                 |                       |       |
  8 | d |  low_rt |*****************|        low_line       |*******|
    |---------------+---------------+---------------+---------------|
    |               |             | |       | |     |   |         | |
 12 |     up_sm     |   up_unit   |*|up_conc|e|up_sw| f |  up_rt  |*|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
```

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```
 16 |        up_line        |************************************|
    |===============+===============+===============+===============|
       ( 20 bytes )
```

## 4. Population Rules for RLsl_lentl

**Relation Description**
List of LEN's.

List of LEN's to be tested by SLIM routine testing.

**Attribute: entry**

**Fullname:** Identity of an entry in LEN list

**Attribute Description** This attribute represent an entry of line equipment number in the list.

**Attribute: list_id**

**Fullname:** Identity of LEN list

**Attribute Description** This attribute represent the list id in the LEN's list.

**Attribute: len_rng.entype**

**Fullname:** Range of LEN's, line equipment entry type

**Attribute Description** Range of line equipment number of entry type.

**Attribute: len_rng.low_sm**

**Fullname:** Range of LEN's, lower SM value.

**Attribute Description** Lower range of the SM value.

**Attribute: len_rng.low_conc**

**Fullname:** Range of LEN's, lower concentrator value

**Attribute Description** Lower range of the concentrator value.

**Attribute: len_rng.low_swgrp**

**Fullname:** Range of LEN's, lower service group value

**Attribute Description** Lower range of the upper service group.

**Attribute: len_rng.low_level**

**Fullname:** Range of LEN's, lower level value.

**Attribute Description** Lower range of the level value.

**Attribute: len_rng.low_rt**

**Fullname:** Range of LEN's, lower remote terminal (RT) value

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**Attribute Description** Lower range of the RT value.

**Attribute: len_rng.low_line**

**Fullname:** Range of LEN's, lower Remote Terminal line value

**Attribute Description** Lower range of the RT line value.

**Attribute: len_rng.up_sm**

**Fullname:** Range of LEN's, upper SM value.

**Attribute Description** Upper range of the SM value.

**Attribute: len_rng.up_conc**

**Fullname:** Range of LEN's, upper concentrator value

**Attribute Description** Upper range of the concentrator value.

**Attribute: len_rng.up_swgrp**

**Fullname:** Range of LEN's, upper service group value

**Attribute Description** Upper range of the upper service group.

**Attribute: len_rng.up_level**

**Fullname:** Range of LEN's, upper level value.

**Attribute Description** Upper range of the level value.

**Attribute: len_rng.up_rt**

**Fullname:** Range of LEN's, upper remote terminal (RT) value

**Attribute Description** Upper range of the RT value.

**Attribute: len_rng.up_line**

**Fullname:** Range of LEN's, upper Remote Terminal line value

**Attribute Description** Upper range of the RT line value.

POPRULES FOR ISLU

This relation's representation looks just like LEN whether the actual equipment is LEN, LCEN, or LCKEN. Recent Change receives input in the form of LCEN for ISLU. The following rules apply for "populating" this relation. These poprules actually provide conversion rules to convert from the external LCEN representation passed by RC to the internal LEN representation used by this relation.

On input, conversion of ISLU and ISLU-Z LCEN with SM, LU, LGC, and LC is needed to LEN structure with SM, LU, CONC, SWGRP, SW and LEVEL. The following lines detail how the conversion works. For the "high*" part of the relation, the same conversion rules apply.

```
Conversion from view/form equipment number to relation:
-------------------------------------------------------
```

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```
     Note: low_xxx and up_xxx attributes are mapped from the
     START OE" and "END OE", form/view fields, respectively.
     lenrng.low_sm = sm
     lenrng.low_unit = lu
     lenrng.low_conc = lgc / 2
     lenrng.low_swgrp = lgc % 2
     lenrng.low_sw = lc / 4
     lenrng.low_     level = lc % 4
     lenrng.low_rt = 0
     lenrng.low_line = 0
     lenrng.up_sm = sm
     lenrng.up_unit = lu
     lenrng.up_conc = lgc / 2
     lenrng.up_swgrp = lgc % 2
     lenrng.up_sw = lc / 4
     lenrng.up_level = lc % 4
     lenrng.up_rt = 0
     lenrng.up_line = 0
```

To go the other direction, from relation to view/form equipment number

```
     sm = lenrng.low_sm
     lu = lenrng.low_unit
     lgc = ((lenrng.low_conc % 8) << 1) + (lenrng.low_swgrp)
     lc = (lenrng.sw << 2) + lenrng.level
```

LEN "L":

```
_____________________________________
| ' ' ' ' ' ' | ' ' ' ' | | ' ' | ' |
|             |  conc  | | sw  |lev|
|             |       swgrp     |-el|
|_____________|________|_|_____|___|
```

ISLU-Z "C"

```
_____________________________________
| ' ' ' ' ' ' | | ' ' ' | | ' ' | ' |
|             |*| lgc   |   lc    |
|_____________|_|_______|_________|
```

DCLU (SLEN) "S":

DCLU SLEN

```
_____________________________________________________________________
| ' ' ' ' ' ' | ' ' ' ' | ' ' ' | ' ' | ' ' ' ' ' ' ' ' |''''''''''|
|   dclu      |    *   |  *    |  *    |       rt        |  line     |
|             |        |       |       |                 |           |
|_____________|________|_______|_______|_________________|___________|
```

Relation <--> view/form EN map directly as indicated here:

```
     Note: low_xxx and up_xxx attributes are mapped from the
     "START OE"  and "END OE", form/view fields, respectively.
     lenrng.low_sm  = sm
     lenrng.low_unit = dclu
     lenrng.low_conc = 0
     lenrng.low_swgrp  = 0
```

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```
      lenrng.low_sw = 0
      lenrng.low_level = 0
      lenrng.low_rt =  rt
      lenrng.low_line = line
      lenrng.up_sm = sm
      lenrng.up_unit  = dclu
      lenrng.up_conc = 0
      lenrng.up_swgrp = 0
      lenrng.up_sw  = 0
      lenrng.up_level = 0
      lenrng.up_rt = rt
      lenrng.up_line =  line
```

IDCU EN "G":

| ' ' ' ' ' ' | ' ' ' ' | ' ' | ' ' | ' ' ' ' ' ' ' ' | '''''''''' |
|---|---|---|---|---|---|
| idcu | * | * | * | rt | line |
| | | | | | |

```
     Relation <--> view/form EN map directly as indicated here:
     ----------------------------------------------------------
      Note: low_xxx and up_xxx attributes are mapped from the
     "START OE"  and "END OE", form/view fields, respectively.
     lenrng.low_sm  = sm
     lenrng.low_unit = idcu
     lenrng.low_conc = 0
     lenrng.low_swgrp  = 0
     lenrng.low_sw = 0
     lenrng.low_level = 0
     lenrng.low_rt =  rt
     lenrng.low_line = line
     lenrng.up_sm = sm
     lenrng.up_unit  = idcu
     lenrng.up_conc = 0
     lenrng.up_swgrp = 0
     lenrng.up_sw  = 0
     lenrng.up_level = 0
     lenrng.up_rt = rt
     lenrng.up_line =  line
     *: unused
```

POPRULES FOR AIU

This relation's representation looks just like a LEN whether the actual equipment is LEN or AIUEN. Recent Change receives input in the form of AIUEN for AIU. The following rules apply for "populating" this relation. These poprules actually provide conversion rules to convert from the external AIUEN representation passed by RC to the internal LEN representation used by this relation.

On input, conversion of AIUEN with SM, AIU, LP, and LC is needed to LEN structure with SM, LU/UNIT, CONC, SWGRP, SW and LEVEL. The following lines detail how the conversion works. For the "high*" part of the relation, the same conversion rules apply.

```
     lenrng.low_sm    = sm
```

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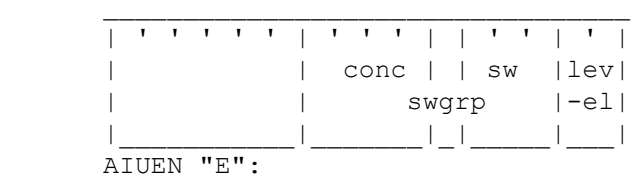
```
     lenrng.low_unit  = aiu
     lenrng.low_conc  = lp / 2
     lenrng.low_swgrp = lp % 2
     lenrng.low_sw    = lc / 4
     lenrng.low_level = lc % 4
```

To go the other direction:

```
     sm  = lenrng.low_sm
     aiu = lenrng.low_lu
     lp  = (lenrng.low_conc << 1) + (lenrng.low_swgrp)
     lc  = (lenrng.low_sw << 2) + (lenrng.low_level)
```

Pictorial representation of LEN and AIUEN "entype":

LEN "L":




AIUEN "E":

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# SL_SESSN

## 1. Description

SLIM testsession definition.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 40 |
| expected | 19 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application type | TLWS |
| relation type | DBSTATIC |
| key shift | 0 |
| trigger function | TMtsessdef |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
SL_SESSN    relid = 2181  DBSTATIC   DBACC_CIND  DBPRAM    LP      TLWS
     tjob1_id    DMUNS8       (ushort: 8)
     tjob2_id    DMUNS8       (ushort: 8)
     tjob3_id    DMUNS8       (ushort: 8)
     tjob4_id    DMUNS8       (ushort: 8)
     tjob5_id    DMUNS8       (ushort: 8)
     tjob6_id    DMUNS8       (ushort: 8)
     tsess_id    DMUNS6       (ushort: 6)  <--- key
 (a) periodicity  DMPERIOD     (enum: 2)
     start_date  DMDATE       (struct)
         year        DMUNS7       (ushort: 7)
         month       DMUNS4       (ushort: 4)
         day         DMUNS5       (ushort: 5)
     start_time  DMMM_TIME    (struct)
         hr          DMUNS6       (ushort: 6)
         min         DMUNS6       (ushort: 6)
     stop_time   DMMM_TIME    (struct)
         hr          DMUNS6       (ushort: 6)
         min         DMUNS6       (ushort: 6)
         User, Compacted and Stored Tuple Layout   SL_SESSN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  0 |    tjob1_id   |    tjob2_id   |    tjob3_id   |    tjob4_id   |
    |---------------+---------------+---------------+---------------|
    |               |               |           |   |               |
  4 |    tjob5_id   |    tjob6_id   |  tsess_id | a |***************|
    |===============+=========  start_date =========+===============|
    |               |       |       |                               |
  8 |     year      | month |   day   |*****************************|
    |===============+=========  start_time =========+===============|
    |           |           |                                       |
```

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```
 12 |     hr    |    min    |**************************************|
    |===============+========== stop_time ==========+==============|
    |           |           |                                      |
 16 |     hr    |    min    |**************************************|
    |===============+===============+===============+==============|
       ( 20 bytes )
```

## 4. Population Rules for RLsl_sessn

**Relation Description**
SLIM routine mode test session definition.

This relation will define the test session start, stop, period, and the test job id for SLIM tests.

**Attribute: tsess_id**

**Fullname:** Identity of the test session

**Attribute Description** This attribute represent the test id for certain test session.

**Attribute: tjob[*]_id**

**Fullname:** Identities of the test jobs

**Attribute Description** This attribute represent the test job id to be run.

**Attribute: start_date.year,start_date.month,start_date.day Fullname:** Start date of the test session

**Attribute Description** This attribute represent the start date of the test session.

**Attribute: start_time.hr,start_date**

**Fullname:** Start time of the test session

**Attribute Description** This attribute represent the start and time of the test session.

**Attribute: periodicity**

**Fullname:** The period of repetition

**Attribute Description** This attribute represent the period of time when the test should be rerun.

**Attribute: stop_time.hr,stop_time.min**

**Fullname:** Stop time of the test session

**Attribute Description** This attribute shows the stop time (hour and minutes), of the test session.

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# SL_THRSH

## 1. Description

Lists of threshold values for SLIM tests.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 15 |
| expected | 5 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application type | TLWS |
| relation type | DBSTATIC |

## 3. Field Layout

```
SL_THRSH    relid = 2182  DBSTATIC   DBACC_CIND  DBPRAM    LP      TLWS
 (a) threshlst_id  DMUNS4       (ushort: 4)  <--- key
     onhk00_test  DMTHRSHRNG   (struct)
         low         DMSSHORT     (short)
         high        DMSSHORT     (short)
     onhk01_test  DMTHRSHRNG   (struct)
         low         DMSSHORT     (short)
         high        DMSSHORT     (short)
     onhk02_test  DMTHRSHRNG   (struct)
         low         DMSSHORT     (short)
         high        DMSSHORT     (short)
     onhk03_test  DMTHRSHRNG   (struct)
         low         DMSSHORT     (short)
         high        DMSSHORT     (short)
     onhk04_test  DMTHRSHRNG   (struct)
         low         DMSSHORT     (short)
         high        DMSSHORT     (short)
     onhk05_test  DMTHRSHRNG   (struct)
         low         DMSSHORT     (short)
         high        DMSSHORT     (short)
     onhk06_test  DMHEXRNG     (struct)
         low         DMHEX16      (ushort)
         high        DMHEX16      (ushort)
     onhk07_test  DMHEXRNG     (struct)
         low         DMHEX16      (ushort)
         high        DMHEX16      (ushort)
     onhk08_test  DMHEXRNG     (struct)
         low         DMHEX16      (ushort)
         high        DMHEX16      (ushort)
     onhk09_test  DMHEXRNG     (struct)
         low         DMHEX16      (ushort)
         high        DMHEX16      (ushort)
     onhk10_test  DMHEXRNG     (struct)
         low         DMHEX16      (ushort)
         high        DMHEX16      (ushort)
     onhk11_test  DMHEXRNG     (struct)
         low         DMHEX16      (ushort)
```

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```
        high        DMHEX16      (ushort)
    onhk12_test  DMHEXRNG     (struct)
        low         DMHEX16      (ushort)
        high        DMHEX16      (ushort)
    onhk13_test  DMTHRSHRNG   (struct)
        low         DMSSHORT     (short)
        high        DMSSHORT     (short)
    onhk14_test  DMTHRSHRNG   (struct)
        low         DMSSHORT     (short)
        high        DMSSHORT     (short)
    onhk15_test  DMTHRSHRNG   (struct)
        low         DMSSHORT     (short)
        high        DMSSHORT     (short)
    onhk16_test  DMHEXRNG     (struct)
        low         DMHEX16      (ushort)
        high        DMHEX16      (ushort)
    offhk00_test  DMHEXRNG     (struct)
        low         DMHEX16      (ushort)
        high        DMHEX16      (ushort)
    offhk01_test  DMTHRSHRNG   (struct)
        low         DMSSHORT     (short)
        high        DMSSHORT     (short)
    offhk02_test  DMTHRSHRNG   (struct)
        low         DMSSHORT     (short)
        high        DMSSHORT     (short)
    offhk03_test  DMTHRSHRNG   (struct)
        low         DMSSHORT     (short)
        high        DMSSHORT     (short)
    offhk04_test  DMTHRSHRNG   (struct)
        low         DMSSHORT     (short)
        high        DMSSHORT     (short)
    offhk05_test  DMTHRSHRNG   (struct)
        low         DMSSHORT     (short)
        high        DMSSHORT     (short)
    offhk06_test  DMTHRSHRNG   (struct)
        low         DMSSHORT     (short)
        high        DMSSHORT     (short)
        User, Compacted and Stored Tuple Layout   SL_THRSH
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |       |                                                       |
 0 |   a   |*******************************************************|
   |===============+========= onhk00_test =========+===============|
   |                               |                               |
 4 |              low              |              high             |
   |===============+========= onhk01_test =========+===============|
   |                               |                               |
 8 |              low              |              high             |
   |===============+========= onhk02_test =========+===============|
   |                               |                               |
12 |              low              |              high             |
   |===============+========= onhk03_test =========+===============|
   |                               |                               |
```

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```
16 |              low              |              high             |
   |===============+========= onhk04_test =========+===============|
   |                               |                               |
20 |              low              |              high             |
   |===============+========= onhk05_test =========+===============|
   |                               |                               |
24 |              low              |              high             |
   |===============+========= onhk06_test =========+===============|
   |                               |                               |
28 |              low              |              high             |
   |===============+========= onhk07_test =========+===============|
   |                               |                               |
32 |              low              |              high             |
   |===============+========= onhk08_test =========+===============|
   |                               |                               |
36 |              low              |              high             |
   |===============+========= onhk09_test =========+===============|
   |                               |                               |
40 |              low              |              high             |
   |===============+========= onhk10_test =========+===============|
   |                               |                               |
44 |              low              |              high             |
   |===============+========= onhk11_test =========+===============|
   |                               |                               |
48 |              low              |              high             |
   |===============+========= onhk12_test =========+===============|
   |                               |                               |
52 |              low              |              high             |
   |===============+========= onhk13_test =========+===============|
   |                               |                               |
56 |              low              |              high             |
   |===============+========= onhk14_test =========+===============|
   |                               |                               |
60 |              low              |              high             |
   |===============+========= onhk15_test =========+===============|
   |                               |                               |
64 |              low              |              high             |
   |===============+========= onhk16_test =========+===============|
   |                               |                               |
68 |              low              |              high             |
   |===============+========  offhk00_test ========+===============|
   |                               |                               |
72 |              low              |              high             |
   |===============+========  offhk01_test ========+===============|
   |                               |                               |
76 |              low              |              high             |
   |===============+========  offhk02_test ========+===============|
   |                               |                               |
80 |              low              |              high             |
   |===============+========  offhk03_test ========+===============|
   |                               |                               |
84 |              low              |              high             |
   |===============+========  offhk04_test ========+===============|
   |                               |                               |
```

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```
 88 |              low              |              high             |
    |===============+========  offhk05_test ========+===============|
    |                               |                               |
 92 |              low              |              high             |
    |===============+========  offhk06_test ========+===============|
    |                               |                               |
 96 |              low              |              high             |
    |===============+===============+===============+===============|
       ( 100 bytes )
```

## 4. Population Rules for RLsl_thrsh

**Relation Description**
Slim tests and threshold.This relation holds the list of threshold values for SLIM tests.

**Attribute: threshlst_id**

**Fullname:** Identity of threshold list

**Attribute Description** This attribute contains the list id number which is going to be used by the SLIM test.

**Attribute: onhk00_test.high,onhk00_test.low**

**Fullname:** Threshold values (high and low) for SLIM on-hook test 00

**Attribute Description** This attribute contains the threshold values for on-hook SLIM test for AC voltage, tip-to-ground.

**Attribute: onhk01_test.high,onhk01_test.low**

**Fullname:** Threshold values (high and low) for SLIM on-hook test 01

**Attribute Description** This attribute contains the threshold values for on-hook SLIM test for AC voltage, ring-to-ground.

**Attribute: onhk02_test.high,onhk02_test.low**

**Fullname:** Threshold values (high and low) for SLIM on-hook test 02

**Attribute Description** This attribute contains the threshold values for on-hook SLIM test for AC voltage, tip-to-ring.

**Attribute: onhk03_test.high,onhk03_test.low**

**Fullname:** Threshold values (high and low) for SLIM on-hook test 03

**Attribute Description** This attribute contains the threshold values for on-hook SLIM test for DC voltage, tip-to-ground.

**Attribute: onhk04_test.high,onhk04_test.low**

**Fullname:** Threshold values (high and low) for SLIM on-hook test 04

**Attribute Description** This attribute contains the threshold values for on-hook SLIM test for DC voltage, ring-ground.

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**Attribute: onhk05_test.high,onhk05_test.low**

**Fullname:** Threshold values (high and low) for SLIM on-hook test 05

**Attribute Description** This attribute contains the threshold values for on-hook SLIM test for DC voltage, tip-to-ring.

**Attribute: onhk06_test.high,onhk06_test.low**

**Fullname:** Threshold values (high and low) for SLIM on-hook test 06

**Attribute Description** This attribute contains the threshold values for on-hook SLIM test for resistance, tip-to-ground.

**Attribute: onhk07_test.high,onhk07_test.low**

**Fullname:** Threshold values (high and low) for SLIM on-hook test 07

**Attribute Description** This attribute contains the threshold values for on-hook SLIM test for resistance ring-to-ground.

**Attribute: onhk08_test.high,onhk08_test.low**

**Fullname:** Threshold values (high and low) for SLIM on-hook test 08

**Attribute Description** This attribute contains the threshold values for on-hook SLIM test which is not currently used in domestic switching.

**Attribute: onhk09_test.high,onhk09_test.low**

**Fullname:** Threshold values (high and low) for SLIM on-hook test 09

**Attribute Description** This attribute contains the threshold values for on-hook SLIM test resistance tip-to-ring.

**Attribute: onhk10_test.high,onhk10_test.low**

**Fullname:** Threshold values (high and low) for SLIM on-hook test 10

**Attribute Description** This attribute contains the threshold values for on-hook SLIM test which is not currently used in domestic switching.

**Attribute: onhk11_test.high,onhk11_test.low**

**Fullname:** Threshold values (high and low) for SLIM on-hook test 11

**Attribute Description** This attribute contains the threshold values for on-hook SLIM test which is not currently used in domestic switching.

**Attribute: onhk12_test.high,onhk12_test.low**

**Fullname:** Threshold values (high and low) for SLIM on-hook test 12

**Attribute Description** This attribute contains the threshold values for on-hook SLIM test which is not currently used in domestic switching.

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**Attribute: onhk13_test.high,onhk13_test.low**

**Fullname:** Threshold values (high and low) for SLIM on-hook test 13

**Attribute Description** This attribute contains the threshold values for on-hook SLIM test for capacitance, tip-to-ground.

**Attribute: onhk14_test.high,onhk14_test.low**

**Fullname:** Threshold values (high and low) for SLIM on-hook test 14

**Attribute Description** This attribute contains the threshold values for on-hook SLIM test for capacitance, ring-to-ground.

**Attribute: onhk15_test.high,onhk15_test.low**

**Fullname:** Threshold values (high and low) for SLIM on-hook test 15

**Attribute Description** This attribute contains the threshold values for on-hook SLIM test for capacitance, tip-to-ring.

**Attribute: onhk16_test.high,onhk16_test.low**

**Fullname:** Threshold values (high and low) for SLIM on-hook test 16

**Attribute Description** This attribute contains the threshold values for on-hook SLIM test monitor for short.

**Attribute: offhk00_test.high,offhk00_test.low**

**Fullname:** Threshold values (high and low) for SLIM off-hook test 00

**Attribute Description** This attribute contains the threshold values for off-hook SLIM test loop resistance.

**Attribute: offhk01_test.high,offhk01_test.low**

**Fullname:** Threshold values (high and low) for SLIM off-hook test 01

**Attribute Description** This attribute contains the threshold values for off-hook SLIM test dial speed.

**Attribute: offhk02_test.high,offhk02_test.low**

**Fullname:** Threshold values (high and low) for SLIM off-hook test 02

**Attribute Description** This attribute contains the threshold values for off-hook SLIM test dial pulse.

**Attribute: offhk03_test.high,offhk03_test.low**

**Fullname:** Threshold values (high and low) for SLIM off-hook test 03

**Attribute Description** This attribute contains the threshold values for off-hook SLIM test keytone level.

**Attribute: offhk04_test.high,offhk04_test.low**

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**Fullname:** Threshold values (high and low) for SLIM off-hook test 04

**Attribute Description** This attribute contains the threshold values for off-hook SLIM test keytone difference.

**Attribute: offhk05_test.high,offhk05_test.low**

**Fullname:** Threshold values (high and low) for SLIM off-hook test 05

**Attribute Description** This attribute contains the threshold values for off-hook SLIM test keytone frequency.

**Attribute: offhk06_test.high,offhk06_test.low**

**Fullname:** Threshold values (high and low) for SLIM off-hook test 06

**Attribute Description** This attribute contains the threshold values for off-hook SLIM test flash hook.

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# SL_TJOB

## 1. Description

SLIM routine testjob that relates testsets, threshold lists, LEN's to be tested and the types of lines to be allowed to be tested.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 240 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application type | TLWS |
| relation type | DBSTATIC |

## 3. Field Layout

```
SL_TJOB     relid = 2183  DBSTATIC   DBACC_CIND  DBPRAM    LP      TLWS
     tjob_id     DMUNS8       (ushort: 8)  <--- key
     tset_id     DMUNS4       (ushort: 4)
 (a) lenlst_id   DMUNS4       (ushort: 4)
 (b) thrshlst_id  DMUNS4       (ushort: 4)
 (c) oos_allowed  DMBOOL       (enum: 1)
 (d) pbx_allowed  DMBOOL       (enum: 1)
     len_rng     DMLENRNG     (struct)
         entype      DMCHR         (char)
         low_sm      DMMODULE      (ushort: 8)
         low_unit    DMUNITNO      (ushort: 7)
 (e)     low_conc    DMUNS4        (ushort: 4)
 (f)     low_swgrp   DMUNS1        (ushort: 1)
 (g)     low_sw      DMUNS3        (ushort: 3)
 (h)     low_level   DMUNS2        (ushort: 2)
         low_rt      DMUNS5        (ushort: 5)
         low_line    DMRTLINES     (ushort: 12)
         up_sm       DMMODULE      (ushort: 8)
         up_unit     DMUNITNO      (ushort: 7)
         up_conc     DMUNS4        (ushort: 4)
 (i)     up_swgrp    DMUNS1        (ushort: 1)
         up_sw       DMUNS3        (ushort: 3)
 (j)     up_level    DMUNS2        (ushort: 2)
         up_rt       DMUNS5        (ushort: 5)
         up_line     DMRTLINES     (ushort: 12)
         User, Compacted and Stored Tuple Layout    SL_TJOB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |       |       |       | | |                   |
  0 |    tjob_id    |tset_id|   a   |   b   |c|d|*******************|
    |===============+=========== len_rng ===========+===============|
    |               |               |             |       | |     | |
  4 |     entype    |     low_sm    |   low_unit  |   e   |f|  g  |*|
    |---------------+---------------+---------------+---------------|
    |   |         |                 |                       |       |
  8 | h |  low_rt |*****************|        low_line       |*******|
```

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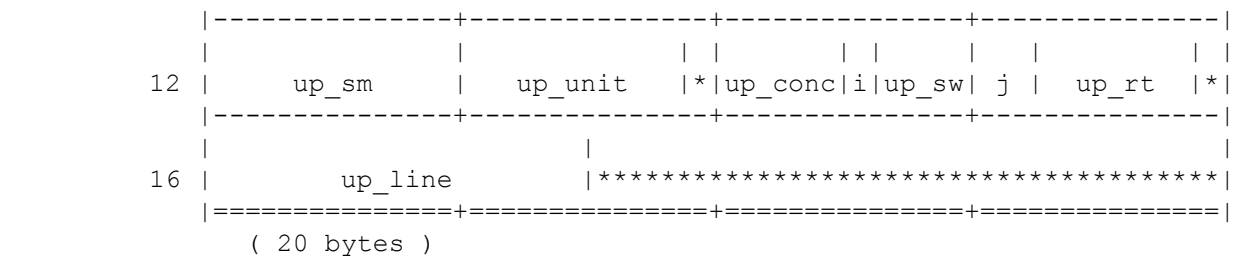


## 4. Population Rules for RLsl_tjob

**Relation Description**
Slim routine test job.

SLIM routine test job that relates testsets, threshold list's, LEN's to be tested and the types of lines to be allowed to be tested.

**Attribute: tjob_id**

**Fullname:** Identity of the test job

**Attribute Description** This attribute is the representation of the testjob ID.

**Attribute: tset_id**

**Fullname:** Identity of the testset

**Attribute Description** Identity of the testset to be used.

**Attribute: len_rng.low_sm**

**Fullname:** Range of LEN's, lower SM value.

**Attribute Description** Lower range of the SM value.

**Attribute: len_rng.low_unit**

**Fullname:** Range of LEN's, lower Unit value.

**Attribute Description** Lower range of the Unit value.

**Attribute: len_rng.low_conc**

**Fullname:** Range of LEN's, lower concentrator value

**Attribute Description** Lower range of the concentrator value.

**Attribute: len_rng.low_swgrp**

**Fullname:** Range of LEN's, lower service group value

**Attribute Description** Lower range of the upper service group.

**Attribute: len_rng.low_level**

**Fullname:** Range of LEN's, lower level value.

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**Attribute Description** Lower range of the level value.

**Attribute: len_rng.low_rt**

**Fullname:** Range of LEN's, lower remote terminal (RT) value

**Attribute Description** Lower range of the RT value.

**Attribute: len_rng.low_line**

**Fullname:** Range of LEN's, lower Remote Terminal line value

**Attribute Description** Lower range of the RT line value.

**Attribute: len_rng.up_sm**

**Fullname:** Range of LEN's, upper SM value.

**Attribute Description** Upper range of the SM value.

**Attribute: len_rng.up_unit**

**Fullname:** Range of LEN's, upper Unit value.

**Attribute Description** Upper range of the Unit value.

**Attribute: len_rng.up_conc**

**Fullname:** Range of LEN's, upper concentrator value

**Attribute Description** Upper range of the concentrator value.

**Attribute: len_rng.up_swgrp**

**Fullname:** Range of LEN's, upper service group value

**Attribute Description** Upper range of the upper service group.

**Attribute: len_rng.up_level**

**Fullname:** Range of LEN's, upper level value.

**Attribute Description** Upper range of the level value.

**Attribute: len_rng.up_rt**

**Fullname:** Range of LEN's, upper remote terminal (RT) value

**Attribute Description** Upper range of the RT value.

**Attribute: len_rng.up_line**

**Fullname:** Range of LEN's, upper Remote Terminal line value

**Attribute Description** Upper range of the RT line value.

**Attribute: lenlst_id**

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**Fullname:** Identity of len list of LEN's

**Attribute Description** Identity of len list of LEN's to be tested.

**Attribute: thrshlst_id**

**Fullname:** Identity of the threshold value list

**Attribute Description** Identity of the threshold value list to be used.

**Attribute: pbx_allowed**

**Fullname:** Indicator of pbx_allowed lines

**Attribute Description** Indicator whether the pbx lines to be allowed for testing or not.

**Attribute: oos_allowed**

**Fullname:** Indicator of OOS lines

**Attribute Description** This attribute is an indicator for whether the OOS lines to be tested or not.

POPRULES FOR ISLU

This relation's representation looks just like an LEN whether the actual equipment is an LEN, LCEN, or LCKEN. Recent Change receives input in the form of an LCEN for ISLU. The following rules apply for "populating" this relation. These poprules actually provide conversion rules to convert from the external LCEN representation passed by RC to the internal LEN representation used by this relation.

On input, conversion of an LCEN with SM, LU, LGC, and LC is needed to LEN structure with SM, LU, CONC, SWGRP, SW and LEVEL. The following lines detail how the conversion works.

```
     Note: low_xxx and up_xxx attributes are mapped from the
     "START OE" and "END OE", form/view fields, respectively.

     lenrng.low_sm = sm
     lenrng.low_unit = lu
     lenrng.low_conc = lgc / 2
     lenrng.low_swgrp = lgc % 2
     lenrng.low_sw = lc / 4
     lenrng.low_level = lc % 4
     lenrng.up_sm = sm
     lenrng.up_unit = lu
     lenrng.up_conc = lgc / 2
     lenrng.up_swgrp = lgc % 2
     lenrng.up_sw = lc / 4
     lenrng.up_level = lc % 4

To go the other direction, (from relation to view/form)
     sm = lenrng.low_sm
     lu = lenrng.low_unit
     lgc = ((lenrng.low_conc % 8) << 1) + (lenrng.low_swgrp)
     lc = (lenrng.sw << 2) + lenrng.level

LEN "L":
```

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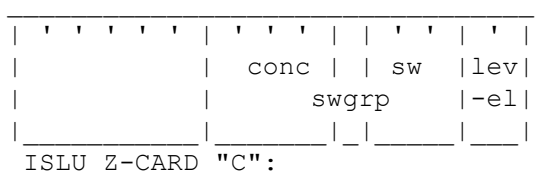
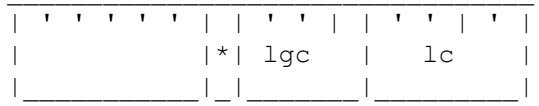
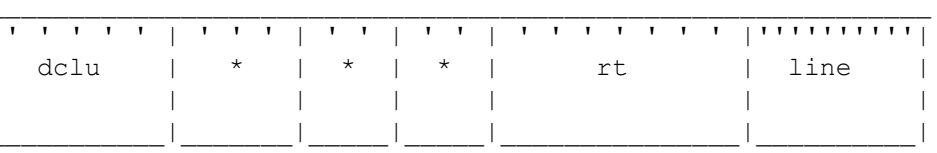



ISLU Z-CARD "C":




DCLU (SLEN) "S":

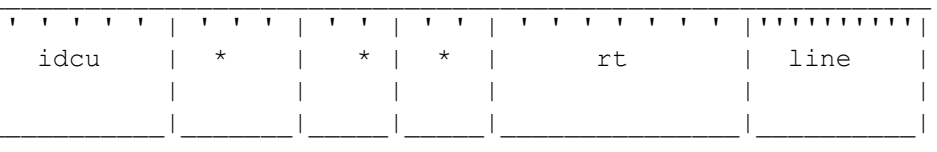
DCLU SLEN




Relation <--> view/form EN map directly as indicated here:

Note: low_xxx and up_xxx attributes are mapped from the "START OE" and "END OE", form/view fields, respectively.

```
lenrng.low_sm = sm
lenrng.low_unit = dclu
lenrng.low_conc = 0
lenrng.low_swgrp = 0
lenrng.low_sw = 0
lenrng.low_level = 0
lenrng.low_rt = rt
lenrng.low_line = line
lenrng.up_sm = sm
lenrng.up_unit  = idcu
lenrng.up_conc = 0
lenrng.up_swgrp = 0
lenrng.up_sw  = 0
lenrng.up_level = 0
lenrng.up_rt = rt
lenrng.up_line =  line  IDCU EN "G":
```




Relation <--> view/form EN map directly as indicated here:

Note: low_xxx and up_xxx attributes are mapped from the "START OE" and "END OE", form/view fields, respectively.

```
lenrng.low_sm = sm
lenrng.low_unit = idcu
```

```
        lenrng.low_conc = 0
        lenrng.low_swgrp = 0
        lenrng.low_sw = 0
        lenrng.low_level = 0
        lenrng.low_rt = rt
        lenrng.low_line = line
        lenrng.up_sm = sm
        lenrng.up_unit = idcu
        lenrng.up_conc = 0
        lenrng.up_swgrp = 0
        lenrng.up_sw = 0
        lenrng.up_level = 0
        lenrng.up_rt = rt
        lenrng.up_line  = line
        *: unused
    POPRULES FOR AIU
```

This relation's representation looks just like a LEN whether the actual equipment is LEN or AIUEN. Recent Change receives input in the form of AIUEN for AIU. The following rules apply for "populating" this relation. These poprules actually provide conversion rules to convert from the external AIUEN representation passed by RC to the internal LEN representation used by this relation.

On input, conversion of AIUEN with SM, AIU, LP, and LC is needed to LEN structure with SM, LU/UNIT, CONC, SWGRP, SW and LEVEL. The following lines detail how the conversion works. For the "high*" part of the relation, the same conversion rules apply.

```
    lenrng.low_sm    = sm
    lenrng.low_unit  = aiu
    lenrng.low_conc  = lp / 2
    lenrng.low_swgrp = lp % 2
    lenrng.low_sw    = lc / 4
    lenrng.low_level = lc % 4
```

To go the other direction:

```
    sm  = lenrng.low_sm
    aiu = lenrng.low_lu
    lp  = (lenrng.low_conc << 1) + (lenrng.low_swgrp)
    lc  = (lenrng.low_sw << 2) + (lenrng.low_level)
Pictorial representation of LEN and AIUEN "entype":

LEN "L":

   _____________________________
   | ' ' ' ' ' | ' ' ' | | ' ' | ' |
   |           |  conc | | sw  |lev|
   |           |      swgrp    |-el|
   |___________|_______|_|_____|___|
AIUEN "E":

   _____________________________
   | ' ' ' ' ' | ' ' ' | | ' ' | ' |
   |           |   lp    |   lc    |
   |___________|_________|_________|
```

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# SL_TSET

## 1. Description

Sets of SLIM on-hook tests to used in SLIM routine mode.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 15 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application type | TLWS |
| relation type | DBSTATIC |

## 3. Field Layout

```
SL_TSET     relid = 2184  DBSTATIC   DBACC_CIND  DBPRAM    LP      TLWS
     tset_id     DMUNS4       (ushort: 4)  <--- key
 (a) tst1_selctd  DMBOOL       (enum: 1)
 (b) tst2_selctd  DMBOOL       (enum: 1)
 (c) tst3_selctd  DMBOOL       (enum: 1)
 (d) tst4_selctd  DMBOOL       (enum: 1)
 (e) tst5_selctd  DMBOOL       (enum: 1)
 (f) tst6_selctd  DMBOOL       (enum: 1)
 (g) tst7_selctd  DMBOOL       (enum: 1)
 (h) tst8_selctd  DMBOOL       (enum: 1)
 (i) tst9_selctd  DMBOOL       (enum: 1)
 (j) tst10_selctd  DMBOOL       (enum: 1)
 (k) tst11_selctd  DMBOOL       (enum: 1)
 (l) tst12_selctd  DMBOOL       (enum: 1)
 (m) tst13_selctd  DMBOOL       (enum: 1)
 (n) tst14_selctd  DMBOOL       (enum: 1)
 (o) tst15_selctd  DMBOOL       (enum: 1)
 (p) tst16_selctd  DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout    SL_TSET
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |       | | | | | | | | | | | | | | | |                           |
 0 |tset_id|a|b|c|d|e|f|g|h|i|j|k|l|m|n|o|p|***********************|
   |---------------+---------------+---------------+---------------|
      ( 4 bytes )
```

## 4. Population Rules for RLsl_tset

**Relation Description**
SLIM TestSet.

This relation provides the sets of SLIM on-hook tests to be used in SLIM routine mode.

**Attribute: tset_id**

**Fullname:** Testset identifier

**Attribute Description** This attribute is used to identify the testset.

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**Attribute: tst[*]_selctd**

**Fullname:** Testset selected from 1 through 16

**Attribute Description** These are the possible SLIM on-hook tests selected.

DBYES - Test selected,
DBNO - test not selected

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# SLNKTMS

## 1. Description

Time-multiplexed Switch (TMS) Links. This relation describes the Network Control and Timing (NCT) links on the TMS.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 760 |
| expected tuples in relation | 79 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | SWMTC |
| relation type | DBSTATIC |
| density | 80 |
| trigger function | SMlnktrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ks, key-storage | AUTO |

## 3. Field Layout

```
SLNKTMS     relid = 243   DBSTATIC   DBACC_CIND  DBPRAM    LP      SWMTC
     sl_spr2     DMSHORT      (short)
     lnknum      DMUNS9       (ushort: 9)     <--- key
     trcu_pi     DMRELLNKNO   (ushort: 5)
 (a) side        DMSIDE       (enum: 1)     <--- key
     imnum       DMMODULE     (ushort: 8)
     sl_spr1     DMUNS8       (ushort: 8)
 (b) eqstat      DMEQSTAT     (enum: 3)
     qli_cli     DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout    SLNKTMS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                 |         | | |
  0 |            sl_spr2            |      lnknum     | trcu_pi |a|*|
    |---------------+---------------+---------------+---------------|
    |               |               |     |                         |
  4 |     imnum     |    sl_spr1    |  b  |*************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                           qli_cli                             |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLslnktms

**Relation Description**
Time-multiplexed switch (TMS) links.

This relation describes the network control and timing (NCT) links on the TMS. The characteristics described by this relation include the equipage status of the link and the identifier of Local Switching Module (LSM), Host Switching

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Module (HSM), Optically Remote switching Module (ORM), or Two-Mile optically Remote (TRM) connected to the NCT link. LSM/HSM/ORM/TRM connected to the NCT link.

There may be several pair of tuples in RLslnktms for each operational LSM/HSM/ORM/TRM that is described by a tuple in RLmodatt. The members of each pair each describe an even and odd NCT link to which the LSM/HSM/ORM/TRM is connected. The number of entries depends on the number of NCT links connected between an SM and the TMS. Non-SM-2000 SMs have only 2 links between any SM and the TMS, thus they have four entries per tuple in RLmodatt (2 pairs). SM-2000s can have a maximum of 96 entries per tuple in RLmodatt (48 pairs). The important point is that for SMs, there will only be 2 pairs of tuples in this relations, while SM-2000s will have a minimum of 4 pairs (ORM2000s) or 8 pairs (HSM-2000 or SM-2000) and a maximum of 48 pairs.

See discussion on relation dependencies in the Population Rules section in RLmodatt.

Note that no tuples are needed for RSMs in RLslnktms since they are not directly connected to the TMS.

**Attribute: lnknum**

**Fullname:** Link number

**Attribute Description** This attribute will identify two TMS NCT links, one on each TMS system side. This attribute is used as part of the key to this relation, along with the side attribute described next.

For a communication module model 2 compact (CM2C) office, there are no quad link interface (QLI) boards. Rather the CM2C TMS is equipped with a switching module link interface (SMLI) which can interface to a maximum of four NCT links (hardware provides eight but only four are used). Also, the TMS fabric type is always single fabric. The range then for CM2C NCT links is two through five.

The following is for non-CM2C offices:

The domain of this attribute is BFUNS9, or an unsigned bit field that is nine bits long. The range of values that this attribute can assume is given by the following chart.

| TMS Vintage | TMS Fabric Type | Range |
|---|---|---|
| CM1 | dual fabric | 2 to 61 |
| CM2 | single fabric | 2 to 189 |
| CM2 | dual fabric | 2 to 381 |

The value assumed by this attribute has implications on the physical characteristics of the link for a tuple is being defined. The following charts illustrate the values that this attribute can assume depending on whether an office is CM1, CM2 Single Fabric, or CM2 Dual Fabric.

| CM1 (DUAL FABRIC) | | | | | |
|---|---|---|---|---|---|
| EVEN TMS HALF | | | ODD TMS HALF | | |
| SHELF | FABRIC BOARD | LINK NUMBERS | SHELF | FABRIC BOARD | LINK NUMBERS |
| 0 | 1 | 2, 4 | 1 | 1 | 3, 5 |
| 0 | 2 | 6, 8, 10, 12 | 1 | 2 | 7, 9, 11, 13 |
| 0 | 3 | 14, 16, 18, 20 | 1 | 3 | 15, 17, 19, 21 |
| 0 | 4 | 22, 24, 26, 28 | 1 | 4 | 23, 25, 27, 29 |
| 2 | 1 | 30, 32, 34, 36 | 3 | 1 | 31, 33, 35, 37 |

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| | | | | | |
|---|---|---|---|---|---|
| 2 | 2 | 38, 40, 42, 44 | 3 | 2 | 39 ,41, 43 ,45 |
| 2 | 3 | 46, 48, 50, 52 | 3 | 3 | 47 ,49 ,51 ,53 |
| 2 | 4 | 54, 56, 58, 60 | 3 | 4 | 55, 57, 59, 61 |

CM2 SINGLE FABRIC

| SHELF | QLI | LINK NUMBERS | SHELF | QLI | LINK NUMBERS |
|---|---|---|---|---|---|
| 0 | 0 | 2, 3 | 1 | 0 | 32, 33 |
| 0 | 1 | 4, 5, 6, 7 | 1 | 1 | 34, 35, 36, 37 |
| 0 | 2 | 8, 9, 10, 11 | 1 | 2 | 38, 39, 40, 41 |
| 0 | 3 | 12, 13, 14, 15 | 1 | 3 | 42, 43, 44, 45 |
| 0 | 4 | 16, 17, 18, 19 | 1 | 4 | 46, 47, 48, 49 |
| 0 | 5 | 20, 21, 22, 23 | 1 | 5 | 50, 51, 52, 53 |
| 0 | 6 | 24, 25, 26, 27 | 1 | 6 | 54, 55, 56, 57 |
| 0 | 7 | 28, 29, 30, 31 | 1 | 7 | 58, 59, 60, 61 |
| 2 | 0 | 62, 63, 64, 65 | 3 | 0 | 94, 95, 96, 97 |
| 2 | 1 | 66, 67, 68, 69 | 3 | 1 | 98, 99,100,101 |
| 2 | 2 | 70, 71, 72, 73 | 3 | 2 | 102,103,104,105 |
| 2 | 3 | 74, 75, 76, 77 | 3 | 3 | 106,107,108,109 |
| 2 | 4 | 78, 79, 80, 81 | 3 | 4 | 110,111,112,113 |
| 2 | 5 | 82, 83, 84, 85 | 3 | 5 | 114,115,116,117 |
| 2 | 6 | 86, 87, 88, 89 | 3 | 6 | 118,119,120,121 |
| 2 | 7 | 90, 91, 92, 93 | 3 | 7 | 122,123,124,125 |
| 4 | 0 | 126,127,128,129 | 5 | 0 | 158,159,160,161 |
| 4 | 1 | 130,131,132,133 | 5 | 1 | 162,163,164,165 |
| 4 | 2 | 134,135,136,137 | 5 | 2 | 166,167,168,169 |
| 4 | 3 | 138,139,140,141 | 5 | 3 | 170,171,172,173 |
| 4 | 4 | 142,143,144,145 | 5 | 4 | 174,175,176,177 |
| 4 | 5 | 146,147,148,149 | 5 | 5 | 178,179,180,181 |
| 4 | 6 | 150,151,152,153 | 5 | 6 | 182,183,184,185 |
| 4 | 7 | 154,155,156,157 | 5 | 7 | 186,187,188,189 |

CM2 DUAL FABRIC

| EVEN TMS HALF | | | ODD TMS HALF | | |
|---|---|---|---|---|---|
| SHELF | QLI | LINK NUMBERS | SHELF | QLI | LINK NUMBERS |
| 0 | 0 | 2, 4 | 1 | 0 | 3, 5 |
| 0 | 1 | 6, 8, 10, 12 | 1 | 1 | 7, 9, 11, 13 |
| 0 | 2 | 14, 16, 18, 20 | 1 | 2 | 15, 17, 19, 21 |
| 0 | 3 | 22, 24, 26, 28 | 1 | 3 | 23, 25, 27, 29 |
| 0 | 4 | 30, 32, 34, 36 | 1 | 4 | 31, 33, 35, 37 |
| 0 | 5 | 38, 40, 42, 44 | 1 | 5 | 39, 41, 43, 45 |
| 0 | 6 | 46, 48, 50, 52 | 1 | 6 | 47, 49, 51, 53 |
| 0 | 7 | 54, 56, 58, 60 | 1 | 7 | 55, 57, 59, 61 |
| 2 | 0 | 62, 64, 66, 68 | 3 | 0 | 63, 65, 67, 69 |
| 2 | 1 | 70, 72, 74, 76 | 3 | 1 | 71, 73, 75, 77 |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2 | 2 | 78, 80, 82, 84 | 3 | 2 | 79, 81, 83, 85 |
| 2 | 3 | 86, 88, 90, 92 | 3 | 3 | 87, 89, 91, 93 |
| 2 | 4 | 94, 96, 98,100 | 3 | 4 | 95, 97, 99,101 |
| 2 | 5 | 102,104,106,108 | 3 | 5 | 103,105,107,109 |
| 2 | 6 | 110,112,114,116 | 3 | 6 | 111,113,115,117 |
| 2 | 7 | 118,120,122,124 | 3 | 7 | 119,121,123,125 |
| 4 | 0 | 126,128,130,132 | 5 | 0 | 127,129,131,133 |
| 4 | 1 | 134,136,138,140 | 5 | 1 | 135,137,139,141 |
| 4 | 2 | 142,144,146,148 | 5 | 2 | 143,145,147,149 |
| 4 | 3 | 150,152,154,156 | 5 | 3 | 151,153,155,157 |
| 4 | 4 | 158,160,162,164 | 5 | 4 | 159,161,163,165 |
| 4 | 5 | 166,168,170,172 | 5 | 5 | 167,169,171,173 |
| 4 | 6 | 174,176,178,180 | 5 | 6 | 175,177,179,181 |
| 4 | 7 | 182,184,186,188 | 5 | 7 | 183,185,187,189 |
| 6 | 0 | 190,192,194,196 | 7 | 0 | 191,193,195,197 |
| 6 | 1 | 198,200,202,204 | 7 | 1 | 199,201,203,205 |
| 6 | 2 | 206,208,210,212 | 7 | 2 | 207,209,211,213 |
| 6 | 3 | 214,216,218,220 | 7 | 3 | 215,217,219,221 |
| 6 | 4 | 222,224,226,228 | 7 | 4 | 223,225,227,229 |
| 6 | 5 | 230,232,234,236 | 7 | 5 | 231,233,235,237 |
| 6 | 6 | 238,240,242,244 | 7 | 6 | 239,241,243,245 |
| 6 | 7 | 246,248,250,252 | 7 | 7 | 247,249,251,253 |
| 8 | 0 | 254,256,258,260 | 9 | 0 | 255,257,259,261 |
| 8 | 1 | 262,264,266,268 | 9 | 1 | 263,265,267,269 |
| 8 | 2 | 270,272,274,276 | 9 | 2 | 271,273,275,277 |
| 8 | 3 | 278,280,282,284 | 9 | 3 | 279,281,283,285 |
| 8 | 4 | 286,288,290,292 | 9 | 4 | 287,289,291,293 |
| 8 | 5 | 294,296,298,300 | 9 | 5 | 295,297,299,301 |
| 8 | 6 | 302,304,306,308 | 9 | 6 | 303,305,307,309 |
| 8 | 7 | 310,312,314,316 | 9 | 7 | 311,313,315,317 |
| 10 | 0 | 318,320,322,324 | 11 | 0 | 319,321,323,325 |
| 10 | 1 | 326,328,330,332 | 11 | 1 | 327,329,331,333 |
| 10 | 2 | 334,336,338,340 | 11 | 2 | 335,337,339,341 |
| 10 | 3 | 342,344,346,348 | 11 | 3 | 343,345,347,349 |
| 10 | 4 | 350,352,354,356 | 11 | 4 | 351,353,355,357 |
| 10 | 5 | 358,360,362,364 | 11 | 5 | 359,361,363,365 |
| 10 | 6 | 366,368,370,372 | 11 | 6 | 367,369,371,373 |
| 10 | 7 | 374,376,378,380 | 11 | 7 | 375,377,379,381 |

**Attribute: side**

**Fullname:** Side

**Attribute Description** This attribute identifies the system side of the TMS that owns the NCT link described by a tuple. This attribute is used as part of the key to this relation along with the lnknum attribute described here.

The domain of this attribute is BFSIDE, or one bit. The enumeration (DMSIDE) values that can be assumed by this attribute are SM5SIDE0 for system side 0 and SM5SIDE1 for system side 1.

If the NCT link described by a tuple is owned by the TMS on system side 0, populate this attribute with SM5SIDE0. Otherwise, populate this attribute with SM5SIDE1.

**Attribute: imnum**

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**Fullname:** SM number.

**Attribute Description** This attribute identifies the LSM/HSM/ORM/TRM that is connected to the NCT link described by this tuple. Note that there will be two tuples in this relation for each LSM/HSM/ORM/TRM in the office, since each LSM/HSM/ORM/TRM requires an even and odd NCT link.

The domain of this relation is BFMODULE, or an unsigned bit field that is eight bits wide. The values that can be assumed by this attribute range from 1 to 48 for a CM1 office, and 1 to 192 for a CM2/CM2C office.

This attribute should be populated with the identifier of the LSM/HSM/ORM/TRM that is connected to the NCT link described by this tuple.

A SM-2000 interfaced to a CM2C will have four entries per tuple in RLmodatt (2 pairs) since a maximum of 2 NCT links per ONTC side is supported.

***NOTE:*** During growth of a TMSLNK, there may be no associated SM number. Therefore if the equipage state of the TMSLNK is SMGROW, then imnum will equal 0.

**Attribute: eqstat**

**Fullname:** Equipage status

**Attribute Description** This attribute describes the equipage status of the NCT link described by the tuple.

The domain of this attribute is BFEQSTAT, or three bits. The enumeration (DMEQSTAT) values that can be assumed by this attribute are:

SMOPER - The NCT link described by this relation is equipped.

SMGROW - The NCT link is being grown.

SMSGRO - The LSM/HSM/ORM/TRM connected to this NCT link is in the SMSGRO state. A link in this state can be initialized, and can have its interrupts enabled but can not be used for setting up Level 2 protocol.

SMUNEQ - The NCT link is unequipped.

Populate this attribute with SMOPER for all equipped NCT links that are connected to an SM (local or host). Note that in a CM2 office for each equipped QLI, there must be four TMS links defined in the ODD, that is, four tuples in this relation. Again, each link among those four that is connected to an SM must be marked SMOPER and the remaining ones must be marked SMGROW. This applies to all QLIs except QLI 0 in shelves 0 and 1. As is evident from the previous charts, those QLIs should only have two tuples.

**Attribute: sl_spr1**

**Fullname:** Spare attribute #1

**Attribute Description** Currently unused.

**Attribute: sl_spr2**

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**Fullname:** Spare attribute #2.

**Attribute Description** Currently unused.

**Attribute: qli_cli**

**Fullname:** QLI(2) CLI value.

**Attribute Description** This attribute contains the QLI(2) CLI value for the QLI that terminates the specified TMSLNK. There is no assumption being made concerning QLI(2) replacement (that is, QLIs can be different on different ONTC sides), so provisions are made in this relation for QLI(2) boards to have independent CLI values.

The QLI CLI value for the Small Office CM2C should be set DGVNULL (0x00).

***NOTE:*** A QLI(2) will terminate 4 TMS links, yet each entry in this relation will specify only one link. Thus, there is some redundancy in the QLI(2) CLI value. Since DGN is the only place where this data is be needed, and faults occur on a link basis, it was decided that this is the proper place to store QLI(2) CLI values. Whenever a QLI(2) is replaced, maintenance will need to modify RLslnktms for ONLY ONE of the (possible) 4 links associated with the changed QLI. RC/V will calculate tha other affected links and change their qli_cli attribute values automatically.

NOTE: QLI2 is not supported by ORM or ORM 2000.

**Attribute: trcu_pi**

**Fullname:** TRCU path index.

**Attribute Description** This is the TRCU path that this TMSLNK connects.

**Defines:**
"db/DMclidef.h",
"db/DMrellnkno.h"

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# SLVD_G

## 1. Description

Sleeve lead global port name.

This is a child storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4096 |
| expected tuples | 200 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTORAGE |
| head table size | 512 |
| data page size | 512 |
| page level | 2 |
| index length | 8 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel GK-index relation | rlSLVD_I |

## 3. Field Layout

```
SLVD_G      relid = 1647  DBSTORAGE  DBACC_GK    DBPRAM    FP      NULL
     gkSLVD_G    DMGK14       (ulong: 14)  <--- key, not stored
     sleevld     DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User and Compacted Tuple Layout     SLVD_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkSLVD_G             |
    |===============+=========== sleevld ===========+===============|
    |                                 |                |              |
  4 |              member             |****************|     module   |
    |===============+===============+================+==============|
       ( 8 bytes )

     sleevld     DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
           Stored Tuple Layout   SLVD_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                          GK LINK FIELD                        |
    |===============+=========== sleevld ===========+===============|
    |                                 |                |              |
  4 |              member             |****************|     module   |
    |===============+===============+================+==============|
```

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```
( 8 bytes )
```

## 4. Population Rules for RLslvd_g

There are no population rules for this relation.

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# SM_APID

## 1. Description

SM to attached processor site identifier.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
SM_APID     relid = 1761  DBSTATIC   DBACC_LIN   DBPRAM    FR      NULL
     sm          DMMODULE     (ushort: 8)     <--- key
     apsite      DMAPSITE     (ushort: 8)
     spare1      DMUNS8       (ushort: 8)
     spare2      DMUNS8       (ushort: 8)
     spare3      DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout    SM_APID
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  0 |       sm      |     apsite    |     spare1    |     spare2    |
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  4 |     spare3    |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLsm_apid

**Relation Description**
SpareThis  relation is a spare relation.

**Attribute: sm**

**Fullname:** Spare

**Attribute Description** Unknown.

**Attribute: apsite**

**Fullname:** Spare

**Attribute Description** Unknown.

**Attribute: spare1**

**Fullname:** Spare Field Number 1

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**Attribute Description** Unknown.

**Attribute: spare2**

**Fullname:** Spare Field Number 2

**Attribute Description** Unknown.

**Attribute: spare3**

**Fullname:** Spare Field Number 3

**Attribute Description** Unknown.

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# SM_DCHN

## 1. Description

This relation contains the SM and D-channel index to D-channel port and PRI group mapping. This relation will exist in 5E12SU and 5E13SU but will not be populated by ODA or RC. All software that references the relation is deleted and the trigger is changed to a stub. The relation will be deleted in 5E14 BMI.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8190 |
| expected tuples in relation | 5 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application type | RCDATA |
| relation type | DBSTATIC |
| density | 15 |
| trigger function | TMsm_dchn |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
SM_DCHN     relid = 1929  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCDATA
     dport       DMPORT       (ushort)
     prigrp      DMPRIGRP     (ushort: 12)
 (a) dchndesg    DMDCHNDESG   (enum: 2)
     sm          DMMODULE     (ushort: 8)    <--- key
     mate_sm     DMMODULE     (ushort: 8)
     dchn_idx    DMUNS7       (ushort: 7)    <--- key
     mate_idx    DMUNS7       (ushort: 7)
         User, Compacted and Stored Tuple Layout    SM_DCHN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                       |   |   |
  0 |             dport             |         prigrp        | a |***|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |   |
  4 |       sm      |    mate_sm    |   dchn_idx    |   mate_idx    |***|
    |---------------+---------------+---------------+---------------|
                              ( 8 bytes )
```

## 4. Population rules for RLsm_dchn

### Relation Description

SM (Switching Module) to D-Channel and PRI (Primary Rate Interface) Group Mapping.

This relation, which resides on the AM, contains a tuple for each PRI D-channel in the office. The tuple will contain the SM and D-channel index into the DD key for the D-channel, the D-channel port, the PRI group of the D-channel, and the SM and index of the D-channel backup mate, if one exists. This relation provides a mapping of the D-channel index

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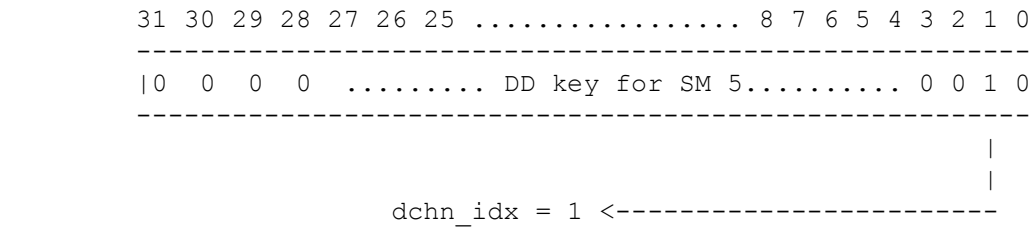
to the D-channel port, etc. This relation will be used by the OP:OFFNORM-PRI I/O command to find the D-channel information for a given D-channel index and SM.

**Attribute:**
sm
**Fullname:**
Switching Module
**Attribute Description:**
Gives the number of the SM {1 thru 192} where the D-channel is provisioned.

**Attribute:**
dchn_idx
**Fullname:**
D-channel index
**Attribute Description:**
Each PRI D-channel in an SM will be assigned a unique dchn_idx by ODA and RC/V. That index corresponds to a bit position in a PRI DD key. A copy of the PRI DD key from each SM is kept in the AM. If a bit 1 is set in the DD key for SM 5, for example, then the keys sm = 5 and dchn_idx = 1 are used to get the tuple in this relation for the D-channel corresponding to the set bit.

The mapping is as follows:




**Attribute:**
dport
**Fullname:**
D-channel port
**Attribute Description:**
This is the port name of the D-channel.

**Attribute:**
dchndesg
**Fullname:**
D-Channel Designation
**Attribute Description:**
The designation of the D-channel (either Primary or Secondary) that indicates the primary D-channel to be used when the DCBU feature is provisioned.

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**Attribute:**
prigrp
**Fullname:**
primary rate interface group name
**Attribute Description:**
This is the PRI group that the D-channel belongs to.

**Attribute:**
mate_sm
**Fullname:**
Switching Module of the Mate D-channel.
**Attribute Description:**
Gives the number of the SM {0 thru 192} where the mate D-channel is provisioned. The mate D-channel would only exist in the case of D-channel BackUp (DCBU).

**Attribute:**
mate_idx
**Fullname:**
Mate D-channel index
**Attribute Description:**
Each PRI D-channel in an SM will be assigned a unique dchn_idx by ODA and RC/V. (See dchn_idx description seen here.) When a PRI group has the D-channel Backup feature provisioned, then each D-channel has a mate D-channel (to form a D-channel pair). This attribute contains the index for the mate D-channel, if there is a mate provisioned.

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# SM_JIP

## 1. Description

SM Jurisdiction Information Parameter (JIP).

This relation defines the Number Portability (NP) - NP AMA Access Billing. This relation contains the information about the per-Switching Module JIP.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 192 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| application type | GCRTG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| trigger function | RTtrsf10 |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBNO |

## 3. Field Layout

```
SM_JIP      relid = 2756  DBSTATIC   DBACC_HASH  DBPRAM    LPFR    GCRTG
     ffcf5       DMHEX16      (ushort)
     sm          DMMODULE     (ushort: 8)     <--- key
 (a) ffcf1       DMBOOL       (enum: 1)
 (b) ffcf2       DMBOOL       (enum: 1)
 (c) ffcf3       DMBOOL       (enum: 1)
 (d) ffcf4       DMBOOL       (enum: 1)
     jip         DMDN6_BCD    (struct)
         dn0         DMBCD        (ushort: 4)
         dn1         DMBCD        (ushort: 4)
         dn2         DMBCD        (ushort: 4)
         dn3         DMBCD        (ushort: 4)
         dn4         DMBCD        (ushort: 4)
         dn5         DMBCD        (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
     ffcf6       DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout SM_JIP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               | | | | |       |
  0 |             ffcf5             |       sm      |a|b|c|d|*******|
    |===============+============= jip =============+===============|
    |       |       |       |       |       |       |       |       |
  4 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  | digcnt|*******|
    |===============+===============+===============+===============|
    |                                                               |
  8 |                            ffcf6                              |
    |---------------+---------------+---------------+---------------|
```

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```
( 12 bytes )
```

## 4. Population Rules for RLsm_jip

**Relation Description**
Switching Module Jurisdiction Information Parameter.

This relation contains the information about the per-Switching Module Jurisdiction Information Parameter (JIP).

**Attribute: sm**

**Fullname:** Switching Module

**Attribute Description** This key will be used for each Switching Module that has an Jurisdiction Information Parameter associated with it.

**Attribute: jip**

**Fullname:** Jurisdiction Information Parameter

**Attribute Description** This attribute will be used to indicate the Jurisdiction Information Parameter associated with the Switching Module indicated by the "sm" key attribute.

**Attribute: ffcf1**

**Fullname:** spare bit attribute 1

**Attribute Description** Spare bit attribute 1.

**Attribute: ffcf2**

**Fullname:** spare bit attribute 2

**Attribute Description** Spare bit attribute 2.

**Attribute: ffcf3**

**Fullname:** spare bit attribute 3

**Attribute Description** Spare bit attribute 3.

**Attribute: ffcf4**

**Fullname:** spare bit attribute 4

**Attribute Description** Spare bit attribute 4.

**Attribute: ffcf5**

**Fullname:** spare unsigned long attribute

**Attribute Description** Spare unsigned long attribute.

**Attribute: ffcf6**

**Fullname:** spare unsigned short attribute

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**Attribute Description** Spare unsigned long attribute. **Defines:** "db/DMdn6_bcd.h"

# SM_TRKG

## 1. Description

Trunk group data for SM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 400 |
| expected tuples in relation | 10 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
SM_TRKG     relid = 686   DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     tgroup      DMGRPNUM     (ushort)     <--- key
     imp_digits  DMIMPLIED    (array [ 5 ] of char )
 (a) impdigs_cnt  DMDIGCNT     (uchar: 4)
 (b) otrace      DMTRC_TYPE   (enum: 2)
 (c) rng_trt     DMDST_RNG    (enum: 2)
 (d) cut_lb1_allow  DMBOOL       (enum: 1)
 (e) cut_lb23_allow  DMBOOL       (enum: 1)
 (f) ident_allowed  DMBOOL       (enum: 1)
 (g) num_unobtain  DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout    SM_TRKG
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             tgroup            |           imp_digits          |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                               |       |   |   |
 4 |                   imp_digits                  |   a   | b | c |
   |---------------+---------------+---------------+---------------|
   | | | | |                                                       |
 8 |d|e|f|g|*******************************************************|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population Rules for RLsm_trkg

There are no population rules for this relation.

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# SMADDSC

## 1. Description

Abbreviated dial list descriptor: Contains information about an AD list needed during feature assignment.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 30000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 2048 |
| data page size | 512 |
| page level | 0 |
| foldtype | DBGC31 |

## 3. Field Layout

```
SMADDSC     relid = 977   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     adid        DMFACID      (ushort)  <--- key
     adcount     DMUNS16      (ushort)
     module      DMMODULE     (ushort: 8)  <--- key
     class       DMFACLASS    (enum: 5)  <--- key
         User, Compacted and Stored Tuple Layout    SMADDSC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              adid             |            adcount            |
    |---------------+---------------+---------------+---------------|
    |               |         |                                     |
  4 |     module    |  class  |*************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLsmaddsc

**Relation Description**
Abbreviated dialing list count.

See general information section.

There is a tuple in this relation for every speed calling list: 1 digit, 2 digit(unshared). This occurs for 1 digit speed calling if the list is associated with a line that belongs to an SC modular feature. The list then has 6 entries. This can also occur if the list has been built specifically with entries in it that total a different number than the default. ( 8 for 1digit and 30 for 2digit).

Except for the following circumstances:

a) For 1 digit (unshared) if the adcount is 8, no tuple is required in this relation.

b) For 2 digit (unshared) if the adcount is 30, no tuple is required in this relation.

**Attribute: adid**

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**Fullname:** abbreviated dialing identifier

**Attribute Description**

adid Indicates the internal id for the unshared abbreviated dial list. Valid values: number from 1 to 65535. This is sc_list_id from the relation RLsc_port only if sc_shared=DBNO

**Attribute: class**

**Fullname:** class

**Attribute Description**

class Indicates the type of speed call list. The following enumerated values are valid: FACAD1- 1 digit speed call list. FACAD2- 2 digit speed call list.

**Attribute: module**

**Fullname:** module

**Attribute Description**

module SM Module number: Valid values are from 1 to 192

**Attribute: adcount**

**Fullname:** abbreviated dialing list count

**Attribute Description**

adcount Indicates the number of entries in the speed call list. Valid values: number from 1 to 120.

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# SMCONF

## 1. Description

Switching module configuration.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 194 |
| expected number of tuples | 24 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTATIC |
| head table size | 1024 |
| data page size | 1024 |
| page level, must remain at one page | 1 |
| trigger function | DB_smconf |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| manual - NO automation | DBYES |
| permutation type - permutation type must remain unperm | unperm |

## 3. Field Layout

```
SMCONF      relid = 747   DBSTATIC   DBACC_CIND  DBPRAM    LR      NULL
     module      DMMODULE     (ushort: 8)  <--- key
     smconfig    DMSMCONFIG   (enum: 8)
     oddpart     DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout SMCONF
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  0 |     module    |    smconfig   |    oddpart    |***************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLsmconf

**Relation Description**
SM configuration.

This relation contains the configuration associated with each switch module (SM).

(1) RLsmconf has a dependency on the following global parameter. GLconfigname - This parameter indicates which configuration is in each SM and must populated with the same value.

(2) For 5E3, the config attribute may not be updated from D_STANDARD to D_LOADED. In 5E3, once the config attribute is populated, it is not recent changeable. In 5E3, tuples may only be inserted not updated.

(3) This relation must remain within one contiguous page for retrofit purposes. If attributes need to be added, this restriction must be complied with.

**Attribute: module**

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**Fullname:** module.

**Attribute Description** This attribute uniquely identifies each SM and CMP with which the office is equipped. This attribute is used as the key for this relation.

The domain (DMMODULE) of this attribute is unsigned 8 bits, therefore the maximum range is 0 to 255. However, actual range is smaller than that. For a CM1 office, the maximum number of SMs is 48 so the valid range is 1 to 48 for the SMs and 194 and 206 for the CMPs. For a CM2 office, the maximum number of SMs is 192, so the valid range is 1 to 192 for the SMs and 194 and 206 for for the CMPs Note that the value 193 is used to represent the administrative module (AM), although no tuple is needed in this relation to represent the AM.

SMs should be assigned numbers that are consistent with the range limits of the office vintage as described in the preceding paragraph. Also, the assigned numbers must uniquely identify each SM in the office.

**Attribute: smconfig**

**Fullname:** SM configuration.

**Attribute Description** This attribute specifies the configuration of the SM. The configuration only indicates the software packages that will be resident in an SM. The software packages that are loaded for each configuration can be found in the feature database file, fdbtables, and should not be listed in the following descriptions since changes to fdbtables would cause inconsistencies with the descriptions that would be difficult to avoid. Likewise, references to hardware units that may or may not be supported for a given configuration should not be included in the descriptions. The domains for the configurations are defined as enums in DMsmconfig.G.

The valid configurations are:

```
CNFG000  Basic
CNFG001  Standard
CNFG002  Loaded
CNFG2K00 SM-2000
CNFG003  SIGNALING
CNFG001  is to be used for the CMP.
```

This attribute, smconfig, depends on the global parameter GLconfigname which also specifies the configuration of a SM. Both must be populated with the same value.

**Attribute: oddpart**

**Fullname:** ODD partition number.

**Attribute Description** This attribute indicates the ODD partition number for the SM, which is the disk out-board pair number that the SM ODD resides. Its value is 1 - 6.

To determine the ODD partition number, the rules are described in the following:

(1) The sizes of ODD partitions are known, that is, the disk configurations are known, which are determined from an ODA input form (ecdopt for initial offices, retinfo for retrofits and large terminal growths) which shows how each disk pair is used, and, secondly from a fixed, generic-dependent table specifying how much space is available based on how the office is using each disk pair.

The generic-dependent table can be found in the customer documentation manual:

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*ADMINISTRATION AND ENGINEERING GUIDELINES* - 235-070-100 under the following headings:

```
AM/CMP RESOURCE UTILIZATION
AM DISK DRIVE FACILITIES
MEMORY MANAGEMENT
```

(2) The sizes of SM ODDs are known, which are determined from DBGEN output messages.

(3) In each ODD partition, reserve a fixed amount of space for files other than SM ODDs. For 5E4(2), reserve 8 Megabytes in each SM ODD partition for the imodd.scr scratchpad file.

(4) Assign SM ODDs to ODD partitions so that each SM ODD partition has at least 10% unused space.

(5) Assign SM ODDs sequentially to ODD partitions filling one ODD partition at a time until no more SM ODDs can be assigned to the ODD partition per the previous requirements.

For a CMP the oddpart should be set to zero.

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# SMFACIDS

## 1. Description

This relation is used to maintains list of available FAC ids for the Unshared Abbreviated Dialing Lists.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1023 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |
| corcable | DBYES |

## 3. Field Layout

```
SMFACIDS    relid = 976   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     facid       DMFACID      (ushort) <--- key
     reclaimid   DMFACID      (ushort)
     lastused    DMFACID      (ushort)
     class       DMFACLASS    (enum: 5) <--- key
     qid         DMQID        (ushort: 2) <--- key
 (a) subclass    DMFACSUBCL   (enum: 4) <--- key
         User, Compacted and Stored Tuple Layout   SMFACIDS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              facid            |           reclaimid           |
    |---------------+---------------+---------------+---------------|
    |                               |         |   | | |       |       |
  4 |            lastused           |  class  |qid|*|   a   |*******|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLsmfacids

### Relation Description

```
        SM internal FAC identifier

        Maintains list of available FAC ids for
        Unshared Abbreviated Dialing Lists.

        This relation contains the data required for allocating
        unique SM facids.  A tuple exists in this relation for each
        class, and subclass that has allocated SM facids. This is
        called the master tuple for the given class and subclass.
        RLsmfacids tracks the use of facids for unshared speed
        call lists for a given SM ( it is SM partitioned ).  This
        relation consists of four link lists or queues containing
        available SM FAC ids. This strategy supports concurrency
        by allowing upto four users retrieve indices simultaneously.
        This relation is to each SM for unshared speed calling as
```

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RLfacids is to the 5ESS(R)-2000 switch office for shared speed calling. The master tuple contains a last used field which holds the value of the last sequentially assigned facid. The master tuple also contains the head of a link list of facids for that class and subclass which were used but now are no longer in use.

| facid | class | subclass | qid | reclaimid | lastused |
|---|---|---|---|---|---|
| 0 | FACAD1 | SCL_BAS | 0 | 0 | 0 |
| 0 | FACAD1 | SCL_BAS | 1 | 0 | 0 |
| 0 | FACAD1 | SCL_BAS | 2 | 0 | 0 |
| 0 | FACAD1 | SCL_BAS | 3 | 0 | 0 |

the associated master tuple for the extended relation should be created along with the first page of tuples for the extended relation as follows:

Four queues of available indices are maintained for facids with subclass of SCL_BAS. Free facids are added to the appropriate queue which is determined by dividing the facid value by the number of queues. The remainder of this division is the appropriate queue number. If this queue is busy, the index is placed on a non-busy queue. Recent Change retrieves indices by using the best fit algorithm. The best fit algorithm reads the master cell of each queue and retrieves an index from a non-busy queue containing available indices. If the non-busy queues are empty, the index is retrieved from the queue containing the lowest index value of the attribute lastused. The value of lastused in that queue is incremented by the number of queues. The attribute lastused defines the next index value for each queue.

If the master tuple for 1digit unshared lists is created the following should be created.

1) master tuple for 1digit extended relation as follows:

| facid | class | subclass | qid | reclaimid | lastused |
|---|---|---|---|---|---|
| 0 | FACAD1 | SCL_EXT | 0 | 0 | 0 |

2) first 32 tuples added for RLad1e_idp
   key=0-31 and Null digits in all 22 digit positions

If the master tuple for 2digit unshared lists is created then the following should be created.

1) master tuple for 2digit extended relation as follows:

| facid | class | subclass | qid | reclaimid | lastused |
|---|---|---|---|---|---|
| 0 | FACAD2 | SCL_EXT | 0 | 0 | 0 |

2) first 32 tuples added for RLad2e_idp
   key=0-31 and Null digits in all 22 digit positions

Available facids with subclass SCL_EXT will be retrieved and placed in one queue. The qid within these tuples will be zero. The index value of lastused is retrieved if the queue of available indices is empty. The attribute

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lastused defines the last used highest index value.
In addition, a tuple exists in this relation for each SM facid to be reclaimed for a given class, and subclass.
Graphical representation of RLsmfacids

RLsmfacids

| facid | class | subclass | qid | reclaimed | lastused |
|---|---|---|---|---|---|
| 0 | FACAD1 | SCL_BAS | 0 | 4 | 14 |
| 0 | FACAD1 | SCL_EXT | 0 | 0 | 3 |
| 0 | FACAD2 | SCL_BAS | 1 | 0 | 8 |
| 0 | FACAD2 | SCL_EXT | 0 | 1 | 2 |
| 4 | FACAD1 | SCL_BAS | 0 | 0 | 0 |
| 1 | FACAD2 | SCL_EXT | 0 | 0 | 0 |

master tuple RLad1b_idp

master tuple RLad1e_idp

master tuple RLad2b_idp

master tuple RLad2e_idp

RLad1b_idp

| ad1_idp_id | adcode | digcnt | digits |
|---|---|---|---|
| 1 | 2 | 0 | |
| 1 | 3 | 15 | *910288312/0001 |
| . | . | . | |
| . | . | . | |
| 14 | 2 | 15 | *910354201/0002 |
| 14 | 3 | 15 | *910354201/0003 |
| 14 | 4 | 0 | |
| 14 | 5 | 0 | |

RLad1e_idp

| adxe_idp_id | digits |
|---|---|
| 0 | |
| 1 | 5551212 |
| 2 | 8981234 |

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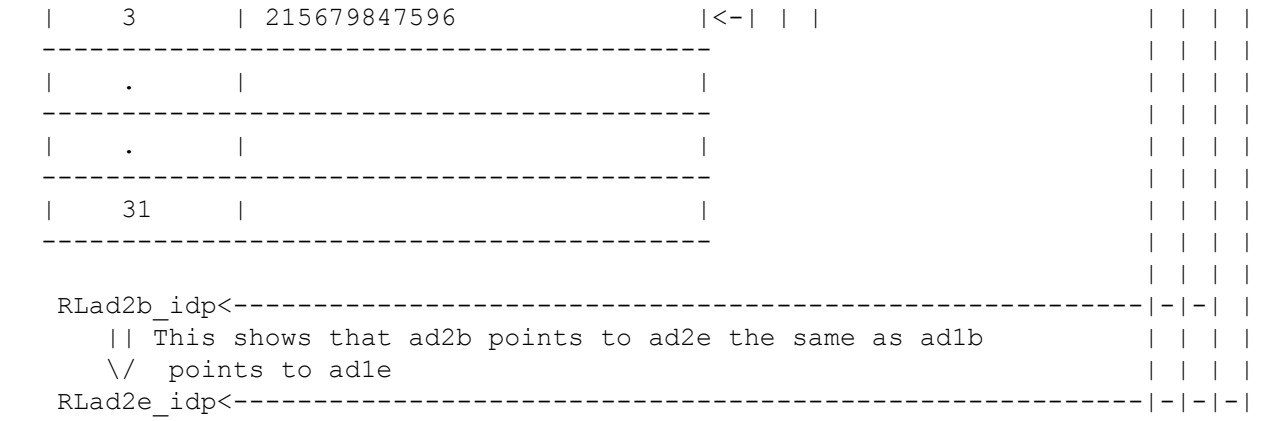


**Attribute:**
facid
**Fullname:**
internal FAC identifier
**Attribute Description:**
When facid is zero, the tuple is known as the subclass master tuple and contains the lastused subclass id. Thus there are two subclass master tuples for classes FACAD1 and FACAD2. If fid is non-zero, the tuple represents a reclaimable fid for this sub-class.
Dependencies: None.

**Attribute:**
class
**Fullname:**
identifies class of facid
**Attribute Description:**
Externally known names are divided into a number of classes. This is an enumerated type identifying the class associated with the external name. This attribute allows each class to have its own unique name space.

Valid classes are:
FACAD1- name of a 1 digit speed call list.
FACAD2- name of a 2 digit speed call list.
Dependencies: None.

**Attribute:**
subclass
**Fullname:**
identifies subclass of facid

**Attribute Description:**
Each class can be divided into two subclasses.

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```
        Each of which shares the same
        name space,  however each subclass has its own
        set of identifiers.

        Valid subclasses are:

        SCL_BAS: This subclass defines the sequential
                 ids for basic tuples RLad1b_idp and
                 RLad2b_idp.
        SCL_EXT: This subclass defines the sequential
                 ids for extended tuples RLad1e_idp and
                 RLad2e_idp.
        If class == FACAD1 || FACAD2 then
        subclass == {SCL_BAS || SCL_EXT}
        Dependencies: None.
```

**Attribute:**
qid
**Fullname:**
queue identifier
**Attribute Description:**
This attribute defines the queue is being referenced.

**Attribute:**
reclaimid
**Fullname:**
next FAC id to be reclaimed
**Attribute Description:**
This attribute is used to keep a linked list of tuples representing the internal facids to be reclaimed for a given class, and subclass. If the value is zero this indicates the end of the linked list. If > 0 it indicates the existence of another tuple in this relation keyed by the class, and subclass, and facid equal to the reclaimed id in this relation.
Default: 0 for master tuple.
Dependencies: None.

**Attribute:**
lastused
**Fullname:**
last FAC id used
**Attribute Description:**
If this is the master tuple for a given class, and subclass then this field indicates the highest internal identifier allocated. If this is a reclaim tuple, then this attribute is set to zero.
Default: 0 for non-master tuples.
Dependencies: None.

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# SMGTGDXC

## 1. Description

This relation contains the map the grids to it GDXCONCENTRATORS.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 24 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
SMGTGDXC    relid = 170   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     smgrid      DMCIRCUIT    (ushort) <--- key
         User and Compacted Tuple Layout   SMGTGDXC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |              smgrid            |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
     smgrid      DMCIRCUIT    (ushort) <--- key
           Stored Tuple Layout     SMGTGDXC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |              smgrid            |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population rules for RLsmgtgdxc

### Relation Description

```
        Switch Maintenance GeT Gated Diode crosspoint Controller
        This relation contains the listing of the Gated Diode Crosspoint
        (GDX) grid equipage.
```

**Attribute:**

```
        smgrid
```

**Fullname:**

```
        Switch Maintenance GDX Grid internal name
```

**Attribute Description:**

```
        The switch maintenance GDX grid is of the type PCGRID for line
        unit one (SMLU), of the type PCLUGRID for line unit four (SMLU4)
        and of the type PCLCGRID for line units two and three (SMC1LU,
        SMLU3).
```

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# SMPORTBL

## 1. Description

This relation defines the Inter-SM ports in the "home" SM which are connected to a specific mate SM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 192 |
| expected number of tuples | 6 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 27 |
| trigger function | TMsmportbl |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
SMPORTBL    relid = 823   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     mate_sm     DMMODULE     (ushort: 8)  <--- key
     dlt_cnt     DMUNS5       (ushort: 5)
     ports00     DMPORTINDX   (ushort)
     ports01     DMPORTINDX   (ushort)
     ports02     DMPORTINDX   (ushort)
     ports03     DMPORTINDX   (ushort)
     ports04     DMPORTINDX   (ushort)
     ports05     DMPORTINDX   (ushort)
     ports06     DMPORTINDX   (ushort)
     ports07     DMPORTINDX   (ushort)
     ports08     DMPORTINDX   (ushort)
     ports09     DMPORTINDX   (ushort)
     ports10     DMPORTINDX   (ushort)
     ports11     DMPORTINDX   (ushort)
     ports12     DMPORTINDX   (ushort)
     ports13     DMPORTINDX   (ushort)
     ports14     DMPORTINDX   (ushort)
     ports15     DMPORTINDX   (ushort)
     ports16     DMPORTINDX   (ushort)
     ports17     DMPORTINDX   (ushort)
     ports18     DMPORTINDX   (ushort)
     ports19     DMPORTINDX   (ushort)
     ports20     DMPORTINDX   (ushort)
     ports21     DMPORTINDX   (ushort)
     ports22     DMPORTINDX   (ushort)
     ports23     DMPORTINDX   (ushort)
     ports24     DMPORTINDX   (ushort)
     ports25     DMPORTINDX   (ushort)
     ports26     DMPORTINDX   (ushort)
     ports27     DMPORTINDX   (ushort)
     ports28     DMPORTINDX   (ushort)
     ports29     DMPORTINDX   (ushort)
```

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```
    ports30     DMPORTINDX   (ushort)
    ports31     DMPORTINDX   (ushort)
        User, Compacted and Stored Tuple Layout   SMPORTBL
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |         |     |                               |
 0 |    mate_sm    | dlt_cnt |*****|            ports00            |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 4 |            ports01              |            ports02            |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 8 |            ports03              |            ports04            |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
12 |            ports05              |            ports06            |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
16 |            ports07              |            ports08            |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
20 |            ports09              |            ports10            |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
24 |            ports11              |            ports12            |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
28 |            ports13              |            ports14            |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
32 |            ports15              |            ports16            |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
36 |            ports17              |            ports18            |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
40 |            ports19              |            ports20            |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
44 |            ports21              |            ports22            |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
48 |            ports23              |            ports24            |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
52 |            ports25              |            ports26            |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
56 |            ports27              |            ports28            |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
60 |            ports29              |            ports30            |
   |---------------+---------------+---------------+---------------|
```

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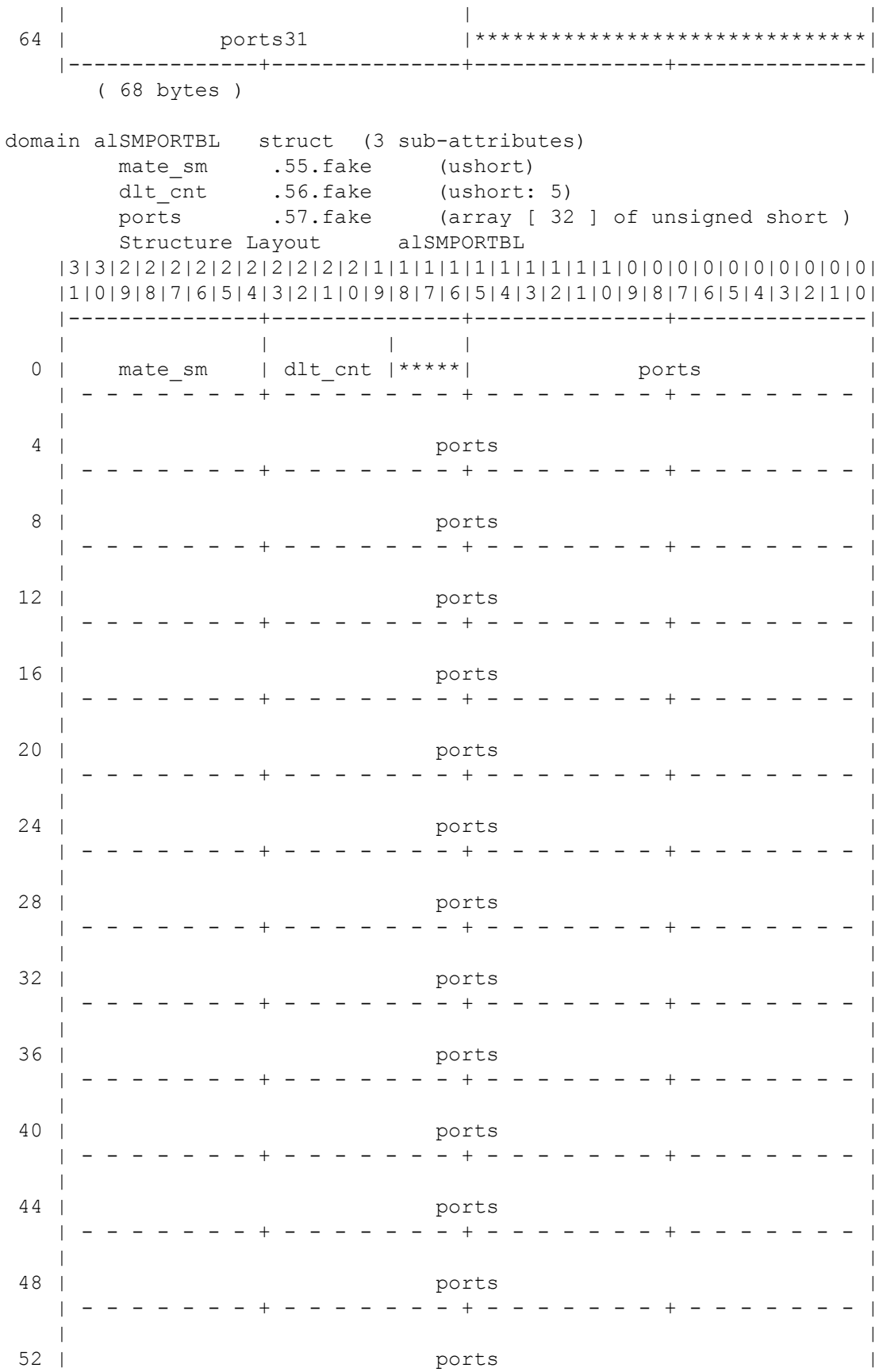
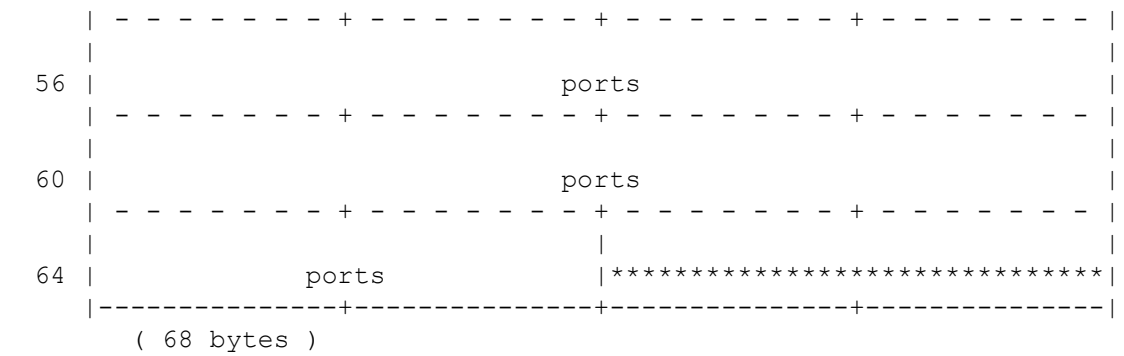

ports31
( 68 bytes )
domain alSMPORTBL struct (3 sub-attributes)
mate_sm .55.fake (ushort)
dlt_cnt .56.fake (ushort: 5)
ports .57.fake (array [ 32 ] of unsigned short )
Structure Layout alSMPORTBL
mate_sm
dlt_cnt
ports




## 4. Population Rules for RLsmportbl

**Relation Description**
Inter-SM ports in the home SM which are connected to a specific mate SM.

This relation defines the inter-SM ports (up to 32) on this SM which have a ISM path termination to the indicated mate SM.

**Attribute: mate_sm**

**Fullname:** SM number of the mate SM

**Attribute Description** The SM number of the mate SM which is connected via the Inter-SM path to all of the following 'home' SM's DLT ports mentioned. Populate with the mate SM number (1-192) which is specified in the MATE_SM field in RLismpath relation. This SM number cannot match the 'home' SM number.

**Attribute: dlt_cnt**

**Fullname:** the (number minus 1) of DLT ports

**Attribute Description** The (number minus 1) of DLT ports populated in the DLT port array. This number should be the index to the last element in the array that contains a valid DLT port name; therefore, its value is 1 less than the actual number of ports stored in PORTS array.

**Attribute: ports[*]**

**Fullname:** ports

**Attribute Description** This is an array with 32 elements which contains the port index's of the DLT port names of the ports in the 'home' SM connected to the MATE_SM.

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# SMPSU

## 1. Description

This relation provides the mapping from SM and PSU unit number to a unique PSU Community Address (CA).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 192 |
| expected tuples in relation | 64 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFP |
| relation type | DBSTATIC |
| trigger function | SMt_smpsu |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ks keystore | AUTO |

## 3. Field Layout

```
SMPSU       relid = 2156  DBSTATIC   DBACC_CIND  DBPRAM    LRFP    NULL
     sm          DMMODULE     (ushort: 8) <--- key, not stored
 (a) psu         DMUNS1       (ushort: 1) <--- key, not stored
     psu_ca      DMPSUCA      (uchar)
     pha_cnt     DMUNS5       (ushort: 5)
 (b) crit_psu    DMBOOL       (enum: 1)
         User and Compacted Tuple Layout  SMPSU
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               | |                                           |
  0 |       sm      |a|*******************************************|
    |---------------+---------------+---------------+---------------|
    |               |         | |                                   |
  4 |     psu_ca    | pha_cnt |b|***********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )

     psu_ca      DMPSUCA      (uchar)
     pha_cnt     DMUNS5       (ushort: 5)
 (a) crit_psu    DMBOOL       (enum: 1)
           Stored Tuple Layout    SMPSU
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |         | |                                   |
  0 |     psu_ca    | pha_cnt |a|***********************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population rules for RLsmpsu

**Relation Description**

```
        This relation provides PSU Community Address (CA)
```

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This relation provides the mapping from SM and PSU number to a unique PSU Community Address (CA). This relation also provides the network connection type.

**Attribute:**
psu
**Fullname:**
PSU number (key)
**Attribute Description:**
Peripheral Switching Unit Number

**Attribute:**
sm
**Fullname:**
Switching Module (key)
**Attribute Description:**
Switching Module Number

**Attribute:**
pha_cnt
**Fullname:**
Number of operational PHAs on a per SM basis
**Attribute Description:**
This indicates the number of operational PHAs on a per SM basis.

**Attribute:**
psu_ca
**Fullname:**
PSU Community Address
**Attribute Description:**
This indicates the PSU Community Address associated with a SM and a PSU.

**Attribute:**
crit_psu
**Fullname:**
Critical PSU Indicator
**Attribute Description:**
This indicates whether or not this PSU is a critical unit for the SM.

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# SMSCU

## 1. Description

Information about Message Switch Control Unit (MSCU) side.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | SWMTC |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 1 |

## 3. Field Layout

```
SMSCU       relid = 569   DBSTATIC   DBACC_CIND  DBPRAM    LP      SWMTC
     filenm      DMUCHR14     (array [ 14 ] of unsigned char )
 (a) iia_normal  DMSTATUS     (enum: 2)
 (b) side        DMSIDE       (enum: 1)  <--- key
         User, Compacted and Stored Tuple Layout  SMSCU
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                             filenm                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                             filenm                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             filenm                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |   | |                         |
 12 |             filenm            | a |b|*************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLsmscu

**Relation Description**
Side of the Message Switch Control Unit.

Information concerning this section is not available at this time. CM2 MSCU3 Hardware Cost Reduction i6242.

**Attribute: side**

**Fullname:** side of the CP hardware unit

**Attribute Description** This attribute is used as the key to this relation. It is used to determine which MSCU a tuple describes.

The domain of side is BFSIDE, or a bit field that 1 bit wide. The enumeration (DMSIDE) value that

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side may assume is SM5SIDE0 or SM5SIDE1.

There should only be two tuples in this relation. On one tuple, side should be populated with SM5SIDE0, and on the other, side should be populated with SM5SIDE1.

**Attribute: iia_normal**

**Fullname:** interrupt inhibited or allowed

**Attribute Description** This attribute describes the state of the MSCU interrupts when the MSCU is operating normally, that is, whether the interrupts should be allowed or inhibited.

The domain of iia_normal is BFSTATUS, or a bit field that is 1 bit wide. The enumeration (DMSTATUS) value iia_normal may assume is SMALLOW or SMINHIBIT.

This attribute should be populated with SMALLOW.

**Attribute: filenm**

**Fullname:** filename

**Attribute Description** This attribute describes the name of the file that contains the partial patch for the MSCU2 firmware. This attribute is meaningless for the MSCU1 since the MSCU1 can not be pumped.

The domain of filenm is a 14-character string. The string values that this attribute can assume are of the following format:

MSCUCMvxxxxxxx

where, v indicates the vintage of the MSCU, that is, 1 or 2 (Note: the MSCU2 enumeration for vintage will also be used for MSCU3), and xxxxx describes the version of the RAM code file.

For a CM1 office, populate this attribute with the following string:

MSCUCM1NULL

For a CM2 office, populate this attribute with the following string:

MSCUCM20000000

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# SMSEQIDX

## 1. Description

This relation maintains a linked lists of keys of removed tuples in relations whose keys are assigned sequentially.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected tuples in relation | 32 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 6 |
| corcable | DBYES |
| permutation type | unperm |

## 3. Field Layout

```
SMSEQIDX    relid = 1310  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     qid         DMQID        (ushort: 2) <--- key
 (a) appl_cls    DMAPPL_CLS   (enum: 4) <--- key
     seq_key     DMSEQIDX     (ushort: 16) <--- key
     next_idx    DMSEQIDX     (ushort: 16)
     last_key    DMSEQIDX     (ushort: 16)

         User, Compacted and Stored Tuple Layout   SMSEQIDX
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |   |       |                   |                               |
  0 |qid|   a   |*******************|            seq_key            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            next_idx           |            last_key           |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLsmseqidx

### Relation Description

```
        SM Sequential Indexing
        This is an SM relation which is designed
        for tracking relations whose key needs to
        be sequentially assigned.

        This is a relation to maintain linked lists of removed
        application tuples for reuse and to maintain sequential
        order in application-key assignment.
        Each application class consists of 4 linked lists
        whose head tuples are identified by  seq_key = 0.

        HEAD TUPLE
        ----------
        When there no pre-allocated application tuples,  ODA
        should populate the empty head tuples as follows:
```

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Example: 4 empty head tuples for SLE_SCAR

| qid | appl_cls | seq_key | next_idx | last_key |
|---|---|---|---|---|
| 0 | SLE_SCAR | 0 | 0 | 0 |
| 1 | SLE_SCAR | 0 | 1 | 0 |
| 2 | SLE_SCAR | 0 | 2 | 0 |
| 3 | SLE_SCAR | 0 | 3 | 0 |

This set of four empty head tuples must be populated
for every application class defined in the APPL_CLS
domain.

A head tuple contains
1) qid whose purpose is to distribute the selection
   of the head cell to use upon allocating or
   deallocating application tuples.
2) appl_cls which indicates the application class.
3) seq_key which is zero.
4) next_idx which is the index to be assigned to
   the application tuple (LSFSCA tuple for example)
   if there is no deleted tuple in this list,
   When an application tuple is to be allocated and
   there is no free tuple (last_key of the head tuple
   is equal to zero), this next_idx will be assigned
   to the application. This field will be incremented
   by 4 (four) upon completion of allocation.
5) last_key which is an index to the tuple at the end of
   the linked list (SMSEQIDX relation)
   This tuple contains the index to the deleted
   application tuple. (such as, LSFSCA)
   Since the index is assigned sequentially, this last_key
   also means the number of deleted application tuples
   linked in this list (head tuple).
   When an application tuple is to be allocated, this
   last_key of the head tuple will be examined.
   If the last_key is non-zero, the index to be assigned
   to the application tuple is the next_idx of the tuple
   pointed by the last_key of the head tuple.
   The tuple will be removed from the linked list and
   the last_key will be decremented when the allocation
   is complete.
   When an application tuple is deleted, the index will
   be stored in the next_idx field of a tuple of SMSEQIDX
   relation whose key is (last_key + 1).
   This SMSEQIDX tuple will be attached at the end of
   the list and the last_key field of the head tuple
   will be incremented by one.

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```
CONCURRENCY
-----------
Four (4) head tuples are allocated to resolve RC/V
concurrency issues. To maintain the parallelism to
other existing mechanisms (speed calling and ICLID
features), the same 'qid' concept is employed in
this relation.
RC/V can select any of four head tuples (or queues)
to allocate or to de-allocate application tuples.
This implies that up to 4 RC/V transactions can be
open without blocking each other.

Choosing a head tuple (or queue)
--------------------------------
Explaining the detailed design is not the author's
intention but here are design recommendations:
1) Maintain a local dynamic data structure which
   contains next_idx and last_key of each head
   tuple.  Manipulating a local dynamic structure
   in the AM is much faster than working with
   static data structures on a SM to select the
   proper head tuple.
2) When allocating a tuple, the first choice of
   the head tuple is one with the largest last_key.
   If the last_key's are same for all four head tuples,
   one with the smallest next_idx will be the first
   choice.
3) When de-allocating a tuple, the first choice of
   the head tuple is one with the smallest last_key.
4) Selecting the head tuple should be done by manipulating
   the local dynamic data structure.
5) Once a head tuple is selected, the transaction will
   begin. The dynamic data should be updated so that they
   match with the next_idx and last_key of the head tuple.
6) If there is a big discrepancy between the dynamic data
   and the head tuple (next_idx and last_key), it will be
   assumed that the dynamic data is corrupted (whatever
   reason).  In this case, three other head tuples will
   be read and the dynamic data will be updated from the
   head tuples.
   This 'self-audit' mechanism guarantees the integrity
   of the dynamic data.

ALLOCATION/DE-ALLOCATION of TUPLES - 5E6 LASS SCREEN LIST
---------------------------------------------------------
Thirty-two head tuples are needed to maintain eight 5e6 LASS
application classes: SLE_SCAR, SLE_GSCAR, SLE_SCF, SLE_GSCF,
SLE_SCR, SLE_GSCR, SLE_SDA and SLE_GSDA (4 head tuples per
each application class)

Example of LSFSCA
-----------------------------------------------------
1. Allocating the first tuple of LSFSCA relation
    Before allocating a tuple
```

| qid | appl_cls | seq_key | next_idx | last_key |
|---|---|---|---|---|
| 0 | SLE_SCAR | 0 | 0 | 0 |
| 1 | SLE_SCAR | 0 | 1 | 0 |
| 2 | SLE_SCAR | 0 | 2 | 0 |
| 3 | SLE_SCAR | 0 | 3 | 0 |

After allocating a tuple

| qid | appl_cls | seq_key | next_idx | last_key |
|---|---|---|---|---|
| 0 | SLE_SCAR | 0 | 4 | 0 |
| 1 | SLE_SCAR | 0 | 1 | 0 |
| 2 | SLE_SCAR | 0 | 2 | 0 |
| 3 | SLE_SCAR | 0 | 3 | 0 |

The next_idx of the first head tuple (qid = 0) was incremented by four. The index of sca_idx (key to the LSFSCA) is 1.
After allocating the next five tuples of LSFSCA relation

| qid | appl_cls | seq_key | next_idx | last_key |
|---|---|---|---|---|
| 0 | SLE_SCAR | 0 | 8 | 0 |
| 1 | SLE_SCAR | 0 | 9 | 0 |
| 2 | SLE_SCAR | 0 | 6 | 0 |
| 3 | SLE_SCAR | 0 | 7 | 0 |

Now, there will be 6 LSFSCA tuples whose key ranges are {0 through 5}.
Note that the next index to be assigned is 6 which is the next_idx value of the third head tuple (qid = 2).
Also note that the next_idx was incremented by 4 (number of queues) every time a new key is assigned.
2. After assigning 104 tuples, without deletion, the head tuples will look like this:

| qid | appl_cls | seq_key | next_idx | last_key |
|---|---|---|---|---|
| 0 | SLE_SCAR | 0 | 104 | 0 |

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| qid | appl_cls | seq_key | next_idx | last_key |
|---|---|---|---|---|
| 1 | SLE_SCAR | 0 | 105 | 0 |
| 2 | SLE_SCAR | 0 | 106 | 0 |
| 3 | SLE_SCAR | 0 | 107 | 0 |

3. When a tuple in LSFSCA whose key is 29 (sca_idx = 29) is removed,

| qid | appl_cls | seq_key | next_idx | last_key |
|---|---|---|---|---|
| 0 | SLE_SCAR | 0 | 104 | 1 |
| 1 | SLE_SCAR | 0 | 105 | 0 |
| 2 | SLE_SCAR | 0 | 106 | 0 |
| 3 | SLE_SCAR | 0 | 107 | 0 |
| 0 | SLE_SCAR | 1 | 29 | 0 |

The first head tuple (qid = 0) indicates that there is one deleted tuple (last_key = 1) and the next index to be assigned will be 29 instead of 104. Note that the index to the first free tuple is 1 (last_key) and this value also indicates the number of free tuples.

3. After removing 6 tuples in LSFSCA whose keys are 35, 6, 19, 21, 47, 17 in order:

| qid | appl_cls | seq_key | next_idx | last_key |
|---|---|---|---|---|
| 0 | SLE_SCAR | 0 | 104 | 2 |
| 1 | SLE_SCAR | 0 | 105 | 2 |
| 2 | SLE_SCAR | 0 | 106 | 2 |
| 3 | SLE_SCAR | 0 | 107 | 1 |
| 0 | SLE_SCAR | 1 | 29 | 0 |
| 0 | SLE_SCAR | 2 | 21 | 0 |
| 1 | SLE_SCAR | 1 | 35 | 0 |
| 1 | SLE_SCAR | 2 | 47 | 0 |

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```
|  2    | SLE_SCAR |    1    |     6    |      0   |
-----------------------------------------------------
|  2    | SLE_SCAR |    2    |    17    |      0   |
-----------------------------------------------------
-----------------------------------------------------
|  3    | SLE_SCAR |    1    |    19    |      0   |
-----------------------------------------------------
```

**Attribute:**
qid
**Fullname:**
Queue ID
**Attribute Description:**
This is a queue id to handle concurrency issues.

**Attribute:**
appl_cls
**Fullname:**
Application Class
**Attribute Description:**
This field is used to maintain a unique linked structure per application class.

**Attribute:**
seq_key
**Fullname:**
Sequential Key
**Attribute Description:**
This is a logical key of the SMSEQIDX

**Attribute:**
next_idx
**Fullname:**
Next application tuple index
**Attribute Description:**
This is the index to be assigned to application.

**Attribute:**
last_key
**Fullname:**
Last Key of the SMSEQIDX tuple used
**Attribute Description:**
This is the key to the last tuple used to store the index of the deleted application tuple.

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# SNCREF

## 1. Description

System Network Clock Reference

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 18 |
| expected tuples in relation | 15 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | SWMTC |
| relation type | DBSTATIC |
| density | 27 |
| trigger function | SMnctrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| cluster | 2 |

## 3. Field Layout

```
SNCREF      relid = 239   DBSTATIC   DBACC_CIND  DBPRAM    LP      SWMTC
     ref_par     DMSHORT      (short)
     ncrefunit   DMDBSMNCREF  (enum)     <--- key
     sm_num      DMMODULE     (ushort: 8)
     dltu_num    DMUNITNO     (ushort: 7)
     dfi_num     DMUNS5       (ushort: 5)
 (a) eqstat      DMEQSTAT     (enum: 3)
 (b) side        DMSIDE       (enum: 1)     <--- key
 (c) fmt_ref     DMSMFMTREF   (enum: 3)
 (d) iia_normal  DMSTATUS     (enum: 2)
 (e) ref_type    DMSMREFTYP   (enum: 2)
        User, Compacted and Stored Tuple Layout SNCREF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |               |               |
 0 |            ref_par            |   ncrefunit   |     sm_num    |
   |---------------+---------------+---------------+---------------|
   |             |         |     | |     |   |   |                 |
 4 |   dltu_num  | dfi_num |  a  |b|  c  | d | e |*****************|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
```

## 4. Population Rules for RLsncref

**Relation Description**
Network Clock (NCLK) Reference States.

This relation describes the equipage and interrupt states of the NCLK references. There is one tuple for each equipped NCLK reference.

The network clock type as defined by the nc_type attribute of RLscore determines the number and types of references that a network clock can have.

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**Attribute: ncrefunit**

**Fullname:** NCLK Reference Unit Type

**Attribute Description** This attribute defines the type of NCLK reference described by a tuple. A NCLK1 reference may either be a cross-reference to the other NCLK, a primary T1 reference and a secondary T1 reference. This relation has 2 tuples for each type of NCLK reference, one for each system side. This attribute is used as part of the key to this relation along with the side attribute as described.

The domain of this attribute is an unsigned character. This attribute may assume one of the following values for NCLK1:

SM5XC - - Cross reference

SM5TIP - - Primary T1 reference

SM5TIS - - Secondary T1 reference

Two tuples should have ncrefunit populated as SM5XC, two more as SM5TIP, and the remaining two with SM5TIS.
If the office is equipped with a NCLK2 then the relation should be populated for each equipped reference as follows:

```
Two tuples for each--
     SM5XC2     -     Cross couple for NCLK2
     SM5REF1    -     Reference 1
     SM5REF2    -     Reference 2
     ...
     SM5REF8    -     Reference 8
```

NCLK2 will ALWAYS have the SM5XC2 tuple populated, and any of the reference tuples as required per office. If the clock type is stand alone, then ONLY the tuples for SM5XC2 will be populated. In a 24-channel office there may be a maximum of two digital and one analog reference equipped, for a total of 3 references:

```
     If there are no analog references, then the digital
     references should be numbered from SM5REF1 to SM5REF2.
     If there is one analog, then it must be numbered
     SM5REF1, and the digitals may go SM5REF2 to SM5REF3.
     There are three references per sync pack (TN1274)
     one analog and two digital, yielding this numbering
     scheme.
```

In a 30-channel office, there are a maximum of eight references: two analog and six digital. However, on the TN1275 there are five inputs for references, but only four may be used.

```
     If no analog references are used, then the digital
     may be numbered SM5REF1-SM5REF8.  If one analog
     reference is used, then it must be numbered
     SM5REF1 and the digitals may go from SM5REF2-SM5REF8.
     If two analog references are used, they should be
     numbered SM5REF1 and SM5REF5.  The digitals in this
     case may be SM5REF2-SM5REF4 and SM5REF6-SM5REF8.
```

In a 30-channel communication module model 2 compact (CM2C) office, there are a maximum of four references: one analog and three digital. However, on the TN1275 there are five inputs for references, but only four may be used.

```
    If no analog references are used, then the digital may
```

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```
be numbered SM5REF1-SM5REF4.  If one analog reference is
used, then it must be numbered SM5REF1 and the digitals
may go from SM5REF2-SM5REF4.
```

**Attribute: side**

**Fullname:** System side

**Attribute Description** This attribute specifies the system side to which the NCLK that owns this reference belongs. This attribute is used as part of the key to this relation along with the ncrefunit attribute described.

The domain of this attribute is BFSIDE, or 1 bit. The enumeration (DMSIDE) values that this attribute may assume are:

SM5SIDE0 - - The reference belongs to a NCLK on system side 0

SM5SIDE1 - - The reference belongs to a NCLK on system side 1

This attribute should be populated as indicated.

**Attribute: iia_normal**

**Fullname:** Interrupt Inhibit/Allow Normal

**Attribute Description** This attribute describes the normal state of interrupts from a NCLK reference. That is, whether interrupts should be allowed or inhibited when the office network timing complex (ONTC) is operating normally.

The domain of this attribute is BFSTATUS, or 1 bit. The enumeration (DMSTATUS) values that may assumed by this attribute are:

SMALLOW - - Interrupts should be allowed if the ONTC is operating normally.

SMINHIBIT - - Interrupts should be inhibited even if the ONTC is operating normally.

This attribute should be populated with SMALLOW for tuples for equipped references, for example, eqstat attribute (described in the following) is set to SMOPER. For other tuples, this attribute should be set with SMINHIBIT.

**Attribute: eqstat**

**Fullname:** Equipage State

**Attribute Description** This attribute describes the equipage state of the NCLK reference represented by each tuple.

The domain of this attribute is BFEQSTAT or three bits. The enumeration (DMEQSTAT) values that this attribute can assume are:

SMOPER - - If the reference described by a tuple is operational.

SMGROW - - If the reference described by a tuple is being grown.

SMUNEQ - - If the reference described by a tuple is unequipped.

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**Attribute: ref_type**

**Fullname:** Reference Type

**Attribute Description** Assign each equipped NCLK2 reference tuple with the type of trunk used. The clock type referred to may be found in RLscore.nc_type.

SMDS1REF - - 24 channel domestic T1 trunks. Clock type must be SM5DS1 or SM24NC2.

SM30REF - - 30 channel international. Clock type must be SM530CHAN or SM30NC2.

SMANALREF - - Analog reference, for example, Bell System Reference Frequency. The clock type may be either SM24NC2 or SM30NC2.

Default value (in a NCLK1 office): SMDS1REF

**Attribute: ref_par**

**Fullname:** Reference Parameter

**Attribute Description** This parameter specifies the 'weighting' or 'priority' for each reference in a NCLK2. For 5E2(2) offices (always Hierarchical in RLscore 'sync_type')

```
The highest stability or 'most preferred' reference
should have a reference parameter of 1.  The next 'most
preferred' reference should have a parameter of 2, and
so on for all equipped references.  For each reference
this parameter should be the same on each side of
the clock.
```

Even though the numbers do not have to be sequential they must be unique for each reference.

Default value (in a NCLK1 office): 0

**Attribute: fmt_ref**

**Fullname:** Reference Signal Format

**Attribute Description** Assign the reference signal format to this attribute for each equipped NCLK2 reference tuple:

```
30-channel AMI Format          AMI
30-channel HDB3 Format         HDB3
24-channel D4-No ZCS Format    D4WOZ
24-channel D4-B8ZS Format      D4B8
24-channel D4-ZCS Format       D4WZC
24-channel Fe-No ZCS Format    FEWOZ
24-channel Fe-B8ZS Format      FEB8
24-channel Fe-ZCS Format       FEWZC
```

If the ref_type is SMDS1REF and the network clock is a model 1 DS1 24-channel clock (SM5DS1) or a Stand-alone clock (SM5STDALNE), the format should be one of the D4 (superframe) 24-channel types.

If the ref_type is SMDS1REF and the network clock is a model 2 DS1 24-channel clock (SM24NC2) or a stand-alone clock (SMSANC2), the format should be one of either the D4 (superframe) or FE (extended superframe) 24-channel types.

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If ref_type is SM30REF, the format should be one of the 30-channel types.

**Attribute: sm_num**

**Fullname:** Switching module (SM) Number

**Attribute Description** This attribute is only populated with a value if the clock type (RLscore.nc_type) is SM30CHAN2 for a 30 channel NCLK2. The information here is for the location of the reference source from the ANN8 circuit pack located in the digital facility interface (DFI). This location may be uniquely identified by the SM number, digital line trunk unit (DLTU) number, and the DFI number of the specific ANN8 serving as the source for each reference.

**Attribute: dltu_num**

**Fullname:** Digital Line Trunk Unit Number

**Attribute Description** This attribute is only populated with a value if the clock type (RLscore.nc_type) is SM30CHAN2 for a 30 channel NCLK2. The information here is for the location of the reference source from the ANN8 circuit pack located in the DFI. This location may be uniquely identified by the SM number, DLTU number, and the DFI number of the specific ANN8 serving as the source for each reference.

**Attribute: dfi_num**

**Fullname:** Digital Facility Interface Number

**Attribute Description** This attribute is only populated with a value if the clock type (RLscore.nc_type) is SM30CHAN2 for a 30 channel NCLK2. The information here is for the location of the reference source from the ANN8 circuit pack located in the DFI. This location may be uniquely identified by the SM number, DLTU number, and the DFI number of the specific ANN8 serving as the source for each reference.

**Defines:**
"db/DMclidef.h"

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# SPABILLDN

## 1. Description

This relation contains the special access customer information for each of the customer's trunk groups.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| expected tuples in relation | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| corcable | DBNO |

## 3. Field Layout

```
SPABILLDN   relid = 1167  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     grpnum      DMGRPNUM     (ushort)     <--- key
 (a) ans_supv    DMBOOL       (enum: 1)
     dn_bill     DMDN_BILL    (array [ 10 ] of char )
         User, Compacted and Stored Tuple Layout  SPABILLDN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               | |             |               |
  0 |             grpnum            |a|*************|    dn_bill    |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                           dn_bill                             |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                           dn_bill                             |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                 |                                             |
 12 |    dn_bill      |*********************************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLspabilldn

**Relation Description**
Special Access Customer Trunk Group and Billing Directory Number Information.

This relation is used in conjunction with Special Access WATS and *MEGACOM*® calls. In this relation, billing and trunk group information is stored for each special access trunk group.

**Attribute: grpnum**

**Fullname:** Trunk Group Number

**Attribute Description** Key.

**Attribute: ans_supv**

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**Fullname:** Answer Supervision

**Attribute Description** This attribute indicates if answer supervision should or should not be returned on a trunk group basis.

**Attribute: dn_bill**

**Fullname:** Special Access Customer Billing Directory Number

**Attribute Description** The customer billing directory based on a customer's trunk group number.

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# SPABNDSCRN

## 1. Description

This relation will tell the service band number of two NPAs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |

## 3. Field Layout

```
SPABNDSCRN  relid = 1166  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     npa1        DMBINNPA     (ushort: 10)     <--- key
 (a) srvcband    DMSRVCBAND   (ushort: 4)
     npa2        DMBINNPA     (ushort: 10)     <--- key
         User, Compacted and Stored Tuple Layout SPABNDSCRN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                     |       |   |                     |           |
  0 |        npa1         |   a   |***|        npa2         |***********|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLspabndscrn

**Relation Description**
Special Access Band Screening.

Given two NPAs, this relation will return the appropriate service band number.

This relation is used in conjunction with Special Access WATS and *MEGACOM*® calls. In this relation, each served NPA of a toll switch is mapped to all NPAs in the North American Numbering Plan to give the service band number of two NPA's.

**Attribute: npa1**

**Fullname:** Numbering Plan Area 1 (Area Code)

**Attribute Description** Key.

**Attribute: npa2**

**Fullname:** Numbering Plan Area 2 (Area Code)

**Attribute Description** Key.

**Attribute: srvcband**

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**Fullname:** Service Band Number

**Attribute Description** The service band number of two NPAs.

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# SPAENXX

## 1. Description

This relation will tell what NXXs are exempt from an NPA. These NXXs are not dialable by a special access WATS or *MEGACOM*® customer.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 300 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |

## 3. Field Layout

```
SPAENXX     relid = 1168  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     npa          DMBINNPA     (ushort: 10)  <--- key
     nxx          DMINXX       (ushort: 10)  <--- key
         User, Compacted and Stored Tuple Layout    SPAENXX
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |           |                   |           |
  0 |        npa        |***********|        nxx        |***********|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLspaenxx

**Relation Description**
Special access exempt NXXs.

List of NXXs in an NPA that are non-dialable by a special access customer. This relation is used in conjunction with special access WATS and *MEGACOM*® calls. This relation will contain all NXXs of an NPA that are non-dialable by a special access customer. These NXXs are typically not part of the north American numbering plan (NANP).

**Attribute: npa**

**Fullname:** Numbering plan area (Area Code)

**Attribute Description** Key The office code of an NPA that is non-dialable by a special access customer.

**Attribute: nxx**

**Fullname:** Office Code

**Attribute Description** Key

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# SPC

## 1. Description

Peripheral Controller (PC) information.
This relation describes the characteristics of the peripheral controllers with which the office is equipped.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | SWMTC |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |
| ks key store | AUTO |
| trigger function | SMpctrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
SPC         relid = 236   DBSTATIC   DBACC_CIND  DBPRAM    LP      SWMTC
     pcfilenm    DMUCHR14     (array [ 14 ] of unsigned char )
     type        DMPCTYPE     (enum)
     phys_id     DMUNS7       (ushort: 7)     <--- key
 (a) ms_side     DMSIDE       (enum: 1)     <--- key
 (b) grweqstat   DMEQSTAT     (enum: 3)
 (c) eqstat      DMEQSTAT     (enum: 3)
 (d) iia_normal  DMSTATUS     (enum: 2)
 (e) mib_bus     DMMIBTYPE    (enum: 1)
     cli         DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout    SPC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                            pcfilenm                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                            pcfilenm                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                            pcfilenm                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |               |             | |
 12 |            pcfilenm           |      type     |   phys_id   |a|
    |---------------+---------------+---------------+---------------|
    |     |     |   | |                                           |
 16 |  b  |  c  | d |e|*******************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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```
 20 |                              cli                                |
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population Rules for RLspc

**Relation Description**
RLspc describes the characteristics of the peripheral controllers with which the office is equipped.

There are five types of PCs, namely, the Foundation Peripheral Controller (FPC), the Pump Peripheral Controller (PPC), the Module Message Processor (MMP), the Communication Module Processor (CMP), and the Quad Link Gateway Processor (QGP). There is one tuple in this relation for each equipped PC.

Population rules are expressed as a function of the vintage of the Communication Module, either CM1 or CM2, per message switch side. CM1 or CM2 vintage for sides 0 and 1 is expressed by the value of the corresponding global parameter Glcm0vint or Glcm1vint respectively. These parameters are populated from the CM vintage enumerated data type (DMCMVINT) with the value SMCM1VINT or SMCM2VINT.

Relation Dependencies:

The official term for Full or Quad (4 MMPs) is Dual MMPs. The official term for Half (2 MMPs) is Single MMPs. The terms Dual and Single are used in most customer documentation for these MMP configurations. Starting in 5E6, the CM2 office data will allow a Single MMP, a Dual MMP or a combination of both Single and Dual (that is, some SMs can be connected to 2 MMPs and others to 4 MMPs in the same office) equipage options. For generics prior to 5E6, the CM2 office data will allow only the Single MMP equipage option.

For each SM in a CM1 office or a CM2 office with a full MMP equipage, there must be 4 tuples in RLspc. The four tuples must represent operational MMPs. In a CM2 office with a half MMP equipage option, there must be two tuples that represent operational MMPs.

Note that the terms half MMP equipage and full MMP equipage are precursors of the terms single MMP equipage and dual MMP equipage, respectively. Unfortunately, the population rules for CM relations had to be written (and they were) before the latter pair of terms were coined and/or widely accepted. In any case, half MMP equipage and single MMP equipage both mean two MMPs per logical device group. That is, only the alpha (even) MMP on system side 0 and the beta (odd) MMP on system side 1 are equipped in each logical device group. On the other hand, full MMP equipage and dual MMP equipage both mean four MMPs per logical device group.

For each RLspc tuple that represents an operational MMP, there must be at least one tuple in RLssdlc that represents an operational SDLC/XPC (one to many). Conversely, for each RLssdlc tuple, there must be one RLspc tuple (many to one).
In CM2 offices, a new peripheral processor is being added as part of the *5ESS*®-2000 switch project. The processor is called a Quad Link Gateway Processor (QGP). It connects to the Quad-Link Packet Switch (QLPS) which is being added to the Switch to provide a high bandwidth message transport for the SM-2000s. The QGP provides the interface between the QLPS and existing processors, such as existing SMs, AMs, etc.
For release 1 of the *5ESS*®-2000 switch, there may be 0, 2, or 4 QGPs in an office.

**Attribute: phys_id**

> **Fullname:** the physical identification of a PC
>
> **Attribute Description** A PC's physical identification is composed of three physical properties, namely, the IOMI to which the PC belongs, the PC community to which the PC belongs, and finally, the position of the PC's packs in the community. This attribute is used as the key to this relation along with the ms_side attribute which is described here. The physical identification of a PC is a 6-bit value, say iiccpp, where:

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ii - is the Input/Output Microprocessor Interface (IOMI) used by the PC community to which a PC belongs. For a CM1 office, the valid values for this field are 0 and 1 only. For a CM2 office, the valid values are 0 to 3.

cc - is the PC community to which a PC belongs. The valid values are 0 to 3.

pp - is the identification of the PC within its community. The valid values are 0 to 3.

As stated earlier, the domain of phys_id is an unsigned bit field that is 6 bits wide. This attribute can assume the values 0, 4, 5, 6, 8 through 31, and 40 through 63. The values 4 and 5 are the physical identifiers for the PPC and FPC, respectively: values 0 and 6 are for CMPs in CM2 and CM1 respectively. The remaining values are for MMPs. MMP physical identifiers 32 through 35 are not used because those MMPs would have been assigned a set of CTS numbers that would include CTS number 0. CTS number 0 can not be used. Thus, to simplify matters, MMPs 32 - 35, which would belong to a beta community and MMPs 36 - 39, which would be the matching alpha community, are not used. Instead, MMPs 56 - 63 are used. Values 32 and 33, which are not used for MMPs, are used for the QGP.
RLspc must contain tuples for MMP 8 and MMP 12. Tuples must also exist in RLspc for FPC 5 on MSGS side 0 and on MSGS side 1.
If a PC is a PPC, this attribute should be populated with 4. If a PC is a FPC, this attribute should be populated with 5. For an MMP, populate this attribute according to the chart:

| Logical PC IOMI Number | MMP's Position Community Number | MMP in its Community | MMP phys id | MMP log id | Logical PC IOMI Number | MMP's Position Community Number | MMP in its Community | MMP phys id | MMP log id |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 2 | 0 | 8 | 0 | 2 | 10 | 0 | 40 | 25 |
| 0 | 2 | 1 | 9 | 2 | 2 | 10 | 1 | 41 | 27 |
| 0 | 2 | 2 | 10 | 4 | 2 | 10 | 2 | 42 | 29 |
| 0 | 2 | 3 | 11 | 6 | 2 | 10 | 3 | 43 | 31 |
| 0 | 3 | 0 | 12 | 1 | 2 | 11 | 0 | 44 | 24 |
| 0 | 3 | 1 | 13 | 3 | 2 | 11 | 1 | 45 | 26 |
| 0 | 3 | 2 | 14 | 5 | 2 | 11 | 2 | 46 | 28 |
| 0 | 3 | 3 | 15 | 7 | 2 | 11 | 3 | 47 | 30 |
| 1 | 4 | 0 | 16 | 8 | 3 | 12 | 0 | 48 | 33 |
| 1 | 4 | 1 | 17 | 10 | 3 | 12 | 1 | 49 | 35 |
| 1 | 4 | 2 | 18 | 12 | 3 | 12 | 2 | 50 | 37 |
| 1 | 4 | 3 | 19 | 14 | 3 | 12 | 3 | 51 | 39 |
| 1 | 5 | 0 | 20 | 9 | 3 | 13 | 0 | 52 | 32 |
| 1 | 5 | 1 | 21 | 11 | 3 | 13 | 1 | 53 | 34 |
| 1 | 5 | 2 | 22 | 13 | 3 | 13 | 2 | 54 | 36 |
| 1 | 5 | 3 | 23 | 15 | 3 | 13 | 3 | 55 | 38 |
| 1 | 6 | 0 | 24 | 16 | 3 | 14 | 0 | 56 | 41 |
| 1 | 6 | 1 | 25 | 18 | 3 | 14 | 1 | 57 | 43 |
| 1 | 6 | 2 | 26 | 20 | 3 | 14 | 2 | 58 | 45 |
| 1 | 6 | 3 | 27 | 22 | 3 | 14 | 3 | 59 | 47 |
| 1 | 7 | 0 | 28 | 17 | 3 | 15 | 0 | 60 | 40 |
| 1 | 7 | 1 | 29 | 19 | 3 | 15 | 1 | 61 | 42 |
| 1 | 7 | 2 | 30 | 21 | 3 | 15 | 2 | 62 | 44 |
| 1 | 7 | 3 | 31 | 23 | 3 | 15 | 3 | 63 | 46 |

For a CMP, populate this attribute according to this chart:

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```
        Logical
         PC      CMP's
         Commu-  Position   CMP   CMP
IOMI     nity    in its     phys  log
Number   Number  Community  id    id
______   ______  _________  ____  ___
  0        0        0        0     0
  0        1        2        6     0
For a Quad Link Gateway Processor (QGP), populate this attribute
as follows:
```

(The QGP is equipped at IOMI 2, PC community 0 within that IOMI and positions 0 and 1 in that community. This equipage equates to a logical PC position of 8.)

```
                Logical          QGP's
                PC               Position         QGP
IOMI            Community        in its           phys
Number          Number           Community        id
------          ---------        ---------        ----
  2                 8                0             32
  2                 8                1             33
```

The first 2 QGPs assigned in the office should be populated with 32 on MSGS side 0 and 32 on MSGS side 1. If 4 QGPs are assigned in the office, then 32 and 33 will both be used on each MSGS side.

**Attribute: ms_side**

**Fullname:** Specifies the system side of the Message Switch (MSGS) to which the PC belongs

**Attribute Description** The domain of this attribute is BFSIDE, or 1 bit. The following are the enumeration values (DMSIDE) that can be assigned to ms_side.

```
SM5SIDE0 - the PC is on MSGS system side 0
SM5SIDE1 - the PC is on MSGS system side 1
```

Assign the enumeration value SM5SIDE0 to this attribute on tuples that are for PCs on MSGS system side 0, and assign SM5SIDE1 to attribute on tuples that are for PCs on MSGS system side 1.

**Attribute: type**

**Fullname:** PC Type

**Attribute Description** This attribute specifies whether a PC is a FPC, PPC, MMP, CMP, or QGP.

The domain of this attribute is an unsigned character. The following are the valid enumeration (DMPCTYPE) values that this attribute may assume:

```
SM5FPC - the PC is a FPC
SM5PPC - the PC is a PPC
SM5MMP - the PC is a MMP
SM5PIP - the PC is a CMP
SM5QGP - the PC is a QGP
```

Populate this attribute depending on the type of PC as indicated here.

**Attribute: pcfilenm**

**Fullname:** The file name of the RAM code with which a PC is pumped.

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**Attribute Description** This attribute is a 14-character string that specifies the file name of the RAM code with which a PC is pumped. The file is located in the /no5text/prc directory in the AM.

For the FPC, PPC, and MMP, this attribute may assume character string values of the form pppCMnvvvvvvvv where:

ppp - FPC, PPC, MMP, or CMP depending upon the type of the PC that owns the code.

n - 1 if the system side is of CM1 vintage, or 2 if the system side is of CM2 vintage.

vvvvvv is a numeric string that indicates the version number of the RAM code.
For the QGP, this attribute must be the character string "QGPCM2OPER.out".
This attribute should be populated as follows for a CM1 office:

| PC type | value |
|---|---|
| FPC | FPCCM100000000 |
| PPC | PPCCM100000000 |
| MMP | MMPCM100000000 |
| CMP | CMPCM100000000 |

This attribute should be populated as follows for a CM2 office:

| PC type | value |
|---|---|
| FPC | FPCCM200000000 |
| PPC | PPCCM200000000 |
| MMP | MMPCM200000000 |
| CMP | CMPCM200000000 |
| QGP | QGPCM2OPER.out |

**Attribute: mib_bus**

**Fullname:** The MIB type used by the community to which a PC belongs.

**Attribute Description** This attribute specifies the MIB type used by the community to which a PC belongs. That is, whether the community is alpha or beta. Alpha communities are assigned even TMS CTS, whereas beta communities are assigned odd TMS CTS.

The domain of this attribute is BFMIBTYPE or 1 bit. The enumeration (DMMIBTYPE) values that this attribute can assume are:

```
SMALPHA   - for alpha communities
SMBETA    - for beta communities
```

The following chart gives the population rule for this attribute:

| PC phys_ids for which mib_bus is SMALPHA | PC phys_ids for which mib_bus is SMBETA |
|---|---|
| 0 | 4, 5, 6 |
| 8 - 11 | 12 - 15 |
| 16 - 19 | 20 - 23 |
| 24 - 27 | 28 - 31 |
| 44 - 47 | 40 - 43 |
| 52 - 55 | 48 - 51 |
| 60 - 63 | 56 - 59 |

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For QGP's (phys_id 32 and 33), use SMALPHA.

**Attribute: grweqstat**

**Fullname:** The equipage state of the MMP growth board.

**Attribute Description** This attribute describe the equipage state of the MMP growth board. Thus, this attribute is used only on MMP tuples, and then only for CM1 MMPs. Recall that a CM1 MMP, or MMP1, is initially equipped with 4 SDLCs. To equip it with 4 more, a 2nd TN858, also known as the growth board, is needed.
The domain of this attribute is BFEQSTAT, or 3 bits. The enumeration (DMEQSTAT) values that this attribute may assume are:

SMUNEQ - indicates that the PC described by the tuple is not equipped with the growth board.

SMGROW - indicates that the MMP described by the tuple is in the process of being equipped with the growth board.

SMOPER - indicates that the MMP described by the tuple is equipped with a growth board.

This attribute should be populated with SMUNEQ for tuples for the PPC, FPC, CMP, QGPs and CM2 MMPs. For a CM1 MMP, if it is equipped with only 4 SDLCs, that is, linked to only 4 or less SMs, This attribute should be populated with SMUNEQ also. For a CM1 MMP that is equipped with 8 SDLCs, this attribute should be populated with SMOPER.

**Attribute: iia_normal**

**Fullname:** Indicates the normal state of the interrupts of the PC.

**Attribute Description** This attribute indicates the normal state of the interrupts of the PC described by this tuple. That is, whether the interrupts should be allowed or inhibited when the PC is operating normally.
The domain of this attribute is BFSTATUS, or 1 bit. The enumeration (DMSTATUS) values that this attribute may assume are:

SMALLOW - interrupts should be allowed if the PC is operating normally

SMINHIBIT - interrupts should be inhibited even if the PC is operating normally

**Attribute: eqstat**

**Fullname:** The equipage status of the PC.

**Attribute Description** The domain of eqstat is BFEQSTAT, or 3 bits. The enumeration (DMEQSTAT) values that eqstat may assume are the following:

SMOPER - indicates that the PC is equipped

SMGROW - indicates that the PC is in growth

**Attribute: cli**

**Fullname:** The hardware version of the PC.

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**Attribute Description**

| Circuit Type | MSGS Vintage | CLI Bit Value | Description |
|---|---|---|---|
| SM5FPC | CM2 | 0x00 [DGVNULL] | [J5D020AB-1, L1A] |
| SM5FPC | CM2 | 0x04 [DGVFPC_CMP] | CMP grown through 5E5 to 5E6 generic retrofit procedures. [J5D020AB-1, L1A] |
| SM5PPC | CM2 | 0x00 [DGVNULL] | [J5D020AB-1, L1A] |
| SM5MMP | CM2 | 0x00 [DGVNULL] | [J5D020AC-1, L1A or L2A or L4A] |
| SM5PIP | CM2 | 0x00 [DGVNULL] | [J5D020AF-1, L1 or L2A or L3] |
| SM5PIP | CM2 | 0x01 [DGVCMPEM] | [J5D020AF-1, L1 or L2A or L3] |
| SM5FPC | CM1 | 0x00 [DGVNULL] | [J5D006AD-1, L7] |
| SM5FPC | CM1 | 0x04 [DGVFPC_CMP] | CMP grown through 5E5 to 5E6 generic retrofit procedures. [J5D006AD-1, L7] |
| SM5PPC | CM1 | 0x00 [DGVNULL] | [J5D006AD-1, L7] |
| SM5MMP | CM1 | 0x00 [DGVNULL] | [J5D006AD-1, L6 or L3] |
| SM5PIP | CM1 | 0x01 [DGVCMPEM] | [J5D020AF-1, L1 or L2A or L3] |
| SM5PIP | CM1 | 0x02 [DGVCM1CMPEM] | [J5D006AD-1, L8D] |
| SM5PIP | CM1 | 0x00 [DGVNULL] | [J5D006AD-1, L8] |
| SM5QGP | CM2 | 0x00 [DGVNULL] | [J5D020AF] |

NOTE 1: The following CLI must be "OR"ed with the CLI value associated with the other hardware equipped.

| | | | |
|---|---|---|---|
| | CM2 | 0x400 [DGAPRCM2] | SN516B C/D with APR (Auto Power Recovery). CLI for CM2(C) only. APR only available in CM2(C). Backwards compatible with SN516. [J5D020A-1, L46B,L50,L51] [J5D020A-2, L1H] |

NOTE 2: When an office has APR (Auto Power Recovery) all CM2(C) unit/circuit CLI's "have" to have the APR bit(s) set. This includes all PC cli's and the MI, NC2, and TMS cli's (see RLscore).

**Defines:**
"db/DMclidef.h"

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# SPID

## 1. Description

This relation provides the Service Profile IDentifier (SPID) to logical port mapping and User Service Order Profile (USOP) parameters. The key to this relation is the USPID.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16382 |
| expected number of tuples | 160 |
| density | 79 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | TMtrspid |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
SPID        relid = 1132  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     uspid       DMUSPID      (struct)     <--- key
         digcnt      DMDCNT18     (uchar: 5)
         dig1        DMBCD        (ushort: 4)
         dig2        DMBCD        (ushort: 4)
         dig3        DMBCD        (ushort: 4)
         dig4        DMBCD        (ushort: 4)
         dig5        DMBCD        (ushort: 4)
         dig6        DMBCD        (ushort: 4)
         dig7        DMBCD        (ushort: 4)
         dig8        DMBCD        (ushort: 4)
         dig9        DMBCD        (ushort: 4)
         dig10       DMBCD        (ushort: 4)
         dig11       DMBCD        (ushort: 4)
         dig12       DMBCD        (ushort: 4)
         dig13       DMBCD        (ushort: 4)
         dig14       DMBCD        (ushort: 4)
         dig15       DMBCD        (ushort: 4)
         dig16       DMBCD        (ushort: 4)
         dig17       DMBCD        (ushort: 4)
         dig18       DMBCD        (ushort: 4)
     dsl         DMPORT       (ushort)
     ckt_lport   DMLPORT      (ushort: 16)
     odp_lport   DMLPORT      (ushort: 16)
     ppd_lport   DMLPORT      (ushort: 16)
 (a) ppb1_usr    DMBOOL       (enum: 1)
 (b) ppb2_usr    DMBOOL       (enum: 1)
 (c) blk_call    DMBOOL       (enum: 1)
 (d) fip_req     DMBOOL       (enum: 1)
 (e) ddn         DMBOOL       (enum: 1)
 (f) pfixtei     DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout   SPID
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
```

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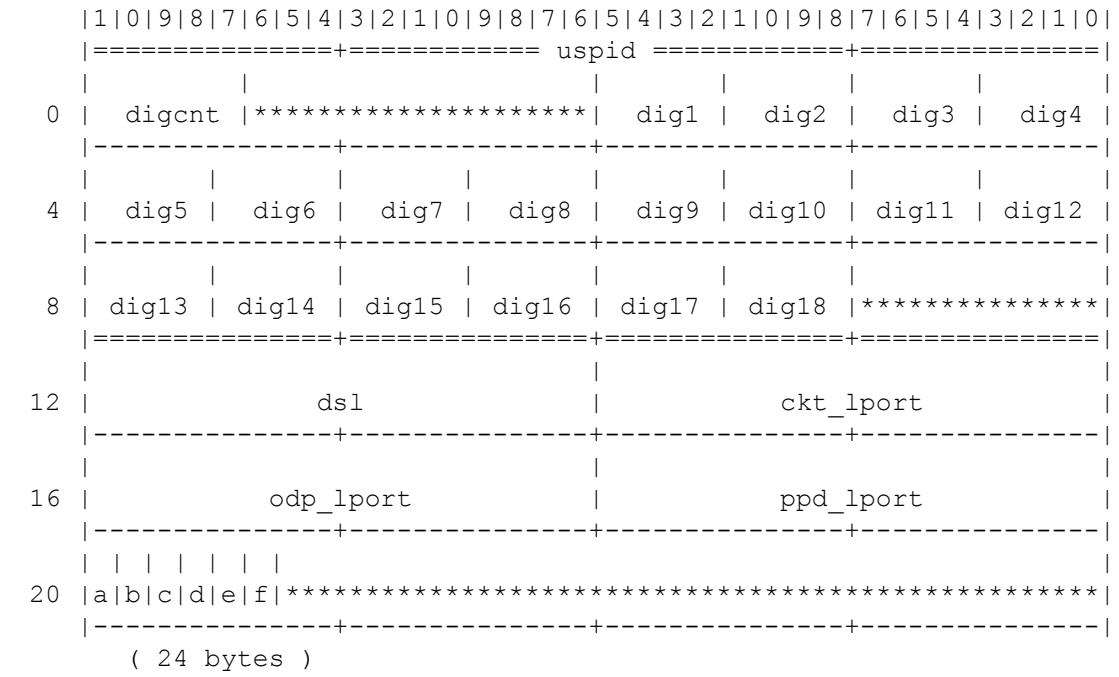


## 4. Population Rules for RLspid

**Relation Description**
User Service Profile IDentifier (USPID) to Logical PORT (LPORT) mapping relation.

This relation is used to equate an ISDN SPID with its corresponding LPORTs and User Service Order Profile (USOP) parameters. The user's SPID is the USPID consisting of the USPID digits that are externally entered by the Service Provider and a USPID digit count field that is internally generated by the switch. This digit count provides the count of the specified USPID digits.

**Attribute: uspid**

**Fullname:** User Service Profile Identifier

**Attribute Description** The USPID indicates the Service Provider assigned User Service Profile IDentifier.

For custom ISDN interface the USPID can be anywhere from 1 thru 10 digits. For standard ISDN interface the USPID can be anywhere from 1 thru 18 digits. The universal USPID value of 010101010101 is reserved and is not valid for this field. No duplicate USPID allowed in the *5ESS*®-2000 switch database. (the USPID digit count is generated internally, not specifically input).

New USPID = uspid.digcnt,uspid.dig1, uspid.dig2,...uspid.dig18.

Digits will be right justified when less than 18 are specified, that is, least significant digit stored in uspid.dig18. Unused digits = 0. Digits will be stored in BCD.

**Attribute: uspid.digcnt**

**Fullname:** The USPID digit count

**Attribute Description** Gives the digit count for the specified USPID digits

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**Attribute: uspid.dig[*]**

**Fullname:** Digit 1, Digit 2, .. ,Digit 17,Digit 18

**Attribute Description** Digits 1 thru 18 of USPID

**Attribute: dsl**

**Fullname:** The Digital Subscriber Loop (DSL) D channel PORT (DPORT)

**Attribute Description** This attribute is used to bind the SPID to a particular DSL's DPORT.

**Attribute: ckt_lport**

**Fullname:** Circuit (CKT) Logical PORT (LPORT)

**Attribute Description** The LPORT is a sequentially assigned number administered by recent change. For more information on the allocation of LPORTs, refer to the population rules for RLrc_lphol and RLrc_qidx. This LPORT is used to bind users with:

```
Circuit Switched Voice  (CSV)
Circuit Switched Data   (CSD)
Voice Band Data         (VBD)
```

capabilities to this USOP. An implied LPT_TYPE of LPT_ISDN applies to this LPORT.

**Attribute: odp_lport**

**Fullname:** On Demand Packet (ODP) Logical PORT (LPORT)

**Attribute Description** The LPORT is a sequentially assigned number administered by recent change. For more information on the allocation of LPORTs, refer to the population rules for RLrc_lphol and RLrc_qidx. This LPORT is used to bind an ODP user to this USOP. In 5E5, ODP is limited to ODP over the B channel. An implied LPT_TYPE of LPT_PKT applies to this LPORT.

**Attribute: ppd_lport**

**Fullname:** Permanent Packet D (PPD) Logical PORT (LPORT)

**Attribute Description** The LPORT is a sequentially assigned number administered by recent change. For more information on the allocation of LPORTs, refer to the population rules for RLrc_lphol and RLrc_qidx. This LPORT is used to bind a PPD user to this USOP. An implied LPT_TYPE of LPT_PKT applies to this LPORT.

**Attribute: ppb1_usr**

**Fullname:** Permanent Packet B1 (PPB) user

**Attribute Description** This attribute is used to indicate that this USOP has access to PPB on the B1 channel. This allows Recent Change the ability to move the PPB1 feature to another dsl with the user.

If a user has PPB1 (ppb1_usr = DBYES), then the user cannot be assigned ACSR.

If a user has this field set to DBYES and the user is moved to a different DSL, the PPB1 feature must be also moved to the new DSL except when:

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— The new DSL already has PPB1.

— The new DSL has users that are explicitly using the B1 channel.

When PPB1 is removed from the DSL, any user on the DSL that has the field set to DBYES must have the field changed to DBNO.

**Attribute: ppb2_usr**

**Fullname:** Permanent Packet B2 (PPB) user

**Attribute Description** This attribute is used to indicate that this USOP has access to PPB on the B2 channel. This allows Recent Change the ability to move the PPB2 feature to another dsl with the user.

If a user has PPB2 (ppb2_usr = DBYES), then the user cannot be assigned ACSR.

If a user has this field set to DBYES and the user is moved to a different DSL, the PPB2 feature must be also moved to the new DSL except when:

— The new DSL already has PPB2.

— The new DSL has users that are explicitly using the B2 channel.

When PPB2 is removed from the DSL, any user on the DSL that has the field set to DBYES must have the field changed to DBNO.

**Attribute: blk_call**

**Fullname:** Call Blocking indicator bit

**Attribute Description** This attribute is used to indicate that this USOP is in the process of an Automatic Customer Station Rearrangement (ACSR) move. Originating and terminating calls will be blocked for this USOP.

**Attribute: fip_req**

**Fullname:** Fully Initializing Protocol (FIP) terminal required

**Attribute Description** This attribute is used to indicate that this USOP can only be accessed by terminals that support FIPs. If any sub attribute in RLrc_spid.fipmap is set to DBYES, then a FIP terminal is required, and "fip_req" is set to DBYES. Otherwise, "fip_req" is set to DBNO, and any terminal may access this USOP.

See RLrc_spid.fipmap for the features that require a FIP terminal.

**Attribute: ddn**

**Fullname:** Default Directory Number

**Attribute Description** This attribute indicates if this user is a default DN user.

**Attribute: pfixtei**

**Fullname:** Fixed Terminal Endpoint Identifier (TEI)

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**Attribute Description** This attribute indicates if this user is a fixed TEI user.

**Defines:**
"db/DMport.h",
"db/DMportindx.h",
"db/DMparty.h"

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# SPN_G

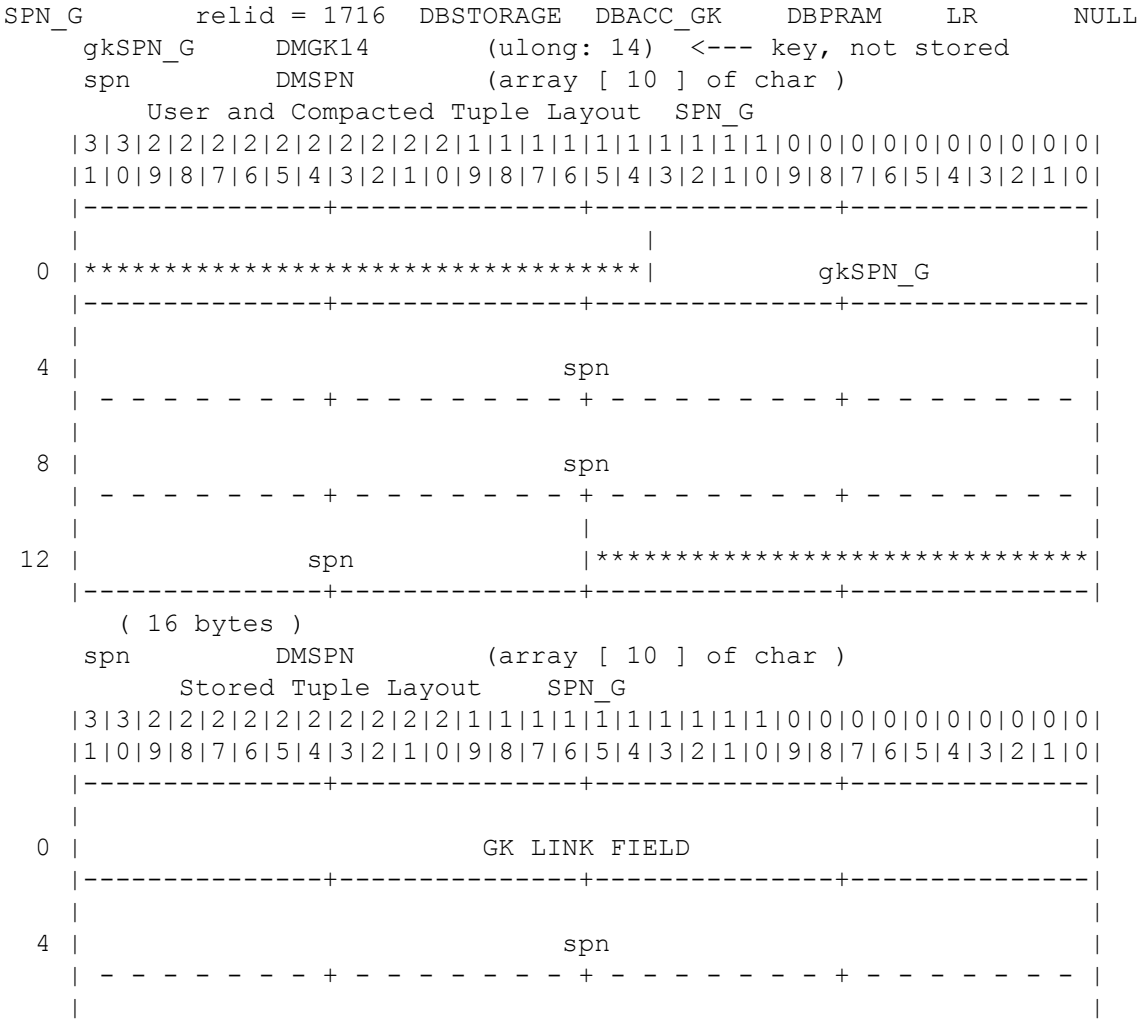
## 1. Description

Storage relation for SPN attribute.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected tuples | 50 |
| memory type | DBPRAM |
| access type | DBACC_GK |
| distribution | LR |
| relation type | DBSTORAGE |
| head page size | 1024 |
| data page size | 512 |
| page level | 2 |
| index length | 9 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel reverse index | rlSPN_I |

## 3. Field Layout

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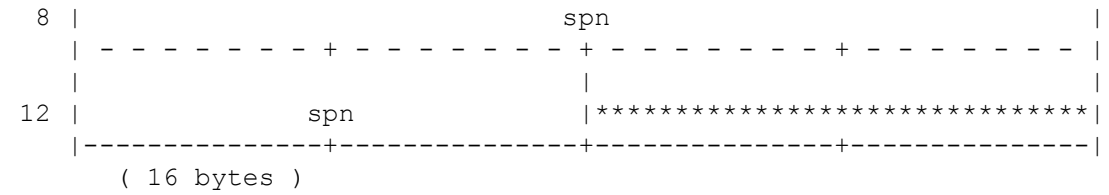


## 4. Population Rules for RLspn_g

There are no population rules for this relation.

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# SRCREF

## 1. Description

RCLK Reference Source

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 18 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |

## 3. Field Layout

```
SRCREF      relid = 590   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     ref_par     DMSHORT      (short)
     dfi_name    DMCIRCUIT    (ushort)
     rcrefunit   DMDBSMNCREF  (enum)     <--- key
 (a) fmt_ref     DMSMFMTREF   (enum: 3)
 (b) ref_type    DMSMREFTYP   (enum: 2)
 (c) side        DMSIDE       (enum: 1)     <--- key
 (d) ext_ref     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout SRCREF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            ref_par            |            dfi_name           |
    |---------------+---------------+---------------+---------------|
    |               |     |   | | |                                 |
  4 |   rcrefunit   |  a  | b |c|d|*********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLsrcref

**Relation Description:** Remote Clock Reference.

This relation describes the equipage states of the Remote Clock (RCLK) references (RCREFs). There is one tuple for each equipped RCLK reference. There should be exactly two Remote Clock (RCLK) references (RCREFs) equipped when a Remote Clock (RCLK) is installed at a site.

For the 5E8 generic a new attribute ext_ref was added to this relation (RLsrcref) in order to provide the ability to specify if RCLK reference is from external source or from HSM-RSM umbilical. The restriction that RCLK reference must come from HSM-RSM umbilical is no longer true.

**Attribute: rcrefunit**

**Fullname:** type of RCLK reference

**Attribute Description** This attribute defines the type of RCLK reference described by a tuple and

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is the key to this relation. This attribute should be populated as follows: 2 tuples for each--

```
SM5XC2 - Cross couple for RCLK
SM5REF1 - Reference 1
SM5REF2 - Reference 2
...
SM5REF8 - Reference 8
```

RCLK will ALWAYS have the SM5XC2 tuple populated, and any of the reference tuples as required per office. For 5E2_2, the maximum number of RCRFs is 2. The only allowed references are SM5REF1 and SM5REF2 and the SM5XC2.

**Attribute: side**

**Fullname:** RCLK SM side (0/1)

**Attribute Description** This attribute specifies the RCLK side to which the RCLK that owns this reference belongs. This attribute is used as part of the key to this relation along with the rcrefunit attribute as described.
The enumeration (DMSIDE) values that this attribute may assume are:

```
SM5SIDE0 - the reference belongs to a RCLK on
           side 0
SM5SIDE1 - the reference belongs to a RCLK on
           side 1
```

This attribute should be populated as indicated.

**Attribute: ref_type**

**Fullname:** Reference Type of Trunk

**Attribute Description** Assign each equipped RCLK reference tuple with the type of trunk used:

```
SMDS1REF - 24 channel domestic T1 trunks
           Clock type must be SM5DS1 or SM24NC2.
```

**Attribute: ref_par**

**Fullname:** Referenced Parameter

**Attribute Description** This parameter specifies the weighting or priority for each reference in a RCLK. For 5E2(2) offices (always Master/Slave sync).

```
The highest stability or most preferred reference
should have a reference parameter of 1.  The next most
preferred reference should have a parameter of 2, and
so on for all equipped references.  For each reference
this parameter should be the same on each side of
the clock.
```

Even though the numbers do not have to be sequential they must be unique for each reference. The SM5XC2 should have a zero reference parameter. A reference (for example, SM5REF1 or SM5REF2) must have a non-zero value.

**Attribute: fmt_ref**

**Fullname:** Reference Signal Format

**Attribute Description** Assign the reference signal format to this attribute for each equipped RCLK reference tuple:

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```
24-channel Fe-B8ZS Format       FEB8    - supported on umbilicals
24-channel Fe-ZCS Format        FEWZC       ,,     ,,     ,,
24-channel D4-ZCS Format        D4WZC   - not supported on umbilicals
If the ref_type is SMDS1REF, the format should be
one of the 24 channel types.
See Warning in rc-oda rules section for the source for RCLK reference.
```

**Attribute: dfi_name**

**Fullname:** DFI Facility Circuit Name

**Attribute Description** This attribute specifies the digital facility interface (DFI) facility circuit name that is used as a remote clock (RCLK) reference. This attribute must contain a valid, operational PCT1FAC internal circuit name, with a tuple in this RSM's RLCKTDATA relation whose key is this attribute, and whose type is PCT1FAC.
In addition, this RSM's RLRCB_HCB relation, whose key is also the PCT1FAC internal circuit name, must have attribute 'rcrefunit' equal to the key to THIS relation (RLSRCREF).

If RCLK uses external references (indicated by ext_ref field set to DBYES) then dfi_name attribute may be set to null circuit name or it may contain circuit name of valid PCT1FAC facility from which the external reference is derived.

**Attribute: ext_ref**

**Fullname:** Is this RCLK Reference Coming from External Source?

**Attribute Description** This attribute specifies if the RCLK reference is from external source (that is, BITS clock) or from HSM-RSM umbilicals. If the reference is external than the value of this attribute has to be DBYES, otherwise the RCLK reference is coming from RSM umbilicals and the value of this attribute must be DBNO.

**defines:**
"db/DMcircuit.h"

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# SRV_DEST

## 1. Description

EIS service destination mapping to *5ESS*®-2000 switch routing type and code.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 512 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
SRV_DEST    relid = 1270  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     serv_dest   DMUSHORT     (ushort)     <--- key
     oaff1       DMUSHORT     (ushort)
     rtg_code    DMRTEIDX     (ushort: 14)
     oaff2       DMUNS8       (ushort: 8)
     eis_id      DMEIS_ID     (ushort: 5)     <--- key
     oaff3       DMUNS3       (ushort: 3)
 (a) rte_type    DMRTETYP     (enum: 4)
         User, Compacted and Stored Tuple Layout   SRV_DEST
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |            serv_dest            |              oaff1            |
    |---------------+---------------+---------------+---------------|
    |                               |   |               |         |     |
  4 |           rtg_code            |***|     oaff2     |  eis_id |oaff3|
    |---------------+---------------+---------------+---------------|
    |       |                                                       |
  8 |   a   |*******************************************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLsrv_dest

**Relation Description**
Service Destination.

This relation provides a mapping of a service destination to a *5ESS*®-2000 switch routing type and associated routing code such as a route index.

The maximum number of tuples will be 512. This is based on a maximum of 4 service destinations per service ID with a maximum of 128 service IDs. The expected average number of tuples is 256.

**Attribute: serv_dest**

**Fullname:** Service Destination

**Attribute Description** This attribute is used to designate the service destination ID.

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**Attribute: eis_id**

**Fullname:** EIS Identification

**Attribute Description** This attribute is used to indicate the EIS ID. This allows the same destination IDs to be used by different vendor systems. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: rte_type**

**Fullname:** Route Type

**Attribute Description** This attribute is used to indicate the *5ESS*®-2000 switch route type. Prior to 5E6(2), only the following values are allowed: OAANFI_RT, OAXANRI_RT, OAOPR_RT, OAANRI_RT.

**Attribute: rtg_code**

**Fullname:** Routing Code

**Attribute Description** This attribute is used to designate the route index. In later generics, this will also designate a route code. Zero is not allowed on the RC/ODA form. It is equivalent to unknown.

**Attribute: oaff1**

**Fullname:** spare 1

**Attribute Description** Spare for fast feature use

**Attribute: oaff2**

**Fullname:** spare 2

**Attribute Description** Spare for fast feature use

**Attribute: oaff3**

**Fullname:** spare 3

**Attribute Description** Spare for fast feature use

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# SRVCDESC

## 1. Description

This static relation resides on every GPDISDN SM and the CMP. The relation contains up to 256 tuples and is "redundant" on each of the GPDISDN SMs and the CMP. The relation is keyed by a feature button action and contains up to a 20 byte service description for each action terminated with the null character (\\0).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 512 |
| expected tuples in relation | 256 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
SRVCDESC    relid = 2035  DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP
     action      DMMCACTN     (enum: 9) <--- key
     servdesc    DMATSTXT21   (array [ 21 ] of char )
         User, Compacted and Stored Tuple Layout   SRVCDESC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                 |             |                               |
  0 |      action     |*************|            servdesc           |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                             servdesc                          |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             servdesc                          |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                             servdesc                          |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                             servdesc                          |
    | - - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                 |             |
 20 |                   servdesc                      |*************|
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

## 4. Population rules for RLsrvcdesc

**Relation Description**

```
        Automatic Terminal Setup Service Descriptions
        This relation contains the service descriptions for all
        feature button actions allowable on Standard Terminals.
        THERE SHOULD NOT BE TUPLES IN THIS RELATION FOR
        CUSTOM BRI feature button actions!
        The relation contains a feature button action ID and an
```

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associated 20 character ASCII text string describing the action. The text string is always terminated with the null character (\\0) by RC and ODA.
NOTE: EACH SOFTWARE RELEASE FEATURE THAT ADDS / DELETE'S ENUMERATIONS IN DMmcactn.G MUST ADD / DELETE THAT ENUM FROM THREE PLACES IN THIS PRL FILE:
1. retrofit-oda table describing the action
3. attribute: action, update the check section
The following standard should be observed when entering the servdesc attribute text via RC and ODA:
A text string in all capital letters is for a 5ESS(R)-2000 switch only feature action and a text string with mixed upper and lower case is for a Bellcore defined text string.
This standard naming convention is not enforced by RC or ODA but is recommended to be followed by the switch personnel when updating the default descriptions provided by ODA and described in the retrofit-oda rules below.

**Attribute:**
action
**Fullname:**
ISDN Feature Button Action ID
**Attribute Description:**
This attribute contains the action ID of a ISDN feature button. The action ID must be allowed for Standard DSLs and Standard configuration groups. The action describes what occurs when a standard terminal button is depressed.
The only downloadable actions are those listed as domain values below.

**Attribute:**
servdesc
**Fullname:**
ISDN Feature Button Action Service Description
**Attribute Description:**
This attribute contains up to 20 characters of ASCII text describing in words, the action taken when a standard terminal feature button containing a feature of this action is depressed. The first character of this attribute must be alphanumeric or the space character in order to ensure correct ODIN operation on RC and ODA views. The first character may not be the null (\\0) character. The remaining 19 characters may be any ASCII/IA5 characters in the range 0x20 to 0x7e (from space to tilde including all printable characters).

This text string is case sensitive where a text string of all capital letters is for a 5ESS(R)-2000 switch only feature action and a text string with mixed upper and lower case is for a Bellcore defined text string. This naming convention is a recommended standard and is not enforced by RC or ODA. The initial values provided by ODA in the

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```
5e9.1 software release may be updated for individual
operating company use.
This text string must be terminated by the null character (\\0).
The domain allows up to 21 characters with the last (21st)
character always being reserved for the null character.
When the string is less than 20 characters, RC and ODA will
terminate the string with the null character after the last
character and also in the 21st character position.
```

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# SRVCODE

## 1. Description

Holds the service code for feature group D incoming signaling for special applications indexed by large noc (NPA-NXX translation) + line number (XXXX).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 5000 |
| expected number of tuples | 690 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
SRVCODE     relid = 2206  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     ospsff1     DMUSHORT     (ushort)
     lnoc        DMLNOC       (ushort: 14)  <--- key
     lnnum       DMLINENO     (ushort: 14)  <--- key
     servicecode  DMUNS14      (ushort: 14)
         User, Compacted and Stored Tuple Layout    SRVCODE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |   |
  0 |            ospsff1            |            lnoc               |***|
    |---------------+---------------+---------------+---------------|
    |                           |   |                               |   |
  4 |           lnnum           |***|        servicecode            |***|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLsrvcode

**Relation Description**
Service code.

This relation holds the service code for feature group D incoming signaling for special applications indexed by large noc (NPA-NXX translation) + line number (XXXX).

**Attribute: lnoc**

**Fullname:** lnoc

**Attribute Description** This consists of the lnoc translation for the NPA-NXX for the line.

**Attribute: lnnum**

**Fullname:** line number

**Attribute Description** This is the line number, a number from 0000-9999. (Lnoc + lnnum are referred to as lnocdn here.)

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**Attribute: servicecode**

**Fullname:** Service Code

**Attribute Description**
Any value from 1-9999.

**Attribute: ospsff1**

**Fullname:** spare field 1

**Attribute Description** This attribute is to be used for fast/special features.

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# SRVDATA

## 1. Description

Service to Data Mapping

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 50 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head page size | 256 |
| data page size | 256 |
| page level | 2 |
| ks key store | DBNO |

## 3. Field Layout

```
SRVDATA     relid = 1757  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     service     DMC_CODE     (ushort: 10)     <--- key, not stored
     bcid        DMAPBCID     (ushort)
     rao         DMUNS8       (ushort: 8)
     spare       DMUNS8       (ushort: 8)
         User and Compacted Tuple Layout    SRVDATA
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  0 |      service      |*******************************************|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  4 |              bcid             |      rao      |     spare     |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     bcid        DMAPBCID     (ushort)
     rao         DMUNS8       (ushort: 8)
     spare       DMUNS8       (ushort: 8)
           Stored Tuple Layout      SRVDATA
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |              bcid             |      rao      |     spare     |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLsrvdata

**Relation Description**
Spare.

This relation is a spare relation.

**Attribute: service**

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**Fullname:** Spare

**Attribute Description** Unknown.

**Attribute: rao**

**Fullname:** spare

**Attribute Description** Unknown.

**Attribute: spare**

**Fullname:** Spare Field

**Attribute Description** Unknown.

**Attribute: bcid**

**Fullname:** spare

**Attribute Description** Unknown.

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# SS7TMRS

## 1. Description

Holds values for CCS timers.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 128 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ks key store or not | AUTO |

## 3. Field Layout

```
SS7TMRS     relid = 2383  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     ss7tmr      DMTMRS       (enum: 7)     <--- key, not stored
     tval        DMLONG       (long)
         User and Compacted Tuple Layout    SS7TMRS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |    ss7tmr    |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                              tval                             |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     tval        DMLONG       (long)
           Stored Tuple Layout      SS7TMRS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                              tval                             |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLss7tmrs

**Relation Description**
Signaling System 7 Timers.

Holds names and values for timers for national and international versions of TSS7, TSS6, CCS7 (North American) and British Telecom TUP. These timers are needed for the Message Transfer Part and the User Part.

**Attribute: ss7tmr**

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**Fullname:** Signaling System 7 Timer Name

**Attribute Description** This is the CCS timer ID.

**Attribute: tval**

**Fullname:** Timer value, in milliseconds.

**Attribute Description** Nominal (default) time values for each timer.

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# SSDLC

## 1. Description

describes each synchronous data link controller (SDLC)/X.25 Protocol Controller (XPC) equipped under a Module Message Processor (MMP).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 768 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | SWMTC |
| relation type | DBSTATIC |
| trigger function | SMsdlctrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ks key store | AUTO |

## 3. Field Layout

```
SSDLC       relid = 237   DBSTATIC   DBACC_CIND  DBPRAM    LP      SWMTC
     phys_id     DMUNS7       (ushort: 7)  <--- key, not stored
 (a) ms_side     DMSIDE       (enum: 1)  <--- key, not stored
 (b) sdlcnum     DMUNS3       (ushort: 3)  <--- key, not stored
     imnum       DMMODULE     (ushort: 8)
 (c) eqstat      DMEQSTAT     (enum: 3)
         User and Compacted Tuple Layout  SSDLC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               | |     |                                       |
  0 |   phys_id     |a|  b  |***************************************|
    |---------------+---------------+---------------+---------------|
    |               |     |                                         |
  4 |     imnum     |  c  |***************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     imnum       DMMODULE     (ushort: 8)
 (a) eqstat      DMEQSTAT     (enum: 3)
          Stored Tuple Layout    SSDLC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |     |                                         |
  0 |     imnum     |  a  |***************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLssdlc

**Relation Description**
This relation describes each SDLC/XPC with which each MMP in the office is equipped.

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This relation describes each SDLC/XPC with which each MMP in the office is equipped. Each MMP can be equipped with a maximum of 8 SDLC/XPC devices. Recall that an SDLC is the protocol device for a Model 1 MMP (MMP1) and an XPC for a Model 2 MMP (MMP2). In addition to the SDLC/XPC's equipage state, this relation identifies the SM to which the SDLC/XPC is connected.

For each tuple in RLssdlc there must be a tuple in RLspc that describes the parent MMP. That is, the MMP whose phys_id and ms_side key attributes correspond to the phys_id and ms_side key attributes of the RLssdlc tuple. For the proper number of RLssdlc tuples for an operational MMP see RLspc

Also, for each tuple in RLmodatt that describes an operational SM, there should be at least two tuples in RLssdlc. The official term for Full or Quad (4 MMPs) is Dual MMPs. The official term for Half (2 MMPs) is Single MMPs. The terms Dual and Single are used in most customer documentation for these MMP configurations. Starting in 5E6, the CM2 office data will allow a Single MMP, a Dual MMP or a combination of both Single and Dual (that is, some SMs can be connected to 2 MMPs and others to 4 MMPs in the same office) equipage options. For generics prior to 5E6, the CM2 office data will allow only the Single MMP equipage option.

In a CM1 office or a CM2 office with a full MMP equipage option, the four tuples should represent operational SDLC/XPCs. In a CM2 office with a half MMP equipage option, two tuples should represent operational XPCs.

Note that MMPs in a CM1 are initially equipped with only 4 SDLCs (sdlcnum 0 through 3). The other 4 SDLCs (sdlcnum 4 through 7) may be equipped only if the growth board (the 2nd TN858) is equipped. Thus there must be 4 RLssdlc tuples for each RLspc tuple that is an MMP with the growth board unequipped, and there must be 8 RLssdlc tuples for each RLspc tuple that is an MMP has the growth board equipped.

On the other hand, MMPs in a CM2 are always equipped with 8 XPCs. Thus, there must be 8 RLssdlc tuples associated for each RLspc tuple that is an MMP. This check is done in RLspc for efficiency.

**Attribute: phys_id**

**Fullname:** physical identifier

**Attribute Description** This attribute specifies the physical identification of the MMP that owns this SDLC/XPC. See the phys_id attribute in the RLspc relation for a description of this attribute. This attribute is used as the key to this relation along with the ms_side and sdlcnum attributes described in the following.

This attribute should be populated with the physical identifier of the MMP that owns the SDLC/XPC described by this tuple.

**Attribute: ms_side**

**Fullname:** system side

**Attribute Description** This attribute specifies the system side to which the MMP that owns this SDLC/XPC. See the RLspc relation for a description of this attribute. This attribute is used as the key to relation along with the phys_id attribute described previously and the sdlc attribute described in the following.

This attribute should be populated with SMSIDE0 if the MMP that owns this SDLC/XPC is on the system side 0. Otherwise, this attribute should be populated with SMSIDE1.

**Attribute: sdlcnum**

**Fullname:** SDLC number

**Attribute Description** This attribute identifies this SDLC/XPC from the other SDLC/XPC with

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which the MMP that owns this SDLC/XPC may be equipped. This attribute is used as the key to this relation along with the phys_id and ms_side attributes described previously.

The domain of sdlcnum is an unsigned bit field of 3 bits. The values that may be assumed by this attribute are 0 to 7.

This attribute should be populated with a value between 0 and 7 that uniquely identifies the SDLC/XPC from the other SDLC/XPCs with which its parent MMP may be equipped.

**Attribute: imnum**

**Fullname:** SM number

**Attribute Description** This attribute specifies the SM to which this SDLC/XPC is connected. This attribute contains the same information as the module attribute in the relation RLmodatt. See that relation for a detailed discussion.

This attribute should be populated with the identifier of the SM to which this SDLC/XPC is connected. If the SDLC/XPC is not connected to a SM, this attribute should be populated with 0.

**Attribute: eqstat**

**Fullname:** equipage state of this SDLC/XPC

**Attribute Description** The following are the enumeration values that eqstat may assume:

```
SMOPER - the SDLC/XPC is equipped and the SM to which
         it is connected is operational
SMGROW - the SDLC/XPC is equipped and the SM to which
         it is to be connected is either unequipped or
         in growth. See the following Relation dependencies.
SMSGRO - the SDLC/XPC is equipped and the SM to which
         it is to be connected is in special growth. A
         SDLC/XPC in special growth can be initialized
         and diagnosed and its interrupts may be allowed,
         but can not be used to set up Level 2 protocol.
SMUNEQ - the SDLC/XPC is unequipped.
```

An SDLC/XPC should be in the operational state (SMOPER) when the SDLC/XPC is assigned to an operational SM. An SDLC/XPC should be in the growth state (SMGROW) when the SDLC/XPC is physically in the system but not assigned to an operational SM. In CM1 this situation may occur since each TN858 board (2 per MMP) physically contains 4 SDLCs. If not all 4 SDLCs are being utilized, then the unused SDLCs will be placed in the growth state (SMGROW) until more SMs are grown into the office in the future. Analogously, in CM2 this situation may occur since each TN870 board (1 per MMP) physically contains 8 XPCs. If not all 8 XPCs are being utilized, then the unused XPCs will be placed in the growth state (SMGROW) until more SMs are grown into the office in the future.

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# SSN_IDX

## 1. Description

This relation will provide the information necessary for the mapping of an accounted SCCP subsystem number to the subsystem number index.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 10 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
SSN_IDX     relid = 2524  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     ssn          DMUNS8       (ushort: 8)     <--- key
     ssnindx      DMUNS4       (ushort: 4)
         User and Compacted Tuple Layout    SSN_IDX
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |       |                                       |
  0 |      ssn      |ssnindx|***************************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
     ssn          DMUNS8       (ushort: 8)     <--- key
     ssnindx      DMUNS4       (ushort: 4)
           Stored Tuple Layout      SSN_IDX
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |       |                                       |
  0 |      ssn      |ssnindx|***************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLssn_idx

**Relation Description**
SCCP Accounting Subsystem Number to Index.

This relation will provide the information necessary for the mapping of an accounted SCCP subsystem number to a subsystem number index.

**Attribute: ssn**

**Fullname:** Subsystem Number

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**Attribute Description** This attribute will contain the subsystem number being accounted.

**Attribute: ssnindx**

**Fullname:** Subsystem Number Index

**Attribute Description** The index to the subsystem number being accounted.

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# SSN_USER

## 1. Description

This relation defines the mapping between subsystem numbers and the associated SCCP users.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 256 |
| expected number of tuples | 4 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution type | FP |
| relation type | DBSTATIC |
| trigger function | CCssn_user |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| ks key store | DBNO |

## 3. Field Layout

```
SSN_USER    relid = 2525  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     ssn          DMUCHAR      (uchar)     <--- key, not stored
     scp_user     DMSCP_USER   (enum: 8)
     trans_type   DMUCHAR      (uchar)
     nai          DMUNS7       (ushort: 7)
 (a) num_plan     DMUNS4       (ushort: 4)
     calling_addr  DMBCD_DN     (struct)
         dn0          DMUNS4       (ushort: 4)
         dn1          DMUNS4       (ushort: 4)
         dn2          DMUNS4       (ushort: 4)
         dn3          DMUNS4       (ushort: 4)
         dn4          DMUNS4       (ushort: 4)
         dn5          DMUNS4       (ushort: 4)
         dn6          DMUNS4       (ushort: 4)
         dn7          DMUNS4       (ushort: 4)
         dn8          DMUNS4       (ushort: 4)
         dn9          DMUNS4       (ushort: 4)
         dn10         DMUNS4       (ushort: 4)
         dn11         DMUNS4       (ushort: 4)
         dn12         DMUNS4       (ushort: 4)
         dn13         DMUNS4       (ushort: 4)
         dn14         DMUNS4       (ushort: 4)
         digcnt       DMDIGCNT     (uchar: 4)
         User and Compacted Tuple Layout   SSN_USER
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |      ssn      |***********************************************|
    |---------------+---------------+---------------+---------------|
    |               |               |               |       |       |
  4 |    scp_user   |   trans_type  |     nai       |   a   |*******|
    |===============+========  calling_addr ========+===============|
    |       |       |       |       |       |       |       |       |
```

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```
  8 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |-------+-------+-------+-------+-------+-------+-------+-------|
    |       |       |       |       |       |       |       |       |
 12 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+===============+===============+===============|
       ( 16 bytes )
     scp_user     DMSCP_USER    (enum: 8)
     trans_type   DMUCHAR       (uchar)
     nai          DMUNS7        (ushort: 7)
 (a) num_plan     DMUNS4        (ushort: 4)
     calling_addr  DMBCD_DN      (struct)
         dn0          DMUNS4        (ushort: 4)
         dn1          DMUNS4        (ushort: 4)
         dn2          DMUNS4        (ushort: 4)
         dn3          DMUNS4        (ushort: 4)
         dn4          DMUNS4        (ushort: 4)
         dn5          DMUNS4        (ushort: 4)
         dn6          DMUNS4        (ushort: 4)
         dn7          DMUNS4        (ushort: 4)
         dn8          DMUNS4        (ushort: 4)
         dn9          DMUNS4        (ushort: 4)
         dn10         DMUNS4        (ushort: 4)
         dn11         DMUNS4        (ushort: 4)
         dn12         DMUNS4        (ushort: 4)
         dn13         DMUNS4        (ushort: 4)
         dn14         DMUNS4        (ushort: 4)
         digcnt       DMDIGCNT      (uchar: 4)
           Stored Tuple Layout     SSN_USER
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                |                |              |       |         |
  0 |    scp_user    |   trans_type   |     nai      |   a   |*********|
    |================+========  calling_addr ========+===============|
    |       |       |       |       |       |       |       |       |
  4 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |-------+-------+-------+-------+-------+-------+-------+-------|
    |       |       |       |       |       |       |       |       |
  8 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+===============+===============+===============|
       ( 12 bytes )
```

## 4. Population Rules for RLssn_user

**Relation Description**
SCCP Subsystem Definition Relation.

This relation defines the mapping between subsystem numbers and the associated SCCP users. It is used by the SCCP routing control (SCRC) to determine the local user that corresponds to a particular subsystem.

***NOTE:*** The subsystem number 1 is pre-defined as SCCP management in the SCCP code. It shouldn't be defined by this relation.

**Attribute: ssn**

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**Fullname:** SCCP Subsystem Number

**Attribute Description** This attribute specifies the subsystem number.

**Attribute: scp_user**

**Fullname:** SCCP User Function

**Attribute Description** This attribute specifies the user function that is associated with the subsystem number.

**Attribute: calling_addr.digcnt**

**Fullname:** Calling Party Address Digit Count

**Attribute Description** This attribute gives the number of digits in the dn[*] portion of the calling party address structure.

**Attribute:**
calling_addr.dn0,
calling_addr.dn1,
calling_addr.dn2,
calling_addr.dn3,
calling_addr.dn4,
calling_addr.dn5,
calling_addr.dn6,
calling_addr.dn7,
calling_addr.dn8,
calling_addr.dn9,
calling_addr.dn10,
calling_addr.dn11,
calling_addr.dn12,
calling_addr.dn13,
calling_addr.dn14
**Fullname:** Calling Party Address Digits
**Attribute Description**
These attributes are the digits of the calling party address of this sub-system (SCCP User).

**Attribute: trans_type**

**Fullname:** SCCP Translation Type

**Attribute Description** This attribute declares the type of SCCP translation that the digit string in calling_addr represents.

**Attribute: num_plan**

**Fullname:** SCCP Numbering Plan

**Attribute Description** SCCP numbering plan of the calling address.

**Attribute: nai**

**Fullname:** SCCP Nature of Address Indicator

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**Attribute Description** SCCP nature of address indicator of the calling address.

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# SSP_ANN

## 1. Description

This relation portrays the Service Switching Point Announcement Code associated to internal treatment.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 300 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | DBNO |

## 3. Field Layout

```
SSP_ANN     relid = 894   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     sspacode    DMSSPACODE   (ushort: 16) <--- key, not stored
     cust_hdr    DMUN17       (ulong: 17)
     ann_ri      DMRTEIDX     (ushort: 14)
     cust_trl    DMUN17       (ulong: 17)
 (a) tone_type   DMASPTONETYPE (enum: 2)

         User and Compacted Tuple Layout    SSP_ANN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             sspacode          |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                 |                             | |
  4 |              cust_hdr           |           ann_ri            |*|
    |---------------+---------------+---------------+---------------|
    |                                 |   |                         |
  8 |              cust_trl           | a |*************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )

     cust_hdr    DMUN17       (ulong: 17)
     ann_ri      DMRTEIDX     (ushort: 14)
     cust_trl    DMUN17       (ulong: 17)
 (a) tone_type   DMASPTONETYPE (enum: 2)
           Stored Tuple Layout      SSP_ANN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               | |
  0 |              cust_hdr         |           ann_ri            |*|
    |---------------+---------------+---------------+---------------|
    |                               |   |                           |
  4 |              cust_trl         | a |*************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLssp_ann

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**Relation Description**

Service Switching Point Announcement code.

Service switching point announcement code associated to internal treatment.

**Attribute:**

sspacode

**Fullname:**

Service Switching point announcement code.

**Attribute Description:**

Service Switching Point code is the integer representation of the announcement code digits in the TCAP message recieved from the SCP database.

**Attribute:**

ann_ri

**Fullname:**

Announcement route index.

**Attribute Description:**

SSP announcement route index.
For each cust_hdr value in this relation, there should be a corresponding tuple in the RLannc_hdr relation with application FCPVN_CA. For each cust_trl value in this relation, there should be a corresponding tuple in the RLannc_trl relation with application FCPVN_CA. The RLannc_hdr and RLannc_trl tuples with application FCPVN_CA are not populated on all SMs, but it is recommended that they be populated redundantly across all SMs equipped with DSU2s used by the ASP application. These SMs should be marked in a tuple in the RLannc_apl relation with application FCPVN_CA.
This is a route index of a trunk group in this office. All route indices in this relation must have a corresponding tuple in RLrt_routing and the trunk group assigned to this route index in RLrt_routing must be of type
RTANNCMNT ( announcement type).
RTTWOWAY ( two way trunk )
RTOUTGO ( outgoing trunk )

**Attribute:**

cust_hdr

**Fullname:**

Customized header identification.

**Attribute Description:**

This attribute maps announcement ids from the SCP database to customized announcement phrases on the DSU2 (Digital Service Unit).

**Attribute:**

cust_trl

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**Fullname:**

Customized trailer identification.

**Attribute Description:**

This attribute maps announcement ids from the SCP database to customized announcement phrase on the DSU2 ( Digital Service Unit ).

**Attribute:**

tone_type

**Fullname:**

Network tone type.

**Attribute Description:**

This attribute will provide a network tone with universal tone generator (UTG) as one of the possible treatments to the SCP networ announcement request.

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# ST2VPIDB

## 1. Description

This relation maps from the synchronous transport signal (STS1) facility to the time slot interchanger (TSI) and virtual peripheral interface data buses (VPIDB) associated with the facility.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 36 |
| expected tuples in relation | 6 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
ST2VPIDB    relid = 2114  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     sts_cktname  DMCIRCUIT    (ushort)  <--- key
     tsi_lnk0    DMLINKNO     (ushort: 6)
     tsi_lnk1    DMLINKNO     (ushort: 6)
     tsi_lnk2    DMLINKNO     (ushort: 6)
     facmap0     DMFACMAP     (ulong)
     facmap1     DMFACMAP     (ulong)
     facmap2     DMFACMAP     (ulong)
         User, Compacted and Stored Tuple Layout   ST2VPIDB
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |           |           |       |
  0 |          sts_cktname          |  tsi_lnk0 |  tsi_lnk1 |*******|
    |---------------+---------------+---------------+---------------|
    |            |                                                  |
  4 |  tsi_lnk2 |**************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                              |
  8 |                            facmap0                           |
    |---------------+---------------+---------------+---------------|
    |                                                              |
 12 |                            facmap1                           |
    |---------------+---------------+---------------+---------------|
    |                                                              |
 16 |                            facmap2                           |
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population Rules for RLst2vpidb

**Relation Description**
STS to Virtual PIDB.

This relation associates a SONET STS-1 facility with a virtual peripheral interface data bus (VPIDB). A VPIDB is a structure on a peripheral control and timing (PCT) link.

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**Attribute: sts_cktname**

**Fullname:** STS-1 circuit name

**Attribute Description** The circuit name of the STS-1 facility.

**Attribute: tsi_lnk[*]**

**Fullname:** Time Slot Interchanger link number

**Attribute Description** The TSI link number where the STS-1 is terminated.

**Attribute: facmap[*]**

**Fullname:** Bitmap of facilities associated with VPIDBs

**Attribute Description** This attribute identifies the bitmap of the VPIDBs associated with a PCT link. There is one bit for each of 32 possible VPIDBs. If the bit is a 1, then the facility associated with the VPIDB is equipped. Otherwise the facility associated with the VPIDB is not equipped.

**defines:**
"db/DMlinkno.h",
"db/DMvpidb.h"

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# STINFO

## 1. Description

This is a static relation containing serving team related information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| expected tuples in relation | 16 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFG |
| relation type | DBSTATIC |
| ks key store | AUTO |
| trigger function | ACtservtm |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction | DBNO |

## 3. Field Layout

```
STINFO      relid = 642   DBSTATIC   DBACC_CIND  DBPRAM    LRFG    NULL
     carrid       DMBCARID      (ushort: 14)
 (a) st_optype    DMOPRTYP      (enum: 1)
 (b) st_acdtype   DMBOOL        (enum: 1)
     pic2         DMBCARID      (ushort: 14)
 (c) oaedi        DMOAEDI       (enum: 2)
     ffcf1        DMUNS14       (ushort: 14)
 (d) nisp         DMBOOL        (enum: 1)
 (e) nisp_only    DMBOOL        (enum: 1)
     pic4         DMBCARID      (ushort: 14)
 (f) intra_alwd   DMBOOL        (enum: 1)
 (g) mus_selctd   DMBOOL        (enum: 1)
     mus_routex   DMRTEIDX      (ushort: 14)
 (h) stinfsp1     DMBOOL        (enum: 1)
 (i) stinfsp2     DMBOOL        (enum: 1)
     screen_x     DMSCRNIDX     (ushort: 12)
 (j) ci_dial      DMCI_DIAL     (enum: 3)
 (k) emerg_conf   DMBOOL        (enum: 1)
     serv_tm      DMUNS8        (ushort: 8) <--- key
     conf_q       DMUNS8        (ushort: 8)
     sa_q         DMUNS8        (ushort: 8)
     ct_count     DMUNS8        (ushort: 8)
     sct_count    DMUNS8        (ushort: 8)
     resxdl_idx   DMUNS7        (ushort: 7)
 (l) dasc_avail   DMBOOL        (enum: 1)
     digtree      DMDA_TREE     (ushort: 7)
     digtree2     DMDA_TREE     (ushort: 7)
 (m) autoclosendanc  DMBOOL         (enum: 1)
     mxpcntsup    DMUNS7        (ushort: 7)
     ospsff       DMUNS7        (ushort: 7)
     ctmask1      DMHEX32       (ulong)
     ctmask2      DMHEX32       (ulong)
     ctmask3      DMHEX32       (ulong)
     ctmask4      DMHEX32       (ulong)
```

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```
    sctmsk1     DMHEX32      (ulong)
    sctmsk2     DMHEX32      (ulong)
    sctmsk3     DMHEX32      (ulong)
    sctmsk4     DMHEX32      (ulong)
        User, Compacted and Stored Tuple Layout STINFO
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                           | | |                           |   |
 0 |           carrid          |a|b|            pic2           | c |
   |---------------+---------------+---------------+---------------|
   |                           | | |                           | | |
 4 |           ffcf1           |d|e|            pic4           |f|g|
   |---------------+---------------+---------------+---------------|
   |                           | | |                       |     | |
 8 |         mus_routex        |h|i|        screen_x       |  j  |k|
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
12 |    serv_tm    |     conf_q    |      sa_q     |    ct_count   |
   |---------------+---------------+---------------+---------------|
   |               |             | |             |             | | |
16 |   sct_count   |  resxdl_idx |l|   digtree   |   digtree2  |m|*|
   |---------------+---------------+---------------+---------------|
   |             |             |                                   |
20 |  mxpcntsup  |    ospsff   |***********************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
24 |                           ctmask1                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
28 |                           ctmask2                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
32 |                           ctmask3                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
36 |                           ctmask4                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
40 |                           sctmsk1                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
44 |                           sctmsk2                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
48 |                           sctmsk3                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
52 |                           sctmsk4                             |
   |---------------+---------------+---------------+---------------|
     ( 56 bytes )
```

## 4. Population rules for RLstinfo

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**Relation Description**

Serving Team Information

This relation contains information associated with OSPS and C-ACD serving teams.

Tuples of this relation record information related to OSPS DA, T&A and Commercial ACD serving teams.

**Attribute:**
serv_tm
**Fullname:**
Serving Team Number
**Attribute Description:**
RC/V Note: deletions of tuples in this relation must check the following relation(s) for dependencies:

CTINFO, OLOGINID

Deletion of a serv_tm from this relation should be reflected in RLaut_rec and RLid_st, resulting in the removal of all occurrences of deleted serv_tm number from RLaut_rec and RLid_st.
If a tuple is inserted or deleted from STINFO, then a tuple with the same key must be also be inserted or deleted in relation INTERFLW.

**Attribute:**
dasc_avail
**Fullname:**
DAS/C datalink availability
**Attribute Description:**
Indicates whether there is a DAS/C datalink available for use by this serving team. That is, can this serving team request automated announcements?

The rules and restrictions for this attribute (dasc_avail) apply only if st_optype = OSPSDA. If st_optype = OSPSTA then switch personnel should not be allowed to update this attribute. In this case, the dasc_avail attribute should have a DEFAULT value of DBNO. NOTE: if st_optype = OSPSDA, it is MANDATORY that the rules set up for this attribute are followed.
May not be set to DBYES if Gldasc_vendor = FCDAS_NONE.

**Attribute:**
oaedi
**Fullname:**
Serving team external dialing indicator
**Attribute Description:**
Indicates whether serving team allowed to dial external numbers.
The rules and restrictions for this attribute (oaedi), apply only if st_optype = OSPSDA, or if st_optype = OSPSTA and

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the operator is on a Listing Services type call.
If st_optype = OSPSTA and the operator is on any other
T&A type call (0-, 0+, coin, etc.), the operator will be
unrestricted, independent of how this attribute is set.

**Attribute:**
resxdl_idx
**Fullname:**
Restricted external dialing table index
**Attribute Description:**
When members of the serving team are allocate to dial external numbers,
this attribute indicates where any restrictions are defined. It is
the index to the restricted external dialing table.
If oaedi equals OA_RES, then this attribute must be in the range 1-64.
If oaedi equals OA_UNRES, and there is an ologinid tuple whose
extdl_per equals OA_RES and whose serv_tm matches this tuple's
serv_tm, then this resxdl_idx attribute must be in the range 1-64.
For every non-zero value of resxdl_idx, there must be the same value in
relation RLresxdl.

**Attribute:**
carrid
**Fullname:**
Carrier ID
**Attribute Description:**
Identifies the carrier to be used when dialing external numbers
When the carrid is specified, it must be a valid carrier id which
exists in the RLfc_carr relation.
(Note: this value is independent of the mass presubscribed
carrier: Glcarrid). If st_optyp = OSPSTA, the carrid field is
not used and should be restricted to the default value.

**Attribute:**
pic2
**Fullname:**
Primary Intra-LATA-Toll Carrier ID
**Attribute Description:**
Identifies the Intra-LATA-Toll carrier to be used when dialing
external numbers. When the pic2 is specified, a valid carrier
must exist in RLfc_carr. It is mapped to the three letters 'LEC'
on the RC/ODA view. The value of #NULL_BCARID is assigned if the
serving team has a non-existing carrier ID. The value of
#NULL_BCARID is not displayed on the RC/ODA view. It is mapped
to unknown.

**Attribute:**
ffcf1
**Fullname:**
spare unsigned short 14

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**Attribute Description:**
Spare unsigned short 14

**Attribute:**
pic4
**Fullname:**
Presubscribed international carrier ID
**Attribute Description:**
This attribute identifies the presubscribed international carrier ID.

**Attribute:**
emerg_conf
**Fullname:**
Emergency Conference permission
**Attribute Description:**
Indicates whether serving team members are allowed to conference for emergency calls.

**Attribute:**
conf_q
**Fullname:**
Conference Queue
**Attribute Description:**
Queue to be used to get to a conference operator/agent for an emergency call.

If emerg_conf equals DBNO, conf_q=0, else Range: 1-128 and there must be a tuple in RLctinfo whose key matches this value.

**Attribute:**
sa_q
**Fullname:**
Service Assistant queue call type
**Attribute Description:**
Defines queue to be used to reach a service assistant.
If greater than 0, there must be a tuple in RLctinfo whose key is equal to this value.

**Attribute:**
ctmask1
**Fullname:**
Call Type Mask part 1
**Attribute Description:**
Mask for call types 1-32. Low order bit represents call type 1. ctmask1 through ctmask4 form a 128 bit mask. A 1 indicates that this team serves the call type, a 0 indicates that it does not. If the bit mask is all 0s, then the serv_tm should not appear in the CTINFO relation. ctmask1 thru ctmask4 is used by the principal

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serving team only. The first serving team in a call type queue's list is called the principal serving team (attribute serv_tm in RLctinfo), all others are called supporting serving teams (attribute sup_tm(1-8)) in RLctinfo).

If a bit is set in a given mask, the same bit in the same mask for a different serv_tm must NOT be set. For each bit set in a mask for a serv_tm, there must exist a corresponding tuple in CTINFO having the same call type and serv_tm.

**Attribute:**
ctmask2
**Fullname:**
Call Type Mask part 2
**Attribute Description:**
DESCR: Mask for call types 33-64. Low order bit represents call type 33.

**Attribute:**
ctmask3
**Fullname:**
Call Type Mask part 3
**Attribute Description:**
Mask for call types 65-96. Low order bit represents call type 65.

**Attribute:**
ctmask4
**Fullname:**
Call Type Mask part 4
**Attribute Description:**
Mask for call types 97-128. Low order bit represents call type 97.

**Attribute:**
ct_count
**Fullname:**
CT mask bit count
**Attribute Description:**
This is a count of how many bits are set to 1 in ctmask1 through ctmaks4.
Essentially this is the count of principal call types. This is an internally maintained count of bits set and does not appear in any ODA forms.

**Attribute:**
screen_x
**Fullname:**
Screening Index
**Attribute Description:**

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This attribute allows for different billing rates on outgoing calls. In addition to handling special billing, this index allows for routing the calls to the appropriate trunk location. The relation RLrt_scrning must have tuple(s) corresponding to this index.

**Attribute:**
digtree
**Fullname:**
Digit analysis table identifier for normal dialing
**Attribute Description:**
Digit analysis table identifier which is used in normal operator external dialing to tell what table to start at in analyzing the dialed numbers.
The relation RLda_digstrt must contain an entry corresponding to this index. The rules and restrictions for this attribute apply for either setting of st_optype. When st_optype = OSPSTA, this digtree is only used when the operator enters a forward, conference or route number on a delay call and there is no valid back number.
For st_optype = OSPSTA, it is MANDATORY that the rules set up for this attribute are followed.

**Attribute:**
digtree2
**Fullname:**
Secondary digit analysis tree identifier
**Attribute Description:**
Secondary Digit analysis table identifier which is used for Operator Special Dial Codes. The relation RLda_digstrt must contain an entry corresponding to this index except if digtree2 is 0, indicating OSDCs may not be dialed. If st_optyp = OSPSTA, digtree2 is not used. It should be restricted to the default value of 0.

**Attribute:**
ci_dial
**Fullname:**
Carrier Dialing status
**Attribute Description:**
Specifies the carrier dialing permissions.
Examples of possible values are:
CI_ALLOWED (may dial 10XX)
CI_PROHIBITED (cannot dial 10XX)
CI_REQUIRED (must dial 10XX).
TEST_ALLOW (test call may dial 10XXX)
TEST_PROHIB (test call cannot dial 10XXX)
TEST_REQ (test call must dial 10XXX)
If st_optyp = OSPSTA, ci_dial is not used. This field should be set to the default of CI_PROHIBITED.

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**Attribute:**
st_optype
**Fullname:**
Serving Team Operator Type
**Attribute Description:**
Type of operator that handles this serving team. The st_optype attribute may not be updated by RC/V - it may only be specified during an RC/V insertion.

**Attribute:**
st_acdtype
**Fullname:**
Serving Team commercial ACD type
**Attribute Description:**
This serving team is used to handle OSPS commercial ACD calls. For this to be set to DBYES the st_optype must be set to OSPSDA.

**Attribute:**
nisp
**Fullname:**
Non-ISP calls handled indicator
**Attribute Description:**
Indicates if the serving team handles non-ISP and TA (ISP) calls. It must be DBYES or DBNO if st_optype is OSPSTA. It can be DBYES only if st_optype is OSPSTA and nisp_only is DBNO.

**Attribute:**
nisp_only
**Fullname:**
Non-ISP calls ONLY indicator
**Attribute Description:**
Indicates if the serving team handles only non-ISP calls. It must be DBYES or DBNO if st_optype is OSPSTA. It can be DBYES only if st_optype is OSPSTA and nisp is DBNO.

**Attribute:**
sctmsk1
**Fullname:**
Supporting call type to serving team mask, part 1
**Attribute Description:**
Mask for supporting call types 1-32. Low order bit represents call type 1.

Attributes sctmsk1 thru sctmsk4 is used by Intraflow. It indicates supporting call types for this serving team. A supporting call type is a call type that is handled by a supporting serving team. This bit field is used to indicate the supporting call queues this supporting serving team handles.
For example, assume a tuple in RLstinfo has a key value of 3.

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If a tuple keyed by call type 1 in RLctinfo has supporting team 1 equal to 3 (sup_tm1=3 in RLctinfo) and a tuple keyed by call type 5 in RLctinfo has supporting team 1 equal to 3 (sup_tm1=3 in RLctinfo) bits 1 and 5 would be set in sctmsk1 indicating the secondary call types served by this supporting serving team.

(binary) sctmsk1=00000000000000000000000000010001
(hex) sctmsk1=0x00000011

This bit field is maintained and updated internally and does not appear on any RC/ODA form.

**Attribute:**
sctmsk2
**Fullname:**
Supporting call type to serving team mask, part 2
**Attribute Description:**
Mask for supporting call types 33-64. Low order bit represents supporting call type 33.

**Attribute:**
sctmsk3
**Fullname:**
Supporting call type to serving team mask, part 3
**Attribute Description:**
Mask for supporting call types 65-96. Low order bit represents supporting call type 65.

**Attribute:**
sctmsk4
**Fullname:**
Supporting call type to serving team mask, part 4
**Attribute Description:**
Mask for supporting call types 97-128. Low order bit represents supporting call type 97.

**Attribute:**
sct_count
**Fullname:**
Supporting Call Type mask bit count
**Attribute Description:**
This is a count of how many bits are set to 1 in sctmask1 through sctmaks4. Essentially this is the count of secondary call types. This is an internally maintained count of bits set and does not appear in any ODA forms.

**Attribute:**
intra_alwd
**Fullname:**
Intraflowed calls allowed

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**Attribute Description:**

This attribute indicates whether the serving team is allowed to receive intraflowed calls.
An ODA warning message should be displayed if the intra_alwd attribute is DBYES and the global parameter Glac_intra is set to DBNO.

**Attribute:**

mxpcntsup

**Fullname:**

Maximum Percent of serving team available for support call types

**Attribute Description:**

Max % [0-100] of the serving team that is allowed to handle calls from supporting call queues.

Example: (assume no delay outflow threshold)

1. team 3's team threshold is 50% (mxpcntsup=50), it has 4 agents(operators) logged in, 2 are busy with calls from supporting queues (2/4= 50% at the threshold),
2. team 4's team threshold is 75% (mxpcntsup=75%), it has 10 agents(operators) logged in, 1 is busy with a call from a supporting queue (1/10= 10% under the threshold),

When a call arrives it's principal team has calls queued, it tries to go to team 3 but it would go over the 50 % threshold, so it tries team 4 and finds it can be intraflowed to this team and remain under the threshold of 75 % :

If mxpcntsup = 0 then RLstinfo.intra_alwd must be DBNO.
For a mxpcntsup > 0, RLstinfo.intra_alwd could be DBNO or DBYES.

**Attribute:**

mus_routex

**Fullname:**

Music on hold Route Index

**Attribute Description:**

This attribute specifies the route index of the music source to be used when a member of the serving team puts a call on hold.

**Attribute:**

mus_selctd

**Fullname:**

Music on hold selected for serving team

**Attribute Description:**

This attribute indicates whether music is to be provided to calls members of this serving team put on hold.

**Attribute:**

ospsff

**Fullname:**

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OSPS fast feature item

**Attribute Description:**

The item is to be used for future OSPS special feature development.

**Attribute:**

stinfsp1

**Fullname:**

stinfo spare 1

**Attribute Description:**

stinfo spare attribute.

**Attribute:**

stinfsp2

**Fullname:**

stinfo spare 2

**Attribute Description:**

stinfo spare attribute.

**Attribute:**

autoclosendanc

**Fullname:**

Automated Close End Announcement

**Attribute Description:**

This field is used for the OSPS activation/deactivation parameter used to control the application of automated close-end announcement treatment based on the operator serving team as defined in the OSPS Serving Team view.

**Defines:**

"db/DMcarr_val.h"

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# STPARM

## 1. Description

This static relation contains serving team related information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 999 |
| expected number of tuples | 180 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | ACDBRCS |
| relation type | DBSTATIC |
| ks key store | AUTO |
| trigger function | CDtstparm |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction | DBNO |

## 3. Field Layout

```
STPARM    relid = 2351  DBSTATIC   DBACC_CIND  DBPRAM    LPFG    ACDBRCS
     tgid         DMUNS16      (ushort)
     serv_tm      DMSTNUM      (ushort: 10)     <--- key
 (a) mon_tones    DMMON_TONES  (enum: 2)
 (b) emerg_conf   DMBOOL       (enum: 1)
 (c) intra_alwd   DMBOOL       (enum: 1)
 (d) aft_call_wk  DMBOOL       (enum: 1)
 (e) live_mike    DMBOOL       (enum: 1)
     acdgrp       DMACDGRP     (ushort: 10)
 (f) psap         DMBOOL       (enum: 1)
     conf_q       DMCQNUM      (ushort: 10)
     sa_q         DMCQNUM      (ushort: 10)
     mxpcntsup    DMUNS7       (ushort: 7)
         User, Compacted and Stored Tuple Layout STPARM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                   |   | | | | |
  0 |              tgid              |      serv_tm      | a |b|c|d|e|
    |---------------+---------------+---------------+---------------|
    |                   | |         |                   |           |
  4 |       acdgrp      |f|*********|       conf_q      |***********|
    |---------------+---------------+---------------+---------------|
    |                   |           |              |                |
  8 |        sa_q       |***********|  mxpcntsup   |****************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLstparm

**Relation Description**
Serving Team Parameters.

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This relation contains information associated with ACD/BRCS serving teams.

**Attribute: serv_tm**

**Fullname:** Serving Team Number

**Attribute Description** This key attribute is the serving team number for ACD/BRCS.

**Attribute: emerg_conf**

**Fullname:** Emergency Conference Permission

**Attribute Description** Indicates whether serving team members are allowed to conference for emergency calls.

**Attribute: conf_q**

**Fullname:** Emergency Conference Queue

**Attribute Description** Queue to be used to get to a conference agent for an emergency call.

**Attribute: sa_q**

**Fullname:** Service Assistant Queue Call

**Attribute Description** Defines queue to be used to reach a service assistant.

**Attribute: intra_alwd**

**Fullname:** Intraflowed Calls Allowed

**Attribute Description** This attribute indicates whether the serving team is allowed to receive intraflowed calls.

**Attribute: mxpcntsup**

**Fullname:** Maximum Percent of Serving Team Available for Support Call Queues

**Attribute Description** Max % [0-100] of the serving team that is allowed to handle calls from supporting call queues. Example: (assume no delay outflow threshold)

1. Team 3's team threshold is 50% (mxpcntsup=50), it has 4 agents logged in, 2 are busy with calls from supporting queues (2/4= 50% at the threshold).
2. Team 4's team threshold is 75% (mxpcntsup=75%), it has 10 agents logged in, 1 is busy with a call from a supporting queue (1/10= 10% under the threshold).

When a call arrives it's principle team has calls queued, it tries to go to team 3 but it would go over the 50% threshold, so it tries team 4 and finds it can be intraflowed to this team and remain under the threshold of 75%.

**Attribute: aft_call_wk**

**Fullname:** After Call Work State (Auto Make Busy) Indicator

**Attribute Description** If aft_call_wk is DBYES, then the ACD/BRCS position will enter the 'MakeBusy with ACD call' state after the agent services a hunted call.

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**Attribute: live_mike**

**Fullname:** Live Mike (During Service Observe) Indicator

**Attribute Description** If live_mike is DBYES then the ACD/BRCS service observer is by default given a 2-way connection when service observing (such as, monitoring). If live_mike is DBNO then the ACD/BRCS service observer is by default given a 1-way connection when service observing (such as, monitoring).

**Attribute: mon_tones**

**Fullname:** Service Observe Monitoring Tone Direction

**Attribute Description** mon_tones specifies whether, during an ACD/BRCS service observe session, warning tones are:

1) not provided;
2) provided to the observed agent and observer;
3) provided to the observed agent, observer, and far party;
4) provided one time to the observed agent, observer, and far party.

**Attribute: tgid**

**Fullname:** Terminal Group Identifier

**Attribute Description** tgid is used to associate the serving team (serv_tm) with an ACD/BRCS customer. See also RLcqparm.tgid.

**Attribute: acdgrp**

**Fullname:** ACD/BRCS Group Number Identifier

**Attribute Description** This attribute identifies a "sub-terminal group" to allow customers to divide their call centers into smaller groups. This will allow different groups to exist within the same ACD/BRCS customer with the same level of security that exists between different ACD/BRCS customers.
When this attribute has a value of 1000, there are no restrictions on this serving team within its terminal group ID. RC and ODA do not currently support this "wild card" value.
See also RLcqparm.acdgrp.

**Attribute: psap**

**Fullname:** E911 Public Safety Answering Point

**Attribute Description** This attribute is used for the ACD E911 Public Safety Answering Point Special Feature to indicate if this serving team is an ACD E911 PSAP. The ACD E911 special feature is a secured feature (SFID 143). This attribute must not be set to DBYES unless the special feature has been purchased.

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# STSPTRC

## 1. Description

This relation uses the "transmitted" data to send out a 64 byte message on the STS-1 path using the J1 byte. On the receiving end of the same STS-1 path the "expected" 64 bytes of data are compared with the incoming 64 bytes of the STS-1 to ensure we are tracing the correct path.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 36 |
| expected tuples in relation | 12 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| application type | SWMTC |
| relation type | DBSTATIC |
| trigger function | TMrel_trig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
STSPTRC     relid = 2921  DBSTATIC   DBACC_HASH  DBPRAM    FP      SWMTC
     transmit    DMSTSPTRC    (array [ 62 ] of char )
     expected    DMSTSPTRC    (array [ 62 ] of char )
     name        DMCIRCUIT    (ushort) <--- key
         User, Compacted and Stored Tuple Layout    STSPTRC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                           transmit                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                           transmit                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                    .
                                    .
                                    .
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 52 |                           transmit                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 56 |                           transmit                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 60 |           transmit            |           expected            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 64 |                           expected                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 68 |                           expected                            |
```

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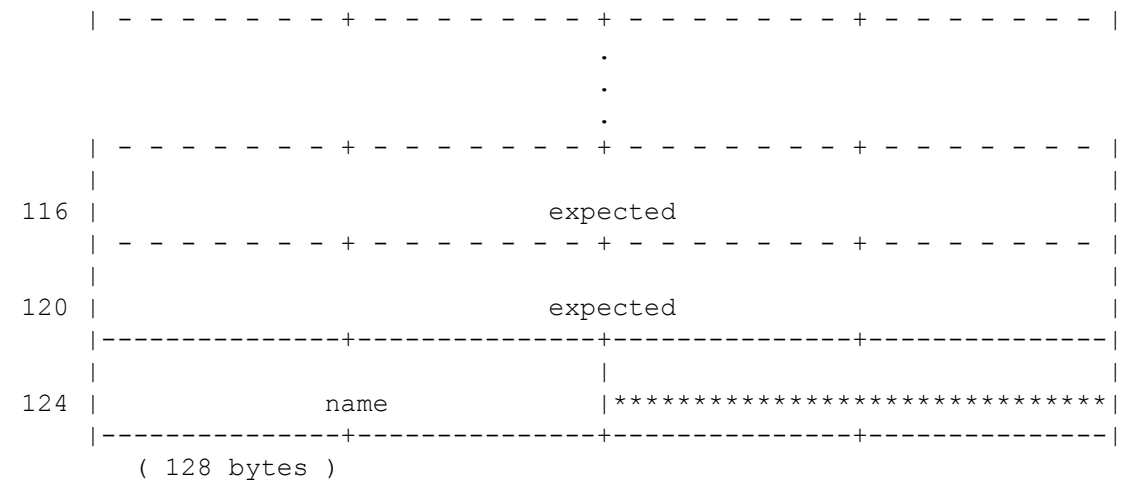


## 4. Population rules for RLstsptrc

### Relation Description

STS-1 Path Trace

This relation stores the STS-1 Path Trace string is transmitted in the STS-1 facility of either SONET interface; STSX-1 or OC-3. In addition, this relation stores the STS-1 Path trace that it expects to receive in the STS-1 facility. The STS-1 Path Trace is a 64 character string that is transmitted in the J1 byte of the STS Path Overhead. The 64 character string is comprised of 62 characters (specified by the customer) terminated by CR (Carriage Return) and LF (Line Feed) characters. The 62 character customer provisionable portion of the STS-1 Path Trace can be any printable ASCII characters and is stored in this relation. This is according to customer requirement SI-dnus_custreq-2101-4730. The 62nd and 63rd characters will be initialized to CR and LF by software at the time that the entire 64 character string will be required.

**Attribute:**
name
**Fullname:**
Circuit Name
**Attribute Description:**
This attribute is the circuit name of the STS-1 facility.

**Attribute:**
transmit
**Fullname:**
Transmitted STS-1 Path Trace
**Attribute Description:**
This attribute specifies the 62 character customer provisionable portion of STS-1 Path Trace transmitted in the STS-1 facility.

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**Attribute:**
expected
**Fullname:**
Expected STS-1 Path Trace
**Attribute Description:**
This attribute specifies the 62 character customer provisionable portion of STS-1 Path Trace expected to be received in the STS-1 facility.

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# SUBDATA

## 1. Description

This WCTX relation contains the Wireless Centrex Subscriber data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3072 |
| expected number of tuples | 1200 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution type | FP |
| relation type | DBSTATIC |
| trigger function | PCSsubtrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction | DBYES |
| spare | 64L |

## 3. Field Layout

```
SUBDATA     relid = 2232  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     wspid       DMWSPID      (ushort)
     miniprof    DMMINIPROF   (ulong: 16)
     pcs_idx     DMPCS_IDX    (ushort: 12)     <--- key
 (a) testset     DMBOOL       (enum: 1)
     tntgrpid    DMTGRPID     (ushort: 8)
     deny_svc    DMDENY       (enum: 5)
     a_key       DMUCHR8      (array [ 8 ] of unsigned char )
     tid         DMBCD_DN     (struct)
         dn0         DMUNS4       (ushort: 4)
         dn1         DMUNS4       (ushort: 4)
         dn2         DMUNS4       (ushort: 4)
         dn3         DMUNS4       (ushort: 4)
         dn4         DMUNS4       (ushort: 4)
         dn5         DMUNS4       (ushort: 4)
         dn6         DMUNS4       (ushort: 4)
         dn7         DMUNS4       (ushort: 4)
         dn8         DMUNS4       (ushort: 4)
         dn9         DMUNS4       (ushort: 4)
         dn10        DMUNS4       (ushort: 4)
         dn11        DMUNS4       (ushort: 4)
         dn12        DMUNS4       (ushort: 4)
         dn13        DMUNS4       (ushort: 4)
         dn14        DMUNS4       (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
     tn          DMDN10_BCD   (struct)
         dn0         DMBCD        (ushort: 4)
         dn1         DMBCD        (ushort: 4)
         dn2         DMBCD        (ushort: 4)
         dn3         DMBCD        (ushort: 4)
         dn4         DMBCD        (ushort: 4)
         dn5         DMBCD        (ushort: 4)
         dn6         DMBCD        (ushort: 4)
         dn7         DMBCD        (ushort: 4)
```

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```
        dn8          DMBCD        (ushort: 4)
        dn9          DMBCD        (ushort: 4)
        digcnt       DMDIGCNT     (uchar: 4)
    esn          DMULONG      (ulong)
        User, Compacted and Stored Tuple Layout    SUBDATA
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             wspid             |            miniprof           |
   |---------------+---------------+---------------+---------------|
   |                       | |     |               |         |     |
 4 |        pcs_idx        |a|*****|    tntgrpid   | deny_svc|*****|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 8 |                             a_key                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
12 |                             a_key                             |
   |===============+============= tid =============+===============|
   |       |       |       |       |       |       |       |       |
16 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |       |       |       |       |       |
20 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
   |===============+=============  tn =============+===============|
   |       |       |       |       |       |       |       |       |
24 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
   |---------------+---------------+---------------+---------------|
   |       |       |       |                                       |
28 |  dn8  |  dn9  | digcnt|***************************************|
   |===============+===============+===============+===============|
   |                                                               |
32 |                              esn                              |
   |---------------+---------------+---------------+---------------|
   |                                                               |
36 |***************************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
40 |***************************************************************|
   |---------------+---------------+---------------+---------------|
      ( 44 bytes )
```

## 4. Population Rules for RLsubdata

**Relation Description**
This  Wireless Centrex (WCTX) relation contains the Subscriber and testset data.

This relation is to assign subscriber and testset information.

**Attribute: pcs_idx**

**Fullname:** Index into the hlr data

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**Attribute Description** This relation contains subscriber data common to the Home Location Register (HLR) and Visitor Location Register (VLR)

**Attribute: esn**

**Fullname:** Electronic Serial Number

**Attribute Description** It uniquely identifies the Subscriber Unit (SU). Change to it requires the ssd_flag in relation RLpcs_hlr to be set to DBYES.

**Attribute: tid**

**Fullname:** Terminal IDentifier

**Attribute Description** It is used in conjunction with the ESN to authenticate the SU as being valid.

**Attribute: miniprof**

**Fullname:** Mini Profile.

**Attribute Description** Indicates subscribers use of three-way calling or call waiting.

**Attribute: tntgrpid**

**Fullname:** Tenant Group IDentifier.

**Attribute Description** Identifies a Tenant Group which contains a list of private registration areas.

**Attribute: wspid**

**Fullname:** WCTX Service Provider IDentifier

**Attribute Description** A SPID is an unique identifier for each service provider.

**Attribute: a_key**

**Fullname:** Authentication key.

**Attribute Description** Security key established between the network management and the SU. Change to it requires the ssd_flag in relation RLpcs_hlr to be set to DBYES.

**Attribute: tn**

**Fullname:** Telephone Number

**Attribute Description** It contains a subscriber Telephone Number (TN) or a testset TN.

**Attribute: testset**

**Fullname:** Test Set

**Attribute Description**

```
Used to mark the subscriber data as a testset.
DBYES when the TN is a testset DN.
DBNO when the TN is a subscriber DN.
```

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# SUP_MDII

## 1. Description

Contains trunk group ans suppression MDII.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 64 |
| expected tuples in relation | 0 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| application | CFH |
| relation type | DBSTATIC |

## 3. Field Layout

```
SUP_MDII    relid = 49    DBSTATIC   DBACC_HASH  DBPRAM    LPFR    CFH
     trk_grp     DMGRPNUM     (ushort)  <--- key
     mdii        DMMDII       (enum)  <--- key
 (a) suppress    DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout   SUP_MDII
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               | |             |
  0 |            trk_grp            |      mdii     |a|*************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLsup_mdii

**Relation Description**
This relation holds the MDII and trunk group number that the specified type of MDII is being suppressed for.

This relation is only populated by an input message.

**Attribute: mdii**

**Fullname:** Machine detected interoffice irregularities (MDII)

**Attribute Description** The type of MDII being suppressed for the given trunk group.

**Attribute: trk_grp**

**Fullname:** Trunk Group number

**Attribute Description** The trunk group number that MDIIs are being suppressed for.

**Attribute: suppress**

**Fullname:** MDII suppression indicator.

**Attribute Description** The status of MDII suppression for the given MDII and trunk group.

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## 2.20 RELATIONS: T

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# T1ACCESS

## 1. Description

This relation will contain the custom information display text for an associated line or range of lines for a particular PBX Billing Number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
T1ACCESS    relid = 2594  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     begline     DMUSHORT     (ushort)    <--- key
     endline     DMUSHORT     (ushort)
     pbx_npa     DMBINNPA     (ushort: 10)    <--- key
     pbx_nxx     DMBINNPA     (ushort: 10)    <--- key
     pbxtext     DMCIDTEXT    (array [ 116 ] of char )
         User, Compacted and Stored Tuple Layout   T1ACCESS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            begline            |            endline            |
    |---------------+---------------+---------------+---------------|
    |                   |           |                   |           |
  4 |      pbx_npa      |***********|      pbx_nxx      |***********|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                           pbxtext                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 12 |                           pbxtext                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
                                   .
                                   .
                                   .
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
116 |                           pbxtext                             |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
120 |                           pbxtext                             |
    |---------------+---------------+---------------+---------------|
       ( 124 bytes )
```

## 4. Population Rules for RLt1access

**Relation Description** T1.5 Access Signaling

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This relation contains the custom information display text associated with a PBX Billing Number. The PBX-specific text is displayed to an operator when a SS7 Signaled Access PBX call comes to an OSPS operator position.

**Attribute: pbx_npa**

**Fullname:** PBX NPA

**Attribute Description** This is the key for the relation. It is used to specify the NPA portion of the PBX billed number.

**Attribute: pbx_nxx**

**Fullname:** PBX NXX

**Attribute Description** This is the key for the relation. It is used to specify the NXX portion of the PBX billed number.

**Attribute: begline**

**Fullname:** Beginning Line

**Attribute Description** This is the key for the relation. It is used to specify the individual line number (that is the, XXXX portion of PBX billed number) or the beginning line number in a range of lines.

**Attribute: endline**

**Fullname:** Ending Line

**Attribute Description** This attribute is used to specify the last line number in a range of lines.

**Attribute: pbxtext**

**Fullname:** PBX Text

**Attribute Description** This is the text which is to be displayed on the VDT. It consists of up to 116 printing ASCII characters which will be displayed at the VDT as 4 lines of 29 characters each. There is no default value for this attribute; however, this attribute must contain at least one non-null character.

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# TALK_KEY

## 1. Description

CAMA operator trunk mate association.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
TALK_KEY    relid = 44    DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     talktrk     DMGPORT      (struct)  <--- key
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     keytrk      DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout   TALK_KEY
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+========== talktrk ==========+===============|
    |                                |               |               |
  0 |              member            |***************|     module    |
    |===============+==========  keytrk ==========+===============|
    |                                |               |               |
  4 |              member            |***************|     module    |
    |===============+===============+===============+===============|
       ( 8 bytes )
```

## 4. Population Rules for RLtalk_key

**Relation Description** Talking trunk to keying trunk. CAMA operator trunk mate association.

**Attribute: talktrk**

**Fullname:** Talking trunk port.
**Attribute Description** Talking trunk gport of CAMA operator trunk pair. This is used as the index into the relation. The gport should be of either FC_CP_TALKING or FC_TCI_TT class of service (see FC_TRUNK - FC_PORTTYPE). All CAMA operator trunk keying trunk gports should be represented by a tuple in this relation. This check is in RLfc_porttyp.p

**Attribute: talktrk.member**

**Fullname:** Trunk member.
**Attribute Description** Trunk member.

**Attribute: talktrk.module**

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**Fullname:** Module.
**Attribute Description** Module.

**Attribute: keytrk**

**Fullname:** Keying Trunk.
**Attribute Description** keying trunk gport of a CAMA operator trunk pair. The gport should be a port of either FC_CP_KEYING or FC_TCI_KT class of service. No duplications can exist (that is, 1-1 correspondence between keying and talking trunks). Both the keying and talking trunks of a CAMA pair must be on the same SM.

**Attribute: keytrk.member**

**Fullname:** Trunk member.
**Attribute Description** Trunk member.

**Attribute: keytrk.module**

**Fullname:** Module.
**Attribute Description** Module.

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# TATYPE

## 1. Description

This relation contains the different types of tones and announcements. It is related to RLrt_fixedri.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 1024 |
| data page size | 1024 |
| page level | 1 |
| tsbal - time space balance | DBSPEED |

## 3. Field Layout

```
TATYPE      relid = 74    DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     pctone      DMPCSIGNAL   (enum)
     tatype      DMTREAT      (enum) <--- key
 (a) toneind     DMBOOL       (enum: 1)
 (b) annind      DMBOOL       (enum: 1)
 (c) playannc    DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout TATYPE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               | | | |         |
  0 |             pctone            |     tatype    |a|b|c|*********|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population rules for RLtatype

### Relation Description

```
        Tones type.
         Types of tones and announcements.
         ATTN: The PRL check section does not include any checks
         for export population rules.
```

**Attribute:**

```
        tatype
```

**Fullname:**

```
        routing tone or announcement type.
```

**Attribute Description:**

```
        The value, FC_IV_NO_DIG, is used to indicate
        that an invalid number of digits has been
        received from the Inter-LATA carrier.  A tuple
        must exist for this key and should be populated
        to reflect the Service Provider wishes.
        The values RT_DPAT, RT_UNDEF, and RT_ACT are used
        as IDP error treatment indicators.  A tuple with
        key RT_DPAT must exist if the RLidp_gp attributes
        dpat_ertrt is IDANNOUNCE and dpat_ann is 0.  A
        tuple with RT_UNDEF must exist if the RLidp_gp
```

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```
attributes idp_ertrt is IDANNOUNCE and idp_ann is
0.  A tuple with key RT_ACT must exist if the
RLidp_act attributes ertrt is IDANNOUNCE and ann
is 0.  A tuple with either RT_DPAT, RT_UNDEF, or
RT_ACT as keys should have toneind set to DBNO
pctone set to DB_PCNULL.
    Export Note: A tatype of RT_NO_TKO indicates that, for one
                  of several reasons, it was not possible to create a
                 Trunk Offering (TKO) process to camp on a busy port.
                 This will be used as a reason in the route fail message
                 sent to the originating terminal process. For Saudi
                 Arabia it will result in the provision of a reorder
                 (congestion) tone. Only this relation need be populated.
                 For RT_NO_TKO, pctone must be set to PCREORDR for Saudi
                 Arabia.
*************************************************************
* NOTE: In 5E6, 2-LEVEL COT/AC will be using the fixed route  *
*       index type (RLtatype.tatype) of RT_ACSR.  This will  *
*       be replaced in 5E7 with the tatype of RT_2LEVEL.      *
*************************************************************
Valid Fixed Route Types, Usages and Requirements
------------------------------------------------
tatype          Usage and Requirements
------          ----------------------
CC_UIA          The Unauthorized INWATS Announcement
                provides routing to a tone or announcement for
                an 800 Service call at an Originating Screening
                Office (OSO) for INward Wide Area Telephone
                Service (INWATS).  It must point to REORDER or to
                an announcement trunk group.  The customer is
                connected to this announcement when the owner of
                the 800 number being called has not authorized
                toll free calls from the area code in which the
                call is being originated.  This fixed route type
                will be required in all Toll OSO offices for which
                destination type FCOSOIWTS is populated in
                DAPRIMDGT.  It is also required in relation
                RT_FIXEDRI.  If toneind is 'DBYES', then
                pctone should be 'PCREORDER'; otherwise, pctone
                is 'PCNULL'.
CC_NCD          Provides routing to a tone or an announcement
                for Network Call Denial.  A customer is routed
                to this announcement when a database query
                discloses that the calling number is associated
                with a delinquent AT&T-C customer.  It must
                point to an announcement trunk group.  The
                relation RT_FIXEDRI must include this fixed route
                type.  This must be populated in all Point Of
                Presence (POP) toll offices.
CC_CGC          Provides routing to a tone or announcement
                when a Circuit Group Congestion backward
                fail message is received on a CCS trunk.
                REQUIRED if the office has any RLFC_TRUNK tuple
                with in_sigtype or out_sigtype of
```

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```
                DBTUP7 or DBISUP7.
CC_NNC          Provides routing to a tone or announcement
                when a National Network (Trunk) Congestion
                message is received on a CCS trunk.
                REQUIRED if the office has any RLFC_TRUNK tuple
                with in_sigtype or out_sigtype of DBCCIS6,
                DBTUP7, or DBISUP7.
CC_SEC          Provides routing to a tone or announcement
                when a Switching Equipment Congestion backward
                fail message is received on a CCS trunk.
                REQUIRED if the office has any RLFC_TRUNK tuple
                with in_sigtype or out_sigtype of DBCCIS6,
                DBTUP7, or DBISUP7.
CC_SSI          Provides routing to a tone or announcement
                when a Send Special Information Tone backward
                fail message is received on a CCS trunk.
                REQUIRED if the office has any RLFC_TRUNK tuple
                with in_sigtype or out_sigtype of
                DBTUP7 or DBISUP7.
FC_EASMRT       Provides routing to a tone or an announcement
                for Equal Access Signaling calls misrouted to
                a Toll (AT&T-C) switch from an end office or
                access tandem (calls with unexpected information
                digits and Customer Interactive Dialing calls).
                It must point to an announcement trunk group. The
                relation RT_FIXEDRI must include this fixed route
                type.  This must be populated in all Point of
                Presence (POP) toll offices.
TMTSTTK         Provides routing to first available member
                of a FIFO hunted trunk group containing
                outgoing LTD test trunk circuits.  Used
                for line originated LTD call.
                Refer to LTD population rules section.
RT_NSANNC        Provides routing to a tone or an announcement
                   for PVN announcements given by the DSU2-RAF-DTA.
                   Dependencies:
                     if (Glpvn_ofc equals DBPVN_SSP) then
                        begin
                          for every tuple in RLtatype
                            begin
                              find exactly one tuple in RLtatype
                              where  (RLtatype.tatype equals RT_NSANNC)
                            end;
                        end;
                   for every tuple in RLtatype
                     begin
                       if (RLtatype.tatype is_equal_to RT_NSANNC) then
                         begin
                           Glpvn_ofc must_be DBPVN_SSP and
                           RLtatype.toneind must_be DBNO and
                           RLtatype.annind must_be DBNO and
                           RLtatype.pctone must_be DB_PCNULL
                         end;
                       end;
```

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```
                    for every tuple in RLtatype
                      begin
                        if (RLtatype.tatype equals RT_NSANNC) then
                          begin
                            for every tuple in RLrt_fixedri
                              begin
                               must find exactly 1 tuple in RLrt_fixedri
                               where (RLtatype.tatype is_equal_to
                                      RLrt_fixedri.ritype)
                              end;
                          end;
                      end;
RT_TOLL_ACCT    Provides routing to a 5E Toll Account Code SAS
                dial-through-announcement (NOTE: Not DSU2-RAF).
                This will route to an idle SAS port from a trunk
                group defined in the RLrt_trkg relation. The
                RLrt_trkg.type must equal RT_RAF for SAS.
RT_SCD             Provides routing to a tone or an announcement
                     for calls blocked by Selective Carrier Denial
                screening.
                     Checks:
                     must find exactly one tuple in RLtatype
                       where (RLtatype.tatype equals RT_SCD);
                when found
                     begin
                    if (Rltatype.toneind equals DBNO) then
                    begin
                             RLtatype.annind must_equal DBNO;
                             RLtatype.pctone must_equal DB_PCNULL;
                        must find exactly one tuple in RLrt_fixedri
                             where (RLtatype.tatype equals
                                    RLrt_fixedri.ritype);
                             when found
                           begin
                               RLrt_fixedri.noc must_equal 0;
                             end;
                         end;
                     end;
RT_ACT_PROCERR  Provides routing to an announcement
                when the Unidentified Call Rejection (UCR)
                activation code is dialed.
RT_DEAC_PROCER  Provides routing to an announcement
                when the Unidentified Call Rejection (UCR)
                deactivation code is dialed.
RT_DENY_ORIG    Used for the Secured feature, Unidentified Call
                Rejection(UCR). Provides routing to an
                announcement for UCR announcements given by
                13A/14A announcement interface. This value is only
                populated if the UCR Feature has been purchased.
RT_INVCAC       Provides Error treatment when the user has dialed
                an invalid Carrier Access Code (CAC). The user
                dialed 10XXX in an office that only supports
                101XXXX dialing in the Feature Group D POST
                PERMISSIVE phase.
```

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```
RT_REVRBANN     Provides routing to a tone or announcement
                when an originator is going to be rung
                back due to Multi-Party Revertive Ringing.
                This is part of the REA Revertive
                Announcement Feature, and is available
                with 5E9 and later Software Releases.
                Checks:
                   RLtatype.annind must_equal DBNO;
                   if (Rltatype.toneind equals DBNO) then
                   begin
                           RLtatype.pctone must_equal DB_PCNULL;
                   end;
                   must find exactly one tuple in RLrt_fixedri
                   where ((RLrt_fixedri.ritype equals RLtatype.tatype)
                      and (RLrt_fixedri.noc equals 0));
RT_REVOHANN     Provides routing to a tone or announcement
                when a multi-party line goes offhook after
                being rung back due to Multi-Party Revertive
                Ringing.  This is part of the REA
                Revertive Announcement Feature, and is
                available with 5E9 and later Software
                Releases.
                Checks:
                   RLtatype.annind must_equal DBNO;
                   if (Rltatype.toneind equals DBNO) then
                   begin
                           RLtatype.pctone must_equal DB_PCNULL;
                   end;
                   must find exactly one tuple in RLrt_fixedri
                   where ((RLrt_fixedri.ritype equals RLtatype.tatype)
                      and (RLrt_fixedri.noc equals 0));
RT_CWDBUSY      Provides routing for the Call Waiting Deluxe (CWD)
                Special Feature using CWD BUSY Announcement given by
                13A or 14A. This will route to an idle port from a
                trunk group defined in the RLrt_trkg relation.
RT_CWDHOLD      Provides routing for the Call Waiting Deluxe (CWD)
                Special Feature using CWD HOLD Announcement given by
                13A or 14A. This will route to an idle port from a
                trunk group defined in the RLrt_trkg relation.
RT_DFLTRT       Provides routing to announcement for
                Special Feature ASP Default Routing for
                3/6/10-Digit Triggers.
                The exact treatment will be provided by the
                TCA, but it is expected that they would be
                routed to an announcement provided by the 13A
                announcement unit.  The tuple for RT_DFLTRT will
                point to a route index which in turn will point
                to trunk group containing the announcement trunk
                port.  Required when 'dfltrt' attribute is set to
                DFLT_ANNC in RLDAPRMFNL or RLDAPRLFNL.
RT_CWDREMDR     Provides routing for the Call Waiting Deluxe
                (CWD) Special Feature using CWD REMINDER
                Announcement given by 13A or 14A.  This will
                route to an idle port from a trunk group
```

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```
                defined in the RLrt_trkg relation.
        RT_CWDDFANC     Provides routing for the Call Waiting Deluxe (CWD)
                        Special Feature using CWD DEFAULT
                        Announcement given by 13A or 14A.  This will
                        route to an idle port from a trunk group
                        defined in the RLrt_trkg relation.
```

**Attribute:**
toneind
**Fullname:**
Tone applied boolean.
**Attribute Description:**
DBYES: tone applied: value of annind must be DBNO.
DBNO: tone not applied. See additional population rules.

**Attribute:**
annind
**Fullname:**
announcement boolean.
**Attribute Description:**
DBYES: announcement applied: value of toneind must be DBNO.
DBNO: announcement not applied. See additional population rules.
Not used by Domestic -- default to DBNO.

**Attribute:**
playannc
**Fullname:**
Play an announcement.
**Attribute Description:**

```
        **********************************************************************
        ADDED FOR K4.0 IN NEW POPGEN FORMAT  (k7104)
        **********************************************************************
                This attribute indicates whether a tone/announcement
                should be played on an ISUP7 trunk which is crossing
                a network boundary.
                DBYES - indicates the announcement should be played.
                DBNO  - means the announcement will not be played and
                        the corresponding cause value will be sent in
                        an ISUP7 REL message to the next office.
                The corresponding cause values for Unauthorized INWATS
                or Network Call Denial should never be passed across
                network boundaries.
                ******************************************************
                *  The following note is not recent change enforceable *
                *  but is an ODA recommendation for populating offices *
                *                                                      *
                *  Note:                                               *
                *       This attribute only has effect when            *
                *       crossing a network boundary (servclass is      *
                *       FC_LATA_CONN ).                                *
```

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**********

**Attribute:**
pctone
**Fullname:**
What tone is applied?
**Attribute Description:**
Tone indicator.

**Defines:**
"db/DMtreat.h"

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# TC_LTP

## 1. Description

Count of test calls (TC) logical test port (LTP) resources available on a per SM basis.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| expected tuples in relation | 40 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |

## 3. Field Layout

```
TC_LTP      relid = 2157  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCDATA
     servclass   DMSERVCLASS  (enum)  <--- key
     sm          DMMODULE     (ushort: 8)  <--- key
     ltp_cnt     DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout TC_LTP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  0 |   servclass   |       sm      |    ltp_cnt    |***************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLtc_ltp

**Relation Description** Test Calls Logical Test Port Counts relation.

This relation provides the number of logical test ports for test calls on a per SM and service class basis. Thus the number of tuples populated in RLfc_porttype, RLgroup_port and RLport_group relation for the logical test port types on an SM must be equal to the counts in the RLtc_ltp relation.

**Attribute: sm**

**Fullname:** Switching Module

**Attribute Description** SM number which provides the test call logical test ports.

**Attribute: servclass**

**Fullname:** Class of Service

**Attribute Description** Test Call service classes.

**Attribute: ltp_cnt**

**Fullname:** Logical Test Port count

**Attribute Description** Value of this attribute provides the number of test call logical test port available on a per SM and service class basis.

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# TCCID

## 1. Description

This relation contains the telephone credit card (TCR) issuer ID digits, 2-7 digits. If the number of digits in the key is not adequate to determine the issuer, nxtkey will indicate the number of digits to try next. If number of digits in the key is sufficient to determine the issuer, the number of digits in the TCR issuer identification number, the TCR account number, the TCR check number outside account number, and the TCR PIN number fields will be filled in.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
TCCID       relid = 1931  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     isstxt      DMCHAR6      (array [ 6 ] of char )
     oaff3       DMUSHORT     (ushort)
     oaff5       DMUSHORT     (ushort)
     issiddgt    DMCHAR7      (array [ 7 ] of char ) <--- key
     country     DMCHAR3      (array [ 3 ] of char )
     trans_type  DMTRANSTYP   (ushort: 8)
     csr_attr_id  DMUNS8       (ushort: 8)
     carrgrp     DMUNS8       (ushort: 8)
     oaff2       DMUNS8       (ushort: 8)
     oaff4       DMUNS8       (ushort: 8)
     cardtype    DMUNS7       (ushort: 7)
 (a) oaff1       DMBOOL       (enum: 1)
     crd_attr    DMCRDATR     (ushort: 6)
     iccvdbn     DMUNS5       (ushort: 5)
 (b) accnmdgt    DMUNS4       (ushort: 4)
 (c) home_call   DMBOOL       (enum: 1)
 (d) pinnmdgt    DMUNS4       (ushort: 4)
 (e) nxtkey      DMUNS3       (ushort: 3)
 (f) issnmdgt    DMUNS3       (ushort: 3)
 (g) lang_val    DMUNS3       (ushort: 3)
 (h) disposable  DMBOOL       (enum: 1)
 (i) exp_date    DMBOOL       (enum: 1)
 (j) quietheartrmt  DMBOOL       (enum: 1)
 (k) vmselig     DMBOOL       (enum: 1)
 (l) issid_alw   DMBOOL       (enum: 1)
 (m) addoncardtrmt  DMBOOL       (enum: 1)
 (n) oaff6       DMBOOL       (enum: 1)
 (o) oaff7       DMBOOL       (enum: 1)
 (p) oaff8       DMBOOL       (enum: 1)
 (q) chknmdgt    DMUNS1       (ushort: 1)
        User, Compacted and Stored Tuple Layout  TCCID
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |--------------+--------------+--------------+--------------|
   |                                                            |
 0 |                            isstxt                          |
```

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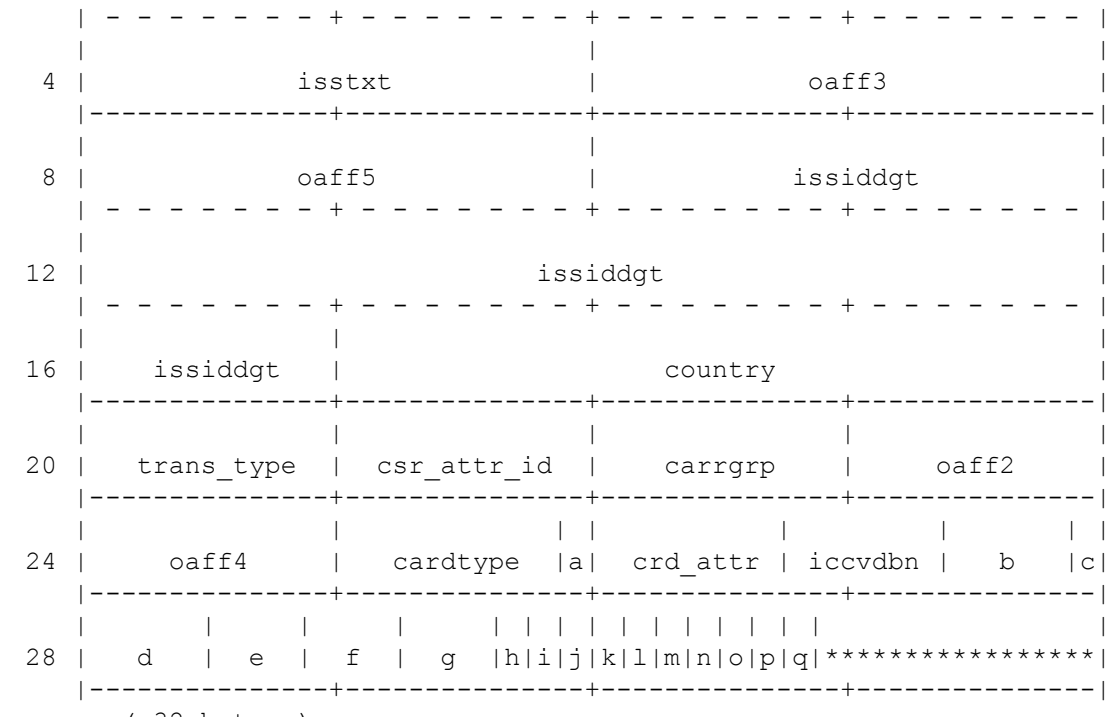


## 4. Population rules for RLtccid

### Relation Description

Telephone Credit Card Identification Table
Telephone Credit Card Identification Table.
This table is used to identify a calling card
using the first 2 - 7 digits of the
TCR issuer identification number.
The nxtkey attribute specifies the number of digits which must be
used in the key of this relation to identify the card. If nxtkey
is zero, then the card can be identified with the number of digits
used in the current key.
This relation is populated for domestic generics only.
Engineering Information:
Maximum # Tuples: 3000
Average # Tuples: 300

**Attribute:**
issiddgt
**Fullname:**
Card Issuer Identification Number
**Attribute Description:**
Identifies the first 2-7 digits entered in the card issuer
identification field.

**Attribute:**
nxtkey

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**Fullname:**
Next key size
**Attribute Description:**
If more digits are needed to identify a calling card, the nxtkey attribute is used to identify the next size key to be referenced.

**Attribute:**
issnmdgt
**Fullname:**
Number of digits for issuer identification.
**Attribute Description:**
Identifies the number of digits entered in the issuer id field

**Attribute:**
accnmdgt
**Fullname:**
Number of digits for account number
**Attribute Description:**
Identifies the number of digits entered in the account number field.

**Attribute:**
chknmdgt
**Fullname:**
Number of digits for check number
**Attribute Description:**
Identifies the number of digits entered in the check number field.

**Attribute:**
pinnmdgt
**Fullname:**
Number of digits for Personal Identification Number (PIN).
**Attribute Description:**
Identifies the number of digits entered in the Personal Identification Number (PIN) field.
NOTE: Currently the maximum length of the PIN is 13 digits. If this number changes, the following check must be enforced:
The length of number of digits in issuer id plus acct nbr plus check number plus pin cannot be greater than 32.
(RLtccid.issnmdgt + RLtccid.accnmdgt + RLtccid.chknmdgt
+ RLtccid.pinnmdgt must_not_be_greater_than 32)

**Attribute:**
trans_type
**Fullname:**
Translation type
**Attribute Description:**
A query is sent from the 5ESS(R)-2000 switch along the network to a No. 2 Signal Transfer Point (2STP). The 2STP uses the

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translation type found in the query it received and using internal tables found in the 2STP figures out the proper database to route the query to. The translation type is used during global title translation to map the global title field of the query [card number] into the query destination address.

**Attribute:**
crd_attr
**Fullname:**
Card Attribute Key
**Attribute Description:**
Key into relation RLcrd_attr

**Attribute:**
csr_attr_id
**Fullname:**
Carrier Specific Routing Attribute ID
**Attribute Description:**
Key into relation RLcsr_attr

**Attribute:**
country
**Fullname:**
Country Identifier
**Attribute Description:**
Identifies country of the card issuer.

**Attribute:**
iccvdbn
**Fullname:**
ICCV Database Number
**Attribute Description:**
Used as key into RLiccvdb to retrieve software alarm information.

**Attribute:**
lang_val
**Fullname:**
Language Value
**Attribute Description:**
Identifies issuer language for card announcements.

**Attribute:**
home_call
**Fullname:**
Home call

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**Attribute Description:**
If this is an ICCV card, indicates whether home country calls are allowed by this card issuer.

**Attribute:**
oaff1
**Fullname:**
Spare 1
**Attribute Description:**
Spare field for special feature.

**Attribute:**
cardtype
**Fullname:**
Card Type
**Attribute Description:**
Card type for this card.

**Attribute:**
disposable
**Fullname:**
Disposable card
**Attribute Description:**
Indicates whether this card is a disposable card, that is, one with a preset balance that is decremented as used and no longer usable once the balance is completely depleted.

**Attribute:**
carrgrp
**Fullname:**
Carrier Group ID
**Attribute Description:**
Identification number for the group of carriers which accept this card. Zero means all carriers accept this card.

**Attribute:**
oaff2
**Fullname:**
Spare 2
**Attribute Description:**
Spare field for fast features.

**Attribute:**
isstxt
**Fullname:**
Issuer ID text
**Attribute Description:**

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This is the issuer ID text to be displayed on the operator position by the ACCS for CCC feature.

**Attribute:**
exp_date
**Fullname:**
Expiration date handling specifier
**Attribute Description:**
This specifies whether the card is to be given expiration date treatment or PIN treatment.

**Attribute:**
quietheartrmt
**Fullname:**
Quiet Hear Treatment
**Attribute Description:**
This field is used for the QUIET HEAR TRMT field, which is the Quiet Hear treatment eligibility parameter used to control the application of Quiet Hear based on the entry for a non-LEC card's Issuer Identifier as defined in the OSPS Card Recognition table.

**Attribute:**
vmselig
**Fullname:**
VMS eligible
**Attribute Description:**
This field is the VMS ELIGIBLE field, which indicates whether this card is eligible for VMS treatment.

**Attribute:**
issid_alw
**Fullname:**
DA Call Completion Allowed
**Attribute Description:**
Indicates whether the card's Issuer Identification is eligible for CICADA call completion.

**Attribute:**
oaff3
**Fullname:**
Spare 3
**Attribute Description:**
Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

**Attribute:**

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oaff4

**Fullname:**

Spare 4

**Attribute Description:**

Spare field for fast features.

**Attribute:**

addoncardtrmt

**Fullname:**

Add-On card treatment eligibility indicator

**Attribute Description:**

This attribute specifies whether the card's issuer identifier is eligible for add-on card treatment.

**Attribute:**

oaff5

**Fullname:**

Spare 5

**Attribute Description:**

Spare field for fast features.

**Attribute:**

oaff6

**Fullname:**

Spare 6

**Attribute Description:**

Spare field for fast features.

**Attribute:**

oaff7

**Fullname:**

Spare 7

**Attribute Description:**

Spare field for fast features.

**Attribute:**

oaff8

**Fullname:**

Spare 8

**Attribute Description:**

Spare field for fast features.

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# TCPIPDB

## 1. Description

This relation contains TCP information for IP routing. This relation is used to determine the IP destination address for an application and number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 16 |
| expected tuplers | 4 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| relation type | DBSTATIC |
| application | TCPIP |
| trigger function | TPttcpipdb |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
TCPIPDB     relid = 32    DBSTATIC   DBACC_HASH  DBPRAM    LPFR    TCPIP
     orig_sm      DMMODULE     (ushort: 8)
     number       DMTPNUM      (ushort: 4)    <--- key
 (a) appl_type    DMTPTYPE     (enum: 3)    <--- key
     dest_ipaddr  DMTCPADDR    (ulong)
         User, Compacted and Stored Tuple Layout    TCPIPDB
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |       |     |                                 |
  0 |    orig_sm    | number|  a  |*********************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                          dest_ipaddr                          |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLtcpipdb

### Relation Description

TCPIP Information
This relation contains TCP information for IP routing.
The relation is used to determine the IP destination address
for an application and number.

**Attribute:**

appl_type

**Fullname:**

Application type

**Attribute Description:**

This attribute contains the application type using the port.

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**Attribute:**
number
**Fullname:**
Number of specific application type
**Attribute Description:**
This attribute contains the number of the specific application type.

**Attribute:**
dest_ipaddr
**Fullname:**
Destination IP address
**Attribute Description:**
This attribute contains the destination IP address.

**Attribute:**
orig_sm
**Fullname:**
Originating SM
**Attribute Description:**
This attribute designates the dedicated SM that the TCPIP links are connected to. These links handle the TCP/IPmessage handling.

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# TCR_F2DV

## 1. Description

This relation identifies a telephone credit card (TCR) by using the first two digits of TCR issuer identification number. TCR stands for telephone credit card other than 14-digit LEC card. If the first two digits indicates more digits are needed to determine a TCR card, it will point to the next table tcr_f3dv, tcr_f4dv, tcr_f5dv, tcr_f6dv, or tcr_f7dv. If first two digits are sufficient to determine as a TCR card, it will give the number of digits in the TCR issuer identification number, the TCR account number, the TCR check number outside account number and the TCR PIN number fields.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
TCR_F2DV    relid = 1474  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     issid2dgt   DMCTXT2      (array [ 2 ] of char )  <--- key
     country     DMCHAR3      (array [ 3 ] of char )
     trans_type  DMTRANSTYP   (ushort: 8)
     csr_attr_id  DMUNS8       (ushort: 8)
     crd_attr    DMCRDATR     (ushort: 6)
 (a) issnmdgt    DMUNS2       (ushort: 2)
     iccvdbn     DMUNS5       (ushort: 5)
 (b) accnmdgt    DMUNS4       (ushort: 4)
 (c) pinnmdgt    DMUNS4       (ushort: 4)
 (d) nxttbl      DMUNS3       (ushort: 3)
     spare       DMUNS4       (ushort: 4)
 (e) lang_val    DMUNS3       (ushort: 3)
 (f) chknmdgt    DMUNS1       (ushort: 1)
        User, Compacted and Stored Tuple Layout   TCR_F2DV
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |           issid2dgt           |            country            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |               |               |               |           |   |
 4 |    country    |   trans_type  |  csr_attr_id  |  crd_attr | a |
   |---------------+---------------+---------------+---------------|
   |         |       |       |     |       |     | |               |
 8 | iccvdbn |   b   |   c   |  d  | spare |  e  |f|***************|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population Rules for RLtcr_f2dv

**Relation Description** Telephone credit card identification - 2 digit table. This table is now a spare relation. No ODA or RC requirements exist for it.

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**Attribute: issid2dgt**
**Fullname:** Card Issuer Identification Number - First 2 Digits
**Attribute Description** Spare

**Attribute: nxttbl**
**Fullname:** Next table pointer
**Attribute Description** Spare

**Attribute: issnmdgt**
**Fullname:** Number of digits for issuer identification.
**Attribute Description** Spare

**Attribute: accnmdgt**
**Fullname:** Number of digits for account number
**Attribute Description** Spare

**Attribute: chknmdgt**
**Fullname:** Number of digits for check number
**Attribute Description** Spare

**Attribute: pinnmdgt**
**Fullname:** Number of digits for personal identification number (PIN).
**Attribute Description** Spare

**Attribute: trans_type**
**Fullname:** Translation type
**Attribute Description** Spare

**Attribute: crd_attr**
**Fullname:** Card Attribute Key
**Attribute Description** Spare

**Attribute: csr_attr_id**
**Fullname:** Carrier Specific Routing Attribute ID
**Attribute Description** Spare

**Attribute: country**
**Fullname:** Country Identifier
**Attribute Description** Spare

**Attribute: iccvdbn**
**Fullname:** ICCV Database Number
**Attribute Description** Spare

**Attribute: lang_val**
**Fullname:** Language Value
**Attribute Description** Spare

**Attribute: spare**
**Fullname:** Spare
**Attribute Description** Spare field for fast features. For all features, use the space from this field before increasing the tuple size of this relation.

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# TCR_F3DV

## 1. Description

This relation identifies a telephone credit card (TCR) by using the first three digits of TCR issuer identification number. TCR stands for telephone credit card other than 14-digit LEC card. If it is not in this table, it must be a 14-digit LEC card. Even if the table indicates a TCR card and the customer enters only 14 digits, it will be considered as a 14-digit LEC card. If the first three digits indicates more digits are needed to determine as a TCR card, it will be point to the next table tcr_f4dv, tcr_f5dv, tcr_f6dv, or tcr_f7dv. If first three digits are sufficient to determine as a TCR card, it will give the number of digits in the TCR issuer identification number, the TCR account number, the TCR check number outside account number and the TCR personal identification number (PIN) number fields.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
TCR_F3DV    relid = 1184  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     issid3dgt   DMCHAR3      (array [ 3 ] of char )  <--- key
     country     DMCHAR3      (array [ 3 ] of char )
     trans_type  DMTRANSTYP   (ushort: 8)
     csr_attr_id  DMUNS8       (ushort: 8)
     crd_attr    DMCRDATR     (ushort: 6)
     iccvdbn     DMUNS5       (ushort: 5)
 (a) accnmdgt    DMUNS4       (ushort: 4)
 (b) chknmdgt    DMUNS1       (ushort: 1)
 (c) pinnmdgt    DMUNS4       (ushort: 4)
     spare       DMUNS4       (ushort: 4)
 (d) nxttbl      DMUNS3       (ushort: 3)
 (e) lang_val    DMUNS3       (ushort: 3)
 (f) issnmdgt    DMUNS2       (ushort: 2)
        User, Compacted and Stored Tuple Layout   TCR_F3DV
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                               |               |
 0 |                   issid3dgt                   |    country    |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |               |               |
 4 |            country            |   trans_type  |  csr_attr_id  |
   |---------------+---------------+---------------+---------------|
   |           |         |       | |       |       |     |     |   |
 8 |  crd_attr | iccvdbn |   a   |b|   c   | spare |  d  |  e  | f |
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population Rules for RLtcr_f3dv

**Relation Description** Telephone credit card identification - 3 digit table. This table is now a spare relation. No

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ODA or RC requirements exist for it.

**Attribute: issid3dgt**
**Fullname:** Card Issuer Identification Number - First 3 Digits
**Attribute Description** Spare

**Attribute: nxttbl**
**Fullname:** Next table pointer
**Attribute Description** Spare

**Attribute: issnmdgt**
**Fullname:** Number of digits for issuer identification.
**Attribute Description** Spare

**Attribute: accnmdgt**
**Fullname:** Number of digits for account number.
**Attribute Description** Spare

**Attribute: chknmdgt**
**Fullname:** Number of digits for check number
**Attribute Description** Spare

**Attribute: pinnmdgt**
**Fullname:** Number of digits for personal identification number (PIN).
**Attribute Description** Spare

**Attribute: trans_type**
**Fullname:** Translation type
**Attribute Description** Spare

**Attribute: crd_attr**
**Fullname:** Card Attribute Key
**Attribute Description** Spare

**Attribute: csr_attr_id**
**Fullname:** Carrier Specific Routing Attribute ID
**Attribute Description** Spare

**Attribute: country**
**Fullname:** Country Identifier.
**Attribute Description** Spare

**Attribute: iccvdbn**
**Fullname:** ICCV Database Number
**Attribute Description** Spare

**Attribute: lang_val**
**Fullname:** Language Value
**Attribute Description** Spare

**Attribute: spare**
**Fullname:** Spare
**Attribute Description** Spare field for fast features. For all features, use the space from this field before increasing the tuple size of this relation.

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# TCR_F4DV

## 1. Description

This relation identifies a telephone credit card (TCR) card by using the first four digits of TCR issuer identification number. Even if the table indicates a TCR card and the customer enters only 14 digits, it will be considered as a 14-digit LEC card. If the first four digits indicates more digits are needed to determine as a TCR card, it will be point to the next table tcr_f5dv, tcr_f6dv, or tcr_f7dv. If first four digits are sufficient to determine as a TCR card, it will give the number of digits in the TCR issuer identification number, the TCR account number, the TCR check number and the TCR personal identification number (PIN) number fields.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
TCR_F4DV    relid = 1183  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     issid4dgt   DMCHAR4      (array [ 4 ] of char )  <--- key
     country     DMCHAR3      (array [ 3 ] of char )
     trans_type  DMTRANSTYP   (ushort: 8)
     csr_attr_id  DMUNS8       (ushort: 8)
     crd_attr    DMCRDATR     (ushort: 6)
 (a) chknmdgt    DMUNS1       (ushort: 1)
     iccvdbn     DMUNS5       (ushort: 5)
 (b) accnmdgt    DMUNS4       (ushort: 4)
 (c) pinnmdgt    DMUNS4       (ushort: 4)
 (d) nxttbl      DMUNS3       (ushort: 3)
     spare       DMUNS4       (ushort: 4)
 (e) issnmdgt    DMUNS3       (ushort: 3)
 (f) lang_val    DMUNS3       (ushort: 3)
        User, Compacted and Stored Tuple Layout   TCR_F4DV
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                           issid4dgt                           |
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  4 |                    country                    |   trans_type  |
    |---------------+---------------+---------------+---------------|
    |               |           | | |         |       |       |     |
  8 |  csr_attr_id  |  crd_attr |a|*| iccvdbn |   b   |   c   |  d  |
    |---------------+---------------+---------------+---------------|
    |       |     |     |                                           |
 12 | spare |  e  |  f  |*******************************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLtcr_f4dv

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**Relation Description** Telephone credit card identification - 4 digit table. This table is now a spare relation. No ODA or RC requirements exist for this relation.

**Attribute: issid4dgt**
**Fullname:** Card Issuer Identification Number - First 4 Digits
**Attribute Description** Spare

**Attribute: nxttbl**
**Fullname:** Next table pointer
**Attribute Description** Spare

**Attribute: issnmdgt**
**Fullname:** Number of digits for issuer identification.
**Attribute Description** Spare

**Attribute: accnmdgt**
**Fullname:** Number of digits for account number
**Attribute Description** Spare

**Attribute: chknmdgt**
**Fullname:** Number of digits for check number
**Attribute Description** Spare

**Attribute: pinnmdgt**
**Fullname:** Number of digits for personal identification number (PIN)
**Attribute Description** Spare

**Attribute: trans_type**
**Fullname:** Translation type
**Attribute Description** Spare

**Attribute: crd_attr**
**Fullname:** Card Attribute Key
**Attribute Description** Spare

**Attribute: csr_attr_id**
**Fullname:** Carrier Specific Routing Attribute ID
**Attribute Description** Spare

**Attribute: country**
**Fullname:** Country Identifier
**Attribute Description** Spare

**Attribute: iccvdbn**
**Fullname:** ICCV Database Number
**Attribute Description** Spare

**Attribute: lang_val**
**Fullname:** Language Value
**Attribute Description** Spare

**Attribute: spare**
**Fullname:** Spare
**Attribute Description** Spare field for fast features. For all features, use the space from this field before increasing the tuple size of this relation.

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# TCR_F5DV

## 1. Description

This relation identifies a telephone credit card (TCR) card by using the first five digits of TCR issuer identification number. Even if the table indicates a TCR card and the customer enters only 14 digits, it will be considered as a 14-digit LEC card. If the first five digits indicates more digits are needed to determine as a TCR card, it will be point to the next table tcr_f6dv, or tcr_f7dv. If first five digits are sufficient to determine as a TCR card, it will give the number of digits in the TCR issuer identification number, the TCR account number, the TCR check number and the TCR personal identification number (PIN) number fields.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| foldtype | DBGC31 |

## 3. Field Layout

```
TCR_F5DV    relid = 1182  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     issid5dgt   DMCHAR5      (array [ 5 ] of char )  <--- key
     country     DMCHAR3      (array [ 3 ] of char )
     trans_type  DMTRANSTYP   (ushort: 8)
     csr_attr_id  DMUNS8       (ushort: 8)
     crd_attr    DMCRDATR     (ushort: 6)
     iccvdbn     DMUNS5       (ushort: 5)
 (a) accnmdgt    DMUNS4       (ushort: 4)
 (b) chknmdgt    DMUNS1       (ushort: 1)
 (c) pinnmdgt    DMUNS4       (ushort: 4)
     spare       DMUNS4       (ushort: 4)
 (d) nxttbl      DMUNS3       (ushort: 3)
 (e) issnmdgt    DMUNS3       (ushort: 3)
 (f) lang_val    DMUNS3       (ushort: 3)
        User, Compacted and Stored Tuple Layout   TCR_F5DV
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                          issid5dgt                            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |               |                                               |
 4 |   issid5dgt   |                   country                     |
   |---------------+---------------+---------------+---------------|
   |               |               |           |         |       | |
 8 |   trans_type  |  csr_attr_id  |  crd_attr | iccvdbn |   a   |b|
   |---------------+---------------+---------------+---------------|
   |       |       |     |     |   |     |                         |
12 |   c   | spare |  d  |  e  |***|  f  |*************************|
   |---------------+---------------+---------------+---------------|
      ( 16 bytes )
```

## 4. Population Rules for RLtcr_f5dv

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**Relation Description** Telephone credit card identification - 5 digit table. This table is now a spare relation. No ODA or RC requirements exist for this relation.

**Attribute: issid5dgt**
**Fullname:** Card Issuer Identification Number - First 5 Digits
**Attribute Description** Spare

**Attribute: nxttbl**
**Fullname:** Next table pointer
**Attribute Description** Spare

**Attribute: issnmdgt**
**Fullname:** Number of digits for issuer identification
**Attribute Description** Spare

**Attribute: accnmdgt**
**Fullname:** Number of digits for account number
**Attribute Description** Spare

**Attribute: chknmdgt**
**Fullname:** Number of digits for check number
**Attribute Description** Spare

**Attribute: pinnmdgt**
**Fullname:** Number of digits for personal identification number (PIN)
**Attribute Description** Spare

**Attribute: trans_type**
**Fullname:** Translation Type
**Attribute Description** Spare

**Attribute: crd_attr**
**Fullname:** Card Attribute Key
**Attribute Description** Spare

**Attribute: csr_attr_id**
**Fullname:** Carrier Specific Routing Attribute ID
**Attribute Description** Spare

**Attribute: country**
**Fullname:** Country Identifier
**Attribute Description** Spare

**Attribute: iccvdbn**
**Fullname:** ICCV Database Number
**Attribute Description** Spare

**Attribute: lang_val**
**Fullname:** Language Value
**Attribute Description** Spare

**Attribute: spare**
**Fullname:** Spare
**Attribute Description** Spare field for fast features. For all features, use the space from this field before increasing the tuple size of this relation.

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# TCR_F6DV

## 1. Description

This relation identifies a telephone credit card (TCR) card by using the first six digits of TCR issuer identification number. TCR stands for telephone credit card other than 14-digit LEC card. Even if the table indicates a TCR card and the customer enters only 14 digits, it will be considered as a 14-digit LEC card. If the first six digits indicates more digits are needed to determine as a TCR card, it will be point to the next table tcr_f7dv. If first six digits are sufficient to determine as a TCR card, it will give the number of digits in the TCR issuer identification number, the TCR account number, the TCR check number and the TCR personal identification number (PIN) number fields.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
TCR_F6DV    relid = 1181  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     issid6dgt   DMCHAR6      (array [ 6 ] of char )  <--- key
     country     DMCHAR3      (array [ 3 ] of char )
     trans_type  DMTRANSTYP   (ushort: 8)
     csr_attr_id  DMUNS8       (ushort: 8)
     crd_attr    DMCRDATR     (ushort: 6)
 (a) chknmdgt    DMUNS1       (ushort: 1)
     iccvdbn     DMUNS5       (ushort: 5)
 (b) accnmdgt    DMUNS4       (ushort: 4)
 (c) pinnmdgt    DMUNS4       (ushort: 4)
 (d) nxttbl      DMUNS3       (ushort: 3)
     spare       DMUNS4       (ushort: 4)
 (e) issnmdgt    DMUNS3       (ushort: 3)
 (f) lang_val    DMUNS3       (ushort: 3)
        User, Compacted and Stored Tuple Layout   TCR_F6DV
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                          issid6dgt                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  4 |           issid6dgt           |            country            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |               |               |               |           | | |
  8 |    country    |   trans_type  |  csr_attr_id  |  crd_attr |a|*|
    |---------------+---------------+---------------+---------------|
    |         |       |       |     |       |     |     |           |
 12 | iccvdbn |   b   |   c   |  d  | spare |  e  |  f  |***********|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLtcr_f6dv

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**Relation Description** Telephone credit card identification - 6 digit table. This table is now a spare relation. No ODA or RC requirements exist for this relation.

**Attribute: issid6dgt**
**Fullname:** Card Issuer Identification Number - First 6 Digits
**Attribute Description** Spare

**Attribute: nxttbl**
**Fullname:** Next table pointer
**Attribute Description** Spare

**Attribute: issnmdgt**
**Fullname:** Number of digits for issuer identification.
**Attribute Description** Spare

**Attribute: accnmdgt**
**Fullname:** Number of digits for account number
**Attribute Description** Spare

**Attribute: chknmdgt**
**Fullname:** Number of digits for check number
**Attribute Description** Spare

**Attribute: pinnmdgt**
**Fullname:** Number of digits for personal identification number (PIN)
**Attribute Description** Spare

**Attribute: trans_type**
**Fullname:** Translation type
**Attribute Description** Spare

**Attribute: crd_attr**
**Fullname:** Card Attribute Key
**Attribute Description** Spare

**Attribute: csr_attr_id**
**Fullname:** Carrier Specific Routing Attribute ID
**Attribute Description** Spare

**Attribute: country**
**Fullname:** Country Identifier
**Attribute Description** Spare

**Attribute: iccvdbn**
**Fullname:** ICCV Database Number
**Attribute Description** Spare

**Attribute: lang_val**
**Fullname:** Language Value
**Attribute Description** Spare

**Attribute: spare**
**Fullname:** Spare
**Attribute Description** Spare field for fast features. For all features, use the space from this field before increasing the tuple size of this relation.

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# TCR_F7DV

## 1. Description

This relation identifies a telephone credit card (TCR) card by using the first seven digits of TCR issuer identification number. TCR stands for Telephone credit card other than 14-digit LEC card. Even if the table indicates a TCR card and the customer enters only 14 digits, it will be considered as a 14-digit LEC card. It will give the number of digits in the TCR issuer identification number, the TCR account number, the TCR check number and the TCR personal identification number (PIN) number fields.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
TCR_F7DV    relid = 1180  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     issid7dgt   DMCHAR7      (array [ 7 ] of char )  <--- key
     country     DMCHAR3      (array [ 3 ] of char )
     trans_type  DMTRANSTYP   (ushort: 8)
     csr_attr_id  DMUNS8       (ushort: 8)
     crd_attr    DMCRDATR     (ushort: 6)
     iccvdbn     DMUNS5       (ushort: 5)
 (a) accnmdgt    DMUNS4       (ushort: 4)
 (b) nxttbl      DMUNS1       (ushort: 1)
 (c) pinnmdgt    DMUNS4       (ushort: 4)
     spare       DMUNS4       (ushort: 4)
 (d) issnmdgt    DMUNS3       (ushort: 3)
 (e) lang_val    DMUNS3       (ushort: 3)
 (f) chknmdgt    DMUNS1       (ushort: 1)
        User, Compacted and Stored Tuple Layout   TCR_F7DV
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                          issid7dgt                            |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                               |               |
 4 |                  issid7dgt                    |    country    |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                             |                 |               |
 8 |            country          |   trans_type    |  csr_attr_id  |
   |---------------+---------------+---------------+---------------|
   |           |         |       | |       |       |     |     | | |
12 |  crd_attr | iccvdbn |   a   |b|   c   | spare |  d  |  e  |f|*|
   |---------------+---------------+---------------+---------------|
      ( 16 bytes )
```

## 4. Population Rules for RLtcr_f7dv

**Relation Description** Telephone credit card identification - 7 digit table. This table is now a spare relation. No

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ODA or RC requirements exist for this relation.

**Attribute: issid7dgt**
**Fullname:** Card Issuer Identification Number - 7 Digits
**Attribute Description** Spare

**Attribute: nxttbl**
**Fullname:** Next table pointer
**Attribute Description** Spare

**Attribute: issnmdgt**
**Fullname:** Number of digits for issuer identification
**Attribute Description** Spare

**Attribute: accnmdgt**
**Fullname:** Number of digits for account number
**Attribute Description** Spare

**Attribute: chknmdgt**
**Fullname:** Number of digits for check number
**Attribute Description** Spare

**Attribute: pinnmdgt**
**Fullname:** Number of digits for personal identification number (PIN)
**Attribute Description** Spare

**Attribute: trans_type**
**Fullname:** Translation type
**Attribute Description** Spare

**Attribute: crd_attr**
**Fullname:** Card Attribute Key
**Attribute Description** Spare

**Attribute: csr_attr_id**
**Fullname:** Carrier Specific Routing Attribute ID
**Attribute Description** Spare

**Attribute: country**
**Fullname:** Country Identifier
**Attribute Description** Spare

**Attribute: iccvdbn**
**Fullname:** ICCV Database Number
**Attribute Description** Spare

**Attribute: lang_val**
**Fullname:** Language Value
**Attribute Description** Spare

**Attribute: spare**
**Fullname:** Spare
**Attribute Description** Spare field for fast features. For all features, use the space from this field before increasing the tuple size of this relation.

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# TCSCC

## 1. Description

This relation contains the terminating code screening screen code and restriction flag bits for country codes.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuple in relation | 2000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
TCSCC       relid = 920   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     oaff1       DMUSHORT     (ushort)
     cc          DMTCSCC      (ushort: 10)    <--- key
     oaff2       DMUNS4       (ushort: 4)
 (a) tcsrt       DMBOOL       (enum: 1)
 (b) mech        DMBOOL       (enum: 1)
     onpa        DMONPA       (ushort: 10)    <--- key
     oaff3       DMUNS6       (ushort: 6)
     scrncode    DMTCSSCRCD   (ushort: 10)
     oaff4       DMUNS6       (ushort: 6)
     add_digits  DMCHAR5      (array [ 5 ] of char )    <--- key
         User, Compacted and Stored Tuple Layout  TCSCC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                       |       | | |
  0 |             oaff1             |         cc            | oaff2 |a|b|
    |---------------+---------------+---------------+---------------|
    |                   |           |                       |       |
  4 |        onpa       |   oaff3   |      scrncode         |  oaff4  |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                           add_digits                          |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - |
    |                 |                                             |
 12 |   add_digits    |*********************************************|
    |-----------------+-----------------+-----------------+---------|
       ( 16 bytes )
```

## 4. Population Rules for RLtcscc

**Relation Description** Terminating Code Screening based on Country Code
This relation is used to determine termination screening conditions for OSPS calls based on the Country Code (CC) of the forward number and the originating NPA and station type of the back number.

This relation should be populated for domestic generics only.

Engineering Information:

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Maximum # tuples: 585
Average # Tuples: 335

**Attribute: cc**

**Fullname:** country code

**Attribute Description** This is the country code portion of the forward number converted to binary.

**Attribute: add_digits**

**Fullname:** additional digits

**Attribute Description** Additional digits is an additional refinement of the country code for screening purposes.

**Attribute: onpa**

**Fullname:** Originating NPA

**Attribute Description** This is the originating NPA of the back number converted to binary. The 0 (zero) value is used to indicate all NPAs (100 thru 999) are treated the same for a particular Country Code (CC). When an ONPA of 0 is populated for a CC, no other ONPAs are allowed for that CC.

**Attribute: scrncode**

**Fullname:** screen code

**Attribute Description** This is the terminating code screening screen code.

**Attribute: tcsrt**

**Fullname:** restricted call routing

**Attribute Description** If any calling card restrictions apply, whether the call should be sent to reorder (DBYES) or routed to an operator (DBNO).

**Attribute: mech**

**Fullname:** eligible for MECH treatment

**Attribute Description** Indicates whether or not calls to cc are eligible for MECH treatment(DBYES) or not eligible (DBNO).

**Attribute: oaff1**

**Fullname:** Spare Field

**Attribute Description** Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

**Attribute: oaff2**

**Fullname:** Spare Field

**Attribute Description** Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

**Attribute: oaff3**

**Fullname:** Spare Field

**Attribute Description** Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

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**Attribute: oaff4**

**Fullname:** Spare Field

**Attribute Description** Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

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# TCSNPA

## 1. Description

This relation contains the terminating code screening screen code for NPA's or NPA-NXX's.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 5000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
TCSNPA      relid = 921   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     bnpanxx     DMBNPANXX    (ulong: 20)    <--- key
     onpa        DMONPA       (ushort: 10)    <--- key
 (a) tcsrt       DMBOOL       (enum: 1)
 (b) mech        DMBOOL       (enum: 1)
     oaff1       DMUSHORT     (ushort)
     scrncode    DMTCSSCRCD   (ushort: 10)
     oaff2       DMUNS6       (ushort: 6)
         User, Compacted and Stored Tuple Layout TCSNPA
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                       |                   | | |
  0 |                bnpanxx                |        onpa       |a|b|
    |---------------+---------------+---------------+---------------|
    |                               |                   |           |
  4 |             oaff1             |      scrncode     |   oaff2   |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLtcsnpa

**Relation Description** Terminating Code Screening by NPA and NPA-NXX
This relation is used to determine termination screening conditions for OSPS calls based on the NPA or NPA-NXX of the forward number and the originating NPA and station type of the back number.

This relation should be populated for domestic generics only.

Engineering Information:

Maximum # Tuples: 3335
Average # Tuples: 1900

**Attribute: bnpanxx**

**Fullname:** Binary NPA NXX

**Attribute Description** This is the NPA-NXX portion of the forward number converted to binary. It is a 6 digit number and can take on any valid NPA-NXX combination: an NPA with either a zero NXX (to mean the entire NPA) or a normal NXX can be used.

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**Attribute: onpa**

**Fullname:** Originating NPA

**Attribute Description** This is the originating NPA of the back number converted to binary. The 0 (zero) value is used to indicate all NPAs are treated the same for a particular Country Code (CC). When an ONPA of 0 is populated for a CC, no other ONPAs are allowed for that CC.

**Attribute: scrncode**

**Fullname:** Screen Code

**Attribute Description** This is the terminating code screening screen code. Zero is reserved to mean not screened.

**Attribute: tcsrt**

**Fullname:** Call Sent or Routed To????

**Attribute Description** If any calling card restrictions apply, whether the call should be sent to reorder (DBYES) or routed to an operator (DBNO).

**Attribute: mech**

**Fullname:** eligible for MECH treatment

**Attribute Description** Indicates whether or not calls terminating at npa-nxx are eligible for MECH treatment

**Attribute: oaff1**

**Fullname:** Spare field

**Attribute Description** Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

**Attribute: oaff2**

**Fullname:** Spare field

**Attribute Description** Spare field for fast features. For ALL features, use the space from this field before increasing the tuple size of this relation.

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# TCSSCRN

## 1. Description

This relation contains the restriction bits associated with a TCS screen code.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
TCSSCRN     relid = 1475  DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     scrncode    DMTCSSCRCD   (ushort: 10)  <--- key
     oaff2       DMUNS5       (ushort: 5)
 (a) coll_dny    DMBOOL       (enum: 1)
     oaff1       DMUNS8       (ushort: 8)
 (b) statn_dny   DMBOOL       (enum: 1)
 (c) coll_restr  DMBOOL       (enum: 1)
 (d) ccr_pub     DMBOOL       (enum: 1)
 (e) ccr_hotel   DMBOOL       (enum: 1)
 (f) ccr         DMBOOL       (enum: 1)
 (g) dny3_pub    DMBOOL       (enum: 1)
 (h) dny3_hotel  DMBOOL       (enum: 1)
 (i) dny3_oth    DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout    TCSSCRN
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                   |         | |               | | | | | | | | |
 0 |      scrncode     |  oaff2  |a|     oaff1     |b|c|d|e|f|g|h|i|
   |---------------+---------------+---------------+---------------|
      ( 4 bytes )
```

## 4. Population Rules for RLtcsscrn

**Relation Description** Terminating code screening (TCS) screening restriction bits. This relation contains the restriction bits associated with a TCS screen code.
Engineering Information:
Maximum # Tuples: 128
Average # Tuples: 60

**Attribute: scrncode**

**Fullname:** screencode
**Attribute Description** This is the TCS screen code. It is used to retrieve the restriction bits associated with the TCS. Zero is reserved to mean not screened.

**Attribute: coll_dny**

**Fullname:** Collect denied
**Attribute Description** DBYES - all collect service is denied.

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**Attribute: statn_dny**
**Fullname:** Station collect denied
**Attribute Description** DBYES - Station collect service is denied.

**Attribute: coll_restr**
**Fullname:** Collect restricted
**Attribute Description** DBYES - Collect service is restricted to manual operator outpulsing.

**Attribute: ccr_pub**
**Fullname:** calling card restricted from public stations
**Attribute Description** DBYES - calling card service is restricted from public stations.

**Attribute: ccr_hotel**
**Fullname:** calling card service restricted from hotels
**Attribute Description** DBYES - calling card service is restricted from hotels.

**Attribute: ccr**
**Fullname:** calling card restricted
**Attribute Description** DBYES - calling card service is restricted from non-hotel and non-public stations.

**Attribute: dny3_pub**
**Fullname:** third number denied from public stations
**Attribute Description** DBYES - third number billing is denied from public stations.

**Attribute: dny3_hotel**
**Fullname:** third number denied from hotels
**Attribute Description** DBYES - third number billing is denied from hotel stations.

**Attribute: dny3_oth**
**Fullname:** third number denied from other stations
**Attribute Description** DBYES - third number billing is denied from non-hotel and non-public stations.

**Attribute: oaff1**
**Fullname:** spare field
**Attribute Description** This is a spare field added so the database manager won't ignore a record fully populated with screencode at maximum value and all booleans set to DBYES.

**Attribute: oaff2**
**Fullname:** spare field
**Attribute Description** This is a spare field added so the database manager won't ignore a record fully populated with screencode at maximum value and all booleans set to DBYES.

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# TCSTEXT

## 1. Description

This relation contains the text associated with a TCS screen code.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
TCSTEXT     relid = 922   DBSTATIC   DBACC_CIND  DBPRAM    FG      NULL
     oaff1       DMUSHORT     (ushort)
     scrncode    DMTCSSCRCD   (ushort: 10)  <--- key
     oaff3       DMUNS6       (ushort: 6)
     scrntext    DMCHR147     (array [ 147 ] of char )
     oaff2       DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout    TCSTEXT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                 |             |
  0 |             oaff1             |      scrncode     |   oaff3   |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           scrntext                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                           scrntext                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                    .
                                    .
                                    .
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
144 |                           scrntext                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                               |               |
148 |                   scrntext                    |     oaff2     |
    |---------------+---------------+---------------+---------------|
       ( 152 bytes )
```

## 4. Population Rules for RLtcstext

**Relation Description** TCS text. This relation contains the text associated with a TCS screen code.
Engineering Information:
Maximum # Tuples: 128
Average # Tuples: 60

**Attribute: scrncode**

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**Fullname:** screencode
**Attribute Description** This is the TCS screen code. It is used to retrieve the text associated with the TCS. Zero is reserved to mean not screened.

**Attribute: scrntext**

**Fullname:** screentext
**Attribute Description** This is the text associated with the screen code which is to be displayed on the VDT whenever a call with this restriction is being handled. It consists of 147 bytes of any ascii printing characters and is determined by the TCA.

**Attribute: oaff1**

**Fullname:** spare field
**Attribute Description** This field is reserved for future OSPS fast feature.

**Attribute: oaff2**

**Fullname:** spare field
**Attribute Description** This field is reserved for future OSPS fast feature.

**Attribute: oaff3**

**Fullname:** spare field
**Attribute Description** This field is reserved for future OSPS fast feature.

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# TCW_PARM

## 1. Description

This relation is used by feature 99-5E-4605 Talking Call Waiting (TCW). This relation contains parameters not possible in SU/PR mode to be replaced by Global Parameters in 5e14.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| relation type | DBSTATIC |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |

## 3. Field Layout

```
TCW_PARM    relid = 3152  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL


    si          DMSCRNIDX    (ushort: 12)
(a) tcw_id      DMBOOL       (enum: 1) <--- key
    das         DMDA_TREE    (ushort: 7)
    dn1         DMDIG18      (struct)
        digcnt      DMDCNT18     (uchar: 5)
        dn          DMSTRING18   (array [ 18 ] of char )
    dn2         DMDIG18      (struct)
        digcnt      DMDCNT18     (uchar: 5)
        dn          DMSTRING18   (array [ 18 ] of char )
        User, Compacted and Stored Tuple Layout   TCW_PARM
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                       | |     |             |                 |
 0 |           si          |a|*****|     das     |*****************|
   |===============+============= dn1 =============+===============|
   |         |                     |                               |
 4 |  digcnt |*********************|               dn              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 8 |                             dn                                |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
12 |                             dn                                |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
16 |                             dn                                |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
20 |                             dn                                |
   |===============+============= dn2 =============+===============|
   |         |                     |                               |
24 |  digcnt |*********************|               dn              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
28 |                             dn                                |
```

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```
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 32 |                             dn                                |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 36 |                             dn                                |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 40 |                             dn                                |
    |===============+===============+===============+===============|
       ( 44 bytes )
```

## 4. Population rules for RLtcw_parm

### Relation Description

Talking Call Waiting (TCW) Parameters

For 99-5E-4605, Talking Call Waiting Call Processing, this relation is needed for the parameters of screening index, das, DN1 (DN sent to the IP for tone + name generation) DN2 (DN sent to the IP for name only generation).

**Attribute:**
tcw_id
**Fullname:**
TCW ID
**Attribute Description:**
Key for this relation. Dummy key, only value DBNO used, 1 tuple.

**Attribute:**
si
**Fullname:**
Screening Index
**Attribute Description:**
The screening index for tcw. The tcw screening index is a unique index into the RLrt_scrning relation.

**Attribute:**
das
**Fullname:**
digit analysis selector
**Attribute Description:**
The digit analysis selector (DAS) is a number that indicates the digit interpreter tables that will be used in analyzing the incoming digit stream.

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**Attribute:**
dn1
**Fullname:**
directory number 1
**Attribute Description:**
DN sent to the IP for tone + name generation.

**Attribute:**
dn2
**Fullname:**
directory number 2
**Attribute Description:**
DN sent to the IP for name only generation

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# TD_CF

## 1. Description

Time of day constructed feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1023 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head page size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| ks key store | DBNO |

## 3. Field Layout

```
TD_CF       relid = 487   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     feat_id     DMMCC_FID    (ushort)  <--- key, not stored
     max_ap      DMTD_NAP     (ushort: 6)
 (a) maxcode0    DMTD_NCODE   (ushort: 4)
 (b) maxcode1    DMTD_NCODE   (ushort: 4)
 (c) cntrlln     DMBOOL       (enum: 1)
 (d) cntrltk     DMBOOL       (enum: 1)
 (e) cntrlidp    DMBOOL       (enum: 1)
 (f) cntrlars    DMBOOL       (enum: 1)
 (g) cntrlacct   DMBOOL       (enum: 1)
 (h) cntrlath    DMBOOL       (enum: 1)
 (i) cntrlacvt   DMBOOL       (enum: 1)
 (j) act         DMBOOL       (enum: 1)
 (k) chg_at      DMBOOL       (enum: 1)
 (l) chg_ows     DMBOOL       (enum: 1)
 (m) chg_add0    DMBOOL       (enum: 1)
 (n) chg_add1    DMBOOL       (enum: 1)
 (o) chg_del0    DMBOOL       (enum: 1)
 (p) chg_del1    DMBOOL       (enum: 1)
 (q) chg_delall  DMBOOL       (enum: 1)
     bill        DMMC_BILL    (struct)
 (r)     flat        DMBOOL       (enum: 1)
 (s)     usefreq1    DMBOOL       (enum: 1)
 (t)     usefreq2    DMBOOL       (enum: 1)
 (u)     usefreq3    DMBOOL       (enum: 1)
 (v)     usefreq4    DMBOOL       (enum: 1)
 (w)     actchrg     DMBOOL       (enum: 1)
 (x)     dactchrg    DMBOOL       (enum: 1)
 (y)     duration    DMBOOL       (enum: 1)
 (z)     change      DMBOOL       (enum: 1)
         User and Compacted Tuple Layout  TD_CF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
```

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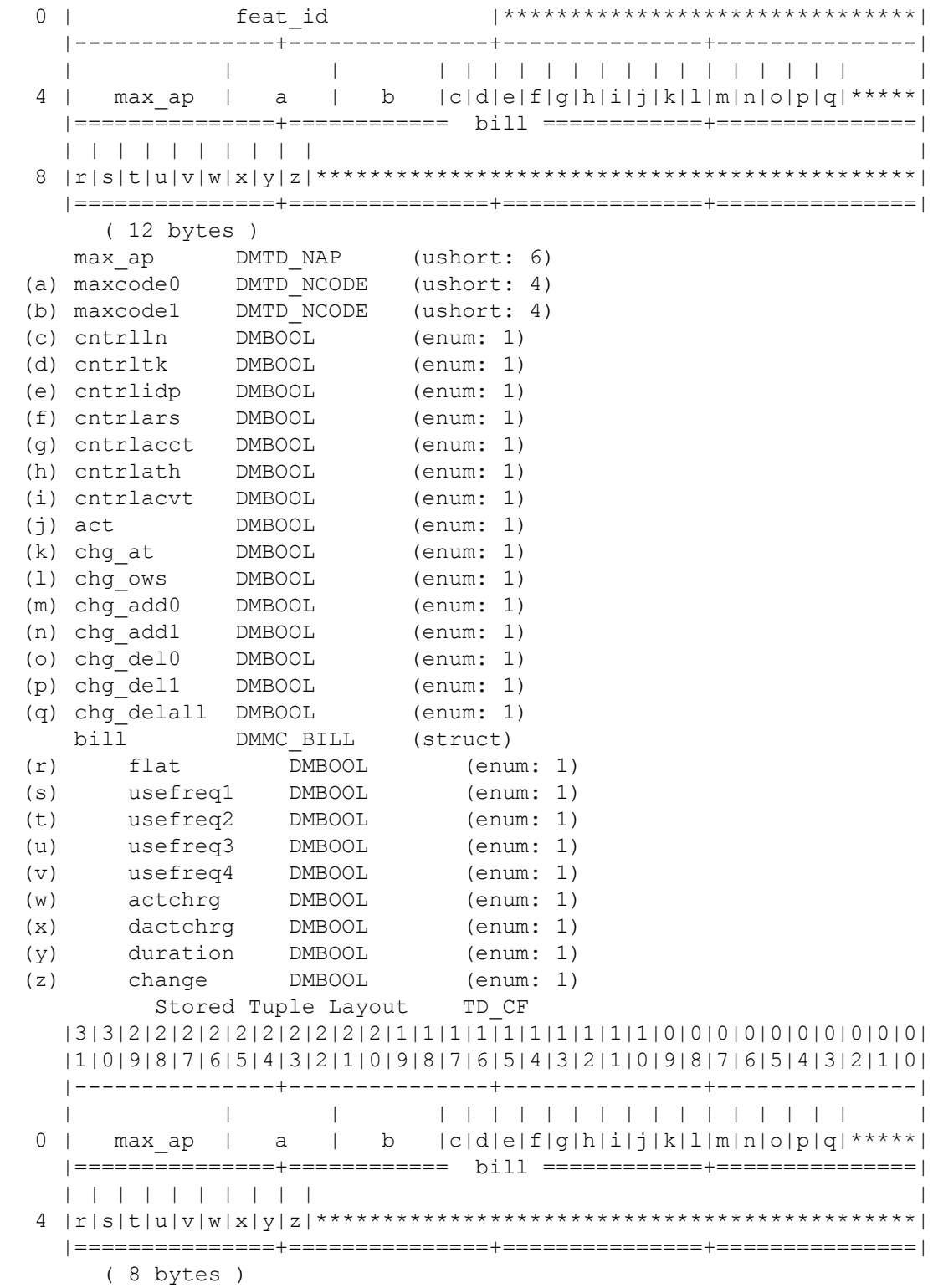


## 4. Population Rules for RLtd_cf

**Relation Description** Time of day constructed feature.
The following is a list of valid service classes for ports assigned this feature:
LINES

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```
-----
FC_INDVDL
FC_ATTENDANT
FC_4WIRE_INDV
FC_PBX
FC_ISDN
FC_ISATND

TRUNKS
------
FC_LATA_CONN
FC_PF
FC_PFLASH
```

**Attribute: feat_id**

**Fullname:** Feature ID.
**Attribute Description** Identifies time of day constructed feature ID.

**Attribute: max_ap**

**Fullname:** Maximum number of Action Points.
**Attribute Description** Indicates maximum number of action points. This attribute controls the number of tuples in RLtd_code. For each line which is assigned this time of day feature, there can be td_cf.max_ap tuples in RLtd_code with RLtd_code.td_id = RLtrmfeats.todid where the key to RLtrmfeats is the lport and lpt_type of the line.

**Attribute: maxcode0**

**Fullname:** Maximum number of zero parameter codes.
**Attribute Description** Indicates the maximum number of zero parameter codes. If RLtd_cf. maxcode0 == 0, then RLtd_cf.maxcode1 <> 0.
This attribute controls the population of data in RLtd_code. If this feature is assigned to a line, the RLtd_code tuples associated with that line's todid can have a maximum of maxcode0

**Attribute: maxcode1**

**Fullname:** Maximum number of one parameter codes.
**Attribute Description** Indicates the maximum number of one parameter code lists.
If RLtd_cf. maxcode1 == 0, then RLtd_cf.maxcode0 <> 0.
This attribute controls the population of data in RLtd_code. If this feature is assigned to a line, the RLtd_code tuples associated with that line's todid can have a maximum of maxcode1 codes in their one parameter code lists.

**Attribute: cntrlln**

**Fullname:** Control line.
**Attribute Description** Controls changes to line private data.

```
If RLtd_cf.cntrlidp,
RLtd_cf.cntrlars, RLtd_cf.cntrlacct, RLtd_cf.cntrlacvt,
RLtd_cf.cntrltk, and RLtd_cf.cntrlath == DBNO:
then RLtd_cf.cntrlln == DBYES.
```

**Attribute: cntrltk**

**Fullname:** Control trunk.
**Attribute Description** Controls changes to trunk data. Range of
If RLtd_cf.cntrlidp, RLtd_cf.cntrlars, RLtd_cf.cntrlacct, RLtd_cf.cntrlacvt, RLtd_cf.cntrlath, and RLtd_cf.cntrlln == DBNO: then RLtd_cf.cntrltk == DBYES. If this feature is assigned to a trunk,

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there will be a tuple in RLtd_code for each assigned action point.

**Attribute: cntrlidp**

**Fullname:** Controls IDP group.
**Attribute Description** Controls changes to IDP group data.
If cntrlidp is DBNO, one of RLtd_cf.cntrlln, cntrltk, cntrlars, cntrlacct, cntrlacvt or cntrlath must be DBYES. The distribution over SMs of RLtd_code and RLtd_sched tuple for this group is a union of all groups on the line.

**Attribute: cntrlars**

**Fullname:** Control ARS group.
**Attribute Description** Controls changes to ARS group data.

If RLtd_cf.cntrlln, cntrltk, cntrlidp, cntrlacct, contrlacvt, cntrlath == DBNO, then RLtd_cf.cntrlars == DBYES. The distribution over SMs of RLtd_code and RLtd_sched tuple for this group is a union of all groups on the line.

**Attribute: cntrlacct**

**Fullname:** Control ACCT group.
**Attribute Description** Controls changes to account code group data.
If RLtd_cf.cntrlln, cntrlidp, cntrltk, cntrlars, cntrlacvt, cntrlath == DBNO, then RLtd_cf.cntrlacct == DBYES. If this feature is assigned to a line or trunk, there will be a tuple in RLtd_code for each assigned action The RLtd_code tuples, as well as the RLtd_sched tuples for this line, will be distributed over the SMs on which this account code group data resides.

**Attribute: cntrlath**

**Fullname:** Control ATH group.
**Attribute Description** Controls changes to authorization code group data.
If RLtd_cf.cntrlln, cntrlidp, cntrltk, cntrlars, cntrlacvt, and cntrlacct == DBNO, then RLtd_cf.cntrlath == DBYES. If this feature is assigned to a line or trunk, there will be a tuple in RLtd_code for each assigned action point. The RLtd_code tuples, as well as the RLtd_sched tuples for this line, will be distributed over the SMs on which this authorization code group data resides.

**Attribute: cntrlacvt**

**Fullname:** Control ACVT group.
**Attribute Description** Controls changes to ACVT group data.
If RLtd_cf.cntrlln, cntrltk, cntrlidp, cntrlacct, cntrlath, cntrlars == DBNO, then RLtd_cf.cntrlacvt == DBYES. The distribution over SMs of RLtd_code and RLtd_sched tuple for this group is a union of all groups on the line.

**Attribute: act**

**Fullname:** Activation.
**Attribute Description** Indicates whether customer is allowed (DBYES) or not allowed (DBNO) to activate the feature.
RLfacftdsc tuple keyed by this feature ID must contain the actions ACN_TDACT and ACN_TDDCT if td_cf.act == DBYES.

**Attribute: chg_at**

**Fullname:** Change action time.
**Attribute Description** Indicates whether action time option can (DBYES) or cannot (DBNO) be changed.
RLfacftdsc tuple keyed by this feature ID must contain the action ACN_TDATCH if td_cf.chg_at == DBYES.

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**Attribute: chg_ows**

**Fullname:** Change one-week schedule.
**Attribute Description** Indicates whether one-week schedule option can (DBYES) or cannot (DBNO) be changed.
RLfacftdsc tuple keyed by this feature ID must contain the action ACN_TDOWCH if td_cf.chg_ows == DBYES.

**Attribute: chg_add0**

**Fullname:** Change add 0.
**Attribute Description** Indicates whether a 0 parameter code list item can (DBYES) or cannot (DBNO) be added.
RLfacftdsc tuple keyed by this feature ID must contain the action ACN_TDADZP if td_cf.chg_add0 == DBYES.

**Attribute: chg_add1**

**Fullname:** Change add 1.
**Attribute Description** Indicates whether a 1 parameter code list item can (DBYES) or cannot (DBNO) be added.
RLfacftdsc tuple keyed by this feature ID must contain the action ACN_TD1PAD if td_cf.chg_add1 == DBYES.

**Attribute: chg_del0**

**Fullname:** Change 0 parameter delete.
**Attribute Description** Indicates whether a 0 parameter code list item can (DBYES) or cannot (DBNO) be deleted.
td_cf.chg_add0 must = td_cf.chg_del0 or if td_cf.chg_add0 == DBYES then td_cf.chg_delall must = DBYES also. RLfacftdsc tuple keyed by this feature ID must contain the action ACN_TDZPDEL if chg_del0 == DBYES.

**Attribute: chg_del1**

**Fullname:** Change 1 parameter delete.
**Attribute Description** Indicates whether a 1 parameter code list item can (DBYES) or cannot (DBNO) be deleted.
td_cf.chg_add1 must = td_cf.chg_del1 or if td_cf.chg_add1 == DBYES then td_cf.chg_delall must = DBYES also. RLfacftdsc tuple keyed by this feature ID must contain the action ACN_TDDEL1P if td_cf.chg_del1 == DBYES.

**Attribute: chg_delall**

**Fullname:** change delete all.
**Attribute Description** Indicates whether all code lists of a specified action point can (DBYES) or cannot (DBNO) be deleted.
If DBYES then RLtd_cf.chg_add0 and RLtd_cf.chg_add1 = RLtd_cf.chg_delall. RLfacftdsc tuple keyed by this feature ID must contain the action ACN_TDDALL if td_cf.chg_delall == DBYES.

**Attribute: bill**

**Fullname:** Billing type.
**Attribute Description** Boolean structure indicating the combination of several types of billing. In each case a DBYES indicates that type of billing is applicable and DBNO indicates it is not. See domain DMmc_bill for a description of each subattribute.
If flat == DBYES, all other subattributes = DBNO.
If flat == DBNO, RLcw_cf.actvn = ACTCD.
If one or more subattributes other than flat == DBYES, flat = DBNO.

**Attribute: bill.flat**

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**Fullname:** Flat
**Attribute Description** Flat rate.

**Attribute: bill.usefreq1**
**Fullname:** Frequent user 1.
**Attribute Description** Frequent user 1.

**Attribute: bill.usefreq2**
**Fullname:** User frequent 2.
**Attribute Description** Frequent user 2.

**Attribute: bill.usefreq3**
**Fullname:** User frequent 3.
**Attribute Description** Frequent user 3.

**Attribute: bill.usefreq4**
**Fullname:** User frequent 4.
**Attribute Description** Frequent user 4.

**Attribute: bill.actchrg**
**Fullname:** Activation charge.
**Attribute Description** Activation charge.

**Attribute: bill.dactchrg**
**Fullname:** Deactivation charge.
**Attribute Description** Deactivation charge.

**Attribute: bill.duration**
**Fullname:** Duration.
**Attribute Description** Charge for Duration?.

**Attribute: bill.change**
**Fullname:** Parameter change
**Attribute Description** User charge for change of parameter.

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# TD_CODE

## 1. Description

This is the time of day code list relation.

This is a virtual relation. The tree diagram depicts the stored structure of virtual relation TD_CODE.

The tree diagram Figure 1 depicts the stored structure of virtual relation TD_CODE.

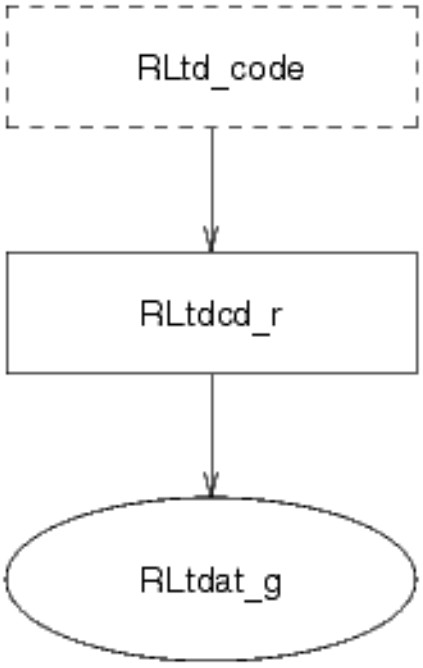


**Figure 1 Stored Structure of Virtual Relation TD_CODE**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FG |
| relation type | DBSTATIC |
| corcable | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
TD_CODE     relid = 488   DBSTATIC   DBACC_OPV   DBNOTODD  FG      NULL
     td_id       DMMCC_FID    (ushort)    <--- key
     api         DMTD_NAP     (ushort: 6)    <--- key
     n_item0     DMTD_NITEM   (ushort: 4)
     n_item1     DMTD_NITEM   (ushort: 4)
     item0_0     DMTD_0ITEM   (struct)
         code        DMTD_CODE    (array [ 4 ] of unsigned char )
         fid         DMMCC_FID    (ushort)
         act         DMMCACTN     (enum: 9)
 (a)     useidp      DMBOOL       (enum: 1)
     item0_1     DMTD_0ITEM   (struct)
         code        DMTD_CODE    (array [ 4 ] of unsigned char )
```

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```
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(b)     useidp      DMBOOL       (enum: 1)
    item0_2     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(c)     useidp      DMBOOL       (enum: 1)
    item0_3     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(d)     useidp      DMBOOL       (enum: 1)
    item0_4     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(e)     useidp      DMBOOL       (enum: 1)
    item0_5     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(f)     useidp      DMBOOL       (enum: 1)
    item0_6     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(g)     useidp      DMBOOL       (enum: 1)
    item0_7     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(h)     useidp      DMBOOL       (enum: 1)
    item1_0     DMTD_1ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        act         DMMCACTN     (enum: 9)
(i)     useidp      DMBOOL       (enum: 1)
        fid         DMMCC_FID    (ushort)
        parm        DMUNS16      (ushort)
    item1_1     DMTD_1ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        act         DMMCACTN     (enum: 9)
(j)     useidp      DMBOOL       (enum: 1)
        fid         DMMCC_FID    (ushort)
        parm        DMUNS16      (ushort)
    item1_2     DMTD_1ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        act         DMMCACTN     (enum: 9)
(k)     useidp      DMBOOL       (enum: 1)
        fid         DMMCC_FID    (ushort)
        parm        DMUNS16      (ushort)
    item1_3     DMTD_1ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        act         DMMCACTN     (enum: 9)
```

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```
(l)     useidp      DMBOOL       (enum: 1)
        fid         DMMCC_FID    (ushort)
        parm        DMUNS16      (ushort)
    item1_4     DMTD_1ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        act         DMMCACTN     (enum: 9)
(m)     useidp      DMBOOL       (enum: 1)
        fid         DMMCC_FID    (ushort)
        parm        DMUNS16      (ushort)
    item1_5     DMTD_1ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        act         DMMCACTN     (enum: 9)
(n)     useidp      DMBOOL       (enum: 1)
        fid         DMMCC_FID    (ushort)
        parm        DMUNS16      (ushort)
    item1_6     DMTD_1ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        act         DMMCACTN     (enum: 9)
(o)     useidp      DMBOOL       (enum: 1)
        fid         DMMCC_FID    (ushort)
        parm        DMUNS16      (ushort)
    item1_7     DMTD_1ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        act         DMMCACTN     (enum: 9)
(p)     useidp      DMBOOL       (enum: 1)
        fid         DMMCC_FID    (ushort)
        parm        DMUNS16      (ushort)
        User, Compacted and Stored Tuple Layout    TD_CODE
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |           |       |       |   |
 0 |             td_id             |    api    |n_item0|n_item1|***|
   |===============+=========== item0_0 ===========+===============|
   |                                                               |
 4 |                               code                            |
   |---------------+---------------+---------------+---------------|
   |                               |                 | |           |
 8 |               fid             |       act       |a|**********|
   |===============+=========== item0_1 ===========+===============|
   |                                                               |
12 |                               code                            |
   |---------------+---------------+---------------+---------------|
   |                               |                 | |           |
16 |               fid             |       act       |b|**********|
   |===============+=========== item0_2 ===========+===============|
   |                                                               |
20 |                               code                            |
   |---------------+---------------+---------------+---------------|
   |                               |                 | |           |
24 |               fid             |       act       |c|**********|
   |===============+=========== item0_3 ===========+===============|
   |                                                               |
28 |                               code                            |
```

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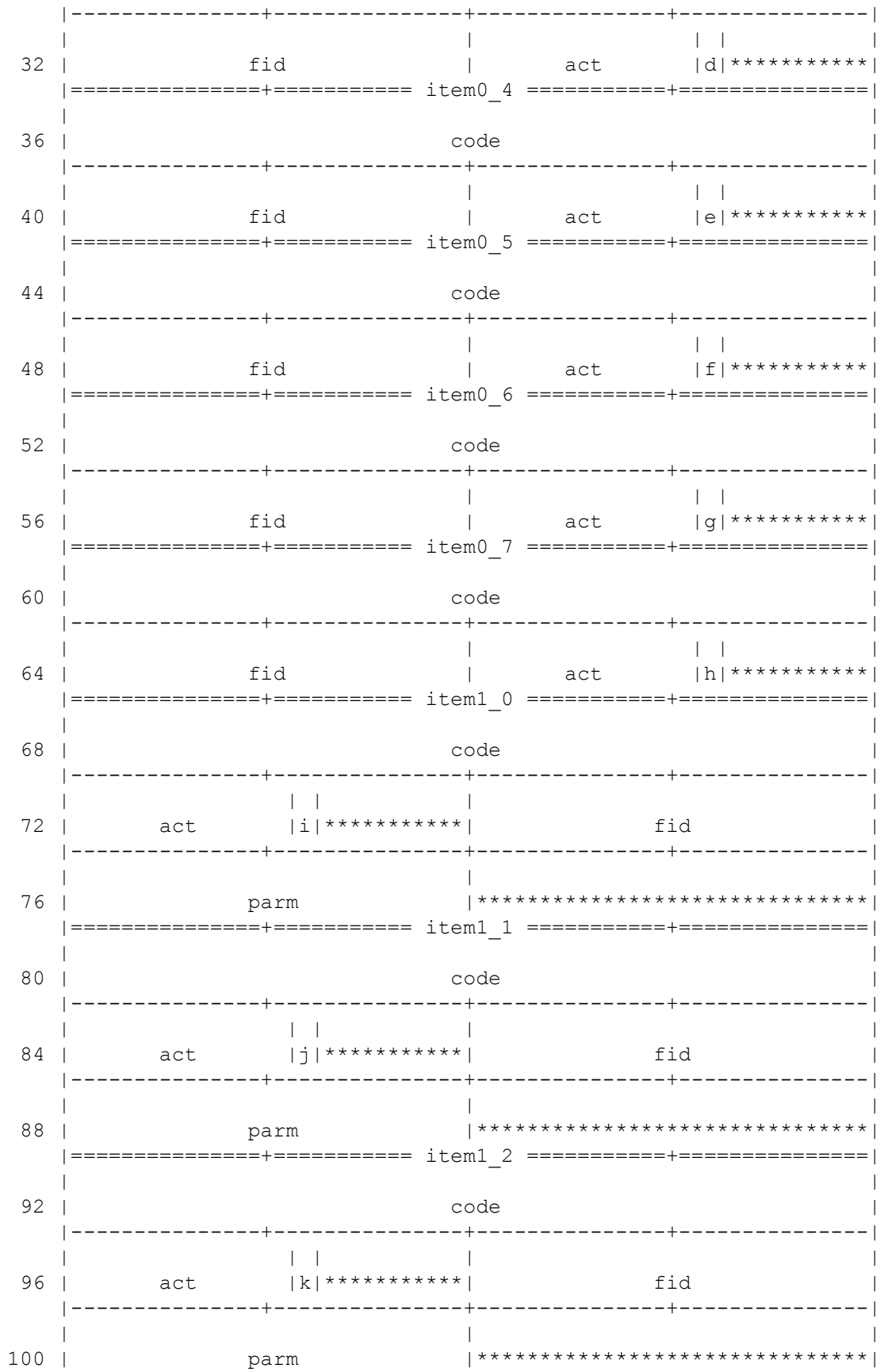


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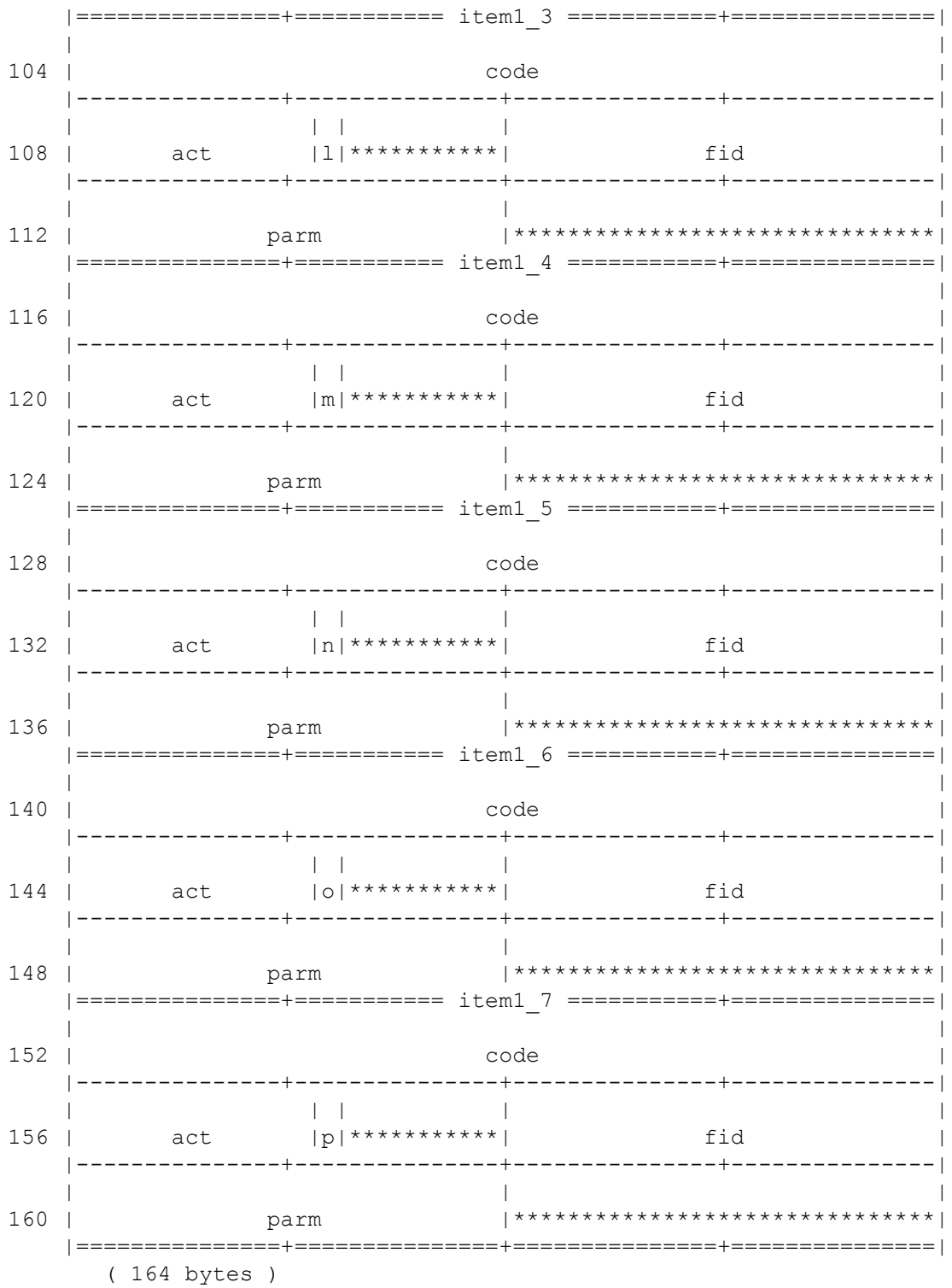


( 164 bytes )

## 4. Population Rules for RLtd_code

**Relation Description** The time of day code list relation.
This relation contains the Time Of Day (TOD) code list for a user. There must be one code list tuple for each non-null action point in the corresponding RLtd_sched tuple. The schedule tuple contains the time and days of the week for each action point, while the code list tuples contain the actual dial codes to be performed at those times.

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**Attribute: td_id**

**Fullname:** time of day identifier

**Attribute Description** Dependencies: For every unique RLtd_code.td_id, there must be tuples in: `RLfactodsc such that RLfactodsc.todid = td_id`

RLfacids such that RLfacids.class = FACTODLST and RLfacids.subclass = SCL_NULL and RLfacids.facid = 0

RLname2id such that RLname2id.name = code list name and RLname2id.class = FACTODLST

RLdb_amgpd such that RLdb_amgpd.grp_type = GPDTOD and RLdb_amgpd.grpid = RLtd_code.td_id.

**Attribute: api**

**Fullname:** action point index

**Attribute Description** RLtd_code.api must_be_less_then RLtd_sched.max_ap for every tuple where RLtd_code.td_id equals RLtd_sched.td_id.

**Attribute: n_item0**

**Fullname:** number of zero parameter items

**Attribute Description** RLtd_code.n_item0 must_be 0 if attributes item0_0 through item0_7 are null.

**Attribute: n_item1**

**Fullname:** number of one parameter items

**Attribute Description** RLtd_code.n_item1 must_be 0 if attributes item1_0 through item1_7 are null.

**Attribute: item0[*]**

**Fullname:** zero parameter items

**Attribute Description** Zero parameter items.

The number of item0_0 through item0_7 attributes which are not null values must be less than or equal to the value of n_item0.

**Attribute: item0[*].code**

**Fullname:** dialed action code

**Attribute Description** This field holds a dialed action code of an action not requiring a parameter. This dial code must appear in either the IDP digit tree associated with the line, or the Office Dialing Plan.

**Attribute: item0[*].fid**

**Fullname:** constructed feature id

**Attribute Description** This fid must be the fid associated with the dial code in RLtd_code.item0_*.code and must be found in the same digit tree entry.

**Attribute: item0[*].act**

**Fullname:** action

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**Attribute Description** This field holds the action associated with the dial code in RLtd_code.item0_*.code and must be found in the same digit tree entry.

**Attribute: item0[*].useidp**

**Fullname:** Use IDP to analyze dial code

**Attribute Description** This field determines whether or not to use the IDP digit trees when doing digit analysis on the dial code in the code field.

**Attribute: item1[*]**

**Fullname:** one parameter items

**Attribute Description** One parameter items.

The number of item1_0 through item1_7 attributes which are not null values must be less than or equal to the value of n_item1.

**Attribute: item1[*].code**

**Fullname:** dialed action code

**Attribute Description** This field holds a dialed action code of an action requiring a parameter. This dial code must appear in the IDP digit tree associated with the line or in the Office Dialing Plan.

**Attribute: item1[*].act**

**Fullname:** action

**Attribute Description** This field holds the action associated with the dial code in RLtd_code.item1_*.code and must be found in the same digit tree entry.

**Attribute: item1[*].useidp**

**Fullname:** Use IDP to analyze dial code

**Attribute Description** This field determines whether or not to use the IDP digit trees when doing digit analysis on the dial code in the code field.

**Attribute: item1[*].fid**

**Fullname:** constructed feature id

**Attribute Description** This fid must be the fid associated with the dial code in RLtd_code.item1_*.code and must be found in the same digit tree entry.

**Attribute: item1[*].parm**

**Fullname:** parameter

**Attribute Description** Parameter to be used with the dial code. Valid values are as follows:

```
for ARSCP or DARSCP: 1 to 6
for ACT_ON or ACTOFF: 1 to 32
for GRPCARCH: a valid group carrier id
for ATHREQ or ATHNRQ: parm is a fid (DMUNS16).
         This fid may be checked by ODA against the fcos
         (RLath_fcos) relation if desired.
```

**Defines:** "db/DMcarrid.h"

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# TD_SCHED

## 1. Description

This relation contains the time of day action point schedule.

The tree diagram Figure 1 depicts the stored structure of virtual relation TD_SCHED.

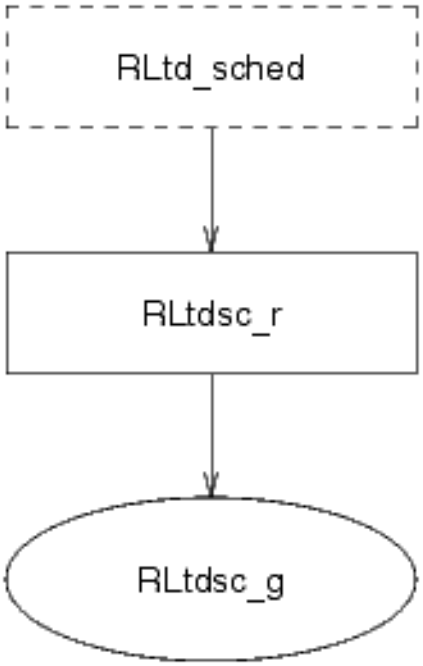


**Figure 1 Stored Structure of Virtual Relation TD_SCHED**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FG |
| relation type | DBSTATIC |
| trigger function | DBtd_sched |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
TD_SCHED    relid = 489   DBSTATIC   DBACC_OPV   DBNOTODD  FG      NULL
     td_id       DMMCC_FID    (ushort) <--- key
     acctgpid    DMFACID      (ushort)
     athgpid     DMFACID      (ushort)
     athdtgpid   DMFACID      (ushort)
     lport       DMLPORT      (ushort: 16)
 (a) lpt_type    DMLPT_TYPE   (enum: 2)
     lport_mod   DMMODULE     (ushort: 8)
     max_ap      DMTD_NAP     (ushort: 6)
     max0p       DMTD_NCODE   (ushort: 4)
     max1p       DMTD_NCODE   (ushort: 4)
```

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```
(b) active      DMBOOL       (enum: 1)
(c) armed       DMBOOL       (enum: 1)
(d) valid       DMBOOL       (enum: 1)
(e) cntrlln     DMBOOL       (enum: 1)
(f) cntrltk     DMBOOL       (enum: 1)
(g) cntrlars    DMBOOL       (enum: 1)
(h) cntrlidp    DMBOOL       (enum: 1)
(i) cntrlacct   DMBOOL       (enum: 1)
(j) cntrlath    DMBOOL       (enum: 1)
(k) cntrlacvt   DMBOOL       (enum: 1)
(l) ltsb_alwd   DMBOOL       (enum: 1)
    acvt_gpid   DMFACID      (ushort)
    idpgpid     DMIDP_GPID   (ushort)
    arsgpid     DMMCC_FID    (ushort)
    ardtgpid    DMMCC_FID    (ushort)
    ap00        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap01        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap02        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap03        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap04        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap05        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap06        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap07        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap08        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap09        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap10        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap11        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap12        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
```

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```
ap13        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap14        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap15        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap16        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap17        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap18        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap19        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap20        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap21        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap22        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap23        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap24        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap25        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap26        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap27        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap28        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap29        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap30        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
```

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```
 ap31        DMTD_AP      (struct)
     ows         DMTD_OWS     (ushort: 7)
     at          DMTD_AT      (ushort: 7)
     User, Compacted and Stored Tuple Layout   TD_SCHED
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             td_id             |            acctgpid           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |            athgpid            |           athdtgpid           |
   |---------------+---------------+---------------+---------------|
   |                               |   |               |           |
 8 |             lport             | a |   lport_mod   |   max_ap  |
   |---------------+---------------+---------------+---------------|
   |       |       | | | | | | | | | | |                             |
12 | max0p | max1p |b|c|d|e|f|g|h|i|j|k|l|*****************************|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |           acvt_gpid           |            idpgpid            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |            arsgpid            |            ardtgpid           |
   |===============+============  ap00 ============+===============|
   |               |              |                                 |
24 |     ows       |      at      |*********************************|
   |===============+============  ap01 ============+===============|
   |               |              |                                 |
28 |     ows       |      at      |*********************************|
   |===============+============  ap02 ============+===============|
   |               |              |                                 |
32 |     ows       |      at      |*********************************|
   |===============+============  ap03 ============+===============|
   |               |              |                                 |
36 |     ows       |      at      |*********************************|
   |===============+============  ap04 ============+===============|
   |               |              |                                 |
40 |     ows       |      at      |*********************************|
   |===============+============  ap05 ============+===============|
   |               |              |                                 |
44 |     ows       |      at      |*********************************|
   |===============+============  ap06 ============+===============|
   |               |              |                                 |
48 |     ows       |      at      |*********************************|
   |===============+============  ap07 ============+===============|
   |               |              |                                 |
52 |     ows       |      at      |*********************************|
   |===============+============  ap08 ============+===============|
   |               |              |                                 |
56 |     ows       |      at      |*********************************|
   |===============+============  ap09 ============+===============|
   |               |              |                                 |
60 |     ows       |      at      |*********************************|
```

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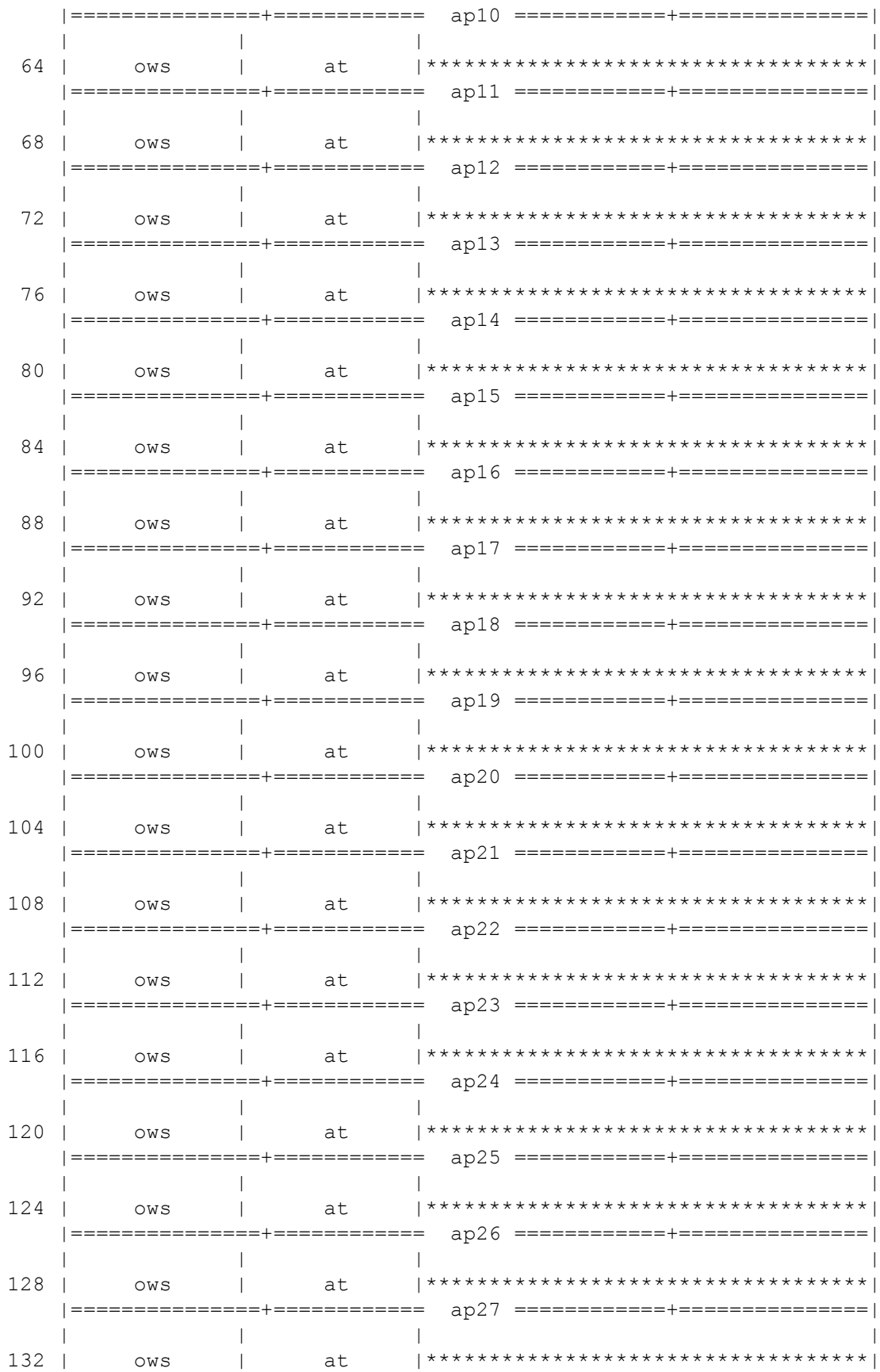


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```
    |===============+============  ap28 ============+===============|
    |               |             |                                  |
136 |     ows       |      at     |**********************************|
    |===============+============  ap29 ============+===============|
    |               |             |                                  |
140 |     ows       |      at     |**********************************|
    |===============+============  ap30 ============+===============|
    |               |             |                                  |
144 |     ows       |      at     |**********************************|
    |===============+============  ap31 ============+===============|
    |               |             |                                  |
148 |     ows       |      at     |**********************************|
    |===============+===============+===============+===============|
       ( 152 bytes )
```

## 4. Population rules for RLtd_sched

### Relation Description

Time of day schedule
This relation contains the time of day action point schedule.

**Attribute:**
td_id
**Fullname:**
Time of day identifier
**Attribute Description:**
Time of day identifier. There will be 1 identifer for each time of day list identifier (todid) in RLtrmfeats.

**Attribute:**
acctgpid
**Fullname:**
Account code group ID
**Attribute Description:**
This attribute identifies the account code group ID if this line controls account code data. If acctgpid > 0 then this port must belong to this account code group. If RLtd_sched.valid = DBYES then this RLtd_sched tuple must be distributed to each SM where this account code group is present.

**Attribute:**
athgpid
**Fullname:**
Authorization code group ID
**Attribute Description:**
This attribute identifies the authorization code group ID if this line controls authorization code data. If RLtd_sched.athgpid > 0, then the port must belong to this authorization code group. If RLtd_sched.valid = DBYES, then the RLtd_sched tuple must be distributed to each SM where an authorization code group is present.

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**Attribute:**
athdtgpid
**Fullname:**
Authorization code data group id
**Attribute Description:**
This attribute is used for identifying authorization code data grou id. If a nonzero athdtgpid is specified, a tuple must exist in RLath_grp keyed by athgpid, and the group type in that tuple must be BR_CSD (circuit-switched data).

**Attribute:**
lport
**Fullname:**
Logical port
**Attribute Description:**
The logical port of the user.

**Attribute:**
lpt_type
**Fullname:**
Logical port type
**Attribute Description:**
Logical port type of the user.

**Attribute:**
lport_mod
**Fullname:**
Logical port module
**Attribute Description:**
The SM that the logical port is located on.

**Attribute:**
max_ap
**Fullname:**
Maximum action points
**Attribute Description:**
This attribute indicates the maximum number of action points.

**Attribute:**
max0p
**Fullname:**
Maximum 0 parameters
**Attribute Description:**
This attribute indicates the maximum number of 0 parameter codes in an action point.

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**Attribute:**
max1p
**Fullname:**
Maximum 1 parameters
**Attribute Description:**
This attribute indicates the maximum number of 1 parameters in an action point.

**Attribute:**
active
**Fullname:**
Active
**Attribute Description:**
This attribute indicates whether the feature on the line is (DBYES) or is not (DBNO) active.

**Attribute:**
armed
**Fullname:**
Armed
**Attribute Description:**
This attribute indicates whether the feature on the line is (DBYES) or is not (DBNO) armed.

**Attribute:**
valid
**Fullname:**
Valid
**Attribute Description:**
This attribute indicates whether this schedule is (DBYES) or is not (DBNO) executable.

**Attribute:**
cntrlln
**Fullname:**
Control line
**Attribute Description:**
Indicates whether there is line private changes for each valid action point.

**Attribute:**
cntrltk
**Fullname:**
Control trunk
**Attribute Description:**
Indicates whether TOD controls actions of BRCS features assigned to a trunk.

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**Attribute:**
cntrlars
**Fullname:**
Control ARS
**Attribute Description:**
If RLtd_sched.valid = DBYES and RLtd_sched.cntrlars = DBYES, this list may control the active pattern group and alternate frl tables for the ars group. If RLtd_sched.valid = DBYES, and RLtd_sched.cntrlars = DBNO, then this list cannot control these ars group features. If RLtd_sched.valid = DBNO, then cntrlars is meaningless.

**Attribute:**
cntrlidp
**Fullname:**
Control IDP
**Attribute Description:**
If RLtd_sched.valid = DBYES, then if RLtd_sched.cntrlidp is DBYES, this list may control an idp group. If RLtd_sched.valid = DBYES, then if RLtd_sched.cntrlidp is DBNO, this list cannot control an idp group. If RLtd_sched.valid = DBNO, then cntrlidp is meaningless.

**Attribute:**
cntrlacct
**Fullname:**
Control account
**Attribute Description:**
If RLtd_sched.valid = DBYES and RLtd_sched.cntrlacct = DBYES, this list may control an account code group. If RLtd_sched.cntrlacct = DBNO, this list cannot control an account code group.
If RLtd_sched.valid = DBNO, then cntrlacct is meaningless.

**Attribute:**
cntrlath
**Fullname:**
Control authorization
**Attribute Description:**
If RLtd_sched.valid = DBYES and RLtd_sched.cntrlath = DBYES, this list may control an authorization code group.
If RLtd_sched.cntrlath = DBNO, this list cannot control an authorization code group.
If RLtd_sched.valid = DBNO, then cntrlath is meaningless.

**Attribute:**
cntrlacvt
**Fullname:**
Control ACVT

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**Attribute Description:**
If RLtd_sched.valid = DBYES and RLtd_sched.cntrlacvt = DBYES, this list may control an acvt group. If RLtd_sched.cntrlacvt = DBNO, this list cannot control an acvt group. If RLtd_sched.valid = DBNO, then cntrlacvt is meaningless.

**Attribute:**
ltsb_alwd
**Fullname:**
Line Time Slot Bridging Allowed
**Attribute Description:**
If RLtd_sched.ltsb_alwd = DBYES then TOD is assigned to an LTSB line.

**Attribute:**
acvt_gpid
**Fullname:**
ACTV group ID
**Attribute Description:**
Identifies actv group ID if this line controls actv group data. If RLtd_sched.acvt_gpid > 0, then the port must belong to this acvt group. If RLtd_sched.valid = DBYES, then this RLtd_sched tuple must be distributed to each SM where this acvt group is present.

**Attribute:**
idpgpid
**Fullname:**
IDP group ID
**Attribute Description:**
Identifies idp group id if this line controls idp data. If RLtd_sched.idpgpid <> 0, then the port must belong to this idp group. If RLtd_sched.valid = DBYES, then this RLtd_sched tuple must be distributed to each SM where this idp group is present.

**Attribute:**
arsgpid
**Fullname:**
ARS group ID
**Attribute Description:**
Identifies ars group id if this line controls ars data. If RLtd_sched.arsgpid <> 0, then the port must belong to this ars group. If RLtd_sched.valid = DBYES, then this RLtd_sched tuple must be distributed to each SM where this ars group is present.

**Attribute:**
ardtgpid
**Fullname:**
Automatic route selection data group id

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**Attribute Description:**
Identifies an ARS data group. If a non-zero, ardtgpid is specified, a tuple must exist in RLargp with ar_gpid as the key, and the group type in that tuple must be BR_CSD.

**Attribute:**
ap[*]
**Fullname:**
Action point
**Attribute Description:**
Indicates action points. This is a structure of two members:
ows - one week schedule
at - action time.

**Attribute:**
ap[*].ows
**Fullname:**
One week schedule
**Attribute Description:**
A bit map of the week with the high order bit representing Monday and the low order bit representing Sunday.

**Attribute:**
ap[*].at
**Fullname:**
Action time
**Attribute Description:**
Action time.

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# TD_TM

## 1. Description

Time of day template.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1023 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| head page size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| ks key store | DBNO |

## 3. Field Layout

```
TD_TM       relid = 490   DBSTATIC   DBACC_CIND  DBPRAM    LP      RCMAP
     feat_id     DMMCC_FID    (ushort)  <--- key, not stored
     max_ap      DMTD_NAP     (ushort: 6)
 (a) maxcode0    DMTD_NCODE   (ushort: 4)
 (b) maxcode1    DMTD_NCODE   (ushort: 4)
 (c) dfcl        DMDFCL       (enum: 2)
 (d) cntrlln     DMBOOL       (enum: 1)
 (e) cntrltk     DMBOOL       (enum: 1)
 (f) cntrlidp    DMBOOL       (enum: 1)
 (g) cntrlars    DMBOOL       (enum: 1)
 (h) cntrlacct   DMBOOL       (enum: 1)
 (i) cntrlath    DMBOOL       (enum: 1)
 (j) cntrlacvt   DMBOOL       (enum: 1)
 (k) act         DMBOOL       (enum: 1)
 (l) chg_at      DMBOOL       (enum: 1)
 (m) chg_ows     DMBOOL       (enum: 1)
 (n) chg_add0    DMBOOL       (enum: 1)
 (o) chg_add1    DMBOOL       (enum: 1)
 (p) chg_del0    DMBOOL       (enum: 1)
 (q) chg_del1    DMBOOL       (enum: 1)
 (r) chg_delall  DMBOOL       (enum: 1)
     bill        DMMC_BILL    (struct)
 (s)     flat        DMBOOL       (enum: 1)
 (t)     usefreq1    DMBOOL       (enum: 1)
 (u)     usefreq2    DMBOOL       (enum: 1)
 (v)     usefreq3    DMBOOL       (enum: 1)
 (w)     usefreq4    DMBOOL       (enum: 1)
 (x)     actchrg     DMBOOL       (enum: 1)
 (y)     dactchrg    DMBOOL       (enum: 1)
 (z)     duration    DMBOOL       (enum: 1)
 (A)     change      DMBOOL       (enum: 1)
         User and Compacted Tuple Layout  TD_TM
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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```
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            feat_id            |*******************************|
   |---------------+---------------+---------------+---------------|
   |           |       |       |   | | | | | | | | | | | | | | | |
 4 |   max_ap  |   a   |   b   | c |d|e|f|g|h|i|j|k|l|m|n|o|p|q|r|*|
   |===============+===========  bill ============+===============|
   | | | | | | | | |                                               |
 8 |s|t|u|v|w|x|y|z|A|***********************************************|
   |===============+===============+===============+===============|
      ( 12 bytes )
    max_ap      DMTD_NAP     (ushort: 6)
(a) maxcode0    DMTD_NCODE   (ushort: 4)
(b) maxcode1    DMTD_NCODE   (ushort: 4)
(c) dfcl        DMDFCL       (enum: 2)
(d) cntrlln     DMBOOL       (enum: 1)
(e) cntrltk     DMBOOL       (enum: 1)
(f) cntrlidp    DMBOOL       (enum: 1)
(g) cntrlars    DMBOOL       (enum: 1)
(h) cntrlacct   DMBOOL       (enum: 1)
(i) cntrlath    DMBOOL       (enum: 1)
(j) cntrlacvt   DMBOOL       (enum: 1)
(k) act         DMBOOL       (enum: 1)
(l) chg_at      DMBOOL       (enum: 1)
(m) chg_ows     DMBOOL       (enum: 1)
(n) chg_add0    DMBOOL       (enum: 1)
(o) chg_add1    DMBOOL       (enum: 1)
(p) chg_del0    DMBOOL       (enum: 1)
(q) chg_del1    DMBOOL       (enum: 1)
(r) chg_delall  DMBOOL       (enum: 1)
    bill        DMMC_BILL    (struct)
(s)     flat        DMBOOL       (enum: 1)
(t)     usefreq1    DMBOOL       (enum: 1)
(u)     usefreq2    DMBOOL       (enum: 1)
(v)     usefreq3    DMBOOL       (enum: 1)
(w)     usefreq4    DMBOOL       (enum: 1)
(x)     actchrg     DMBOOL       (enum: 1)
(y)     dactchrg    DMBOOL       (enum: 1)
(z)     duration    DMBOOL       (enum: 1)
(A)     change      DMBOOL       (enum: 1)
          Stored Tuple Layout    TD_TM
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |           |       |       |   | | | | | | | | | | | | | | | |
 0 |   max_ap  |   a   |   b   | c |d|e|f|g|h|i|j|k|l|m|n|o|p|q|r|*|
   |===============+===========  bill ============+===============|
   | | | | | | | | |                                               |
 4 |s|t|u|v|w|x|y|z|A|***********************************************|
   |===============+===============+===============+===============|
      ( 8 bytes )
```

## 4. Population Rules for RLtd_tm

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**Relation Description** This relation keeps track of billing and permissions for different time of day option packages.

The default code list can no longer be created from the equipment number (EN) due to the OE expansion from eight to ten characters. If there are any existing code lists that were created this way, they may stay since any eight characters are legal, but the feature definition view has been changed so that no new code lists will be created using the EN to generate the code list name.

**Attribute: feat_id**

**Fullname:** Feature identifier
**Attribute Description** This attribute identifies the time of day constructed feature ID.

**Attribute: max_ap**

**Fullname:** Maximum action points
**Attribute Description** This attribute indicates the maximum number of action points.

**Attribute: maxcode0**

**Fullname:** Maximum zero parameter code lists
**Attribute Description** This attribute indicates the maximum number of zero parameter code lists.

**Attribute: maxcode1**

**Fullname:** Maximum one parameter code lists
**Attribute Description** This attribute indicates the maximum number of one parameter code lists.

**Attribute: cntrlln**

**Fullname:** Control line
**Attribute Description** This attribute controls changes to line private data. If this feature is assigned to a line, there will be a tuple in RLtd_code for each assigned action point.

**Attribute: cntrltk**

**Fullname:** Control trunk
**Attribute Description** This attribute controls changes to trunk data. If this feature is assigned to a trunk, there will be a tuple in RLtd_code for each assigned action point.

**Attribute: cntrlidp**

**Fullname:** Control individual dialing plan (IDP) group
**Attribute Description** This attribute controls changes to IDP group data. If this feature is assigned to a line, there will be a tuple in RLtd_code for each assigned action point. This RLtd_code tuple as well as the RLtd_sched tuple for this line will be distributed over the SMs on which the line's group data resides.

**Attribute: cntrlars**

**Fullname:** Control automatic route selection (ARS) group
**Attribute Description** This attribute controls changes to ARS group data. If this feature is assigned to a line, there will be a tuple in RLtd_code for each assigned action point. This RLtd_code tuple as well as the RLtd_sched tuple for this line will be distributed over the SMs on which the line's group data resides.

**Attribute: cntrlacct**

**Fullname:** Control account group
**Attribute Description** This attribute controls changes to account code group data. If this feature is assigned to a line/trunk, there will be a tuple in RLtd_code for each assigned action point. These RLtd_code tuples as well as the RLtd_sched tuples for this line/trunk will be distributed over the SMs on which lines/trunks with an account code group data that TOD feature controls resides.

**Attribute: cntrlath**

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**Fullname:** Control authorization group
**Attribute Description** This attribute controls changes to authorization code group data. If this feature is assigned to a line/trunk, there will be a tuple in RLtd_code for each assigned action point. The RLtd_code tuples as well as the RLtd_sched tuples for this line/trunk will be distributed over the SMs on which lines/trunks with an authorization code group data that TOD feature controls reside.

**Attribute: cntrlacvt**
**Fullname:** Control activate (ACTV) group
**Attribute Description** This attribute controls changes to ACTV group data. If this feature is assigned to a line, there will be a tuple in RLtd_code for each assigned action point. This RLtd_code tuple as well as the RLtd_sched tuple for this line will be distributed over the SMs on which the group data resides.

**Attribute: act**
**Fullname:** Customer selected activation
**Attribute Description** This attribute indicates whether customer is allowed to activate the feature using dialed code.

**Attribute: chg_at**
**Fullname:** Change action time
**Attribute Description** This attribute indicates whether or not the action time option can be changed.

**Attribute: chg_ows**
**Fullname:** Change one week schedule
**Attribute Description** This attribute indicates whether or not the one-week schedule option can be changed.

**Attribute: chg_add0**
**Fullname:** Change 0 parameter list by addition
**Attribute Description** This attribute indicates whether or not a 0 parameter code list item may be added.

**Attribute: chg_add1**
**Fullname:** Change 1 parameter list by addition
**Attribute Description** This attribute indicates whether or not a 1 parameter code list item may be added.

**Attribute: chg_del0**
**Fullname:** Change 0 parameter list by deletion
**Attribute Description** This attribute indicates whether or not a 0 parameter code list item may be deleted.

**Attribute: chg_del1**
**Fullname:** Change 1 parameter list by deletion
**Attribute Description** This attribute indicates whether or not a 1 parameter code list item may be deleted.

**Attribute: chg_delall**
**Fullname:** Change by deleting all
**Attribute Description** This attribute indicates whether or not all code lists of a specified action point may be deleted.

**Attribute: bill**

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**Fullname:** Billing options
**Attribute Description** This attribute is a boolean structure indicating the combination of several types of billing.

**Attribute: bill.flat**
**Fullname:** Flat rate
**Attribute Description** This sub-attribute indicates whether or not billing is done on a flat rate. A flat rate means that there are no usage sensitive charges.

**Attribute: bill.usefreq1**
**Fullname:** Usage frequency charge for use of event 1
**Attribute Description** This sub-attribute indicates whether or not billing is to include usage frequency charges for use of event 1.

**Attribute: bill.usefreq2**
**Fullname:** Usage frequency charge for use of event 2
**Attribute Description** This sub-attribute indicates whether or not billing is to include usage frequency charges for use of event 2.

**Attribute: bill.usefreq3**
**Fullname:** Usage frequency charge for use of event 3
**Attribute Description** This sub-attribute indicates whether or not billing is to include usage frequency charges for use of event 3.

**Attribute: bill.usefreq4**
**Fullname:** Usage frequency charge for use of event 4
**Attribute Description** This sub-attribute indicates whether or not billing is to include usage frequency charges for use of event 4.

**Attribute: bill.actchrg**
**Fullname:** Usage charge for activation
**Attribute Description** This sub-attribute indicates whether or not billing is to include a usage charge for activation.

**Attribute: bill.dactchrg**
**Fullname:** Usage charge for deactivation
**Attribute Description** This sub-attribute indicates whether or not billing is to include a usage charge for deactivation.

**Attribute: bill.duration**
**Fullname:** Usage charge for duration of use
**Attribute Description** This sub-attribute indicates whether or not billing is to include a usage charge for duration of use.

**Attribute: bill.change**
**Fullname:** Usage charge for change of parameter
**Attribute Description** This sub-attribute indicates whether or not billing is to include a usage charge for change of parameter.

**Attribute: dfcl**
**Fullname:** Default code list
**Attribute Description** This attribute indicates whether the name of the time of day list is to be predetermined.
If RLtd_tm.dfcl = TN, then the name of the time-of-day list should be the telephone number of the line.

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If RLtd_tm.dfcl = TK, then the name of the time-of-day list should be the trunk group and member number of the trunk.
When a list is automatically named, it means that at the time the feature is assigned to a line, a list name and list are created. This means that RLfacname is populated with a list name, RLfacids is incremented for time of day lists, a tuple is created in RLfactodsc with the list ID as key, the list ID is entered in RLtrmfeats as todid, an RLtd_sched tuple is created with the list ID as key, and RLtd_code tuples are created with list ID and api(s) from 0 to RLtd_sched.maxap. A tuple is created in RLdb_amgpd with list ID GPDTOD as keys. The contents of these relations must be set as specified by their population rules. The array of action points in RLtd_sched and the arrays of codes in RLtd_code may be defaulted.

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# TDASSIGN

## 1. Description

Traffic data to customer feature assignment.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | EADAS |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
TDASSIGN    relid = 736   DBSTATIC   DBACC_HASH  DBPRAM    LP      EADAS
     gcsrid      DMUNS16      (ushort)  <--- key
     apid        DMAPSITE     (ushort: 8)  <--- key
 (a) tdactive    DMBOOL       (enum: 1)
 (b) acaactive   DMBOOL       (enum: 1)
 (c) hssactive   DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   TDASSIGN
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |               | | | |         |
 0 |             gcsrid            |      apid     |a|b|c|*********|
   |---------------+---------------+---------------+---------------|
      ( 4 bytes )
```

## 4. Population Rules for RLtdassign

**Relation Description** Traffic data to customer feature assignment.

**Attribute: gcsrid**

**Fullname:** Business customer ID
**Attribute Description** Customer should have the same gcsrid for all features that require it.

**Attribute: apid**

**Fullname:** Applications processor ID (APID)
**Attribute Description** There must be a tuple in RLcmapdata with RLcmapdata.site_id = apid.

**Attribute: tdactive**

**Fullname:** Traffic data to customer feature active
**Attribute Description** Traffic data active. Indicates whether the traffic data to customer location feature has been activated for this customer.

**Attribute: acaactive**

**Fullname:** Automatic circuit assurance feature active
**Attribute Description** Automatic circuit assurance active. Indicates whether the automatic circuit assurance feature has been activated for this customer.

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**Attribute: hssactive**

**Fullname:** Enhanced private switched communication service (EPSCS) 100 second scan feature active

**Attribute Description** EPSCS 100 second scan (HSS) feature active. Indicates whether the HSS feature has been assigned to this customer.

(1) If hssactive == DBYES, a tuple must exist in RLcmapdata for the 'apid' such that:

RLcmapdata.module != 0

(2) If hssactive == DBYES, a tuple must be placed in the relation RLhssasgn with:

```
RLhssasgn.bcid      =   RLtdassign.gcsrid
RLhssasgn.apid      =   RLtdassign.apid
RLhssasgn.hssactive =   DBYES
```

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# TDAT_G

## 1. Description

Time of day code list GK storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 500 |
| expected tuples | 20 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTORAGE |
| head page size | 256 |
| intermediate page size | 256 |
| data page size | 512 |
| page level | 3 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel reverse index | rITDAT_I |

## 3. Field Layout

```
TDAT_G      relid = 1778  DBSTORAGE  DBACC_GK    DBPRAM    FG      NULL
     gkTDAT_G    DMGK14       (ulong: 14)  <--- key, not stored
     n_item0     DMTD_NITEM   (ushort: 4)
     n_item1     DMTD_NITEM   (ushort: 4)
     item1_0     DMTD_1ITEM   (struct)
         code        DMTD_CODE    (array [ 4 ] of unsigned char )
         act         DMMCACTN     (enum: 9)
 (a)     useidp      DMBOOL       (enum: 1)
         fid         DMMCC_FID    (ushort)
         parm        DMUNS16      (ushort)
     item1_1     DMTD_1ITEM   (struct)
         code        DMTD_CODE    (array [ 4 ] of unsigned char )
         act         DMMCACTN     (enum: 9)
 (b)     useidp      DMBOOL       (enum: 1)
         fid         DMMCC_FID    (ushort)
         parm        DMUNS16      (ushort)
     item1_2     DMTD_1ITEM   (struct)
         code        DMTD_CODE    (array [ 4 ] of unsigned char )
         act         DMMCACTN     (enum: 9)
 (c)     useidp      DMBOOL       (enum: 1)
         fid         DMMCC_FID    (ushort)
         parm        DMUNS16      (ushort)
     item1_3     DMTD_1ITEM   (struct)
         code        DMTD_CODE    (array [ 4 ] of unsigned char )
         act         DMMCACTN     (enum: 9)
 (d)     useidp      DMBOOL       (enum: 1)
         fid         DMMCC_FID    (ushort)
         parm        DMUNS16      (ushort)
     item1_4     DMTD_1ITEM   (struct)
         code        DMTD_CODE    (array [ 4 ] of unsigned char )
         act         DMMCACTN     (enum: 9)
 (e)     useidp      DMBOOL       (enum: 1)
```

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```
        fid         DMMCC_FID    (ushort)
        parm        DMUNS16      (ushort)
    item1_5     DMTD_1ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        act         DMMCACTN     (enum: 9)
(f)     useidp      DMBOOL       (enum: 1)
        fid         DMMCC_FID    (ushort)
        parm        DMUNS16      (ushort)
    item1_6     DMTD_1ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        act         DMMCACTN     (enum: 9)
(g)     useidp      DMBOOL       (enum: 1)
        fid         DMMCC_FID    (ushort)
        parm        DMUNS16      (ushort)
    item1_7     DMTD_1ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        act         DMMCACTN     (enum: 9)
(h)     useidp      DMBOOL       (enum: 1)
        fid         DMMCC_FID    (ushort)
        parm        DMUNS16      (ushort)
    item0_0     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(i)     useidp      DMBOOL       (enum: 1)
    item0_1     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(j)     useidp      DMBOOL       (enum: 1)
    item0_2     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(k)     useidp      DMBOOL       (enum: 1)
    item0_3     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(l)     useidp      DMBOOL       (enum: 1)
    item0_4     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(m)     useidp      DMBOOL       (enum: 1)
    item0_5     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(n)     useidp      DMBOOL       (enum: 1)
    item0_6     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
```

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```
(o)     useidp      DMBOOL       (enum: 1)
    item0_7     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(p)     useidp      DMBOOL       (enum: 1)
        User and Compacted Tuple Layout     TDAT_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 0 |*********************************|          gkTDAT_G             |
   |---------------+---------------+---------------+---------------|
   |       |       |                                               |
 4 |n_item0|n_item1|***********************************************|
   |===============+=========== item1_0 ===========+===============|
   |                                                                |
 8 |                               code                             |
   |---------------+---------------+---------------+---------------|
   |                 | |           |                               |
12 |       act       |a|***********|              fid              |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |              parm             |*******************************|
   |===============+=========== item1_1 ===========+===============|
   |                                                                |
20 |                               code                             |
   |---------------+---------------+---------------+---------------|
   |                 | |           |                               |
24 |       act       |b|***********|              fid              |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
28 |              parm             |*******************************|
   |===============+=========== item1_2 ===========+===============|
   |                                                                |
32 |                               code                             |
   |---------------+---------------+---------------+---------------|
   |                 | |           |                               |
36 |       act       |c|***********|              fid              |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
40 |              parm             |*******************************|
   |===============+=========== item1_3 ===========+===============|
   |                                                                |
44 |                               code                             |
   |---------------+---------------+---------------+---------------|
   |                 | |           |                               |
48 |       act       |d|***********|              fid              |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
52 |              parm             |*******************************|
   |===============+=========== item1_4 ===========+===============|
   |                                                                |
56 |                               code                             |
```

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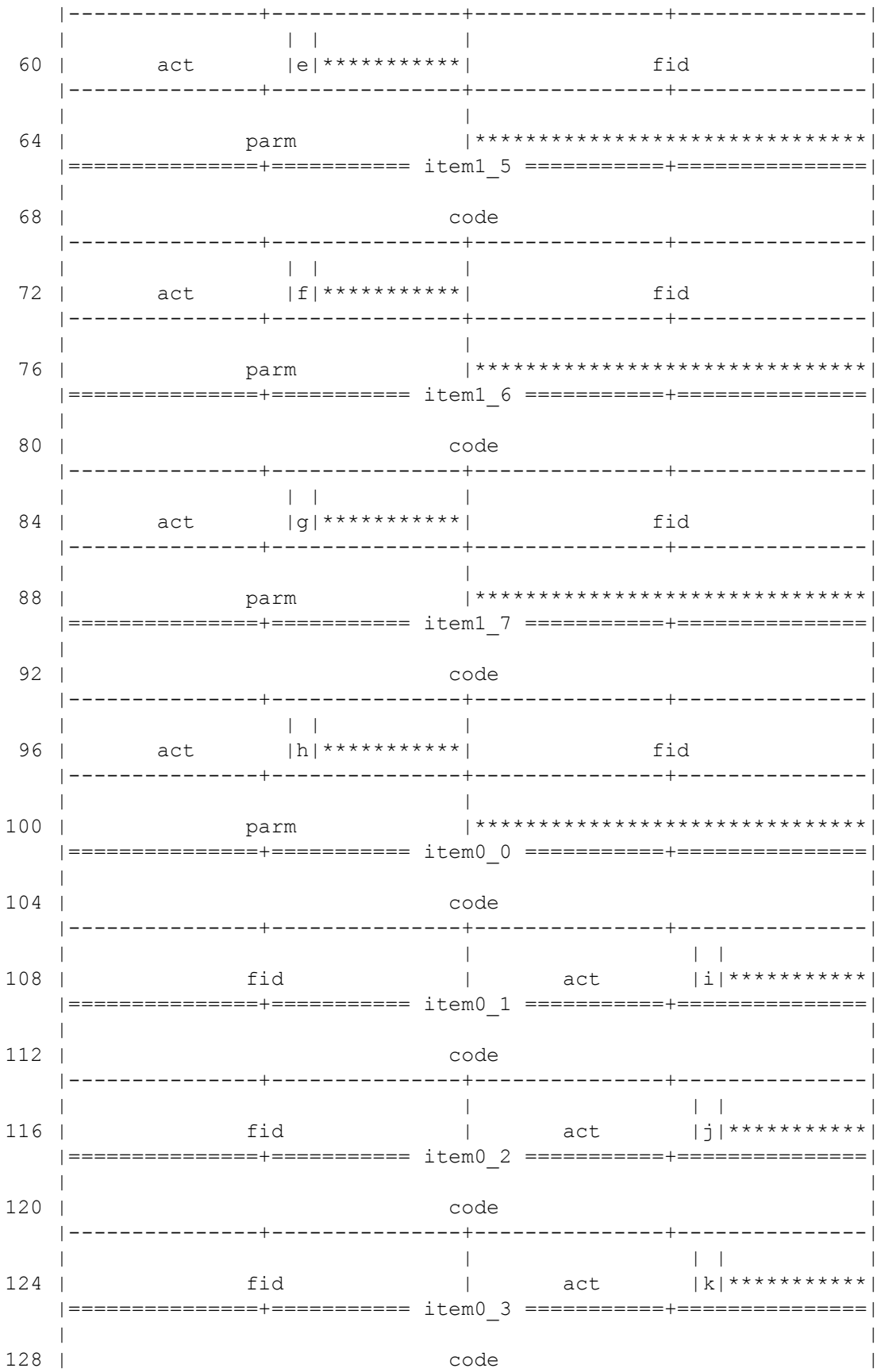


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```
    |--------------+--------------+--------------+--------------|
    |                             |                | |          |
132 |              fid            |       act      |l|**********|
    |==============+========== item0_4 ==========+==============|
    |                                                           |
136 |                             code                          |
    |--------------+--------------+--------------+--------------|
    |                             |                | |          |
140 |              fid            |       act      |m|**********|
    |==============+========== item0_5 ==========+==============|
    |                                                           |
144 |                             code                          |
    |--------------+--------------+--------------+--------------|
    |                             |                | |          |
148 |              fid            |       act      |n|**********|
    |==============+========== item0_6 ==========+==============|
    |                                                           |
152 |                             code                          |
    |--------------+--------------+--------------+--------------|
    |                             |                | |          |
156 |              fid            |       act      |o|**********|
    |==============+========== item0_7 ==========+==============|
    |                                                           |
160 |                             code                          |
    |--------------+--------------+--------------+--------------|
    |                             |                | |          |
164 |              fid            |       act      |p|**********|
    |==============+==============+==============+==============|
      ( 168 bytes )
    n_item0     DMTD_NITEM   (ushort: 4)
    n_item1     DMTD_NITEM   (ushort: 4)
    item1_0     DMTD_1ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        act         DMMCACTN     (enum: 9)
 (a)    useidp      DMBOOL       (enum: 1)
        fid         DMMCC_FID    (ushort)
        parm        DMUNS16      (ushort)
    item1_1     DMTD_1ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        act         DMMCACTN     (enum: 9)
 (b)    useidp      DMBOOL       (enum: 1)
        fid         DMMCC_FID    (ushort)
        parm        DMUNS16      (ushort)
    item1_2     DMTD_1ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        act         DMMCACTN     (enum: 9)
 (c)    useidp      DMBOOL       (enum: 1)
        fid         DMMCC_FID    (ushort)
        parm        DMUNS16      (ushort)
    item1_3     DMTD_1ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        act         DMMCACTN     (enum: 9)
 (d)    useidp      DMBOOL       (enum: 1)
        fid         DMMCC_FID    (ushort)
```

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```
        parm        DMUNS16      (ushort)
    item1_4     DMTD_1ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        act         DMMCACTN     (enum: 9)
(e)     useidp      DMBOOL       (enum: 1)
        fid         DMMCC_FID    (ushort)
        parm        DMUNS16      (ushort)
    item1_5     DMTD_1ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        act         DMMCACTN     (enum: 9)
(f)     useidp      DMBOOL       (enum: 1)
        fid         DMMCC_FID    (ushort)
        parm        DMUNS16      (ushort)
    item1_6     DMTD_1ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        act         DMMCACTN     (enum: 9)
(g)     useidp      DMBOOL       (enum: 1)
        fid         DMMCC_FID    (ushort)
        parm        DMUNS16      (ushort)
    item1_7     DMTD_1ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        act         DMMCACTN     (enum: 9)
(h)     useidp      DMBOOL       (enum: 1)
        fid         DMMCC_FID    (ushort)
        parm        DMUNS16      (ushort)
    item0_0     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(i)     useidp      DMBOOL       (enum: 1)
    item0_1     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(j)     useidp      DMBOOL       (enum: 1)
    item0_2     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(k)     useidp      DMBOOL       (enum: 1)
    item0_3     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(l)     useidp      DMBOOL       (enum: 1)
    item0_4     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(m)     useidp      DMBOOL       (enum: 1)
    item0_5     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
```

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```
(n)     useidp      DMBOOL       (enum: 1)
    item0_6     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(o)     useidp      DMBOOL       (enum: 1)
    item0_7     DMTD_0ITEM   (struct)
        code        DMTD_CODE    (array [ 4 ] of unsigned char )
        fid         DMMCC_FID    (ushort)
        act         DMMCACTN     (enum: 9)
(p)     useidp      DMBOOL       (enum: 1)
          Stored Tuple Layout   TDAT_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                         GK LINK FIELD                         |
   |---------------+---------------+---------------+---------------|
   |       |       |                                               |
 4 |n_item0|n_item1|***********************************************|
   |===============+=========== item1_0 ===========+===============|
   |                                                               |
 8 |                               code                            |
   |---------------+---------------+---------------+---------------|
   |                 | |           |                               |
12 |       act       |a|***********|              fid              |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |              parm             |*******************************|
   |===============+=========== item1_1 ===========+===============|
   |                                                               |
20 |                               code                            |
   |---------------+---------------+---------------+---------------|
   |                 | |           |                               |
24 |       act       |b|***********|              fid              |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
28 |              parm             |*******************************|
   |===============+=========== item1_2 ===========+===============|
   |                                                               |
32 |                               code                            |
   |---------------+---------------+---------------+---------------|
   |                 | |           |                               |
36 |       act       |c|***********|              fid              |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
40 |              parm             |*******************************|
   |===============+=========== item1_3 ===========+===============|
   |                                                               |
44 |                               code                            |
   |---------------+---------------+---------------+---------------|
   |                 | |           |                               |
48 |       act       |d|***********|              fid              |
   |---------------+---------------+---------------+---------------|
```

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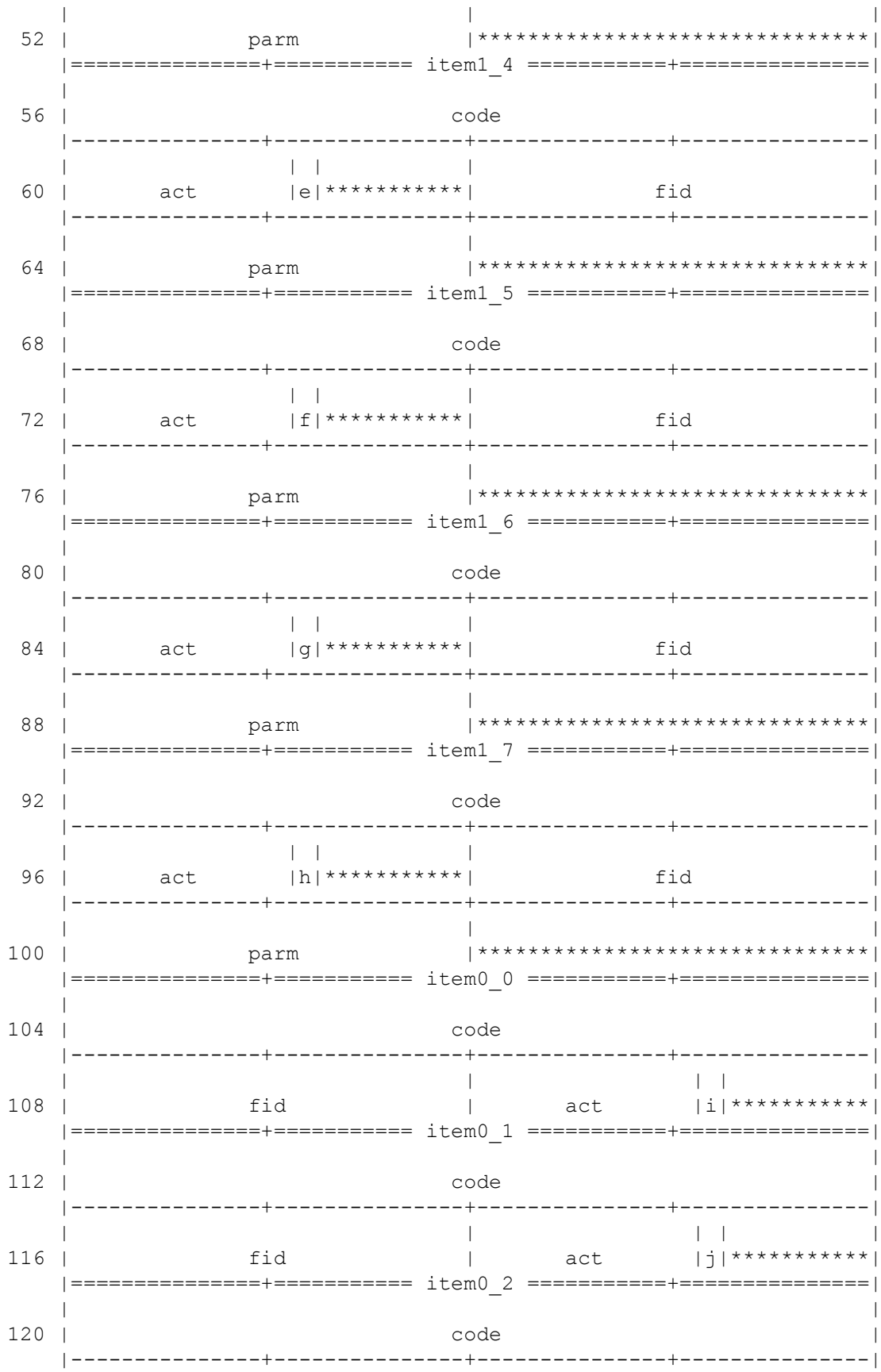


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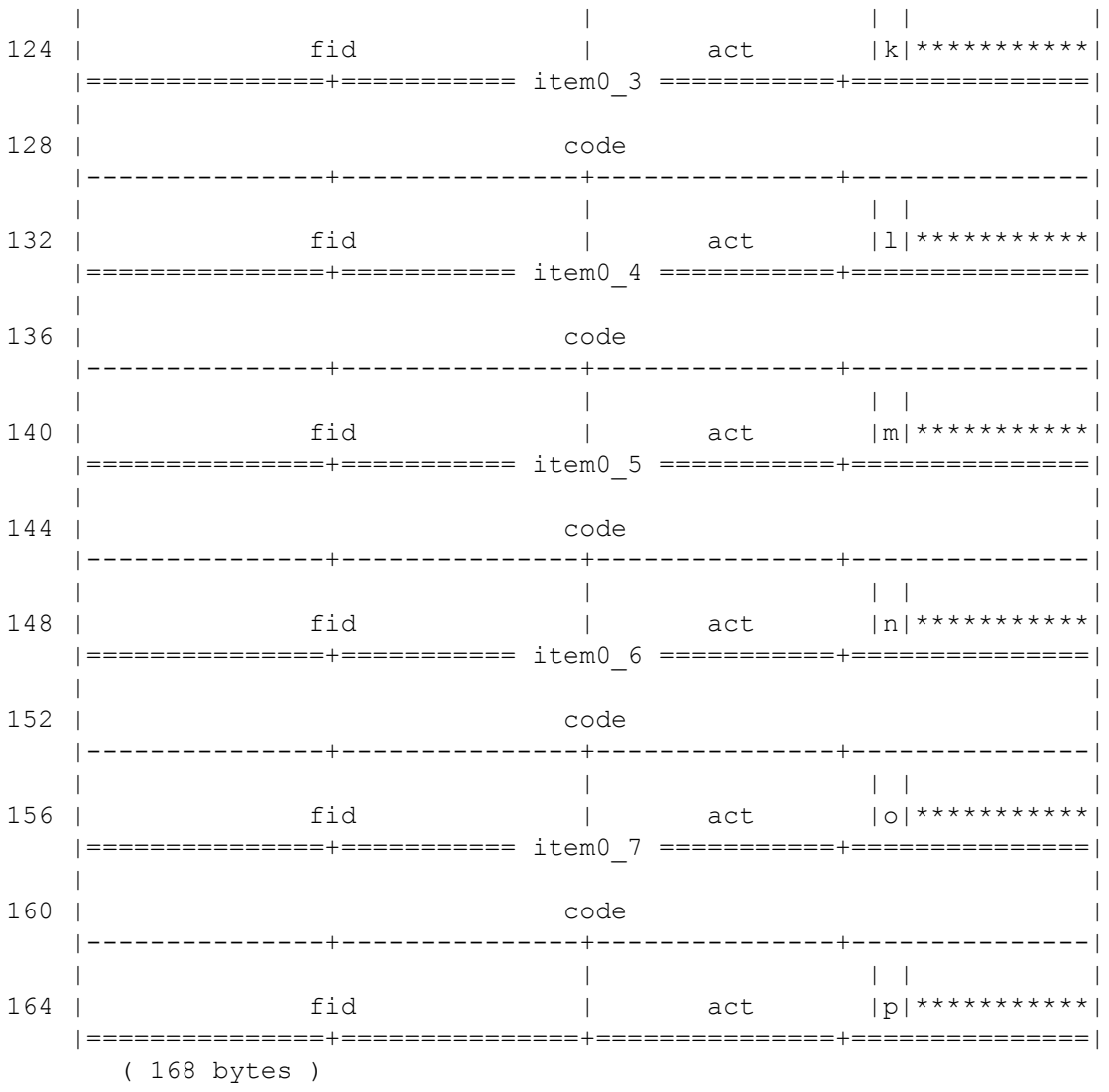


## 4. Population Rules for RLtdat_g

There are no population rules for this relation.

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# TDCD_R

## 1. Description

Time of day code list relation. This is a root storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 460800 |
| expected tuples in relation | 35 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTORAGE |
| density | 52 |

## 3. Field Layout

```
TDCD_R      relid = 1779  DBSTORAGE  DBACC_HASH  DBPRAM    FG      NULL
     td_id       DMMCC_FID    (ushort)  <--- key
     attlist     DMGK14       (ulong: 14)
     api         DMTD_NAP     (ushort: 6)  <--- key
         User, Compacted and Stored Tuple Layout TDCD_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |   |
  0 |             td_id             |          attlist              |***|
    |---------------+---------------+---------------+---------------|
    |           |                                                   |
  4 |    api    |***************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLtdcd_r

There are no population rules for this relation.

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# TDEC_CKT

## 1. Description

Tone decoder circuit names.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 768 |
| expected tuples in relation | 12 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 9 |

## 3. Field Layout

```
TDEC_CKT    relid = 96    DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     circuit     DMCIRCUIT    (ushort)  <--- key
     dummy       DMDUMMY      (ushort: 8)
         User, Compacted and Stored Tuple Layout   TDEC_CKT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |            circuit            |     dummy     |***************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLtdec_ckt

**Relation Description** This relation is used by measurements scanning procedures.

**Attribute: circuit**

**Fullname:** circuit name
**Attribute Description** Use first circuit name per each universal tone decoder.

**Attribute: dummy**

**Fullname:** dummy field use zero
**Attribute Description** Information concerning this section is not available at this time.

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# TDR_RTI

## 1. Description

Time dependent routing information. This relation is TORCable.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4095 |
| expected tuples in relation | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |
| corcable | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
TDR_RTI     relid = 2796  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    GCRTG
     irte_idx    DMRTEIDX     (ushort: 14)    <--- key
     orte_idx    DMRTEIDX     (ushort: 14)
         User, Compacted and Stored Tuple Layout    TDR_RTI
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                             |   |                             |   |
  0 |          irte_idx           |***|          orte_idx           |***|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLtdr_rti

**Relation Description** Time dependent routing information.
Time dependent routing information relation. RLtdr_rti is ancillary relation to RLtdr. RLtdr_rti is TORCable. TORC : Time Originated Recent Change.

**Attribute: irte_idx**

**Fullname:** Incoming route index

**Attribute Description** Incoming route index.

**Attribute: orte_idx**

**Fullname:** Outgoing route index

**Attribute Description** Outgoing route index.

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# TDR

## 1. Description

This Time dependent routing (TDR) relation allows definitions of time intervals where a route index is replaced by a new route index.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4095 |
| expected tuples in relation | 200 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |
| trigger function | RTtdr_trig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
TDR          relid = 2795  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    GCRTG
     rte_idx      DMRTEIDX      (ushort: 14)    <--- key
     intvl0       DMTDRINT      (struct)
 (a)      start_day    DMDAYOFWK     (enum: 4)
 (b)      start_time   DMHROFDAY     (uchar: 5)
          end_day      DMDAYOFWK     (enum: 4)
          end_time     DMHROFDAY     (uchar: 5)
          nrte_idx     DMRTEIDX      (ushort: 14)
 (c)      active       DMBOOL        (enum: 1)
     intvl1       DMTDRINT      (struct)
 (d)      start_day    DMDAYOFWK     (enum: 4)
 (e)      start_time   DMHROFDAY     (uchar: 5)
          end_day      DMDAYOFWK     (enum: 4)
          end_time     DMHROFDAY     (uchar: 5)
          nrte_idx     DMRTEIDX      (ushort: 14)
 (f)      active       DMBOOL        (enum: 1)
     intvl2       DMTDRINT      (struct)
 (g)      start_day    DMDAYOFWK     (enum: 4)
 (h)      start_time   DMHROFDAY     (uchar: 5)
          end_day      DMDAYOFWK     (enum: 4)
          end_time     DMHROFDAY     (uchar: 5)
          nrte_idx     DMRTEIDX      (ushort: 14)
 (i)      active       DMBOOL        (enum: 1)
     intvl3       DMTDRINT      (struct)
 (j)      start_day    DMDAYOFWK     (enum: 4)
 (k)      start_time   DMHROFDAY     (uchar: 5)
          end_day      DMDAYOFWK     (enum: 4)
          end_time     DMHROFDAY     (uchar: 5)
          nrte_idx     DMRTEIDX      (ushort: 14)
 (l)      active       DMBOOL        (enum: 1)
     intvl4       DMTDRINT      (struct)
```

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```
(m)     start_day   DMDAYOFWK    (enum: 4)
(n)     start_time  DMHROFDAY    (uchar: 5)
        end_day     DMDAYOFWK    (enum: 4)
        end_time    DMHROFDAY    (uchar: 5)
        nrte_idx    DMRTEIDX     (ushort: 14)
(o)     active      DMBOOL       (enum: 1)
    intvl5      DMTDRINT     (struct)
(p)     start_day   DMDAYOFWK    (enum: 4)
(q)     start_time  DMHROFDAY    (uchar: 5)
        end_day     DMDAYOFWK    (enum: 4)
        end_time    DMHROFDAY    (uchar: 5)
        nrte_idx    DMRTEIDX     (ushort: 14)
(r)     active      DMBOOL       (enum: 1)
    intvl6      DMTDRINT     (struct)
(s)     start_day   DMDAYOFWK    (enum: 4)
(t)     start_time  DMHROFDAY    (uchar: 5)
        end_day     DMDAYOFWK    (enum: 4)
        end_time    DMHROFDAY    (uchar: 5)
        nrte_idx    DMRTEIDX     (ushort: 14)
(u)     active      DMBOOL       (enum: 1)
    intvl7      DMTDRINT     (struct)
(v)     start_day   DMDAYOFWK    (enum: 4)
(w)     start_time  DMHROFDAY    (uchar: 5)
        end_day     DMDAYOFWK    (enum: 4)
        end_time    DMHROFDAY    (uchar: 5)
        nrte_idx    DMRTEIDX     (ushort: 14)
(x)     active      DMBOOL       (enum: 1)
    intvl8      DMTDRINT     (struct)
(y)     start_day   DMDAYOFWK    (enum: 4)
(z)     start_time  DMHROFDAY    (uchar: 5)
        end_day     DMDAYOFWK    (enum: 4)
        end_time    DMHROFDAY    (uchar: 5)
        nrte_idx    DMRTEIDX     (ushort: 14)
(A)     active      DMBOOL       (enum: 1)
    intvl9      DMTDRINT     (struct)
(B)     start_day   DMDAYOFWK    (enum: 4)
(C)     start_time  DMHROFDAY    (uchar: 5)
        end_day     DMDAYOFWK    (enum: 4)
        end_time    DMHROFDAY    (uchar: 5)
        nrte_idx    DMRTEIDX     (ushort: 14)
(D)     active      DMBOOL       (enum: 1)
    intvl10     DMTDRINT     (struct)
(E)     start_day   DMDAYOFWK    (enum: 4)
(F)     start_time  DMHROFDAY    (uchar: 5)
        end_day     DMDAYOFWK    (enum: 4)
        end_time    DMHROFDAY    (uchar: 5)
        nrte_idx    DMRTEIDX     (ushort: 14)
(G)     active      DMBOOL       (enum: 1)
    intvl11     DMTDRINT     (struct)
(H)     start_day   DMDAYOFWK    (enum: 4)
(I)     start_time  DMHROFDAY    (uchar: 5)
        end_day     DMDAYOFWK    (enum: 4)
        end_time    DMHROFDAY    (uchar: 5)
        nrte_idx    DMRTEIDX     (ushort: 14)
```

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```
(J)     active      DMBOOL       (enum: 1)
    intvl12     DMTDRINT     (struct)
(K)     start_day   DMDAYOFWK    (enum: 4)
(L)     start_time  DMHROFDAY    (uchar: 5)
        end_day     DMDAYOFWK    (enum: 4)
        end_time    DMHROFDAY    (uchar: 5)
        nrte_idx    DMRTEIDX     (ushort: 14)
(M)     active      DMBOOL       (enum: 1)
    intvl13     DMTDRINT     (struct)
(N)     start_day   DMDAYOFWK    (enum: 4)
(O)     start_time  DMHROFDAY    (uchar: 5)
        end_day     DMDAYOFWK    (enum: 4)
        end_time    DMHROFDAY    (uchar: 5)
        nrte_idx    DMRTEIDX     (ushort: 14)
(P)     active      DMBOOL       (enum: 1)
    intvl14     DMTDRINT     (struct)
(Q)     start_day   DMDAYOFWK    (enum: 4)
(R)     start_time  DMHROFDAY    (uchar: 5)
        end_day     DMDAYOFWK    (enum: 4)
        end_time    DMHROFDAY    (uchar: 5)
        nrte_idx    DMRTEIDX     (ushort: 14)
(S)     active      DMBOOL       (enum: 1)
    intvl15     DMTDRINT     (struct)
(T)     start_day   DMDAYOFWK    (enum: 4)
(U)     start_time  DMHROFDAY    (uchar: 5)
        end_day     DMDAYOFWK    (enum: 4)
        end_time    DMHROFDAY    (uchar: 5)
        nrte_idx    DMRTEIDX     (ushort: 14)
(V)     active      DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout    TDR
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |          rte_idx              |*******************************|
   |===============+===========  intvl0 ===========+===============|
   |       |       |         |     |       |       |         |     |
 4 |   a   |*******|    b    |*****|end_day|*******| end_time|*****|
   |---------------+---------------+---------------+---------------|
   |                               | |                             |
 8 |          nrte_idx             |c|*******************************|
   |===============+===========  intvl1 ===========+===============|
   |       |       |         |     |       |       |         |     |
12 |   d   |*******|    e    |*****|end_day|*******| end_time|*****|
   |---------------+---------------+---------------+---------------|
   |                               | |                             |
16 |          nrte_idx             |f|*******************************|
   |===============+===========  intvl2 ===========+===============|
   |       |       |         |     |       |       |         |     |
20 |   g   |*******|    h    |*****|end_day|*******| end_time|*****|
   |---------------+---------------+---------------+---------------|
   |                               | |                             |
24 |          nrte_idx             |i|*******************************|
   |===============+===========  intvl3 ===========+===============|
```

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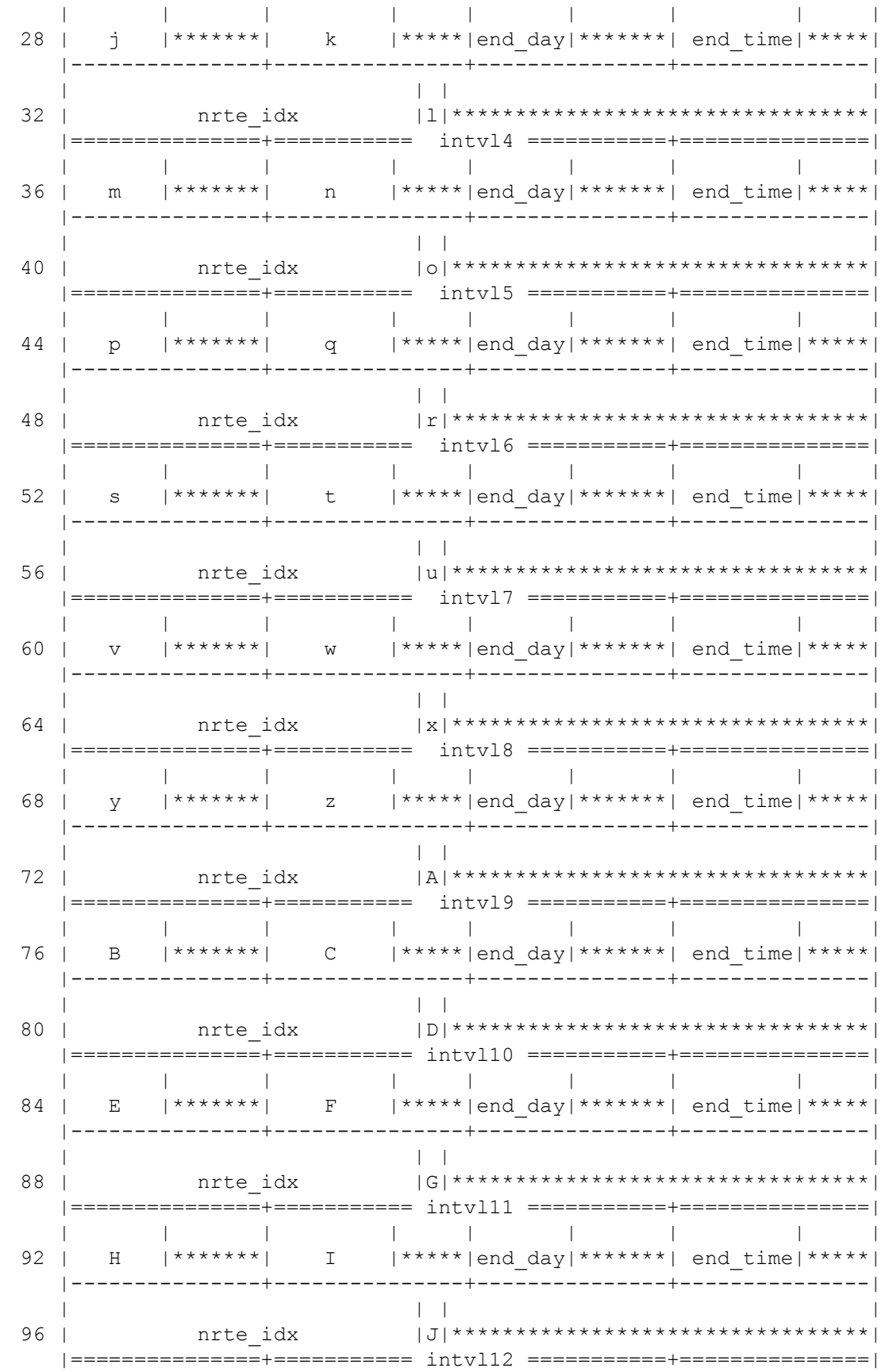
j
k
end_day
end_time
nrte_idx
l
intvl4
m
n
o
intvl5
p
q
r
intvl6
s
t
u
intvl7
v
w
x
intvl8
y
z
A
intvl9
B
C
D
intvl10
E
F
G
intvl11
H
I
J
intvl12

```
    |       |       |         |     |       |       |         |     |
100 |   K   |*******|    L    |*****|end_day|*******| end_time|*****|
    |-------------+-------------+-------------+-------------|
    |                           | |                         |
104 |          nrte_idx         |M|*************************|
    |===============+========== intvl13 ==========+=========|
    |       |       |         |     |       |       |         |     |
108 |   N   |*******|    O    |*****|end_day|*******| end_time|*****|
    |-------------+-------------+-------------+-------------|
    |                           | |                         |
112 |          nrte_idx         |P|*************************|
    |===============+========== intvl14 ==========+=========|
    |       |       |         |     |       |       |         |     |
116 |   Q   |*******|    R    |*****|end_day|*******| end_time|*****|
    |-------------+-------------+-------------+-------------|
    |                           | |                         |
120 |          nrte_idx         |S|*************************|
    |===============+========== intvl15 ==========+=========|
    |       |       |         |     |       |       |         |     |
124 |   T   |*******|    U    |*****|end_day|*******| end_time|*****|
    |-------------+-------------+-------------+-------------|
    |                           | |                         |
128 |          nrte_idx         |V|*************************|
    |===============+===============+===============+=========|
       ( 132 bytes )
domain alTDR      struct  (2 sub-attributes)
         rte_idx     .4.fake      (ushort: 14)
         intvl       .5.fake      (array [ 16 ] of .2fake )
 (a)         start_day   .0fake       (enum)
 (b)         start_time  .0.fake      (uchar: 5)
             end_day     .0fake       (enum)
             end_time    .1.fake      (uchar: 5)
             nrte_idx    .2.fake      (ushort: 14)
 (c)         active      .1fake       (enum)
         Structure Layout     alTDR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |-------------+-------------+-------------+-------------|
    |                           |                           |
  0 |          rte_idx          |***********************************|
    |===============+==========  intvl[0] ==========+=========|
    |       |       |         |     |       |       |         |     |
  4 |   a   |*******|    b    |*****|end_day|*******| end_time|*****|
    |-------------+-------------+-------------+-------------|
    |                           | |                         |
  8 |          nrte_idx         |c|*************************|
    |===============+==========  intvl[1] ==========+=========|
    |       |       |         |     |       |       |         |     |
 12 |   a   |*******|    b    |*****|end_day|*******| end_time|*****|
    |-------------+-------------+-------------+-------------|
    |                           | |                         |
 16 |          nrte_idx         |c|*************************|
    |===============+==========  intvl[2] ==========+=========|
    |       |       |         |     |       |       |         |     |
```

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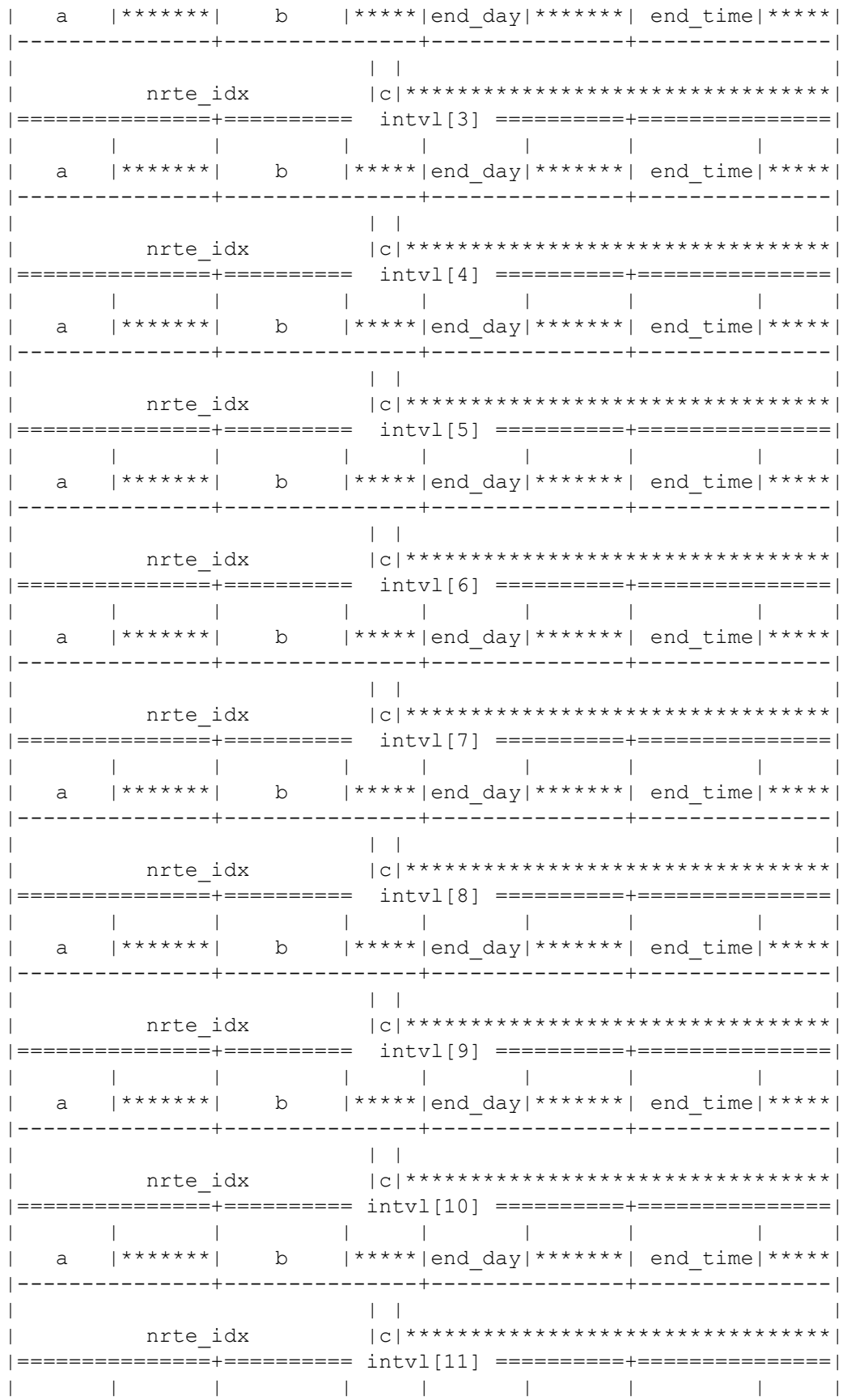


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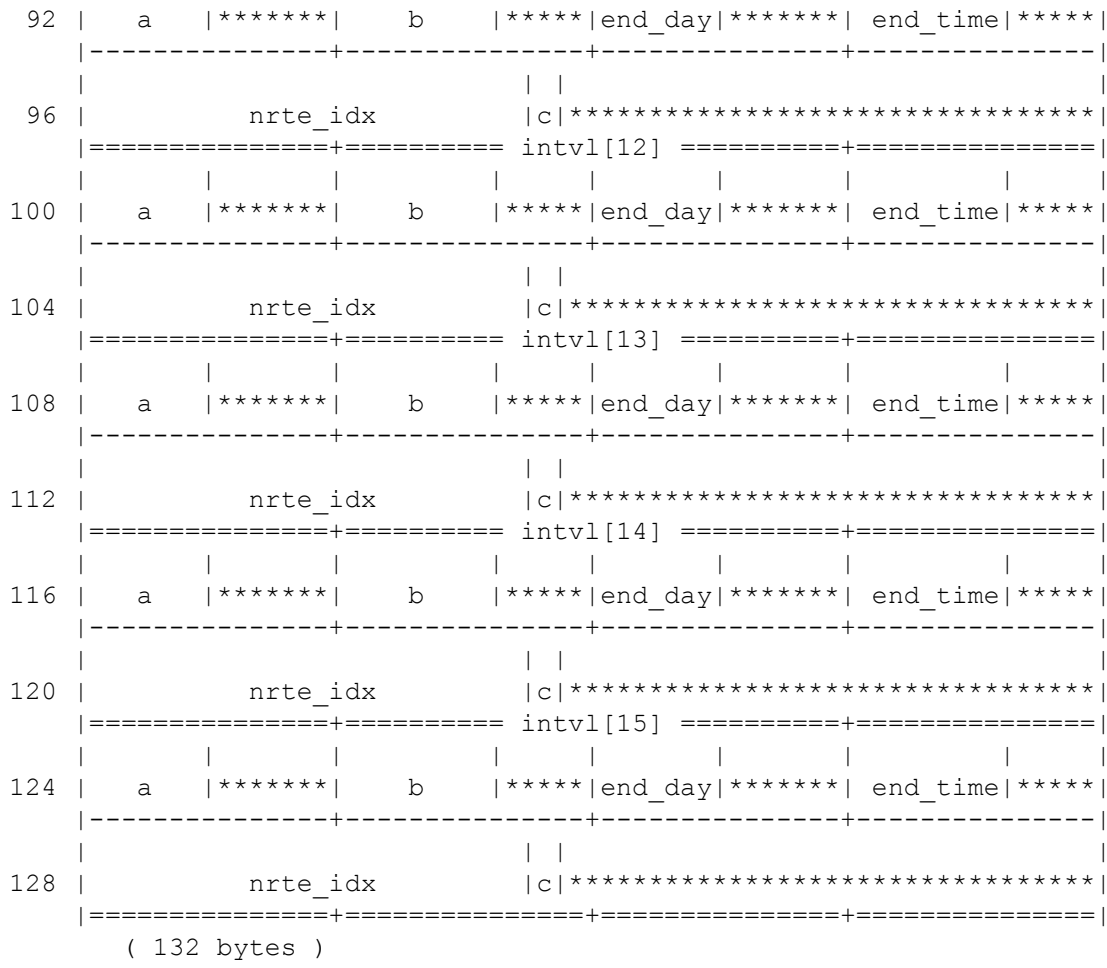

( 132 bytes )

## 4. Population Rules for RLtdr

**Relation Description** Time dependent routing information
Time dependent routing information relation. RLtdr contains time intervals which are used to alter routing.

The trigger function RTtdr_trig() will be associated with RC/V 10.39 for Time Dependent Routing.

**Attribute: rte_idx**

**Fullname:** Route index

**Attribute Description** Route index

**Attribute: intvl0**

**Fullname:** Time interval 0

**Attribute Description** Time interval 0

**Attribute: intvl1**

**Fullname:** Time interval 1

**Attribute Description** Time interval 1

**Attribute: intvl2**

**Fullname:** Time interval 2

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**Attribute Description** Time interval 2

**Attribute: intvl3**

**Fullname:** Time interval 3

**Attribute Description** Time interval 3

**Attribute: intvl4**

**Fullname:** Time interval 4

**Attribute Description** Time interval 4

**Attribute: intvl5**

**Fullname:** Time interval 5

**Attribute Description** Time interval 5

**Attribute: intvl6**

**Fullname:** Time interval 6

**Attribute Description** Time interval 6

**Attribute: intvl7**

**Fullname:** Time interval 7

**Attribute Description** Time interval 7

**Attribute: intvl8**

**Fullname:** Time interval 8

**Attribute Description** Time interval 8

**Attribute: intvl9**

**Fullname:** Time interval 9

**Attribute Description** Time interval 9

**Attribute: intvl10**

**Fullname:** Time interval 10

**Attribute Description** Time interval 10

**Attribute: intvl11**

**Fullname:** Time interval 11

**Attribute Description** Time interval 11

**Attribute: intvl12**

**Fullname:** Time interval 12

**Attribute Description** Time interval 12

**Attribute: intvl13**

**Fullname:** Time interval 13

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**Attribute Description** Time interval 13

**Attribute: intvl14**

**Fullname:** Time interval 14

**Attribute Description** Time interval 14

**Attribute: intvl15**

**Fullname:** Time interval 15

**Attribute Description** Time interval 15

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# TDSC_G

## 1. Description

This is the time of day code list GK storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 500 |
| expected tuples | 20 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTORAGE |
| head page size | 256 |
| intermediate page size | 256 |
| data page size | 512 |
| page level | 3 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel reverse index | rlTDSC_I |

## 3. Field Layout

```
TDSC_G      relid = 1776  DBSTORAGE  DBACC_GK    DBPRAM    FG      NULL
     gkTDSC_G    DMGK14        (ulong: 14) <--- key, not stored
     acctgpid    DMFACID       (ushort)
     athgpid     DMFACID       (ushort)
     athdtgpid   DMFACID       (ushort)
     acvt_gpid   DMFACID       (ushort)
     idpgpid     DMIDP_GPID    (ushort)
     arsgpid     DMMCC_FID     (ushort)
     ardtgpid    DMMCC_FID     (ushort)
     max_ap      DMTD_NAP      (ushort: 6)
     max0p       DMTD_NCODE    (ushort: 4)
     max1p       DMTD_NCODE    (ushort: 4)
 (a) lpt_type    DMLPT_TYPE    (enum: 2)
 (b) active      DMBOOL        (enum: 1)
 (c) armed       DMBOOL        (enum: 1)
 (d) valid       DMBOOL        (enum: 1)
 (e) cntrlln     DMBOOL        (enum: 1)
 (f) cntrltk     DMBOOL        (enum: 1)
 (g) cntrlars    DMBOOL        (enum: 1)
 (h) cntrlidp    DMBOOL        (enum: 1)
 (i) cntrlacct   DMBOOL        (enum: 1)
 (j) cntrlath    DMBOOL        (enum: 1)
 (k) cntrlacvt   DMBOOL        (enum: 1)
 (l) ltsb_alwd   DMBOOL        (enum: 1)
     ap00        DMTD_AP       (struct)
         ows         DMTD_OWS      (ushort: 7)
         at          DMTD_AT       (ushort: 7)
     ap01        DMTD_AP       (struct)
         ows         DMTD_OWS      (ushort: 7)
         at          DMTD_AT       (ushort: 7)
     ap02        DMTD_AP       (struct)
         ows         DMTD_OWS      (ushort: 7)
         at          DMTD_AT       (ushort: 7)
```

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```
ap03        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap04        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap05        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap06        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap07        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap08        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap09        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap10        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap11        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap12        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap13        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap14        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap15        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap16        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap17        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap18        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap19        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap20        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
```

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```
    ap21        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap22        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap23        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap24        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap25        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap26        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap27        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap28        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap29        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap30        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap31        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
        User and Compacted Tuple Layout     TDSC_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 0 |*********************************|          gkTDSC_G             |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 4 |             acctgpid            |             athgpid           |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 8 |           athdtgpid             |           acvt_gpid           |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
12 |             idpgpid             |             arsgpid           |
   |---------------+---------------+---------------+---------------|
   |                                 |           |       |       |   |
16 |             ardtgpid            |   max_ap  | max0p | max1p | a |
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | |                                         |
20 |b|c|d|e|f|g|h|i|j|k|l|*****************************************|
```

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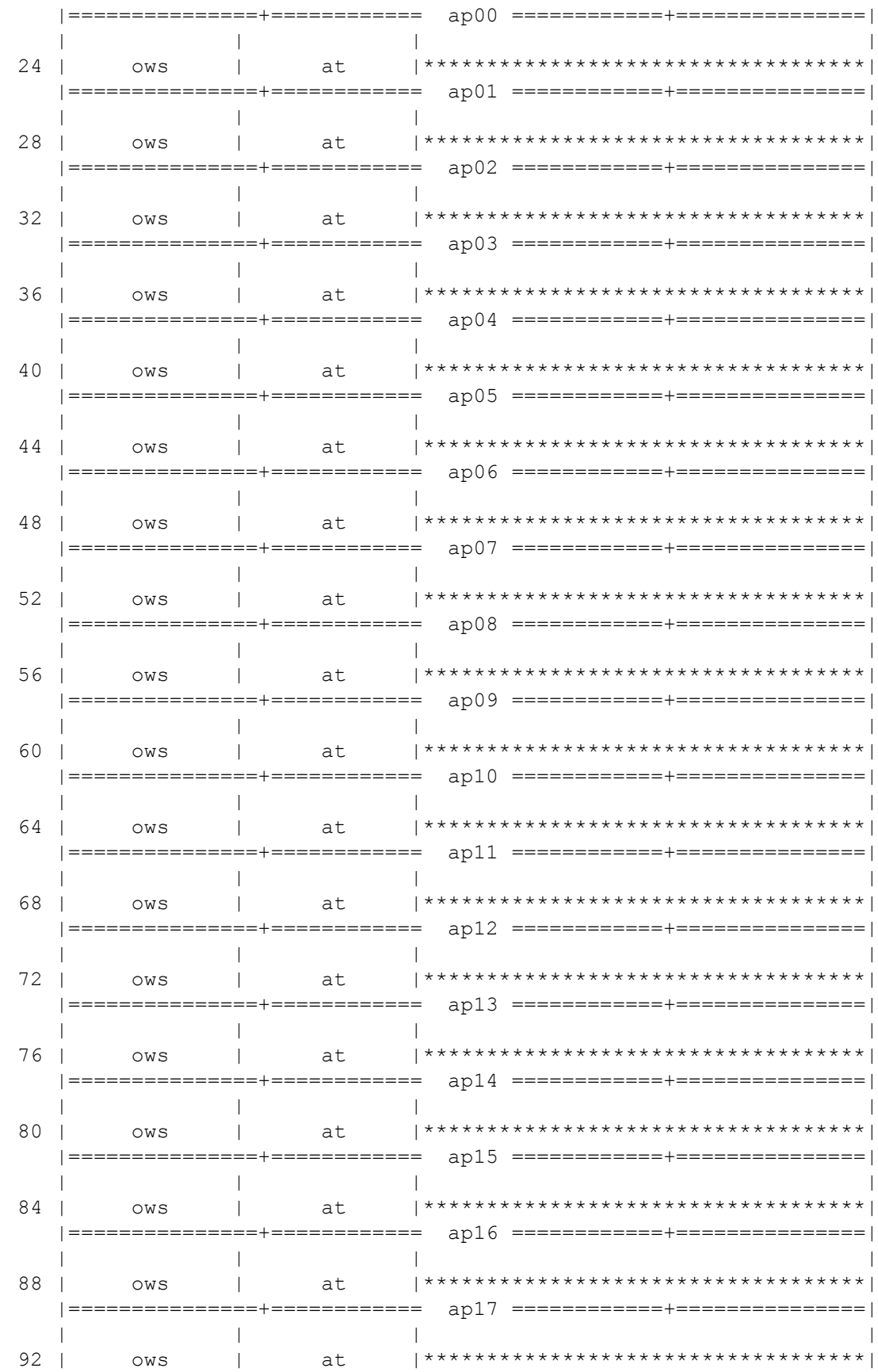


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```
    |===============+============  ap18 ============+===============|
    |               |            |                                    |
 96 |     ows       |      at    |************************************|
    |===============+============  ap19 ============+===============|
    |               |            |                                    |
100 |     ows       |      at    |************************************|
    |===============+============  ap20 ============+===============|
    |               |            |                                    |
104 |     ows       |      at    |************************************|
    |===============+============  ap21 ============+===============|
    |               |            |                                    |
108 |     ows       |      at    |************************************|
    |===============+============  ap22 ============+===============|
    |               |            |                                    |
112 |     ows       |      at    |************************************|
    |===============+============  ap23 ============+===============|
    |               |            |                                    |
116 |     ows       |      at    |************************************|
    |===============+============  ap24 ============+===============|
    |               |            |                                    |
120 |     ows       |      at    |************************************|
    |===============+============  ap25 ============+===============|
    |               |            |                                    |
124 |     ows       |      at    |************************************|
    |===============+============  ap26 ============+===============|
    |               |            |                                    |
128 |     ows       |      at    |************************************|
    |===============+============  ap27 ============+===============|
    |               |            |                                    |
132 |     ows       |      at    |************************************|
    |===============+============  ap28 ============+===============|
    |               |            |                                    |
136 |     ows       |      at    |************************************|
    |===============+============  ap29 ============+===============|
    |               |            |                                    |
140 |     ows       |      at    |************************************|
    |===============+============  ap30 ============+===============|
    |               |            |                                    |
144 |     ows       |      at    |************************************|
    |===============+============  ap31 ============+===============|
    |               |            |                                    |
148 |     ows       |      at    |************************************|
    |===============+===============+===============+===============|
      ( 152 bytes )
    acctgpid    DMFACID      (ushort)
    athgpid     DMFACID      (ushort)
    athdtgpid   DMFACID      (ushort)
    acvt_gpid   DMFACID      (ushort)
    idpgpid     DMIDP_GPID   (ushort)
    arsgpid     DMMCC_FID    (ushort)
    ardtgpid    DMMCC_FID    (ushort)
    max_ap      DMTD_NAP     (ushort: 6)
    max0p       DMTD_NCODE   (ushort: 4)
    max1p       DMTD_NCODE   (ushort: 4)
```

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```
(a) lpt_type    DMLPT_TYPE   (enum: 2)
(b) active      DMBOOL       (enum: 1)
(c) armed       DMBOOL       (enum: 1)
(d) valid       DMBOOL       (enum: 1)
(e) cntrlln     DMBOOL       (enum: 1)
(f) cntrltk     DMBOOL       (enum: 1)
(g) cntrlars    DMBOOL       (enum: 1)
(h) cntrlidp    DMBOOL       (enum: 1)
(i) cntrlacct   DMBOOL       (enum: 1)
(j) cntrlath    DMBOOL       (enum: 1)
(k) cntrlacvt   DMBOOL       (enum: 1)
(l) ltsb_alwd   DMBOOL       (enum: 1)
    ap00        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap01        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap02        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap03        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap04        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap05        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap06        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap07        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap08        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap09        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap10        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap11        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap12        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
    ap13        DMTD_AP      (struct)
        ows         DMTD_OWS     (ushort: 7)
        at          DMTD_AT      (ushort: 7)
```

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```
ap14        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap15        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap16        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap17        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap18        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap19        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap20        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap21        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap22        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap23        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap24        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap25        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap26        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap27        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap28        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap29        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap30        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
ap31        DMTD_AP      (struct)
    ows         DMTD_OWS     (ushort: 7)
    at          DMTD_AT      (ushort: 7)
```

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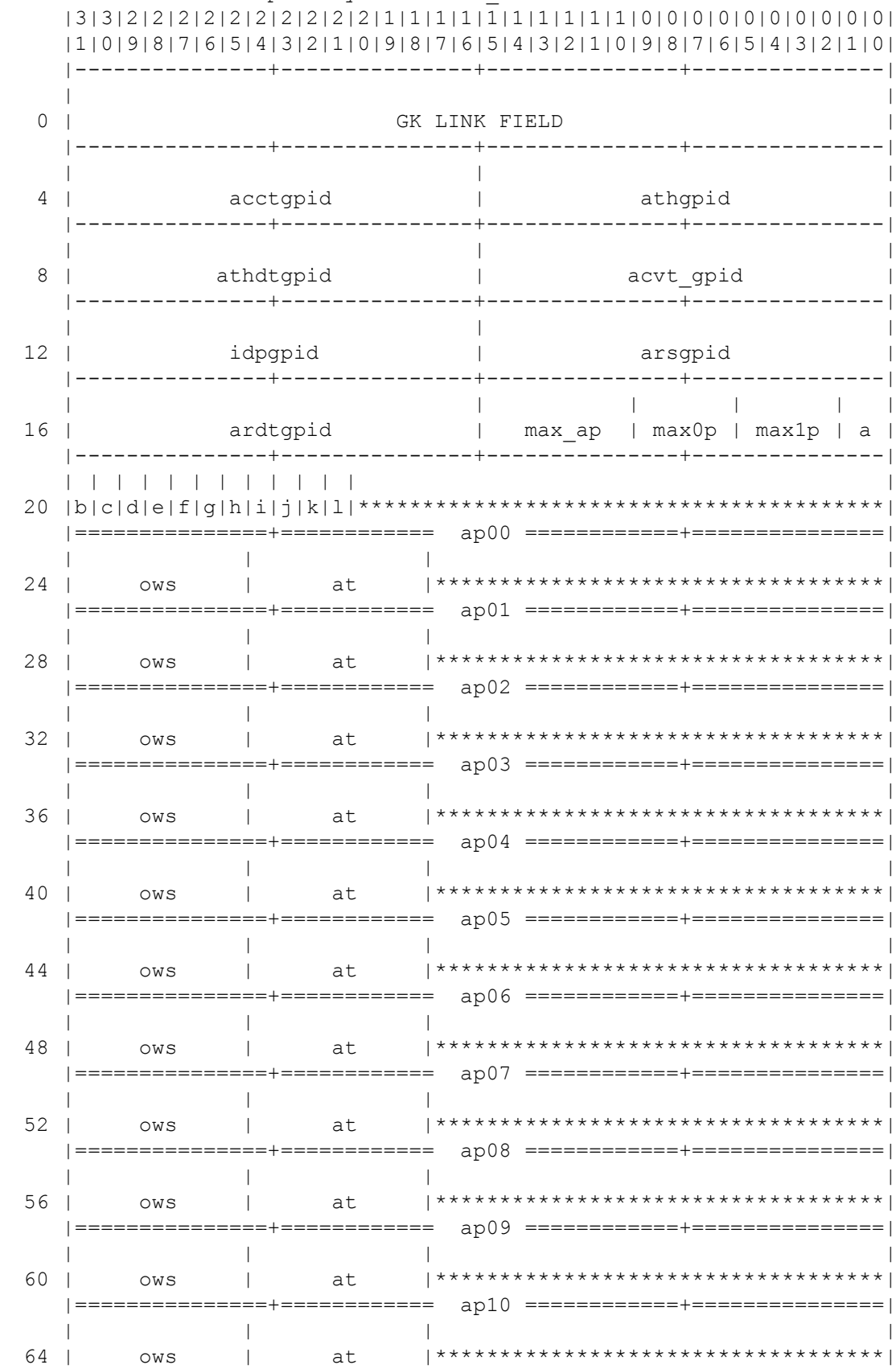
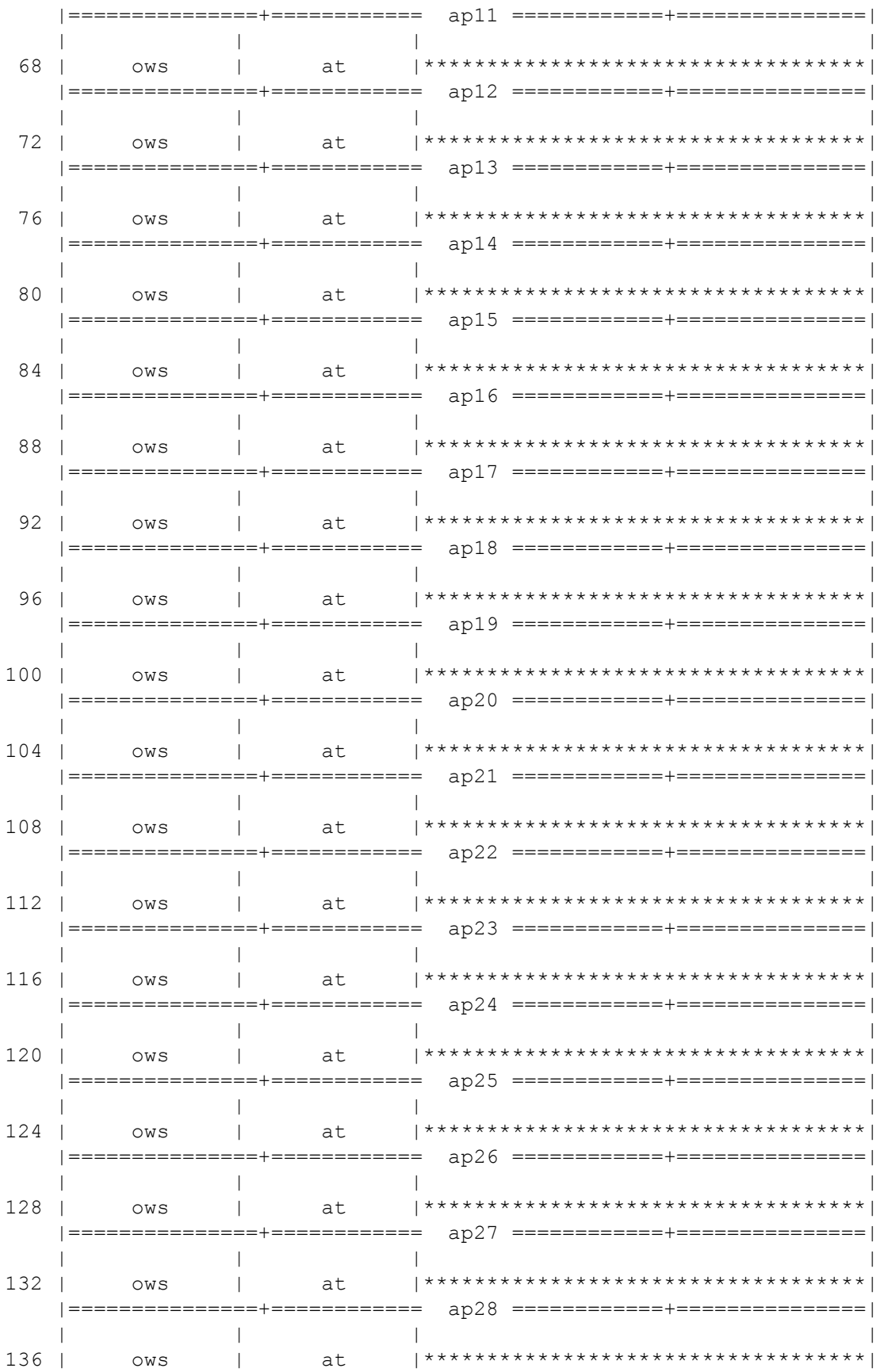
Stored Tuple Layout TDSC_G



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```
    |===============+============  ap29 ============+===============|
    |               |              |                                  |
140 |     ows       |      at      |**********************************|
    |===============+============  ap30 ============+===============|
    |               |              |                                  |
144 |     ows       |      at      |**********************************|
    |===============+============  ap31 ============+===============|
    |               |              |                                  |
148 |     ows       |      at      |**********************************|
    |===============+===============+===============+===============|
       ( 152 bytes )
```

## 4. Population rules for RLtdsc_g

### Relation Description

There are no population rules for this relation.

# TDSC_R

## 1. Description

Time of day code list relation. This is a root storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected tuples in relation | 5 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTORAGE |

## 3. Field Layout

```
TDSC_R      relid = 1777  DBSTORAGE  DBACC_HASH  DBPRAM    FG      NULL
     td_id       DMMCC_FID    (ushort)  <--- key
     lport       DMLPORT      (ushort: 16)
     attlist     DMGK14       (ulong: 14)
     lport_mod   DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout TDSC_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             td_id             |             lport             |
    |---------------+---------------+---------------+---------------|
    |                           |   |               |               |
  4 |          attlist          |***|   lport_mod   |***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLtdsc_r

There are no population rules for this relation.

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# TDXCARTB

## 1. Description

This relation contains the toll Digital Exchange Carrier Table.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 130 |
| expected tuples | 20 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
TDXCARTB    relid = 2595  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL


    tdx_carr    DMBCARID     (ushort: 14)      <--- key
 (a) ncd         DMBOOL       (enum: 1)
 (b) ii_screen   DMBOOL       (enum: 1)
    carrid      DMBCARID     (ushort: 14)
 (c) ffcf7       DMUNS2       (ushort: 2)
    screen_x    DMSCRNIDX    (ushort: 12)
 (d) ffcf1       DMBOOL       (enum: 1)
 (e) ffcf2       DMBOOL       (enum: 1)
 (f) ffcf3       DMBOOL       (enum: 1)
 (g) ffcf4       DMBOOL       (enum: 1)
    tnsc        DMTNSC       (ushort: 10)
    acclen      DMUNS5       (ushort: 5)
 (h) presub      DMBOOL       (enum: 1) <--- key
    trignum     DMUNS8       (ushort: 8)
    ffcf5       DMUNS8       (ushort: 8)
    digtree     DMDA_TREE    (ushort: 7)
        User, Compacted and Stored Tuple Layout   TDXCARTB
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                             | | |                             |   |
 0 |          tdx_carr           |a|b|           carrid            | c |
   |---------------+---------------+---------------+---------------|
   |                       | | | | |                   |         | |
 4 |        screen_x       |d|e|f|g|        tnsc       |  acclen |h|
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 8 |    trignum    |     ffcf5     |   digtree     |*****************|
   |---------------+---------------+---------------+---------------|
      ( 12 bytes )
```

## 4. Population rules for RLtdxcartb

### Relation Description

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Feature data of carriers for which the Toll Platform Service Provider offers transport service. This is also known as the LDP (Long Distance Platform) Carrier Table.

This relation contains the defaults for ANI (Automatic Number Identification) Table processing for TDX (Toll Digital Exchange) calls which used the specified carrier.

The relations RLldpindx, RLanidx[XXX] and RLtdxcartb are related and are used together to determine how LDP calls are processed.

Note: Terminology was changed from "Toll Digital Exchange (TDX)" to "Long Distance Platform (LDP)". The database still contains names with "tdx" whereas the customers will see "ldp" on ODA forms and RC views.

**Attribute:**
tdx_carr
**Fullname:**
toll digital exchange carrier id
**Attribute Description:**
This is a carrier id for which the Toll Platform Service Provider offers transport service. Specifications for ANI Table Processing of all calls to this carrier are stored in the tuple keyed by tdx_carr.

**Attribute:**
presub
**Fullname:**
presubscribed bit
**Attribute Description:**
DBYES indicates that the caller is presubscribed to this carrier (tdx_carr). DBNO indicates that the caller is not presubscribed to this carrier (tdx_carr).

**Attribute:**
digtree
**Fullname:**
digit analysis selector
**Attribute Description:**
Default DAS for TDX call. Must be populated with a valid line DAS. This digtree will be used when there is no digtree in an ANI table entry.

**Attribute:**
ncd
**Fullname:**
network call denial

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**Attribute Description:**
Default NCD for TDX call. A DBNO indicates the call is allowed, a DBYES indicates the call should be routed to final handling treatment.

**Attribute:**
acclen
**Fullname:**
account code length
**Attribute Description:**
Default ACCLEN for TDX call. This field indicates number of account code digits to be entered by the caller. A value of zero indicates caller has no account code feature assigned. A non-zero value up to 15 indicates the maximum number of digits that may be entered by the caller. The entered digits appear in the AMA record for the call, if one is generated. No validation is performed on the entered digits. The default value of this field is zero(0).

**Attribute:**
trignum
**Fullname:**
SCP trigger number
**Attribute Description:**
Default TRIGGER for TDX call. Contain ASP trigger number value ranging from 0-255. If the field is 0, no SCP query will be sent. If the field is 1-255, the number will indicate the AIN R0.1 Trigger Number to use for the SCP query.

NOTE: The trignum value assigned in Default ANI table must be a valid ASP Trigger Number as defined by Recent Change View 9.35 (RLns_trig).

**Attribute:**
carrid
**Fullname:**
Carrier id for fixed carrier routing
**Attribute Description:**
Carrier id used for fixed carrier routing on FC_LATA_CONN trunks which are marked tdx_trk=Y on RC View 5.1 (RLrctgrprk). This field is optional. If the service provider does not want the call to be routed based on digit analysis then carrier id should be populated. The call will be routed via carrier id's route indices.

**Attribute:**
screen_x
**Fullname:**

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screening index

**Attribute Description:**

Normally associated with a line or trunk, the screening index allows for different billing rates and routing. The default value for screen_x is zero (0), meaning not populated.

**Attribute:**

tnsc

**Fullname:**

Terminating Network Selection Code

**Attribute Description:**

Used to segregate traffic for MINT signaling

**Attribute:**

ii_screen

**Fullname:**

Information digits screening indicator

**Attribute Description:**

When this indicator is set to DBYES, the ANI data should be taken from the RLiidigits relation

**Attribute:**

ffcf1

**Fullname:**

Boolean reserved for future field feature

**Attribute Description:**

See fullname description

**Attribute:**

ffcf2

**Fullname:**

Boolean reserved for future field feature

**Attribute Description:**

See fullname description

**Attribute:**

ffcf3

**Fullname:**

Boolean reserved for future field feature

**Attribute Description:**

See fullname description

**Attribute:**

ffcf4

**Fullname:**

Boolean reserved for future field feature

**Attribute Description:**

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See fullname description

**Attribute:**
ffcf5
**Fullname:**
Unsigned short (8) reserved for future field feature
**Attribute Description:**
See fullname description

**Attribute:**
ffcf7
**Fullname:**
Unsigned short (2) reserved for future field feature
**Attribute Description:**
See fullname description

**Defines:**
"db/DMcarr_val.h",
"db/DMtnsc.h"

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# TERA_MS

## 1. Description

Trunk error analysis relation created to store the values for peer groups (trunk groups) having measurement counts pegged on them.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 20 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | LP |
| application | TERA |
| relation type | DBSTATIC |
| trigger function | MS24dbtrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
TERA_MS     relid = 81    DBSTATIC   DBACC_LIN   DBPRAM    LP      TERA
     peerid      DMGRPNUM     (ushort)  <--- key
     xshort      DMSHORT      (short)
         User, Compacted and Stored Tuple Layout    TERA_MS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             peerid            |             xshort            |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLtera_ms

**Relation Description** This relation holds the trunk group number of a trunk group that is having measurement counts pegged. This relation is populated using recent change (RC).

**Attribute: peerid**

**Fullname:** Trunk Group number
**Attribute Description** The trunk group number that is having measurements pegged.

**Attribute: xshort**

**Fullname:** Spare attribute.
**Attribute Description** This field is a spare attribute that could be used for the expansion of RLtera_ms in the future.

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# TERMCADN

## 1. Description

This static relation resides in every SM but is only used in ISDN SMs. It contains 1 tuple for every set of call appearances for EKTS(TM) CACH Standard Terminals (up to 2047).

The key for this relation is the logical port (lport) number and is 13 bits in length. The most significant bit (MSB) of each subaddr attribute corresponds to the highest number of the given range (except for the subaddr7 attribute where the MSB is reserved / not used). The MSB of the subaddr7 attribute is always zero. The least significant bit (LSB) of each subaddr attribute corresponds to the lowest number of the given range (except for the subaddr0 attribute where the LSB is reserved / not used). The LSB of the subaddr0 attribute is always zero.

The lport value used for this relation is always of type LPT_ISDN.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8192 |
| expected tuples in relation | 2048 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | DBNO |
| permutation type | unperm |

## 3. Field Layout

```
TERMCADN    relid = 2041  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     lport       DMLPORT      (ushort: 16)  <--- key, not stored
     subaddr0    DMCFGBM      (ulong)
     subaddr1    DMCFGBM      (ulong)
     subaddr2    DMCFGBM      (ulong)
     subaddr3    DMCFGBM      (ulong)
     subaddr4    DMCFGBM      (ulong)
     subaddr5    DMCFGBM      (ulong)
     subaddr6    DMCFGBM      (ulong)
     subaddr7    DMCFGBM      (ulong)
     spare1      DMUSHORT     (ushort)
     spare2      DMUCHAR      (uchar)
 (a) spare3      DMBOOL       (enum: 1)
 (b) spare4      DMBOOL       (enum: 1)
     spare5      DMUNS6       (ushort: 6)
         User and Compacted Tuple Layout   TERMCADN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              lport            |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            subaddr0                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                            subaddr1                           |
    |---------------+---------------+---------------+---------------|
```

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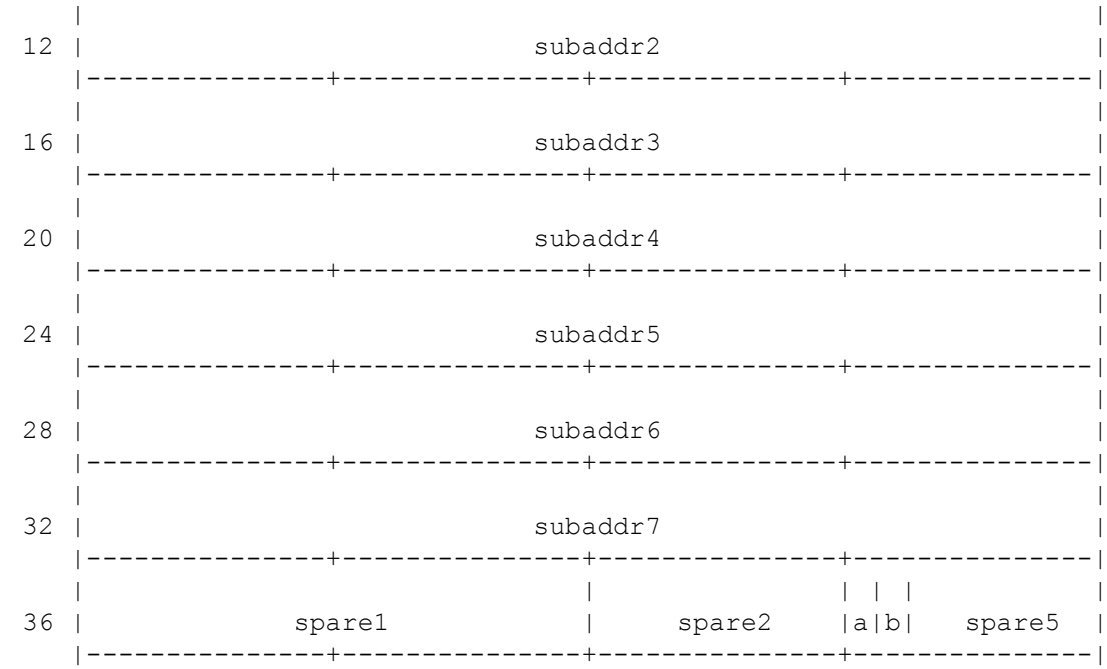
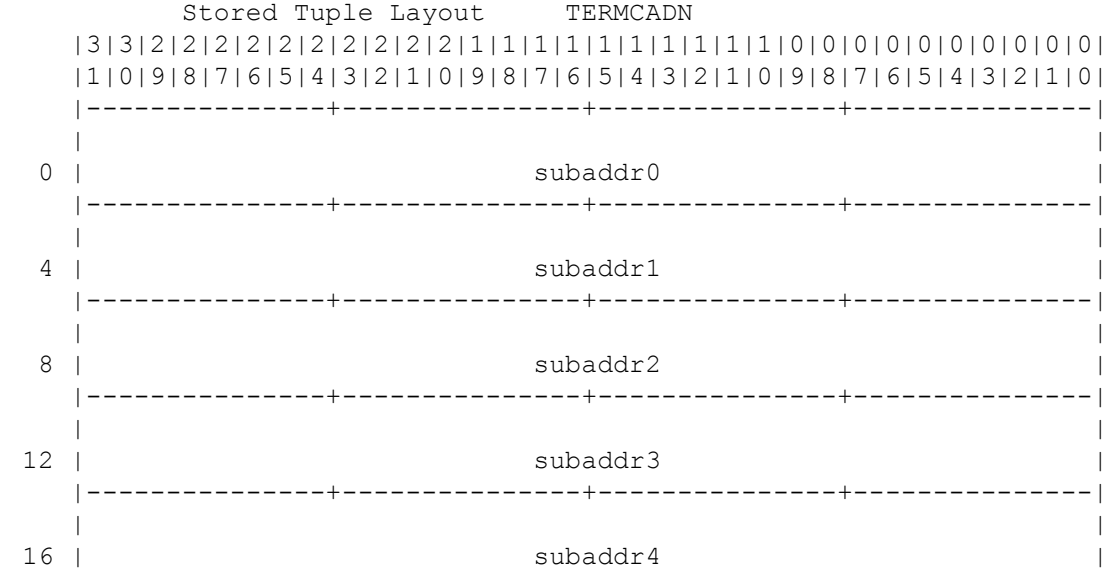



( 40 bytes )

```
    subaddr0    DMCFGBM      (ulong)
    subaddr1    DMCFGBM      (ulong)
    subaddr2    DMCFGBM      (ulong)
    subaddr3    DMCFGBM      (ulong)
    subaddr4    DMCFGBM      (ulong)
    subaddr5    DMCFGBM      (ulong)
    subaddr6    DMCFGBM      (ulong)
    subaddr7    DMCFGBM      (ulong)
    spare1      DMUSHORT     (ushort)
    spare2      DMUCHAR      (uchar)
(a) spare3      DMBOOL       (enum: 1)
(b) spare4      DMBOOL       (enum: 1)
    spare5      DMUNS6       (ushort: 6)
```

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```
    |--------------+--------------+--------------+--------------|
    |                                                           |
 20 |                           subaddr5                        |
    |--------------+--------------+--------------+--------------|
    |                                                           |
 24 |                           subaddr6                        |
    |--------------+--------------+--------------+--------------|
    |                                                           |
 28 |                           subaddr7                        |
    |--------------+--------------+--------------+--------------|
    |                              |              | | |          |
 32 |             spare1           |     spare2   |a|b|  spare5  |
    |--------------+--------------+--------------+--------------|
       ( 36 bytes )
domain alTERMCADN   struct  (7 sub-attributes)
         lport       unsigned short (ushort)
         sub_addr    .1.fake      (array [ 8 ] of unsigned long )
         spare1      unsigned short (ushort)
         spare2      unsigned char (uchar)
 (a)     spare3      .0fake       (enum)
 (b)     spare4      .0fake       (enum)
         spare5      .2.fake      (ushort: 6)

         Structure Layout      alTERMCADN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |--------------+--------------+--------------+--------------|
    |                              |                             |
  0 |             lport            |*****************************|
    |--------------+--------------+--------------+--------------|
    |                                                           |
  4 |                           sub_addr                        |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                           |
  8 |                           sub_addr                        |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                           |
 12 |                           sub_addr                        |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                           |
 16 |                           sub_addr                        |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                           |
 20 |                           sub_addr                        |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                           |
 24 |                           sub_addr                        |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                           |
 28 |                           sub_addr                        |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                           |
 32 |                           sub_addr                        |
    |--------------+--------------+--------------+--------------|
```

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```
    |                                |               | | |           |
 36 |             spare1             |     spare2    |a|b|   spare5   |
    |--------------+---------------+---------------+---------------|
       ( 40 bytes )
```

## 4. Population Rules for RLtermcadn

**Relation Description** Standard terminal call appearance DN/MLHG member assignment.
This relation contains a tuple for every set of call appearances of an EKTS(TM) CACH standard terminal provisioned on a ISDN SM in the office. The relation is to be populated by lport for every circuit switched standard terminal (that is, the lport type can only be LPT_ISDN).
The relation stores a 256 bit array for each EKTS(TM) CACH standard terminal where the bits 0 and 255 are unused. All other bits (1 through 254) are used to indicate whether or not this call appearance is the first call appearance of a DN/MLHG member on this terminal. There can be up to 64 DN/MLHG members on a terminal and each DN/MLHG member can have up to 16 call appearances up to a maximum of 254 call appearances per terminal.
The 256 bit array is broken into eight 32-bit 'bitmaps' as follows:

```
attribute subaddr0 stores sub-address 31 - 1 (0 is unused)
attribute subaddr1 stores sub-address 63 - 32
attribute subaddr2 stores sub-address 95 - 64
attribute subaddr3 stores sub-address 127 - 96
attribute subaddr4 stores sub-address 159 - 128
attribute subaddr5 stores sub-address 191 - 160
attribute subaddr6 stores sub-address 223 - 192
attribute subaddr7 stores sub-address 254 - 224 (255 is reserved)
```

Note that subaddr0 does not use the least significant bit (LSB), zero, and subaddr7 does not use the most significant bit (MSB), 255. Also note that the MSB of each attribute contains the highest number in the range of valid numbers.

**Attribute: lport**

**Fullname:** Logical Port number
**Attribute Description** This attribute contains the Circuit Switched user logical port number of each Standard Terminal D-channel on this SM that has sub-address 0 assigned. The lport must be related to a circuit switched Terminal only (lport type equal LPT_ISDN).
The range of values is from 1 through 8191 since zero is not valid.

**Attribute: subaddr0**

**Fullname:** bitmap 0 indicating Sub Address 31 through 1 assigned
**Attribute Description** This attribute is a bitmap that indicates whether sub-address 0 on a EKTS(TM) CACH Standard Terminal is assigned to a call appearance. This bitmap stores bits corresponding to call appearances 31 through 1. The Least Significant Bit (bit position 0) must always be zero. See the relation description for more information.
If the sub-address is for a call appearance that is linked to an intercom group, that bit must be set to zero (unassigned).

**Attribute: subaddr1**

**Fullname:** bitmap 1 indicating Sub Address 63 through 32 assigned
**Attribute Description** This attribute is a bitmap that indicates whether sub-address 0 on a EKTS(TM) CACH Standard Terminal is assigned to a call appearance. This bitmap stores bits corresponding to call appearances 63 through 32. See the relation description for more information.

If the sub-address is for a call appearance that is linked to an intercom group, that bit must be set to zero (unassigned).

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**Attribute: subaddr2**

**Fullname:** bitmap 2 indicating Sub Address 95 through 64 assigned
**Attribute Description** This attribute is a bitmap that indicates whether sub-address 0 on a EKTS(TM) CACH Standard Terminal is assigned to a call appearance. This bitmap stores bits corresponding to call appearances 95 through 64. See the relation description for more information.

If the sub-address is for a call appearance that is linked to an intercom group, that bit must be set to zero (unassigned).

**Attribute: subaddr3**

**Fullname:** bitmap 3 indicating Sub Address 127 through 96 assigned
**Attribute Description** This attribute is a bitmap that indicates whether sub-address 0 on a EKTS(TM) CACH Standard Terminal is assigned to a call appearance. This bitmap stores bits corresponding to call appearances 127 through 96. See the relation description for more information.
If the sub-address is for a call appearance that is linked to an intercom group, that bit must be set to zero (unassigned).

**Attribute: subaddr4**

**Fullname:** bitmap 4 indicating Sub Address 159 through 128 assigned
**Attribute Description** This attribute is a bitmap that indicates whether sub-address 0 on a EKTS(TM) CACH Standard Terminal is assigned to a call appearance. This bitmap stores bits corresponding to call appearances 159 through 128. See the relation description for more information.
If the sub-address is for a call appearance that is linked to an intercom group, that bit must be set to zero (unassigned).

**Attribute: subaddr5**

**Fullname:** bitmap 5 indicating sub address 191 through 160 assigned
**Attribute Description** This attribute is a bitmap that indicates whether sub-address 0 on a EKTS(TM) CACH Standard Terminal is assigned to a call appearance. This bitmap stores bits corresponding to call appearances 191 through 160. See the relation description for more information.
If the sub-address is for a call appearance that is linked to an intercom group, that bit must be set to zero (unassigned).

**Attribute: subaddr6**

**Fullname:** bitmap 6 indicating Sub Address 223 through 192 assigned
**Attribute Description** This attribute is a bitmap that indicates whether sub-address 0 on a EKTS(TM) CACH Standard Terminal is assigned to a call appearance. This bitmap stores bits corresponding to call appearances 223 through 192. See the relation description for more information.
If the sub-address is for a call appearance that is linked to an intercom group, that bit must be set to zero (unassigned).

**Attribute: subaddr7**

**Fullname:** bitmap 7 indicating Sub Address 254 through 224 assigned
**Attribute Description** This attribute is a bitmap that indicates whether sub-address 0 on a EKTS(TM) CACH standard terminal is assigned to a call appearance. This bitmap stores bits corresponding to call appearances 254 through 224. The most significant bit (bit position 31) must always be zero. See the relation description for more information.
If the sub-address is for a call appearance that is linked to an intercom group, that bit must be set to zero (unassigned).

**Attribute: spare1**

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**Fullname:** spare attribute for future use
**Attribute Description** spare attribute for future use

**Attribute: spare2**
**Fullname:** spare attribute for future use
**Attribute Description** spare attribute for future use

**Attribute: spare3**
**Fullname:** spare attribute for future use
**Attribute Description** spare attribute for future use

**Attribute: spare4**
**Fullname:** spare attribute for future use
**Attribute Description** spare attribute for future use

**Attribute: spare5**
**Fullname:** spare attribute for future use
**Attribute Description** spare attribute for future use

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# TERMKYDN

## 1. Description

Provides terminal and call appearance conversion to DN, subaddress.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 131056 |
| expected number of tuples | 1172 |
| density | 83 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | TMtermkydn |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| foldtype | DBGC31 |

## 3. Field Layout

```
TERMKYDN    relid = 869   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     lport       DMLPORT      (ushort: 16)  <--- key
     ltm_idxi    DMLTM_IDX    (ulong: 16)
     ca          DMCALLAP     (uchar: 8)  <--- key
     lead_module  DMMODULE     (ushort: 8)
     subaddr     DMSUBADDR    (uchar: 4)
 (a) termno      DMTERMNO     (uchar: 1)  <--- key
         User, Compacted and Stored Tuple Layout   TERMKYDN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              lport            |            ltm_idxi           |
    |---------------+---------------+---------------+---------------|
    |                |               |       | |                    |
  4 |       ca       |  lead_module  |subaddr|a|********************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLtermkydn

**Relation Description** Provides terminal and call appearance conversion to DN, subaddress.

**Attribute: lport**

**Fullname:** logical port.
**Attribute Description** Logical port number of the D-channel associated with the BRI port. Must have an entry in RLis_term with this key of lport and termno.

**Attribute: termno**

**Fullname:** terminal number.
**Attribute Description** Terminal number for this BRI. The terminal number associated with this directory number or multi-line hunt line.

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**Attribute: ca**

**Fullname:** Call Appearance number.
**Attribute Description** All CA's must be consecutive for a given combination of module and port and dn. All CA's cannot be overlapped. If RLis_term.cpetype = IS_TYPEATT, IS_TYPEB or IS_TYPED, the ca represents a physical button number of the call appearance button. If RLis_term.cpetype = IS_TYPEC, the ca represents a logical call appearance number.

**Attribute: lead_module**

**Fullname:** lead module.
**Attribute Description** Lead module for the ltm_idxi associated with this call appearance.

**Attribute: ltm_idxi**

**Fullname:** Logical termination index.
**Attribute Description** logical termination index.

**Attribute: subaddr**

**Fullname:** sub-address.
**Attribute Description** Identifies the subaddress associated with this DN, call appearance, and terminal combination. This value will be assigned sequentially starting at zero, for example, if there exist RLtermkydn.subaddr=1 there is a RLtermkydn.subaddr=0 with the same value for ltm_idxi.
Dependencies:

```
If RLis_line(lead_module, ltm_idxi).shared
        == DBNO
then RLis_line(same keys).frst_ca + subaddr
        must equal ca.
else (shared == DBYES)
        find the right RLshterm element in
        RLshterm(lead_module,
                ltm_idxi,
                0 or 1).sharedX
        where X may 1,2,3 or 4 such that
        RLshterm().sharedX.lport = lport
        and
        RLshterm().sharedX.module = Gl_pcrid
        and
        RLshterm().sharedX.termno = termno
        RLshterm().sharedX.frst_ca + subaddr
          must equal ca
If RLfc_porttyp(RLlpt_pt(lport,lpt_type=
   LPT_ISDN).port).sh_analog = DBYES, then subaddr = 0.
```

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# TFANI_II

## 1. Description

This relation maps existing ANI II digits for NS800 calls.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| expected tuples in relation | 20 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | FR |
| application type | RCMAP |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
TFANI_II    relid = 3184  DBSTATIC   DBACC_DHSH  DBPRAM    FR      RCMAP


     orig_ii     DMUNS7       (ushort: 7)       <--- key
     tf_ii       DMUNS7       (ushort: 7)
     default_ii  DMUNS7       (ushort: 7)
         User, Compacted and Stored Tuple Layout   TFANI_II
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |   |               |           |
  0 |   orig_ii     |    tf_ii      |***|  default_ii   |***********|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population rules for RLtfani_ii

### Relation Description

ANI II Digits mapping Relation.

This relation is used by the Pay Phone Compensation for Toll Free Calls and Toll Free Calling Enhancements for Flexible ANI features (99-5E-4868/99-CP-4847). These features are secured by SFID 332.

**Attribute:**

orig_ii

**Fullname:**

Original ANI II digits.

**Attribute Description:**

This field stores the II digits that have been determined to be used for the call. These II digits will be mapped for NS800 calls, if SFID 332 is active and if the carrier allows the II digits to be mapped

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**Attribute:**
tf_ii
**Fullname:**
Toll Free ANI II digits.
**Attribute Description:**
This field is used to map the Original ANI II digits in the case of an NS800 translated call.

**Attribute:**
default_ii
**Fullname:**
Default ANI II digits.
**Attribute Description:**
This field is used to map the Original ANI II digits in the case of a Non-translated NS800 call.

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# TG_CF

## 1. Description

Terminal group constructed feature, used in IM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head page size | 256 |
| intermediate page size | 256 |
| data page size | 256 |
| page level | 3 |
| ks key store | DBNO |

## 3. Field Layout

```
TG_CF       relid = 447   DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     feat_id     DMMCC_FID    (ushort)  <--- key, not stored
     actvn       DMMC_ACTYP   (enum: 3)
 (a) sr_orig     DMTG_SRTYP   (enum: 3)
 (b) ffcf1       DMBOOL       (enum: 1)
 (c) ffcf2       DMBOOL       (enum: 1)
 (d) sr_odef     DMTG_SRTYP   (enum: 3)
 (e) o_errtrt    DMMC_ERTRT   (enum: 3)
 (f) dctvn       DMMC_DCTYP   (enum: 2)
 (g) sr_term     DMTG_SRTYP   (enum: 3)
 (h) sr_tdef     DMTG_SRTYP   (enum: 3)
 (i) ffcf3       DMBOOL       (enum: 1)
 (j) t_errtrt    DMMC_ERTRT   (enum: 3)
        User and Compacted Tuple Layout  TG_CF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            feat_id            |*******************************|
   |---------------+---------------+---------------+---------------|
   |     |     | | |     |     |   |     |     | | |     |         |
 4 |actvn|  a  |b|c|  d  |  e  | f |  g  |  h  |i|*|  j  |*********|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )
     actvn       DMMC_ACTYP   (enum: 3)
 (a) sr_orig     DMTG_SRTYP   (enum: 3)
 (b) ffcf1       DMBOOL       (enum: 1)
 (c) ffcf2       DMBOOL       (enum: 1)
 (d) sr_odef     DMTG_SRTYP   (enum: 3)
 (e) o_errtrt    DMMC_ERTRT   (enum: 3)
 (f) dctvn       DMMC_DCTYP   (enum: 2)
 (g) sr_term     DMTG_SRTYP   (enum: 3)
 (h) sr_tdef     DMTG_SRTYP   (enum: 3)
 (i) ffcf3       DMBOOL       (enum: 1)
 (j) t_errtrt    DMMC_ERTRT   (enum: 3)
```

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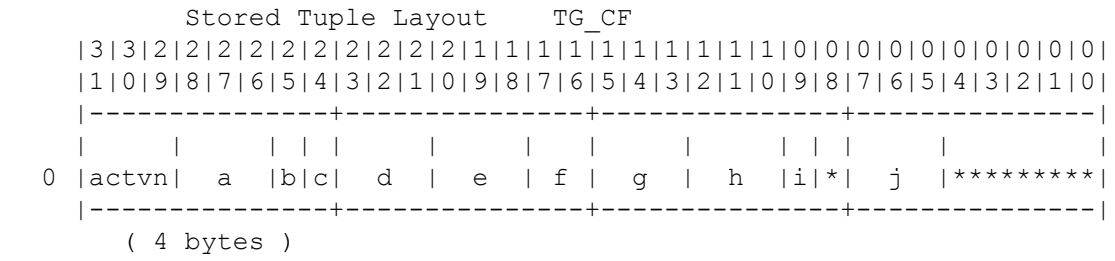


## 4. Population Rules for RLtg_cf

**Relation Description** Terminal group constructed feature.

**Attribute: feat_id**

**Fullname:** Feature id

**Attribute Description** This attribute is the key to this relation and uniquely identifies the MCC constructed feature.

**Attribute: actvn**

**Fullname:** Activation

**Attribute Description** Indicates method of activating MCC features. The two attributes (actions), activation and deactivation, together determine the customer options for the feature. The allowed options are as shown in the following layout:

| Combination | Act/Deact | Activation | Deactivation | |
|---|---|---|---|---|
| 1. Always active | | ACTNONE | DCTNONE | |
| 2. Customer selected | | ACTCD | DCTCD | activation/deactivation |
| 3. Customer selected | | ACTCD | DCTAUTO | activation/deactivation for one call only |

**Attribute: dctvn**

**Fullname:** Deactivation

**Attribute Description** Indicates method of deactivating MCC features. The two attributes (actions), activation and deactivation, together determine the customer options for the feature. The allowed options are as shown in the previous table for attribute actvn.

**Attribute: sr_orig**

**Fullname:** Originating station restriction

**Attribute Description** This attribute describes the station restriction for an originating terminal with station restriction active.

**Attribute: sr_odef**

**Fullname:** Originating station restriction default

**Attribute Description** This attribute describes the station restriction for an originating terminal with station restriction deactivated.

**Attribute: o_errtrt**

**Fullname:** Originating terminal error treatment

**Attribute Description** This attribute describes the error treatment for an originating terminal when

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a call is blocked due to station restriction.

**Attribute: sr_term**

**Fullname:** Station restriction for a terminating terminal

**Attribute Description** This attribute describes the station restriction for a terminating terminal with station restriction activated.

**Attribute: sr_tdef**

**Fullname:** Station restriction for a terminating terminal default

**Attribute Description** This attribute describes the station restriction for a terminating terminal with station restriction deactivated.

**Attribute: t_errtrt**

**Fullname:** Terminating terminal error treatment

**Attribute Description** This attribute describes the error treatment for a terminating terminal when a call is blocked due to station restriction.

**Attribute: ffcf[*]**

**Fullname:** Future field feature

**Attribute Description** The three attributes, ffcf1 through ffcf3, are booleans reserved for future field feature use.

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# TG_CFDFL

## 1. Description

Terminal group constructed feature and default parameters, used in the AM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| expected tuples in relation | 30 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |
| density | 38 |

## 3. Field Layout

```
TG_CFDFL    relid = 448   DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     feat_id     DMMCC_FID    (ushort)  <--- key
     tg_id       DMUNS16      (ushort)
     o_an_ind    DMSYSID      (short)
     t_an_ind    DMSYSID      (short)
     actvn       DMMC_ACTYP   (enum: 3)
 (a) sr_orig     DMTG_SRTYP   (enum: 3)
 (b) moh_act     DMBOOL       (enum: 1)
 (c) ffcf1       DMBOOL       (enum: 1)
 (d) sr_odef     DMTG_SRTYP   (enum: 3)
 (e) o_errtrt    DMMC_ERTRT   (enum: 3)
 (f) dctvn       DMMC_DCTYP   (enum: 2)
 (g) sr_term     DMTG_SRTYP   (enum: 3)
 (h) sr_tdef     DMTG_SRTYP   (enum: 3)
 (i) cnigi       DMCNIGI      (enum: 2)
 (j) t_errtrt    DMMC_ERTRT   (enum: 3)
 (k) ffcf2       DMBOOL       (enum: 1)
 (l) ffcf3       DMBOOL       (enum: 1)
 (m) disp_rstrct  DMCUSTRST    (enum: 1)
     o_fwdtdn    DMEDN32      (struct)  <--- compacted
         dcnt32      DMDCNT32     (ushort: 6)
         edn32       DMEDIGSTR    (array [ 32 ] of char )
     t_fwdtdn    DMEDN32      (struct)  <--- compacted
         dcnt32      DMDCNT32     (ushort: 6)
         edn32       DMEDIGSTR    (array [ 32 ] of char )
            User Tuple Layout      TG_CFDFL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |            feat_id             |             tg_id             |
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  4 |            o_an_ind            |            t_an_ind           |
    |---------------+---------------+---------------+---------------|
    |     |     | | |     |     |   |     |     |   |     | | | |   |
  8 |actvn|  a  |b|c|  d  |  e  | f |  g  |  h  | i |  j  |k|l|m|***|
```

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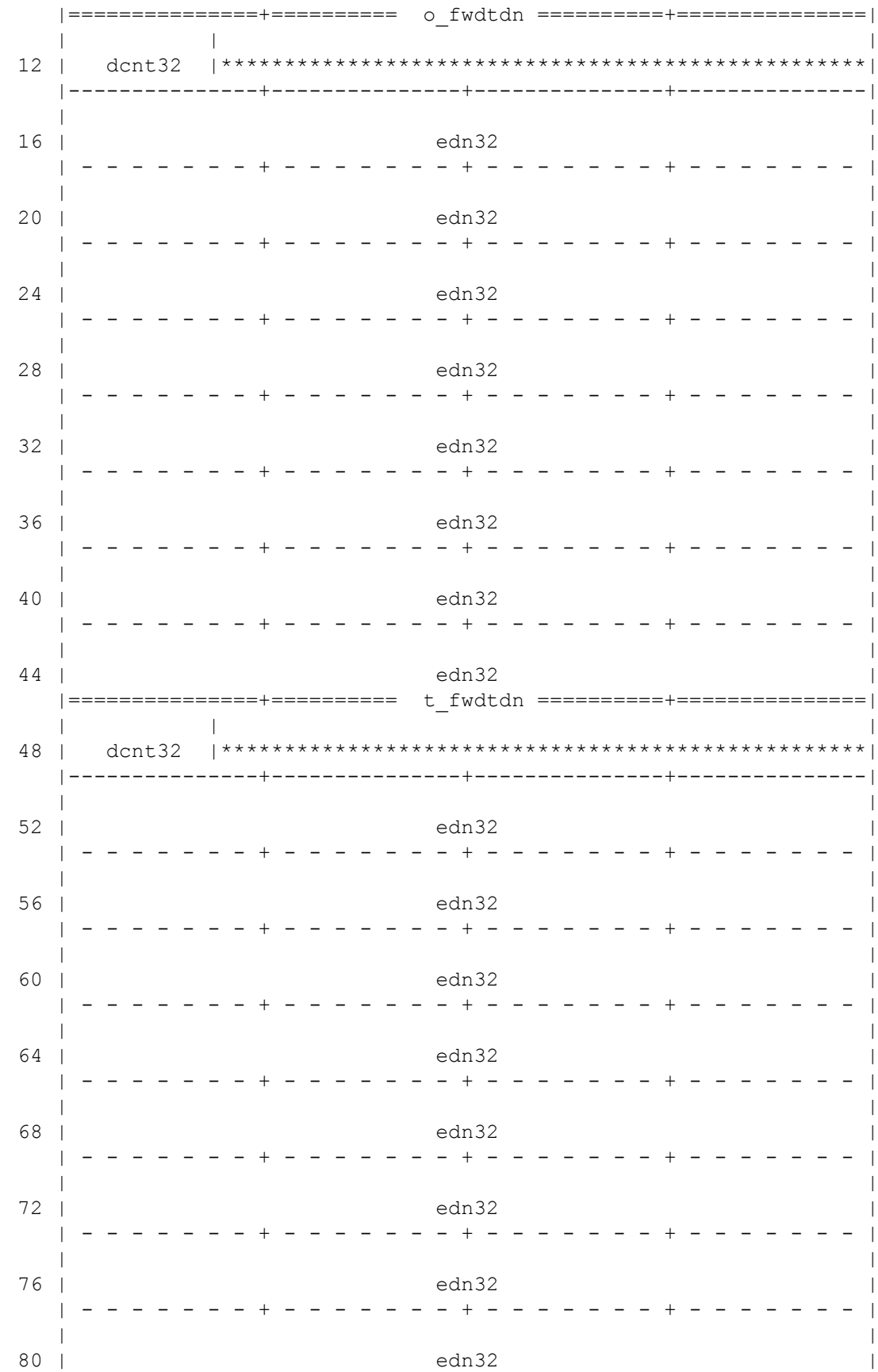


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```
    |===============+===============+===============+===============|
      ( 84 bytes )
     feat_id      DMMCC_FID    (ushort)  <--- key
     tg_id        DMUNS16      (ushort)
     o_an_ind     DMSYSID      (short)
     t_an_ind     DMSYSID      (short)
     actvn        DMMC_ACTYP   (enum: 3)
(a)  sr_orig      DMTG_SRTYP   (enum: 3)
(b)  moh_act      DMBOOL       (enum: 1)
(c)  ffcf1        DMBOOL       (enum: 1)
(d)  sr_odef      DMTG_SRTYP   (enum: 3)
(e)  o_errtrt     DMMC_ERTRT   (enum: 3)
(f)  dctvn        DMMC_DCTYP   (enum: 2)
(g)  sr_term      DMTG_SRTYP   (enum: 3)
(h)  sr_tdef      DMTG_SRTYP   (enum: 3)
(i)  cnigi        DMCNIGI      (enum: 2)
(j)  t_errtrt     DMMC_ERTRT   (enum: 3)
(k)  ffcf2        DMBOOL       (enum: 1)
(l)  ffcf3        DMBOOL       (enum: 1)
(m)  disp_rstrct  DMCUSTRST    (enum: 1)
     o_fwdtdn     DMCEDN32     (struct)  <--- compacted
         digcnt       DMDCNT32     (ushort: 6)
         edn32a       DMBCD8       (ulong)
         edn32b       DMBCD8       (ulong)
         edn32c       DMBCD8       (ulong)
         edn32d       DMBCD8       (ulong)
     t_fwdtdn     DMCEDN32     (struct)  <--- compacted
         digcnt       DMDCNT32     (ushort: 6)
         edn32a       DMBCD8       (ulong)
         edn32b       DMBCD8       (ulong)
         edn32c       DMBCD8       (ulong)
         edn32d       DMBCD8       (ulong)
          Compacted Tuple Layout   TG_CFDFL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            feat_id            |             tg_id             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            o_an_ind           |            t_an_ind           |
    |---------------+---------------+---------------+---------------|
    |     |     | | |     |     |   |   |     |     |   |     | | | |   |
  8 |actvn|  a  |b|c|  d  |  e  | f |  g  |  h  | i |  j  |k|l|m|***|
    |===============+==========  o_fwdtdn ==========+===============|
    |           |                                                   |
 12 |   digcnt  |***************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                           edn32a                              |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                           edn32b                              |
    |---------------+---------------+---------------+---------------|
```

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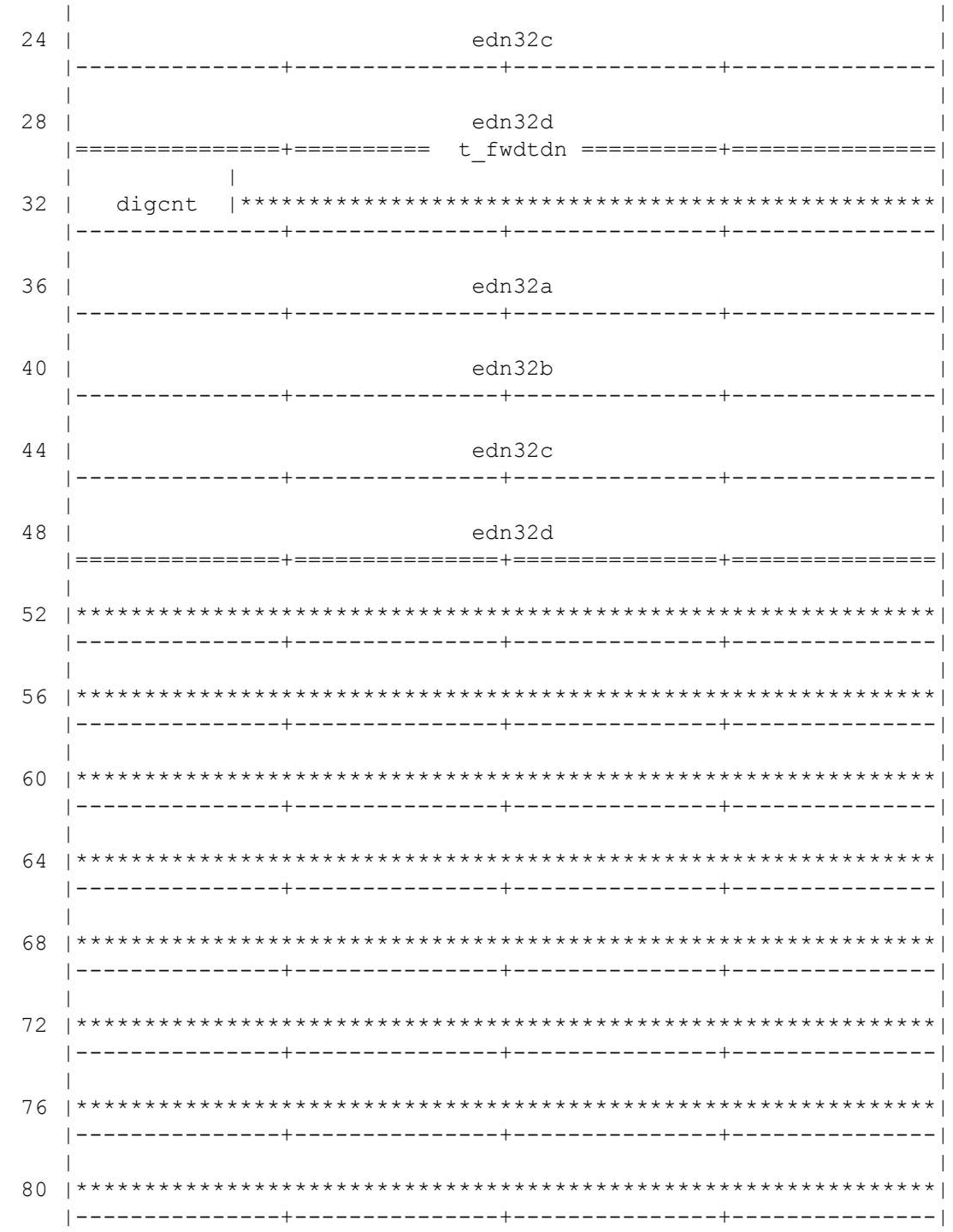


( 84 bytes )

| | | | |
|---|---|---|---|
| | feat_id | DMMCC_FID | (ushort) <--- key |
| | tg_id | DMUNS16 | (ushort) |
| | o_an_ind | DMSYSID | (short) |
| | t_an_ind | DMSYSID | (short) |
| | actvn | DMMC_ACTYP | (enum: 3) |
| (a) | sr_orig | DMTG_SRTYP | (enum: 3) |
| (b) | moh_act | DMBOOL | (enum: 1) |
| (c) | ffcf1 | DMBOOL | (enum: 1) |

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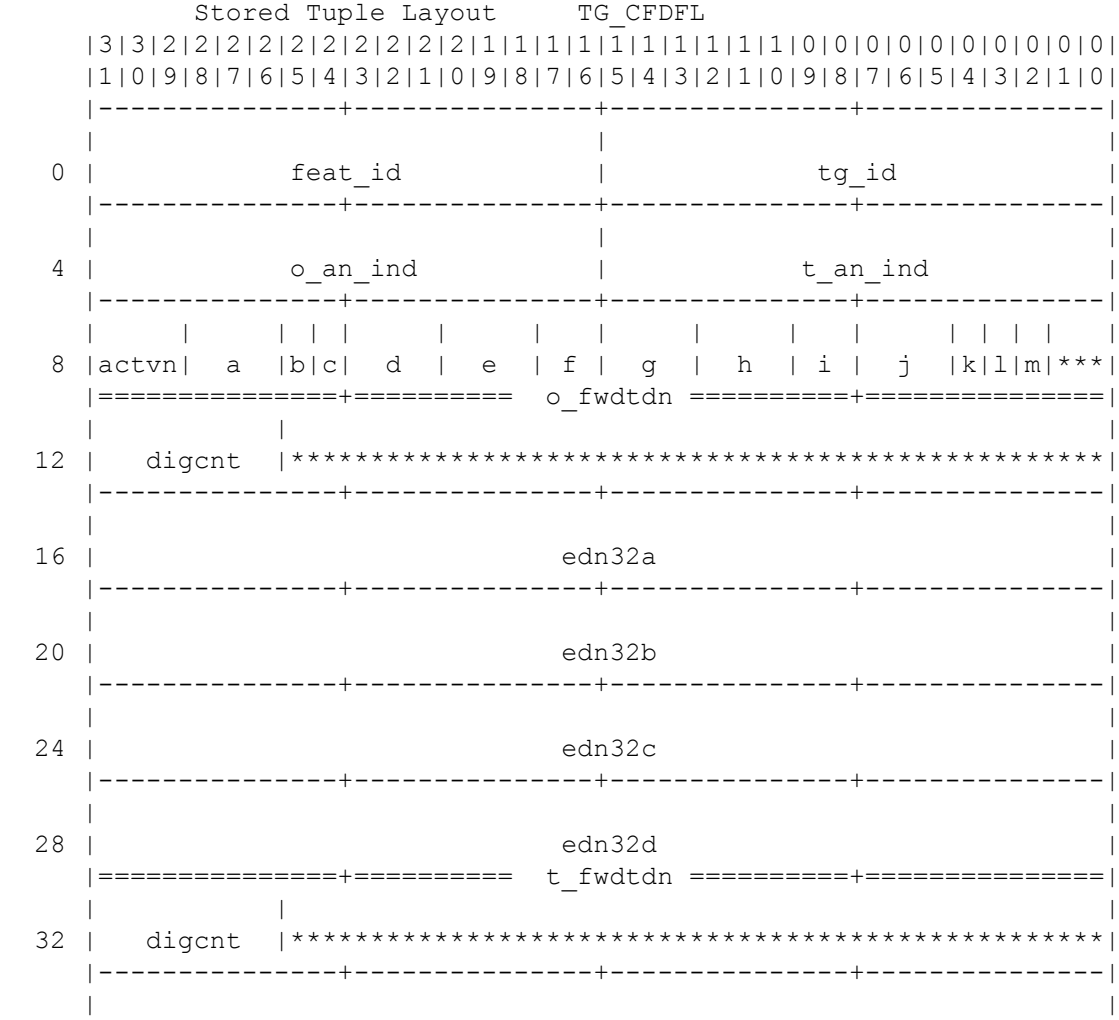
```
(d) sr_odef     DMTG_SRTYP   (enum: 3)
(e) o_errtrt    DMMC_ERTRT   (enum: 3)
(f) dctvn       DMMC_DCTYP   (enum: 2)
(g) sr_term     DMTG_SRTYP   (enum: 3)
(h) sr_tdef     DMTG_SRTYP   (enum: 3)
(i) cnigi       DMCNIGI      (enum: 2)
(j) t_errtrt    DMMC_ERTRT   (enum: 3)
(k) ffcf2       DMBOOL       (enum: 1)
(l) ffcf3       DMBOOL       (enum: 1)
(m) disp_rstrct  DMCUSTRST    (enum: 1)
    o_fwdtdn    DMCEDN32     (struct)  <--- compacted
        digcnt      DMDCNT32     (ushort: 6)
        edn32a      DMBCD8       (ulong)
        edn32b      DMBCD8       (ulong)
        edn32c      DMBCD8       (ulong)
        edn32d      DMBCD8       (ulong)
    t_fwdtdn    DMCEDN32     (struct)  <--- compacted
        digcnt      DMDCNT32     (ushort: 6)
        edn32a      DMBCD8       (ulong)
        edn32b      DMBCD8       (ulong)
        edn32c      DMBCD8       (ulong)
        edn32d      DMBCD8       (ulong)
```

Stored Tuple Layout TG_CFDFL

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```
 36 |                              edn32a                              |
    |---------------+---------------+---------------+---------------|
    |                                                                  |
 40 |                              edn32b                              |
    |---------------+---------------+---------------+---------------|
    |                                                                  |
 44 |                              edn32c                              |
    |---------------+---------------+---------------+---------------|
    |                                                                  |
 48 |                              edn32d                              |
    |===============+===============+===============+===============|
       ( 52 bytes )
```

## 4. Population Rules for RLtg_cfdfl

**Relation Description** Terminal group constructed feature and default parameters, used in the AM.

**Attribute: feat_id**

**Fullname:** feature ID

**Attribute Description** The MCC constructed feature ID. This attribute is the key to this relation and uniquely identifies the mcc constructed feature.

**Attribute: actvn**

**Fullname:** activation

**Attribute Description** Indicates method of activating MCC features. The two attributes (actions), activation and deactivation, together determine the customer options for the feature. The allowed options are as shown in the following layout:

| Combination Act/Deact | Activation | Deactivation |
|---|---|---|
| 1. Always active | ACTNONE | DCTNONE |
| 2. Customer selected | ACTCD | DCTCD activation/deactivation |
| 3. Customer selected | ACTCD | DCTAUTO activation/deactivation for one call only |

**Attribute: dctvn**

**Fullname:** deactivation

**Attribute Description** Indicates method of deactivating MCC features. The two attributes (actions), activation and deactivation, together determine the customer options for the feature. The allowed options are as shown in the previous table for attribute actvn.

**Attribute: sr_orig**

**Fullname:** originating station restriction

**Attribute Description** This attribute describes the station restriction for an originating terminal with station restriction active.
Dependencies: None

**Attribute: sr_odef**

**Fullname:** originating station restriction default

**Attribute Description** This attribute describes the station restriction for an originating terminal with

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station restriction deactivated.
Dependencies: None

**Attribute: o_errtrt**

**Fullname:** originating station error treatment

**Attribute Description** This attribute describes the error treatment for an originating terminal when a call is blocked due to station restriction.

**Attribute: sr_term**

**Fullname:** terminating station restriction

**Attribute Description** This attribute describes the station restriction for a terminating terminal with station restriction activate.
Dependencies: None

**Attribute: sr_tdef**

**Fullname:** terminating station restriction default

**Attribute Description** This attribute describes the station restriction for a terminating terminal with station restriction deactivated.
Dependencies: None

**Attribute: t_errtrt**

**Fullname:** terminating station error treatment

**Attribute Description** This attribute describes the error treatment for a terminating terminal when a call is blocked due to station restriction.

**Attribute: moh_act**

**Fullname:** Music On Hold Active

**Attribute Description** Is the Music On Hold Feature active for this TGSR feature? Range of values: DBYES or DBNO

```
Default: DBNO
moh_act = DBYES: Music On Hold is active
moh_act = DBNO: Music On Hold is not active.
```

**Attribute: ffcf1**

**Fullname:** future field feature

**Attribute Description** Booleans reserved for future field feature use.

**Attribute: ffcf2**

**Fullname:** future field feature

**Attribute Description** Booleans reserved for future field feature use.

**Attribute: ffcf3**

**Fullname:** future field feature

**Attribute Description** Booleans reserved for future field feature use.

**Attribute: tg_id**

**Fullname:** terminal group ID

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**Attribute Description** This attribute identifies the MCC terminal group to which this line belongs.

**Attribute: disp_rstrct**

**Fullname:** Customer Defined Displayed Restriction

**Attribute Description** disp_rstrct contains a value that indicates, to a called ISAT attendant, a customer defined restriction for the calling party. This value is used only for display to an ISAT attendant and is not enforced by switch software. A value of DBTOLL_RST means, to the ISAT attendant, the caller is restricted from making toll calls. A value of DBNULL_RST means, to the ISAT attendant, the caller has no customer defined restrictions.

**Attribute: o_fwdtdn**

**Fullname:** originating forward-to dn

**Attribute Description** This attribute specifies the forward-to DN when a call is blocked because of an originating station restriction.

**Attribute: o_fwdtdn.dcnt32**

**Fullname:** digit count

**Attribute Description** Specifies the number of digits in the DN default 0 for null DN.

**Attribute: o_fwdtdn.edn32**

**Fullname:** DN digit string

**Attribute Description** An array of up to 32 extended digits range of values: 0 thru 9, *, #.

**Attribute: t_fwdtdn**

**Fullname:** terminating forward-to dn

**Attribute Description** This attribute specifies the forward-to DN when a call is blocked because of a terminating station restriction.

**Attribute: t_fwdtdn.dcnt32**

**Fullname:** digit count

**Attribute Description** Specifies the number of digits in the DN default 0 for a null DN.

**Attribute: t_fwdtdn.edn32**

**Fullname:** DN digit string

**Attribute Description** DN digit string: an array of up to 32 extended digits.
Range of values: 0 thru 9, *, #.

**Attribute: o_an_ind**

**Fullname:** originating error announcement route index

**Attribute Description** Specifies an announcement index to be used if a call is blocked due to an originating station restriction and originating error treatment of ER_ANNC.

**Attribute: t_an_ind**

**Fullname:** terminating error announcement route index

**Attribute Description** Specifies an announcement index to be used if a call is blocked due to a terminating station restriction and terminating error treatment of ER_ANNC.

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**Attribute: cnigi**

**Fullname:** Calling number identification service delivery option. Intra-Group Only.

**Attribute Description** The cnigi field indicates whether members of the terminal group have restrictions on delivery of calling party number and forwarding number information, as provided by the CNIS, CPN/BND, RN Delivery, CgPS Delivery and ICLID features. Based on the cnigi field, these may be restricted to intra-group calls only. CNIGI is NOT a separate assignable feature. The CNIGI field may be overridden on a per line or per trunk basis, by setting the CNIGI field to a value other than NULL.

The possible settings of Intra-group CNIS option are:
`FCNULLCNIGI- Default. Consult the Glcnigi Office Parameter.`

FCNRSTCNIGI- No Restrictions apply to Display/deliver CPN or RN information on all calls.

FCIGOCNIGI - Display/deliver CPN or RN information only on intra-group calls.

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# TG_LTMER

## 1. Description

Terminal group error treatment data for a logical termination index.

Defines the forward-to DN and the routing index data if terminal group station restriction error treatment is to be applied.

The tree figure 1 diagram depicts the stored structure of virtual relation TG_LTMER.

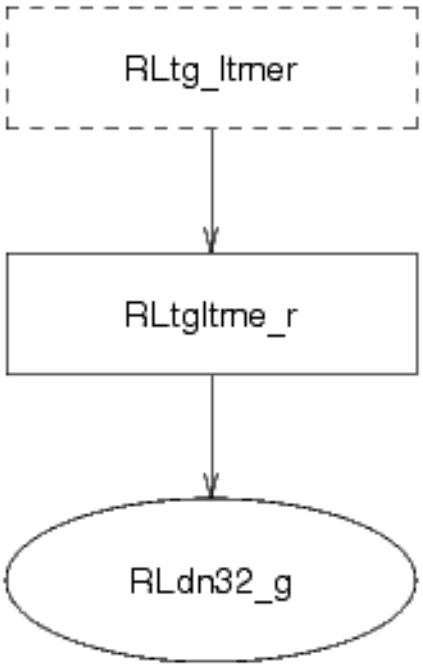


**Figure 1 Stored Structure of Virtual Relation TG_LTMER**

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 0 |
| access type | DBACC_OPV |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
TG_LTMER    relid = 914   DBSTATIC   DBACC_OPV   DBNOTODD  LPFG    RCMAP
     o_an_ind    DMSYSID      (short)
     t_an_ind    DMSYSID      (short)
     ltm_idx     DMLTM_IDX    (ulong: 16)  <--- key
 (a) ffcf2       DMBOOL       (enum: 1)
 (b) ffcf3       DMBOOL       (enum: 1)
     lead_module  DMMODULE     (ushort: 8)  <--- key
 (c) ltm_type    DMLTM_TYPE   (enum: 1)  <--- key
 (d) ffcf1       DMBOOL       (enum: 1)
     o_fwdtdn    DMEDN32      (struct)  <--- compacted
```

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```
        dcnt32      DMDCNT32     (ushort: 6)
        edn32       DMEDIGSTR    (array [ 32 ] of char )
    t_fwdtdn    DMEDN32      (struct)  <--- compacted
        dcnt32      DMDCNT32     (ushort: 6)
        edn32       DMEDIGSTR    (array [ 32 ] of char )
           User Tuple Layout      TG_LTMER
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            o_an_ind           |            t_an_ind           |
   |---------------+---------------+---------------+---------------|
   |                               | | |               |       | | |
 4 |            ltm_idx            |a|b|  lead_module  |*******|c|d|
   |===============+==========  o_fwdtdn ==========+===============|
   |           |                                                   |
 8 |   dcnt32  |***************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
12 |                            edn32                              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
16 |                            edn32                              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
20 |                            edn32                              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
24 |                            edn32                              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
28 |                            edn32                              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
32 |                            edn32                              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
36 |                            edn32                              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
40 |                            edn32                              |
   |===============+==========  t_fwdtdn ==========+===============|
   |           |                                                   |
44 |   dcnt32  |***************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
48 |                            edn32                              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
52 |                            edn32                              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
56 |                            edn32                              |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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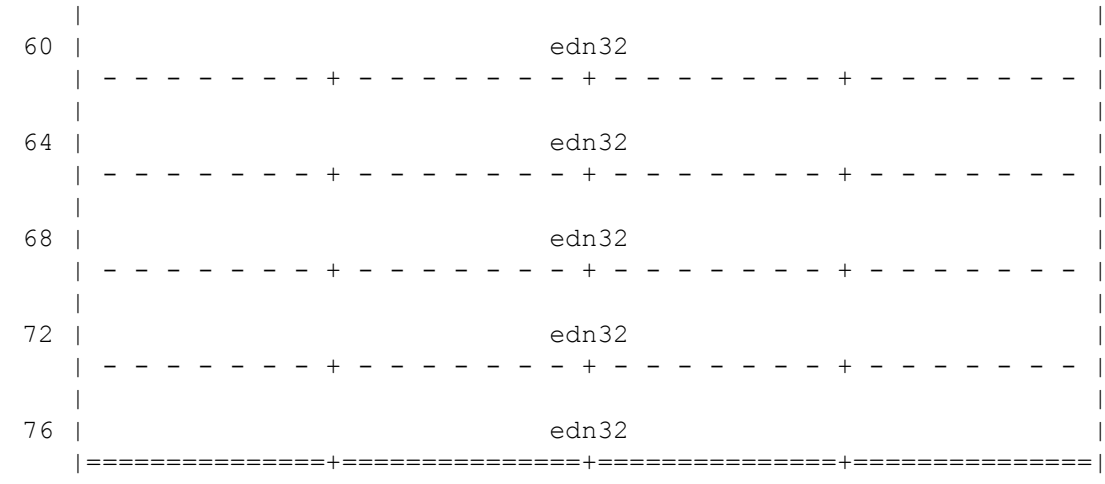
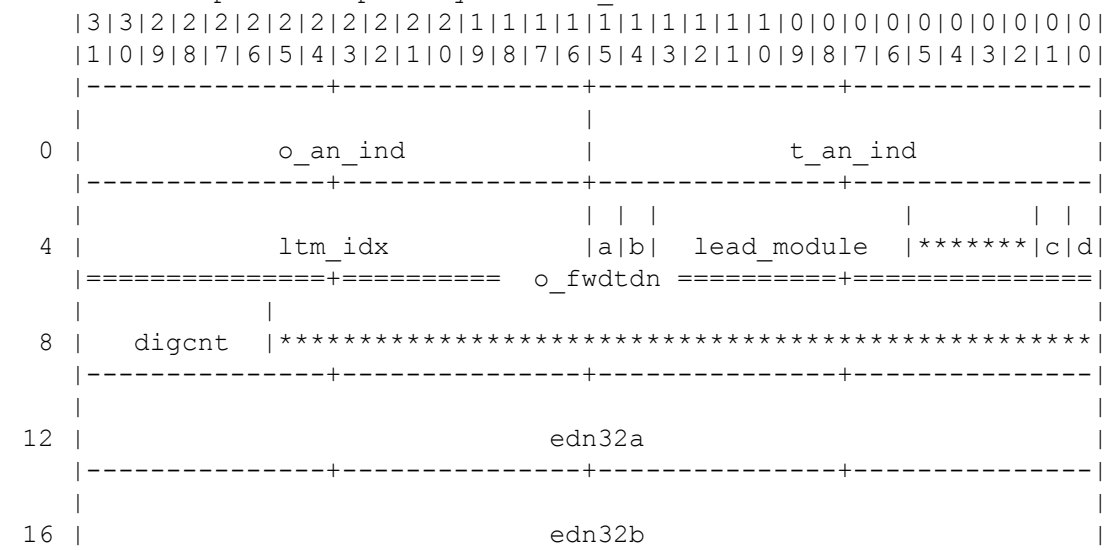



```
      ( 80 bytes )
    o_an_ind    DMSYSID      (short)
    t_an_ind    DMSYSID      (short)
    ltm_idx     DMLTM_IDX    (ulong: 16)  <--- key
(a) ffcf2       DMBOOL       (enum: 1)
(b) ffcf3       DMBOOL       (enum: 1)
    lead_module  DMMODULE     (ushort: 8)  <--- key
(c) ltm_type    DMLTM_TYPE   (enum: 1)  <--- key
(d) ffcf1       DMBOOL       (enum: 1)
    o_fwdtdn    DMCEDN32     (struct)  <--- compacted
        digcnt      DMDCNT32     (ushort: 6)
        edn32a      DMBCD8       (ulong)
        edn32b      DMBCD8       (ulong)
        edn32c      DMBCD8       (ulong)
        edn32d      DMBCD8       (ulong)
    t_fwdtdn    DMCEDN32     (struct)  <--- compacted
        digcnt      DMDCNT32     (ushort: 6)
        edn32a      DMBCD8       (ulong)
        edn32b      DMBCD8       (ulong)
        edn32c      DMBCD8       (ulong)
        edn32d      DMBCD8       (ulong)
```

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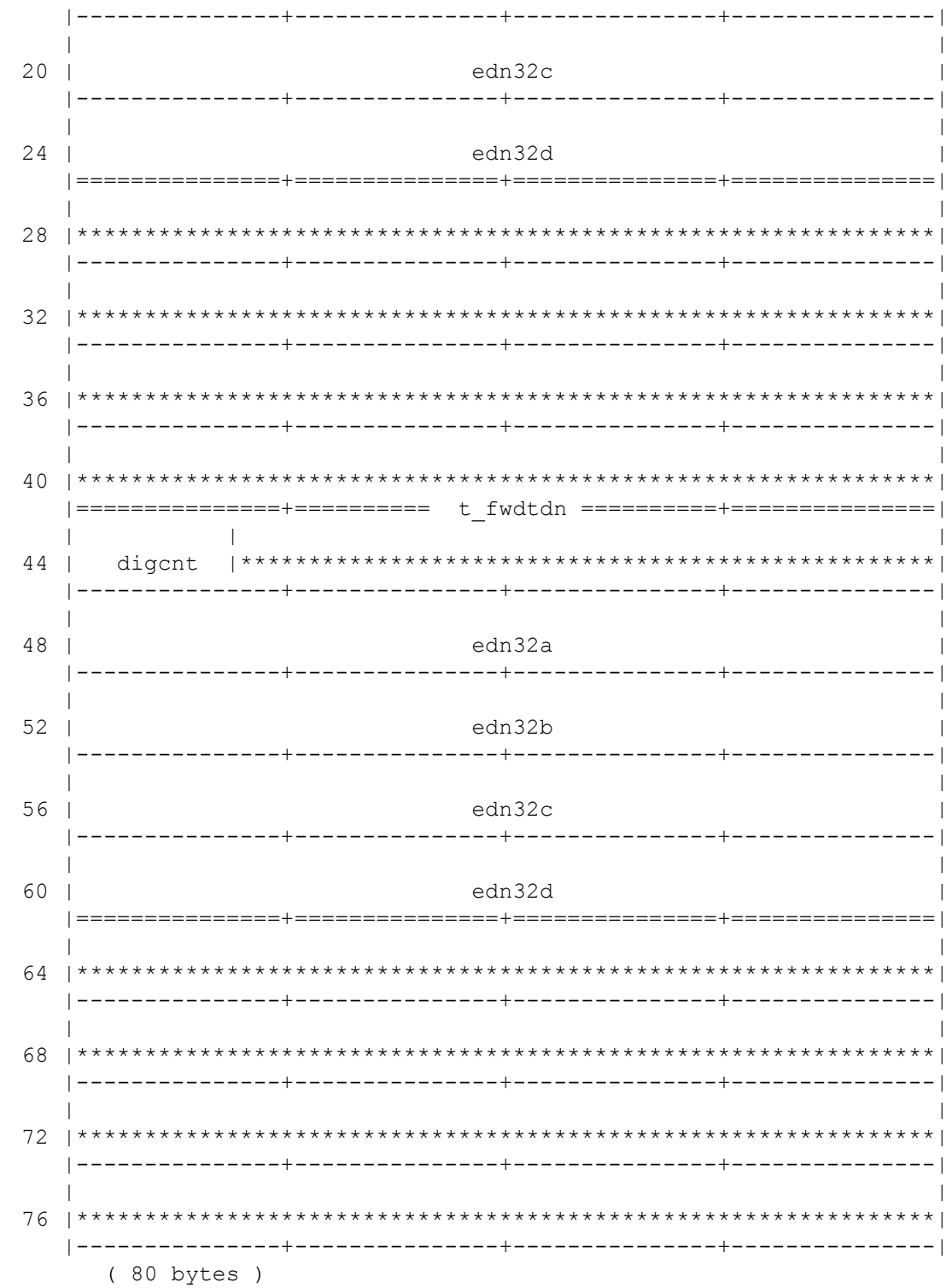


( 80 bytes )

```
    o_an_ind     DMSYSID      (short)
    t_an_ind     DMSYSID      (short)
    ltm_idx      DMLTM_IDX    (ulong: 16)  <--- key
(a) ffcf2        DMBOOL       (enum: 1)
(b) ffcf3        DMBOOL       (enum: 1)
    lead_module  DMMODULE      (ushort: 8)  <--- key
```

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```
(c) ltm_type    DMLTM_TYPE   (enum: 1)  <--- key
(d) ffcf1       DMBOOL       (enum: 1)
    o_fwdtdn    DMCEDN32     (struct)  <--- compacted
        digcnt      DMDCNT32     (ushort: 6)
        edn32a      DMBCD8       (ulong)
        edn32b      DMBCD8       (ulong)
        edn32c      DMBCD8       (ulong)
        edn32d      DMBCD8       (ulong)
    t_fwdtdn    DMCEDN32     (struct)  <--- compacted
        digcnt      DMDCNT32     (ushort: 6)
        edn32a      DMBCD8       (ulong)
        edn32b      DMBCD8       (ulong)
        edn32c      DMBCD8       (ulong)
        edn32d      DMBCD8       (ulong)
          Stored Tuple Layout     TG_LTMER
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            o_an_ind           |            t_an_ind           |
   |---------------+---------------+---------------+---------------|
   |                               | | |               |       | | |
 4 |            ltm_idx            |a|b|  lead_module  |*******|c|d|
   |===============+==========  o_fwdtdn ==========+===============|
   |           |                                                   |
 8 |   digcnt  |***************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
12 |                            edn32a                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
16 |                            edn32b                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |                            edn32c                             |
   |---------------+---------------+---------------+---------------|
   |                                                               |
24 |                            edn32d                             |
   |===============+===============+===============+===============|
   |                                                               |
28 |***************************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
32 |***************************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
36 |***************************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
40 |***************************************************************|
   |===============+==========  t_fwdtdn ==========+===============|
   |           |                                                   |
44 |   digcnt  |***************************************************|
   |---------------+---------------+---------------+---------------|
```

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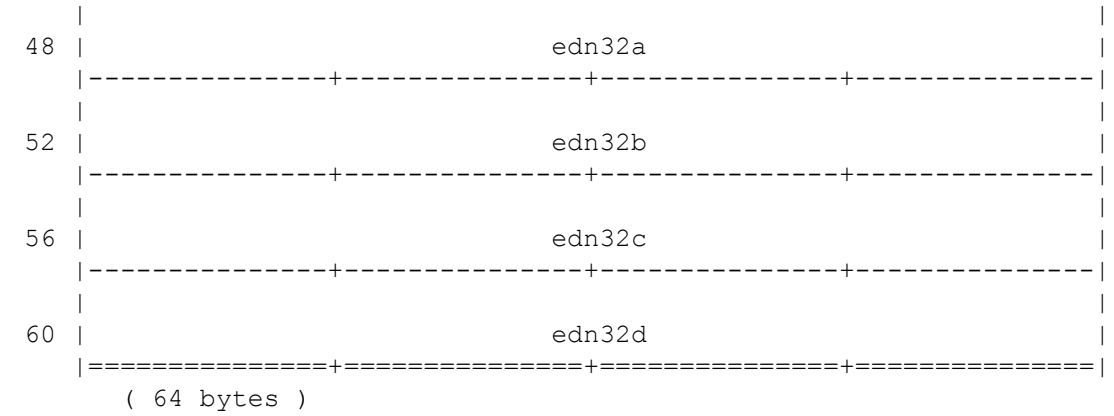


## 4. Population Rules for RLtg_ltmer

**Relation Description** Defines the forward-to DN and the routing index data if terminal group station restriction error treatment is to be applied.
The following is a list of valid service classes for LTports assigned this feature:

| LINES | TRUNKS |
|---|---|
| FC_ATTENDANT | FC_AUX_TRNK |
| FC_INDVDL | FC_PDID |
| FC_PBX | FC_PF |
| FC_SATSTLN | FC_PFLASH |
| FC_HOTMOTL | FC_PFITT |
| PBXHOTMOT | FC_LTOLL_CONN |
| FC_4WIRE_INDV | FC_PFCPE |
| FC_ISDN | FC_PRI_INTOLL |
| FC_ISATND | FC_TTOLL_CONN |
| FC_MODEM | FCEDSL |
| | FCEDSLHM |

**Attribute: lead_module**

**Fullname:** Lead module
**Attribute Description** When lead_module is zero and ltm_type = LTM_ISDN then a BFG tuple exists. Otherwise lead_module range is 1-192, and the tuple is not BFG.

**Attribute: ltm_type**

**Fullname:** Logical Termination Index type
**Attribute Description** LTM_ISDN includes ISDN and shared analog lines. LTM_OTHER includes trunks and unshared analog lines.

**Attribute: ltm_idx**

**Fullname:** Logical Termination Index
**Attribute Description** The existence of an index implies the value 1 or greater, therefore, ltm_idx must be greater than 0 in this relation. If this is a BFG tuple (lead_module = zero and ltm_type = LTM_ISDN) then the range of attribute ltm_idx must start with 256.

**Attribute: ffcf1**

**Fullname:** Future field feature

**Attribute Description** The attributes ffcf1 thru ffcf3 are booleans reserved for future field feature use.

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**Attribute: ffcf2**

**Fullname:** Future field feature

**Attribute Description** The attributes ffcf1 thru ffcf3 are booleans reserved for future field feature use.

**Attribute: ffcf3**

**Fullname:** Future field feature

**Attribute Description** The attributes ffcf1 thru ffcf3 are booleans reserved for future field feature use.

**Attribute: o_fwdtdn**

**Fullname:** Originating Forward-to DN
**Attribute Description** This attribute specifies the forward-to DN when a call is blocked because of an originating station restriction and originating error treatment is ER_RERTE. This attribute is a structure consisting of 2 sub-attributes, dcnt32 and edn32.

**Attribute: o_fwdtdn.dcnt32**

**Fullname:** Digit count
**Attribute Description** Specifies the number of digits in the DN. The default value (0) indicates a null DN.

**Attribute: o_fwdtdn.edn32**

**Fullname:** DN Digit String
**Attribute Description** An array of up to 32 extended digits.

**Attribute: t_fwdtdn**

**Fullname:** Terminating Forward-to DN
**Attribute Description** This attribute specifies the forward-to DN when a call is blocked because of a terminating station restriction and terminating error treatment is ER_RERTE. This attribute is a structure consisting of 2 sub-attributes, dcnt32 and edn32.

**Attribute: t_fwdtdn.dcnt32**

**Fullname:** Digit count
**Attribute Description** Specifies the number of digits in the DN.

**Attribute: t_fwdtdn.edn32**

**Fullname:** DN digit string
**Attribute Description** An array of up to 32 extended digits.

**Attribute: o_an_ind**

**Fullname:** Originating Error Announcement Index
**Attribute Description** Specifies an announcement index to be used if a call is blocked due to an originating station restriction and originating error treatment of ER_ANNC.

**Attribute: t_an_ind**

**Fullname:** Terminating Error Announcement Index
**Attribute Description** Specifies an announcement index to be used if a call is blocked due to a terminating station restriction and terminating error treatment of ER_ANNC.

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# TG2M_G

## 1. Description

Trunk group member maps. This is a child storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8000 |
| expected | 200 |
| access type | DBACC_GK |
| distribution | FP |
| relation type | DBSTORAGE |
| memory type | DBPRAM |
| foldtype | DBGC31 |
| ks key store | DBNO |
| gkidxrel GK-index relation | rlTG2M_I |

## 3. Field Layout

```
TG2M_G      relid = 2120  DBSTORAGE  DBACC_GK    DBPRAM    FP      NULL
     gkTG2M_G    DMGK14       (ulong: 14)  <--- key, not stored
     tgmap_1     DMHEX32      (ulong)
     tgmap_2     DMHEX32      (ulong)
     tgmap_3     DMHEX32      (ulong)
     tgmap_4     DMHEX32      (ulong)
     tgmap_5     DMHEX32      (ulong)
     tgmap_6     DMHEX32      (ulong)
     tgmap_7     DMHEX32      (ulong)
     tgmap_8     DMHEX32      (ulong)
     tgmap_9     DMHEX32      (ulong)
     tgmap_10    DMHEX32      (ulong)
     tgmap_11    DMHEX32      (ulong)
     tgmap_12    DMHEX32      (ulong)
     tgmap_13    DMHEX32      (ulong)
     tgmap_14    DMHEX32      (ulong)
         User and Compacted Tuple Layout     TG2M_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkTG2M_G             |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  4 |                            tgmap_1                              |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  8 |                            tgmap_2                              |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 12 |                            tgmap_3                              |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 16 |                            tgmap_4                              |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
```

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```
 20 |                            tgmap_5                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 24 |                            tgmap_6                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 28 |                            tgmap_7                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 32 |                            tgmap_8                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 36 |                            tgmap_9                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 40 |                            tgmap_10                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 44 |                            tgmap_11                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 48 |                            tgmap_12                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 52 |                            tgmap_13                           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 56 |                            tgmap_14                           |
    |---------------+---------------+---------------+---------------|
      ( 60 bytes )
     tgmap_1     DMHEX32      (ulong)
     tgmap_2     DMHEX32      (ulong)
     tgmap_3     DMHEX32      (ulong)
     tgmap_4     DMHEX32      (ulong)
     tgmap_5     DMHEX32      (ulong)
     tgmap_6     DMHEX32      (ulong)
     tgmap_7     DMHEX32      (ulong)
     tgmap_8     DMHEX32      (ulong)
     tgmap_9     DMHEX32      (ulong)
     tgmap_10    DMHEX32      (ulong)
     tgmap_11    DMHEX32      (ulong)
     tgmap_12    DMHEX32      (ulong)
     tgmap_13    DMHEX32      (ulong)
     tgmap_14    DMHEX32      (ulong)
           Stored Tuple Layout   TG2M_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                          GK LINK FIELD                        |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            tgmap_1                            |
    |---------------+---------------+---------------+---------------|
```

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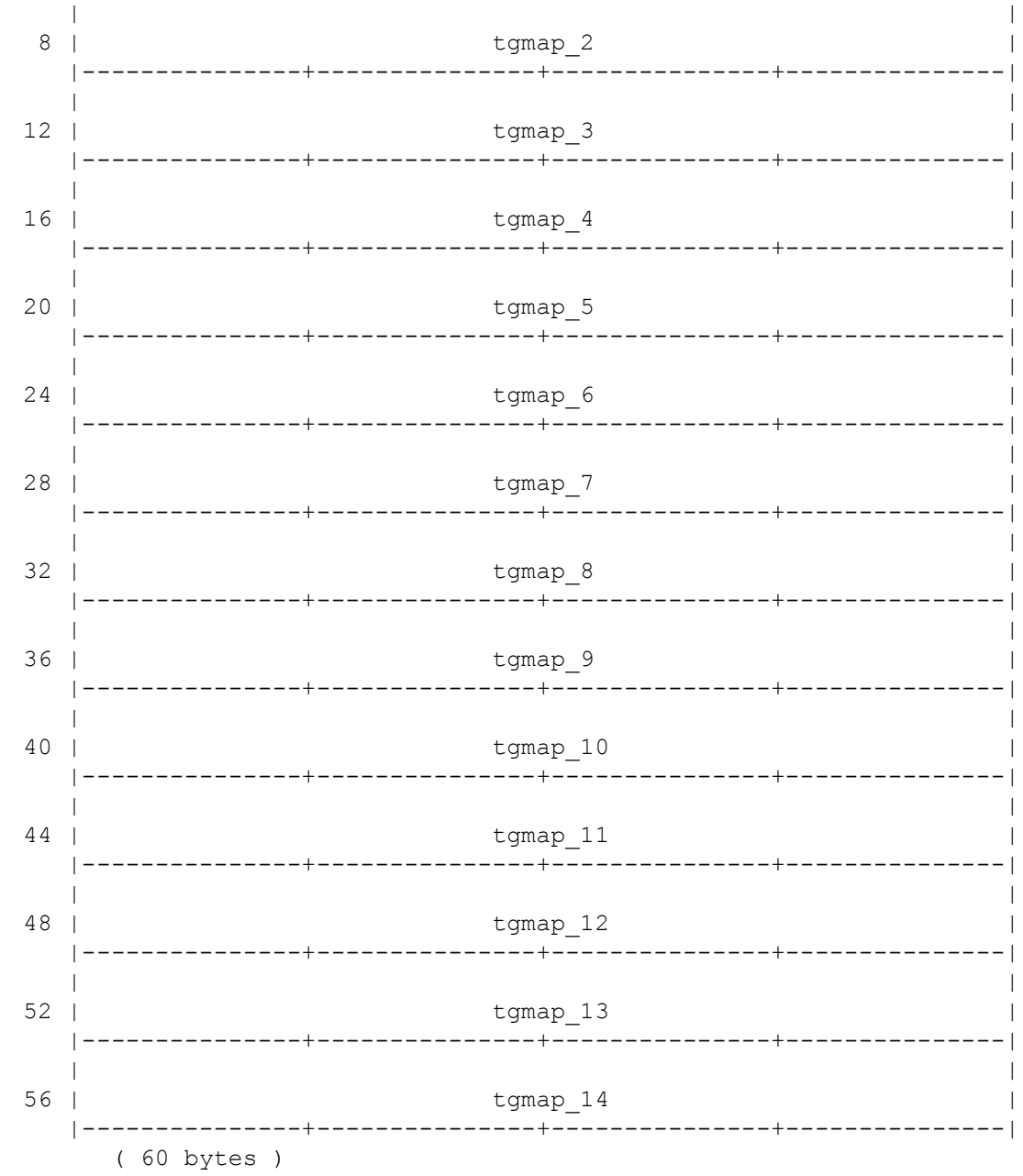


## 4. Population Rules for RLtg2m_g

There are no population rules for this relation.

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# TG2M_R

## 1. Description

Root relation for TG2MBR.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum | 8191 |
| expected | 500 |
| access type | DBACC_CIND |
| distribution | FP |
| memory type | DBPRAM |
| relation type | DBSTORAGE |
| ks key store | DBYES |

## 3. Field Layout

```
TG2M_R      relid = 2122  DBSTORAGE  DBACC_CIND  DBPRAM    FP      NULL
     tg2mptr1    DMGK14       (ulong: 14)
     tg2mptr2    DMGK14       (ulong: 14)
     tg2mptr3    DMGK14       (ulong: 14)
     tg2mptr4    DMGK14       (ulong: 14)
     tgnum       DMGRUPNM     (ushort: 13)    <--- key
     servclass   DMSERVCLASS  (enum)
     tgmap0      DMHEX32      (ulong)
     tgmap1      DMHEX32      (ulong)
     tgmap2      DMHEX32      (ulong)
     tgmap3      DMHEX32      (ulong)
     tgmap4      DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout TG2M_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
  0 |           tg2mptr1            |           tg2mptr2            |*******|
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
  4 |           tg2mptr3            |           tg2mptr4            |*******|
    |---------------+---------------+---------------+---------------|
    |                           |     |               |               |
  8 |           tgnum           |*****|   servclass   |***************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                             tgmap0                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                             tgmap1                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                             tgmap2                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 24 |                             tgmap3                            |
    |---------------+---------------+---------------+---------------|
```

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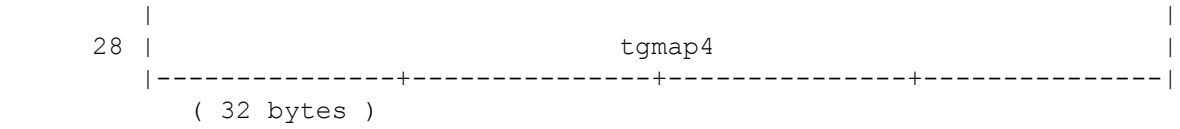


## 4. Population Rules for RLtg2m_r

There are no population rules for this relation.

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# TG2MBR

## 1. Description

Maps trunk group members equipped on an SM.

The tree diagram 1 depicts the stored structure of virtual relation TG2MBR.

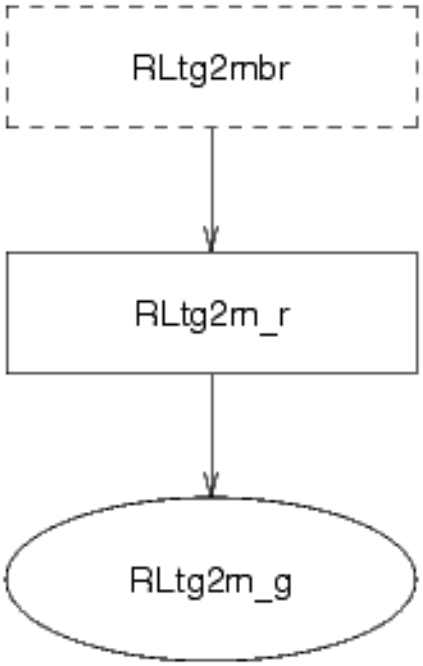


**Figure 1 Stored Structure of Virtual Relation TG2MBRa**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FP |
| relation type | DBSTATIC |
| permutation type | un_perm |
| trigger function | TMtg2mbr |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
TG2MBR      relid = 2123  DBSTATIC   DBACC_OPV   DBNOTODD  FP      NULL
     tgnum       DMGRUPNM     (ushort: 13)    <--- key
     servclass   DMSERVCLASS  (enum)
     tgmap0      DMHEX32      (ulong)
     tgmap1      DMHEX32      (ulong)
     tgmap2      DMHEX32      (ulong)
     tgmap3      DMHEX32      (ulong)
     tgmap4      DMHEX32      (ulong)
     tgmap5      DMHEX32      (ulong)
     tgmap6      DMHEX32      (ulong)
```

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```
tgmap7      DMHEX32      (ulong)
tgmap8      DMHEX32      (ulong)
tgmap9      DMHEX32      (ulong)
tgmap10     DMHEX32      (ulong)
tgmap11     DMHEX32      (ulong)
tgmap12     DMHEX32      (ulong)
tgmap13     DMHEX32      (ulong)
tgmap14     DMHEX32      (ulong)
tgmap15     DMHEX32      (ulong)
tgmap16     DMHEX32      (ulong)
tgmap17     DMHEX32      (ulong)
tgmap18     DMHEX32      (ulong)
tgmap19     DMHEX32      (ulong)
tgmap20     DMHEX32      (ulong)
tgmap21     DMHEX32      (ulong)
tgmap22     DMHEX32      (ulong)
tgmap23     DMHEX32      (ulong)
tgmap24     DMHEX32      (ulong)
tgmap25     DMHEX32      (ulong)
tgmap26     DMHEX32      (ulong)
tgmap27     DMHEX32      (ulong)
tgmap28     DMHEX32      (ulong)
tgmap29     DMHEX32      (ulong)
tgmap30     DMHEX32      (ulong)
tgmap31     DMHEX32      (ulong)
tgmap32     DMHEX32      (ulong)
tgmap33     DMHEX32      (ulong)
tgmap34     DMHEX32      (ulong)
tgmap35     DMHEX32      (ulong)
tgmap36     DMHEX32      (ulong)
tgmap37     DMHEX32      (ulong)
tgmap38     DMHEX32      (ulong)
tgmap39     DMHEX32      (ulong)
tgmap40     DMHEX32      (ulong)
tgmap41     DMHEX32      (ulong)
tgmap42     DMHEX32      (ulong)
tgmap43     DMHEX32      (ulong)
tgmap44     DMHEX32      (ulong)
tgmap45     DMHEX32      (ulong)
tgmap46     DMHEX32      (ulong)
tgmap47     DMHEX32      (ulong)
tgmap48     DMHEX32      (ulong)
tgmap49     DMHEX32      (ulong)
tgmap50     DMHEX32      (ulong)
tgmap51     DMHEX32      (ulong)
tgmap52     DMHEX32      (ulong)
tgmap53     DMHEX32      (ulong)
tgmap54     DMHEX32      (ulong)
tgmap55     DMHEX32      (ulong)
tgmap56     DMHEX32      (ulong)
tgmap57     DMHEX32      (ulong)
tgmap58     DMHEX32      (ulong)
tgmap59     DMHEX32      (ulong)
tgmap60     DMHEX32      (ulong)
```

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```
          User, Compacted and Stored Tuple Layout TG2MBR
     |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
     |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
     |---------------+---------------+---------------+---------------|
     |                           |     |               |               |
   0 |          tgnum            |*****|   servclass   |***************|
     |---------------+---------------+---------------+---------------|
     |                                                               |
   4 |                              tgmap0                           |
     |---------------+---------------+---------------+---------------|
     |                                                               |
   8 |                              tgmap1                           |
     |---------------+---------------+---------------+---------------|
                                     .
                                     .
                                     .
     |---------------+---------------+---------------+---------------|
     |                                                               |
 240 |                             tgmap59                           |
     |---------------+---------------+---------------+---------------|
     |                                                               |
 244 |                             tgmap60                           |
     |---------------+---------------+---------------+---------------|
        ( 248 bytes )
domain alTG2MBR   struct  (3 sub-attributes)
          tgnum       .7.fake      (ushort: 13)
          servclass   .0fake       (enum)
          tgmap       .8.fake      (array [ 61 ] of unsigned long )

          Structure Layout      alTG2MBR
     |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
     |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
     |---------------+---------------+---------------+---------------|
     |                           |     |               |               |
   0 |          tgnum            |*****|    servclas   |***************|
     |---------------+---------------+---------------+---------------|
     |                                                               |
   4 |                              tgmap                            |
     | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
     |                                                               |
   8 |                              tgmap                            |
     | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
                                     .
                                     .
                                     .
     | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
     |                                                               |
 240 |                              tgmap                            |
     | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
     |                                                               |
 244 |                              tgmap                            |
     |---------------+---------------+---------------+---------------|
        ( 248 bytes )
```

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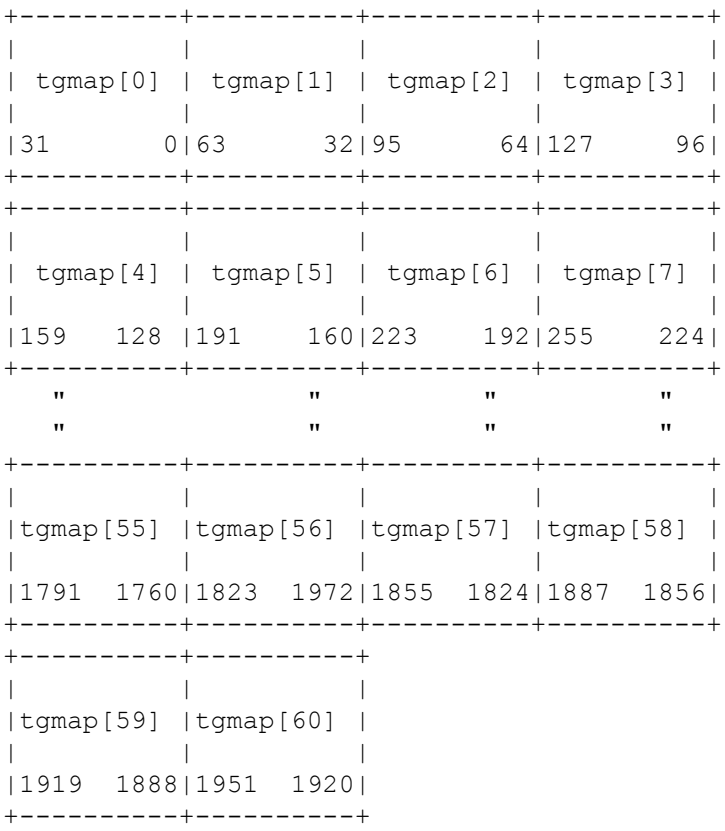
## 4. Population Rules for RLtg2mbr

**Relation Description** Trunk Group to 5E DCS member
MappingThis relation contains a bit map of all members of a 5E DCS trunk group present on a particular SM.

The following diagram illustrates the layout of the trunk members as they are represented in the bit map. TG member 0 will be in the low order bit of tgmap[0] and TG member 1951 will be the highest member number stored in tgmap[60].

A value of 0 means that the TG has no members on this SM, a value of 1 means that it does.




**Attribute: tgnum**

**Fullname:** Trunk Group Number

**Attribute Description** Primary key to the relation.

**Attribute: servclass**

**Fullname:** Class of Service.

**Attribute Description** Trunk class of service.

**Attribute: tgmap[*]**

**Fullname:** Bit map for trunk group members 1 -1951

**Attribute Description** Each tuple can contain up to 61 maps ( tgmap0 - tgmap60 ). If bit is on, the 5E DCS trunk group contains a member whose number corresponds to the position in the bitmap. The 0 bit in tgmap[0] is not used.

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# TG2SM

## 1. Description

Maps trunk groups to SMs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8191 |
| expected tuples in relation | 175 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application type | PSA |
| relation type | DBSTATIC |
| ks key store | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
TG2SM       relid = 1838  DBSTATIC   DBACC_CIND  DBPRAM    LP      PSA
     tgnum       DMGRUPNM     (ushort: 13)    <--- key, not stored
     smmap0      DMHEX32      (ulong)
     smmap1      DMHEX32      (ulong)
     smmap2      DMHEX32      (ulong)
     smmap3      DMHEX32      (ulong)
     smmap4      DMHEX32      (ulong)
     smmap5      DMHEX32      (ulong)
         User and Compacted Tuple Layout  TG2SM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |           tgnum               |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                               smmap0                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                               smmap1                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                               smmap2                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                               smmap3                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                               smmap4                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 24 |                               smmap5                          |
    |---------------+---------------+---------------+---------------|
      ( 28 bytes )
     smmap0      DMHEX32      (ulong)
     smmap1      DMHEX32      (ulong)
```

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```
     smmap2      DMHEX32      (ulong)
     smmap3      DMHEX32      (ulong)
     smmap4      DMHEX32      (ulong)
     smmap5      DMHEX32      (ulong)
           Stored Tuple Layout    TG2SM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                               smmap0                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                               smmap1                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                               smmap2                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                               smmap3                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                               smmap4                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                               smmap5                          |
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
domain alTG2SM    struct  (2 sub-attributes)
         tgnum       .1.fake      (ushort: 13)
         smmap       .2.fake      (array [ 6 ] of unsigned long )

         Structure Layout   alTG2SM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           |                                   |
  0 |           tgnum           |***********************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                               smmap                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                               smmap                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                               smmap                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                               smmap                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                               smmap                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
```

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```
 24 |                              smmap                                |
    |---------------+---------------+---------------+---------------|
       ( 28 bytes )
```

## 4. Population Rules for RLtg2sm

**Relation Description** Trunk Group to SM Mapping
This relation contains a bit map of all SMs that contain members of a trunk group. It is used for AML processing.

**Attribute: tgnum**

**Fullname:** Trunk Group Number

**Attribute Description** Primary key to the relation.

**Attribute: smmap0**

**Fullname:** Bit map for block of 32 SMs.

**Attribute Description** If bit is on, the SM contains members of the trunk group. If the last member of the trunk group on an SM is deleted, the bit representing that SM must be turned off.

**Attribute: smmap1**

**Fullname:** Bit map for block of 32 SMs.

**Attribute Description** If bit is on, the SM contains members of the trunk group. If the last member of the trunk group on an SM is deleted, the bit representing that SM must be turned off.

**Attribute: smmap2**

**Fullname:** Bit map for block of 32 SMs.

**Attribute Description** If bit is on, the SM contains members of the trunk group. If the last member of the trunk group on an SM is deleted, the bit representing that SM must be turned off.

**Attribute: smmap3**

**Fullname:** Bit map for block of 32 SMs.

**Attribute Description** If bit is on, the SM contains members of the trunk group. If the last member of the trunk group on an SM is deleted, the bit representing that SM must be turned off.

**Attribute: smmap4**

**Fullname:** Bit map for block of 32 SMs.

**Attribute Description** If bit is on, the SM contains members of the trunk group. If the last member of the trunk group on an SM is deleted, the bit representing that SM must be turned off.

**Attribute: smmap5**

**Fullname:** Bit map for block of 32 SMs.

**Attribute Description** If bit is on, the SM contains members of the trunk group. If the last member of the trunk group on an SM is deleted, the bit representing that SM must be turned off.

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# TGAT_G

## 1. Description

This is the child storage relation to the RLrctgrprk virtual relation. This relation stores large trunk group recent change attributes.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected tuples | 100 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LP |
| application | CCS |
| relation type | DBSTORAGE |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel reverse index | rlTGAT_I |

## 3. Field Layout

```
TGAT_G      relid = 1718  DBSTORAGE  DBACC_GK    DBPRAM    LP      CCS


    gkTGAT_G    DMGK14       (ulong: 14)       <--- key, not stored
    npsn        DMSHORT      (short)
    ct_trig     DMUNS8       (ushort: 8)
    lrn_das     DMDA_TREE    (ushort: 7)
(a) dal_egress  DMBOOL       (enum: 1)
(b) mint_sig    DMMSIGTYPE   (enum: 3)
(c) featgrp     DMFEATGRP    (enum: 2)
(d) fgdcicsz    DMSZFGD      (enum: 2)
(e) queue_inh   DMBOOL       (enum: 1)
(f) net_indicator  DMNIND       (enum: 2)
(g) ctxid       DMCTXID      (enum: 2)
(h) spc_pbx     DMBOOL       (enum: 1)
(i) dal_access  DMBOOL       (enum: 1)
(j) passani     DMBOOL       (enum: 1)
(k) ldpsp1      DMBOOL       (enum: 1)
(l) ldpsp2      DMBOOL       (enum: 1)
(m) ldpsp3      DMBOOL       (enum: 1)
(n) dnis_user   DMBOOL       (enum: 1)
(o) rel_link_init  DMBOOL       (enum: 1)
    vcdata      DMVC_DATA    (struct)
        orignpa     DMNPA        (array [ 3 ] of char )
        offcode     DMOFFCODE    (array [ 24 ] of char )
(p)     offcnt      DMUNS3       (ushort: 3)
    netgrp      DMFACNAME    (array [ 8 ] of char )
    carrid      DMCIC4       (array [ 4 ] of char )
        User and Compacted Tuple Layout     TGAT_G
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 0 |*********************************|          gkTGAT_G             |
```

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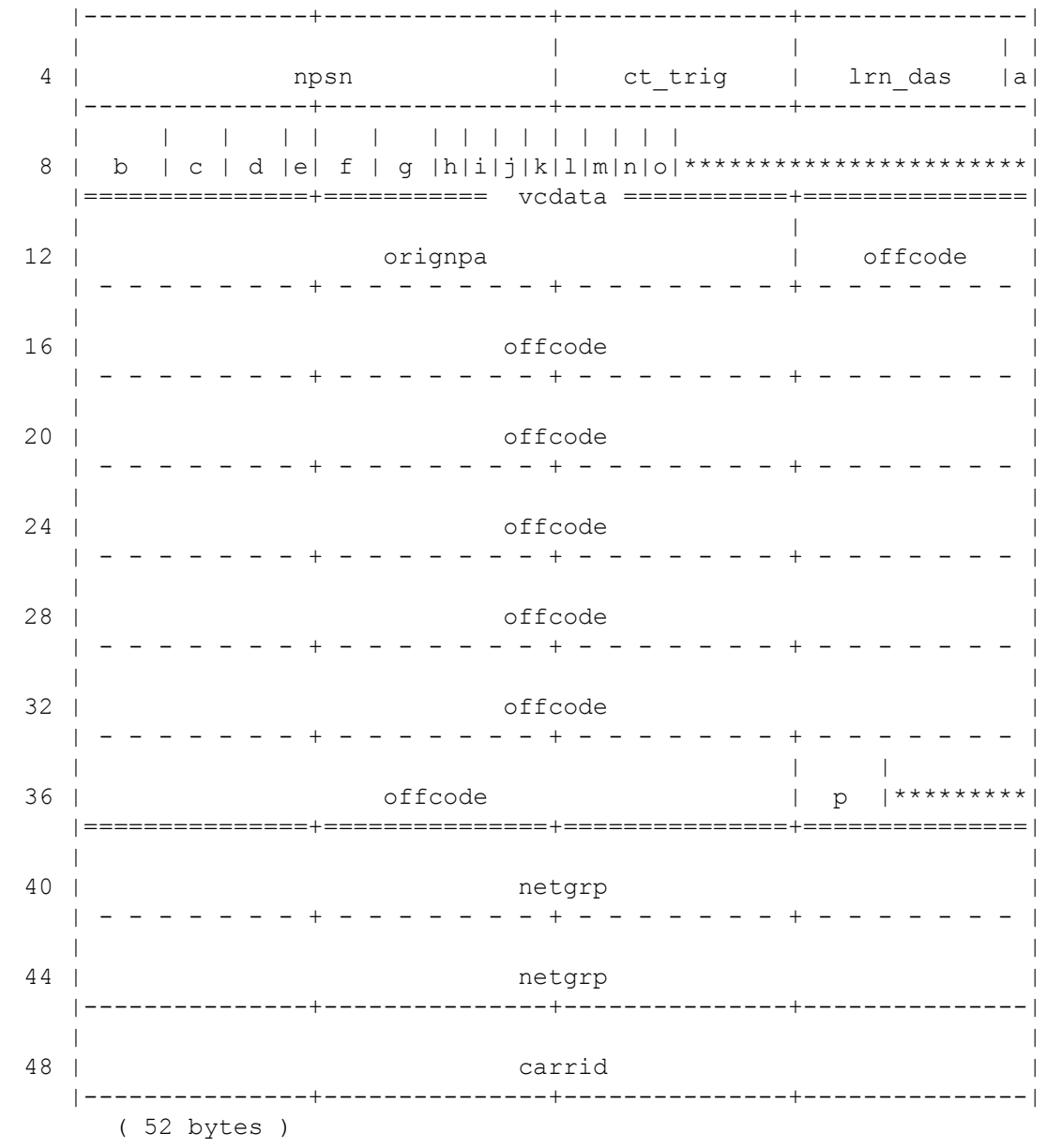


( 52 bytes )

```
    npsn          DMSHORT       (short)
    ct_trig       DMUNS8        (ushort: 8)
    lrn_das       DMDA_TREE     (ushort: 7)
(a) dal_egress    DMBOOL        (enum: 1)
(b) mint_sig      DMMSIGTYPE    (enum: 3)
(c) featgrp       DMFEATGRP     (enum: 2)
(d) fgdcicsz      DMSZFGD       (enum: 2)
(e) queue_inh     DMBOOL        (enum: 1)
(f) net_indicator  DMNIND          (enum: 2)
(g) ctxid         DMCTXID       (enum: 2)
(h) spc_pbx       DMBOOL        (enum: 1)
(i) dal_access    DMBOOL        (enum: 1)
(j) passani       DMBOOL        (enum: 1)
(k) ldpsp1        DMBOOL        (enum: 1)
```

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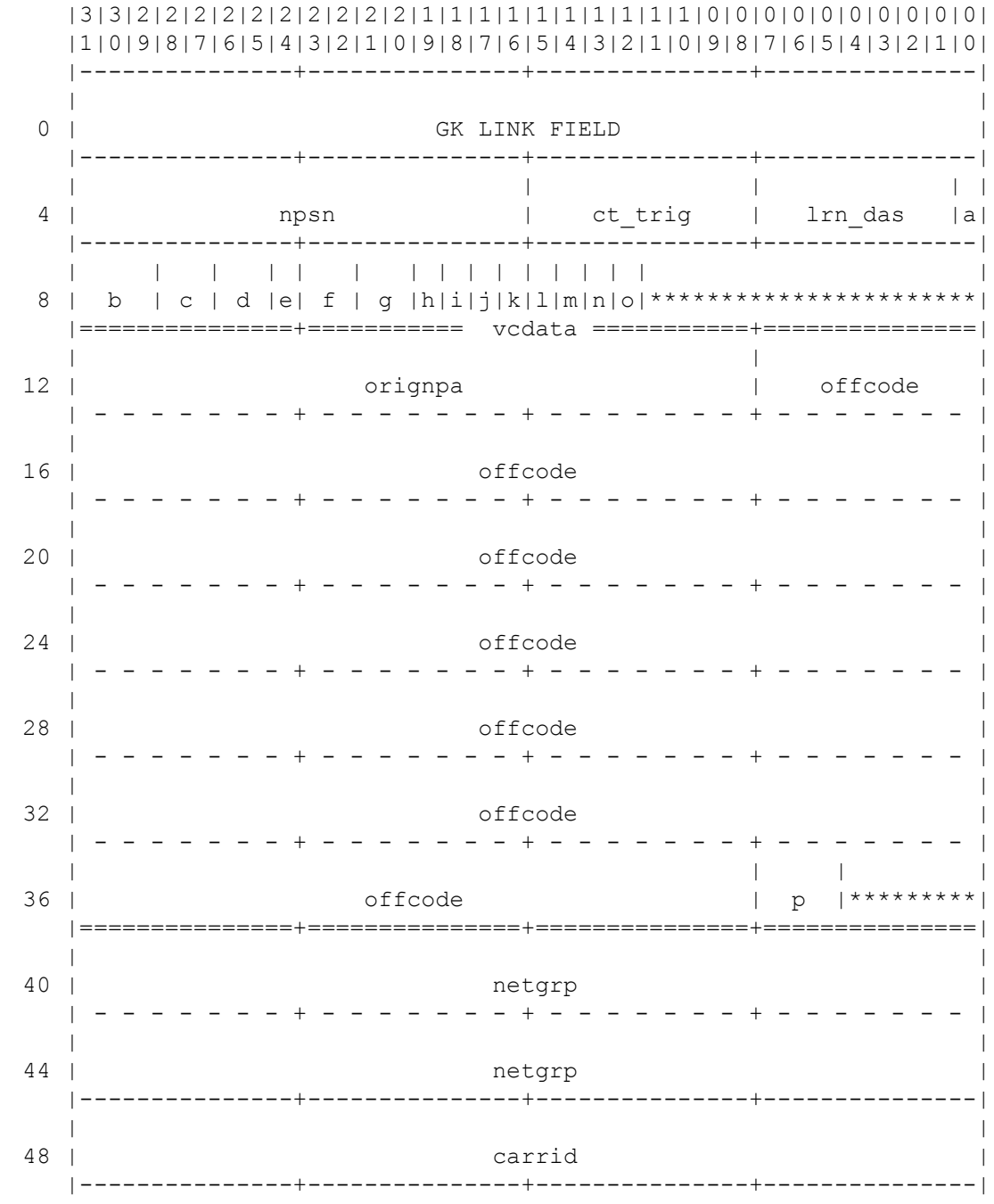
```
(l) ldpsp2      DMBOOL       (enum: 1)
(m) ldpsp3      DMBOOL       (enum: 1)
(n) dnis_user   DMBOOL       (enum: 1)
(o) rel_link_init  DMBOOL       (enum: 1)
    vcdata      DMVC_DATA    (struct)
        orignpa     DMNPA        (array [ 3 ] of char )
        offcode     DMOFFCODE    (array [ 24 ] of char )
(p)     offcnt      DMUNS3       (ushort: 3)
    netgrp      DMFACNAME    (array [ 8 ] of char )
    carrid      DMCIC4       (array [ 4 ] of char )
```

Stored Tuple Layout TGAT_G




( 52 bytes )

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## 4. Population rules for RLtgat_g

**Relation Description**

There are no population rules for this relation.

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# TGCH_G

## 1. Description

This is the storage relation for CLCI code Trunk information (string).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000 |
| expected tuples | 100 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LP |
| application | CCS |
| relation type | DBSTORAGE |
| head page size | 2048 |
| data page size | 512 |
| page level | 2 |
| index length | 0 |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel reverse index | rlTGCH_I |

## 3. Field Layout

```
TGCH_G      relid = 1720  DBSTORAGE  DBACC_GK    DBPRAM    LP      CCS
     gkTGCH_G    DMGK14       (ulong: 14)    <--- key, not stored
     tg_char     DMTEXT15     (array [ 15 ] of char )
         User and Compacted Tuple Layout     TGCH_G
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkTGCH_G             |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  4 |                            tg_char                              |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                 |
  8 |                            tg_char                              |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                 |
 12 |                            tg_char                              |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                   |             |
 16 |                    tg_char                        |*************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
     tg_char     DMTEXT15     (array [ 15 ] of char )
           Stored Tuple Layout   TGCH_G
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  0 |                         GK LINK FIELD                           |
    |---------------+---------------+---------------+---------------|
```

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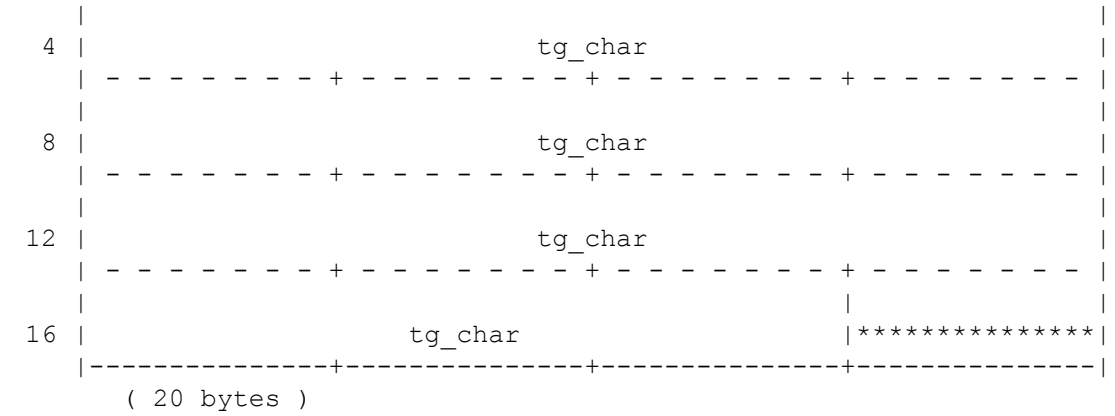


## 4. Population Rules for RLtgch_g

There are no population rules for this relation.

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# TGCNTMSK

## 1. Description

Trunk Group Control mask. This mask is used to mask out the DNs that should not be verified by the Remote Busy Verify Trunk group. This mask is used by the Remote Busy Verification feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8191 |
| expected tuples in relation | 10 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application type | RCMAP |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
TGCNTMSK    relid = 1760  DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     hgid         DMHGID       (ulong: 22)    <--- key
     tgn          DMGRUPNM     (ushort: 13)    <--- key
     dnmsk1       DMDNSTAT     (uchar)
     dnmsk2       DMDNSTAT     (uchar)
     dnmsk3       DMDNSTAT     (uchar)
     dnmsk4       DMDNSTAT     (uchar)
     dnmsk5       DMDNSTAT     (uchar)
     dnmsk6       DMDNSTAT     (uchar)
     dnmsk7       DMDNSTAT     (uchar)
     dnmsk8       DMDNSTAT     (uchar)
     dnmsk9       DMDNSTAT     (uchar)
     dnmsk10      DMDNSTAT     (uchar)
     dnmsk11      DMDNSTAT     (uchar)
     dnmsk12      DMDNSTAT     (uchar)
     dnmsk13      DMDNSTAT     (uchar)
         User, Compacted and Stored Tuple Layout   TGCNTMSK
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                     hgid                      |*******************|
    |---------------+---------------+---------------+---------------|
    |                           |     |               |               |
  4 |            tgn            |*****|     dnmsk1    |     dnmsk2    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  8 |     dnmsk3    |     dnmsk4    |     dnmsk5    |     dnmsk6    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 12 |     dnmsk7    |     dnmsk8    |     dnmsk9    |    dnmsk10    |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 16 |    dnmsk11    |    dnmsk12    |    dnmsk13    |***************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

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```
domain alTGCNTMSK struct  (3 sub-attributes)
         hgid        .2.fake      (ulong: 22)
         tgn         .3.fake      (ushort: 13)
         dnmask      .4.fake      (array [ 13 ] of unsigned char )

         Structure Layout      alTGCNTMSK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                    hgid                       |***************|
    |---------------+---------------+---------------+---------------|
    |                           |     |                             |
  4 |           tgn             |*****|             dnmask          |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
  8 |                               dnmask                          |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 12 |                               dnmask                          |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                       |       |
 16 |                      dnmask                           |*******|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population Rules for RLtgcntmsk

**Relation Description** Trunk Group Control Mask
There will be one tuple in this relation for each 100s group that needs to be controlled by a Remote Busy Verify Trunk group. The mask is used to mask out DNs that should not be controlled by the designated group. This verification is for the ISAT Remote Busy Verification feature.

**Attribute: hgid**

**Fullname:** Hundreds Group Identifier

**Attribute Description** Contains the noc, thousand weighted digit, and hundred weighted digit.

The hundred group identifier (hgid) has three sub-fields:

```
noc     Normalized Office Code
        Range: 1 - AVNOCMAX()
        Default: none
```

d4 Thousand weighted digit Range: 0 - 9 Default: none

d3 Hundred weighted digit Range: 0 - 9 Default: none
NOTE: The following example explains how the 'hgid' value is derived.

For the DN# 220-4321:

Read RLnoccode to convert nxx to noc;

For RLnoccode.nxx equal to 220 (Office Code) RLnoccode.noc equals 118 (Normalized Office Code)

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118 = noc  4 = digit4 (d4)  3 = digit3 (d3)  2 = digit2 (d2)  1 = digit1 (d1)

The 'noc', 'd4', and 'd3' will be used to determine the 'hgid' value.

noc = 118(0x76)  shift 2 left  = 0x7600

d4 = 4 (0x04)  shift 1 left  = 0x0040

d3 = 3 (0x03)  = 0x0003

hgid = 0x7600 + 0x0040 + 0x0003

= 0x7643

**Attribute: tgn**

**Fullname:** Trunk Group Number

**Attribute Description** Contains the group number of the incoming ISAT Busy Verify Trunk Group.

**Attribute: dnmsk[*]**

**Fullname:** Mask of DNs

**Attribute Description** Mask of 100 bits which is used to determine which DNs can be controlled by a Busy Verify Trunk group.

```
dnmsk1     first byte (8 bits) of 100s group mask
           each bit that equals '0' denotes DN not
           associated with attendant MLHG, and
           each bit that equals '1' denotes DN is
           associated with a Busy Verify Trunk group.
           Hundred digit number 1st byte
                 07 06 05 04 03 02 01 00

                 _________________________
                 |  |  |  |  |  |  |  |  |
                 -------------------------
     dnmsk2     Hundred digit number 2nd byte
                 15 14 13 12 11 10 09 08

                 _________________________
                 |  |  |  |  |  |  |  |  |
                 -------------------------
     dnmsk3     Hundred digit number 3rd byte
                 23 22 21 20 19 18 17 16

                 _________________________
                 |  |  |  |  |  |  |  |  |
                 -------------------------
     dnmsk4     Hundred digit number 4th byte
                 31 30 29 28 27 26 25 24

                 _________________________
                 |  |  |  |  |  |  |  |  |
                 -------------------------
     dnmsk5     Hundred digit number 5th byte
                 39 38 37 36 35 34 33 32

                 _________________________
                 |  |  |  |  |  |  |  |  |
                 -------------------------
     dnmsk6     Hundred digit number 6th byte
```

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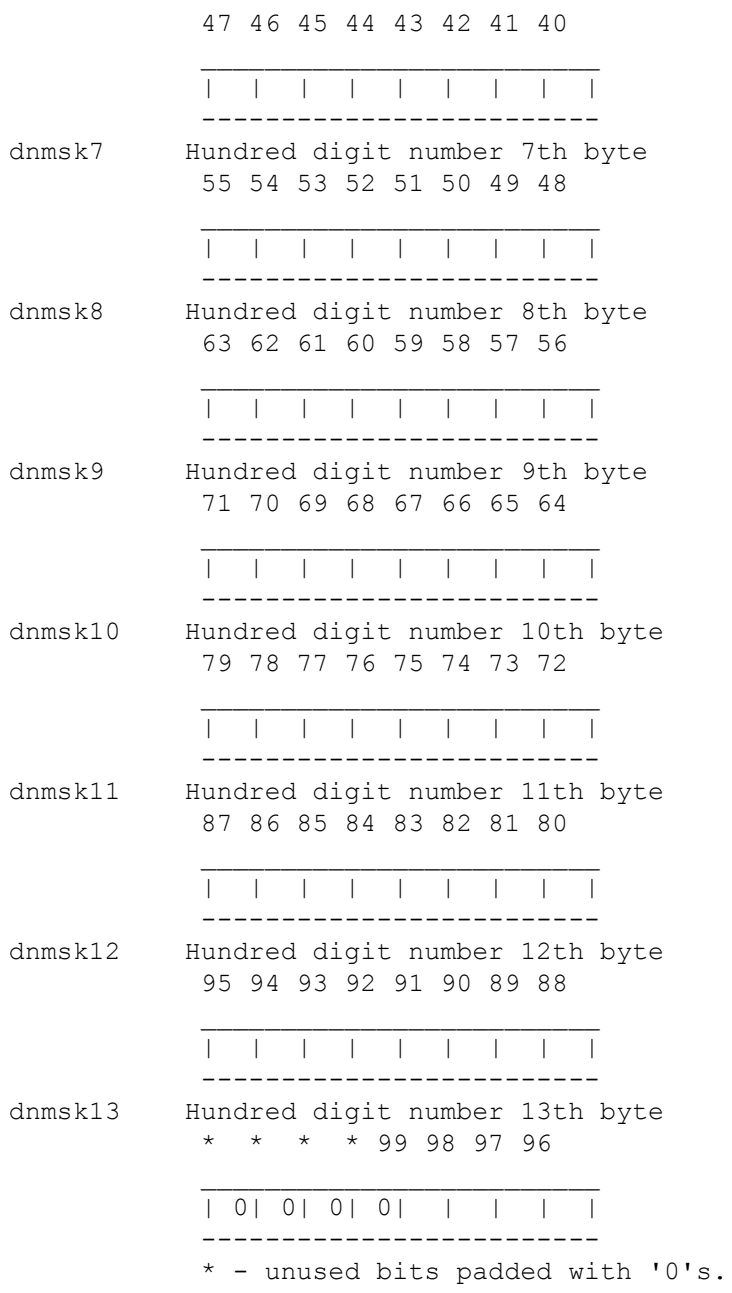


Each bit with '0' indicates that the DN is NOT a member of the set of DNs that this given Busy Verify Trunk group (based on this group's number) can control.

Each bit with '1' indicates that the DN is a member of the set of DNs that this given Busy Verify Trunk group (based on this group's number) can control.

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# TGLTM

## 1. Description

Terminal group data for a logical termination index.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 153 |
| density | 11 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
TGLTM       relid = 1724  DBSTATIC   DBACC_CIND  DBPRAM    LPFG    RCMAP
     lead_module  DMMODULE     (ushort: 8)  <--- key, not stored
 (a) ltm_type     DMLTM_TYPE   (enum: 1)  <--- key, not stored
     ltm_idx      DMLTM_IDX    (ulong: 16)  <--- key, not stored
 (b) cnigi        DMCNIGI      (enum: 2)
 (c) moh_act      DMBOOL       (enum: 1)
 (d) disp_rstrct  DMCUSTRST    (enum: 1)
 (e) ffcf1        DMBOOL       (enum: 1)
 (f) ffcf2        DMBOOL       (enum: 1)
 (g) ffcf3        DMBOOL       (enum: 1)
        User and Compacted Tuple Layout  TGLTM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               | |                                 |             |
  0 |  lead_module  |a|            ltm_idx              |*************|
    |---------------+---------------+---------------+---------------|
    |   | | | | | |                                                 |
  4 | b |c|d|e|f|g|*************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
 (a) cnigi        DMCNIGI      (enum: 2)
 (b) moh_act      DMBOOL       (enum: 1)
 (c) disp_rstrct  DMCUSTRST    (enum: 1)
 (d) ffcf1        DMBOOL       (enum: 1)
 (e) ffcf2        DMBOOL       (enum: 1)
 (f) ffcf3        DMBOOL       (enum: 1)
           Stored Tuple Layout    TGLTM
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |   | | | | | |                                               |
  0 | a |b|c|d|e|f|***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

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## 4. Population Rules for RLtgltm

**Relation Description** Terminal group station restriction line/trunk parameter relation.

TGSR feature line parameters on this logical termination index which are in addition to line parameters found in RLtg_ltmer and RLdn_feats (that is, dn_feats.tgid).

**Attribute: lead_module**

**Fullname:** Lead SM for ltm_idx

**Attribute Description** Lead Module For Termination Index.

**Attribute: ltm_type**

**Fullname:** Logical Termination Type

**Attribute Description** Logical Termination Type associated with line that has TGSR feature assigned.

**Attribute: ltm_idx**

**Fullname:** Logical Termination Index

**Attribute Description** Logical Termination Index with TGSR feature assigned.

**Attribute: moh_act**

**Fullname:** Music On Hold Active

**Attribute Description** Is Music On Hold active for this logical termination index?

**Attribute: ffcf1**

**Fullname:** Future Field Feature Bit 1

**Attribute Description** Future Field Feature Usage.

**Attribute: disp_rstrct**

**Fullname:** Customer Defined DISPlayed ReSTRiCTion

**Attribute Description** disp_rstrct contains a value that indicates, to a called ISAT attendant, a customer defined restriction for the calling party. This value is used only for display to an ISAT attendant and is not enforced by switch software. A value of DBTOLL_RST means, to the ISAT attendant, the caller is restricted from making toll calls. A value of DBNULL_RST means, to the ISAT attendant, the caller has no customer defined restrictions.

**Attribute: cnigi**

**Fullname:** Calling number identification service delivery option. Intra-Group Only.

**Attribute Description** The cnigi field indicates whether members of the terminal group have restrictions on delivery of calling party number and forwarding number information, as provided by the CNIS, CPN/BND, RN Delivery, CgPS Delivery and ICLID features. Based on the cnigi field, these may be restricted to intra-group calls only. CNIGI is NOT a separate assignable feature. This per-line cnigi field, if not set to FCNULLCNIGI overwrites per-terminal-group and per-office flags.

on a per line or per trunk basis, by setting the CNIGI field to a value other than NULL.

The possible settings of Intra-group CNIS option are:

```
FCNULLCNIGI- Default. Consult  RLrt_tg.cnigi, or if that tuple
             does not exist, consult the Glcnigi Office Parameter.
```

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```
FCNRSTCNIGI- No Restrictions apply to Display/deliver CPN
             or RN information on all calls.
FCIGOCNIGI - Display/deliver CPN or RN information only
             on intra-group calls.
```

**Attribute: ffcf2**

**Fullname:** Future Field Feature Bit 2

**Attribute Description** Future Field Feature Usage.

**Attribute: ffcf3**

**Fullname:** Future Field Feature Bit 3

**Attribute Description** Future Field Feature Usage.

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# TGLTME_R

## 1. Description

Terminal group error treatment data for a logical termination index. This is a root storage relation.

Defines the forward-to DN and the routing index data if terminal group station restriction error treatment is to be applied.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 28800 |
| expected number of tuples | 123 |
| density | 27 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTORAGE |
| foldtype | DBGC31 |

## 3. Field Layout

```
TGLTME_R    relid = 1664  DBSTORAGE  DBACC_HASH  DBPRAM    LPFG    RCMAP
     o_an_ind    DMSYSID      (short)
     t_an_ind    DMSYSID      (short)
     ltm_idx     DMLTM_IDX    (ulong: 16)  <--- key
     origdn      DMGK14       (ulong: 14)
 (a) ltm_type    DMLTM_TYPE   (enum: 1)  <--- key
 (b) ffcf1       DMBOOL       (enum: 1)
     destdn      DMGK14       (ulong: 14)
 (c) ffcf2       DMBOOL       (enum: 1)
 (d) ffcf3       DMBOOL       (enum: 1)
     lead_module  DMMODULE     (ushort: 8)  <--- key
         User, Compacted and Stored Tuple Layout   TGLTME_R
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            o_an_ind           |            t_an_ind           |
    |---------------+---------------+---------------+---------------|
    |                               |                           | | |
  4 |            ltm_idx            |           origdn          |a|b|
    |---------------+---------------+---------------+---------------|
    |                           | | |               |               |
  8 |           destdn          |c|d|  lead_module  |***************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLtgltme_r

There are no population rules for this relation.

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# TGMB_G

## 1. Description

Trunk group member maps. This is a child storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8000 |
| expected | 200 |
| access type | DBACC_GK |
| distribution | LP |
| application type | CGA |
| relation type | DBSTORAGE |
| memory type | DBPRAM |
| foldtype | DBGC31 |
| ks key store | DBNO |
| gkidxrel GK-index relation | rlTGMB_I |

## 3. Field Layout

```
TGMB_G      relid = 2142  DBSTORAGE  DBACC_GK    DBPRAM    LP      CGA
     gkTGMB_G    DMGK14       (ulong: 14)  <--- key, not stored
     tgmap_1     DMHEX32      (ulong)
     tgmap_2     DMHEX32      (ulong)
     tgmap_3     DMHEX32      (ulong)
     tgmap_4     DMHEX32      (ulong)
     tgmap_5     DMHEX32      (ulong)
     tgmap_6     DMHEX32      (ulong)
     tgmap_7     DMHEX32      (ulong)
     tgmap_8     DMHEX32      (ulong)
     tgmap_9     DMHEX32      (ulong)
     tgmap_10    DMHEX32      (ulong)
     tgmap_11    DMHEX32      (ulong)
     tgmap_12    DMHEX32      (ulong)
     tgmap_13    DMHEX32      (ulong)
     tgmap_14    DMHEX32      (ulong)
         User and Compacted Tuple Layout     TGMB_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkTGMB_G             |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  4 |                            tgmap_1                              |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
  8 |                            tgmap_2                              |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 12 |                            tgmap_3                              |
    |---------------+---------------+---------------+---------------|
    |                                                                 |
 16 |                            tgmap_4                              |
    |---------------+---------------+---------------+---------------|
```

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```
   |                                                                       |
20 |                            tgmap_5                                    |
   |---------------+---------------+---------------+---------------|
   |                                                                       |
24 |                            tgmap_6                                    |
   |---------------+---------------+---------------+---------------|
   |                                                                       |
28 |                            tgmap_7                                    |
   |---------------+---------------+---------------+---------------|
   |                                                                       |
32 |                            tgmap_8                                    |
   |---------------+---------------+---------------+---------------|
   |                                                                       |
36 |                            tgmap_9                                    |
   |---------------+---------------+---------------+---------------|
   |                                                                       |
40 |                            tgmap_10                                   |
   |---------------+---------------+---------------+---------------|
   |                                                                       |
44 |                            tgmap_11                                   |
   |---------------+---------------+---------------+---------------|
   |                                                                       |
48 |                            tgmap_12                                   |
   |---------------+---------------+---------------+---------------|
   |                                                                       |
52 |                            tgmap_13                                   |
   |---------------+---------------+---------------+---------------|
   |                                                                       |
56 |                            tgmap_14                                   |
   |---------------+---------------+---------------+---------------|
     ( 60 bytes )
    tgmap_1     DMHEX32      (ulong)
    tgmap_2     DMHEX32      (ulong)
    tgmap_3     DMHEX32      (ulong)
    tgmap_4     DMHEX32      (ulong)
    tgmap_5     DMHEX32      (ulong)
    tgmap_6     DMHEX32      (ulong)
    tgmap_7     DMHEX32      (ulong)
    tgmap_8     DMHEX32      (ulong)
    tgmap_9     DMHEX32      (ulong)
    tgmap_10    DMHEX32      (ulong)
    tgmap_11    DMHEX32      (ulong)
    tgmap_12    DMHEX32      (ulong)
    tgmap_13    DMHEX32      (ulong)
    tgmap_14    DMHEX32      (ulong)
          Stored Tuple Layout   TGMB_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                                       |
 0 |                          GK LINK FIELD                                |
   |---------------+---------------+---------------+---------------|
   |                                                                       |
 4 |                            tgmap_1                                    |
```

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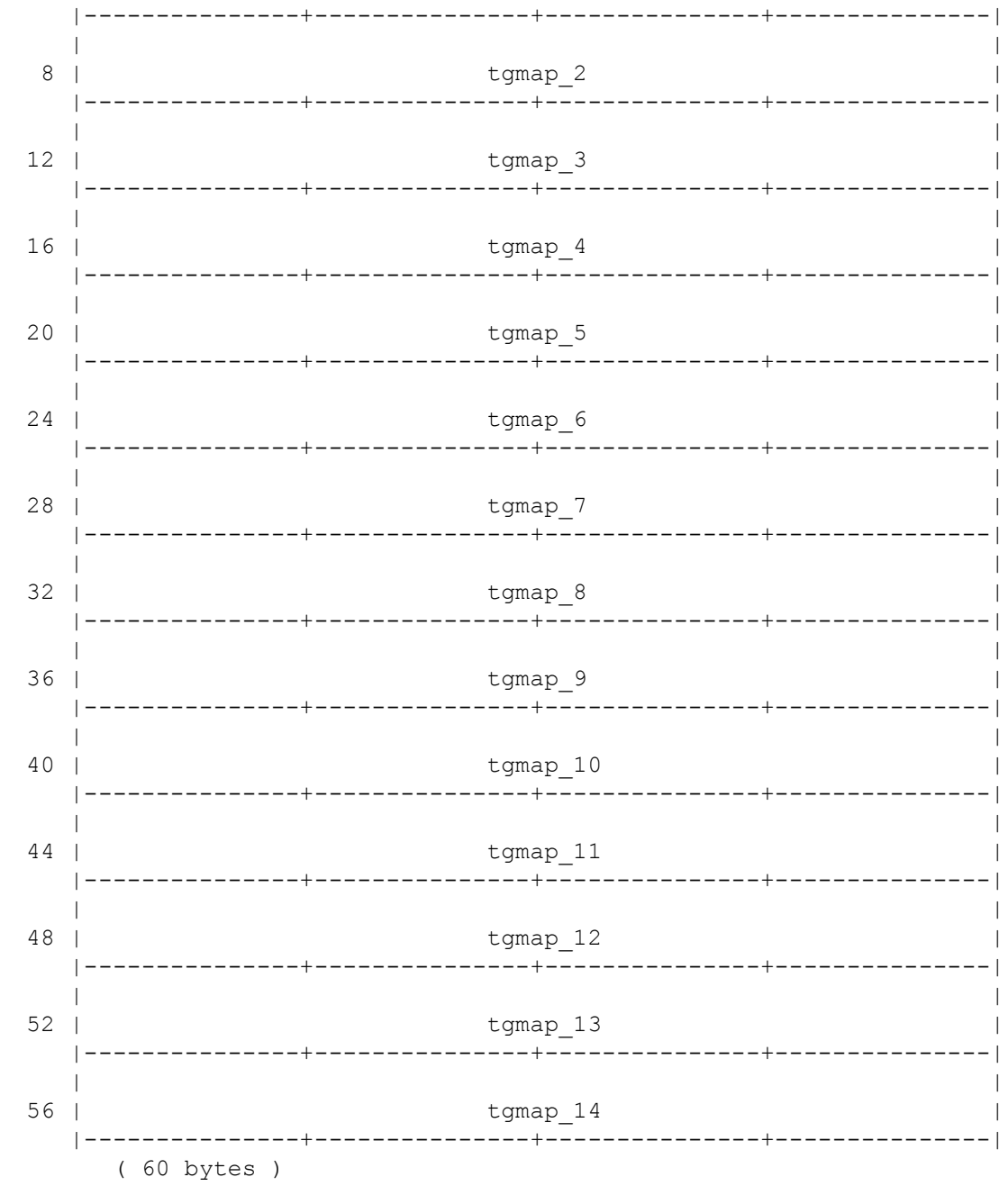


## 4. Population Rules for RLtgmb_g

There are no population rules for this relation.

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# TGMB_R

## 1. Description

Root relation for TGMBR_AM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum | 2000 |
| expected | 500 |
| access type | DBACC_CIND |
| distribution | LP |
| application type | CGA |
| memory type | DBPRAM |
| relation type | DBSTORAGE |
| ks key store | DBYES |

## 3. Field Layout

```
TGMB_R      relid = 2144  DBSTORAGE  DBACC_CIND  DBPRAM    LP      CGA
     tgmbptr1    DMGK14       (ulong: 14)
     tgmbptr2    DMGK14       (ulong: 14)
     tgmbptr3    DMGK14       (ulong: 14)
     tgmbptr4    DMGK14       (ulong: 14)
     tgnum       DMGRUPNM     (ushort: 11)  <--- key
     servclass   DMSERVCLASS  (enum)
     tgmap0      DMHEX32      (ulong)
     tgmap1      DMHEX32      (ulong)
     tgmap2      DMHEX32      (ulong)
     tgmap3      DMHEX32      (ulong)
     tgmap4      DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout TGMB_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
  0 |           tgmbptr1            |           tgmbptr2            |*******|
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
  4 |           tgmbptr3            |           tgmbptr4            |*******|
    |---------------+---------------+---------------+---------------|
    |                       |         |               |               |
  8 |         tgnum         |*********|   servclass   |***************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                             tgmap0                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                             tgmap1                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                             tgmap2                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 24 |                             tgmap3                            |
    |---------------+---------------+---------------+---------------|
```

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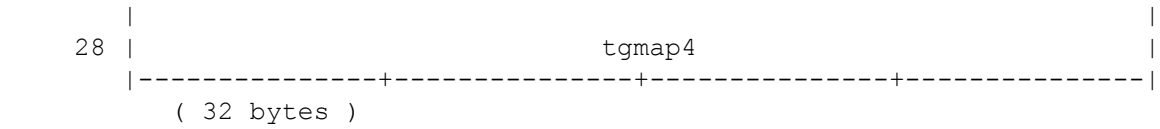


## 4. Population Rules for RLtgmb_r

There are no population rules for this relation.

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# TGMBR_AM

## 1. Description

Maps trunk group members equipped on all SM's.

The tree diagram depicts Figure 1 the stored structure of virtual relation TGMBR_AM.

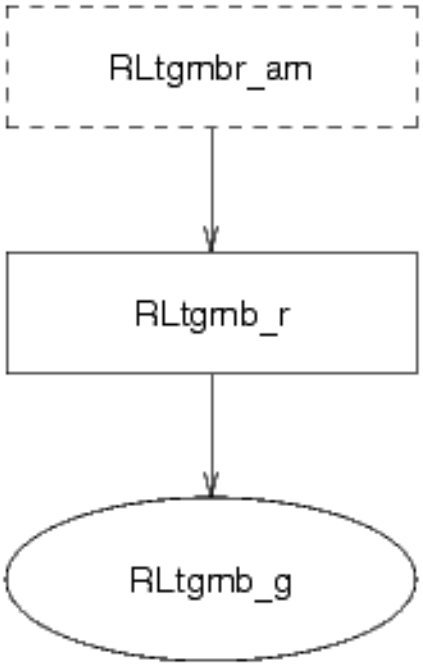


**Figure 1 Stored Structure of Virtual Relation TGMBR_AM**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application type | CGA |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
TGMBR_AM    relid = 2145  DBSTATIC   DBACC_OPV   DBNOTODD  LP      CGA
     tgnum       DMGRUPNM     (ushort: 13)    <--- key
     servclass   DMSERVCLASS  (enum)
     tgmap0      DMHEX32      (ulong)
     tgmap1      DMHEX32      (ulong)
     tgmap2      DMHEX32      (ulong)
     tgmap3      DMHEX32      (ulong)
     tgmap4      DMHEX32      (ulong)
     tgmap5      DMHEX32      (ulong)
     tgmap6      DMHEX32      (ulong)
     tgmap7      DMHEX32      (ulong)
     tgmap8      DMHEX32      (ulong)
     tgmap9      DMHEX32      (ulong)
```

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```
 tgmap10     DMHEX32      (ulong)
 tgmap11     DMHEX32      (ulong)
 tgmap12     DMHEX32      (ulong)
 tgmap13     DMHEX32      (ulong)
 tgmap14     DMHEX32      (ulong)
 tgmap15     DMHEX32      (ulong)
 tgmap16     DMHEX32      (ulong)
 tgmap17     DMHEX32      (ulong)
 tgmap18     DMHEX32      (ulong)
 tgmap19     DMHEX32      (ulong)
 tgmap20     DMHEX32      (ulong)
 tgmap21     DMHEX32      (ulong)
 tgmap22     DMHEX32      (ulong)
 tgmap23     DMHEX32      (ulong)
 tgmap24     DMHEX32      (ulong)
 tgmap25     DMHEX32      (ulong)
 tgmap26     DMHEX32      (ulong)
 tgmap27     DMHEX32      (ulong)
 tgmap28     DMHEX32      (ulong)
 tgmap29     DMHEX32      (ulong)
 tgmap30     DMHEX32      (ulong)
 tgmap31     DMHEX32      (ulong)
 tgmap32     DMHEX32      (ulong)
 tgmap33     DMHEX32      (ulong)
 tgmap34     DMHEX32      (ulong)
 tgmap35     DMHEX32      (ulong)
 tgmap36     DMHEX32      (ulong)
 tgmap37     DMHEX32      (ulong)
 tgmap38     DMHEX32      (ulong)
 tgmap39     DMHEX32      (ulong)
 tgmap40     DMHEX32      (ulong)
 tgmap41     DMHEX32      (ulong)
 tgmap42     DMHEX32      (ulong)
 tgmap43     DMHEX32      (ulong)
 tgmap44     DMHEX32      (ulong)
 tgmap45     DMHEX32      (ulong)
 tgmap46     DMHEX32      (ulong)
 tgmap47     DMHEX32      (ulong)
 tgmap48     DMHEX32      (ulong)
 tgmap49     DMHEX32      (ulong)
 tgmap50     DMHEX32      (ulong)
 tgmap51     DMHEX32      (ulong)
 tgmap52     DMHEX32      (ulong)
 tgmap53     DMHEX32      (ulong)
 tgmap54     DMHEX32      (ulong)
 tgmap55     DMHEX32      (ulong)
 tgmap56     DMHEX32      (ulong)
 tgmap57     DMHEX32      (ulong)
 tgmap58     DMHEX32      (ulong)
 tgmap59     DMHEX32      (ulong)
 tgmap60     DMHEX32      (ulong)
     User, Compacted and Stored Tuple Layout   TGMBR_AM
|3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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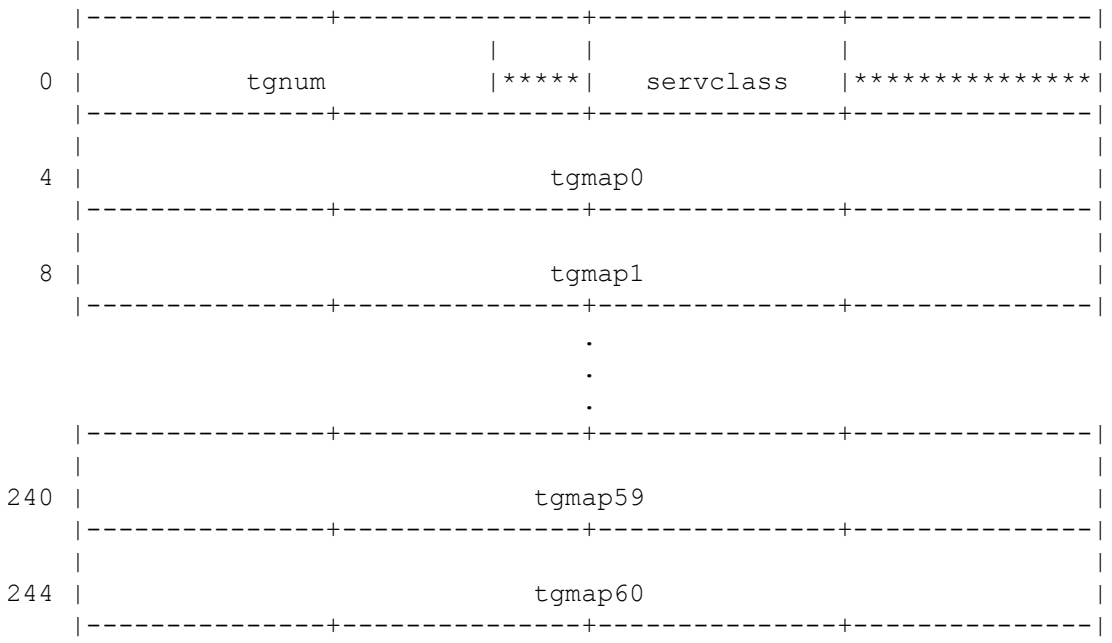


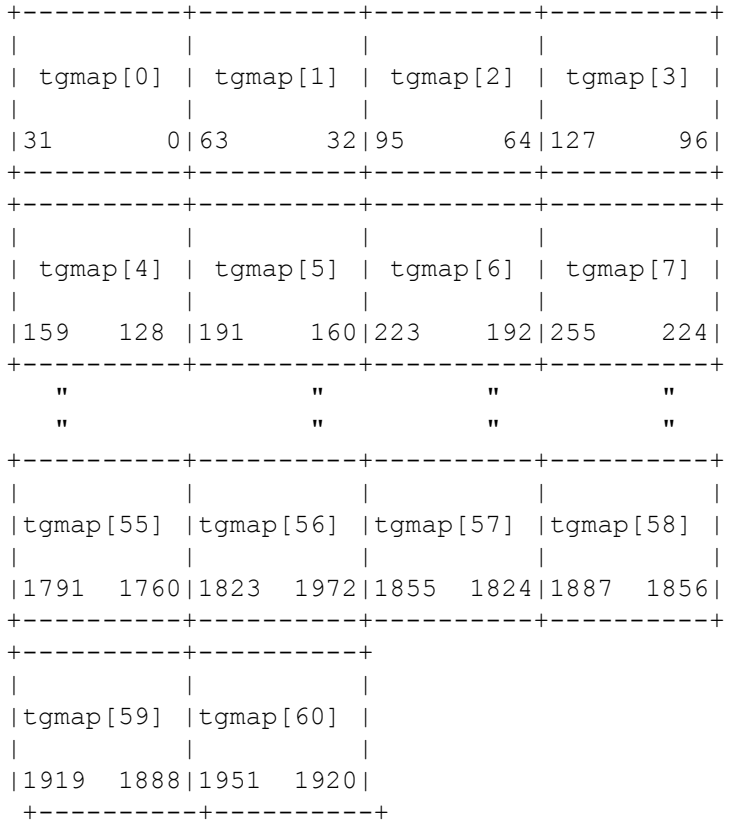

## 4. Population Rules for RLtgmbr_am

**Relation Description** Trunk Group to 5E DCS member

MappingThis relation contains a bit map of all members across all SM's for each *5ESS*®-2000 switch DCS trunk group.

The following diagram illustrates the layout of the trunk members as they are represented in the bit map. TG member 0 will be in the low order bit of tgmap[0] and TG member 1951 will be the highest member number stored in tgmap[60].

A value of 0 means that the TG has no members on this SM, a value of 1 means that it does.




**Attribute: tgnum**

**Fullname:** Trunk Group Number

**Attribute Description** Primary key to the relation.

**Attribute: servclass**

**Fullname:** Class of Service.

**Attribute Description** Trunk class of service.

**Attribute: tgmap[*]**

**Fullname:** Bit map for trunk group members 1 -1951

**Attribute Description** Each tuple can contain up to 61 maps ( tgmap0 - tgmap60 ). If bit is on, the 5E DCS trunk group contains a member whose number corresponds to the position in the bitmap. The 0 bit in tgmap[0] is not used.

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# TGNLEC

## 1. Description

This relation maps a TGN to the appropriate text to be displayed to an operator when a call comes to an OSPS operator position. The text is specified by/for the LEC whose traffic the trunk carries.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8191 |
| expected tuples in relation | 219 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
TGNLEC      relid = 1010  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     tgn         DMGRUPNM     (ushort: 13)    <--- key
 (a) ospsff2     DMUNS3       (ushort: 3)
     lecidx      DMLECTXT     (ushort: 11)
     ospsff1     DMUNS5       (ushort: 5)
         User, Compacted and Stored Tuple Layout TGNLEC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           |     |                       |         |
  0 |           tgn             |  a  |        lecidx         | ospsff1 |
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLtgnlec

**Relation Description** Mapping of Trunk Group Number to Operator Display Text

This relation maps a TGN to the appropriate text to be displayed to an operator when a call comes to an OSPS operator position. The text is specified by or for the local exchange carrier whose traffic the trunk carries.

**Attribute: tgn**

**Fullname:** Trunk Group Number

**Attribute Description** A trunk group number entered in this relation is assumed to be a local exchange carrier for whom identification/branding/restriction at the operator position is desired.

**Attribute: ospsff1**

This relation maps a TGN to the appropriate text to be displayed to an operator when a call comes to an OSPS operator position. The text is specified by or for the local exchange carrier whose traffic the trunk carries.

**Fullname:** OSPS fast feature
**Attribute Description** This attribute is to be used for future OSPS fast feature development. Recent Changeable.

**Attribute: lecidx**

This relation maps a TGN to the appropriate text to be displayed to an operator when a call comes

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to an OSPS operator position. The text is specified by or for the local exchange carrier whose traffic the trunk carries.

**Fullname:** Index into Table of Local Exchange Carrier Identifying Text
**Attribute Description** This is an index into a table (RLlectext) of Local Exchange Carrier (LEC) identifying text.

**Attribute: ospsff2**

This relation maps a TGN to the appropriate text to be displayed to an operator when a call comes to an OSPS operator position. The text is specified by or for the local exchange carrier whose traffic the trunk carries.

**Fullname:** OSPS fast feature
**Attribute Description** This attribute is to be used for future OSPS fast feature development. Recent Changeable.

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# TGNTNSC

## 1. Description

LDP Terminating Network Selection Code Trunk Group Number
This relation is used to translate the incoming Terminating Network Selection Code value for a given trunk group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 2000000 |
| expected tuples | 10000 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
TGNTNSC     relid = 2783  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     grpnum      DMGRPNUM     (ushort)    <--- key, not stored
     inc_tnsc    DMTNSC       (ushort: 10)    <--- key, not stored
     tnsc        DMTNSC       (ushort: 10)
         User and Compacted Tuple Layout    TGNTNSC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                   |           |
  0 |             grpnum            |      inc_tnsc     |***********|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  4 |        tnsc       |*******************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     tnsc        DMTNSC       (ushort: 10)
           Stored Tuple Layout      TGNTNSC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                   |                                           |
  0 |        tnsc       |*******************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLtgntnsc

**Relation Description**Trunk Group Number for the Terminating Network Selection Code

This relation is used to translate the incoming Terminating Network Selection Code value for a given trunk group.

**Attribute: grpnum**

**Fullname:** Trunk group number

**Attribute Description** The trunk group number.

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**Attribute: inc_tnsc**

This relation maps a TGN to the appropriate text to be displayed to an operator when a call comes to an OSPS operator position. The text is specified by or for the local exchange carrier whose traffic the trunk carries.

**Fullname:** Incoming Terminating Network Selection Code
**Attribute Description** The Incoming Terminating Network Selection Code.

**Attribute: tnsc**

This relation maps a TGN to the appropriate text to be displayed to an operator when a call comes to an OSPS operator position. The text is specified by or for the local exchange carrier whose traffic the trunk carries.

**Fullname:** Terminating Network Selection Code
**Attribute Description** Used to segregate traffic for MINT signaling.

**Defines:** "db/DMtnsc.h"

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# TGRPRK_R

## 1. Description

This is the trunk group recent change remarks data Root storage relation for RCTGRPRK.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8191 |
| expected number of tuples | 157 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | CCS |
| relation type | DBSTORAGE |
| ks key store | AUTO |

## 3. Field Layout

```
TGRPRK_R    relid = 1722  DBSTORAGE  DBACC_CIND  DBPRAM    LP      CCS


     grpnum       DMGRUPNM     (ushort: 13)      <--- key, not stored
     fac_num      DMUNS17      (ulong: 17)
     apicode      DMUNS14      (ushort: 14)
 (a) uuiic_rstrct  DMBOOL        (enum: 1)
     ffcf6        DMHEX16      (ushort)
     remarks      DMGK16       (ulong: 16)
     tg_char      DMGK14       (ulong: 14)
     feclli       DMGK14       (ulong: 14)
 (b) annc_apl     DMSVC_GRP    (enum: 3)
 (c) privacy      DMBOOL       (enum: 1)
     neclli       DMGK14       (ulong: 14)
     billdn       DMGK14       (ulong: 14)
 (d) vpa_type     DMVPA_TYPE   (enum: 4)
     dircondn     DMGK14       (ulong: 14)
     mkbusy       DMGK14       (ulong: 14)
 (e) e911type     DME911TYPE   (enum: 4)
     tgatt        DMGK14       (ulong: 14)
 (f) glare_action  DMGLARE       (enum: 2)
     screen_x     DMSCRNIDX    (ushort: 12)
     tsps         DMTSPSTRAF   (enum: 3)
 (g) cpn_rstrct   DMBOOL       (enum: 1)
     esco         DMESCO       (ushort: 10)
     lnpsnid      DMUNS5       (ushort: 5)
 (h) chg_rstrct   DMBOOL       (enum: 1)
     servclass    DMSERVCLASS  (enum)
     module       DMMODULE     (ushort: 8)
     insep        DMINSEP      (ushort: 8)
     ffcf5        DMUNS8       (ushort: 8)
     trignum      DMUNS8       (ushort: 8)
     digtree      DMDA_TREE    (ushort: 7)
 (i) ln_virt_on   DMBOOL       (enum: 1)
     maxhopcnt    DMUNS5       (ushort: 5)
 (j) acctprompt   DMACCTPR     (enum: 3)
 (k) ancycl       DMANCYCL     (ushort: 3)
```

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```
(l) ani_type     DMUNS3        (ushort: 3)
(m) rcd_3pt1_itc  DMRCD_3PT1    (enum: 2)
(n) intsig       DMINTERSIG    (enum: 2)
(o) datarate     DMDATARATE    (enum: 2)
(p) ln_type      DMLNTYPE      (enum: 2)
(q) std_fxtie    DMFX_TIE      (enum: 2)
(r) mlppstage    DMMLPPST      (enum: 2)
(s) pref_npa     DMPREF_NPA    (enum: 2)
(t) eon_plan     DMEON_PLAN    (enum: 2)
(u) atpic_rstrct  DMBOOL        (enum: 1)
(v) cfn_rstrct   DMBOOL        (enum: 1)
(w) ccs7_typ     DMCCS7_TYP    (enum: 1)
(x) outpuls      DMBOOL        (enum: 1)
(y) audring      DMBOOL        (enum: 1)
(z) freetrm      DMBOOL        (enum: 1)
(A) cnrtninit    DMBOOL        (enum: 1)
(B) cnrtnfnl     DMBOOL        (enum: 1)
(C) tspsopr      DMBOOL        (enum: 1)
(D) ringbck      DMBOOL        (enum: 1)
(E) castmon      DMBOOL        (enum: 1)
(F) lowtndet     DMBOOL        (enum: 1)
(G) antype       DMBOOL        (enum: 1)
(H) bargein      DMBOOL        (enum: 1)
(I) fcaudible    DMBOOL        (enum: 1)
(J) free_ans     DMBOOL        (enum: 1)
(K) brc          DMBOOL        (enum: 1)
(L) cut_thru     DMBOOL        (enum: 1)
(M) inc_tndwnk   DMBOOL        (enum: 1)
(N) trk_qry      DMBOOL        (enum: 1)
(O) xlt_tst      DMBOOL        (enum: 1)
(P) sdnded       DMBOOL        (enum: 1)
(Q) sgd          DMBOOL        (enum: 1)
(R) unres_ea     DMBOOL        (enum: 1)
(S) pvnterm      DMBOOL        (enum: 1)
(T) retry        DMBOOL        (enum: 1)
(U) lsdel_ans    DMBOOL        (enum: 1)
(V) rdta_grp     DMBOOL        (enum: 1)
(W) ani6         DMBOOL        (enum: 1)
(X) ani7         DMBOOL        (enum: 1)
(Y) asi_use      DMBOOL        (enum: 1)
(Z) utt          DMBOOL        (enum: 1)
(a) ffcf1        DMBOOL        (enum: 1)
(b) ffcf2        DMBOOL        (enum: 1)
(c) ffcf3        DMBOOL        (enum: 1)
(d) ffcf4        DMBOOL        (enum: 1)
(e) cont_test    DMBOOL        (enum: 1)
(f) spbool1      DMBOOL        (enum: 1)
(g) spbool2      DMBOOL        (enum: 1)
(h) mltislcopt   DMBOOL        (enum: 1)
(i) mai          DMMAI         (enum: 1)
(j) asptoll      DMBOOL        (enum: 1)
(k) far_e911     DMBOOL        (enum: 1)
(l) tdx_trk      DMBOOL        (enum: 1)
(m) term_bill    DMBOOL        (enum: 1)
```

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```
(n) ani_proc    DMBOOL       (enum: 1)
(o) isupmld     DMBOOL       (enum: 1)
(p) ported      DMBOOL       (enum: 1)
(q) asp_carrtrig  DMBOOL       (enum: 1)
(r) vpn_access  DMBOOL       (enum: 1)
(s) mbg_trans   DMBOOL       (enum: 1)
(t) ct_for_dt   DMBOOL       (enum: 1)
(u) eonpriv_ind  DMBOOL       (enum: 1)
(v) eonpref_ind  DMBOOL       (enum: 1)
    eonbill_dn  DMDN         (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
        User and Compacted Tuple Layout   TGRPRK_R
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |          grpnum               |*******************************|
   |---------------+---------------+---------------+---------------|
   |                                 |                             | |
 4 |              fac_num            |          apicode            |a|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 8 |              ffcf6              |            remarks            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |     | |
12 |          tg_char              |           feclli              |  b  |c|
   |---------------+---------------+---------------+---------------|
   |                               |                               |       |
16 |           neclli              |           billdn              |   d   |
   |---------------+---------------+---------------+---------------|
   |                               |                               |       |
20 |          dircondn             |           mkbusy              |   e   |
   |---------------+---------------+---------------+---------------|
   |                               |   |                           |     | |
24 |           tgatt               | f |        screen_x           | tsps|g|
   |---------------+---------------+---------------+---------------|
   |                   |         | |               |               |
28 |        esco       | lnpsnid |h|   servclass   |     module    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               | |
32 |     insep     |     ffcf5     |    trignum    |   digtree     |i|
   |---------------+---------------+---------------+---------------|
   |         |     |     |     |   |   |   |   |   |   |   |   | | |
36 |maxhopcnt|  j  |  k  |  l  | m | n | o | p | q | r | s | t |u|v|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
40 |w|x|y|z|A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z|a|b|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | | | | | | |                       |
44 |c|d|e|f|g|h|i|j|k|l|m|n|o|p|q|r|s|t|u|v|***********************|
   |===============+=========  eonbill_dn =========+===============|
   |       |       |                                               |
48 | digcnt|*******|                      dn                       |
```

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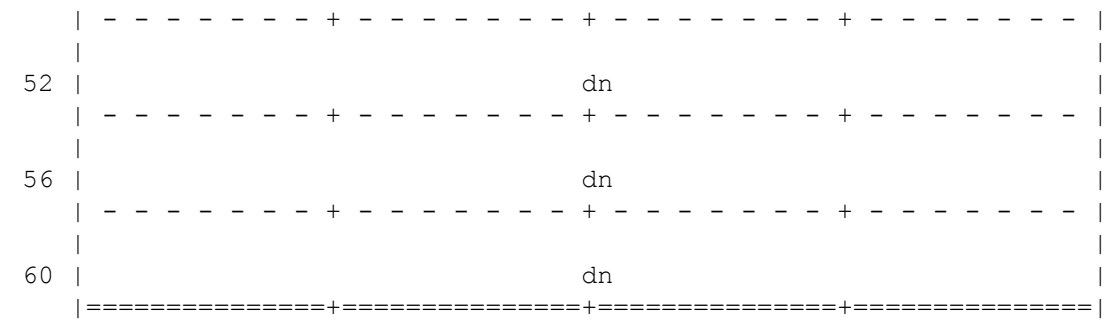


```
    fac_num      DMUNS17       (ulong: 17)
    apicode      DMUNS14       (ushort: 14)
(a) uuiic_rstrct  DMBOOL         (enum: 1)
    ffcf6        DMHEX16       (ushort)
    remarks      DMGK16        (ulong: 16)
    tg_char      DMGK14        (ulong: 14)
    feclli       DMGK14        (ulong: 14)
(b) annc_apl     DMSVC_GRP     (enum: 3)
(c) privacy      DMBOOL        (enum: 1)
    neclli       DMGK14        (ulong: 14)
    billdn       DMGK14        (ulong: 14)
(d) vpa_type     DMVPA_TYPE    (enum: 4)
    dircondn     DMGK14        (ulong: 14)
    mkbusy       DMGK14        (ulong: 14)
(e) e911type     DME911TYPE    (enum: 4)
    tgatt        DMGK14        (ulong: 14)
(f) glare_action  DMGLARE        (enum: 2)
    screen_x     DMSCRNIDX     (ushort: 12)
    tsps         DMTSPSTRAF    (enum: 3)
(g) cpn_rstrct   DMBOOL        (enum: 1)
    esco         DMESCO        (ushort: 10)
    lnpsnid      DMUNS5        (ushort: 5)
(h) chg_rstrct   DMBOOL        (enum: 1)
    servclass    DMSERVCLASS   (enum)
    module       DMMODULE      (ushort: 8)
    insep        DMINSEP       (ushort: 8)
    ffcf5        DMUNS8        (ushort: 8)
    trignum      DMUNS8        (ushort: 8)
    digtree      DMDA_TREE     (ushort: 7)
(i) ln_virt_on   DMBOOL        (enum: 1)
    maxhopcnt    DMUNS5        (ushort: 5)
(j) acctprompt   DMACCTPR      (enum: 3)
(k) ancycl       DMANCYCL      (ushort: 3)
(l) ani_type     DMUNS3        (ushort: 3)
(m) rcd_3pt1_itc  DMRCD_3PT1     (enum: 2)
(n) intsig       DMINTERSIG    (enum: 2)
(o) datarate     DMDATARATE    (enum: 2)
(p) ln_type      DMLNTYPE      (enum: 2)
(q) std_fxtie    DMFX_TIE      (enum: 2)
(r) mlppstage    DMMLPPST      (enum: 2)
(s) pref_npa     DMPREF_NPA    (enum: 2)
```

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```
(t) eon_plan    DMEON_PLAN   (enum: 2)
(u) atpic_rstrct  DMBOOL       (enum: 1)
(v) cfn_rstrct  DMBOOL       (enum: 1)
(w) ccs7_typ    DMCCS7_TYP   (enum: 1)
(x) outpuls     DMBOOL       (enum: 1)
(y) audring     DMBOOL       (enum: 1)
(z) freetrm     DMBOOL       (enum: 1)
(A) cnrtninit   DMBOOL       (enum: 1)
(B) cnrtnfnl    DMBOOL       (enum: 1)
(C) tspsopr     DMBOOL       (enum: 1)
(D) ringbck     DMBOOL       (enum: 1)
(E) castmon     DMBOOL       (enum: 1)
(F) lowtndet    DMBOOL       (enum: 1)
(G) antype      DMBOOL       (enum: 1)
(H) bargein     DMBOOL       (enum: 1)
(I) fcaudible   DMBOOL       (enum: 1)
(J) free_ans    DMBOOL       (enum: 1)
(K) brc         DMBOOL       (enum: 1)
(L) cut_thru    DMBOOL       (enum: 1)
(M) inc_tndwnk  DMBOOL       (enum: 1)
(N) trk_qry     DMBOOL       (enum: 1)
(O) xlt_tst     DMBOOL       (enum: 1)
(P) sdnded      DMBOOL       (enum: 1)
(Q) sgd         DMBOOL       (enum: 1)
(R) unres_ea    DMBOOL       (enum: 1)
(S) pvnterm     DMBOOL       (enum: 1)
(T) retry       DMBOOL       (enum: 1)
(U) lsdel_ans   DMBOOL       (enum: 1)
(V) rdta_grp    DMBOOL       (enum: 1)
(W) ani6        DMBOOL       (enum: 1)
(X) ani7        DMBOOL       (enum: 1)
(Y) asi_use     DMBOOL       (enum: 1)
(Z) utt         DMBOOL       (enum: 1)
(a) ffcf1       DMBOOL       (enum: 1)
(b) ffcf2       DMBOOL       (enum: 1)
(c) ffcf3       DMBOOL       (enum: 1)
(d) ffcf4       DMBOOL       (enum: 1)
(e) cont_test   DMBOOL       (enum: 1)
(f) spbool1     DMBOOL       (enum: 1)
(g) spbool2     DMBOOL       (enum: 1)
(h) mltislcopt  DMBOOL       (enum: 1)
(i) mai         DMMAI        (enum: 1)
(j) asptoll     DMBOOL       (enum: 1)
(k) far_e911    DMBOOL       (enum: 1)
(l) tdx_trk     DMBOOL       (enum: 1)
(m) term_bill   DMBOOL       (enum: 1)
(n) ani_proc    DMBOOL       (enum: 1)
(o) isupmld     DMBOOL       (enum: 1)
(p) ported      DMBOOL       (enum: 1)
(q) asp_carrtrig  DMBOOL       (enum: 1)
(r) vpn_access  DMBOOL       (enum: 1)
(s) mbg_trans   DMBOOL       (enum: 1)
(t) ct_for_dt   DMBOOL       (enum: 1)
(u) eonpriv_ind  DMBOOL       (enum: 1)
```

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```
(v) eonpref_ind  DMBOOL       (enum: 1)
    eonbill_dn  DMDN         (struct)
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
          Stored Tuple Layout     TGRPRK_R
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                 |                             | |
 0 |             fac_num             |          apicode            |a|
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 4 |             ffcf6               |            remarks            |
   |---------------+---------------+---------------+---------------|
   |                                 |                             |   | |
 8 |          tg_char                |           feclli            |  b  |c|
   |---------------+---------------+---------------+---------------|
   |                                 |                             |       |
12 |           neclli                |           billdn            |   d   |
   |---------------+---------------+---------------+---------------|
   |                                 |                             |       |
16 |          dircondn               |           mkbusy            |   e   |
   |---------------+---------------+---------------+---------------|
   |                                 |   |                         |   | | |
20 |           tgatt                 | f |        screen_x         |tsps|g|
   |---------------+---------------+---------------+---------------|
   |                   |           | | |               |               |
24 |        esco       | lnpsnid |h|   servclass   |     module    |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               | |
28 |     insep     |     ffcf5     |    trignum    |   digtree   |i|
   |---------------+---------------+---------------+---------------|
   |         |     |     |     |   |   |   |   |   |   |   |   | | |
32 |maxhopcnt|  j  |  k  |  l  | m | n | o | p | q | r | s | t |u|v|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
36 |w|x|y|z|A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z|a|b|
   |---------------+---------------+---------------+---------------|
   | | | | | | | | | | | | | | | | | | | |                       |
40 |c|d|e|f|g|h|i|j|k|l|m|n|o|p|q|r|s|t|u|v|***********************|
   |===============+=========  eonbill_dn =========+===============|
   |       |       |                                               |
44 | digcnt|*******|                      dn                       |
   | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
48 |                             dn                                |
   | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
52 |                             dn                                |
   | - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
56 |                             dn                                |
   |===============+===============+===============+===============|
     ( 60 bytes )
```

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## 4. Population rules for RLtgrprk_r

**Relation Description**

There are no population rules for this relation.

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# TGTOATT

## 1. Description

TGB and TGW monitoring attendant group

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 200 |
| expected number of tuples | 5 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| application | GCRTG |
| relation type | DBSTATIC |

## 3. Field Layout

```
TGTOATT     relid = 954   DBSTATIC   DBACC_HASH  DBPRAM    LPFR    GCRTG
     grpnum      DMGRUPNM     (ushort: 13)    <--- key
 (a) pftype      DMPFTYPE     (enum: 1)    <--- key
     isat_idx    DMISATGRP    (ushort: 6)
         User, Compacted and Stored Tuple Layout    TGTOATT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           | |   |           |                   |
  0 |          grpnum           |a|***|  isat_idx |*******************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLtgtoatt

**Relation Description** Trunk Group to Attendant

The population of this relation associates an ISDN Attendant (ISAT) Multi-Line Hunt Group (MLHG) with a physical trunk group or simulated facility group that is to be monitored and/or controlled by the ISAT MLHG.

If a RLtgtoatt tuple exist there must exist a RLrt_mhg tuple where:

RLrt_mhg.isat_idx equals RLtgtoatt.isat_idx.
If a physical trunk group is associated with an ISAT Multi-Line Hunt Group (MLHG), for example, a RLtgtoatt tuple exists where RLtgtoatt.pftype equals PFPHYS, then a RLrt_trkg tuple must exist where:
RLrt_trkg.grpnum equals RLtgtoatt.grpnum
RLrt_trkg.isdntgbwl will only be set to DBYES if the busy/idle status of the physical trunk group is monitored by an ISAT group. In addition, if RLrt_trkg.isdntgbwl is set to DBYES then a corresponding RLtgtoatt tuple must exist.
If a simulated facility group is associated with an ISAT Multi-Line Hunt Group (MLHG), that is, a RLtgtoatt tuple exists where RLtgtoatt.pftype equals PFSFG, then a RLrt_sfg tuple must exist where:
RLrt_sfg.grpnum equals RLtgtoatt.grpnum
RLrt_sfg.isdntgbwl will only be set to DBYES if the busy/idle status of the simulated facility group is monitored by an ISAT group. In addition, if RLrt_sfg.isdntgbwl is set to DBYES then a corresponding RLtgtoatt tuple must exist.

**Attribute: grpnum**

**Fullname:** Trunk Group Number

**Attribute Description** Indicates group number of the simulated facility group or physical trunk

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group.

**Attribute: pftype**

**Fullname:** Physical or Simulated Trunk Group

**Attribute Description** Indicates if this is a simulated facility group (PFSFG) or a physical trunk group (PFPHYS).

**Attribute: isat_idx**

**Fullname:** ISAT Index

**Attribute Description** ISAT index is the abstract version of the ISAT Multi-Line Hunt Group (MLHG) number. RLtgtoatt.isat_idx must be equal to RLrt_mhg.isat_idx of the ISAT Multi-Line Hunt Group (MLHG) monitoring and/or controlling this physical trunk group or simulated facility group.

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# THCOSTAT

## 1. Description

Cutover status per thousands group residing in IM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 500 |
| expected number of tuples | 20 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFR |
| application | GCRTG |
| relation type | DBSTATIC |
| l1 length of subkey1 | 4 |
| p1 position of subkey1 | 16 |
| l2 length of subkey2 | 14 |
| p2 position of subkey2 | 0 |
| l3 length of subkey3 | 4 |
| p3 position of subkey3 | 20 |
| ks key store | AUTO |

## 3. Field Layout

```
THCOSTAT    relid = 258   DBSTATIC   DBACC_CIND  DBPRAM    LPFR    GCRTG
     noc          DMNOC         (ushort: 14)    <--- key, not stored
     digit        DMDIGIT       (char)    <--- key, not stored
     alt_rte      DMRTEIDX      (ushort: 14)
 (a) precut       DMCOSTATE     (enum: 1)
 (b) postcut      DMCOSTATE     (enum: 1)
         User and Compacted Tuple Layout   THCOSTAT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |   |               |               |
  0 |             noc               |***|     digit     |***************|
    |---------------+---------------+---------------+---------------|
    |                               | | |                               |
  4 |           alt_rte             |a|b|*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     alt_rte      DMRTEIDX      (ushort: 14)
 (a) precut       DMCOSTATE     (enum: 1)
 (b) postcut      DMCOSTATE     (enum: 1)
           Stored Tuple Layout     THCOSTAT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               | | |                               |
  0 |           alt_rte             |a|b|*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLthcostat

**Relation Description** Cutover status of thousand groups in the office.

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This relation is populated for gradual (1000-Line Group) or large terminal growth office cutovers.
An example population for a 'New' office for 3 1000-Line Groups in two normalized office codes would be as follows:

| NOC | DIGIT | PRECUT | POSTCUT | ALT_RTE |
|---|---|---|---|---|
| 1 | 1 | coinactive | coinactive | 10* |
| 1 | 9 | coinactive | coinactive | 144** |
| 2 | 4 | coinactive | coinactive | 146** |

* Where 10 is an RI resulting in reorder tone as treatment to a customer call. ** Where 144 and 146 are RIs resulting in routing the call back to the old office that serves the subscriber.
The data in this relation is only operative when the Cutover Program has been activated. For more information refer to ATT Practice ATT 5D5-105-200 Precutover and Cutover Procedures.

**Attribute: noc**

**Fullname:** Normalized Office Code.
**Attribute Description** All normalized office codes in the office. This is one of the keys to this relation.

**Attribute: digit**

**Fullname:** digit
**Attribute Description** This is the 'thousands' digit of all possible LOCDN's in an office, per normalized office code. This is the second key of this relation see the following example. For an office with nocs 0, 1 the relation would be populated as follows for a flash cut.

| NOC | DIGIT | PRECUT | POSTCUT | ALT_RTE |
|---|---|---|---|---|
| 0 | 1 | coinactive | coactive | 12* |
| 0 | 2 | ' ' | ' ' | '' |
| 0 | 3 | ' ' | ' ' | '' |
| 0 | 4 | ' ' | ' ' | '' |
| 0 | 5 | ' ' | ' ' | '' |
| 0 | 6 | ' ' | ' ' | '' |
| 0 | 7 | ' ' | ' ' | '' |
| 0 | 8 | ' ' | ' ' | '' |
| 0 | 9 | ' ' | ' ' | '' |
| 0 | 0 | ' ' | ' ' | '' |
| 1 | 1 | ' ' | ' ' | '' |
| 1 | 2 | ' ' | ' ' | '' |
| 1 | 3 | ' ' | ' ' | '' |
| 1 | 4 | ' ' | ' ' | '' |
| 1 | 5 | ' ' | ' ' | '' |
| 1 | 6 | ' ' | ' ' | '' |
| 1 | 7 | ' ' | ' ' | '' |
| 1 | 8 | ' ' | ' ' | '' |
| 1 | 9 | ' ' | ' ' | '' |
| 1 | 0 | ' ' | ' ' | '' |

*Where 12 is an RI resulting in reorder tone as treatment to a customer call.

**Attribute: precut**

**Fullname:** active/inactive line status in precut office state.
**Attribute Description** The coactive or coinactive state of a thousands group within a particular noc. In most cases, this should be populated as coinactive for a 'new' office. (After a cutover, the switch personnel uses RC/V to update this attribute to coactive. This prevents the office from 'slipping' or reverting to the inactive precut state).

**Attribute: postcut**

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**Fullname:** active/inactive line status in postcut office state.
**Attribute Description** The coactive or coinactive state of a particular thousands group within a particular noc when the office is in the postcut state. Those lines not slated for cutover will be marked as coinactive, while those slated for cutover will be marked as coactive.

**Attribute: alt_rte**

**Fullname:** Alternate Route Index
**Attribute Description** This is an alternate RI used by RTA to route calls attempting to terminate to an inactive line (lines with a coinactive line state). This route index may be used to route to an announcement, reorder tone or outgoing trunk to the 'old' office.

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# TID_INDX

## 1. Description

This WCTX relation contains the DN HLR/VLR data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3072 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution type | FP |
| relation type | DBSTATIC |
| corcable | DBYES |

## 3. Field Layout

```
TID_INDX    relid = 2217  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     tid          DMBCD_DN     (struct)    <--- key
         dn0          DMUNS4       (ushort: 4)
         dn1          DMUNS4       (ushort: 4)
         dn2          DMUNS4       (ushort: 4)
         dn3          DMUNS4       (ushort: 4)
         dn4          DMUNS4       (ushort: 4)
         dn5          DMUNS4       (ushort: 4)
         dn6          DMUNS4       (ushort: 4)
         dn7          DMUNS4       (ushort: 4)
         dn8          DMUNS4       (ushort: 4)
         dn9          DMUNS4       (ushort: 4)
         dn10         DMUNS4       (ushort: 4)
         dn11         DMUNS4       (ushort: 4)
         dn12         DMUNS4       (ushort: 4)
         dn13         DMUNS4       (ushort: 4)
         dn14         DMUNS4       (ushort: 4)
         digcnt       DMDIGCNT     (uchar: 4)
     pcs_idx      DMPCS_IDX    (ushort: 12)
 (a) rest_lst     DMREST_LST   (enum: 3)
         User, Compacted and Stored Tuple Layout   TID_INDX
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+============= tid =============+===============|
    |       |       |       |       |       |       |       |       |
  0 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
  4 |  dn8  |  dn9  |  dn10 |  dn11 |  dn12 |  dn13 |  dn14 | digcnt|
    |===============+===============+===============+===============|
    |                       |     |                                 |
  8 |        pcs_idx        |  a  |*********************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLtid_indx

**Relation Description** This wireless Centrex (WCTX) relation contains the TID HLR/VLR data.

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This relation is to map the TID to HLR index. The index is used to index into the relations RLsubdata, RLpcs_hlr and the dynamic relation RLpcs_vlr.

**Attribute: tid**

**Fullname:** Terminal Identifier number

**Attribute Description** It contains the terminal identifier(TID).

**Attribute: tid.dn[*]**

**Fullname:** Terminal Identifier number

**Attribute Description** Used to authenticate the subscriber unit (SU).

**Attribute: tid.digcnt**

**Fullname:** digit count

**Attribute Description** Number of digits.

**Attribute: pcs_idx**

**Fullname:** Index into the hlr data.

**Attribute Description** This relation contains subscriber data common to the home location register (HLR) and visitor location register (VLR).

**Attribute: rest_lst**

**Fullname:** Restriction List

**Attribute Description** This is the registration restriction list for the testset.

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# TIDGRP

## 1. Description

This WCTX relation contains the hundreds group of the terminal identifier (TID) to VLR SM data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| expected number of tuples | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution type | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
TIDGRP      relid = 2212  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     vsm         DMSM         (ushort: 8)
     tidgrp_rt   DMUNS7       (ushort: 7)  <--- key
         User and Compacted Tuple Layout     TIDGRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |      vsm      |  tidgrp_rt    |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
     vsm         DMSM         (ushort: 8)
     tidgrp_rt   DMUNS7       (ushort: 7)  <--- key
           Stored Tuple Layout   TIDGRP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |      vsm      |  tidgrp_rt    |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLtidgrp

**Relation Description** Translates TID hundreds group to module number.

This relation is to map the TID to SM. The last two digits of a TID are stored along with a SM number. This TID and SM will be used when a WCTX subscriber data is entered. The data will be mapped to the SM specified in this relation.

**Attribute: tidgrp_rt**

**Fullname:** Terminal identifier (TID) number hundreds group. This is the last two digits of the TID.

**Attribute Description** This is the last two digits of the TID.

**Attribute: vsm**

**Fullname:** The switch module number.

**Attribute Description** This is the switching module number the VLR data will be mapped to.

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# TIME_SET

## 1. Description

ITNA time_set_id used by ITNA to associate a start and stop time with an ID number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 29 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |

## 3. Field Layout

```
TIME_SET    relid = 1263  DBSTATIC   DBACC_LIN   DBPRAM    FG      NULL
     ts_cnt      DMUNS16      (ushort)
     start_min   DMUNS6       (ushort: 6)
     end_min     DMUNS6       (ushort: 6)
 (a) timeset_id  DMSET_ID     (enum: 5)  <--- key
     start_hr    DMUNS5       (ushort: 5)
     end_hr      DMUNS5       (ushort: 5)
         User, Compacted and Stored Tuple Layout   TIME_SET
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |           |           |       |
  0 |             ts_cnt            | start_min |  end_min  |*******|
    |---------------+---------------+---------------+---------------|
    |         |         |         |                                 |
  4 |    a    | start_hr|  end_hr |*********************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLtime_set

**Relation Description** Improved 3rd Number Acceptance (ITNA) time set list.

Relation used for ITNA to determine what times are appropriate for doing bill to 3rd number verbal verifications

**Attribute: timeset_id**

**Fullname:** Improved 3rd Number Acceptance time set ID number

**Attribute Description** Used as a key to RLtime_set to determine the associated begin and end times when automatic outpulsing to the third party number for verbal billing acceptance is appropriate.

**Attribute: start_hr**

**Fullname:** starting hour value for time-set-id.

**Attribute Description** This attribute is used for starting hour value for a time set ID. The valid range of values for start_hr is 00 through 23.

**Attribute: start_min**

**Fullname:** starting minute value for a time set ID.

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**Attribute Description** This value of this attribute marks the starting minute value for a time set ID. The valid range of values for start_min is 00 through 59.

**Attribute: end_hr**

**Fullname:** Ending hour value for a time set ID,

**Attribute Description** This attribute is used for ending hour value for a time set ID. The valid range of values for end_hr is 00 through 23.

**Attribute: end_min**

**Fullname:** Ending minute value for a time set ID.

**Attribute Description** This value of this attribute marks the ending minute value for a time set ID. The valid range of values for end_min is 00 through 59.

**Attribute: ts_cnt**

**Fullname:** Time Set Count used to determine the number of times a particular time set ID is used.

**Attribute Description** This attribute is used to keep a count of the number of times a particular time set id is used. This is required by recent change (RC) for cases when a deletion is to be performed. RC must know if a particular time set id is being used prior to deleting from the RLtime_set relation. The relations that reference time set ids populated in RLtime_set are: RLitnalnex, RLitnalrng, RLitnatgn and RLitnatrng.

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# TLWSR

## 1. Description

This relation contains the trunk and line work station per work station resources.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | TLWS |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 2 |

## 3. Field Layout

```
TLWSR       relid = 175   DBSTATIC   DBACC_CIND  DBPRAM    LP      TLWS
     cuthru1_dpt  DMPORT       (ushort)
     diode1_dpt   DMPORT       (ushort)
     cuthru2_dpt  DMPORT       (ushort)
     diode2_dpt   DMPORT       (ushort)
     devid        DMCHR        (char)
     number       DMUNS6       (ushort: 6)    <--- key
 (a) tm_phone     DMTM_PHONE   (enum: 2)
 (b) jack_ind     DMBOOL       (enum: 1)
     location     DMTEXT       (array [ 16 ] of char )
     carrid       DMCARRID     (array [ 4 ] of char )
     dc1          DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     dc2          DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     ac1          DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     ac2          DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     line         DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     mtb1         DMGCIRCUIT   (struct)
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
     mtb2         DMGCIRCUIT   (struct)
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
     dn           DMDN         (struct)    <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
            User Tuple Layout     TLWSR
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
```

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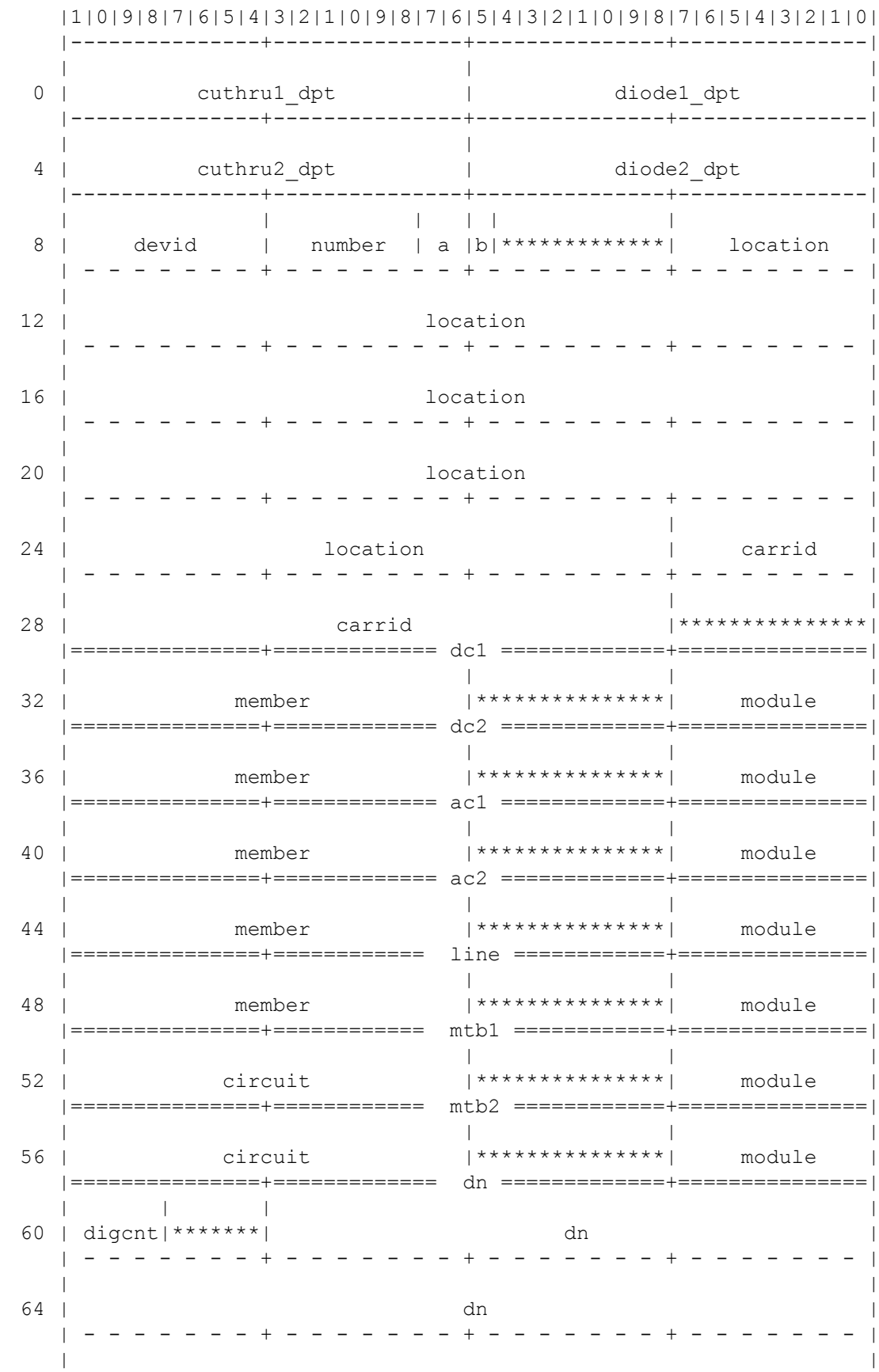


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```
 68 |                               dn                                |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                                 |
 72 |                               dn                                |
    |===============+===============+===============+===============|
       ( 76 bytes )

     cuthru1_dpt  DMPORT       (ushort)
     diode1_dpt   DMPORT       (ushort)
     cuthru2_dpt  DMPORT       (ushort)
     diode2_dpt   DMPORT       (ushort)
     devid        DMCHR        (char)
     number       DMUNS6       (ushort: 6)    <--- key
(a)  tm_phone     DMTM_PHONE   (enum: 2)
(b)  jack_ind     DMBOOL       (enum: 1)
     location     DMTEXT       (array [ 16 ] of char )
     carrid       DMCARRID     (array [ 4 ] of char )
     dc1          DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     dc2          DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     ac1          DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     ac2          DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     line         DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
     mtb1         DMGCIRCUIT   (struct)
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
     mtb2         DMGCIRCUIT   (struct)
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
     dn           DMCDN        (struct)    <--- compacted
         dig8        DMUNS4       (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
         dig9        DMUNS4       (ushort: 4)
         dig1        DMUNS4       (ushort: 4)
         dig10       DMUNS4       (ushort: 4)
         dig2        DMUNS4       (ushort: 4)
         dig11       DMUNS4       (ushort: 4)
         dig3        DMUNS4       (ushort: 4)
         dig12       DMUNS4       (ushort: 4)
         dig4        DMUNS4       (ushort: 4)
         dig13       DMUNS4       (ushort: 4)
         dig5        DMUNS4       (ushort: 4)
         dig14       DMUNS4       (ushort: 4)
         dig6        DMUNS4       (ushort: 4)
         dig15       DMUNS4       (ushort: 4)
```

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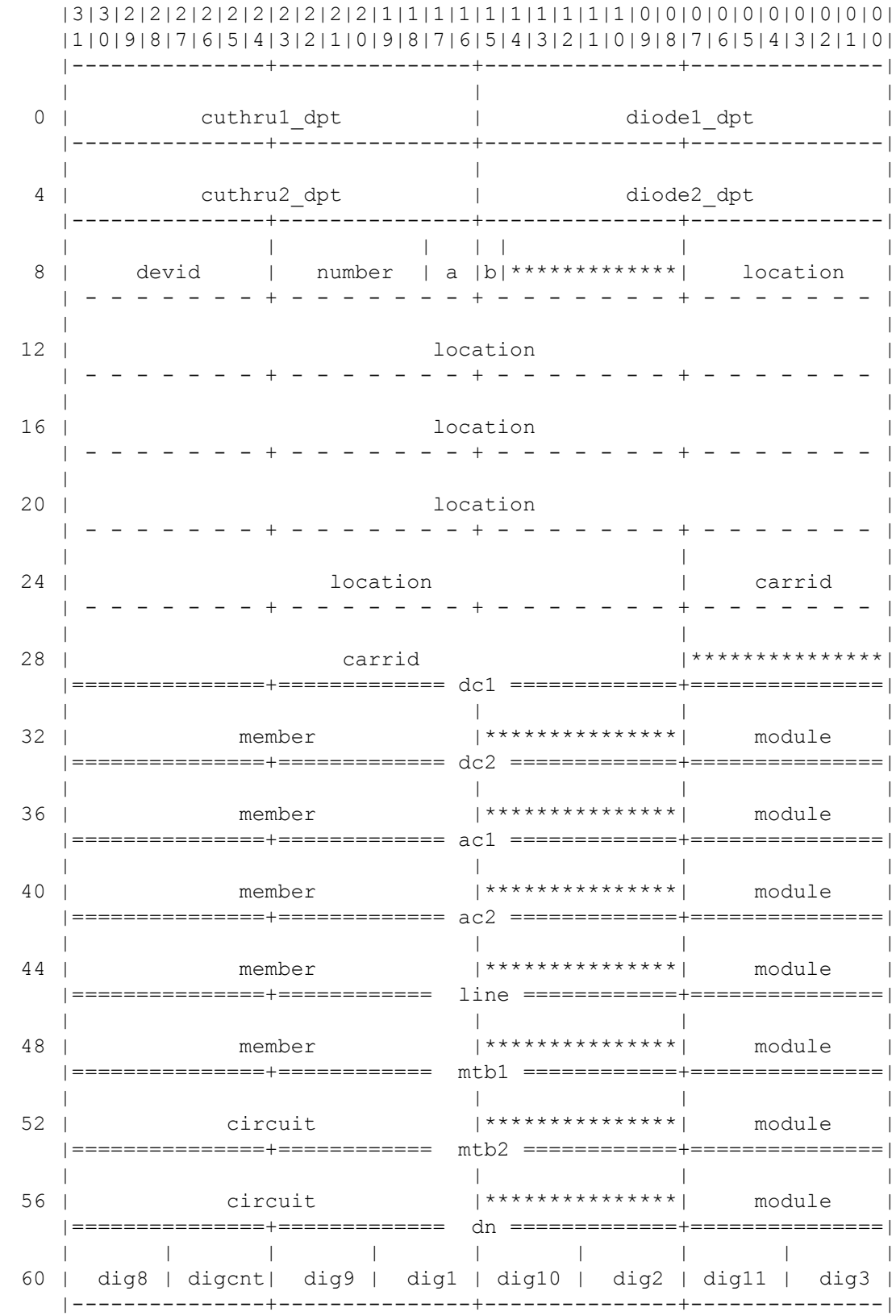
dig7 DMUNS4 (ushort: 4)

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```
   |       |       |       |       |       |       |       |       |
64 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
   |===============+===============+===============+===============|
   |                                                               |
68 |***************************************************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
72 |***************************************************************|
   |---------------+---------------+---------------+---------------|
     ( 76 bytes )

    cuthru1_dpt  DMPORT       (ushort)
    diode1_dpt   DMPORT       (ushort)
    cuthru2_dpt  DMPORT       (ushort)
    diode2_dpt   DMPORT       (ushort)
    devid        DMCHR        (char)
    number       DMUNS6       (ushort: 6)    <--- key
(a) tm_phone     DMTM_PHONE   (enum: 2)
(b) jack_ind     DMBOOL       (enum: 1)
    location     DMTEXT       (array [ 16 ] of char )
    carrid       DMCARRID     (array [ 4 ] of char )
    dc1          DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    dc2          DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    ac1          DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    ac2          DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    line         DMGPORT      (struct)
        member      DMPORT       (ushort)
        module      DMMODULE     (ushort: 8)
    mtb1         DMGCIRCUIT   (struct)
        circuit     DMCIRCUIT    (ushort)
        module      DMMODULE     (ushort: 8)
    mtb2         DMGCIRCUIT   (struct)
        circuit     DMCIRCUIT    (ushort)
        module      DMMODULE     (ushort: 8)
    dn           DMCDN        (struct)    <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
```

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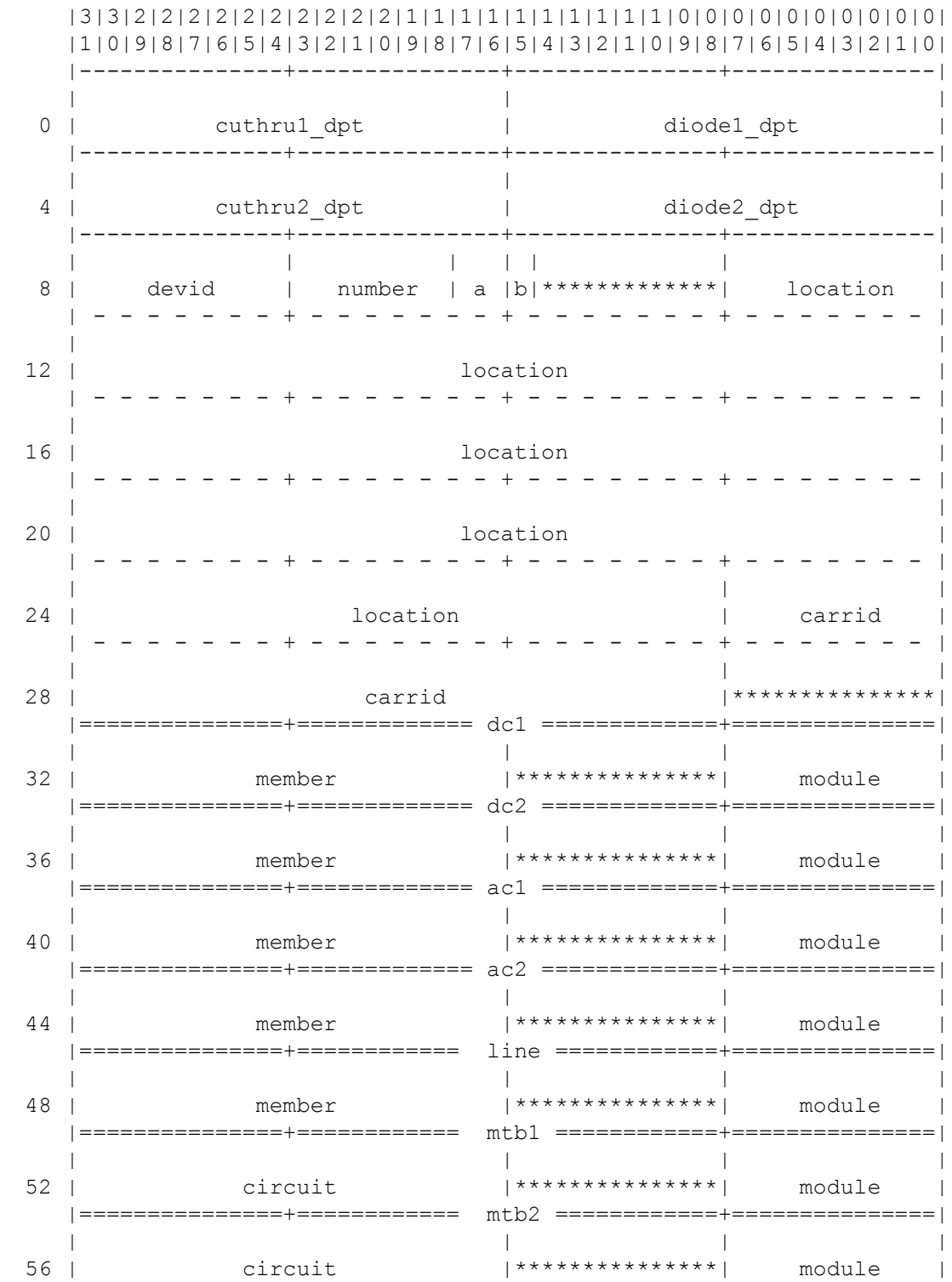
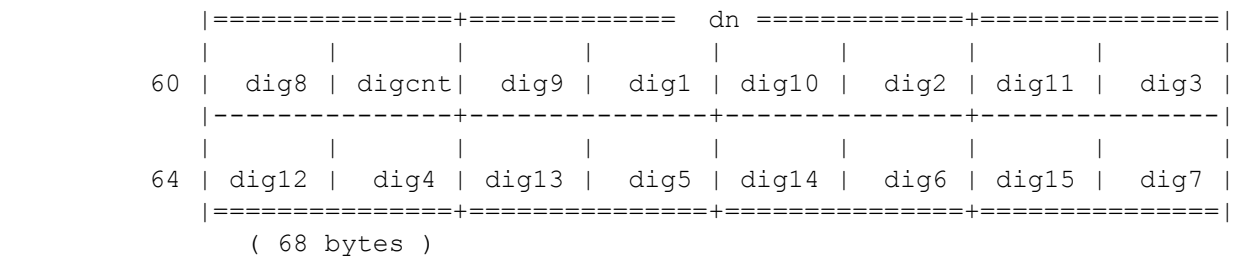
```
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
```

Stored Tuple Layout TLWSR






## 4. Population rules for RLtlwsr

### Relation Description

Trunk and line work station (TLWS) per work station resources
TLWS per work station resources.

**Attribute:**
number
**Fullname:**
TLWS number in American Standard Code for Information Interchange (ASCII) used by the user.
**Attribute Description:**
TLWSR relation (TLWSR) number in ASCII used by the user.
Each TLWSR is assigned a unique number in the range
1 to 32. The following assignments are recommended:

| devid | number* | comment |
|---|---|---|
| 'a' | 1 | MCC in office |

Remaining number (2 to 32) will be assigned to supplementary trunk and line work stations (STLWSs).
*number is the key to RLTLWSR.

**Attribute:**
devid
**Fullname:**
Device ID
**Attribute Description:**
Device number for the TLWS terminal.

**Attribute:**
location
**Fullname:**
Location
**Attribute Description:**
Location the TLWS is physically kept. This is a remark area that can be filled in with alpha-numerics. Suggested remarks would be 'LOCAL', 'SCC', 'RSM', name of the office, name of the user assigned to the TLWS. Initial value would be blank.

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**Attribute:**
jack_ind
**Fullname:**
Jack indicator
**Attribute Description:**
Indicates whether the TLWS has jacks.

**Attribute:**
dc[*]
**Fullname:**
Direct current (DC) jack
**Attribute Description:**
Port name of DC jack.

**Attribute:**
dc[*].member
**Fullname:**
Member
**Attribute Description:**
Port of DC jack. This is a logical test port name.
The logical test port is taken from relation FC_PORTTYP.
and it is found in attribute 'servclass' as an
enumeration of TM_DCJACK.

**Attribute:**
dc[*].module
**Fullname:**
Module
**Attribute Description:**
Switching module (SM) number of DC jack.

**Attribute:**
ac[*]
**Fullname:**
Alternating current (AC) jack
**Attribute Description:**
Port name of AC jack.

**Attribute:**
ac[*].member
**Fullname:**
Member
**Attribute Description:**
Port of AC jack. This should be a four-wire ear and mouth (E&M) trunk
found in CKTDATA relation with attribute 'type' and enumeration of
PCTC4EM and in FC_PORTTYP relation with attribute 'servclass' having
an enumeration of TM_ACJACK.

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**Attribute:**
ac[*].module
**Fullname:**
Module
**Attribute Description:**
SM number of AC jack.

**Attribute:**
line
**Fullname:**
Port name of call back line
**Attribute Description:**
Port name of call back line.

**Attribute:**
line.member
**Fullname:**
Member
**Attribute Description:**
If tm_phone equals TMP_GPORT, then member is the port name of talk and monitor (T&M) line. Port is in the FC_PORTTYP relation and attribute 'servclass' should be an enumeration of TM_CALLBK.
If tm_phone equals TMP_LTP, then member is the port name of T&M logical test port. Port is in the FC_PORTTYP relation and attribute 'servclass' is an enumeration of TM_CALLBK.

**Attribute:**
line.module
**Fullname:**
Module
**Attribute Description:**
If tm_phone equals TMP_GPORT, then module is the SM number of the T&M line.
If tm_phone equals TMP_LTP, then module is the SM number of the T&M logical test port.

**Attribute:**
tm_phone
**Fullname:**
Does the TLWS have local, remote or no phone.
**Attribute Description:**
Determines the type of phone populated for this relation. Valid types are:
TMP_NULL - no phone number was entered. This TLWS has no T&M phone associated with it.
TMP_GPORT - An office telephone number (TN) was entered. This is generally a line which terminates on this switch.
TMP_LTP - A remote TN was entered. This is generally a line

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which does not terminate on this switch. A logical test port must be populated for use in originating calls to the remote T&M phone associated with this TLWS.

**Attribute:**
dn
**Fullname:**
Directory number
**Attribute Description:**
Call back directory number.

**Attribute:**
dn.digcnt
**Fullname:**
Digit count
**Attribute Description:**
Total number of digits contained in DN.

**Attribute:**
dn.dn
**Fullname:**
Directory number (DN)
**Attribute Description:**
DN of the T&M phone.
LOCAL - Either assign the DN to an individual line or part of a multi-line hunt (MLHG) group. The DN should represent a port (or a group of ports for MLHG) that its service class be an enumeration of TM_CALLBK. Please refer to line.member subattribute. This local DN can be entered as a 7 or 10 digit DN, however, it is stored as a 10 digit DN. Assign to an individual if there is only one TLWS. Assign to an MLHG if there are more than one local TLWSs. This will allow incoming calls to terminate at an idle T&M phone if one of the T&M phones is in use. Note: MLHG is recommended, the T&M phones could also be assigned as individual lines.
REMOTE - The remote location will supply the DN of their T&M phone. A numbering plan area (NPA) can be included with the DN. This can be a 7, 8, 10, or 11 digit DN.

**Attribute:**
carrid
**Fullname:**
Carrier ID
**Attribute Description:**
Indicates the carrier through which a call to a remote TLWS will be routed if the DN is outside the local access and transport area (LATA). It must be a four-digit character string where each

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of the characters can be '0' through '9'. The carrier ID value must be an existing one in the RLfc_carr relation. The default is '\0'.

**Attribute:**
mtb1
**Fullname:**
Metallic test busname 1
**Attribute Description:**
The metallic test busname for DC jack 1.

**Attribute:**
mtb1.circuit
**Fullname:**
Circuit
**Attribute Description:**
Port name of metallic test bus (MTB) for DC jack 1. One of the unused MTBs from relation CKTDATA, attribute 'type' with enumeration of PCMSMTB should be picked. This is located in the metallic service unit (MSU) portion of CKTDATA relation.

**Attribute:**
mtb1.module
**Fullname:**
Module
**Attribute Description:**
SM number for metallic test bus of DC jack 1.

**Attribute:**
cuthru1_dpt
**Fullname:**
Distribute point for cut through relay DC jack 1
**Attribute Description:**
Distribute point for cut thru relay of DC jack 1.
This should be an unused distributor point
from service group 0.

**Attribute:**
diode1_dpt
**Fullname:**
Distribute point for diode DC jack 1
**Attribute Description:**
Distribute point for diode of DC jack 1. This is supplied as the MTB was supplied.

**Attribute:**
mtb2

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**Fullname:**
Metallic test bus 2
**Attribute Description:**
The metallic test bus name of DC jack 2.

**Attribute:**
mtb2.circuit
**Fullname:**
Circuit
**Attribute Description:**
Metallic test bus name for DC jack 2. Supplied the same as attribute 'mtb1.circuit' but name is taken from service group 1 (SG 1) instead of service group 0 unless this MSU is on a compact service unit (CSU). For a CSU, do not check for SG 1; the CSU does not have a SG 1.

**Attribute:**
mtb2.module
**Fullname:**
Module
**Attribute Description:**
SM number for metallic test bus of DC jack 2.

**Attribute:**
cuthru2_dpt
**Fullname:**
Distribute point for cut through relay DC jack 2
**Attribute Description:**
Distribute point for cut through relay of DC jack 2. Supplied as attribute 'cuthru1_dpt', but name taken from service group 1.

**Attribute:**
diode2_dpt
**Fullname:**
Distribute point for diode DC jack 2
**Attribute Description:**
Distribute point for diode for DC jack 2. Same as for attribute 'diode1_dpt', but taken from service group 1.

**Defines:**
"db/DMlocdig.h",
"db/DMnpanxx.h"

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# TM_ATTT

## 1. Description

This relation contains the automatic trunk test table for outgoing trunk tests.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 35 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | CIO |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 2048 |
| page level | 0 |

## 3. Field Layout

```
TM_ATTT     relid = 78    DBSTATIC   DBACC_HASH  DBPRAM    LP      CIO
     og_sxsdig   DMDN_BILL    (array [ 10 ] of char )
     og_ctx2dig  DMDN_BILL    (array [ 10 ] of char )
     og_ctx3dig  DMDN_BILL    (array [ 10 ] of char )
     og_109dig   DMDN_BILL    (array [ 10 ] of char )
     og_606dig   DMDN_BILL    (array [ 10 ] of char )
     atttn       DMSHORT      (short) <--- key
 (a) og_sxscnt   DMDIGCNT     (uchar: 4)
 (b) og_ctx2cnt  DMDIGCNT     (uchar: 4)
 (c) og_ctx3cnt  DMDIGCNT     (uchar: 4)
 (d) og_109cnt   DMDIGCNT     (uchar: 4)
 (e) og_606cnt   DMDIGCNT     (uchar: 4)
     tstcode     DMTCATTT     (enum: 4)
     og_100      DMDN         (struct) <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
     og_102      DMDN         (struct) <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
     og_syn      DMDN         (struct) <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
     og_nsyn     DMDN         (struct) <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
     og_105      DMDN         (struct) <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
     og_pb       DMDN         (struct) <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
     og_103      DMDN         (struct) <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
     og_104      DMDN         (struct) <--- compacted
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
```

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```
    og_inv      DMDN         (struct) <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
    og_ninv     DMDN         (struct) <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
    og_106      DMDN         (struct) <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
    og_catl     DMDN         (struct) <--- compacted
        digcnt      DMDIGCNT     (uchar: 4)
        dn          DMDIGSTRING  (array [ 15 ] of char )
           User Tuple Layout   TM_ATTT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                           og_sxsdig                           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 4 |                           og_sxsdig                           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
 8 |           og_sxsdig           |           og_ctx2dig          |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
12 |                           og_ctx2dig                          |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
16 |                           og_ctx2dig                          |
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |                           og_ctx3dig                          |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
24 |                           og_ctx3dig                          |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
28 |           og_ctx3dig          |           og_109dig           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
32 |                           og_109dig                           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
36 |                           og_109dig                           |
   |---------------+---------------+---------------+---------------|
   |                                                               |
40 |                           og_606dig                           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
44 |                           og_606dig                           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
48 |           og_606dig           |             atttn             |
```

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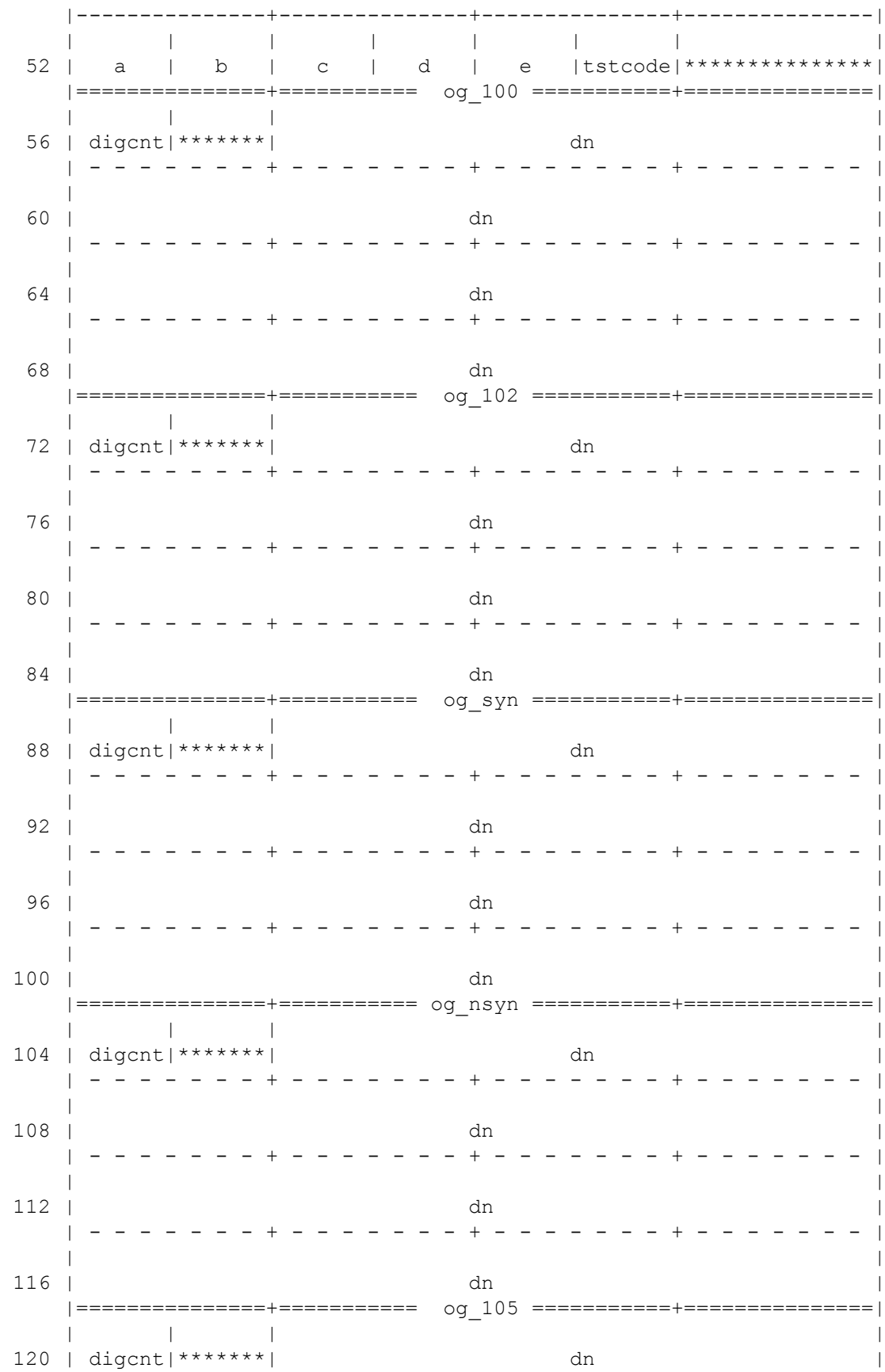
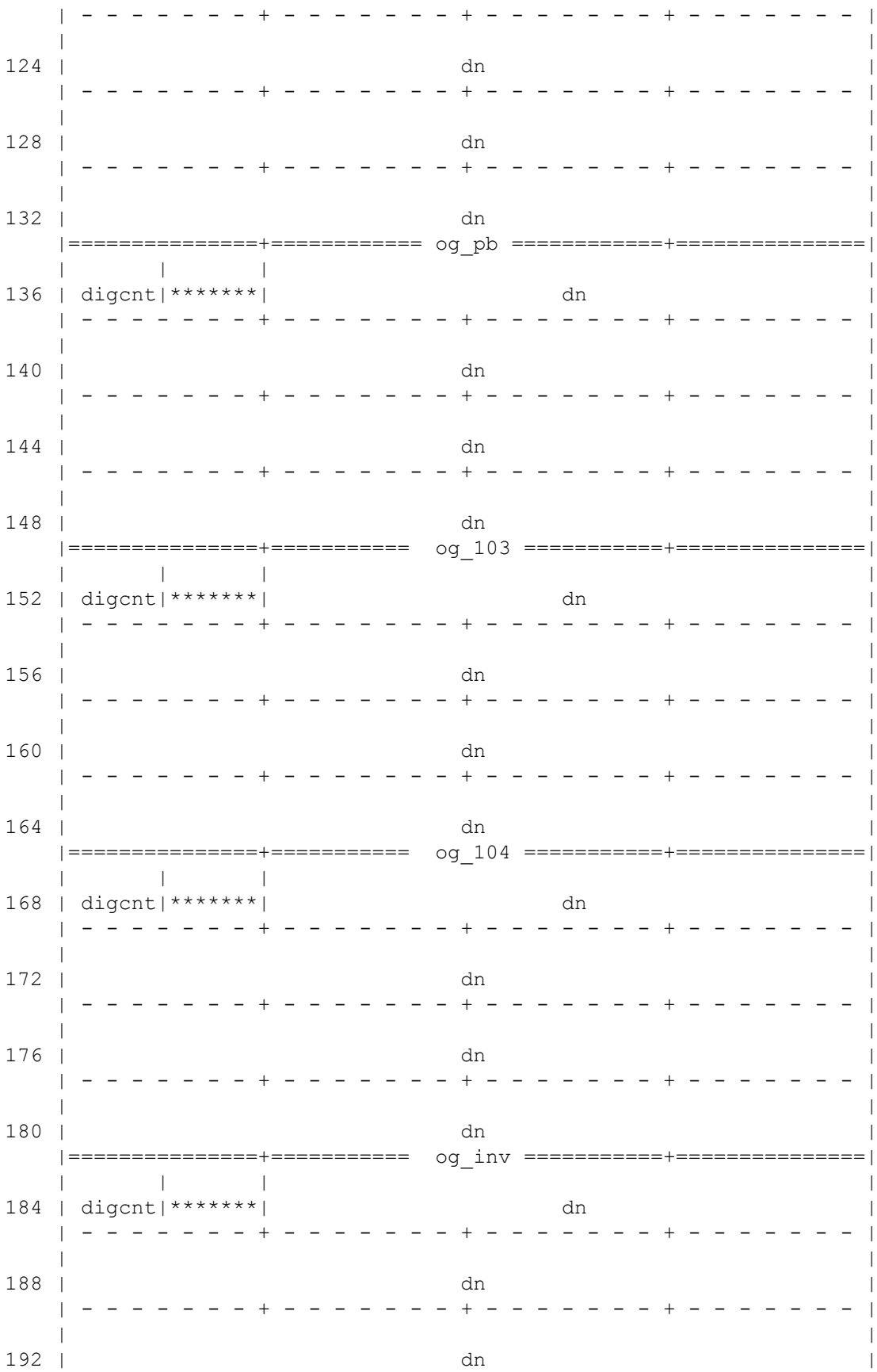
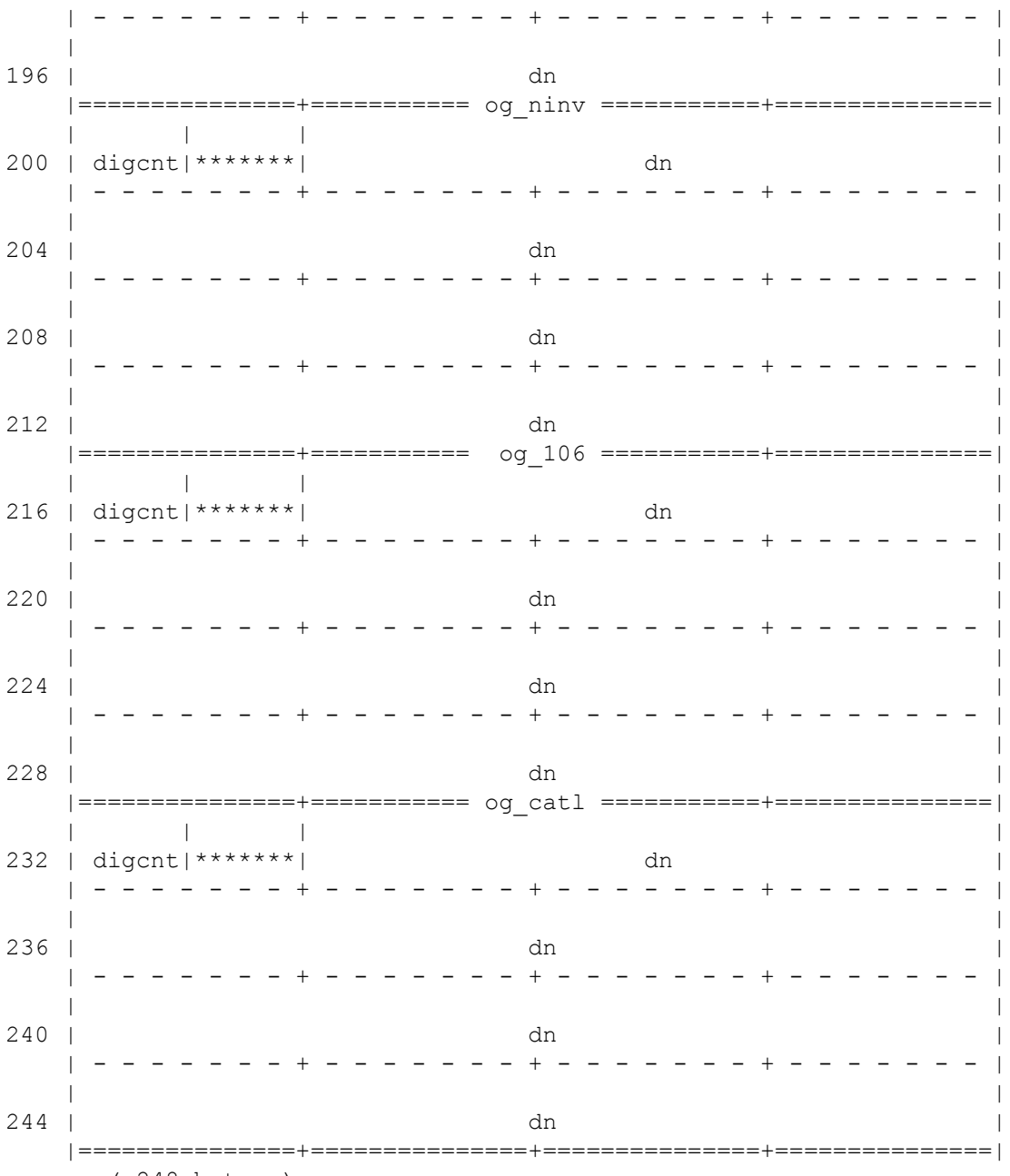

a
b
c
d
e
tstcode
**********
og_100
dn
digcnt
*******
og_102
og_syn
og_nsyn
og_105


124
dn
128
dn
132
dn
og_pb
digcnt
*******
dn
140
dn
144
dn
148
dn
og_103
digcnt
*******
dn
156
dn
160
dn
164
dn
og_104
digcnt
*******
dn
172
dn
176
dn
180
dn
og_inv
digcnt
*******
dn
188
dn
192
dn




( 248 bytes )

| | | | |
|---|---|---|---|
| | og_sxsdig | DMDN_BILL | (array [ 10 ] of char ) |
| | og_ctx2dig | DMDN_BILL | (array [ 10 ] of char ) |
| | og_ctx3dig | DMDN_BILL | (array [ 10 ] of char ) |
| | og_109dig | DMDN_BILL | (array [ 10 ] of char ) |
| | og_606dig | DMDN_BILL | (array [ 10 ] of char ) |
| | atttn | DMSHORT | (short) <--- key |
| (a) | og_sxscnt | DMDIGCNT | (uchar: 4) |
| (b) | og_ctx2cnt | DMDIGCNT | (uchar: 4) |
| (c) | og_ctx3cnt | DMDIGCNT | (uchar: 4) |
| (d) | og_109cnt | DMDIGCNT | (uchar: 4) |
| (e) | og_606cnt | DMDIGCNT | (uchar: 4) |
| | tstcode | DMTCATTT | (enum: 4) |
| | og_100 | DMCDN | (struct) <--- compacted |

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```
    dig8        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
    dig9        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
    dig11       DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig13       DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
og_102      DMCDN        (struct) <--- compacted
    dig8        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
    dig9        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
    dig11       DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig13       DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
og_syn      DMCDN        (struct) <--- compacted
    dig8        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
    dig9        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
    dig11       DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig13       DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
og_nsyn     DMCDN        (struct) <--- compacted
    dig8        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
    dig9        DMUNS4       (ushort: 4)
```

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```
    dig1        DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
    dig11       DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig13       DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
og_105      DMCDN        (struct) <--- compacted
    dig8        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
    dig9        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
    dig11       DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig13       DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
og_pb       DMCDN        (struct) <--- compacted
    dig8        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
    dig9        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
    dig11       DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig13       DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
og_103      DMCDN        (struct) <--- compacted
    dig8        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
    dig9        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
```

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```
    dig11       DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig13       DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
og_104      DMCDN        (struct) <--- compacted
    dig8        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
    dig9        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
    dig11       DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig13       DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
og_inv      DMCDN        (struct) <--- compacted
    dig8        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
    dig9        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
    dig11       DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig13       DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
og_ninv     DMCDN        (struct) <--- compacted
    dig8        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
    dig9        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
    dig11       DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
```

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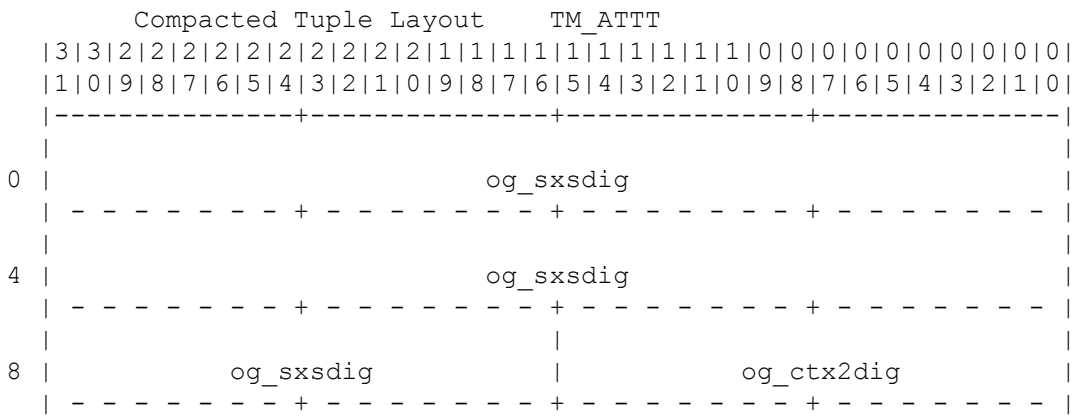
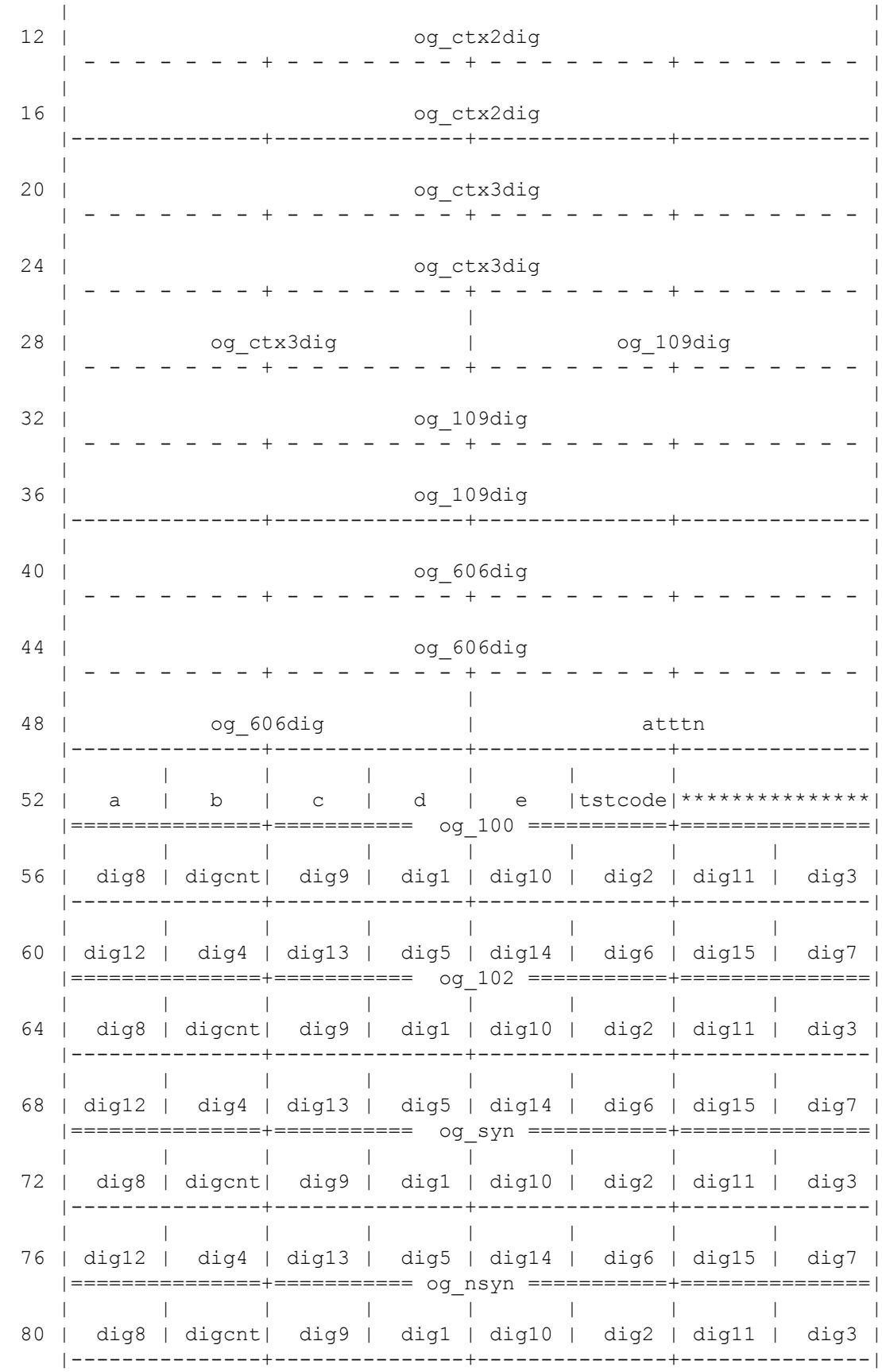
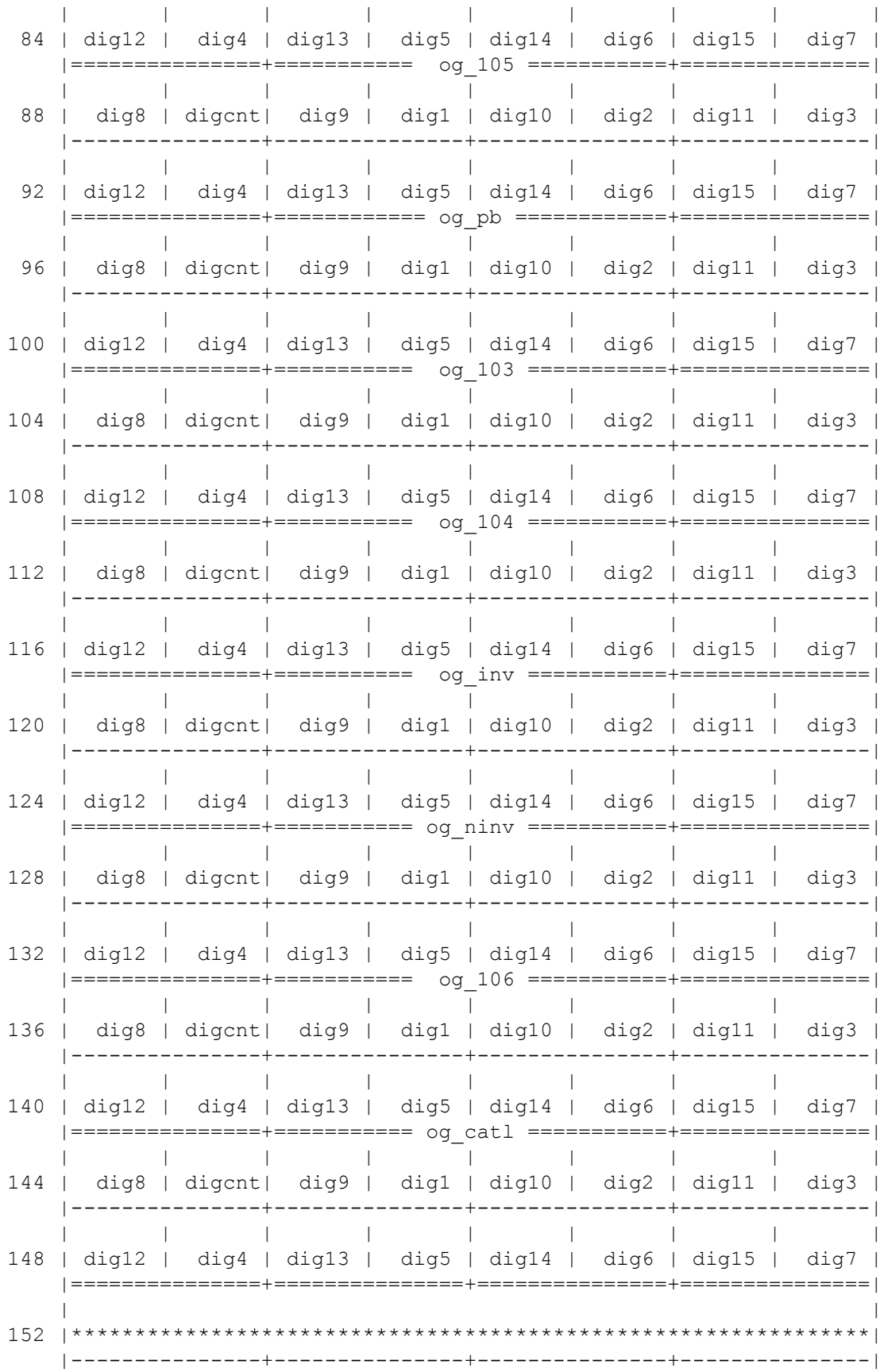
```
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    og_106      DMCDN        (struct) <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
    og_catl     DMCDN        (struct) <--- compacted
        dig8        DMUNS4       (ushort: 4)
        digcnt      DMDIGCNT     (uchar: 4)
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
```




og_ctx2dig
og_ctx2dig
og_ctx3dig
og_ctx3dig
og_ctx3dig
og_109dig
og_109dig
og_109dig
og_606dig
og_606dig
og_606dig
atttn
a
b
c
d
e
tstcode
og_100
dig8
digcnt
dig9
dig1
dig10
dig2
dig11
dig3
dig12
dig4
dig13
dig5
dig14
dig6
dig15
dig7
og_102
og_syn
og_nsyn

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```
    |                                                                |
156 |****************************************************************|
    |---------------+---------------+---------------+---------------|
                                    .
                                    .
                                    .
    |---------------+---------------+---------------+---------------|
    |                                                                |
240 |****************************************************************|
    |---------------+---------------+---------------+---------------|
    |                                                                |
244 |****************************************************************|
    |---------------+---------------+---------------+---------------|
      ( 248 bytes )
     og_sxsdig   DMDN_BILL    (array [ 10 ] of char )
     og_ctx2dig  DMDN_BILL    (array [ 10 ] of char )
     og_ctx3dig  DMDN_BILL    (array [ 10 ] of char )
     og_109dig   DMDN_BILL    (array [ 10 ] of char )
     og_606dig   DMDN_BILL    (array [ 10 ] of char )
     atttn       DMSHORT      (short) <--- key
 (a) og_sxscnt   DMDIGCNT     (uchar: 4)
 (b) og_ctx2cnt  DMDIGCNT     (uchar: 4)
 (c) og_ctx3cnt  DMDIGCNT     (uchar: 4)
 (d) og_109cnt   DMDIGCNT     (uchar: 4)
 (e) og_606cnt   DMDIGCNT     (uchar: 4)
     tstcode     DMTCATTT     (enum: 4)
     og_100      DMCDN        (struct) <--- compacted
         dig8        DMUNS4       (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
         dig9        DMUNS4       (ushort: 4)
         dig1        DMUNS4       (ushort: 4)
         dig10       DMUNS4       (ushort: 4)
         dig2        DMUNS4       (ushort: 4)
         dig11       DMUNS4       (ushort: 4)
         dig3        DMUNS4       (ushort: 4)
         dig12       DMUNS4       (ushort: 4)
         dig4        DMUNS4       (ushort: 4)
         dig13       DMUNS4       (ushort: 4)
         dig5        DMUNS4       (ushort: 4)
         dig14       DMUNS4       (ushort: 4)
         dig6        DMUNS4       (ushort: 4)
         dig15       DMUNS4       (ushort: 4)
         dig7        DMUNS4       (ushort: 4)
     og_102      DMCDN        (struct) <--- compacted
         dig8        DMUNS4       (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
         dig9        DMUNS4       (ushort: 4)
         dig1        DMUNS4       (ushort: 4)
         dig10       DMUNS4       (ushort: 4)
         dig2        DMUNS4       (ushort: 4)
         dig11       DMUNS4       (ushort: 4)
         dig3        DMUNS4       (ushort: 4)
         dig12       DMUNS4       (ushort: 4)
         dig4        DMUNS4       (ushort: 4)
```

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```
    dig13       DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
og_syn      DMCDN        (struct) <--- compacted
    dig8        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
    dig9        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
    dig11       DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig13       DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
og_nsyn     DMCDN        (struct) <--- compacted
    dig8        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
    dig9        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
    dig11       DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig13       DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
og_105      DMCDN        (struct) <--- compacted
    dig8        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
    dig9        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
    dig11       DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig13       DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
```

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```
    dig6        DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
og_pb       DMCDN        (struct) <--- compacted
    dig8        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
    dig9        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
    dig11       DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig13       DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
og_103      DMCDN        (struct) <--- compacted
    dig8        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
    dig9        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
    dig11       DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig13       DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
og_104      DMCDN        (struct) <--- compacted
    dig8        DMUNS4       (ushort: 4)
    digcnt      DMDIGCNT     (uchar: 4)
    dig9        DMUNS4       (ushort: 4)
    dig1        DMUNS4       (ushort: 4)
    dig10       DMUNS4       (ushort: 4)
    dig2        DMUNS4       (ushort: 4)
    dig11       DMUNS4       (ushort: 4)
    dig3        DMUNS4       (ushort: 4)
    dig12       DMUNS4       (ushort: 4)
    dig4        DMUNS4       (ushort: 4)
    dig13       DMUNS4       (ushort: 4)
    dig5        DMUNS4       (ushort: 4)
    dig14       DMUNS4       (ushort: 4)
    dig6        DMUNS4       (ushort: 4)
    dig15       DMUNS4       (ushort: 4)
    dig7        DMUNS4       (ushort: 4)
```

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```
og_inv      DMCDN         (struct) <--- compacted
    dig8        DMUNS4        (ushort: 4)
    digcnt      DMDIGCNT      (uchar: 4)
    dig9        DMUNS4        (ushort: 4)
    dig1        DMUNS4        (ushort: 4)
    dig10       DMUNS4        (ushort: 4)
    dig2        DMUNS4        (ushort: 4)
    dig11       DMUNS4        (ushort: 4)
    dig3        DMUNS4        (ushort: 4)
    dig12       DMUNS4        (ushort: 4)
    dig4        DMUNS4        (ushort: 4)
    dig13       DMUNS4        (ushort: 4)
    dig5        DMUNS4        (ushort: 4)
    dig14       DMUNS4        (ushort: 4)
    dig6        DMUNS4        (ushort: 4)
    dig15       DMUNS4        (ushort: 4)
    dig7        DMUNS4        (ushort: 4)
og_ninv     DMCDN         (struct) <--- compacted
    dig8        DMUNS4        (ushort: 4)
    digcnt      DMDIGCNT      (uchar: 4)
    dig9        DMUNS4        (ushort: 4)
    dig1        DMUNS4        (ushort: 4)
    dig10       DMUNS4        (ushort: 4)
    dig2        DMUNS4        (ushort: 4)
    dig11       DMUNS4        (ushort: 4)
    dig3        DMUNS4        (ushort: 4)
    dig12       DMUNS4        (ushort: 4)
    dig4        DMUNS4        (ushort: 4)
    dig13       DMUNS4        (ushort: 4)
    dig5        DMUNS4        (ushort: 4)
    dig14       DMUNS4        (ushort: 4)
    dig6        DMUNS4        (ushort: 4)
    dig15       DMUNS4        (ushort: 4)
    dig7        DMUNS4        (ushort: 4)
og_106      DMCDN         (struct) <--- compacted
    dig8        DMUNS4        (ushort: 4)
    digcnt      DMDIGCNT      (uchar: 4)
    dig9        DMUNS4        (ushort: 4)
    dig1        DMUNS4        (ushort: 4)
    dig10       DMUNS4        (ushort: 4)
    dig2        DMUNS4        (ushort: 4)
    dig11       DMUNS4        (ushort: 4)
    dig3        DMUNS4        (ushort: 4)
    dig12       DMUNS4        (ushort: 4)
    dig4        DMUNS4        (ushort: 4)
    dig13       DMUNS4        (ushort: 4)
    dig5        DMUNS4        (ushort: 4)
    dig14       DMUNS4        (ushort: 4)
    dig6        DMUNS4        (ushort: 4)
    dig15       DMUNS4        (ushort: 4)
    dig7        DMUNS4        (ushort: 4)
og_catl     DMCDN         (struct) <--- compacted
    dig8        DMUNS4        (ushort: 4)
    digcnt      DMDIGCNT      (uchar: 4)
```

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```
        dig9        DMUNS4       (ushort: 4)
        dig1        DMUNS4       (ushort: 4)
        dig10       DMUNS4       (ushort: 4)
        dig2        DMUNS4       (ushort: 4)
        dig11       DMUNS4       (ushort: 4)
        dig3        DMUNS4       (ushort: 4)
        dig12       DMUNS4       (ushort: 4)
        dig4        DMUNS4       (ushort: 4)
        dig13       DMUNS4       (ushort: 4)
        dig5        DMUNS4       (ushort: 4)
        dig14       DMUNS4       (ushort: 4)
        dig6        DMUNS4       (ushort: 4)
        dig15       DMUNS4       (ushort: 4)
        dig7        DMUNS4       (ushort: 4)
          Stored Tuple Layout      TM_ATTT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                           og_sxsdig                           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
 4 |                           og_sxsdig                           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
 8 |           og_sxsdig           |           og_ctx2dig          |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
12 |                           og_ctx2dig                          |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
16 |                           og_ctx2dig                          |
   |---------------+---------------+---------------+---------------|
   |                                                               |
20 |                           og_ctx3dig                          |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
24 |                           og_ctx3dig                          |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
28 |           og_ctx3dig          |           og_109dig           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
32 |                           og_109dig                           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
36 |                           og_109dig                           |
   |---------------+---------------+---------------+---------------|
   |                                                               |
40 |                           og_606dig                           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
44 |                           og_606dig                           |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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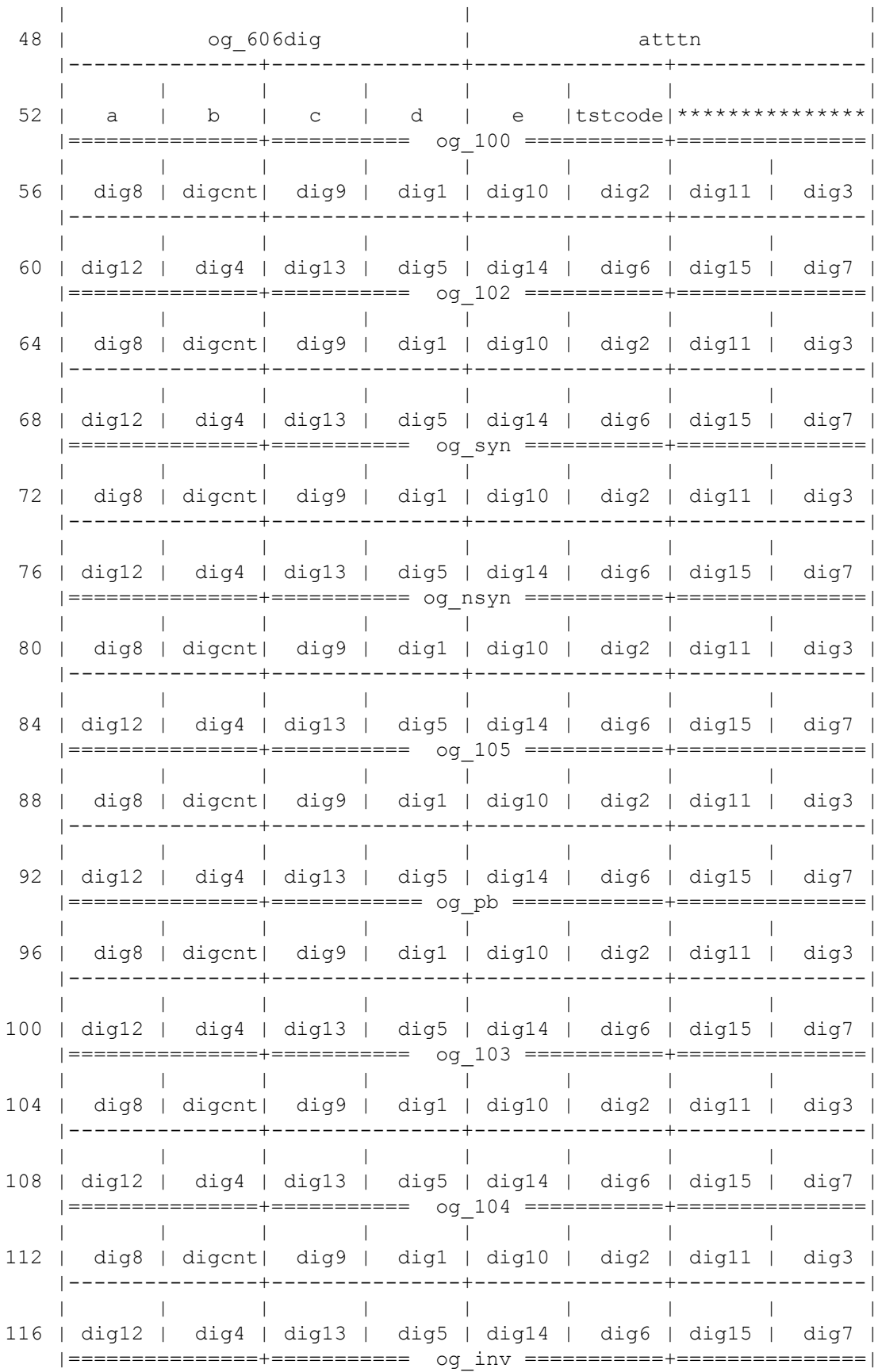


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```
    |       |       |       |       |       |       |       |       |
120 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
124 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
    |===============+=========== og_ninv ===========+===============|
    |       |       |       |       |       |       |       |       |
128 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
132 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
    |===============+===========  og_106 ===========+===============|
    |       |       |       |       |       |       |       |       |
136 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
140 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
    |===============+=========== og_catl ===========+===============|
    |       |       |       |       |       |       |       |       |
144 |  dig8 | digcnt|  dig9 |  dig1 | dig10 |  dig2 | dig11 |  dig3 |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
148 | dig12 |  dig4 | dig13 |  dig5 | dig14 |  dig6 | dig15 |  dig7 |
    |===============+===============+===============+===============|
      ( 152 bytes )
```

## 4. Population rules for RLtm_attt

### Relation Description

```
automatic trunk test table for outgoing trunk

Trunk Test information for Automatic Progression Testing (APT)
and TST:TRK.

This relation defines the Terminal Maintenance (TM)
Automatic Trunk Test Table (ATTT) for outgoing test calls.
The table is used in the Automatic Progression Testing (APT)
of trunks and as a default for the 'TYPE' and/or 'OPDN' parameters
on the TST:TRK command.  Each trunk group has an atttn
which is used as the index into this table.  APT and TST:TRK
use this value to determine what type of test to execute.
*
APT will only execute the test that is specified
by the attribute 'tstcode'.  TST:TRK will also use
'tstcode' if the parameter 'TYPE' is not specified on
the command line.
*
Once the test type is determined, the outpulsed digits
are filled in from the corresponding attribute.
*
Example:
       If the attribute 'tstcode' is TCOGINV,
       then the attribute 'og_inv' is used to get
         the number of digits to be outpulsed 'og_inv.digcnt'
```

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```
            and the actual digits to be outpulsed 'og_inv.dn'
        *
        When the TST:TRK parameter 'TYPE' is given, but the 'OPDN' is not,
        then the outpulsed digits (opdn) are looked up in the attribute
        corresponding to that test type (in the tuple that corresponds to
        the trunk groups atttn index number)."
```

**Attribute:**
atttn
**Fullname:**
index to be stored for trunk group in APTT
**Attribute Description:**
The attn is an index for every trunk group which provides entry into the automatic trunk test table for outgoing test calls. This table is used in automatic progression testing (APT) and for providing default 'TYPE' and/or 'OPDN' parameters for the TST:TRK command if those parameters are not specified on the command line.

**Attribute:**
og_100
**Fullname:**
outpulsed digits
**Attribute Description:**
If the TSTCODE attribute is determined to be TCOG100, and if the OPDN is not specified, then this attribute is used to determine the digits to be outpulsed through its 2 subattributes og_100.digcnt and og_100.dn[15].

**Attribute:**
og_100.digcnt
**Fullname:**
digit count
**Attribute Description:**
Once the test TYPE is determined, this subattribute is used to determine the number of digits to be outpulsed.

**Attribute:**
og_100.dn
**Fullname:**
digits to be outpulsed for 100 test
**Attribute Description:**
Once the number of digits to be outpulsed is determined, this subattribute is used to determine the actual digits that need to be outpulsed.

**Attribute:**
og_102

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**Fullname:**
outpulsed digits
**Attribute Description:**
If the TSTCODE attribute is determined to be TCOG102, and if the OPDN is not specified, then this attribute is used to determine the digits to be outpulsed through its 2 subattributes og_102.digcnt and og_102.dn[15].

**Attribute:**
og_102.digcnt
**Fullname:**
digit count
**Attribute Description:**
Once the test TYPE is determined, this subattribute is used to determine the number of digits to be outpulsed.

**Attribute:**
og_102.dn
**Fullname:**
digits to be outpulsed for 102 test
**Attribute Description:**
Once the number of digits to be outpulsed is determined, this subattribute is used to determine the actual digits that need to be outpulsed.

**Attribute:**
og_syn
**Fullname:**
digits to be outpulsed for syn test
**Attribute Description:**
If the TSTCODE attribute is determined to be TCOGSYN, and if the OPDN is not specified, then this attribute is used to determine the digits to be outpulsed through its 2 subattributes og_syn.digcnt and og_syn.dn[15].

**Attribute:**
og_syn.digcnt
**Fullname:**
digit count
**Attribute Description:**
Once the test TYPE is determined, this subattribute is used to determine the number of digits to be outpulsed.

**Attribute:**
og_syn.dn
**Fullname:**
digits outpulsed for syn test
**Attribute Description:**

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Once the number of digits to be outpulsed is determined, this subattribute is used to determine the actual digits that need to be outpulsed.

**Attribute:**
og_nsyn
**Fullname:**
digits to be outpulsed for nsyn test
**Attribute Description:**
If the TSTCODE attribute is determined to be TCOGNSYN, and if the OPDN is not specified, then this attribute is used to determine the digits to be outpulsed through its 2 subattributes og_nsyn.digcnt and og_nsyn.dn[15].

**Attribute:**
og_nsyn.digcnt
**Fullname:**
digit count
**Attribute Description:**
Once the test TYPE is determined, this subattribute is used to determine the number of digits to be outpulsed.

**Attribute:**
og_nsyn.dn
**Fullname:**
digits to be outpulsed for nsyn test
**Attribute Description:**
Once the number of digits to be outpulsed is determined, this subattribute is used to determine the actual digits that need to be outpulsed.

**Attribute:**
og_105
**Fullname:**
digits to be outpulsed for 105 test
**Attribute Description:**
If the TSTCODE attribute is determined to be TCOG105, and if[ the OPDN is not specified, then this attribute is used to determine the digits to be outpulsed through its 2 subattributes og_105.digcnt and og_105.dn[15].

**Attribute:**
og_105.digcnt
**Fullname:**
digit count
**Attribute Description:**
Once the test TYPE is determined, this subattribute is used to determine the number of digits to be outpulsed.

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**Attribute:**
og_105.dn
**Fullname:**
digits to be outpulsed for 105 test
**Attribute Description:**
Once the number of digits to be outpulsed is determined, this subattribute is used to determine the actual digits that need to be outpulsed.

**Attribute:**
og_pb
**Fullname:**
digits to be outpulsed for pb test
**Attribute Description:**
If the TSTCODE attribute is determined to be TCOGPB, and if the OPDN is not specified, then this attribute is used to determine the digits to be outpulsed through its 2 subattributes og_pb.digcnt and og_pb.dn[15].

**Attribute:**
og_pb.digcnt
**Fullname:**
digit count
**Attribute Description:**
Once the test TYPE is determined, this subattribute is used to determine the number of digits to be outpulsed.

**Attribute:**
og_pb.dn
**Fullname:**
digits to be outpulsed for pb test
**Attribute Description:**
Once the number of digits to be outpulsed is determined, this subattribute is used to determine the actual digits that need to be outpulsed.

**Attribute:**
og_103
**Fullname:**
digits to be outpulsed for 103 test
**Attribute Description:**
If the TSTCODE attribute is determined to be TCOG103, and if the OPDN is not specified, then this attribute is used to determine the digits to be outpulsed through its 2 subattributes og_103.digcnt and og_103.dn[15].

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**Attribute:**
og_103.digcnt
**Fullname:**
digit count
**Attribute Description:**
Once the test TYPE is determined, this subattribute is used to determine the number of digits to be outpulsed.

**Attribute:**
og_103.dn
**Fullname:**
digits to be outpulsed for 103 test
**Attribute Description:**
Once the number of digits to be outpulsed is determined, this subattribute is used to determine the actual digits that need to be outpulsed.

**Attribute:**
og_104
**Fullname:**
digits to be outpulsed for 104 test
**Attribute Description:**
If the TSTCODE attribute is determined to be TCOG104, and if the OPDN is not specified, then this attribute is used to determine the digits to be outpulsed through its 2 subattributes og_104.digcnt and og_104.dn[15].

**Attribute:**
og_104.digcnt
**Fullname:**
digit count
**Attribute Description:**
Once the test TYPE is determined, this subattribute is used to determine the number of digits to be outpulsed.

**Attribute:**
og_104.dn
**Fullname:**
digits to be outpulsed for 104 test
**Attribute Description:**
Once the number of digits to be outpulsed is determined, this subattribute is used to determine the actual digits that need to be outpulsed.

**Attribute:**
og_inv
**Fullname:**
digits to be outpulsed for inverted transmission tests

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**Attribute Description:**
If the TSTCODE attribute is determined to be TCOGINV, and if the OPDN is not specified, then this attribute is used to determine the digits to be outpulsed through its 2 subattributes og_inv.digcnt and og_inv.dn[15].

**Attribute:**
og_inv.digcnt
**Fullname:**
digit count
**Attribute Description:**
Once the test TYPE is determined, this subattribute is used to determine the number of digits to be outpulsed.

**Attribute:**
og_inv.dn
**Fullname:**
digits outpulsed for an ISTF non-inverting loopback transmission test d
**Attribute Description:**
This is a digital test that expects the far end to invert all the non-signaling bits (0->1, 1->0)

**Attribute:**
og_ninv
**Fullname:**
digits to be outpulsed for non-inverted transmission tests
**Attribute Description:**
If the TSTCODE attribute is determined to be TCOGNINV, and if the OPDN is not specified, then this attribute is used to determine the digits to be outpulsed through its 2 subattributes og_inv.digcnt and og_inv.dn[15].

**Attribute:**
og_ninv.digcnt
**Fullname:**
digit count
**Attribute Description:**
Once the test TYPE is determined, this subattribute is used to determine the number of digits to be outpulsed.

**Attribute:**
og_ninv.dn
**Fullname:**
digits outpulsed for an ISTF non-inverting loopback transmission test
**Attribute Description:**
This is a digital test call that expects the far end to return the non-signaling bits without alternation (0->0, 1->1)

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**Attribute:**
og_106
**Fullname:**
digits to be outpulsed for 106 test
**Attribute Description:**
If the TSTCODE attribute is determined to be TCOG106, and if the OPDN is not specified, then this attribute is used to determine the digits to be outpulsed through its 2 subattributes og_106.digcnt and og_106.dn[15].

**Attribute:**
og_106.digcnt
**Fullname:**
digit count
**Attribute Description:**
If Gldsnopt == DBNO then og_106.digcnt must = 0.

**Attribute:**
og_106.dn
**Fullname:**
digits outpulsed for 106 test
**Attribute Description:**
If Gldsnopt == DBNO then must be blank.

**Attribute:**
og_catl
**Fullname:**
digits to be outpulsed for catl test
**Attribute Description:**
If the TSTCODE attribute is determined to be TCOGCATL, and if the OPDN is not specified, then this attribute is used to determine the digits to be outpulsed through its 2 subattributes og_catl.digcnt and og_catl.dn[15].

**Attribute:**
og_catl.digcnt
**Fullname:**
digit count
**Attribute Description:**
not used by domestic

**Attribute:**
og_catl.dn
**Fullname:**
digits to be outpulsed for catl test
**Attribute Description:**

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if catl is defined this relation must be populated with at least two tuples:
one tuple for trunks having pulse signaling, define the digit string 11,1
one tuple for trunks having MFC signaling, define the digit string I-13,1
Not used by Domestic -- default to null.

**Attribute:**
og_sxsdig
**Fullname:**
digits to be outpulsed for step by step test call
**Attribute Description:**
Once the number of digits to be outpulsed is determined, this subattribute is used to determine the actual digits that need to be outpulsed.

**Attribute:**
og_sxscnt
**Fullname:**
digti count
**Attribute Description:**
Once the test TYPE is determined, this subattribute is used to determine the number of digits to be outpulsed.

**Attribute:**
og_ctx2dig
**Fullname:**
digits to be outpulsed for Phase II Centrex test call
**Attribute Description:**
Once the number of digits to be outpulsed is determined, this subattribute is used to determine the actual digits that need to be outpulsed.

**Attribute:**
og_ctx2cnt
**Fullname:**
count of digits to be outpulsed for Phase II Centrex test call
**Attribute Description:**
Once the test TYPE is determined, this subattribute is used to determine the number of digits to be outpulsed.

**Attribute:**
og_ctx3dig
**Fullname:**
digits to be outpulsed for Phase III Centrex test call
**Attribute Description:**
Once the number of digits to be outpulsed is determined, this

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subattribute is used to determine the actual digits that need to be outpulsed.

**Attribute:**
og_ctx3cnt
**Fullname:**
count of digits to be outpulsed for Phase III Centrex test call
**Attribute Description:**
Once the test TYPE is determined, this subattribute is used to determine the number of digits to be outpulsed.

**Attribute:**
og_109dig
**Fullname:**
digits to be outpulsed for an RMS-D3 109 test call
**Attribute Description:**
Once the number of digits to be outpulsed is determined, this subattribute is used to determine the actual digits that need to be outpulsed.

**Attribute:**
og_109cnt
**Fullname:**
count of digits to be outpulsed for an RMS-D3 109 test call
**Attribute Description:**
Once the test TYPE is determined, this subattribute is used to determine the number of digits to be outpulsed.

**Attribute:**
og_606dig
**Fullname:**
digits to be outpulsed for an RMS-D3 606 test call
**Attribute Description:**
Once the number of digits to be outpulsed is determined, this subattribute is used to determine the actual digits that need to be outpulsed.

**Attribute:**
og_606cnt
**Fullname:**
count of digits to be outpulsed for an RMS-D3 606 test call
**Attribute Description:**
Once the test TYPE is determined, this subattribute is used to determine the number of digits to be outpulsed.

**Attribute:**
tstcode

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**Fullname:**

default terminal maintenance test code

**Attribute Description:**

tstcode can take on any value shown in its corresponding base domain DMtcattt
A value of TCOGNULL is possible and would be appropriate for a trunk group where the service of automatic look-up of test line numbers is desired, but automatic progression testing is handled at the far end.
When tstcode has a value other than TCOGNULL, then a corresponding attribute in this relation must be populated as shown in the following diragram. Note that TCOGCONT does not have a corresponding attribute.

| tstcode | attribute which must be populated |
|---|---|
| TCOGNULL | N/A |
| TCOGSYN | og_syn.digcnt<br>.dn |
| TCOGNSYN | og_nsyn.digcnt<br>.dn |
| TCOGPB | og_pb.digcnt<br>.dn |
| TCOGCONT | N/A |
| TCOGCATL | export use only |
| TCOGINV | og_inv.digcnt<br>.dn |
| TCOGNINV | og_ninv.digcnt<br>.dn |
| TCOGSXS | og_sxscnt<br>og_sxsdig |
| TCOGCTX2 | og_ctx2cnt<br>og_ctx2dig |
| TCOGCTX3 | og_ctx3cnt<br>og_ctx3dig |
| TCOG103 | og_103.digcnt<br>.dn |
| TCOG100 | og_100.digcnt<br>.dn |
| TCOG102 | og_102.digcnt<br>.dn |
| TCOG102LB | N/A |
| TCOGSHCT | N/A |
| TCOG104 | og_104.digcnt<br>.dn |
| TCOG105 | og_105.digcnt<br>.dn |
| TCOG106 | og_106.digcnt<br>.dn |
| TCOG109 | og_109dig<br>og_109cnt |
| TCOG606 | og_606dig<br>og_606cnt |

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```
*
                  The value of tstcode, and the corresponding
                  attribute, if any, that determines the digit string
                  to be outpulsed, has no relationship to how many
                  other attributes in this tuple may be populated.
                  tstcode is used for automatically run operational
                  test calls and when TYPE is not specified in a
                  TST:TRK command line.
*
The remaining description applies to non Autoplex(R) trunks
( RT_TRKG.dcs_trk = DBNO ).  Autoplex(R) specific rules will
be expressed only in the check section.
For trunks groups that specify a value
of atttn in RLrt_trkg.atttn then the
following rule applies:
                      if RLrt_trkg out_sigtype ==  DBCCIS6 or
                                                   DBISUP7 or
                              DBIUP7
                           (Common Channel Signaling CCS Trunks)
   then
       tstcode must be        TCOGNULL or
                              TCOGCONT or
                              TCOGPB
*
                      if RLrt_trkg out_sigtype not DBCCIS6 or
                                                   DBISUP7 or
                                                   DBTUP7
                           (non CCS trunks)
                      then
                            tstcode must not be   TCOGCONT
*
   if RLfc_porttyp servclass == FCEDSL or FCEDSLHM
       (FCEDSLHM is for EDSL trunks with hotel/motel to TSPS service
        and FCEDSL is for all other EDSL trunks)
   then
       tstcode must be        TCOGINV or
                              TCOGNINV
   (Both RLFC_PORTTYP and RLRCTGRPRK relations have servclass
    in them but RLRCTGRPRK will be used in the CHECK section
    as it is simpler to use it with the 'trunk group' as the
    key. RLFC_PORTTYP has 'port name' as the key so RLTRUNK_GROUP
    relation would have to be read to convert trunk group to
    port name to read RLFC_PORTTYP).
*
   if RLfc_porttyp servclass == OA_IFOPER
       (OSPS PRI outgoing B-channel trunks)
   then
       tstcode must be        TCOGINV or
                              TCOGNINV
```

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# TM_BLRS

## 1. Description

This relation contains the parameters necessary to determine the type of CCS group messages that a far end exchange expects for SS7 TUP National and International protocols. This relation is populated for DBTUP7, DBTUP7I, and DBTUP7BT protocols only. Additional protocols may use this relation, however the maximum tuple may need to be increased.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 1024 |
| expected number of tuples | 1 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LRFR |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
TM_BLRS     relid = 2527  DBSTATIC   DBACC_HASH  DBPRAM    LRFR    NULL
     dpc          DMPT_CODE     (ulong: 24)    <--- key
     sigtype      DMDIGSIG      (enum: 5)    <--- key
  (a) gbm         DMBOOL        (enum: 1)
  (b) grm         DMBOOL        (enum: 1)
  (c) mstates     DMBOOL        (enum: 1)
     opc          DMPT_CODE     (ulong: 24)    <--- key
         User, Compacted and Stored Tuple Layout    TM_BLRS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |         | | | |
  0 |                      dpc                      | sigtype |a|b|c|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  4 |                      opc                      |***************|
    |---------------+---------------+---------------+---------------|
                           ( 8 bytes )
```

## 4. Population rules for RLtm_blrs

**Relation Description**

```
Terminal Maintenance CCS Group Blocking and Group Reset parameters
This relation contains the parameters necessary to determine the
type of CCS group messages that a far end exchange expects for
SS7 TUP National and International protocols. This relation is
populated for DBTUP7, DBTUP7I, DBBSSAP, DBTUP7BT, DBNLISUP7,
DBISUP7N, and DBISUP7I protocols only.  Additional protocols may
use this relation, however the maximum tuple size may need to be
increased.
```

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**Attribute:**
dpc
**Fullname:**
Destination Point Code
**Attribute Description:**
The DPC indicates the signaling point
for the far end office. See RLlab7prt.

**Attribute:**
sigtype
**Fullname:**
Signaling Type
**Attribute Description:**
The signaling type (protocol) of the trunks associated with
the OPC/DPC pair. (that is, DBTUP7, DBTUP7I, DBTUP7BT, DBNLISUP7,
DBBSSAP, DBISUP7N, and DBISUP7I from DMdigsig domain).

**Attribute:**
opc
**Fullname:**
Origination Point Code
**Attribute Description:**
The OPC indicates the signaling point which is assigned to this
office. See RLlab7prt.

**Attribute:**
mstates
**Fullname:**
Multiple Blocking States
**Attribute Description:**
Used to indicate if the far end exchange can handle multiple
remote blocking states. If the far end exchange (DPC) can handle
multiple blocking states for the specified signaling type, then
this attribute should be set to DBYES, otherwise it is set to
DBNO.
This attribute is not used when the signaling type is DBTUP7BT.
This attribute is always set to DBNO when the signaling type is
DBBSSAP.

**Attribute:**
grm
**Fullname:**
Group Reset Messages
**Attribute Description:**
Used to indicate if the far end exchange accepts CCS Group Reset
messages. If the far end exchange (DPC) accepts CCS group reset
messages for the specified signaling type, then this attribute
should be set to DBYES, otherwise it is set to DBNO.
This attribute is always set to DBNO when the signaling type is

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DBBSSAP.

**Attribute:**

gbm

**Fullname:**

Group Blocking Messages

**Attribute Description:**

Used to indicate if the far end exchange accepts CCS group blocking messages. If the far end exchange (DPC) accepts CCS group blocking messages for the specified signaling type, then this attribute should be set to DBYES, otherwise it is set to DBNO.

This attribute is always set to DBNO when the signaling type is DBBSSAP.

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# TM_DTRT

## 1. Description

Digital test parameter values and result threshold.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 300 |
| expected number of tuples | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| relation type | DBSTATIC |
| application type | CGA |
| trigger function | TMtm_dtrt |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
TM_DTRT     relid = 2079  DBSTATIC   DBACC_HASH  DBPRAM    LP      CGA
     atttn       DMUSHORT     (ushort)    <--- key
     duration    DMUSHORT     (ushort)
     blksize     DMUSHORT     (ushort)
     acc_ber     DMUNS8       (ushort: 8)
         User, Compacted and Stored Tuple Layout    TM_DTRT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |              atttn             |            duration           |
    |---------------+---------------+---------------+---------------|
    |                                |               |               |
  4 |            blksize             |    acc_ber    |***************|
    |---------------+---------------+---------------+---------------|
                               ( 8 bytes )
```

## 4. Population rules for RLtm_dtrt

### Relation Description

Terminal maintenance digital test parameter values
and result threshold
This relation will store the parameter values of duration and
block size for digital tests and thresholds against which the
digital test results will be measured to determine
the pass/marginal/fail criteria for the tests.

**Attribute:**

atttn

**Fullname:**

Automatic trunk test table number

**Attribute Description:**

The key to the relation. This allows the test result

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thresholds based on trunk group numbers.

**Attribute:**
duration
**Fullname:**
Duration
**Attribute Description:**
Total duration of the test in seconds.

**Attribute:**
blksize
**Fullname:**
Block size
**Attribute Description:**
Block size of the digital bit streams used in the test.

**Attribute:**
acc_ber
**Fullname:**
Acceptable bit error ratio
**Attribute Description:**
Acceptable bit error ratio for the digital test bit stream.
The range is 0 to 7.
0 indicates no errors.
1 indicates 1 error in 10 bits.
2 indicates 1 error in 100 bits.
3 indicates 1 error in 1000 bits.
4 indicates 1 error in 10000 bits. And so on.
The minimum duration for acc_ber values 1 through 4
is 1 second.

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# TM_NRLTH

## 1. Description

Noise or return loss thresholds for transmission tests.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 300 |
| expected number of tuples | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| relation type | DBSTATIC |
| application type | CGA |
| trigger function | TMtm_nrlth |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
TM_NRLTH    relid = 2080  DBSTATIC   DBACC_HASH  DBPRAM    LP      CGA
     atttn       DMUSHORT     (ushort)    <--- key
     al_min      DMSSHORT     (short)
     ial_min     DMSSHORT     (short)
 (a) testtype    DMTCATTT     (enum: 4)    <--- key
     nrltype     DMNRLTYPE    (enum: 4)    <--- key
         User, Compacted and Stored Tuple Layout   TM_NRLTH
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             atttn             |             al_min            |
    |---------------+---------------+---------------+---------------|
    |                               |       |       |               |
  4 |            ial_min            |   a   |nrltype|***************|
    |---------------+---------------+---------------+---------------|
                                ( 8 bytes )
```

## 4. Population rules for RLtm_nrlth

### Relation Description

Terminal Maintenance Noise or Return Loss Thresholds
This relation will store the noise or return loss thresholds for 105, and 102LB test calls. This will be used to define the pass/marginal/fail status for the test calls.

**Attribute:**

atttn

**Fullname:**

Automatic Trunk Test Table Number

**Attribute Description:**

The atttn attribute is one of the keys to this relation. It allows the definition of noise or return loss based on a trunk group basis.

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**Attribute:**
testtype
**Fullname:**
Test type
**Attribute Description:**
The testtype attribute is one of the keys to the relation. It defines the type of test the noise or return loss thresholds are defined for.

**Attribute:**
nrltype
**Fullname:**
Noise or Return Loss type
**Attribute Description:**
This is one of the keys to the relation. "nrltype" defines the type of noise or return loss the threshold is defined for.

**Attribute:**
al_min
**Fullname:**
Minimum acceptable limit
**Attribute Description:**
This is the acceptable limit threshold for the noise or return loss.
The unit type of this attribute varies depending on "nrltype". For "nrltype" of TMERL, TMSRL, TMSHI the unit is dB. For "nrltype" of TMN, TMRN and TMNT the unit is dBrnC.

**Attribute:**
ial_min
**Fullname:**
Minimum immediate action limit
**Attribute Description:**
This value defines the "immediate action limit" above which the test will be deemed failed.
The unit type of this attribute varies depending on "nrltype". For "nrltype" of TMERL, TMSRL, TMSHI the unit is dB. For "nrltype" of TMN, TMRN and TMNT the unit is dBrnC.

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# TM_TMTH

## 1. Description

Tone measurement thresholds for transmission tests

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 300 |
| expected number of tuples | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| relation type | DBSTATIC |
| application type | CGA |
| trigger function | TMtm_tmth |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
TM_TMTH     relid = 2081  DBSTATIC   DBACC_HASH  DBPRAM    LP      CGA
     atttn       DMUSHORT     (ushort)    <--- key
     al_min      DMSSHORT     (short)
     ial_min     DMSSHORT     (short)
     al_max      DMSSHORT     (short)
     ial_max     DMSSHORT     (short)
     pos_duna    DMSSHORT     (short)
     neg_duna    DMSSHORT     (short)
     pos_dmar    DMSSHORT     (short)
     neg_dmar    DMSSHORT     (short)
 (a) testtype    DMTCATTT     (enum: 4)    <--- key
 (b) tonetype    DMTONETYPE   (enum: 3)    <--- key
         User, Compacted and Stored Tuple Layout    TM_TMTH
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              atttn            |              al_min           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             ial_min           |              al_max           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |             ial_max           |             pos_duna          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |             neg_duna          |             pos_dmar          |
    |---------------+---------------+---------------+---------------|
    |                               |       |       |               |
 16 |             neg_dmar          |   a   |   b   |***************|
    |---------------+---------------+---------------+---------------|
                               ( 20 bytes )
```

## 4. Population rules for RLtm_tmth

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**Relation Description**

Terminal Maintenance Tone Measurement Threshold
This relation defines the tone measurement thresholds for 105 and 102LB test calls. These threshold values define the pass/marginal/fail criteria for the test calls.

**Attribute:**
atttn
**Fullname:**
Automatic Trunk Test Table Number.
**Attribute Description:**
The atttn attribute is one of the keys to the relation. It allows the definition of tone measurement thresholds on a trunk group basis.

**Attribute:**
testtype
**Fullname:**
Test type.
**Attribute Description:**
The testtype attribute is one of the keys to the relation. It allows the identification of the test for which the tone measurement thresholds have been defined.

**Attribute:**
tonetype
**Fullname:**
Tone type.
**Attribute Description:**
The tonetype attribute is one of the keys to the relation. It allows the identification of the tone for which the measurement thresholds have been defined.

**Attribute:**
al_min
**Fullname:**
Minimum acceptance Limit.
**Attribute Description:**
The value of minimum acceptance limit marks the lower bound of the range of tone level to be deemed "passed".
This attribute has a range of -48 to +3 dB in increments of 1 dB.

**Attribute:**
ial_min
**Fullname:**
Minimum immediate action limit.
**Attribute Description:**

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The value of minimum immediate action limit marks the lower bound where all tone levels lower than this value will fail. Values between the minimum acceptence limit and immediate action limit are considered marginal.
This attribute has a range of -48 to +3 dB in increments of 1 dB.

**Attribute:**
al_max
**Fullname:**
Maximum acceptance Limit.
**Attribute Description:**
The value of maximum acceptance limit marks the upper bound of the range of tone level to be deemed "passed".
This attribute has a range of -48 to +3 dB in increments of 1 dB.

**Attribute:**
ial_max
**Fullname:**
Maximum immediate action limit.
**Attribute Description:**
The value of maximum immediate action limit marks the upper bound where all tone levels higher than this value will fail. Values between the minimum acceptence limit and immediate action limit are considered marginal.
This attribute has a range of -48 to +3 dB in increments of 1 dB.

**Attribute:**
pos_duna
**Fullname:**
Positive deviation, unacceptable
**Attribute Description:**
The positive deviation allowed for the tone detected in the unacceptable range.
This attribute has a range of 0 to 9 dB in increments of 1 dB.

**Attribute:**
neg_duna
**Fullname:**
Negative deviation, unacceptable
**Attribute Description:**
The negative deviation allowed for the tone detected in the unacceptable range.
This attribute has a range of 0 to 9 dB in increments of 1 dB.

**Attribute:**

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pos_dmar

**Fullname:**

Positive deviation, marginal

**Attribute Description:**

The positive deviation allowed for the tone detected in the marginal range.
This attribute has a range of 0 to 9 dB in increments of 1 dB.

**Attribute:**

neg_dmar

**Fullname:**

Negative deviation, marginal

**Attribute Description:**

The negative deviation allowed for the tone detected in the marginal range.
This attribute has a range of 0 to 9 dB in increments of 1 dB.

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# TM_WS101

## 1. Description

This relation contains all of the Trunk Work Stations (TWSs) that are assigned for terminating Incoming 101 Test Line calls at its Talk and Monitor phone. The 101 Test Line (101TL) call can be directed to one of the following TWSs:

```
In the No. 5ESS(R)-2000 switch office:
     1. Master Control Center/Trunk and Line Work   Station (MCC/TLWS)
     2. Supplementary Trunk and Line Work Station(STLWS).
In a remote location (thatis, Switching Control Center(SCC)):
     3. Remote MCC/TLWS
     4. Central Trunk Test Unit (CTTU).
```

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 33 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | 101TL |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |

## 3. Field Layout

```
TM_WS101    relid = 287   DBSTATIC   DBACC_CIND  DBPRAM    LP      101TL
     number      DMUNS6       (ushort: 6) <--- key
 (a) type_tws    DMTYPETWS    (enum: 2)
         User and Compacted Tuple Layout   TM_WS101
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |           |   |                                               |
 0  |   number  | a |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )

    number      DMUNS6       (ushort: 6) <--- key
 (a) type_tws    DMTYPETWS    (enum: 2)
          Stored Tuple Layout     TM_WS101
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |           |   |                                               |
 0  |   number  | a |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population rules for RLtm_ws101

### Relation Description

```
Terminating Trunk Work Stations 101

Contains all of the Trunk Work Stations (TWSs) that
```

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are assigned for Terminating Incoming 101 Test Line
calls at its Talk and Monitor phone.

The 101 Test Line (101TL) call can be directed to one
of the following TWSs:
    In the No. 5ESS(R)-2000 switch office:
       1. Master Control Center/Trunk and Line Work Station
          (MCC/TLWS)
       2. Supplementary Trunk and Line Work Station (STLWS)
    In a remote location (that is, Switching Control Center (SCC)):
       3. Remote MCC/TLWS
       4. Central Trunk Test Unit (CTTU).

Supporting Documentation:
DS5R 5.04.03.12, 101 Test Line Requirements
DS5D 5.04.03.12, 101 Test Line Design

General Description:
---
This relation is used in determining which Talk and Monitor
phone to connect to when the general purpose 101 test call
is invoked. Therefore only TLWS's which have a Talk and
Monitor phone assigned to them should have tuples in TM_WS101.
(that is, RLtlwsr.tm_phone != TMP_NULL)
When the general purpose test call is made, the global parameter
Gltm_rt101 is read to determine which type of Talk and Monitor
to attempt to connect to first (Gltm_rt101.tws_1st). Then
the position busy table (indexed by TLWS number) is searched
for an idle position that matches the type in Gltm_rt101.
This is when RLtm_ws101.type is used because it has the same
key as the position busy table. If there is no idle position
of that type, the next attribute in Gltm_rt101 is used to
match on (tws_2nd) and if no match is found there, the last
attribute in Gltm_rt101 is used (tws_3rd).
The exception to the above condition is when the office has
access to a Central Trunk Test Unit (CTTU) as identified
by the global parameter Glcttu set to DBYES. In that case
an additional tuple must be added in RLtm_ws101.

**Attribute:**
number
**Fullname:**
Trunk Work Station (TWS) ID number.
**Attribute Description:**
This is the key for RLtm_ws101. Tuples in RLtlwsr
which have Talk and Monitor phones will have a
corresponding entry in RLtm_ws101 or if the office
has access to a CTTU.
This field corresponds to the 'number' attribute in RLtlwsr
or when Glcttu = DBYES, this field must be set to 33.

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**Attribute:**
type_tws
**Fullname:**
Type of TWS.
**Attribute Description:**
This field depends on how the talk and monitor phone is populated in RLtlwsr as follows:
if RLtlwsr.tm_phone = TMP_NULL, no tuple in RLtm_ws101.
if RLtlwsr.tm_phone = TMP_GPORT, set to 'TM_LOCAL'.
if RLtlwsr.tm_phone = TMP_LTP, set to 'TM_REMOTE'.
if Glcttu = Yes, set to 'TM_CTTU'.

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# TMBLIST

## 1. Description

Multiline hunt group terminal make busy list.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 75 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | GCRTG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 2048 |
| page level | 0 |
| trigger function | RTrchtky |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |

## 3. Field Layout

```
TMBLIST     relid = 97    DBSTATIC   DBACC_HASH  DBPRAM    LPFG    GCRTG
     scndindex   DMSHORT      (short)    <--- key
     length      DMSHORT      (short)
     grpnum      DMGRPNUM     (ushort)
     member0     DMMEMBER     (ushort)
     member1     DMMEMBER     (ushort)
     member2     DMMEMBER     (ushort)
     member3     DMMEMBER     (ushort)
     member4     DMMEMBER     (ushort)
     member5     DMMEMBER     (ushort)
     member6     DMMEMBER     (ushort)
     member7     DMMEMBER     (ushort)
     member8     DMMEMBER     (ushort)
     member9     DMMEMBER     (ushort)
     member10    DMMEMBER     (ushort)
     member11    DMMEMBER     (ushort)
     member12    DMMEMBER     (ushort)
     member13    DMMEMBER     (ushort)
     member14    DMMEMBER     (ushort)
     member15    DMMEMBER     (ushort)
     member16    DMMEMBER     (ushort)
     member17    DMMEMBER     (ushort)
     member18    DMMEMBER     (ushort)
     member19    DMMEMBER     (ushort)
     member20    DMMEMBER     (ushort)
     member21    DMMEMBER     (ushort)
     member22    DMMEMBER     (ushort)
     member23    DMMEMBER     (ushort)
     member24    DMMEMBER     (ushort)
     member25    DMMEMBER     (ushort)
     member26    DMMEMBER     (ushort)
     member27    DMMEMBER     (ushort)
     member28    DMMEMBER     (ushort)
```

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```
    member29    DMMEMBER     (ushort)
    member30    DMMEMBER     (ushort)
    member31    DMMEMBER     (ushort)
    htype       DMHNTTYPE    (enum: 5)
(a) bsytrt      DMBSYTRT     (enum: 2)
        User, Compacted and Stored Tuple Layout    TMBLIST
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |           scndindex           |              length           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |              grpnum           |             member0           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |             member1           |             member2           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |             member3           |             member4           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |             member5           |             member6           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |             member7           |             member8           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
24 |             member9           |             member10          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
28 |             member11          |             member12          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
32 |             member13          |             member14          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
36 |             member15          |             member16          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
40 |             member17          |             member18          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
44 |             member19          |             member20          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
48 |             member21          |             member22          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
52 |             member23          |             member24          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
56 |             member25          |             member26          |
   |---------------+---------------+---------------+---------------|
```

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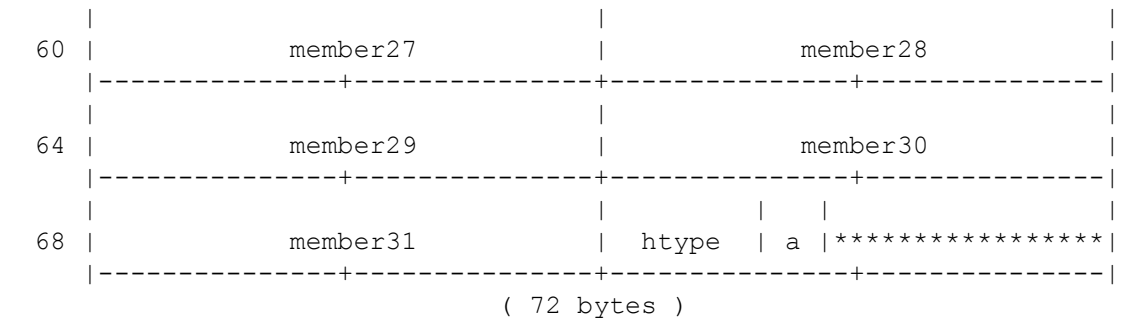


## 4. Population rules for RLtmblist

### Relation Description

Multiline hunt group terminal make busy key
On any given SM, ORM or RSM, for every tuple in the relation HUNTKEYS, where the attribute huntkey_type is FCMEMMKBUSY, the secondary index for that tuple should have it's corresponding tuple in TMBLIST, populated on the same modules as the HUNTKEYS tuple.

**Attribute:**
scndindex
**Fullname:**
secondary index
**Attribute Description:**
Key to relation. Obtained from the relation HUNTKEYS where the attribute huntkey_type is FCMEMMKBUSY.

**Attribute:**
length
**Fullname:**
number of ports in the list
**Attribute Description:**
Number of members under the control of the multiline hunt group member make busy key.

**Attribute:**
grpnum
**Fullname:**
group number of a mutiline hunt group
**Attribute Description:**
RLtmblist.grpnum must equal RLrt_mhg.grpnum

**Attribute:**
htype
**Fullname:**
hunting type
**Attribute Description:**

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Indicates the type of hunting for this group.
This attribute is not used, set to the default value.

**Attribute:**
bsytrt
**Fullname:**
busy treatment
**Attribute Description:**
Indicates the type of busy treatment associated
with this set of members.

**Attribute:**
member[*]
**Fullname:**
member
**Attribute Description:**
The member number of a member under control.

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# TMP1BCD

## 1. Description

Placeholder relation for use by 5E10(1) post RDL emergencies. This relation will have a distribution of FG (fixed group), with grp_type of GPD_OSPS, and a grp_id of 4.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
TMP1BCD     relid = 2207  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     key1_dnb    DMBCD_DN      (struct)    <--- key
         dn0          DMUNS4        (ushort: 4)
         dn1          DMUNS4        (ushort: 4)
         dn2          DMUNS4        (ushort: 4)
         dn3          DMUNS4        (ushort: 4)
         dn4          DMUNS4        (ushort: 4)
         dn5          DMUNS4        (ushort: 4)
         dn6          DMUNS4        (ushort: 4)
         dn7          DMUNS4        (ushort: 4)
         dn8          DMUNS4        (ushort: 4)
         dn9          DMUNS4        (ushort: 4)
         dn10         DMUNS4        (ushort: 4)
         dn11         DMUNS4        (ushort: 4)
         dn12         DMUNS4        (ushort: 4)
         dn13         DMUNS4        (ushort: 4)
         dn14         DMUNS4        (ushort: 4)
         digcnt       DMDIGCNT      (uchar: 4)
     key1_bb     DMUSHORT      (ushort)    <--- key
     key1_cb     DMUSHORT      (ushort)    <--- key
     long1b      DMHEX32       (ulong)
     short1_ab   DMUSHORT      (ushort)
     short1_bb   DMUSHORT      (ushort)
     short1_cb   DMUSHORT      (ushort)
     short1_db   DMUSHORT      (ushort)
     short1_eb   DMUSHORT      (ushort)
     char1b      DMUCHAR       (uchar)
 (a) bool1_ab    DMBOOL        (enum: 1)
 (b) bool1_bb    DMBOOL        (enum: 1)
 (c) bool1_cb    DMBOOL        (enum: 1)
 (d) bool1_db    DMBOOL        (enum: 1)
 (e) bool1_eb    DMBOOL        (enum: 1)
 (f) bool1_fb    DMBOOL        (enum: 1)
 (g) bool1_gb    DMBOOL        (enum: 1)
 (h) bool1_hb    DMBOOL        (enum: 1)
         User, Compacted and Stored Tuple Layout    TMP1BCD
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
```

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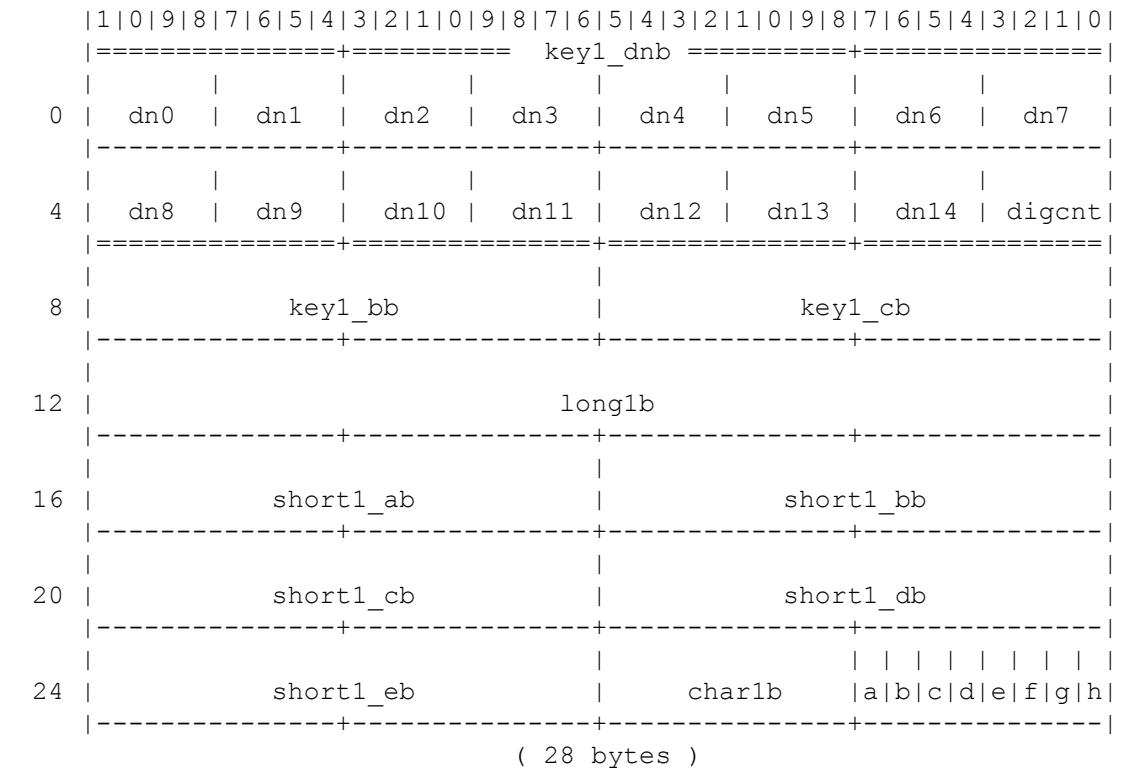


## 4. Population rules for RLtmp1bcd

### Relation Description

RLtmp1bcd has been allocated for any of the capabilities of 5E10(1) or OSPS fast feature.

**Attribute:**
key1_dnb
**Fullname:**
Packed 15 Digits + Count Key
**Attribute Description:**
Packed 15 digits + count key

**Attribute:**
key1_dnb.dn0
**Fullname:**
Digit0 of DN
**Attribute Description:**
Digit0 of dn

**Attribute:**
key1_dnb.dn1
**Fullname:**
Digit1 of DN
**Attribute Description:**

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Digit1 of dn

**Attribute:**
key1_dnb.dn2
**Fullname:**
Digit2 of DN
**Attribute Description:**
Digit2 of dn

**Attribute:**
key1_dnb.dn3
**Fullname:**
Digit3 of DN
**Attribute Description:**
Digit3 of dn

**Attribute:**
key1_dnb.dn4
**Fullname:**
Digit4 of DN
**Attribute Description:**
Digit4 of dn

**Attribute:**
key1_dnb.dn5
**Fullname:**
Digit5 of DN
**Attribute Description:**
Digit5 of dn

**Attribute:**
key1_dnb.dn6
**Fullname:**
Digit6 of DN
**Attribute Description:**
Digit6 of dn

**Attribute:**
key1_dnb.dn7
**Fullname:**
Digit7 of DN
**Attribute Description:**
Digit7 of dn

**Attribute:**
key1_dnb.dn8

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**Fullname:**
Digit8 of DN
**Attribute Description:**
Digit8 of dn

**Attribute:**
key1_dnb.dn9
**Fullname:**
Digit9 of DN
**Attribute Description:**
Digit9 of dn

**Attribute:**
key1_dnb.dn10
**Fullname:**
Digit10 of DN
**Attribute Description:**
Digit10 of dn

**Attribute:**
key1_dnb.dn11
**Fullname:**
Digit11 of DN
**Attribute Description:**
Digit11 of dn

**Attribute:**
key1_dnb.dn12
**Fullname:**
Digit12 of DN
**Attribute Description:**
Digit12 of dn

**Attribute:**
key1_dnb.dn13
**Fullname:**
Digit13 of DN
**Attribute Description:**
Digit13 of dn

**Attribute:**
key1_dnb.dn14
**Fullname:**
Digit14 of DN
**Attribute Description:**
Digit14 of dn

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**Attribute:**
key1_dnb.digcnt
**Fullname:**
Digit Counter
**Attribute Description:**
Digit counter of the count of digits in the key_dnb[*] array. Default is zero.

**Attribute:**
key1_bb
**Fullname:**
Second key.
**Attribute Description:**
Unknown.

**Attribute:**
key1_cb
**Fullname:**
Third key.
**Attribute Description:**
Unknown.

**Attribute:**
long1b
**Fullname:**
unsigned long attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short1_ab
**Fullname:**
first unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short1_bb
**Fullname:**
Second unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
short1_cb
**Fullname:**

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Third unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
short1_db
**Fullname:**
Fourth unsigned short attribute...
**Attribute Description:**
Unknown.

**Attribute:**
short1_eb
**Fullname:**
Fifth unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
char1b
**Fullname:**
Unsigned char attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool1_ab
**Fullname:**
First boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool1_bb
**Fullname:**
second boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool1_cb
**Fullname:**
Third boolean attribute.
**Attribute Description:**
Unknown.

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**Attribute:**
bool1_db
**Fullname:**
Fourth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool1_eb
**Fullname:**
Fifth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool1_fb
**Fullname:**
Sixth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool1_gb
**Fullname:**
Seventh boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool1_hb
**Fullname:**
Eighth boolean attribute.
**Attribute Description:**
Unknown.

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# TMP1CSFS

## 1. Description

Placeholder relation for use by 5E9(1) post RDL emergencies. This relation will have a distribution of FR (fixed redundant).

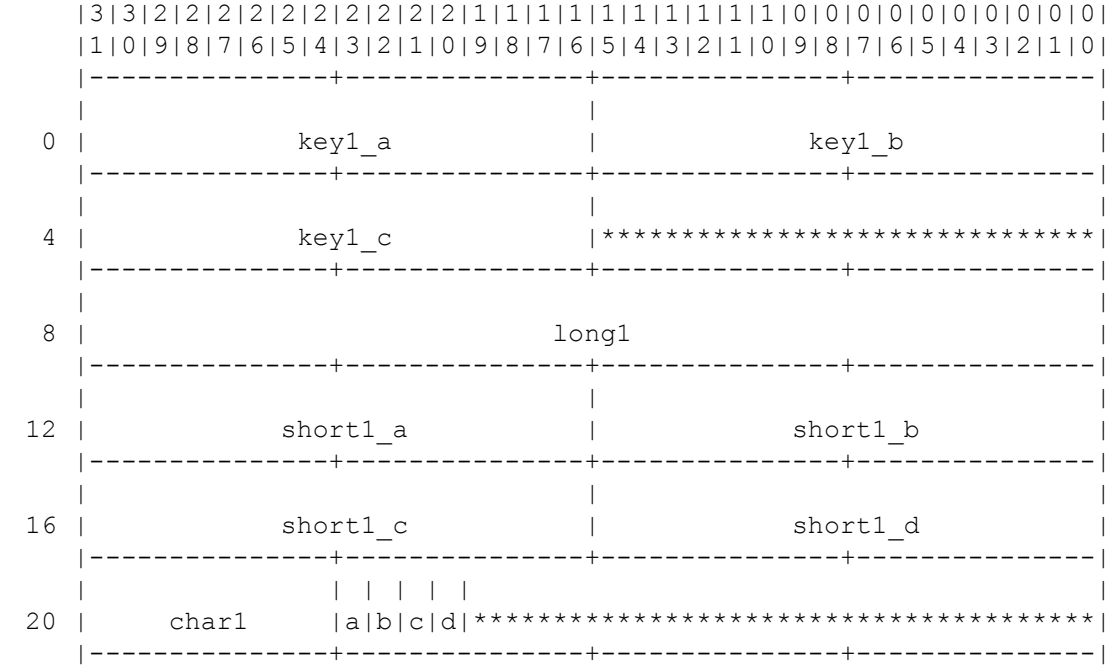
## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
TMP1CSFS    relid = 2019  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     key1_a      DMUSHORT     (ushort)    <--- key
     key1_b      DMUSHORT     (ushort)    <--- key
     key1_c      DMUSHORT     (ushort)    <--- key
     long1       DMHEX32      (ulong)
     short1_a    DMUSHORT     (ushort)
     short1_b    DMUSHORT     (ushort)
     short1_c    DMUSHORT     (ushort)
     short1_d    DMUSHORT     (ushort)
     char1       DMUCHAR      (uchar)
 (a) bool1_a     DMBOOL       (enum: 1)
 (b) bool1_b     DMBOOL       (enum: 1)
 (c) bool1_c     DMBOOL       (enum: 1)
 (d) bool1_d     DMBOOL       (enum: 1)
```

User, Compacted and Stored Tuple Layout TMP1CSFS



( 24 bytes )

## 4. Population rules for RLtmp1csfs

### Relation Description

RLtmp1csfs has been allocated for any of the capabilities of 5E9(1) or CSFS fast feature.

**Attribute:**
key1_a
**Fullname:**
First key.
**Attribute Description:**
Unknown.

**Attribute:**
key1_b
**Fullname:**
Second key.
**Attribute Description:**
Unknown.

**Attribute:**
key1_c
**Fullname:**
Third key.
**Attribute Description:**
Unknown.

**Attribute:**
long1
**Fullname:**
unsigned long attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short1_a
**Fullname:**
first unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short1_b
**Fullname:**
Second unsigned short attribute..

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**Attribute Description:**
Unknown.

**Attribute:**
short1_c
**Fullname:**
Third unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
short1_d
**Fullname:**
Fourth unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
char1
**Fullname:**
Unsigned char attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool1_a
**Fullname:**
First boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool1_b
**Fullname:**
Second boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool1_c
**Fullname:**
Third boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**

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bool1_d

**Fullname:**

Fourth boolean attribute.

**Attribute Description:**

Unknown.

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# TMP1OSPS

## 1. Description

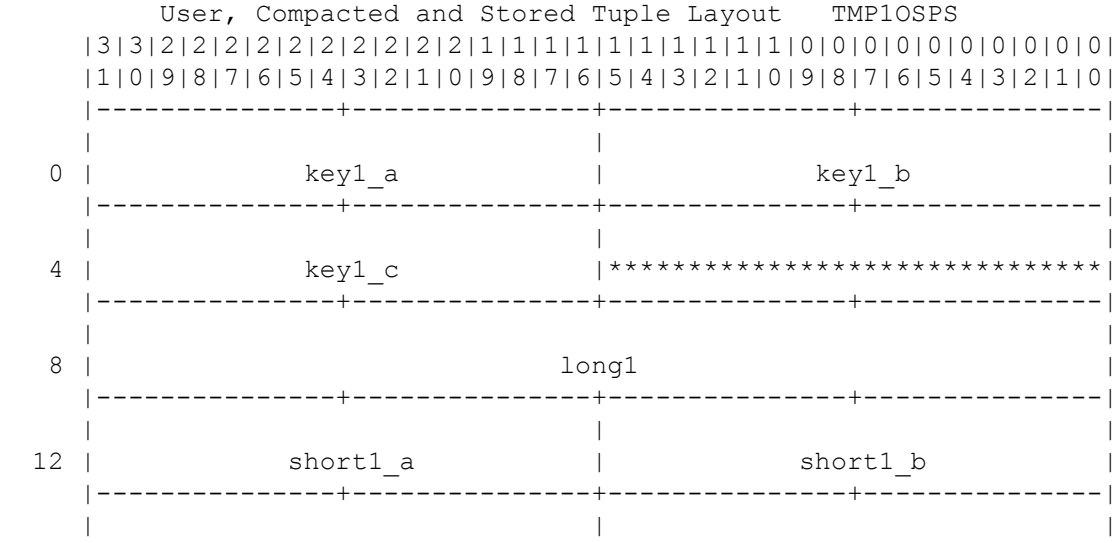
Placeholder relation for use by 5E6(2) post RDL emergencies.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| trigger function | OAtmp1osps |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | unperm |

## 3. Field Layout

```
TMP1OSPS    relid = 1467  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     key1_a      DMUSHORT     (ushort)    <--- key
     key1_b      DMUSHORT     (ushort)    <--- key
     key1_c      DMUSHORT     (ushort)    <--- key
     long1       DMHEX32      (ulong)
     short1_a    DMUSHORT     (ushort)
     short1_b    DMUSHORT     (ushort)
     short1_c    DMUSHORT     (ushort)
     short1_d    DMUSHORT     (ushort)
     char1       DMUCHAR      (uchar)
 (a) bool1_a     DMBOOL       (enum: 1)
 (b) bool1_b     DMBOOL       (enum: 1)
 (c) bool1_c     DMBOOL       (enum: 1)
 (d) bool1_d     DMBOOL       (enum: 1)
```

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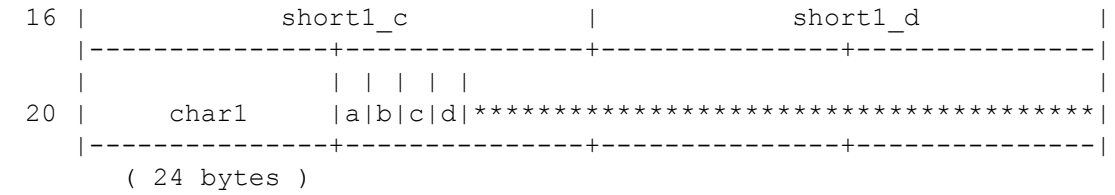


## 4. Population rules for RLtmp1osps

### Relation Description

RLtmp1osps is designated for the 5E6(2) and OSPS fast feature group.

**Attribute:**
key1_a
**Fullname:**
First key..
**Attribute Description:**
Unused.

**Attribute:**
key1_b
**Fullname:**
Second key..
**Attribute Description:**
Unused.

**Attribute:**
key1_c
**Fullname:**
Third key..
**Attribute Description:**
Unused.

**Attribute:**
long1
**Fullname:**
unsigned long attribute.
**Attribute Description:**
Unused.

**Attribute:**
short1_a
**Fullname:**
First unsigned short attribute.
**Attribute Description:**
Unused.

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**Attribute:**
short1_b
**Fullname:**
Second unsigned short attribute.
**Attribute Description:**
Unused.

**Attribute:**
short1_c
**Fullname:**
Third unsigned short attribute..
**Attribute Description:**
Unused.

**Attribute:**
short1_d
**Fullname:**
Fourth unsigned short attribute..
**Attribute Description:**
Unused.

**Attribute:**
char1
**Fullname:**
Unsigned char attribute.
**Attribute Description:**
Unused.

**Attribute:**
bool1_a
**Fullname:**
First boolean attribute.
**Attribute Description:**
Unused.

**Attribute:**
bool1_b
**Fullname:**
Second boolean attribute.
**Attribute Description:**
Unused.

**Attribute:**
bool1_c
**Fullname:**
Third boolean attribute.
**Attribute Description:**

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Unused.

**Attribute:**
bool1_d
**Fullname:**
Fourth boolean attribute.
**Attribute Description:**
Unused.

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# TMP2BCD

## 1. Description

Placeholder relation for use by 5E10(1) post RDL emergencies. This relation will have a distribution of FG (fixed group), with grp_type of GPD_OSPS, and a grp_id of 4.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
TMP2BCD     relid = 2208  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     key2_dnb    DMBCD_DN      (struct)    <--- key
         dn0          DMUNS4        (ushort: 4)
         dn1          DMUNS4        (ushort: 4)
         dn2          DMUNS4        (ushort: 4)
         dn3          DMUNS4        (ushort: 4)
         dn4          DMUNS4        (ushort: 4)
         dn5          DMUNS4        (ushort: 4)
         dn6          DMUNS4        (ushort: 4)
         dn7          DMUNS4        (ushort: 4)
         dn8          DMUNS4        (ushort: 4)
         dn9          DMUNS4        (ushort: 4)
         dn10         DMUNS4        (ushort: 4)
         dn11         DMUNS4        (ushort: 4)
         dn12         DMUNS4        (ushort: 4)
         dn13         DMUNS4        (ushort: 4)
         dn14         DMUNS4        (ushort: 4)
         digcnt       DMDIGCNT      (uchar: 4)
     key2_bb     DMUSHORT      (ushort)    <--- key
     key2_cb     DMUSHORT      (ushort)    <--- key
     long2b      DMHEX32       (ulong)
     short2_ab   DMUSHORT      (ushort)
     short2_bb   DMUSHORT      (ushort)
     short2_cb   DMUSHORT      (ushort)
     short2_db   DMUSHORT      (ushort)
     short2_eb   DMUSHORT      (ushort)
     char2b      DMUCHAR       (uchar)
 (a) bool2_ab    DMBOOL        (enum: 1)
 (b) bool2_bb    DMBOOL        (enum: 1)
 (c) bool2_cb    DMBOOL        (enum: 1)
 (d) bool2_db    DMBOOL        (enum: 1)
 (e) bool2_eb    DMBOOL        (enum: 1)
 (f) bool2_fb    DMBOOL        (enum: 1)
 (g) bool2_gb    DMBOOL        (enum: 1)
 (h) bool2_hb    DMBOOL        (enum: 1)

         User, Compacted and Stored Tuple Layout    TMP2BCD
```

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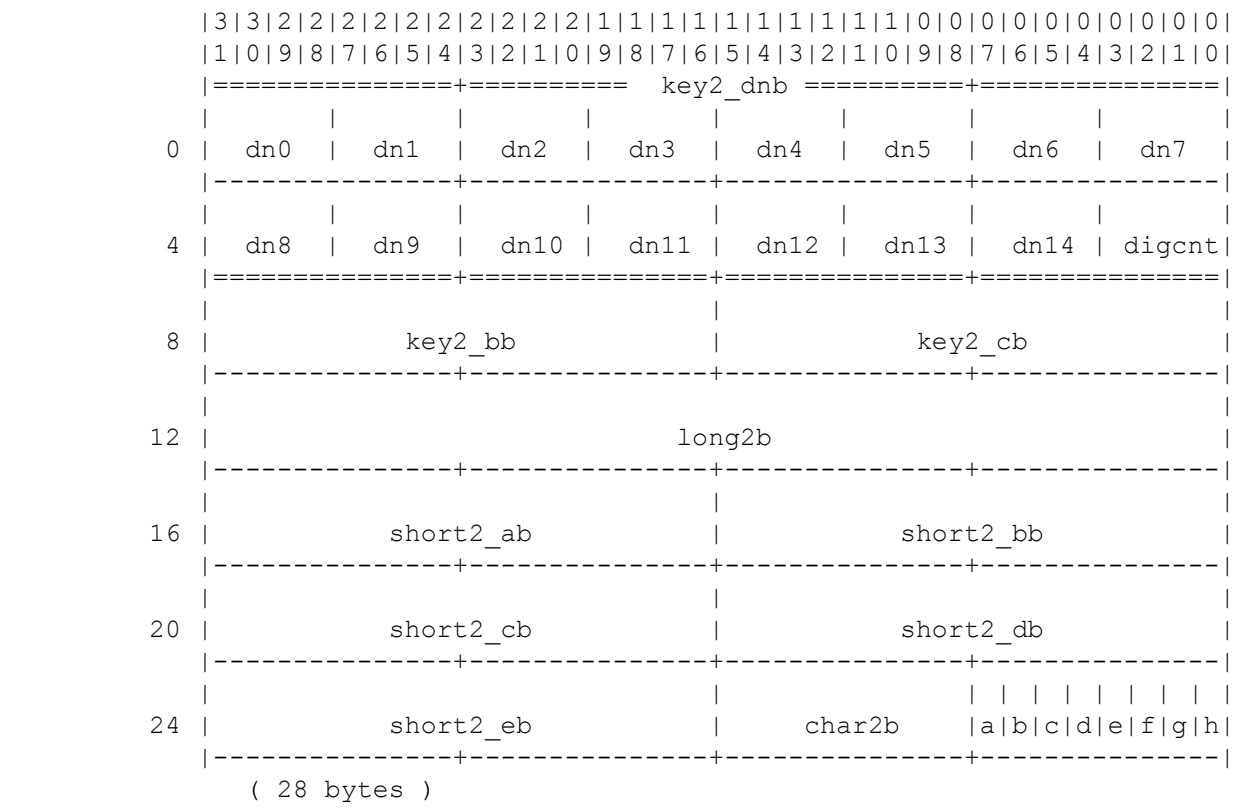


## 4. Population rules for RLtmp2bcd

### Relation Description

This relation, RLtmp2bcd is designated for the 5E10(1) and OSPS fast feature group.

**Attribute:**
key2_dnb
**Fullname:**
Packed 15 Digits + Count Key
**Attribute Description:**
First key..

**Attribute:**
key2_dnb.dn0
**Fullname:**
Digit0 of DN
**Attribute Description:**
Digit0 of dn.

**Attribute:**
key2_dnb.dn1
**Fullname:**
Digit1 of DN

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**Attribute Description:**
Digit1 of dn.

**Attribute:**
key2_dnb.dn2
**Fullname:**
Digit2 of DN
**Attribute Description:**
Digit2 of dn.

**Attribute:**
key2_dnb.dn3
**Fullname:**
Digit3 of DN
**Attribute Description:**
Digit3 of dn.

**Attribute:**
key2_dnb.dn4
**Fullname:**
Digit4 of DN
**Attribute Description:**
Digit4 of dn.

**Attribute:**
key2_dnb.dn5
**Fullname:**
Digit5 of DN
**Attribute Description:**
Digit5 of dn.

**Attribute:**
key2_dnb.dn6
**Fullname:**
Digit6 of DN
**Attribute Description:**
Digit6 of dn.

**Attribute:**
key2_dnb.dn7
**Fullname:**
Digit7 of DN
**Attribute Description:**
Digit7 of dn.

**Attribute:**

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key2_dnb.dn8
**Fullname:**
Digit8 of DN
**Attribute Description:**
Digit8 of dn.

**Attribute:**
key2_dnb.dn9
**Fullname:**
Digit9 of DN
**Attribute Description:**
Digit9 of dn.

**Attribute:**
key2_dnb.dn10
**Fullname:**
Digit10 of DN
**Attribute Description:**
Digit10 of dn.

**Attribute:**
key2_dnb.dn11
**Fullname:**
Digit11 of DN
**Attribute Description:**
Digit11 of dn.

**Attribute:**
key2_dnb.dn12
**Fullname:**
Digit12 of DN
**Attribute Description:**
Digit12 of dn.

**Attribute:**
key2_dnb.dn13
**Fullname:**
Digit13 of DN
**Attribute Description:**
Digit13 of dn.

**Attribute:**
key2_dnb.dn14
**Fullname:**
Digit14 of DN
**Attribute Description:**
Digit14 of dn.

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**Attribute:**
key2_dnb.digcnt
**Fullname:**
Digit Counter
**Attribute Description:**
Number of digits in the DN.

**Attribute:**
key2_bb
**Fullname:**
Second key.
**Attribute Description:**
Second key..

**Attribute:**
key2_cb
**Fullname:**
Third key.
**Attribute Description:**
Third key..

**Attribute:**
long2b
**Fullname:**
unsigned long attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short2_ab
**Fullname:**
first unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short2_bb
**Fullname:**
Second unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
short2_cb
**Fullname:**

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third unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short2_db
**Fullname:**
Fourth unsigned short attribute...
**Attribute Description:**
Unknown.

**Attribute:**
short2_eb
**Fullname:**
Fifth unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
char2b
**Fullname:**
Unsigned char attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool2_ab
**Fullname:**
First boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool2_bb
**Fullname:**
Second boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool2_cb
**Fullname:**
Third boolean attribute.
**Attribute Description:**
Unknown.

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**Attribute:**
bool2_db
**Fullname:**
Fourth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool2_eb
**Fullname:**
Fifth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool2_fb
**Fullname:**
Sixth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool2_gb
**Fullname:**
Seventh boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool2_hb
**Fullname:**
Eighth boolean attribute.
**Attribute Description:**
Unknown.

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# TMP2CSFS

## 1. Description

Placeholder relation for use by 5E9(1) post RDL emergencies. This relation will have a distribution of FR (fixed redundant).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
TMP2CSFS    relid = 2020  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     key2_a       DMUSHORT     (ushort)    <--- key
     key2_b       DMUSHORT     (ushort)    <--- key
     key2_c       DMUSHORT     (ushort)    <--- key
     long2        DMHEX32      (ulong)
     short2_a     DMUSHORT     (ushort)
     short2_b     DMUSHORT     (ushort)
     short2_c     DMUSHORT     (ushort)
     short2_d     DMUSHORT     (ushort)
     char2        DMUCHAR      (uchar)
 (a) bool2_a      DMBOOL       (enum: 1)
 (b) bool2_b      DMBOOL       (enum: 1)
 (c) bool2_c      DMBOOL       (enum: 1)
 (d) bool2_d      DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   TMP2CSFS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             key2_a            |             key2_b            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             key2_c            |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             long2                             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |            short2_a           |            short2_b           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 16 |            short2_c           |            short2_d           |
    |---------------+---------------+---------------+---------------|
    |               | | | | |                                       |
 20 |     char2     |a|b|c|d|***************************************|
    |---------------+---------------+---------------+---------------|
       ( 24 bytes )
```

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## 4. Population rules for RLtmp2csfs

### Relation Description

This relation, RLtmp2csfs is designated for the 5E9(1) and CSFS fast feature group.

**Attribute:**
key2_a
**Fullname:**
First key
**Attribute Description:**
Unknown.

**Attribute:**
key2_b
**Fullname:**
Second key.
**Attribute Description:**
Unknown.

**Attribute:**
key2_c
**Fullname:**
Third key.
**Attribute Description:**
Unknown.

**Attribute:**
long2
**Fullname:**
Uunsigned long attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short2_a
**Fullname:**
First unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short2_b
**Fullname:**
Second unsigned short attribute..
**Attribute Description:**
Unknown.

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**Attribute:**
short2_c
**Fullname:**
Third unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short2_d
**Fullname:**
Fourth unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
char2
**Fullname:**
Unsigned char attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool2_a
**Fullname:**
First boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool2_b
**Fullname:**
Second boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool2_c
**Fullname:**
Third boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool2_d
**Fullname:**

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Fourth boolean attribute.

**Attribute Description:**

Unknown.

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# TMP2OSPS

## 1. Description

This placeholder relation is use by the 5E6(2) post RDL emergencies.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| expected number of tuples | 100 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| permutation type | unperm |

## 3. Field Layout

```
TMP2OSPS    relid = 1468  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     key2_a      DMUSHORT     (ushort) <--- key
     key2_b      DMUSHORT     (ushort) <--- key
     key2_c      DMUSHORT     (ushort) <--- key
     long2       DMHEX32      (ulong)
     short2_a    DMUSHORT     (ushort)
     short2_b    DMUSHORT     (ushort)
     short2_c    DMUSHORT     (ushort)
     short2_d    DMUSHORT     (ushort)
     char2       DMUCHAR      (uchar)
 (a) bool2_a     DMBOOL       (enum: 1)
 (b) bool2_b     DMBOOL       (enum: 1)
 (c) bool2_c     DMBOOL       (enum: 1)
 (d) bool2_d     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   TMP2OSPS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             key2_a            |             key2_b            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             key2_c            |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             long2                             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |            short2_a           |            short2_b           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 16 |            short2_c           |            short2_d           |
    |---------------+---------------+---------------+---------------|
    |               | | | | |                                       |
 20 |     char2     |a|b|c|d|***************************************|
```

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```
|---------------+---------------+---------------+---------------|
   ( 24 bytes )
```

## 4. Population rules for RLtmp2osps

### Relation Description

RLtmp2osps.
RLtmp2osps has been allocated for any of the capabilities or OSPS fast features in 5E13.

**Attribute:**
key2_a
**Fullname:**
first key attribute.
**Attribute Description:**
Unknown.

**Attribute:**
key2_b
**Fullname:**
second Key attribute.
**Attribute Description:**
Unknown.

**Attribute:**
key2_c
**Fullname:**
third key attribute
**Attribute Description:**
Unknown.

**Attribute:**
long2
**Fullname:**
unsigned long attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short2_a
**Fullname:**
first unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short2_b

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**Fullname:**
Second unsigned short attribute
**Attribute Description:**
unknown

**Attribute:**
short2_c
**Fullname:**
third unsigned short attribute
**Attribute Description:**
unknown

**Attribute:**
short2_d
**Fullname:**
fourth unsigned short attribute
**Attribute Description:**
unknown

**Attribute:**
char2
**Fullname:**
unsigned char attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool2_a
**Fullname:**
first boolean attribute
**Attribute Description:**
Unknown.

**Attribute:**
bool2_b
**Fullname:**
second boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool2_c
**Fullname:**
third boolean attribute.
**Attribute Description:**
Unknown.

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**Attribute:**
bool2_d
**Fullname:**
fourth boolean attribute.
**Attribute Description:**
Unknown.

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# TMP3BCD

## 1. Description

Placeholder relation for use by 5E10(1) post RDL emergencies. This relation will have a distribution of FG (fixed group), with grp_type of GPD_OSPS, and a grp_id of 4.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
TMP3BCD     relid = 2209  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     key3_dnb    DMBCD_DN      (struct)    <--- key
         dn0          DMUNS4        (ushort: 4)
         dn1          DMUNS4        (ushort: 4)
         dn2          DMUNS4        (ushort: 4)
         dn3          DMUNS4        (ushort: 4)
         dn4          DMUNS4        (ushort: 4)
         dn5          DMUNS4        (ushort: 4)
         dn6          DMUNS4        (ushort: 4)
         dn7          DMUNS4        (ushort: 4)
         dn8          DMUNS4        (ushort: 4)
         dn9          DMUNS4        (ushort: 4)
         dn10         DMUNS4        (ushort: 4)
         dn11         DMUNS4        (ushort: 4)
         dn12         DMUNS4        (ushort: 4)
         dn13         DMUNS4        (ushort: 4)
         dn14         DMUNS4        (ushort: 4)
         digcnt       DMDIGCNT      (uchar: 4)
     key3_bb     DMUSHORT      (ushort)    <--- key
     key3_cb     DMUSHORT      (ushort)    <--- key
     long3b      DMHEX32       (ulong)
     short3_ab   DMUSHORT      (ushort)
     short3_bb   DMUSHORT      (ushort)
     short3_cb   DMUSHORT      (ushort)
     short3_db   DMUSHORT      (ushort)
     short3_eb   DMUSHORT      (ushort)
     char3b      DMUCHAR       (uchar)
 (a) bool3_ab    DMBOOL        (enum: 1)
 (b) bool3_bb    DMBOOL        (enum: 1)
 (c) bool3_cb    DMBOOL        (enum: 1)
 (d) bool3_db    DMBOOL        (enum: 1)
 (e) bool3_eb    DMBOOL        (enum: 1)
 (f) bool3_fb    DMBOOL        (enum: 1)
 (g) bool3_gb    DMBOOL        (enum: 1)
 (h) bool3_hb    DMBOOL        (enum: 1)
         User, Compacted and Stored Tuple Layout    TMP3BCD
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
```

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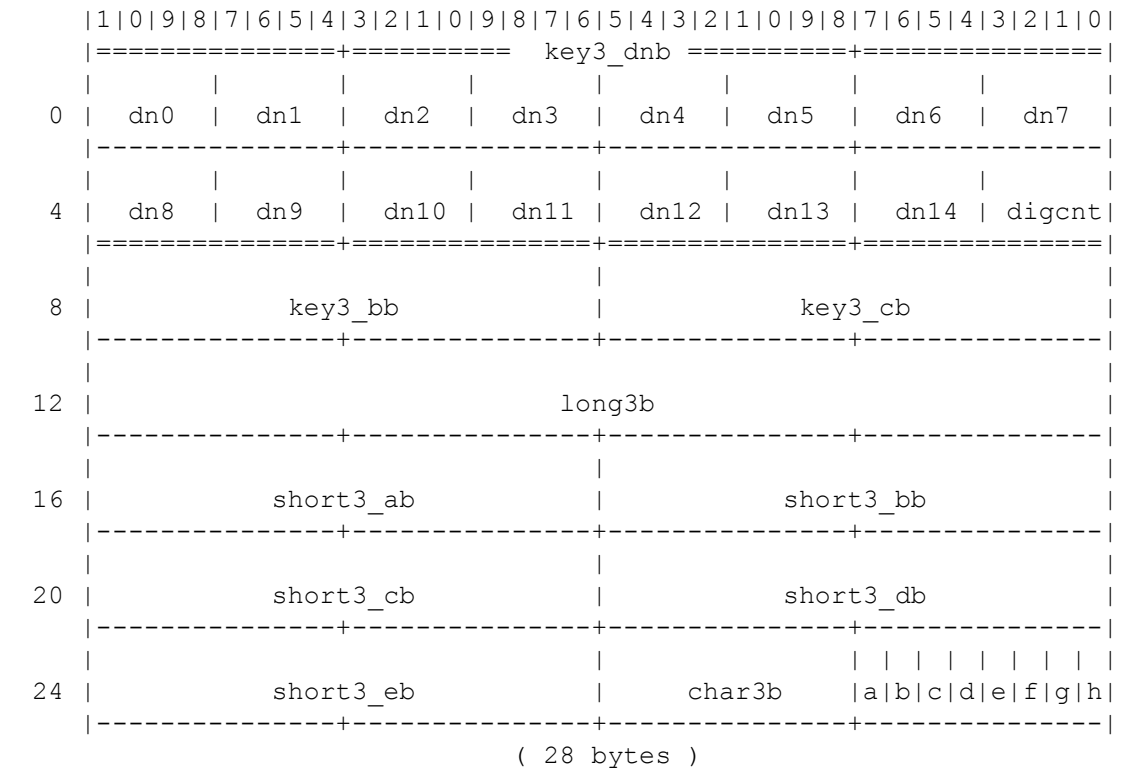


## 4. Population rules for RLtmp3bcd

### Relation Description

This relation, RLtmp3bcd, has been re-allocated for any 5E12(1) or OSPS fast feature.

**Attribute:**
key3_dnb
**Fullname:**
Packed 15 Digits + Count Key
**Attribute Description:**
Packed 15 digits + count key

**Attribute:**
key3_dnb.dn0
**Fullname:**
Digit0 of DN
**Attribute Description:**
Digit0 of dn

**Attribute:**
key3_dnb.dn1
**Fullname:**
Digit1 of DN
**Attribute Description:**

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Digit1 of dn

**Attribute:**
key3_dnb.dn2
**Fullname:**
Digit2 of DN
**Attribute Description:**
Digit2 of dn

**Attribute:**
key3_dnb.dn3
**Fullname:**
Digit3 of DN
**Attribute Description:**
Digit3 of dn

**Attribute:**
key3_dnb.dn4
**Fullname:**
Digit4 of DN
**Attribute Description:**
Digit4 of dn

**Attribute:**
key3_dnb.dn5
**Fullname:**
Digit5 of DN
**Attribute Description:**
Digit5 of dn

**Attribute:**
key3_dnb.dn6
**Fullname:**
Digit6 of DN
**Attribute Description:**
Digit6 of dn

**Attribute:**
key3_dnb.dn7
**Fullname:**
Digit7 of DN
**Attribute Description:**
Digit7 of dn

**Attribute:**
key3_dnb.dn8

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**Fullname:**
Digit8 of DN
**Attribute Description:**
Digit8 of dn

**Attribute:**
key3_dnb.dn9
**Fullname:**
Digit9 of DN
**Attribute Description:**
Digit9 of dn

**Attribute:**
key3_dnb.dn10
**Fullname:**
Digit10 of DN
**Attribute Description:**
Digit10 of dn

**Attribute:**
key3_dnb.dn11
**Fullname:**
Digit11 of DN
**Attribute Description:**
Digit11 of dn

**Attribute:**
key3_dnb.dn12
**Fullname:**
Digit12 of DN
**Attribute Description:**
Digit12 of dn

**Attribute:**
key3_dnb.dn13
**Fullname:**
Digit13 of DN
**Attribute Description:**
Digit13 of dn

**Attribute:**
key3_dnb.dn14
**Fullname:**
Digit14 of DN
**Attribute Description:**
Digit14 of dn

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**Attribute:**
key3_dnb.digcnt
**Fullname:**
Digit Counter
**Attribute Description:**
Digit counter

**Attribute:**
key3_bb
**Fullname:**
Second key.
**Attribute Description:**
Unknown.

**Attribute:**
key3_cb
**Fullname:**
Third key.
**Attribute Description:**
Unknown.

**Attribute:**
long3b
**Fullname:**
Unsigned long attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short3_ab
**Fullname:**
First unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short3_bb
**Fullname:**
Second unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short3_cb
**Fullname:**
Third unsigned short attribute.

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**Attribute Description:**
Unknown.

**Attribute:**
short3_db
**Fullname:**
Fourth unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
short3_eb
**Fullname:**
Fifth unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
char3b
**Fullname:**
Unsigned char attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool3_ab
**Fullname:**
First boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool3_bb
**Fullname:**
Second boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool3_cb
**Fullname:**
Third boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**

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bool3_db
**Fullname:**
Fourth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool3_eb
**Fullname:**
Fifth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool3_fb
**Fullname:**
Sixth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool3_gb
**Fullname:**
Seventh boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool3_hb
**Fullname:**
Eighth boolean attribute.
**Attribute Description:**
Unknown.

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# TMP3CSFS

## 1. Description

Placeholder relation for use by 5E9(1) post RDL emergencies. This relation will have a distribution of FR (fixed redundant).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
TMP3CSFS    relid = 2021  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     key3_a       DMUSHORT     (ushort)    <--- key
     key3_b       DMUSHORT     (ushort)    <--- key
     key3_c       DMUSHORT     (ushort)    <--- key
     long3        DMHEX32      (ulong)
     short3_a     DMUSHORT     (ushort)
     short3_b     DMUSHORT     (ushort)
     short3_c     DMUSHORT     (ushort)
     short3_d     DMUSHORT     (ushort)
     char3        DMUCHAR      (uchar)
 (a) bool3_a      DMBOOL       (enum: 1)
 (b) bool3_b      DMBOOL       (enum: 1)
 (c) bool3_c      DMBOOL       (enum: 1)
 (d) bool3_d      DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   TMP3CSFS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              key3_a           |              key3_b           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              key3_c           |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             long3                             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |             short3_a          |             short3_b          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 16 |             short3_c          |             short3_d          |
    |---------------+---------------+---------------+---------------|
    |               | | | | |                                       |
 20 |     char3     |a|b|c|d|***************************************|
    |---------------+---------------+---------------+---------------|
                             ( 24 bytes )
```

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## 4. Population rules for RLtmp3csfs

### Relation Description

This relation has been allocated for any of the capabilities of 5E9(1) or CSFS fast feature.

**Attribute:**
key3_a
**Fullname:**
First key
**Attribute Description:**
Unknown.

**Attribute:**
key3_b
**Fullname:**
Second key.
**Attribute Description:**
Unknown.

**Attribute:**
key3_c
**Fullname:**
Third key.
**Attribute Description:**
Unknown.

**Attribute:**
long3
**Fullname:**
Unsigned long attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short3_a
**Fullname:**
First unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short3_b
**Fullname:**
Second unsigned short attribute.
**Attribute Description:**
Unknown.

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**Attribute:**
short3_c
**Fullname:**
Third unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short3_d
**Fullname:**
Fourth unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
char3
**Fullname:**
Unsigned char attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool3_a
**Fullname:**
First boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool3_b
**Fullname:**
Second boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool3_c
**Fullname:**
Third boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool3_d
**Fullname:**

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Fourth boolean attribute.

**Attribute Description:**

Unknown.

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# TMP3OSPS

## 1. Description

This placeholder relation is for use by the RDL emergencies.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| trigger function | OAtmp3osps |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | unperm |

## 3. Field Layout

```
TMP3OSPS    relid = 1469  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL


     key3_a      DMUSHORT     (ushort)  <--- key
     key3_b      DMUSHORT     (ushort)  <--- key
     key3_c      DMUSHORT     (ushort)  <--- key
     long3       DMHEX32      (ulong)
     short3_a    DMUSHORT     (ushort)
     short3_b    DMUSHORT     (ushort)
     short3_c    DMUSHORT     (ushort)
     short3_d    DMUSHORT     (ushort)
     char3       DMUCHAR      (uchar)
(a)  bool3_a     DMBOOL       (enum: 1)
(b)  bool3_b     DMBOOL       (enum: 1)
(c)  bool3_c     DMBOOL       (enum: 1)
(d)  bool3_d     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   TMP3OSPS
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             key3_a            |             key3_b            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |             key3_c            |*******************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 8 |                             long3                             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |            short3_a           |            short3_b           |
   |---------------+---------------+---------------+---------------|
```

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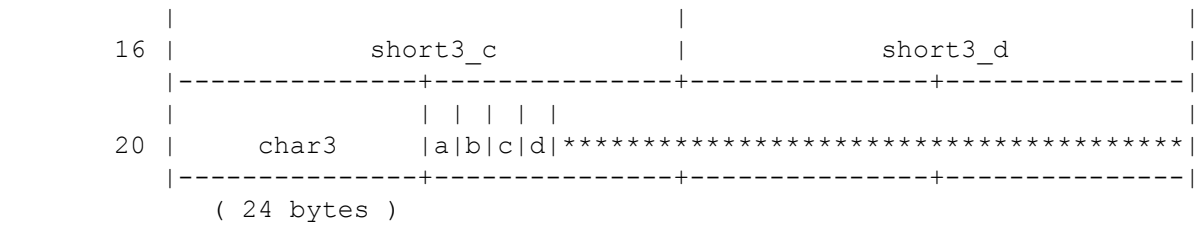


## 4. Population rules for RLtmp3osps

### Relation Description

RLtmp3osps is designated for the OSPS fast feature group.

RLtmp3osps will be used for OSPS SU features.

**Attribute:**
key3_a
**Fullname:**
first key.
**Attribute Description:**
Unused.

**Attribute:**
key3_b
**Fullname:**
second key.
**Attribute Description:**
Unused.

**Attribute:**
key3_c
**Fullname:**
third key.
**Attribute Description:**
Unused.

**Attribute:**
long3
**Fullname:**
unsigned long attribute.
**Attribute Description:**
Unused.

**Attribute:**
short3_a
**Fullname:**
first unsigned short attribute.
**Attribute Description:**

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Unused.

**Attribute:**
short3_b
**Fullname:**
second unsigned short attribute.
**Attribute Description:**
Unused.

**Attribute:**
short3_c
**Fullname:**
third unsigned short attribute.
**Attribute Description:**
Unused.

**Attribute:**
short3_d
**Fullname:**
fourth unsigned short attribute.
**Attribute Description:**
Unused.

**Attribute:**
char3
**Fullname:**
unsigned char attribute.
**Attribute Description:**
Unused.

**Attribute:**
bool3_a
**Fullname:**
first boolean attribute.
**Attribute Description:**
Unused.

**Attribute:**
bool3_b
**Fullname:**
second boolean attribute.
**Attribute Description:**
Unused.

**Attribute:**
bool3_c

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**Fullname:**
third boolean attribute.
**Attribute Description:**
Unused.

**Attribute:**
bool3_d
**Fullname:**
fourth boolean attribute.
**Attribute Description:**
Unused.

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# TMP4CSFS

## 1. Description

This is a placeholder relation for use by 5E9(1) post RDL emergencies. This relation will have a distribution of FR (fixed redundant).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
TMP4CSFS    relid = 2026  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     key4_a       DMUSHORT     (ushort)    <--- key
     key4_b       DMUSHORT     (ushort)    <--- key
     key4_c       DMUSHORT     (ushort)    <--- key
     long4        DMHEX32      (ulong)
     short4_a     DMUSHORT     (ushort)
     short4_b     DMUSHORT     (ushort)
     short4_c     DMUSHORT     (ushort)
     short4_d     DMUSHORT     (ushort)
     char4        DMUCHAR      (uchar)
 (a) bool4_a      DMBOOL       (enum: 1)
 (b) bool4_b      DMBOOL       (enum: 1)
 (c) bool4_c      DMBOOL       (enum: 1)
 (d) bool4_d      DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   TMP4CSFS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              key4_a           |              key4_b           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              key4_c           |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             long4                             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |             short4_a          |             short4_b          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 16 |             short4_c          |             short4_d          |
    |---------------+---------------+---------------+---------------|
    |               | | | | |                                       |
 20 |     char4     |a|b|c|d|***************************************|
    |---------------+---------------+---------------+---------------|
                           ( 24 bytes )
```

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## 4. Population rules for RLtmp4csfs

### Relation Description

This relation, RLtmp4csfs, has been allocated for any 5E9(1) or CSFS fast feature.

**Attribute:**
key4_a
**Fullname:**
First key
**Attribute Description:**
Unknown.

**Attribute:**
key4_b
**Fullname:**
Second key.
**Attribute Description:**
Unknown.

**Attribute:**
key4_c
**Fullname:**
Third key.
**Attribute Description:**
Unknown.

**Attribute:**
long4
**Fullname:**
Unsigned long attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short4_a
**Fullname:**
First unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short4_b
**Fullname:**
Second unsigned short attribute.
**Attribute Description:**
Unknown.

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**Attribute:**
short4_c
**Fullname:**
Third unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short4_d
**Fullname:**
Fourth unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
char4
**Fullname:**
Unsigned char attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool4_a
**Fullname:**
First boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool4_b
**Fullname:**
Second boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool4_c
**Fullname:**
Third boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool4_d
**Fullname:**

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Fourth boolean attribute.

**Attribute Description:**

Unknown.

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# TMP4OSPS

## 1. Description

This relation is apPlaceholder relation for use by 5E6(2) post RDL emergencies.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| permutation type | unperm |

## 3. Field Layout

```
TMP4OSPS    relid = 1470  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     key4_a      DMUSHORT     (ushort)    <--- key
     key4_b      DMUSHORT     (ushort)    <--- key
     key4_c      DMUSHORT     (ushort)    <--- key
     long4       DMHEX32      (ulong)
     short4_a    DMUSHORT     (ushort)
     short4_b    DMUSHORT     (ushort)
     short4_c    DMUSHORT     (ushort)
     short4_d    DMUSHORT     (ushort)
     char4       DMUCHAR      (uchar)
 (a) bool4_a     DMBOOL       (enum: 1)
 (b) bool4_b     DMBOOL       (enum: 1)
 (c) bool4_c     DMBOOL       (enum: 1)
 (d) bool4_d     DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout   TMP4OSPS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              key4_a           |              key4_b           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              key4_c           |*******************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |                            long4                              |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |             short4_a          |             short4_b          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 16 |             short4_c          |             short4_d          |
    |---------------+---------------+---------------+---------------|
    |                 | | | | |                                   |
 20 |      char4      |a|b|c|d|***********************************|
    |---------------+---------------+---------------+---------------|
```

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( 24 bytes )

## 4. Population rules for RLtmp4osps

### Relation Description

This relation, RLtmp4osps, is designated for OSPS fast feature group.

**Attribute:**
key4_a
**Fullname:**
First key.
**Attribute Description:**
Unknown

**Attribute:**
key4_b
**Fullname:**
Second key.
**Attribute Description:**
Unknown

**Attribute:**
key4_c
**Fullname:**
Third key.
**Attribute Description:**
Unknown

**Attribute:**
long4
**Fullname:**
Unsigned long attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short4_a
**Fullname:**
First unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short4_b
**Fullname:**
Second unsigned short attribute.
**Attribute Description:**

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Unknown.

**Attribute:**
short4_c
**Fullname:**
Third unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short4_d
**Fullname:**
Fourth unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
char4
**Fullname:**
Unsigned char attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool4_a
**Fullname:**
First boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool4_b
**Fullname:**
Second boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool4_c
**Fullname:**
Third boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool4_d

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**Fullname:**
Fourth boolean attribute.
**Attribute Description:**
Unknown.

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# TMP5OSPS

## 1. Description

Placeholder relation for use by 5E6(2) post RDL emergencies.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| permutation type | unperm |

## 3. Field Layout

```
TMP5OSPS    relid = 1471  DBSTATIC   DBACC_HASH  DBPRAM    LR      NULL
     key5_a      DMUSHORT     (ushort)    <--- key
     key5_b      DMUSHORT     (ushort)    <--- key
     key5_c      DMUSHORT     (ushort)    <--- key
     long5       DMHEX32      (ulong)
     short5_a    DMUSHORT     (ushort)
     short5_b    DMUSHORT     (ushort)
     short5_c    DMUSHORT     (ushort)
     short5_d    DMUSHORT     (ushort)
     char5       DMUCHAR      (uchar)
 (a) bool5_a     DMBOOL       (enum: 1)
 (b) bool5_b     DMBOOL       (enum: 1)
 (c) bool5_c     DMBOOL       (enum: 1)
 (d) bool5_d     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   TMP5OSPS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             key5_a            |             key5_b            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             key5_c            |*******************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |                           long5                               |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |            short5_a           |            short5_b           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 16 |            short5_c           |            short5_d           |
    |---------------+---------------+---------------+---------------|
    |               | | | | |                                       |
 20 |     char5     |a|b|c|d|***************************************|
    |---------------+---------------+---------------+---------------|
```

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( 24 bytes )

## 4. Population rules for RLtmp5osps

### Relation Description

This is relation, RLtmp5osps, is designated for the OSPS fast feature group.

**Attribute:**
key5_a
**Fullname:**
First key.
**Attribute Description:**
Unknown.

**Attribute:**
key5_b
**Fullname:**
Second key.
**Attribute Description:**
Unknown.

**Attribute:**
key5_c
**Fullname:**
Third key.
**Attribute Description:**
Unknown.

**Attribute:**
long5
**Fullname:**
Unsigned long attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short5_a
**Fullname:**
First unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short5_b
**Fullname:**
Second unsigned short attribute.
**Attribute Description:**

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Unknown.

**Attribute:**
short5_c
**Fullname:**
Third unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short5_d
**Fullname:**
Fourth unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
char5
**Fullname:**
Unsigned char attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool5_a
**Fullname:**
First boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool5_b
**Fullname:**
Second boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool5_c
**Fullname:**
Third boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool5_d

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**Fullname:**
Fourth boolean attribute.
**Attribute Description:**
Unknown.

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# TMP6OSPS

## 1. Description

Placeholder relation for use by 5E9(1) post RDL emergencies. This relation will have a distribution of FG (fixed group), with grp_type of GPD_OSPS, and a grp_id of 4.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
TMP6OSPS    relid = 2038  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     key6_a      DMUSHORT     (ushort)    <--- key
     key6_b      DMUSHORT     (ushort)    <--- key
     key6_c      DMUSHORT     (ushort)    <--- key
     long6       DMHEX32      (ulong)
     short6_a    DMUSHORT     (ushort)
     short6_b    DMUSHORT     (ushort)
     short6_c    DMUSHORT     (ushort)
     short6_d    DMUSHORT     (ushort)
     char6       DMUCHAR      (uchar)
 (a) bool6_a     DMBOOL       (enum: 1)
 (b) bool6_b     DMBOOL       (enum: 1)
 (c) bool6_c     DMBOOL       (enum: 1)
 (d) bool6_d     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   TMP6OSPS
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             key6_a            |             key6_b            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |             key6_c            |*******************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 8 |                            long6                              |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |            short6_a           |            short6_b           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |            short6_c           |            short6_d           |
   |---------------+---------------+---------------+---------------|
   |               | | | | |                                       |
20 |     char6     |a|b|c|d|***************************************|
   |---------------+---------------+---------------+---------------|
                              ( 24 bytes )
```

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## 4. Population rules for RLtmp6osps

### Relation Description

This relation, RLtmp6osps, is designated for the 5E9(1) and OSPS fast feature group.

**Attribute:**
key6_a
**Fullname:**
First key.
**Attribute Description:**
Unused.

**Attribute:**
key6_b
**Fullname:**
Second key.
**Attribute Description:**
Unused.

**Attribute:**
key6_c
**Fullname:**
Third key.
**Attribute Description:**
Unused.

**Attribute:**
long6
**Fullname:**
Unsigned long attribute.
**Attribute Description:**
Unused.

**Attribute:**
short6_a
**Fullname:**
First unsigned short attribute.
**Attribute Description:**
Unused.

**Attribute:**
short6_b
**Fullname:**
Second unsigned short attribute.
**Attribute Description:**
Unused.

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**Attribute:**
short6_c
**Fullname:**
Third unsigned short attribute.
**Attribute Description:**
Unused.

**Attribute:**
short6_d
**Fullname:**
Fourth unsigned short attribute..
**Attribute Description:**
Unused.

**Attribute:**
char6
**Fullname:**
Unsigned char attribute.
**Attribute Description:**
Unused.

**Attribute:**
bool6_a
**Fullname:**
First boolean attribute.
**Attribute Description:**
Unused.

**Attribute:**
bool6_b
**Fullname:**
Second boolean attribute.
**Attribute Description:**
Unused.

**Attribute:**
bool6_c
**Fullname:**
Third boolean attribute.
**Attribute Description:**
Unused.

**Attribute:**
bool6_d
**Fullname:**

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Fourth boolean attribute.

**Attribute Description:**

Unused.

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# TMP7OSPS

## 1. Description

This relation is a placeholder relation for use by 5E9(1) post RDL emergencies. This relation will have a distribution of FG (Fixed Froup), with grp_type of GPD_OSPS, and a grpi_d of 4.

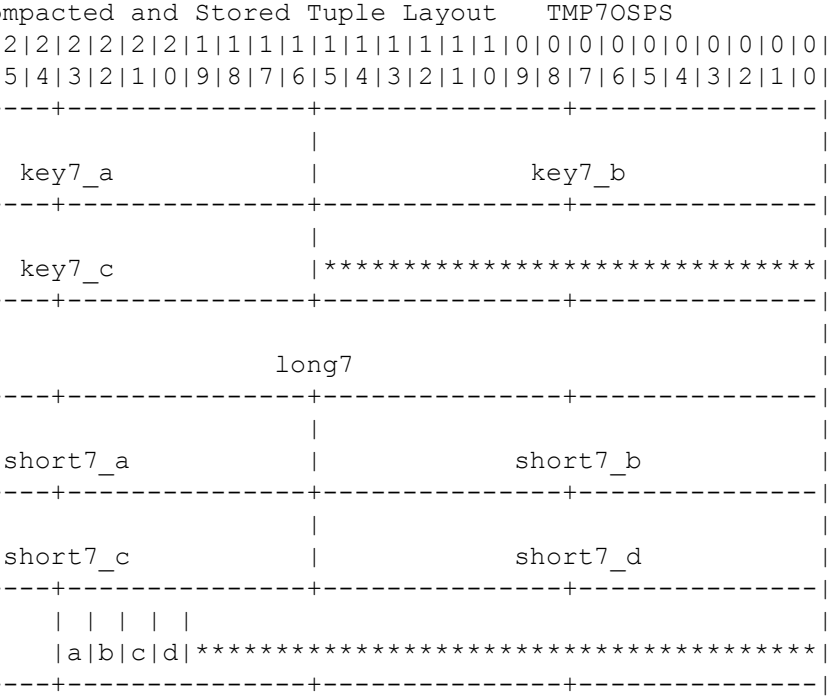
## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
TMP7OSPS    relid = 2039  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     key7_a       DMUSHORT     (ushort)    <--- key
     key7_b       DMUSHORT     (ushort)    <--- key
     key7_c       DMUSHORT     (ushort)    <--- key
     long7        DMHEX32      (ulong)
     short7_a     DMUSHORT     (ushort)
     short7_b     DMUSHORT     (ushort)
     short7_c     DMUSHORT     (ushort)
     short7_d     DMUSHORT     (ushort)
     char7        DMUCHAR      (uchar)
 (a) bool7_a      DMBOOL       (enum: 1)
 (b) bool7_b      DMBOOL       (enum: 1)
 (c) bool7_c      DMBOOL       (enum: 1)
 (d) bool7_d      DMBOOL       (enum: 1)
```

User, Compacted and Stored Tuple Layout TMP7OSPS

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( 24 bytes )

## 4. Population rules for RLtmp7osps

### Relation Description

RLtmp7osps is to be used for OSPS special features.
RLtmp7osps has been allocated for any of the capabilities or fast features in 5e13.

**Attribute:**
key7_a
**Fullname:**
first key
**Attribute Description:**
Unused.

**Attribute:**
key7_b
**Fullname:**
second key
**Attribute Description:**
Unused.

**Attribute:**
key7_c
**Fullname:**
third key
**Attribute Description:**
Unused.

**Attribute:**
long7
**Fullname:**
unsigned long attribute.
**Attribute Description:**
Unused.

**Attribute:**
short7_a
**Fullname:**
first unsigned short attribute.
**Attribute Description:**
Unused.

**Attribute:**
short7_b
**Fullname:**

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second unsigned short attribute.

**Attribute Description:**

Unused.

**Attribute:**

short7_c

**Fullname:**

third unsigned short attribute.

**Attribute Description:**

Unused.

**Attribute:**

short7_d

**Fullname:**

fourth unsigned short attribute.

**Attribute Description:**

Unused.

**Attribute:**

char7

**Fullname:**

unsigned char attribute.

**Attribute Description:**

Unused.

**Attribute:**

bool7_a

**Fullname:**

first boolean attribute.

**Attribute Description:**

Unused.

**Attribute:**

bool7_b

**Fullname:**

second boolean attribute.

**Attribute Description:**

Unused.

**Attribute:**

bool7_c

**Fullname:**

third boolean attribute.

**Attribute Description:**

Unused.

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**Attribute:**
bool7_d
**Fullname:**
fourth boolean attribute.
**Attribute Description:**
Unused.

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# TMP8OSPS

## 1. Description

Placeholder relation for use by 5E9(1) post RDL emergencies. This relation will have a distribution of FG (fixed group), with grp_type of GPD_OSPS, and a grp_id of 4.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
TMP8OSPS    relid = 2042  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL

     key8_a      DMUSHORT     (ushort) <--- key
     key8_b      DMUSHORT     (ushort) <--- key
     key8_c      DMUSHORT     (ushort) <--- key
     long8       DMHEX32      (ulong)
     short8_a    DMUSHORT     (ushort)
     short8_b    DMUSHORT     (ushort)
     short8_c    DMUSHORT     (ushort)
     short8_d    DMUSHORT     (ushort)
     char8       DMUCHAR      (uchar)
 (a) bool8_a     DMBOOL       (enum: 1)
 (b) bool8_b     DMBOOL       (enum: 1)
 (c) bool8_c     DMBOOL       (enum: 1)
 (d) bool8_d     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   TMP8OSPS
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             key8_a            |             key8_b            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |             key8_c            |*******************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 8 |                             long8                             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |            short8_a           |            short8_b           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |            short8_c           |            short8_d           |
   |---------------+---------------+---------------+---------------|
   |               | | | | |                                       |
20 |     char8     |a|b|c|d|***************************************|
   |---------------+---------------+---------------+---------------|
```

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( 24 bytes )

## 4. Population rules for RLtmp8osps

### Relation Description

RLtmp8osps is designated for the 5E9(1) and OSPS fast feature group.

**Attribute:**
key8_a
**Fullname:**
first key
**Attribute Description:**
Unused.

**Attribute:**
key8_b
**Fullname:**
second key
**Attribute Description:**
Unused.

**Attribute:**
key8_c
**Fullname:**
third key
**Attribute Description:**
Unused.

**Attribute:**
long8
**Fullname:**
unsigned long attribute.
**Attribute Description:**
Unused.

**Attribute:**
short8_a
**Fullname:**
first unsigned short attribute.
**Attribute Description:**
Unused.

**Attribute:**
short8_b
**Fullname:**
second unsigned short attribute.
**Attribute Description:**

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Unused.

**Attribute:**
short8_c
**Fullname:**
third unsigned short attribute.
**Attribute Description:**
Unused.

**Attribute:**
short8_d
**Fullname:**
fourth unsigned short attribute.
**Attribute Description:**
Unused.

**Attribute:**
char8
**Fullname:**
unsigned char attribute.
**Attribute Description:**
Unused.

**Attribute:**
bool8_a
**Fullname:**
first boolean attribute.
**Attribute Description:**
Unused.

**Attribute:**
bool8_b
**Fullname:**
second boolean attribute.
**Attribute Description:**
Unused.

**Attribute:**
bool8_c
**Fullname:**
third boolean attribute.
**Attribute Description:**
Unused.

**Attribute:**
bool8_d

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**Fullname:**
fourth boolean attribute.
**Attribute Description:**
Unused.

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# TMP9OSPS

## 1. Description

This placeholder relation is use by the 5E9(1) post RDL emergencies. This relation will have a distribution of Fixed Group (FG), with grp_type of GPD_OSPS, and a grp_id of 4.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
TMP9OSPS    relid = 2045  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     key9_a      DMUSHORT     (ushort) <--- key
     key9_b      DMUSHORT     (ushort) <--- key
     key9_c      DMUSHORT     (ushort) <--- key
     long9       DMHEX32      (ulong)
     short9_a    DMUSHORT     (ushort)
     short9_b    DMUSHORT     (ushort)
     short9_c    DMUSHORT     (ushort)
     short9_d    DMUSHORT     (ushort)
     char9       DMUCHAR      (uchar)
 (a) bool9_a     DMBOOL       (enum: 1)
 (b) bool9_b     DMBOOL       (enum: 1)
 (c) bool9_c     DMBOOL       (enum: 1)
 (d) bool9_d     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   TMP9OSPS
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             key9_a            |             key9_b            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |             key9_c            |*******************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 8 |                             long9                             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |            short9_a           |            short9_b           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |            short9_c           |            short9_d           |
   |---------------+---------------+---------------+---------------|
   |               | | | | |                                       |
20 |     char9     |a|b|c|d|***************************************|
   |---------------+---------------+---------------+---------------|
      ( 24 bytes )
```

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## 4. Population rules for RLtmp9osps

### Relation Description

RLtmp9osps is designated for the 5E9(1) and OSPS fast feature group. RLtmp9osps has been allocated for any of the capabilities or OSPS fast features in 5E13.

**Attribute:**
key9_a
**Fullname:**
first key
**Attribute Description:**
Unknown.

**Attribute:**
key9_b
**Fullname:**
second key
**Attribute Description:**
Unknown.

**Attribute:**
key9_c
**Fullname:**
third key
**Attribute Description:**
Unknown.

**Attribute:**
long9
**Fullname:**
unsigned long attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short9_a
**Fullname:**
first unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short9_b
**Fullname:**
second unsigned short attribute.
**Attribute Description:**

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Unknown.

**Attribute:**
short9_c
**Fullname:**
third unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
short9_d
**Fullname:**
fourth unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
char9
**Fullname:**
unsigned char attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool9_a
**Fullname:**
first boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool9_b
**Fullname:**
second boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool9_c
**Fullname:**
third boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
bool9_d

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**Fullname:**
fourth boolean attribute.
**Attribute Description:**
Unknown.

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# TMPAOSPS

## 1. Description

This placeholder relation is use by the 5E9(1) post RDL emergencies. This relation will have a distribution of Fixed Group (FG), with grp_type of GPD_OSPS, and a grp_id of 4.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
TMPAOSPS    relid = 2043  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     keya_a      DMUSHORT     (ushort) <--- key
     keya_b      DMUSHORT     (ushort) <--- key
     keya_c      DMUSHORT     (ushort) <--- key
     longa       DMHEX32      (ulong)
     shorta_a    DMUSHORT     (ushort)
     shorta_b    DMUSHORT     (ushort)
     shorta_c    DMUSHORT     (ushort)
     shorta_d    DMUSHORT     (ushort)
     chara       DMUCHAR      (uchar)
 (a) boola_a     DMBOOL       (enum: 1)
 (b) boola_b     DMBOOL       (enum: 1)
 (c) boola_c     DMBOOL       (enum: 1)
 (d) boola_d     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   TMPAOSPS
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             keya_a            |             keya_b            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |             keya_c            |*******************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 8 |                             longa                             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |            shorta_a           |            shorta_b           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |            shorta_c           |            shorta_d           |
   |---------------+---------------+---------------+---------------|
   |               | | | | |                                       |
20 |     chara     |a|b|c|d|***************************************|
   |---------------+---------------+---------------+---------------|
      ( 24 bytes )
```

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## 4. Population rules for RLtmpaosps

### Relation Description

RLtmpaosps is to be used for OSPS special features.
RLtmpaosps has been allocated for any of the capabilities or
OSPS fast features in 5E13.

**Attribute:**
keya_a
**Fullname:**
first key attribute.
**Attribute Description:**
Unknown.

**Attribute:**
keya_b
**Fullname:**
second key attribute.
**Attribute Description:**
Unknown.

**Attribute:**
keya_c
**Fullname:**
third key attribute.
**Attribute Description:**
Unknown.

**Attribute:**
longa
**Fullname:**
long attribute.
**Attribute Description:**
Unused.

**Attribute:**
shorta_a
**Fullname:**
first short attribute.
**Attribute Description:**
Unused

**Attribute:**
shorta_b
**Fullname:**
second short attribute.
**Attribute Description:**

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Unused.

**Attribute:**
shorta_c
**Fullname:**
third short attribute.
**Attribute Description:**
Unused.

**Attribute:**
shorta_d
**Fullname:**
fourth short attribute.
**Attribute Description:**
Unused.

**Attribute:**
chara
**Fullname:**
character attribute.
**Attribute Description:**
Unused.

**Attribute:**
boola_a
**Fullname:**
first boolean attribute.
**Attribute Description:**
Unused.

**Attribute:**
boola_b
**Fullname:**
second boolean attribute.
**Attribute Description:**
Unused.

**Attribute:**
boola_c
**Fullname:**
third boolean attribute.
**Attribute Description:**
Unused.

**Attribute:**
boola_d

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**Fullname:**
fourth boolean attribute.
**Attribute Description:**
Unused.

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# TMPBOSPS

## 1. Description

This placeholder relation is use by the 5E9(1) post RDL emergencies. This relation will have a distribution of Fixed Group (FG), with grp_type of GPD_OSPS, and a grp_id of 4.

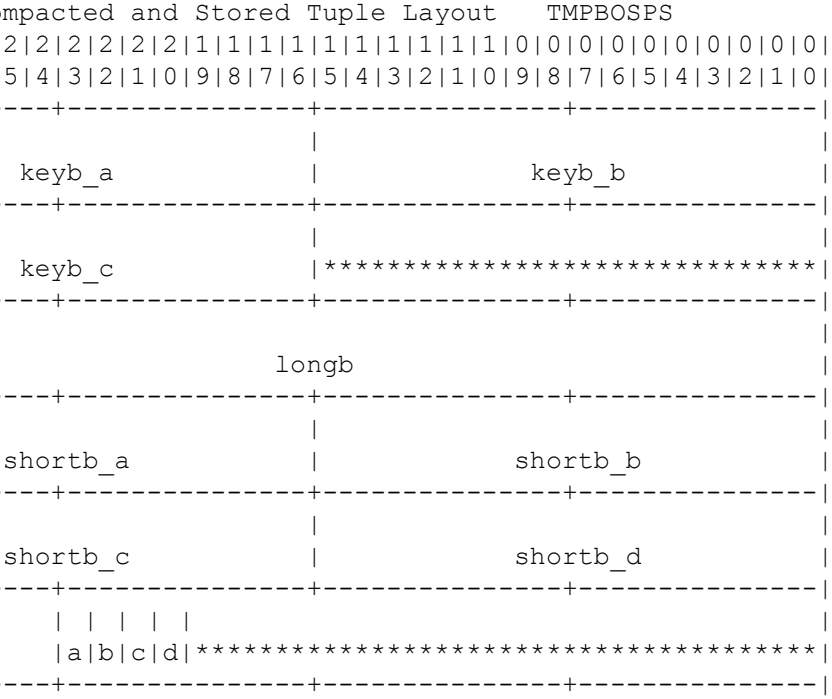
## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
TMPBOSPS    relid = 2046  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     keyb_a       DMUSHORT     (ushort) <--- key
     keyb_b       DMUSHORT     (ushort) <--- key
     keyb_c       DMUSHORT     (ushort) <--- key
     longb        DMHEX32      (ulong)
     shortb_a     DMUSHORT     (ushort)
     shortb_b     DMUSHORT     (ushort)
     shortb_c     DMUSHORT     (ushort)
     shortb_d     DMUSHORT     (ushort)
     charb        DMUCHAR      (uchar)
 (a) boolb_a      DMBOOL       (enum: 1)
 (b) boolb_b      DMBOOL       (enum: 1)
 (c) boolb_c      DMBOOL       (enum: 1)
 (d) boolb_d      DMBOOL       (enum: 1)
```

User, Compacted and Stored Tuple Layout TMPBOSPS

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( 24 bytes )

## 4. Population rules for RLtmpbosps

### Relation Description

RLtmpbosps is designated for OSPS fast feature group RLtmpbosps has been allocated for any of the capabilities or OSPS fast features in 5E13.

**Attribute:**
keyb_a
**Fullname:**
first key attribute.
**Attribute Description:**
Unknown.

**Attribute:**
keyb_b
**Fullname:**
second key attribute.
**Attribute Description:**
Unknown.

**Attribute:**
keyb_c
**Fullname:**
third key attribute.
**Attribute Description:**
Unknown.

**Attribute:**
longb
**Fullname:**
unsigned long attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shortb_a
**Fullname:**
unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shortb_b
**Fullname:**

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second unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shortb_c
**Fullname:**
third unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shortb_d
**Fullname:**
fourth unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
charb
**Fullname:**
unsigned char attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolb_a
**Fullname:**
first boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolb_b
**Fullname:**
second boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolb_c
**Fullname:**
third boolean attribute.
**Attribute Description:**
Unknown.

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**Attribute:**
boolb_d
**Fullname:**
fourth boolean attribute.
**Attribute Description:**
Unknown.

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# TMPCOSPS

## 1. Description

Placeholder relation for use by RDL emergencies. This relation will have a distribution of Fixed Group (FG), with grp_type of GPD_OSPS, and a grp_id of 4.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
TMPCOSPS    relid = 2014  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL


     keyc_a      DMUSHORT     (ushort)  <--- key
     keyc_b      DMUSHORT     (ushort)  <--- key
     keyc_c      DMUSHORT     (ushort)  <--- key
     longc       DMHEX32      (ulong)
     shortc_a    DMUSHORT     (ushort)
     shortc_b    DMUSHORT     (ushort)
     shortc_c    DMUSHORT     (ushort)
     shortc_d    DMUSHORT     (ushort)
     charc       DMUCHAR      (uchar)
(a)  boolc_a     DMBOOL       (enum: 1)
(b)  boolc_b     DMBOOL       (enum: 1)
(c)  boolc_c     DMBOOL       (enum: 1)
(d)  boolc_d     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   TMPCOSPS
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             keyc_a            |             keyc_b            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |             keyc_c            |*******************************|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 8 |                             longc                             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |            shortc_a           |            shortc_b           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |            shortc_c           |            shortc_d           |
   |---------------+---------------+---------------+---------------|
   |               | | | | |                                       |
20 |     charc     |a|b|c|d|***************************************|
```

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```
|---------------+---------------+---------------+---------------|
   ( 24 bytes )
```

## 4. Population rules for RLtmpcosps

### Relation Description

RLtmpcosps is designated for the 5E9(1) and OSPS fast feature group.

RLtmpcosps is allocated for any of the OSPS fast features.

**Attribute:**
keyc_a
**Fullname:**
first key
**Attribute Description:**
Unknown.

**Attribute:**
keyc_b
**Fullname:**
second key
**Attribute Description:**
Unknown

**Attribute:**
keyc_c
**Fullname:**
third key
**Attribute Description:**
Unknown.

**Attribute:**
longc
**Fullname:**
unsigned long attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shortc_a
**Fullname:**
first unsigned short attribute.
**Attribute Description:**
Unknown.

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**Attribute:**
shortc_b
**Fullname:**
second unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shortc_c
**Fullname:**
third unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shortc_d
**Fullname:**
fourth unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
charc
**Fullname:**
unsigned char attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolc_a
**Fullname:**
first boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolc_b
**Fullname:**
second boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolc_c
**Fullname:**
third boolean attribute.
**Attribute Description:**

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Unknown.

**Attribute:**
boolc_d
**Fullname:**
fourth boolean attribute.
**Attribute Description:**
Unknown.

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# TMPDOSPS

## 1. Description

Placeholder relation for use by 5E10(1) post RDL emergencies. This relation will have a distribution of FG (fixed group), with grp_type of GPD_OSPS, and a grp_id of 4.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
TMPDOSPS    relid = 2185  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     keyd_a      DMUSHORT     (ushort)    <--- key
     keyd_b      DMUSHORT     (ushort)    <--- key
     keyd_c      DMUSHORT     (ushort)    <--- key
     keyd_d      DMUSHORT     (ushort)    <--- key
     longd       DMHEX32      (ulong)
     shortd_a    DMUSHORT     (ushort)
     shortd_b    DMUSHORT     (ushort)
     shortd_c    DMUSHORT     (ushort)
     shortd_d    DMUSHORT     (ushort)
     shortd_e    DMUSHORT     (ushort)
     chard       DMUCHAR      (uchar)
 (a) boold_a     DMBOOL       (enum: 1)
 (b) boold_b     DMBOOL       (enum: 1)
 (c) boold_c     DMBOOL       (enum: 1)
 (d) boold_d     DMBOOL       (enum: 1)
 (e) boold_e     DMBOOL       (enum: 1)
 (f) boold_f     DMBOOL       (enum: 1)
 (g) boold_g     DMBOOL       (enum: 1)
 (h) boold_h     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   TMPDOSPS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             keyd_a            |             keyd_b            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             keyd_c            |             keyd_d            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |                            longd                              |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |            shortd_a           |            shortd_b           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
```

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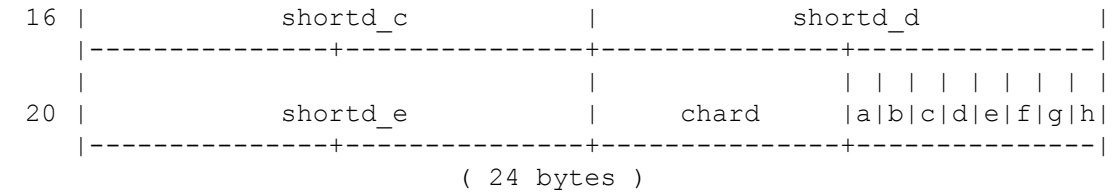


## 4. Population rules for RLtmpdosps

### Relation Description

This relation is designated for the 5E10(1) and OSPS fast feature group. and has been re-allocated for any of the capabilities of 5E12(1) or OSPS fast feature.

**Attribute:**
keyd_a
**Fullname:**
first key
**Attribute Description:**
Unknown.

**Attribute:**
keyd_b
**Fullname:**
Second key.
**Attribute Description:**
Unknown.

**Attribute:**
keyd_c
**Fullname:**
Third key.
**Attribute Description:**
Unknown.

**Attribute:**
keyd_d
**Fullname:**
Fourth key.
**Attribute Description:**
Unknown.

**Attribute:**
longd
**Fullname:**
Unsigned long attribute.
**Attribute Description:**
Unknown.

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**Attribute:**
shortd_a
**Fullname:**
First unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shortd_b
**Fullname:**
Second unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shortd_c
**Fullname:**
Third unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shortd_d
**Fullname:**
Fourth unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
shortd_e
**Fullname:**
Fifth unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
chard
**Fullname:**
Unsigned char attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boold_a
**Fullname:**

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First boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boold_b
**Fullname:**
Second boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boold_c
**Fullname:**
Third boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boold_d
**Fullname:**
Fourth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boold_e
**Fullname:**
Fifth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boold_f
**Fullname:**
Sixth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boold_g
**Fullname:**
Seventh boolean attribute.
**Attribute Description:**
Unknown.

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**Attribute:**
boold_h
**Fullname:**
Eighth boolean attribute.
**Attribute Description:**
Unknown.

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# TMPEOSPS

## 1. Description

Placeholder relation for use by RDL emergencies. This relation will have a distribution of Fixed Group (FG), with grp_type of GPD_OSPS, and a grp_id of 4.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
TMPEOSPS    relid = 2186  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL


     keye_a      DMUSHORT     (ushort)  <--- key
     keye_b      DMUSHORT     (ushort)  <--- key
     keye_c      DMUSHORT     (ushort)  <--- key
     keye_d      DMUSHORT     (ushort)  <--- key
     longe       DMHEX32      (ulong)
     shorte_a    DMUSHORT     (ushort)
     shorte_b    DMUSHORT     (ushort)
     shorte_c    DMUSHORT     (ushort)
     shorte_d    DMUSHORT     (ushort)
     shorte_e    DMUSHORT     (ushort)
     chare       DMUCHAR      (uchar)
(a)  boole_a     DMBOOL       (enum: 1)
(b)  boole_b     DMBOOL       (enum: 1)
(c)  boole_c     DMBOOL       (enum: 1)
(d)  boole_d     DMBOOL       (enum: 1)
(e)  boole_e     DMBOOL       (enum: 1)
(f)  boole_f     DMBOOL       (enum: 1)
(g)  boole_g     DMBOOL       (enum: 1)
(h)  boole_h     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   TMPEOSPS
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |             keye_a            |             keye_b            |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |             keye_c            |             keye_d            |
   |---------------+---------------+---------------+---------------|
   |                                                               |
 8 |                             longe                             |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |            shorte_a           |            shorte_b           |
```

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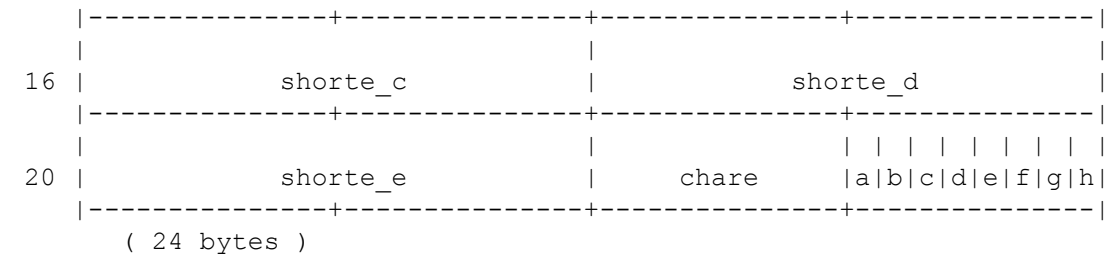


## 4. Population rules for RLtmpeosps

### Relation Description

RLtmpeosps is designated for the 5E10(1) and OSPS fast feature group.

This relation has been allocated for OSPS fast feature support.

**Attribute:**
keye_a
**Fullname:**
first key
**Attribute Description:**
Unknown.

**Attribute:**
keye_b
**Fullname:**
second key
**Attribute Description:**
Unknown.

**Attribute:**
keye_c
**Fullname:**
third key
**Attribute Description:**
Unknown.

**Attribute:**
keye_d
**Fullname:**
fourth key
**Attribute Description:**
Unknown.

**Attribute:**
longe
**Fullname:**

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unsigned long attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shorte_a
**Fullname:**
first unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shorte_b
**Fullname:**
second unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shorte_c
**Fullname:**
third unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shorte_d
**Fullname:**
fourth unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shorte_e
**Fullname:**
fifth unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
chare
**Fullname:**
unsigned char attribute.
**Attribute Description:**
Unknown.

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**Attribute:**
boole_a
**Fullname:**
first boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boole_b
**Fullname:**
second boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boole_c
**Fullname:**
third boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boole_d
**Fullname:**
fourth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boole_e
**Fullname:**
fifth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boole_f
**Fullname:**
sixth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boole_g
**Fullname:**
seventh boolean attribute.
**Attribute Description:**

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Unknown.

**Attribute:**
boole_h
**Fullname:**
eighth boolean attribute.
**Attribute Description:**
Unknown.

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# TMPFOSPS

## 1. Description

This placeholder relation is use by the 5E10(1) post RDL emergencies. This relation will have a distribution of Fixed Group (FG), with grp_type of GPD_OSPS, and a grp_id of 4.

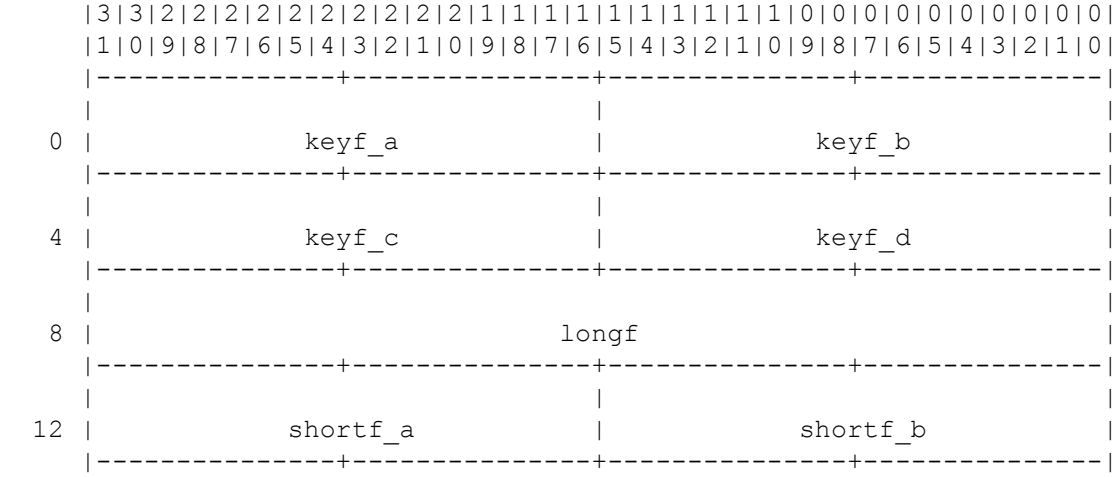
## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
TMPFOSPS    relid = 2187  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     keyf_a      DMUSHORT     (ushort) <--- key
     keyf_b      DMUSHORT     (ushort) <--- key
     keyf_c      DMUSHORT     (ushort) <--- key
     keyf_d      DMUSHORT     (ushort) <--- key
     longf       DMHEX32      (ulong)
     shortf_a    DMUSHORT     (ushort)
     shortf_b    DMUSHORT     (ushort)
     shortf_c    DMUSHORT     (ushort)
     shortf_d    DMUSHORT     (ushort)
     shortf_e    DMUSHORT     (ushort)
     charf       DMUCHAR      (uchar)
 (a) boolf_a     DMBOOL       (enum: 1)
 (b) boolf_b     DMBOOL       (enum: 1)
 (c) boolf_c     DMBOOL       (enum: 1)
 (d) boolf_d     DMBOOL       (enum: 1)
 (e) boolf_e     DMBOOL       (enum: 1)
 (f) boolf_f     DMBOOL       (enum: 1)
 (g) boolf_g     DMBOOL       (enum: 1)
 (h) boolf_h     DMBOOL       (enum: 1)
```

User, Compacted and Stored Tuple Layout TMPFOSPS

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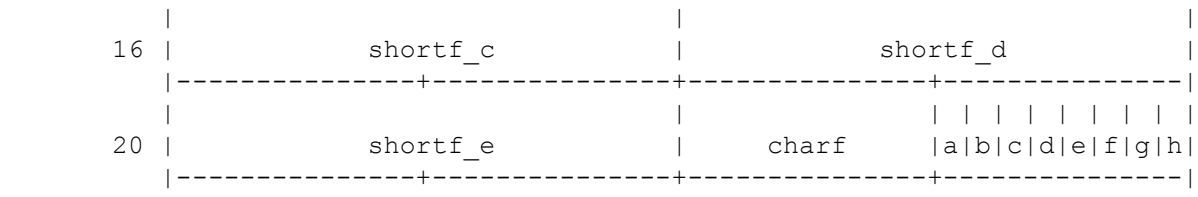


## 4. Population rules for RLtmpfosps

### Relation Description

RLtmpfosps is designated for the 5E10(1) and OSPS fast feature group. RLtmpfosps has been allocated for any of the capabilities of 5E10(1) or OSPS fast feature.
RLtmpfosps is also allocated for just in case for 5E10(1) and OSPS fast feature group.

**Attribute:**
keyf_a
**Fullname:**
first key
**Attribute Description:**
Unknown.

**Attribute:**
keyf_b
**Fullname:**
second key
**Attribute Description:**
Unknown.

**Attribute:**
keyf_c
**Fullname:**
third key
**Attribute Description:**
Unknown.

**Attribute:**
keyf_d
**Fullname:**
fourth key
**Attribute Description:**
Unknown.

**Attribute:**
longf
**Fullname:**

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unsigned long attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shortf_a
**Fullname:**
first unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shortf_b
**Fullname:**
second unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shortf_c
**Fullname:**
third unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shortf_d
**Fullname:**
fourth unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shortf_e
**Fullname:**
fifth unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
charf
**Fullname:**
unsigned char attribute.
**Attribute Description:**
Unknown.

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**Attribute:**
boolf_a
**Fullname:**
first boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolf_b
**Fullname:**
second boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolf_c
**Fullname:**
third boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolf_d
**Fullname:**
fourth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolf_e
**Fullname:**
fifth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolf_f
**Fullname:**
sixth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolf_g
**Fullname:**
seventh boolean attribute.
**Attribute Description:**

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Unknown.

**Attribute:**
boolf_h
**Fullname:**
eighth boolean attribute.
**Attribute Description:**
Unknown.

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# TMPGOSPS

## 1. Description

Placeholder relation for use by 5E10(1) post RDL emergencies. This relation will have a distribution of FG (fixed group), with grp_type of GPD_OSPS, and a grp_id of 4.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
TMPGOSPS    relid = 2188  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     keyg_a      DMUSHORT     (ushort)    <--- key
     keyg_b      DMUSHORT     (ushort)    <--- key
     keyg_c      DMUSHORT     (ushort)    <--- key
     keyg_d      DMUSHORT     (ushort)    <--- key
     longg       DMHEX32      (ulong)
     shortg_a    DMUSHORT     (ushort)
     shortg_b    DMUSHORT     (ushort)
     shortg_c    DMUSHORT     (ushort)
     shortg_d    DMUSHORT     (ushort)
     shortg_e    DMUSHORT     (ushort)
     charg       DMUCHAR      (uchar)
 (a) boolg_a     DMBOOL       (enum: 1)
 (b) boolg_b     DMBOOL       (enum: 1)
 (c) boolg_c     DMBOOL       (enum: 1)
 (d) boolg_d     DMBOOL       (enum: 1)
 (e) boolg_e     DMBOOL       (enum: 1)
 (f) boolg_f     DMBOOL       (enum: 1)
 (g) boolg_g     DMBOOL       (enum: 1)
 (h) boolg_h     DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   TMPGOSPS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             keyg_a            |             keyg_b            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             keyg_c            |             keyg_d            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |                            longg                              |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |            shortg_a           |            shortg_b           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
```

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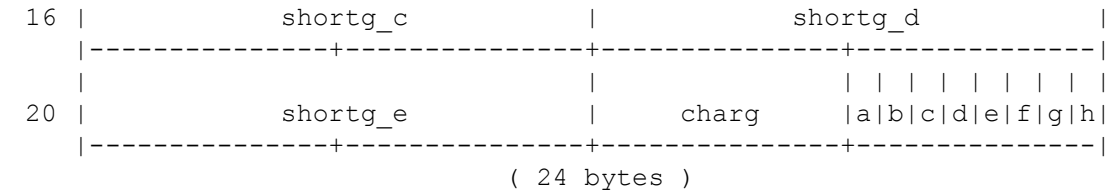


## 4. Population rules for RLtmpgosps

### Relation Description

This relation has been allocated for any of the capabilities of 5E10(1) or OSPS fast feature.

**Attribute:**
keyg_a
**Fullname:**
First key.
**Attribute Description:**
Unknown.

**Attribute:**
keyg_b
**Fullname:**
Second key..
**Attribute Description:**
Unknown.

**Attribute:**
keyg_c
**Fullname:**
Third key.
**Attribute Description:**
Unknown.

**Attribute:**
keyg_d
**Fullname:**
Fourth key.
**Attribute Description:**
Unknown.

**Attribute:**
longg
**Fullname:**
Unsigned long attribute.
**Attribute Description:**
Unknown.

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**Attribute:**
shortg_a
**Fullname:**
First unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shortg_b
**Fullname:**
Second unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
shortg_c
**Fullname:**
Third unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
shortg_d
**Fullname:**
Fourth unsigned short attribute...
**Attribute Description:**
Unknown.

**Attribute:**
shortg_e
**Fullname:**
Fifth unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
charg
**Fullname:**
Unsigned char attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolg_a
**Fullname:**
First boolean attribute.

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**Attribute Description:**
Unknown.

**Attribute:**
boolg_b
**Fullname:**
Second boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolg_c
**Fullname:**
Third boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolg_d
**Fullname:**
Fourth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolg_e
**Fullname:**
Fifth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolg_f
**Fullname:**
Sixth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolg_g
**Fullname:**
Seventh boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**

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boolg_h

**Fullname:**

Eighth boolean attribute.

**Attribute Description:**

Unknown.

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# TMPHOSPS

## 1. Description

Placeholder relation for use by 5E10(1) post RDL emergencies. This relation will have a distribution of FG (fixed group), with grp_type of GPD_OSPS, and a grp_id of 4.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
TMPHOSPS    relid = 2189  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     keyh_a       DMUSHORT     (ushort)    <--- key
     keyh_b       DMUSHORT     (ushort)    <--- key
     keyh_c       DMUSHORT     (ushort)    <--- key
     keyh_d       DMUSHORT     (ushort)    <--- key
     longh        DMHEX32      (ulong)
     shorth_a     DMUSHORT     (ushort)
     shorth_b     DMUSHORT     (ushort)
     shorth_c     DMUSHORT     (ushort)
     shorth_d     DMUSHORT     (ushort)
     shorth_e     DMUSHORT     (ushort)
     charh        DMUCHAR      (uchar)
 (a) boolh_a      DMBOOL       (enum: 1)
 (b) boolh_b      DMBOOL       (enum: 1)
 (c) boolh_c      DMBOOL       (enum: 1)
 (d) boolh_d      DMBOOL       (enum: 1)
 (e) boolh_e      DMBOOL       (enum: 1)
 (f) boolh_f      DMBOOL       (enum: 1)
 (g) boolh_g      DMBOOL       (enum: 1)
 (h) boolh_h      DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   TMPHOSPS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             keyh_a            |             keyh_b            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |             keyh_c            |             keyh_d            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             longh                             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |            shorth_a           |            shorth_b           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
```

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```
 16 |            shorth_c           |            shorth_d           |
    |---------------+---------------+---------------+---------------|
    |                               |               | | | | | | | | |
 20 |            shorth_e           |     charh     |a|b|c|d|e|f|g|h|
    |---------------+---------------+---------------+---------------|
                              ( 24 bytes )
```

## 4. Population rules for RLtmphosps

### Relation Description

RLtmphosps has been allocated for any of the capabilities of 5E10(1) or OSPS fast feature.

**Attribute:**
keyh_a
**Fullname:**
First key.
**Attribute Description:**
Unknown.

**Attribute:**
keyh_b
**Fullname:**
Second key..
**Attribute Description:**
Unknown.

**Attribute:**
keyh_c
**Fullname:**
Third key..
**Attribute Description:**
Unknown.

**Attribute:**
keyh_d
**Fullname:**
Fourth key..
**Attribute Description:**
Unknown.

**Attribute:**
longh
**Fullname:**
Unsigned long attribute.
**Attribute Description:**
Unknown.

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**Attribute:**
shorth_a
**Fullname:**
First unsigned short attribute.
**Attribute Description:**
Unknown.

**Attribute:**
shorth_b
**Fullname:**
Second unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
shorth_c
**Fullname:**
Third unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
shorth_d
**Fullname:**
Fourth unsigned short attribute...
**Attribute Description:**
Unknown.

**Attribute:**
shorth_e
**Fullname:**
Fifth unsigned short attribute..
**Attribute Description:**
Unknown.

**Attribute:**
charh
**Fullname:**
Unsigned char attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolh_a
**Fullname:**
First boolean attribute.

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**Attribute Description:**
Unknown.

**Attribute:**
boolh_b
**Fullname:**
Second boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolh_c
**Fullname:**
Third boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolh_d
**Fullname:**
Fourth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolh_e
**Fullname:**
Fifth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolh_f
**Fullname:**
Sixth boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**
boolh_g
**Fullname:**
Seventh boolean attribute.
**Attribute Description:**
Unknown.

**Attribute:**

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boolh_h

**Fullname:**

Eighth boolean attribute.

**Attribute Description:**

Unknown.

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# TMSPIPE

## 1. Description

This relation defines the network side of a QLPS (Quad-Link Packet Switch) pipe. A pipe is a high bandwidth path from a QLPS QTMSLNK through the TMS to a given QLPS end-point. QLPS is used in the *5ESS*®-2000 switch for high bandwidth message transport.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 480 |
| expected tuples in relation | 64 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTATIC |
| trigger function | SMqtmspipe |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
TMSPIPE     relid = 2005  DBSTATIC   DBACC_HASH  DBPRAM    LR      NULL


 (a) qnetwork    DMQLNTWK     (enum: 2) <--- key
     qendpt      DMUNS8       (ushort: 8)       <--- key
 (b) pipetype    DMQLTYPE     (enum: 3)
     qtmslnk     DMTMSLNK     (short)
     hdchan      DMUNS8       (ushort: 8)
     tmslnk      DMTMSLNK     (short)
     num_slots   DMUNS8       (ushort: 8)
     slots0      DMHEX32      (ulong)
     slots1      DMHEX32      (ulong)
     slots2      DMHEX32      (ulong)
     slots3      DMHEX32      (ulong)
     slots4      DMHEX32      (ulong)
     slots5      DMHEX32      (ulong)
     slots6      DMHEX32      (ulong)
     slots7      DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout    TMSPIPE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |   |               |     |     |                               |
  0 | a |     qendpt    |  b  |*****|            qtmslnk            |
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  4 |     hdchan    |***************|             tmslnk            |
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  8 |   num_slots   |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
```

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```
 12 |                            slots0                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                            slots1                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                            slots2                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 24 |                            slots3                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 28 |                            slots4                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 32 |                            slots5                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 36 |                            slots6                             |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 40 |                            slots7                             |
    |---------------+---------------+---------------+---------------|
      ( 44 bytes )


domain alTMSPIPE  struct  (8 sub-attributes)
 (a)     qnetwork    .5.fake      (enum: 2)
         qendpt      .6.fake      (ushort)
 (b)     pipetype    .7.fake      (enum: 3)
         qtmslnk     short        (short)
         hdchan      .8.fake      (ushort)
         tmslnk      short        (short)
         num_slots   .9.fake      (ushort)
         slots       .10.fake     (array [ 8 ] of unsigned long )
                     Structure Layout     alTMSPIPE
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |   |               |     |     |                               |
  0 | a |     qendpt    |  b  |*****|            qtmslnk            |
    |---------------+---------------+---------------+---------------|
    |                |               |                               |
  4 |     hdchan     |***************|             tmslnk            |
    |---------------+---------------+---------------+---------------|
    |                |                                               |
  8 |   num_slots    |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                            slots                              |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
    |                                                               |
 16 |                            slots                              |
    | - - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - - |
```

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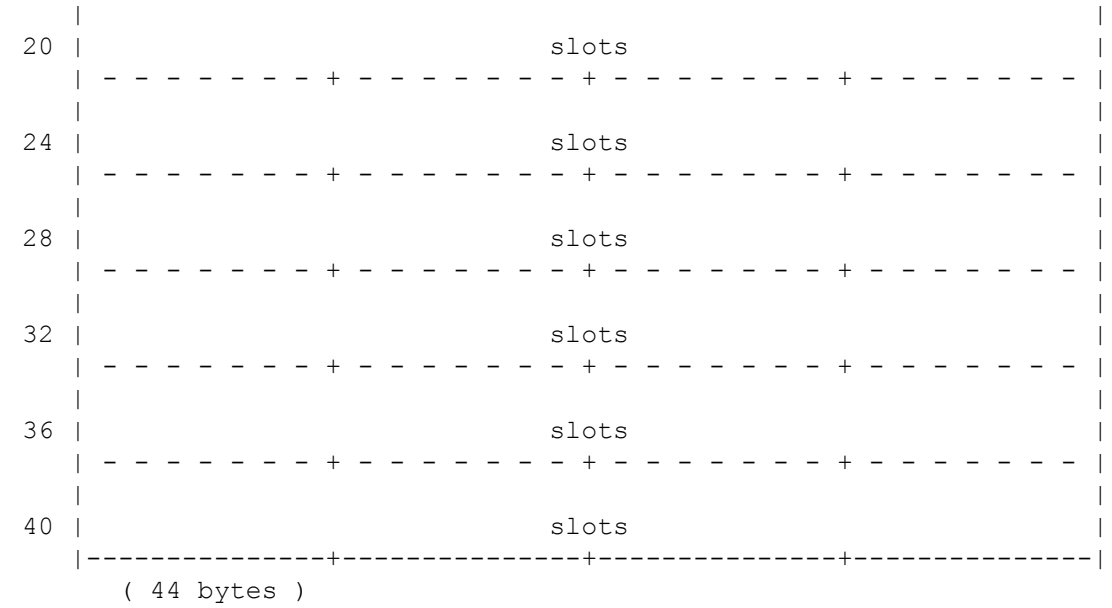


## 4. Population rules for RLtmspipe

### Relation Description

QLPS TMS Pipe relation

This relation defines the network side of a QLPS pipe. QLPS is an optional high bandwidth message transport being developed as part of Service Net-2000. A QLPS pipe is a path from a QLPS through the TMS, through the TSI to a QLPS endpoint. For release 1 of SN-2000, the QLPS endpoint in an SM-2000 is a Message Handler MH).

**Attribute:**
qnetwork
**Fullname:**
QLPS Network
**Attribute Description:**
This attribute identifies the QLPS network, which can only be 0 or 1 in release 1 of 5E-2000. Future releases may have networks 2 and 3, which must be allowed for.

**Attribute:**
qendpt
**Fullname:**
QLPS Endpoint
**Attribute Description:**
This attribute indicates the endpoint of the pipe being defined. In release 1, this will be a MH endpoint id (which is the same number as the SM-2000 where the MH resides) Note that QGLs,

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which are pipes from the QLPS to a QGP are hard-wired and are not defined in ODD).

**Attribute:**
pipetype
**Fullname:**
QLPS Pipe Type
**Attribute Description:**
This attribute specifies the type of QLPS pipe being defined. For release 1, the only allowable type of pipe is a MH pipe.

**Attribute:**
qtmslnk
**Fullname:**
QLPS QTMSLNK (TMS link)
**Attribute Description:**
This attribute defines the TMS link (called a QTMSLNK) at the QLPS end of the pipe. Each QLPS has 4 TMS links (QTMSLNKs) associated with it and this is one of those 4 QTMSLNKs for the QLPS network for which this pipe is being defined.

**Attribute:**
hdchan
**Fullname:**
QLPS HDLC Channel
**Attribute Description:**
This attribute defines the HDLC channel on the QTMSLNK (see attribute qtmslnk) that is to be used for this pipe. On each QTMSLNK, there are 30 HDLC channels available to be used for pipes.

**Attribute:**
tmslnk
**Fullname:**
TMS Link for QLPS Endpoint
**Attribute Description:**
This attribute specifies the TMS link that will be used for the path through the TMS to the destination endpoint MH's. The TMS link is to the SM-2000 where the MH reside. For SM-2000s used as LSMs and HSMs, there are actually 2 TMS links for each NCT2 link to an SM-2000. For a MH pipe, the lowest order number of the 2 TMS links to the primary NLI must be chosen for population in this attribute (tmslnk_0 in RLnli_lnk). For example, for an even NCT2 link the TMS links may be 4 and 6. In that case 4 would be populated in this relation.)

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**Attribute:**
num_slots
**Fullname:**
Number of Pipe Timeslots
**Attribute Description:**
For Service Net-2000 release 1, a MH pipe must have 14 timeslots.

**Attribute:**
slots[*]
**Fullname:**
Pipe Network Side Timeslots bit map
**Attribute Description:**
These 8 attributes, slots0 through slots7, make up a 256 bit map (8 words of 32 bits each) of timeslots assigned to a pipe. A bit is set in the map for each timeslot assigned to a pipe. Since the default for the number of timeslots is 14 in this release, there must be 14 bits set in this map.

These timeslots are the timeslots for which 2 way connections are made through the TMS for the pipe. These timeslots are assigned to a pipe both at the QTMSLNK (TMS link for the QLPS) and at the TMS link for the destination SM-2000.

**Defines:**
"db/DMqltype.h"

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# TMTSC

## 1. Description

DNs associated with TM test codes (test lines).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 50 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| application | GCRTG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| foldtype | DBGC31 |

## 3. Field Layout

```
TMTSC       relid = 19    DBSTATIC   DBACC_HASH  DBPRAM    LPFR    GCRTG
     dn          DMDN          (struct)    <--- key
         digcnt      DMDIGCNT     (uchar: 4)
         dn          DMDIGSTRING  (array [ 15 ] of char )
     tstcode     DMTCTSC       (enum: 6)
         User, Compacted and Stored Tuple Layout  TMTSC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+=============  dn =============+===============|
    |       |       |                                                 |
  0 | digcnt|*******|                       dn                        |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
    |                                                                 |
  4 |                               dn                                |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
    |                                                                 |
  8 |                               dn                                |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - - |
    |                                                                 |
 12 |                               dn                                |
    |===============+===============+===============+===============|
    |           |                                                     |
 16 |  tstcode  |*****************************************************|
    |---------------+---------------+---------------+---------------|
                                ( 20 bytes )
```

## 4. Population rules for RLtmtsc

### Relation Description

```
        TM test codes
        DNs associated with TM test codes (test lines).  This relation
        is used for access to toll trunk test lines from trunks where
        rlDNTRAN is not used to route calls.  To use this toll test
        line mechanism, a destination index must be chosen and placed
        in digit analysis to link the routing mechanism to a
        RLrt_routing.route_type = RTE_TM.  Tuples in this relation then
        discriminate the exact test line that corresponds to the digit
```

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pattern that was dialed. A tuple is needed for each digit pattern which may be dialed from a trunk to access a test line. Digit patterns that are supported in rlDN_TRAN with termclass equal to RTTC_TMTST for access to test lines should not appear in this relation.

**Attribute:**
dn
**Fullname:**
Directory number
**Attribute Description:**
Digits which correspond to test line numbers.

**Attribute:**
dn.digcnt
**Fullname:**
Digit count
**Attribute Description:**
Number of digits in the DN digit string.

**Attribute:**
dn.dn
**Fullname:**
Digit string
**Attribute Description:**
Digit string

**Attribute:**
tstcode
**Fullname:**
Test code
**Attribute Description:**
Enum value of the test line which is to be accessed when the caller dials digits shown in the dn attribute.

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# TN_DEF

## 1. Description

Information used for tone requests and handling by Generalized Tone Generation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |
| ks key store | DBNO |
| l1 length of subkey 1 | 9 |
| p1 position of subkey 1 | 7 |
| ignore key bits | 0-6 |

## 3. Field Layout

```
TN_DEF      relid = 85    DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL

    tone_name   DMPCSIGNAL   (enum) <--- key, not stored
    first_seg   DMSEG_NUM    (ushort)
    tone_dur    DMUCHAR      (uchar)
 (a) tone_type   DMTN_TYPE    (enum: 3)
 (b) dual_dir    DMBOOL       (enum: 1)
        User and Compacted Tuple Layout     TN_DEF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |           tone_name           |*******************************|
   |---------------+---------------+---------------+---------------|
   |                               |               |     | |       |
 4 |           first_seg           |    tone_dur   |  a  |b|*******|
   |---------------+---------------+---------------+---------------|
      ( 8 bytes )

    first_seg   DMSEG_NUM    (ushort)
    tone_dur    DMUCHAR      (uchar)
 (a) tone_type   DMTN_TYPE    (enum: 3)
 (b) dual_dir    DMBOOL       (enum: 1)
          Stored Tuple Layout   TN_DEF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |               |     | |       |
 0 |           first_seg           |    tone_dur   |  a  |b|*******|
   |---------------+---------------+---------------+---------------|
      ( 4 bytes )
```

## 4. Population rules for RLtn_def

There are no population rules for this relation.

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# TN_INDX

## 1. Description

This WCTX relation contains the TN HLR/VLR data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 3072 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution type | FP |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
TN_INDX     relid = 2216  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     tn          DMDN10_BCD   (struct)    <--- key
         dn0         DMBCD        (ushort: 4)
         dn1         DMBCD        (ushort: 4)
         dn2         DMBCD        (ushort: 4)
         dn3         DMBCD        (ushort: 4)
         dn4         DMBCD        (ushort: 4)
         dn5         DMBCD        (ushort: 4)
         dn6         DMBCD        (ushort: 4)
         dn7         DMBCD        (ushort: 4)
         dn8         DMBCD        (ushort: 4)
         dn9         DMBCD        (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
     pcs_idx     DMPCS_IDX    (ushort: 12)
         User, Compacted and Stored Tuple Layout    TN_INDX
     |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
     |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
     |===============+=============  tn =============+===============|
     |       |       |       |       |       |       |       |       |
   0 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
     |---------------+---------------+---------------+---------------|
     |       |       |       |                                       |
   4 |  dn8  |  dn9  | digcnt|***************************************|
     |===============+===============+===============+===============|
     |                       |                                       |
   8 |        pcs_idx        |***************************************|
     |---------------+---------------+---------------+---------------|
                               ( 12 bytes )
```

## 4. Population rules for RLtn_indx

### Relation Description

```
        This WCTX relation contains the TN HLR/VLR data.
        This relation  is used to index into the dynamic relation RLpcs_vlr.
```

**Attribute:**

```
        tn
```

**Fullname:**

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Telephone Number

**Attribute Description:**

It contains the Telephone Number.(TN).

**Attribute:**

tn.dn[*]

**Fullname:**

Telephone Number

**Attribute Description:**

Telephone Number.

**Attribute:**

tn.digcnt

**Fullname:**

Digit count

**Attribute Description:**

No of digits.

**Attribute:**

pcs_idx

**Fullname:**

Index into the vlr data

**Attribute Description:**

This relation contains subscriber data common to the Visitor Location Register (VLR)

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# ITN_SEGS

## 1. Description

This ODD relation contains the following per tone segments:
1) the waveform used for the tone segment,
2) the duration of the tone segment, and
3) the next tone segment number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |
| l1 length of subkey 1 | 10 |
| p1 position of subkey 1 | 6 |
| ignore key bits | 0-5 |

## 3. Field Layout

```
TN_SEGS     relid = 93    DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL

     segment     DMSEG_NUM    (ushort) <--- key
     log_loc     DMLOG_TONE   (enum)
     next_segment  DMSEG_NUM    (ushort)
     seg_duration  DMSEG_DUR    (ushort: 7)
         User, Compacted and Stored Tuple Layout    TN_SEGS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             segment           |            log_loc            |
    |---------------+---------------+---------------+---------------|
    |                               |              |                |
  4 |          next_segment         | seg_duration|****************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLtn_segs

There are no population rules for this relation.

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# TN_SSN

## 1. Description

CCS7 SCCP Subsystems

## 2. Data Dictionary Values

| | |
|---|---|
| maximum numbers of tuples | 32 |
| expected number of tuples | 1 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtrigfail |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
TN_SSN      relid = 2528  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     dpc          DMPT_CODE     (ulong: 24)
     ssn          DMUCHAR       (uchar)
     tn_indx      DMUNS5        (ushort: 5)    <--- key
     bk_tn        DMUNS5        (ushort: 5)
         User, Compacted and Stored Tuple Layout TN_SSN
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                               |               |
  0 |                      dpc                      |      ssn      |
    |---------------+---------------+---------------+---------------|
    |         |         |                                           |
  4 | tn_indx |  bk_tn  |*******************************************|
    |---------------+---------------+---------------+---------------|
                                 ( 8 bytes )
```

## 4. Population rules for RLtn_ssn

### Relation Description

Translation number to non-local Signaling Connection Control Part (SCCP) Subsystem Number (SSN)
This relation is needed by the Signaling Connection Control Part of the CCSNA7 transport in the Packet Switch Unit (PSU). This transport is used for sending direct signaling information in a Signaling System No. 7 network. An SCCP user is identified at a Point Code in the network by a SCCP Subsystem Number.
This relation is used to store the Destination Point Code (DPC) and the SCCP SSN of each non-local SCCP Subsystem in the network that this switch must maintain status of.
(The SCCP Subsystem Number of the ACP Subsystem local to this switch is stored in the global parameter Glacpssn.)
If there is a mate subsystem (that is,a backup) for this subsystem, then a translation number index is assigned and the tuple for that index is populated with the DPC and SSN of the mate subsystem.

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The bk_tn attribute in the two tuples must be populated to reflect that the two subsystems are mates (that is, backups for each other.) In each tuple, the bk_tn attribute is populated with the translation number index of the mate.

**Attribute:**
tn_indx
**Fullname:**
Translation number index
**Attribute Description:**
For each non-local SCCP Subsystem in the network that this switch must maintain status of, a translation number index assigned and the tuple for that index is populated with the Destination Point Code (DPC) and SubSystem Number (SSN) of that SCCP Subsystem.
This translation number index is generated by using the RLfacids relation (facid = 0, class = FAC_SCCP, subclass = SCL_NULL). (See the population rules for RLfacids for a description of the link list maintained for each class.)
Translation number indexes will be assigned sequentially in the range 1 through 31 and must never exceed 31, so checks must be made against the index retrieved using RLfacids since the RLfacids indexes are 16 bits.

**Attribute:**
dpc
**Fullname:**
Destination Point Code
**Attribute Description:**
The destination point code is an arbitrary number which is assigned to a node in the signaling network. This dpc must be a known point code in the RLnapcndx relation. See the population rules for the RLnapcndx relation to see how the dpc is formatted.

**Attribute:**
ssn
**Fullname:**
Subsystem Number
**Attribute Description:**
The Subsystem number is a number which is assigned to a SCCP user (that is, Subsystem) at a node in the signaling network. The following standard SCCP Subsystem numbers have been defined by ANSI(R):

1 = SCCP Management
2 = Telephone User Part
3 = ISDN user part
4 = OA&M

Network specific Subsystem numbers are normally assigned in descending order starting with 254.
In a network using SCCP to transport information to a Network

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Control Point (NCP) (BT-DDSN for example), there are only 3 SCCP subsystems that need to be populated at the ACP. They are:

1. the DSD application Subsystem at an NCP. Global title translation will be done to this Subsystem, so the tn_indx for this subsystem will be used in populating the RLgtt and RLfuncts relations when applicable.
2. the NSPS Subsystem at an NCP
3. the NDM subsystem at an NCP.

Subsystems at other ACPs in the network do not need to be populated since direct signaling messages are never sent to SCCP at another ACP.

**Attribute:**

bk_tn

**Fullname:**

Backup subsystem translation number

**Attribute Description:**

This is the translation number generated for the mate subsystem, if one exists. If there is no mate, then the value of bk_tn should be zero. If bk_tn is non-zero, there must be another tuple in this relation keyed by bk_tn. Furthermore, the value of bk_tn in the other tuple must be the same as tn_indx in this tuple, and a non-local subsystem can not be mated to itself.

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# TNT2REG

## 1. Description

This WCTX relation contains the Tenant Group to the Registration Area Identifier to data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution type | FR |
| relation type | DBSTATIC |
| ks key store | DBNO |
| permutation type | un_perm |

## 3. Field Layout

```
TNT2REG     relid = 2233  DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     tntgrpid    DMTGRPID     (ushort: 8)    <--- key, not stored
     reg1        DMREGAREA    (struct)
         wspid       DMWSPID      (ushort)
         regcode     DMUNS12      (ushort: 12)
     reg2        DMREGAREA    (struct)
         wspid       DMWSPID      (ushort)
         regcode     DMUNS12      (ushort: 12)
     reg3        DMREGAREA    (struct)
         wspid       DMWSPID      (ushort)
         regcode     DMUNS12      (ushort: 12)
     reg4        DMREGAREA    (struct)
         wspid       DMWSPID      (ushort)
         regcode     DMUNS12      (ushort: 12)
     reg5        DMREGAREA    (struct)
         wspid       DMWSPID      (ushort)
         regcode     DMUNS12      (ushort: 12)
     reg6        DMREGAREA    (struct)
         wspid       DMWSPID      (ushort)
         regcode     DMUNS12      (ushort: 12)
     reg7        DMREGAREA    (struct)
         wspid       DMWSPID      (ushort)
         regcode     DMUNS12      (ushort: 12)
     reg8        DMREGAREA    (struct)
         wspid       DMWSPID      (ushort)
         regcode     DMUNS12      (ushort: 12)
     reg9        DMREGAREA    (struct)
         wspid       DMWSPID      (ushort)
         regcode     DMUNS12      (ushort: 12)
     reg10       DMREGAREA    (struct)
         wspid       DMWSPID      (ushort)
         regcode     DMUNS12      (ushort: 12)
     reg11       DMREGAREA    (struct)
         wspid       DMWSPID      (ushort)
         regcode     DMUNS12      (ushort: 12)
     reg12       DMREGAREA    (struct)
         wspid       DMWSPID      (ushort)
         regcode     DMUNS12      (ushort: 12)
```

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```
    reg13       DMREGAREA    (struct)
        wspid       DMWSPID      (ushort)
        regcode     DMUNS12      (ushort: 12)
    reg14       DMREGAREA    (struct)
        wspid       DMWSPID      (ushort)
        regcode     DMUNS12      (ushort: 12)
    reg15       DMREGAREA    (struct)
        wspid       DMWSPID      (ushort)
        regcode     DMUNS12      (ushort: 12)
    reg16       DMREGAREA    (struct)
        wspid       DMWSPID      (ushort)
        regcode     DMUNS12      (ushort: 12)
        User and Compacted Tuple Layout    TNT2REG
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               |                                               |
 0 |    tntgrpid   |***********************************************|
   |===============+============  reg1 ============+===============|
   |                              |                       |       |
 4 |             wspid            |        regcode        |*******|
   |===============+============  reg2 ============+===============|
   |                              |                       |       |
 8 |             wspid            |        regcode        |*******|
   |===============+============  reg3 ============+===============|
   |                              |                       |       |
12 |             wspid            |        regcode        |*******|
   |===============+============  reg4 ============+===============|
   |                              |                       |       |
16 |             wspid            |        regcode        |*******|
   |===============+============  reg5 ============+===============|
   |                              |                       |       |
20 |             wspid            |        regcode        |*******|
   |===============+============  reg6 ============+===============|
   |                              |                       |       |
24 |             wspid            |        regcode        |*******|
   |===============+============  reg7 ============+===============|
   |                              |                       |       |
28 |             wspid            |        regcode        |*******|
   |===============+============  reg8 ============+===============|
   |                              |                       |       |
32 |             wspid            |        regcode        |*******|
   |===============+============  reg9 ============+===============|
   |                              |                       |       |
36 |             wspid            |        regcode        |*******|
   |===============+============ reg10 ============+===============|
   |                              |                       |       |
40 |             wspid            |        regcode        |*******|
   |===============+============ reg11 ============+===============|
   |                              |                       |       |
44 |             wspid            |        regcode        |*******|
   |===============+============ reg12 ============+===============|
   |                              |                       |       |
48 |             wspid            |        regcode        |*******|
```

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```
    |===============+============ reg13 ============+===============|
    |                               |                        |       |
 52 |              wspid            |        regcode         |*******|
    |===============+============ reg14 ============+===============|
    |                               |                        |       |
 56 |              wspid            |        regcode         |*******|
    |===============+============ reg15 ============+===============|
    |                               |                        |       |
 60 |              wspid            |        regcode         |*******|
    |===============+============ reg16 ============+===============|
    |                               |                        |       |
 64 |              wspid            |        regcode         |*******|
    |===============+===============+================+===============|
                              ( 68 bytes )
    reg1        DMREGAREA    (struct)
        wspid       DMWSPID      (ushort)
        regcode     DMUNS12      (ushort: 12)
    reg2        DMREGAREA    (struct)
        wspid       DMWSPID      (ushort)
        regcode     DMUNS12      (ushort: 12)
    reg3        DMREGAREA    (struct)
        wspid       DMWSPID      (ushort)
        regcode     DMUNS12      (ushort: 12)
    reg4        DMREGAREA    (struct)
        wspid       DMWSPID      (ushort)
        regcode     DMUNS12      (ushort: 12)
    reg5        DMREGAREA    (struct)
        wspid       DMWSPID      (ushort)
        regcode     DMUNS12      (ushort: 12)
    reg6        DMREGAREA    (struct)
        wspid       DMWSPID      (ushort)
        regcode     DMUNS12      (ushort: 12)
    reg7        DMREGAREA    (struct)
        wspid       DMWSPID      (ushort)
        regcode     DMUNS12      (ushort: 12)
    reg8        DMREGAREA    (struct)
        wspid       DMWSPID      (ushort)
        regcode     DMUNS12      (ushort: 12)
    reg9        DMREGAREA    (struct)
        wspid       DMWSPID      (ushort)
        regcode     DMUNS12      (ushort: 12)
    reg10       DMREGAREA    (struct)
        wspid       DMWSPID      (ushort)
        regcode     DMUNS12      (ushort: 12)
    reg11       DMREGAREA    (struct)
        wspid       DMWSPID      (ushort)
        regcode     DMUNS12      (ushort: 12)
    reg12       DMREGAREA    (struct)
        wspid       DMWSPID      (ushort)
        regcode     DMUNS12      (ushort: 12)
    reg13       DMREGAREA    (struct)
        wspid       DMWSPID      (ushort)
        regcode     DMUNS12      (ushort: 12)
    reg14       DMREGAREA    (struct)
```

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```
        wspid       DMWSPID      (ushort)
        regcode     DMUNS12      (ushort: 12)
    reg15       DMREGAREA    (struct)
        wspid       DMWSPID      (ushort)
        regcode     DMUNS12      (ushort: 12)
    reg16       DMREGAREA    (struct)
        wspid       DMWSPID      (ushort)
        regcode     DMUNS12      (ushort: 12)
          Stored Tuple Layout      TNT2REG
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |===============+============  reg1 ============+===============|
   |                               |                          |       |
 0 |             wspid             |        regcode           |*******|
   |===============+============  reg2 ============+===============|
   |                               |                          |       |
 4 |             wspid             |        regcode           |*******|
   |===============+============  reg3 ============+===============|
   |                               |                          |       |
 8 |             wspid             |        regcode           |*******|
   |===============+============  reg4 ============+===============|
   |                               |                          |       |
12 |             wspid             |        regcode           |*******|
   |===============+============  reg5 ============+===============|
   |                               |                          |       |
16 |             wspid             |        regcode           |*******|
   |===============+============  reg6 ============+===============|
   |                               |                          |       |
20 |             wspid             |        regcode           |*******|
   |===============+============  reg7 ============+===============|
   |                               |                          |       |
24 |             wspid             |        regcode           |*******|
   |===============+============  reg8 ============+===============|
   |                               |                          |       |
28 |             wspid             |        regcode           |*******|
   |===============+============  reg9 ============+===============|
   |                               |                          |       |
32 |             wspid             |        regcode           |*******|
   |===============+============ reg10 ============+===============|
   |                               |                          |       |
36 |             wspid             |        regcode           |*******|
   |===============+============ reg11 ============+===============|
   |                               |                          |       |
40 |             wspid             |        regcode           |*******|
   |===============+============ reg12 ============+===============|
   |                               |                          |       |
44 |             wspid             |        regcode           |*******|
   |===============+============ reg13 ============+===============|
   |                               |                          |       |
48 |             wspid             |        regcode           |*******|
   |===============+============ reg14 ============+===============|
   |                               |                          |       |
52 |             wspid             |        regcode           |*******|
   |===============+============ reg15 ============+===============|
```

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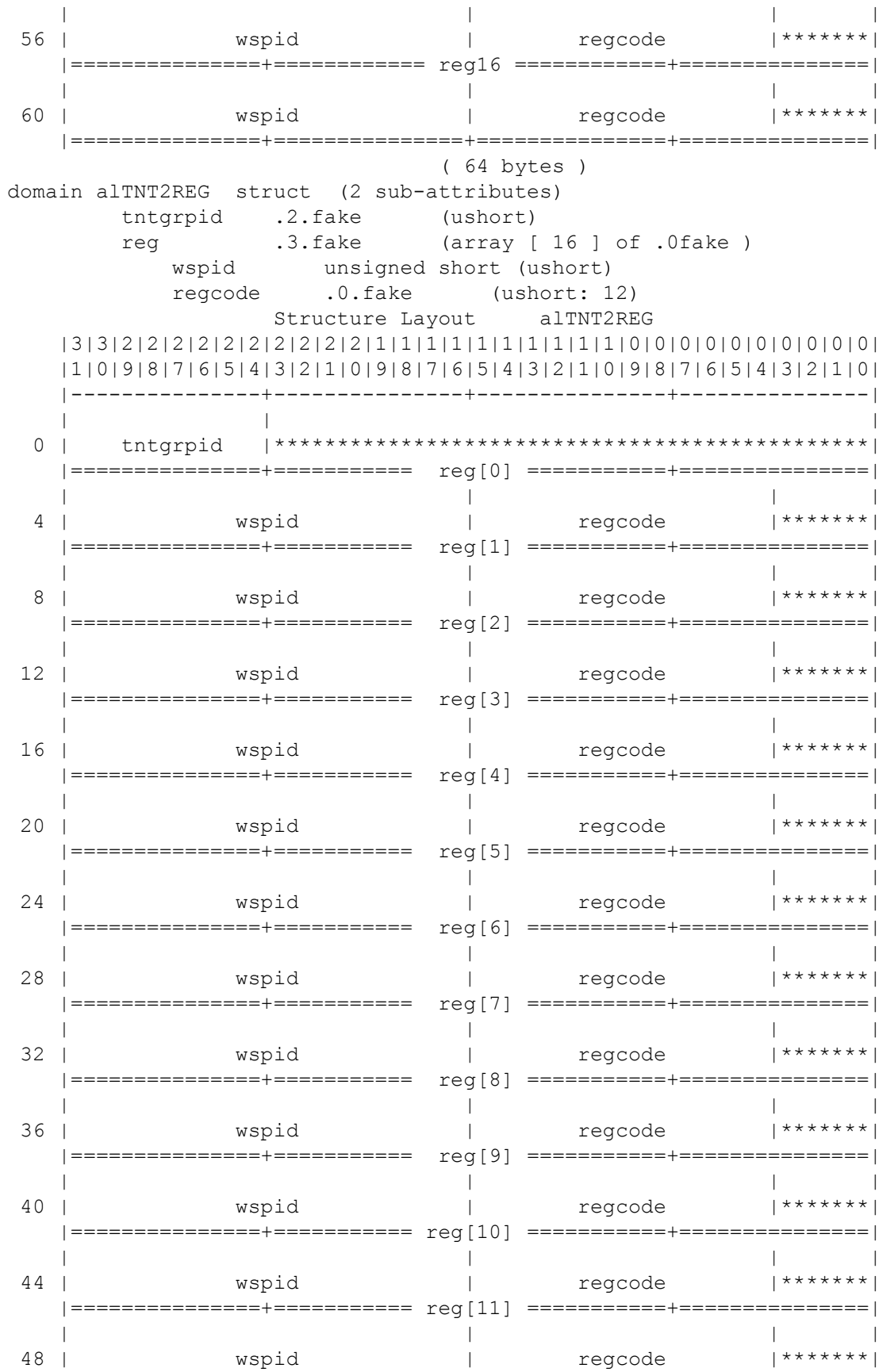
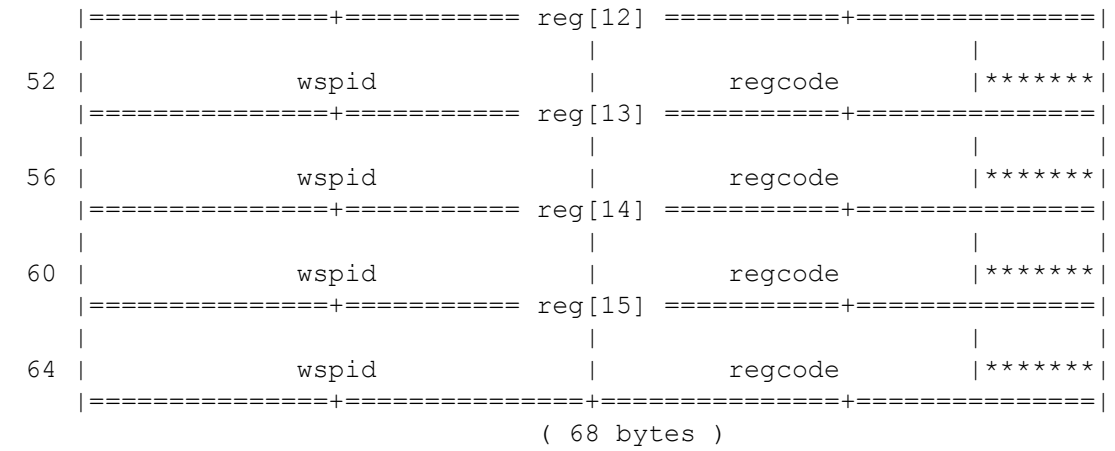

wspid
regcode
reg16
( 64 bytes )
domain alTNT2REG struct (2 sub-attributes)
tntgrpid .2.fake (ushort)
reg .3.fake (array [ 16 ] of .0fake )
wspid unsigned short (ushort)
regcode .0.fake (ushort: 12)
Structure Layout alTNT2REG
tntgrpid
reg[0]
reg[1]
reg[2]
reg[3]
reg[4]
reg[5]
reg[6]
reg[7]
reg[8]
reg[9]
reg[10]
reg[11]




## 4. Population rules for RLtnt2reg

### Relation Description

This WIRELESS Centrex (WCTX) relation contains the Tenant Group to the Registration Area Identifier data.

**Attribute:**
tntgrpid
**Fullname:**
Tenant Group Identifier
**Attribute Description:**
Identifies a group of subscribers within a WNC.

**Attribute:**
reg[*]
**Fullname:**
Registration Area Identifier
**Attribute Description:**
It uniquely identifies for each registration area.

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# TONETIME

## 1. Description

Indicates if a tone is timed and how long tone should be timed.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |
| ks key store | DBNO |
| head table size | 256 |
| data page size | 256 |
| page level | 2 |
| l1 length of subkey1 | 9 |
| p1 position of subkey1 | 7 |
| ignore key bits | 0-6 |

## 3. Field Layout

```
TONETIME    relid = 98    DBSTATIC   DBACC_CIND  DBPRAM    FR      NULL
     tonetype    DMPCSIGNAL   (enum)    <--- key, not stored
     time        DMSECOND     (ushort: 8)
 (a) timeind     DMBOOL       (enum: 1)
         User and Compacted Tuple Layout   TONETIME
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            tonetype           |*******************************|
    |---------------+---------------+---------------+---------------|
    |               | |                                             |
  4 |      time     |a|*********************************************|
    |---------------+---------------+---------------+---------------|
                                    ( 8 bytes )
     time        DMSECOND     (ushort: 8)
 (a) timeind     DMBOOL       (enum: 1)
           Stored Tuple Layout     TONETIME
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               | |                                             |
  0 |      time     |a|*********************************************|
    |---------------+---------------+---------------+---------------|
                                   ( 2 bytes )
```

## 4. Population rules for RLtonetime

### Relation Description

```
       This relation indicates if a tone is timed and how long tone should be timed
        For the attribute tonetype 5ODA only supports the following
        seven enumerations on the input form TNTYP:
                ROH
                REORDER
```

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```
        BUSY
        PRMPTON
        DSNROH
        HIGHTONE
        HIGH60
        HIGH120
    Default information for the following
    TONE TYPEs for each new office:
        TONE TYPE       TIMED?          HOW MANY SECONDS?
        BUSY              N
        HIGHTONE          N
        REORDER           N
        ROH               Y                    045
        HIGH60            N
        AUDIBLE           Y                    255
    For RLtonetime.tonetype=PCAUDIBLE, time may be either 0, showing
    that audible is not timed and may be played until the caller
    hangs up (possibly forever),
    or time may be nonzero thus limiting the time audible ringing tone
    is applied in an excessive call delay scenario.  It is recommended
    that a non-zero value of 255, the largest possible value for this
    field (4 min 15 sec), be used to limit the time audible ring may
    be applied to a network resource (e. g. an MF trunk).
    Recent change only seems to support this limited set of
    enumerations.
```

**Attribute:**
tonetype
**Fullname:**
Tone type.
**Attribute Description:**
Name of tone

**Attribute:**
timeind
**Fullname:**
Tone timing.
**Attribute Description:**
Is tone timed.

**Attribute:**
time
**Fullname:**
time
**Attribute Description:**
Number of seconds tone is timed.

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# TPR_CC

## 1. Description

Relation containing information about country code and corresponding carrier id to determine terminating point restriction. This relation is to have a distribution of FG (fixed group), with a grp_type of GPD_OSPS, and a grp_id of 3. The maximum number of tuples for this relation is 256. However, based on current customer practices, the average number of tuples should be 10 or less. This relation will be used by the 5E6 OSPS DIOR feature. Use of this relation for other purposes will require a boolean be added for the DIOR feature (plus additional booleans for the new features), and that DIOR code be modified to accomodate this change.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| foldtype | DBGC31 |

## 3. Field Layout

```
TPR_CC      relid = 1272  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     carr        DMBCARID     (ushort: 14)    <--- key
     cc          DMTCSCC      (ushort: 10)    <--- key
         User, Compacted and Stored Tuple Layout TPR_CC
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                             |   |                   |           |
  0 |            carr             |***|         cc        |***********|
    |---------------+---------------+---------------+---------------|
                               ( 4 bytes )
```

## 4. Population rules for RLtpr_cc

**Relation Description**

The relation RLtpr_cc specifies countries to which direct international origination (DIOR) calls are allowed to terminate.

**Attribute:**

cc

**Fullname:**

Terminating country code

**Attribute Description:**

This attribute is used to determine terminating point restrictions for a DIOR call using the terminating country code. If a tuple with the country code from the international forward number is found in this relation for the carrier identified by trunk group data, then the DIOR call is allowed.

**Attribute:**

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carr

**Fullname:**

Carrier providing DIOR service to the country specified by the attribute cc

**Attribute Description:**

This attribute is used to identify the DIOR service provider for calls placed to the country specified by the terminating country code attribute cc.

**Defines:**

"db/DMcarr_val.h"

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# TPR_NPA

## 1. Description

Table containing the NPA & NXX information to block call termination for the carrier "carr". This relation is to have a distribution of FR (fixed redundant).

This relation will be used by the 5E6 OSPS DIOR feature. Use of this relation for other purposes will require a boolean be added for the DIOR feature (plus additional booleans for the new features), and that DIOR code be modifiesd to accomodate this change.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 544 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
TPR_NPA     relid = 1273  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     carr        DMBCARID     (ushort: 14)    <--- key
 (a) aatostrmt   DMTPRTREAT   (enum: 2)
     line        DMUNS14      (ushort: 14)    <--- key
 (b) diortrmt    DMTPRTREAT   (enum: 2)
     npa         DMUNS10      (ushort: 10)    <--- key
     oaff1       DMUNS6       (ushort: 6)
     nxx         DMUNS10      (ushort: 10)    <--- key
 (c) aatlsostrmt  DMTPRTREAT   (enum: 2)
 (d) wirelesstrmt  DMTPRTREAT   (enum: 2)
 (e) oaff2       DMUNS2       (ushort: 2)
 (f) quietheartrmt  DMBOOL       (enum: 1)

         User, Compacted and Stored Tuple Layout    TPR_NPA
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |   |                           |   |
  0 |             carr              | a |             line          | b |
    |---------------+---------------+---------------+---------------|
    |                   |           |                     |   |   |   |
  4 |         npa       |   oaff1   |        nxx          | c | d | e |
    |---------------+---------------+---------------+---------------|
    | |                                                             |
  8 |f|*************************************************************|
    |---------------+---------------+---------------+---------------|
                              ( 12 bytes )
```

## 4. Population rules for RLtpr_npa

**Relation Description**

```
        Terminating Restrictions of NPA-NXXs
        This relation contains the terminating point restriction data
        for a DIOR, AATOS, AATLSOS, or wireless call with a domestic
        forward number.  If a tuple
```

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containing the NPA-NXX of the forward number is found, then the DIOR, AATOS, AATLSOS, or wireless call of the service provider carr are blocked.
This relation contains the information necessary to determine the terminating point restrictions for a DIOR call with a domestic forward number. If a tuple with NPA and/or NPANXX of the forward number is found in the chart, then the DIOR call is blocked for the carrier indicated by the carr value.

**Attribute:**
npa
**Fullname:**
Three digit NPA of a domestic forward number
**Attribute Description:**
If a tuple with NPA and/or NPA & NXX of the forward number is found, the DIOR, AATOS, AATLSOS, or wirelessn call is blocked.

**Attribute:**
nxx
**Fullname:**
Three digit NXX of a domestic forward number
**Attribute Description:**
If a tuple with NPA and/or NPA & NXX of the forward number is found, the DIOR, AATOS, AATLSOS, or wirelessn call is blocked.

**Attribute:**
carr
**Fullname:**
Carrier for the DIOR, AATOS, AATLSOS, or wireless call
**Attribute Description:**
Used to identify the TPR service provider/carrier for the call.

**Attribute:**
line
**Fullname:**
Line
**Attribute Description:**
U.S. Forward Number Line Number

**Attribute:**
diortrmt
**Fullname:**
Treatment for a DIOR call
**Attribute Description:**
Treatment when this is a DIOR call to this U.S. forward number (cast to DMtprtreat.G)

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**Attribute:**
aatostrmt
**Fullname:**
Treatment for an AATOS call
**Attribute Description:**
Treatment when this is a AATOS call to this U.S. forward number (cast to DMtprtreat.G)

**Attribute:**
aatlsostrmt
**Fullname:**
Treatment for an AATLSOS call
**Attribute Description:**
Treatment when this is an AATLSOS call to this U.S. forward number (cast to DMtprtreat.G)

**Attribute:**
wirelesstrmt
**Fullname:**
Treatment for a wireless call
**Attribute Description:**
Treatment when this is a wireless call to this U.S. forward number (cast to DMtprtreat.G)

**Attribute:**
quietheartrmt
**Fullname:**
Quiet Hear Treatment
**Attribute Description:**
This field is used for the Quiet Hear eligibility parameter used to control the application of Quiet Hear based on a domestic forward number as defined in the OSPS Terminating NPA NXX Restrictions Table.

**Attribute:**
oaff1
**Fullname:**
OA fast feature spare 1
**Attribute Description:**
spare

**Attribute:**
oaff2
**Fullname:**
Spare2
**Attribute Description:**
Spare field for future special features.

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**Defines:**

```
"db/DMcarr_val.h"
```

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# TPRINTL

## 1. Description

Table containing the information for screening call termination to the international forward number. This relation is to have a distribution of FR (fixed redundant). This relation will be used by the OSPS International Terminating Point Restrictions feature.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FR |
| relation type | DBSTATIC |

## 3. Field Layout

```
TPRINTL     relid = 2210  DBSTATIC   DBACC_HASH  DBPRAM    FR      NULL
     intldn      DMBCD_DN     (struct)    <--- key
         dn0         DMUNS4       (ushort: 4)
         dn1         DMUNS4       (ushort: 4)
         dn2         DMUNS4       (ushort: 4)
         dn3         DMUNS4       (ushort: 4)
         dn4         DMUNS4       (ushort: 4)
         dn5         DMUNS4       (ushort: 4)
         dn6         DMUNS4       (ushort: 4)
         dn7         DMUNS4       (ushort: 4)
         dn8         DMUNS4       (ushort: 4)
         dn9         DMUNS4       (ushort: 4)
         dn10        DMUNS4       (ushort: 4)
         dn11        DMUNS4       (ushort: 4)
         dn12        DMUNS4       (ushort: 4)
         dn13        DMUNS4       (ushort: 4)
         dn14        DMUNS4       (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
     oaff2       DMUSHORT     (ushort)
     carrier     DMBCARID     (ushort: 14)    <--- key
 (a) oaff3       DMMC_BOOL    (enum: 2)
     termcc      DMTCSCC      (ushort: 10)    <--- key
     oaff1       DMUNS6       (ushort: 6)
     oaff4       DMUNS8       (ushort: 8)
 (b) diortrmt    DMTPRTREAT   (enum: 2)
 (c) aatostrmt   DMTPRTREAT   (enum: 2)
 (d) aatlsostrmt  DMTPRTREAT   (enum: 2)
 (e) wirelesstrmt  DMTPRTREAT   (enum: 2)
 (f) quietheartrmt  DMBOOL       (enum: 1
)
         User, Compacted and Stored Tuple Layout    TPRINTL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+===========  intldn ===========+===============|
    |       |       |       |       |       |       |       |       |
  0 |  dn0  |  dn1  |  dn2  |  dn3  |  dn4  |  dn5  |  dn6  |  dn7  |
    |---------------+---------------+---------------+---------------|
    |       |       |       |       |       |       |       |       |
```

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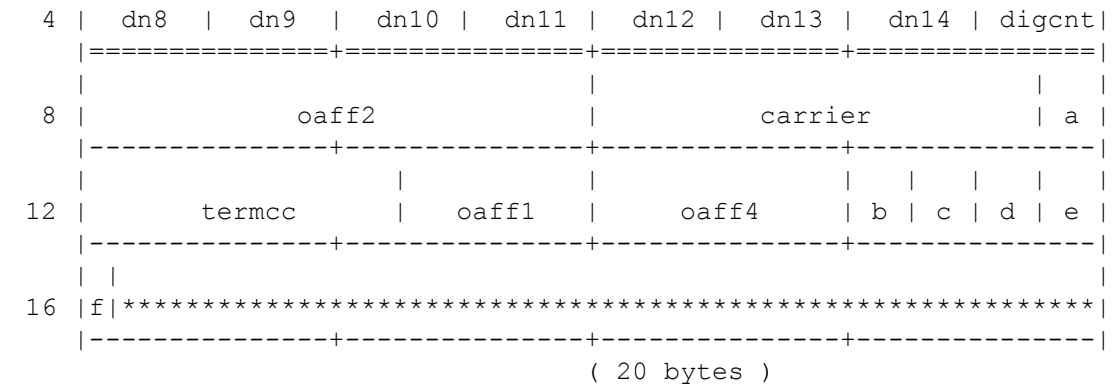


## 4. Population rules for RLtprintl

### Relation Description

This relation is being used by the International Terminating Point Restrictions (ITPR) feature starting in 5e10.

**Attribute:**
termcc
**Fullname:**
Terminating Country Code
**Attribute Description:**
1 - 3 digit terminating country code

**Attribute:**
oaff1
**Fullname:**
Spare 1
**Attribute Description:**
unsigned 6 spare

**Attribute:**
oaff2
**Fullname:**
Spare 2
**Attribute Description:**
unsigned short spare

**Attribute:**
intldn
**Fullname:**
Packed 15 Digits + Count Key
**Attribute Description:**
Packed 15 digits + count key of which a maximum of 14 digits may be used.

**Attribute:**

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intldn.dn0
**Fullname:**
Digit0 of DN
**Attribute Description:**
First digit of dn

**Attribute:**
intldn.dn1
**Fullname:**
Digit1 of DN
**Attribute Description:**
Second digit of dn

**Attribute:**
intldn.dn2
**Fullname:**
Digit2 of DN
**Attribute Description:**
Third digit of dn

**Attribute:**
intldn.dn3
**Fullname:**
Digit3 of DN
**Attribute Description:**
Fourth digit of dn

**Attribute:**
intldn.dn4
**Fullname:**
Digit4 of DN
**Attribute Description:**
Fifth digit of dn

**Attribute:**
intldn.dn5
**Fullname:**
Digit5 of DN
**Attribute Description:**
Sixth digit of dn

**Attribute:**
intldn.dn6
**Fullname:**
Digit6 of DN
**Attribute Description:**
Seventh digit of dn

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**Attribute:**
intldn.dn7
**Fullname:**
Digit7 of DN
**Attribute Description:**
Eighth digit of dn

**Attribute:**
intldn.dn8
**Fullname:**
Digit8 of DN
**Attribute Description:**
Ninth digit of dn

**Attribute:**
intldn.dn9
**Fullname:**
Digit9 of DN
**Attribute Description:**
Tenth digit of dn

**Attribute:**
intldn.dn10
**Fullname:**
Digit10 of DN
**Attribute Description:**
Eleventh digit of dn

**Attribute:**
intldn.dn11
**Fullname:**
Digit11 of DN
**Attribute Description:**
Twelfth digit of dn

**Attribute:**
intldn.dn12
**Fullname:**
Digit12 of DN
**Attribute Description:**
Thirteenth digit of dn - unused if termcc > 99

**Attribute:**
intldn.dn13
**Fullname:**

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Digit13 of DN
**Attribute Description:**
Fourteenth digit of dn - unused if termcc > 9

**Attribute:**
intldn.dn14
**Fullname:**
Digit14 of DN
**Attribute Description:**
Unused

**Attribute:**
intldn.digcnt
**Fullname:**
Digit Counter
**Attribute Description:**
This field holds the count of digits in the intldn.dn[*] array.

**Attribute:**
carrier
**Fullname:**
Carrier Identification code
**Attribute Description:**
Carrier Identification code

**Attribute:**
oaff3
**Fullname:**
Spare 3
**Attribute Description:**
tri-state boolean spare

**Attribute:**
diortrmt
**Fullname:**
DIOR Treatment
**Attribute Description:**
DIOR Treatment.

**Attribute:**
aatostrmt
**Fullname:**
AATOS Treatment
**Attribute Description:**
AATOS Treatment.

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**Attribute:**
aatlsostrmt
**Fullname:**
AATLSOS Treatment
**Attribute Description:**
AATLSOS Treatment.

**Attribute:**
wirelesstrmt
**Fullname:**
Wireless Treatment
**Attribute Description:**
Wireless Treatment.

**Attribute:**
quietheartrmt
**Fullname:**
Quiet Hear Treatment
**Attribute Description:**
This field is used for the Quiet Hear eligibility parameter used to control the application of Quiet Hear based on an international forward number as defined in the OSPS International Restrictions Table.

**Attribute:**
oaff4
**Fullname:**
Spare 4
**Attribute Description:**
unsigned 8 bit spare

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# TR8CONV

## 1. Description

contains information necessary to convert a TR303 RT back to a TR8 RT in the event of a catastrophic failure during the execution of the conversion procedure.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 32 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application type | RCMAP |
| relation type | DBSTATIC |
| permutation type | unperm |

## 3. Field Layout

```
TR8CONV     relid = 1869  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     module      DMMODULE     (ushort: 8)    <--- key
     idcu        DMIDCUNUM    (ushort: 6)    <--- key
     rtnum       DMRTNUM      (uchar: 7)    <--- key
     chan01      DMUCHAR      (uchar)
     chan02      DMUCHAR      (uchar)
     chan03      DMUCHAR      (uchar)
     chan04      DMUCHAR      (uchar)
     chan05      DMUCHAR      (uchar)
     chan06      DMUCHAR      (uchar)
     chan07      DMUCHAR      (uchar)
     chan08      DMUCHAR      (uchar)
     chan09      DMUCHAR      (uchar)
     chan10      DMUCHAR      (uchar)
     chan11      DMUCHAR      (uchar)
     chan12      DMUCHAR      (uchar)
     chan13      DMUCHAR      (uchar)
     chan14      DMUCHAR      (uchar)
     chan15      DMUCHAR      (uchar)
     chan16      DMUCHAR      (uchar)
     chan17      DMUCHAR      (uchar)
     chan18      DMUCHAR      (uchar)
     chan19      DMUCHAR      (uchar)
     chan20      DMUCHAR      (uchar)
     chan21      DMUCHAR      (uchar)
     chan22      DMUCHAR      (uchar)
     chan23      DMUCHAR      (uchar)
     chan24      DMUCHAR      (uchar)
     chan25      DMUCHAR      (uchar)
     chan26      DMUCHAR      (uchar)
     chan27      DMUCHAR      (uchar)
     chan28      DMUCHAR      (uchar)
     chan29      DMUCHAR      (uchar)
     chan30      DMUCHAR      (uchar)
     chan31      DMUCHAR      (uchar)
     chan32      DMUCHAR      (uchar)
     chan33      DMUCHAR      (uchar)
```

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```
chan34      DMUCHAR      (uchar)
chan35      DMUCHAR      (uchar)
chan36      DMUCHAR      (uchar)
chan37      DMUCHAR      (uchar)
chan38      DMUCHAR      (uchar)
chan39      DMUCHAR      (uchar)
chan40      DMUCHAR      (uchar)
chan41      DMUCHAR      (uchar)
chan42      DMUCHAR      (uchar)
chan43      DMUCHAR      (uchar)
chan44      DMUCHAR      (uchar)
chan45      DMUCHAR      (uchar)
chan46      DMUCHAR      (uchar)
chan47      DMUCHAR      (uchar)
chan48      DMUCHAR      (uchar)
lptype01    DMLPTYPE     (enum: 7)
lptype02    DMLPTYPE     (enum: 7)
lptype03    DMLPTYPE     (enum: 7)
lptype04    DMLPTYPE     (enum: 7)
lptype05    DMLPTYPE     (enum: 7)
lptype06    DMLPTYPE     (enum: 7)
lptype07    DMLPTYPE     (enum: 7)
lptype08    DMLPTYPE     (enum: 7)
lptype09    DMLPTYPE     (enum: 7)
lptype10    DMLPTYPE     (enum: 7)
lptype11    DMLPTYPE     (enum: 7)
lptype12    DMLPTYPE     (enum: 7)
lptype13    DMLPTYPE     (enum: 7)
lptype14    DMLPTYPE     (enum: 7)
lptype15    DMLPTYPE     (enum: 7)
lptype16    DMLPTYPE     (enum: 7)
lptype17    DMLPTYPE     (enum: 7)
lptype18    DMLPTYPE     (enum: 7)
lptype19    DMLPTYPE     (enum: 7)
lptype20    DMLPTYPE     (enum: 7)
lptype21    DMLPTYPE     (enum: 7)
lptype22    DMLPTYPE     (enum: 7)
lptype23    DMLPTYPE     (enum: 7)
lptype24    DMLPTYPE     (enum: 7)
lptype25    DMLPTYPE     (enum: 7)
lptype26    DMLPTYPE     (enum: 7)
lptype27    DMLPTYPE     (enum: 7)
lptype28    DMLPTYPE     (enum: 7)
lptype29    DMLPTYPE     (enum: 7)
lptype30    DMLPTYPE     (enum: 7)
lptype31    DMLPTYPE     (enum: 7)
lptype32    DMLPTYPE     (enum: 7)
lptype33    DMLPTYPE     (enum: 7)
lptype34    DMLPTYPE     (enum: 7)
lptype35    DMLPTYPE     (enum: 7)
lptype36    DMLPTYPE     (enum: 7)
lptype37    DMLPTYPE     (enum: 7)
lptype38    DMLPTYPE     (enum: 7)
lptype39    DMLPTYPE     (enum: 7)
```

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```
lptype40    DMLPTYPE     (enum: 7)
lptype41    DMLPTYPE     (enum: 7)
lptype42    DMLPTYPE     (enum: 7)
lptype43    DMLPTYPE     (enum: 7)
lptype44    DMLPTYPE     (enum: 7)
lptype45    DMLPTYPE     (enum: 7)
lptype46    DMLPTYPE     (enum: 7)
lptype47    DMLPTYPE     (enum: 7)
lptype48    DMLPTYPE     (enum: 7)
lptype49    DMLPTYPE     (enum: 7)
lptype50    DMLPTYPE     (enum: 7)
lptype51    DMLPTYPE     (enum: 7)
lptype52    DMLPTYPE     (enum: 7)
lptype53    DMLPTYPE     (enum: 7)
lptype54    DMLPTYPE     (enum: 7)
lptype55    DMLPTYPE     (enum: 7)
lptype56    DMLPTYPE     (enum: 7)
lptype57    DMLPTYPE     (enum: 7)
lptype58    DMLPTYPE     (enum: 7)
lptype59    DMLPTYPE     (enum: 7)
lptype60    DMLPTYPE     (enum: 7)
lptype61    DMLPTYPE     (enum: 7)
lptype62    DMLPTYPE     (enum: 7)
lptype63    DMLPTYPE     (enum: 7)
lptype64    DMLPTYPE     (enum: 7)
lptype65    DMLPTYPE     (enum: 7)
lptype66    DMLPTYPE     (enum: 7)
lptype67    DMLPTYPE     (enum: 7)
lptype68    DMLPTYPE     (enum: 7)
lptype69    DMLPTYPE     (enum: 7)
lptype70    DMLPTYPE     (enum: 7)
lptype71    DMLPTYPE     (enum: 7)
lptype72    DMLPTYPE     (enum: 7)
lptype73    DMLPTYPE     (enum: 7)
lptype74    DMLPTYPE     (enum: 7)
lptype75    DMLPTYPE     (enum: 7)
lptype76    DMLPTYPE     (enum: 7)
lptype77    DMLPTYPE     (enum: 7)
lptype78    DMLPTYPE     (enum: 7)
lptype79    DMLPTYPE     (enum: 7)
lptype80    DMLPTYPE     (enum: 7)
lptype81    DMLPTYPE     (enum: 7)
lptype82    DMLPTYPE     (enum: 7)
lptype83    DMLPTYPE     (enum: 7)
lptype84    DMLPTYPE     (enum: 7)
lptype85    DMLPTYPE     (enum: 7)
lptype86    DMLPTYPE     (enum: 7)
lptype87    DMLPTYPE     (enum: 7)
lptype88    DMLPTYPE     (enum: 7)
lptype89    DMLPTYPE     (enum: 7)
lptype90    DMLPTYPE     (enum: 7)
lptype91    DMLPTYPE     (enum: 7)
lptype92    DMLPTYPE     (enum: 7)
lptype93    DMLPTYPE     (enum: 7)
```

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```
lptype94    DMLPTYPE     (enum: 7)
lptype95    DMLPTYPE     (enum: 7)
lptype96    DMLPTYPE     (enum: 7)
eqstat_a    DMUCHAR      (uchar)
eqstat_b    DMUCHAR      (uchar)
eqstat_c    DMUCHAR      (uchar)
eqstat_d    DMUCHAR      (uchar)
cli_a       DMHEX32      (ulong)
cli_b       DMHEX32      (ulong)
cli_c       DMHEX32      (ulong)
cli_d       DMHEX32      (ulong)
mode_a      DMUCHAR      (uchar)
mode_b      DMUCHAR      (uchar)
mode_c      DMUCHAR      (uchar)
mode_d      DMUCHAR      (uchar)
```

User, Compacted and Stored Tuple Layout TR8CONV

| | 3 2 1 0 | 3 2 1 0 | 3 2 1 0 | 3 2 1 0 |
|---|---|---|---|---|
| 0 | module | idcu | ***rtnum* | chan01 |
| 4 | chan02 | chan03 | chan04 | chan05 |
| 8 | chan06 | chan07 | chan08 | chan09 |
| 12 | chan10 | chan11 | chan12 | chan13 |
| 16 | chan14 | chan15 | chan16 | chan17 |
| 20 | chan18 | chan19 | chan20 | chan21 |
| 24 | chan22 | chan23 | chan24 | chan25 |
| 28 | chan26 | chan27 | chan28 | chan29 |
| 32 | chan30 | chan31 | chan32 | chan33 |
| 36 | chan34 | chan35 | chan36 | chan37 |
| 40 | chan38 | chan39 | chan40 | chan41 |

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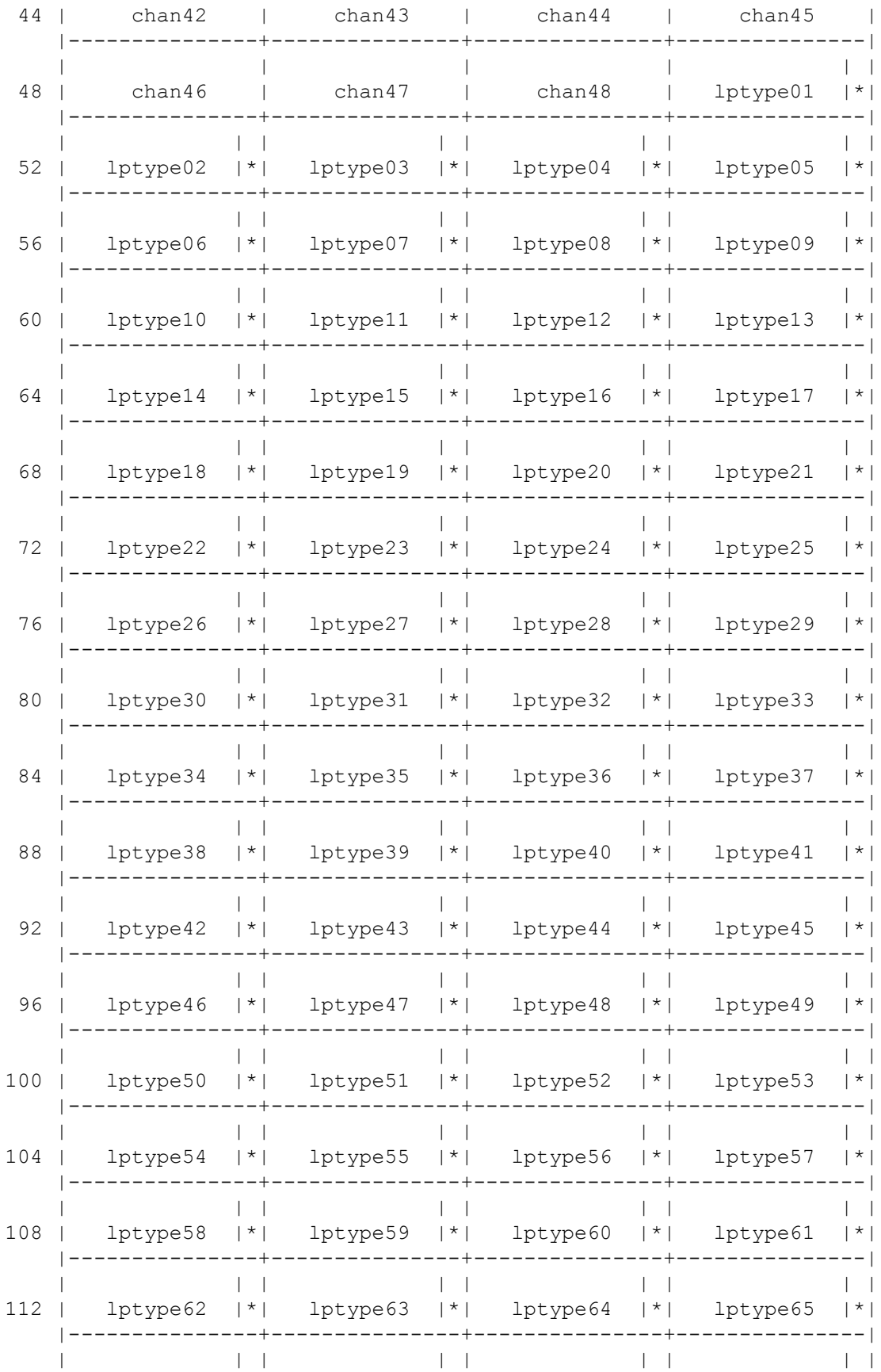


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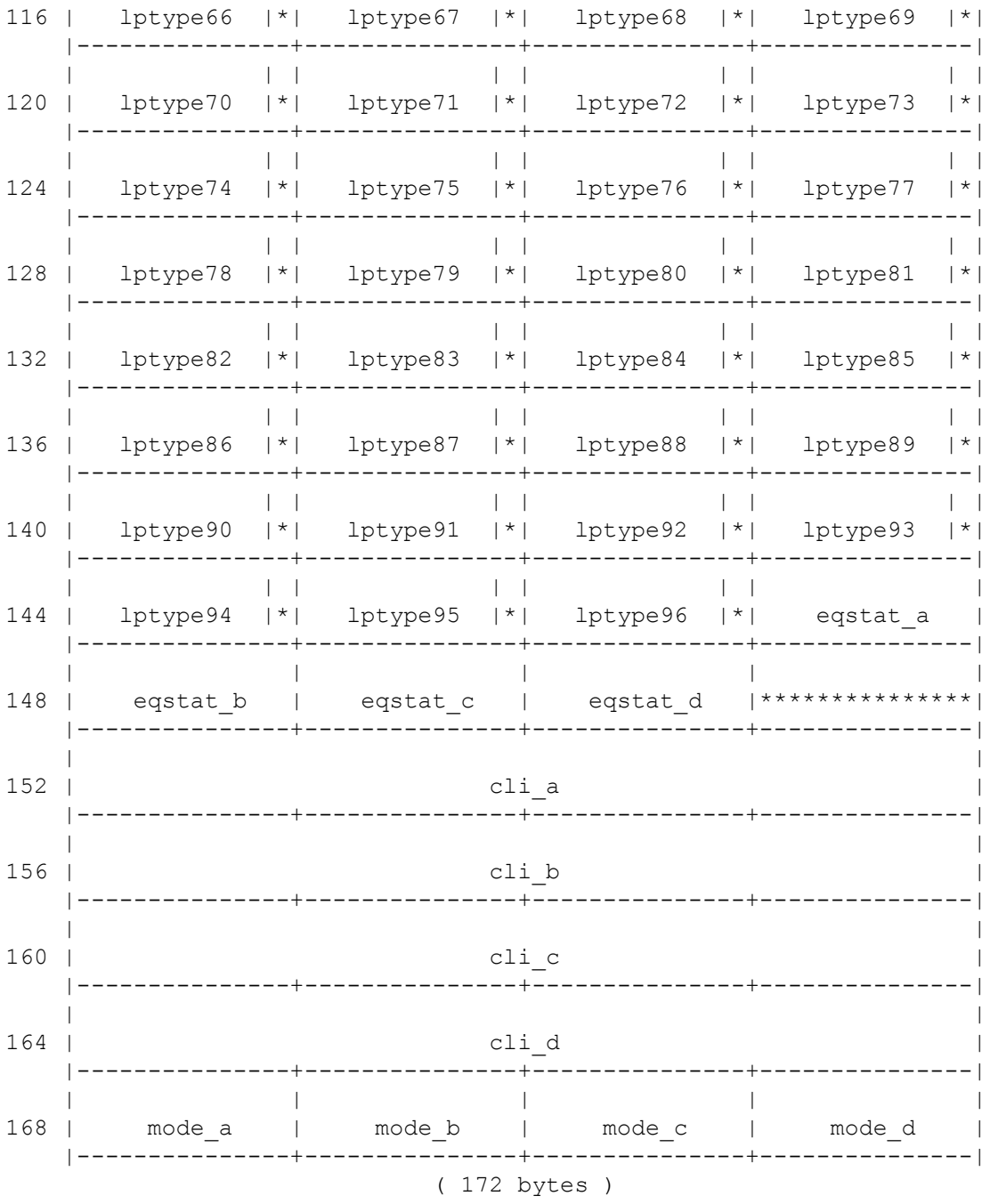


( 172 bytes )

## 4. Population rules for RLtr8conv

### Relation Description

**** Recent Change only relation ****
TR8 specific data saved for a short time after a conversion of an IDCU TR8 RT to an IDCU TR303 RT.
This relation contains information which is necessary to convert a TR8 RT on an IDCU back to a TR303 RT. This relation is only created during the conversion process from TR8 to TR303. It's purpose is to allow the TR8 to TR303 conversion to be reversed in the event of trouble

(that is, hardware that worked find in TR8 mode won't work in the TR303 mode).
Any RC update to this RT after the RT conversion will remove this tuple (and possibly the RLftth_sig tuple associated with this RT).

**Attribute:**
module
**Fullname:**
Module number on which IDCU resides
**Attribute Description:**
This is the module number on which the IDCU is located.

**Attribute:**
idcu
**Fullname:**
IDCU number
**Attribute Description:**
This attribute is the IDCU number on which the RT is located

**Attribute:**
rtnum
**Fullname:**
RT number relative to IDCU
**Attribute Description:**
This is the RT number relative to the IDCU, this is the external RT numbering.

**Attribute:**
chan[*]
**Fullname:**
Channel Units on RT
**Attribute Description:**
These attributes contain the channel unit type equipped on the RT. 'chan1' represents slots 01 and 02 while 'chan48' represents slots 95 and 96.
NOTE: This attribute should be of domain DMchanutyp. To make the alternate structure match, the domain was changed to be of domain DMuchar. Anyone using the rlTR8CONV structure should cast this attribute to DMchanutyp before using.

**Attribute:**
lptype[*]
**Fullname:**
Logical Port Type
**Attribute Description:**

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These are the logical port types associated with the 96 possible ports on the TR8 RT prior to the conversion.

**Attribute:**
eqstat_a
**Fullname:**
Equippage State for digroup A
**Attribute Description:**
This is the equippage state for digroup A of the TR8 RT before it was converted.
NOTE: This attribute should be of domain DMeqstat. To make the alternate structure match, the domain was changed to be of domain DMuchar. Anyone using the rlTR8CONV structure should cast this attribute to DMeqstat before using.

**Attribute:**
eqstat_b
**Fullname:**
Equippage State for digroup B
**Attribute Description:**
This is the equippage state for digroup B of the TR8 RT before it was converted.
NOTE: This attribute should be of domain DMeqstat. To make the alternate structure match, the domain was changed to be of domain DMuchar. Anyone using the rlTR8CONV structure should cast this attribute to DMeqstat before using.

**Attribute:**
eqstat_c
**Fullname:**
Equippage State for digroup C
**Attribute Description:**
This is the equippage state for digroup C of the TR8 RT before it was converted.
NOTE: This attribute should be of domain DMeqstat. To make the alternate structure match, the domain was changed to be of domain DMuchar. Anyone using the rlTR8CONV structure should cast this attribute to DMeqstat before using.

**Attribute:**
eqstat_d
**Fullname:**
Equippage State for digroup D
**Attribute Description:**
This is the equippage state for digroup D of the TR8 RT before it was converted.
NOTE: This attribute should be of domain DMeqstat. To make the alternate structure match, the domain was changed to be of domain DMuchar. Anyone using the rlTR8CONV structure should

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cast this attribute to DMeqstat before using.

**Attribute:**
cli_a
**Fullname:**
Change level indicator digroup A
**Attribute Description:**
This is the CLI for digroup A of the TR8 RT
before it was converted.

**Attribute:**
cli_b
**Fullname:**
Change Level Indicator for digroup B
**Attribute Description:**
This is the CLI for digroup B of the TR8 RT
before it was converted.

**Attribute:**
cli_c
**Fullname:**
Change Level Indicator for digroup C
**Attribute Description:**
This is the CLI for digroup C of the TR8 RT
before it was converted.

**Attribute:**
cli_d
**Fullname:**
Change Level Indicator for digroup D
**Attribute Description:**
This is the CLI for digroup D of the TR8 RT
before it was converted.

**Attribute:**
mode_a
**Fullname:**
Digroup Mode for digroup A
**Attribute Description:**
This is the mode for digroup A of the TR8 RT
before it was converted.
NOTE: This attribute should be of domain DMs96mode. To make
the alternate structure match, the domain was changed to be of
domain DMuchar. Anyone using the rlTR8CONV structure should
cast this attribute to DMs96mode before using.

**Attribute:**

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mode_b

**Fullname:**

Digroup Mode for digroup B

**Attribute Description:**

This is the mode for digroup B of the TR8 RT before it was converted.
NOTE: This attribute should be of domain DMs96mode. To make the alternate structure match, the domain was changed to be of domain DMuchar. Anyone using the rlTR8CONV structure should cast this attribute to DMs96mode before using.

**Attribute:**

mode_c

**Fullname:**

Digroup Mode for digroup C

**Attribute Description:**

This is the mode for digroup C of the TR8 RT before it was converted.
NOTE: This attribute should be of domain DMs96mode. To make the alternate structure match, the domain was changed to be of domain DMuchar. Anyone using the rlTR8CONV structure should cast this attribute to DMs96mode before using.

**Attribute:**

mode_d

**Fullname:**

Digroup Mode for digroup D

**Attribute Description:**

This is the mode for digroup D of the TR8 RT before it was converted.
NOTE: This attribute should be of domain DMs96mode. To make the alternate structure match, the domain was changed to be of domain DMuchar. Anyone using the rlTR8CONV structure should cast this attribute to DMs96mode before using.

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# TRAN_GP

## 1. Description

This relation provides for SCCP information about translation groups as to what incoming message will map to the corresponding translation group.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum number of tuples | 256 |
| expected number of tuples | 4 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | CCtran_gp |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
TRAN_GP     relid = 2529  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL

     psn_index   DMUNS12      (ushort: 12)
     gti         DMUNS4       (ushort: 4) <--- key
     tran_type   DMUNS8       (ushort: 8) <--- key
     st_octet    DMUNS8       (ushort: 8)
     nat_of_add  DMUNS7       (ushort: 7) <--- key
     tran_gp     DMUNS6       (ushort: 6)
     dest_net    DMUNS5       (ushort: 5)
         User, Compacted and Stored Tuple Layout    TRAN_GP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |       |               |               |
  0 |       psn_index       |  gti  |   tran_type   |    st_octet   |
    |---------------+---------------+---------------+---------------|
    |               |           |     |         |                   |
  4 |  nat_of_add   |  tran_gp  |*****| dest_net|*******************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population rules for RLtran_gp

### Relation Description

```
        SCCP Global Title Mapping Relation

        This relation specifies for what values in the SCCP message should
        map to the appropriate translation group and octet number
        Global Title Translation or the appropriate destination network
        number and octet number for Point Code Extraction.
```

**Attribute:**

```
        gti
```

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**Fullname:**
SCCP Global Title Indicator
**Attribute Description:**
This attribute is the Global Title Indicator expected in the incoming SCCP message.

**Attribute:**
tran_type
**Fullname:**
SCCP Global Title Translation / Translation Type
**Attribute Description:**
This attribute specifies the expected translation type in the SCCP incoming message.

**Attribute:**
nat_of_add
**Fullname:**
SCCP Global Title Indicator Nature of Address Indicator
**Attribute Description:**
This attribute specifies the expected nature of address values in the incoming SCCP message.

**Attribute:**
tran_gp
**Fullname:**
SCCP Translation Group
**Attribute Description:**
This attribute specifies the translation group for this SCCP service when performing SCCP Global Title Translation.

**Attribute:**
st_octet
**Fullname:**
Starting Octet Number
**Attribute Description:**
This attribute specifies the starting octet number when doing either Global Title Translation or Point Code Extraction.

For point code extraction, this is the starting octet and for the global title translation, this is the starting digit. Octets/digits are counted from the first octet in the address information field of the calling/called party address.

**Attribute:**
dest_net
**Fullname:**
Destination Network Number
**Attribute Description:**

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This attribute is used when doing Point code extraction to specify the destination network number. It will be set to 0 when performing Global Title Translation. If greater than 0, then Point Code extraction is being performed.

**Attribute:**

psn_index

**Fullname:**

Point Code/Subsystem Number/Network Number Index

**Attribute Description:**

This attribute specifies an index that represents a Destination Point Code, Subsystem Number and Network Number tuple.

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# TRCUPATH

## 1. Description

This relation describes the attributes of a TRCU path.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 184 |
| expected tuples in relation | 79 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LRFP |
| application | SWMTC |
| relation type | DBSTATIC |
| trigger function | SMtrcutrig |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| permutation type | perm |

## 3. Field Layout

```
TRCUPATH    relid = 2790  DBSTATIC   DBACC_CIND  DBPRAM    LRFP    SWMTC

     tcts         DMCTS         (ushort: 16)
     spare3       DMUSHORT      (ushort)
     spare2       DMUCHAR       (uchar)
     sm           DMMODULE      (ushort: 8) <--- key
     host_number  DMUNITNO      (ushort: 8)
     remote_number  DMUNITNO     (ushort: 8)
     type         DMUNITTYPE    (enum: 7)
     remote_type  DMUNITTYPE    (enum: 7)
     trcu_pi      DMRELLNKNO    (ushort: 6) <--- key
 (a) host_ckt     DMUNS2        (ushort: 2)
 (b) remote_ckt   DMUNS2        (ushort: 2)
     host_cli     DMHEX32       (ulong)
     remote_cli   DMHEX32       (ulong)
         User, Compacted and Stored Tuple Layout   TRCUPATH
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              tcts             |             spare3            |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |     spare2    |       sm      |  host_number  | remote_number |
    |---------------+---------------+---------------+---------------|
    |             | |             | |           |   |   |           |
  8 |     type    |*| remote_type |*|  trcu_pi  | a | b |***********|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                           host_cli                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                          remote_cli                           |
    |---------------+---------------+---------------+---------------|
```

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( 20 bytes )

## 4. Population rules for RLtrcupath

### Relation Description

Transmission Rate Converter Unit path relation.

This relation describes the attributes of a TRCU path.

**Attribute:**
sm
**Fullname:**
module number
**Attribute Description:**
This attribute uniquely identifies each module with which the office is equipped.

The domain (DMMODULE) of this attribute is unsigned 8 bits, therefore the maximum range is 0 to 255. However, actual range is smaller than that.

**Attribute:**
trcu_pi
**Fullname:**
TRCU path index
**Attribute Description:**
This is the TRCU path index for this SM. If this is a SM values of only 0 and 1 will be found.

For an EXM, for each pair of NLI, a pair of TRCU PATH are created where the trcu_pi correspond with the NLI numbers.

**Attribute:**
tcts
**Fullname:**
The control time slot used to communicate to the TRCU3.
**Attribute Description:**
The TCTS number is (from the SM's perspective) a TMSLNK time slot number on the TMSLNK identified by the attribute tcts. This time slot is a nail up between the MI and the TMSLNK connecting the TRCU3. (For NLIs the sublink 0 is used.) The channel created uses CPI (Central processor Intervention) to communicate to the host TRCU. At the remote end an alternate data ram entry corresponding to the tcts is used to communicate with the remote TRCU.

The value of 0 is defind as invalid by software.

To get the mapping from TCTS to NTSTYPE the following algorithms need to be followed. NOTE 1 is for an SM-2000. NOTE 2 is for SM.

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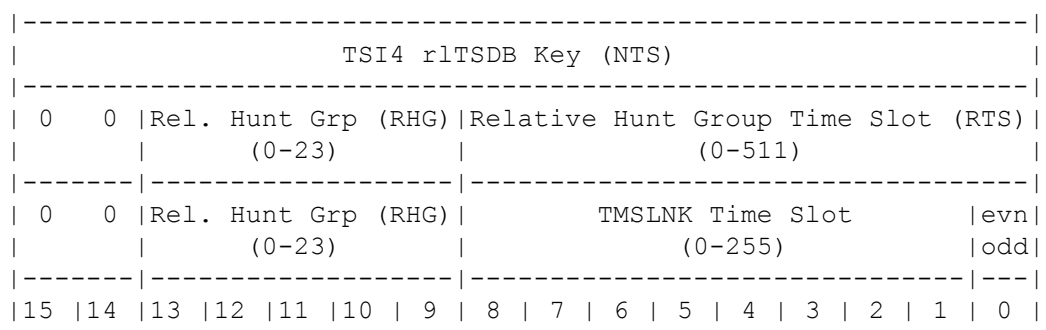
NOTE: 1.

SM-2000 TCTS to RLtsdb key




Inputs:
-------
a. NLI (nli): NLI number 0-23. Equals tpath.trcu_pi.

b. SUBLINK (slk): Always 0 for TCTS (constant).

c. SUBLINK_TIME_SLOT or TMSLNK Time Slot (sts): 8-bit control time slot number, range 0-255. Determined in step #1.

Algorithm:
----------
PCNST2NTS( nli, slk, sts ) =

```
     PCRHGRTS2NTS( PCNLISLK2RHG( nli, slk ), ((sts) << 1 ) | ((nli) & 1 ))

     |             \\----------------------/  \\-------------------------/
     |                          |                          |
     |               The definition of PCNLISLK2RHG        |
     |               is changing as part of TRCU3          |
     |               so it will be the same for            |
     |               all SM-2000s:                         |
     |                                                     |
     |               (((nli) & ~1 ) | (slk)) =             |
     |                                                     |
     |               (((nli) & 0xfffe) | (0)) =            |
     |                                                     |
     |                  ( nli & 0xfffe )                   |
     |                        |                            |
     v                        v                            v
     PCRHGRTS2NTS(           rhg,                        rts )  =

               ( ( (rhg) << PCRHG_SHFT )    | (rts) ) =
```

**********
*

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```
*  ( ((nli & 0xfffe) << 9) | (sts  << 1 ) | (nli & 1 )) & 0x3fff *
*                                                               *
*****************************************************************

BNOTE: 2.

Classic SM TCTS to RLtsdb key

     Desired Output:
     ---------------
     - rlTSDB key (tsnum also known as, NTS)
     - Provide two TCTS per DLI (one per TMS link)

        |-----------------------------------------------------------------|
        |                     TSI4 rlTSDB Key (NTS)                       |
        |-----------------------------------------------------------------|
        | 0   0 |Rel. Hunt Grp (RHG)|Relative Hunt Group Time Slot (RTS)|
        |       |      (0-23)       |              (0-511)              |
        |-------|-------------------|-----------------------------------|
        | 0   0 |Rel. Hunt Grp (RHG)|        TMSLNK Time Slot       |evn|
        |       |      (0-23)       |             (0-255)           |odd|
        |-------|-------------------|-------------------------------|---|
        |15 |14 |13 |12 |11 |10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
        |-----------------------------------------------------------------|

     Inputs:
     -------
     a. Relative Hunt Group: Always 0 for SM

     b. Even or Odd (even=0, odd=1)

     c. SUBLINK_TIME_SLOT or TMSLNK Time Slot (sts): 8-bit control time
        slot number, range 0-255.   Determined in step #1.

     Algorithm:
     ----------
     Even TCTS = ((sts << 1) | 0 ) & 0x1ff
     Odd TCTS =  ((sts << 1) | 1 ) & 0x1ff
```

**Attribute:**
type
**Fullname:**
type.
**Attribute Description:**
This is the type of TRCUs being used to create this path. Any one TRCU path must use the same TRCU type at the host and remote ends.

**Attribute:**
host_number
**Fullname:**

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host number.

**Attribute Description:**

This is the number of the host TRCU being used for this TRCU path.

**Attribute:**

host_ckt

**Fullname:**

host circuit

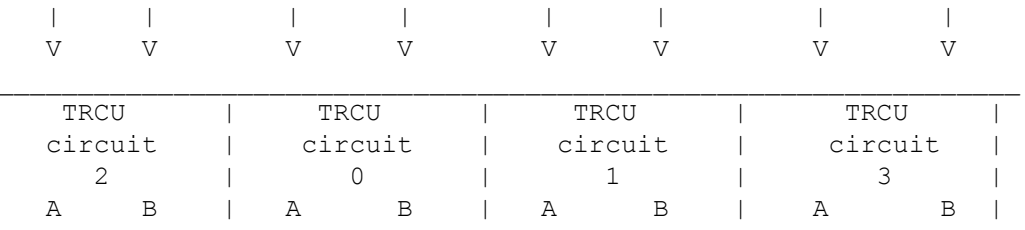
**Attribute Description:**

The circuit being used in the host TRCU for this TRCU path.

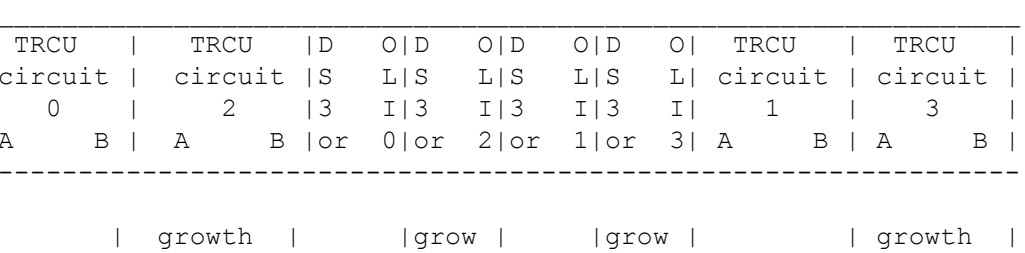
Valid trc_ckt values are 0-3.

|---------- TRCU models 1 and 2 ----------

| TRCU circuits 0 and 1 must be assigned to the same ORM or same ORM2000.
| TRCU circuits 2 and 3 must be assigned to the same ORM or same ORM2000.
| TRCU circuits 0 and 2 must be assigned to TMS links on ONTC side 0.
| TRCU circuits 1 and 3 must be assigned to TMS links on ONTC side 1.
|
| When growing a time multiplexed switch link, population of
| the transmission rate converter unit should be done as
| illustrated.
|
|
| TRCU-E (SMTRCU):




| TRCU-O (version 2 SMTRCU2):




| NOTE - an even and odd TMS link is connected to one TRCUcircuit.
| - A = even TMS NCT link

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```
|            - B = odd TMS NCT link
|-------------------------------------------------------------------------

|------------------------------ TRCU model 3 ------------------------------
```

**Attribute:**
host_cli
**Fullname:**
host change level indicator.
**Attribute Description:**
The cli value of the 2 host TRCU circuit packs in this path.

**Attribute:**
remote_number
**Fullname:**
remote number.
**Attribute Description:**
This is the number of the remote TRCU being used for this TRCU path.

**Attribute:**
remote_ckt
**Fullname:**
remote circuit
**Attribute Description:**
The circuit being used in the remote TRCU for this TRCU path.

**Attribute:**
remote_cli
**Fullname:**
remote change level indicator.
**Attribute Description:**
The cli value of the 2 remote TRCU circuit packs in this path.

**Attribute:**
spare2
**Fullname:**
Spare field number 2.
**Attribute Description:**
A spare field.

**Attribute:**
spare3
**Fullname:**
Spare field number 3.
**Attribute Description:**

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A spare field.

**Defines:**

```
"db/DMclidef.h",
"db/DMunitno.h",
"db/DMrellnkno.h",
"db/DMunittype.h",
"db/DMimtype.h",
"db/DMcmvint.h",
"db/DMntstype.h"
```

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# TRCURMK

## 1. Description

This relation contains remarks about a TRCU path. This information may be used to store information about transmission equipment connecting to a TRCU. This relation is optional.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 184 |
| expected tuples in relation | 79 |
| access type | DBACC_CIND |
| memory type | DBDISK |
| distribution | DO |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
TRCURMK     relid = 2791  DBSTATIC   DBACC_CIND  DBDISK    DO      DDBM
     host_rmk    DMCHAR50     (array [ 50 ] of char )
     remote_rmk  DMCHAR50     (array [ 50 ] of char )
     sm          DMMODULE     (ushort: 8)    <--- key
     trcu_pi     DMRELLNKNO   (ushort: 5)    <--- key
         User, Compacted and Stored Tuple Layout    TRCURMK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                            host_rmk                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                            host_rmk                           |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                            host_rmk                           |
                                    .
                                    .
                                    .
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 96 |                           remote_rmk                          |
    |---------------+---------------+---------------+---------------|
    |               |         |                                     |
100 |       sm      | trcu_pi |*************************************|
    |---------------+---------------+---------------+---------------|
       ( 104 bytes )
```

## 4. Population rules for RLtrcurmk

**Relation Description**

Transsmission Rate Converter Unit path remark.
This relation provide the office personal a way of identifying what and/or where the TRCU path hooks into the transmission world.

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**Attribute:**
sm
**Fullname:**
module number
**Attribute Description:**
This attribute uniquely identifies each module with which the office is equipped.
The domain (DMMODULE) of this attribute is unsigned 8 bits, therefore the maximum range is 0 to 255. However, actual range is smaller than that.

**Attribute:**
trcu_pi
**Fullname:**
TRCU path index
**Attribute Description:**
This is the TRCU path index for this SM. If this is a SM values of only 0 and 1 will be found.
For an EXM, for each pair of NLI, a pair of TRCU PATH are created where the trcu_pi coorespond with the NLI numbers.

**Attribute:**
host_rmk
**Fullname:**
Host remark
**Attribute Description:**
This is the remark about where the host TRCU is hooked in the transmission world.

**Attribute:**
remote_rmk
**Fullname:**
Remote remark
**Attribute Description:**
This is the remark about where the remote TRCU is hooked in the transmission world.

**Defines:**
"db/DMrellnkno.h"

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# TREE_BLF

## 1. Description

100s group line distribution tree structure.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 255 |
| expected tuples in relation | 50 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| corcable relation | DBNO |
| trigger function | RTtree_trig |
| insert trigger | DBYES |
| update trigger | DBNO |
| delete trigger | DBYES |
| end of transaction trigger | DBNO |
| permutation type | unperm |

## 3. Field Layout

```
TREE_BLF    relid = 936   DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL

     hgid        DMHGID       (ulong: 22) <--- key
     sm1         DMTREENODE   (uchar)
     sm2         DMTREENODE   (uchar)
     sm3         DMTREENODE   (uchar)
     sm4         DMTREENODE   (uchar)
     sm5         DMTREENODE   (uchar)
     sm6         DMTREENODE   (uchar)
     sm7         DMTREENODE   (uchar)
     sm8         DMTREENODE   (uchar)
     sm9         DMTREENODE   (uchar)
     sm10        DMTREENODE   (uchar)
     sm11        DMTREENODE   (uchar)
     sm12        DMTREENODE   (uchar)
     sm13        DMTREENODE   (uchar)
     sm14        DMTREENODE   (uchar)
     sm15        DMTREENODE   (uchar)
     sm16        DMTREENODE   (uchar)
     sm17        DMTREENODE   (uchar)
     sm18        DMTREENODE   (uchar)
     sm19        DMTREENODE   (uchar)
     sm20        DMTREENODE   (uchar)
     sm21        DMTREENODE   (uchar)
     sm22        DMTREENODE   (uchar)
     sm23        DMTREENODE   (uchar)
     sm24        DMTREENODE   (uchar)
     sm25        DMTREENODE   (uchar)
     sm26        DMTREENODE   (uchar)
     sm27        DMTREENODE   (uchar)
     sm28        DMTREENODE   (uchar)
     sm29        DMTREENODE   (uchar)
     sm30        DMTREENODE   (uchar)
     sm31        DMTREENODE   (uchar)
```

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```
sm32        DMTREENODE   (uchar)
sm33        DMTREENODE   (uchar)
sm34        DMTREENODE   (uchar)
sm35        DMTREENODE   (uchar)
sm36        DMTREENODE   (uchar)
sm37        DMTREENODE   (uchar)
sm38        DMTREENODE   (uchar)
sm39        DMTREENODE   (uchar)
sm40        DMTREENODE   (uchar)
sm41        DMTREENODE   (uchar)
sm42        DMTREENODE   (uchar)
sm43        DMTREENODE   (uchar)
sm44        DMTREENODE   (uchar)
sm45        DMTREENODE   (uchar)
sm46        DMTREENODE   (uchar)
sm47        DMTREENODE   (uchar)
sm48        DMTREENODE   (uchar)
sm49        DMTREENODE   (uchar)
sm50        DMTREENODE   (uchar)
sm51        DMTREENODE   (uchar)
sm52        DMTREENODE   (uchar)
sm53        DMTREENODE   (uchar)
sm54        DMTREENODE   (uchar)
sm55        DMTREENODE   (uchar)
sm56        DMTREENODE   (uchar)
sm57        DMTREENODE   (uchar)
sm58        DMTREENODE   (uchar)
sm59        DMTREENODE   (uchar)
sm60        DMTREENODE   (uchar)
sm61        DMTREENODE   (uchar)
sm62        DMTREENODE   (uchar)
sm63        DMTREENODE   (uchar)
sm64        DMTREENODE   (uchar)
sm65        DMTREENODE   (uchar)
sm66        DMTREENODE   (uchar)
sm67        DMTREENODE   (uchar)
sm68        DMTREENODE   (uchar)
sm69        DMTREENODE   (uchar)
sm70        DMTREENODE   (uchar)
sm71        DMTREENODE   (uchar)
sm72        DMTREENODE   (uchar)
sm73        DMTREENODE   (uchar)
sm74        DMTREENODE   (uchar)
sm75        DMTREENODE   (uchar)
sm76        DMTREENODE   (uchar)
sm77        DMTREENODE   (uchar)
sm78        DMTREENODE   (uchar)
sm79        DMTREENODE   (uchar)
sm80        DMTREENODE   (uchar)
sm81        DMTREENODE   (uchar)
sm82        DMTREENODE   (uchar)
sm83        DMTREENODE   (uchar)
sm84        DMTREENODE   (uchar)
sm85        DMTREENODE   (uchar)
```

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```
    sm86        DMTREENODE   (uchar)
    sm87        DMTREENODE   (uchar)
    sm88        DMTREENODE   (uchar)
    sm89        DMTREENODE   (uchar)
    sm90        DMTREENODE   (uchar)
    sm91        DMTREENODE   (uchar)
    sm92        DMTREENODE   (uchar)
    sm93        DMTREENODE   (uchar)
    sm94        DMTREENODE   (uchar)
    sm95        DMTREENODE   (uchar)
    sm96        DMTREENODE   (uchar)
    sm97        DMTREENODE   (uchar)
    sm98        DMTREENODE   (uchar)
    sm99        DMTREENODE   (uchar)
    sm100       DMTREENODE   (uchar)
        User, Compacted and Stored Tuple Layout   TREE_BLF
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                             |   |               |
 0 |                     hgid                    |***|      sm1      |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 4 |      sm2      |      sm3      |      sm4      |      sm5      |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 8 |      sm6      |      sm7      |      sm8      |      sm9      |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
12 |      sm10     |      sm11     |      sm12     |      sm13     |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
16 |      sm14     |      sm15     |      sm16     |      sm17     |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
20 |      sm18     |      sm19     |      sm20     |      sm21     |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
24 |      sm22     |      sm23     |      sm24     |      sm25     |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
28 |      sm26     |      sm27     |      sm28     |      sm29     |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
32 |      sm30     |      sm31     |      sm32     |      sm33     |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
36 |      sm34     |      sm35     |      sm36     |      sm37     |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
40 |      sm38     |      sm39     |      sm40     |      sm41     |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
44 |      sm42     |      sm43     |      sm44     |      sm45     |
```

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```
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 48 |      sm46     |      sm47     |      sm48     |      sm49     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 52 |      sm50     |      sm51     |      sm52     |      sm53     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 56 |      sm54     |      sm55     |      sm56     |      sm57     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 60 |      sm58     |      sm59     |      sm60     |      sm61     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 64 |      sm62     |      sm63     |      sm64     |      sm65     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 68 |      sm66     |      sm67     |      sm68     |      sm69     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 72 |      sm70     |      sm71     |      sm72     |      sm73     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 76 |      sm74     |      sm75     |      sm76     |      sm77     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 80 |      sm78     |      sm79     |      sm80     |      sm81     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 84 |      sm82     |      sm83     |      sm84     |      sm85     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 88 |      sm86     |      sm87     |      sm88     |      sm89     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 92 |      sm90     |      sm91     |      sm92     |      sm93     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 96 |      sm94     |      sm95     |      sm96     |      sm97     |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
100 |      sm98     |      sm99     |     sm100     |***************|
    |---------------+---------------+---------------+---------------|
       ( 104 bytes )

domain alTREE_BLF struct  (2 sub-attributes)
         hgid        .1.fake      (ulong: 22)
         sm          .2.fake      (array [ 100 ] of unsigned char )
                     Structure Layout    alTREE_BLF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                             |   |               |
  0 |                    hgid                     |***|       sm      |
```

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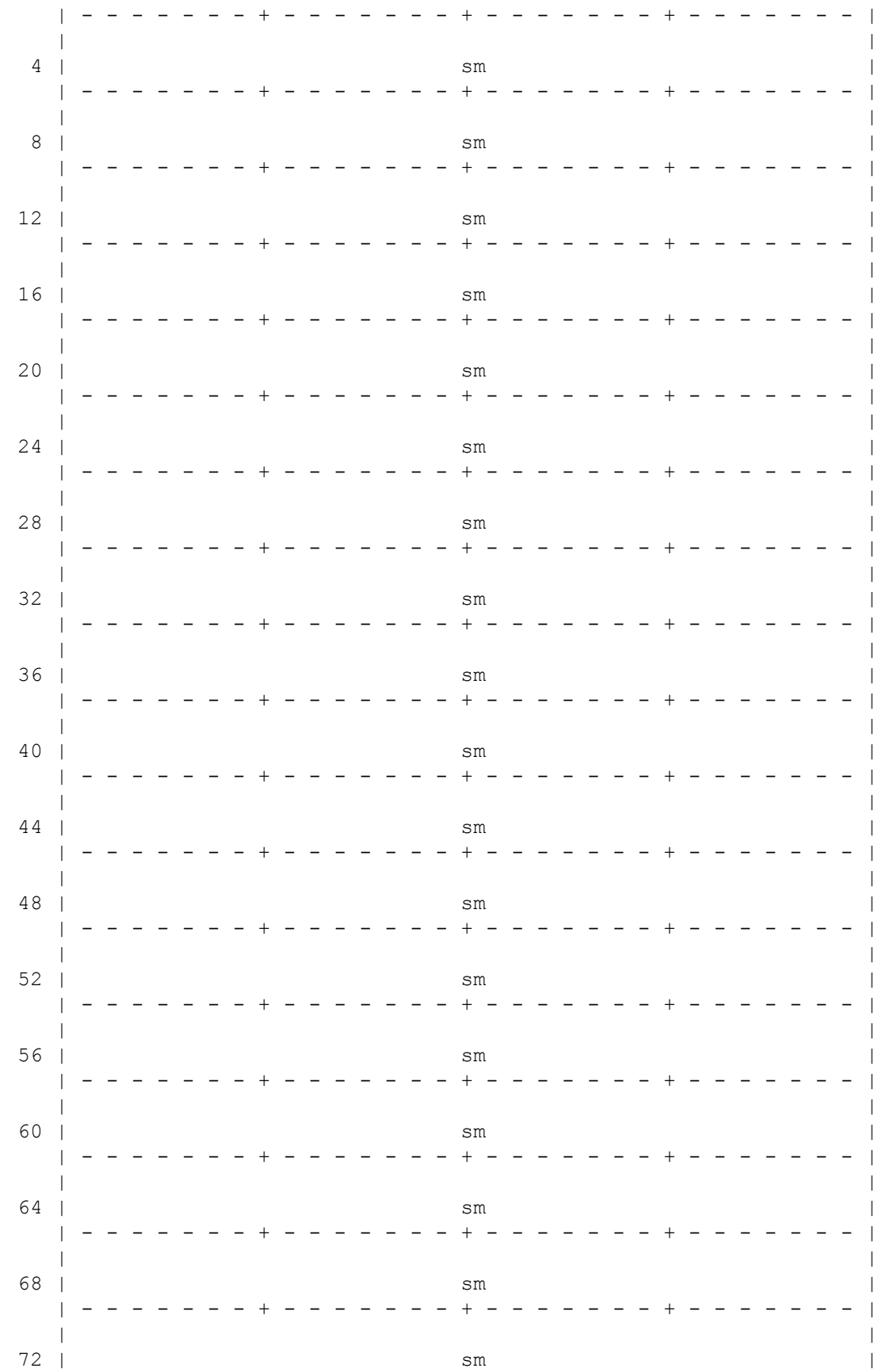


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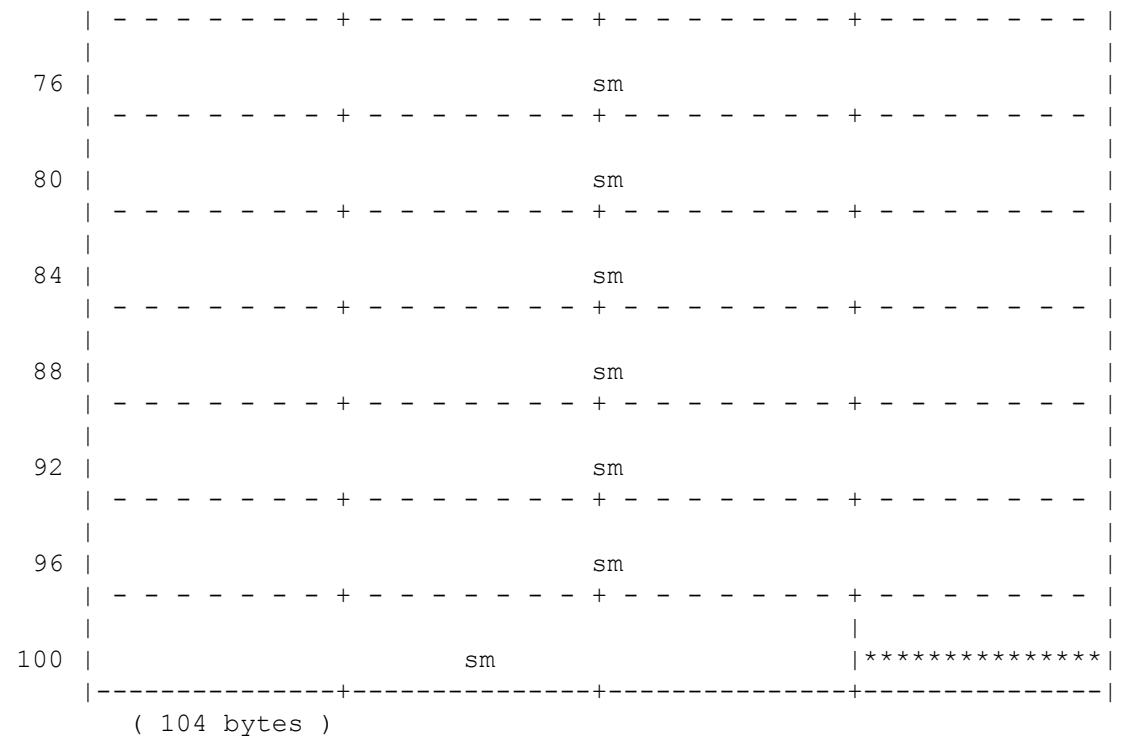


( 104 bytes )

## 4. Population rules for RLtree_blf

**Relation Description**

Hundreds Group Line Distribution Tree Structure

For each hundreds group (group of one hundred DNs) that contains DNs that are Busy Lamp Field (BLF) monitored by an ISDN Attendant (ISAT) there must exist an RLtree_blf tuple on the routing module, also known as the Hundreds Group Controller (HGC), keyed by hgid. This tuple contains a list of SMs where the monitored DNs reside.

This relation is used to direct messages from the routing SM for the group of 100 DNs to the SMs where the ports reside which are associated with this group of 100 DNs.

Note: Refer to the population rules of Gltreeablf, Glmodh_blf, Glmodm_blf and Glreplyblf. It is critical to have the proper corresponding value in these global parameters, otherwise the ISDN Attendant (ISAT) Busy Lamp Field (BLF) will not work properly.

**Attribute:**

hgid

**Fullname:**

Hundreds Group Identifier

**Attribute Description:**

Contains the noc, thousand weighted digit, and hundred weighted digit. Used as a key to find the correct RLtree_blf tuple.

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```
        hundred group identifier (hgid) has three sub-fields:

                noc     Normalized Office Code
                        Range: 1 - AVNOCMAX()
                        Default: none

                d4      Thousand weighted digit
                        Range: 0 - 9
                        Default: none

                d3      Hundred weighted digit
                        Range: 0 - 9
                        Default: none

                NOTE: The following example explains how the 'hgid' value
                      is derived.

                For the DN# 220-4321:

                Read RLnoccode to convert nxx to noc.

                For RLnoccode.nxx equal to 220 (Office Code)
                RLnoccode.noc equals 118 (Normalized Office Code)

                        118 = noc
                          4 = digit4 (d4)
                          3 = digit3 (d3)
                          2 = digit2 (d2)
                          1 = digit1 (d1)

                The 'noc', 'd4', and 'd3' will be used to determine
                the 'hgid' value.

                        noc = 118(0x76)
                        shift 2 left            = 0x7600

                        d4 = 4  (0x04)
                        shift 1 left            = 0x0040

                        d3 = 3  (0x03)          = 0x0003

                        hgid = 0x7600 + 0x0040 + 0x0003

                                                = 0x7643
```

**Attribute:**

sm[*]

**Fullname:**

Hundreds Group Switching Module

**Attribute Description:**

See distribution rules section for a detailed explanation.

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# TRMF_G

## 1. Description

list of BRCS constructed features assigned to a terminal - line or trunk. This is a child storage relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 6912 |
| expected tuples in relation | 8 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTORAGE |
| ks key store | AUTO |
| foldtype | DBGC31 |
| gkidxrel GK-index relation | rlTRMF_I |

## 3. Field Layout

```
TRMF_G      relid = 1666  DBSTORAGE  DBACC_GK    DBPRAM    LPFPFG  RCMAP
     gkTRMF_G    DMGK14       (ulong: 14)    <--- key, not stored
     todid       DMFACID      (ushort)
     feat_cnt    DMFEAT_CNT   (ushort: 5)
 (a) ffcf1       DMBOOL       (enum: 1)
 (b) ffcf2       DMBOOL       (enum: 1)
 (c) ffcf3       DMBOOL       (enum: 1)
         User and Compacted Tuple Layout     TRMF_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkTRMF_G             |
    |---------------+---------------+---------------+---------------|
    |                                 |         | | | |               |
  4 |             todid               | feat_cnt|a|b|c|***************|
    |---------------+---------------+---------------+---------------|
                                ( 8 bytes )
     todid       DMFACID      (ushort)
     feat_cnt    DMFEAT_CNT   (ushort: 5)
 (a) ffcf1       DMBOOL       (enum: 1)
 (b) ffcf2       DMBOOL       (enum: 1)
 (c) ffcf3       DMBOOL       (enum: 1)
           Stored Tuple Layout   TRMF_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  0 |                          GK LINK FIELD                        |
    |---------------+---------------+---------------+---------------|
    |                                 |         | | | |               |
  4 |             todid               | feat_cnt|a|b|c|***************|
    |---------------+---------------+---------------+---------------|
                                ( 8 bytes )
```

## 4. Population rules for RLtrmf_g

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**Relation Description**

There are not population rules for this relation.

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# TRMFEATS

## 1. Description

This relation contains s list of BRCS constructed features assigned to a terminal - line or trunk.

This is a virtual update relation.

The tree diagram Figure 1 depicts the stored structure of virtual relation TRMFEATS.

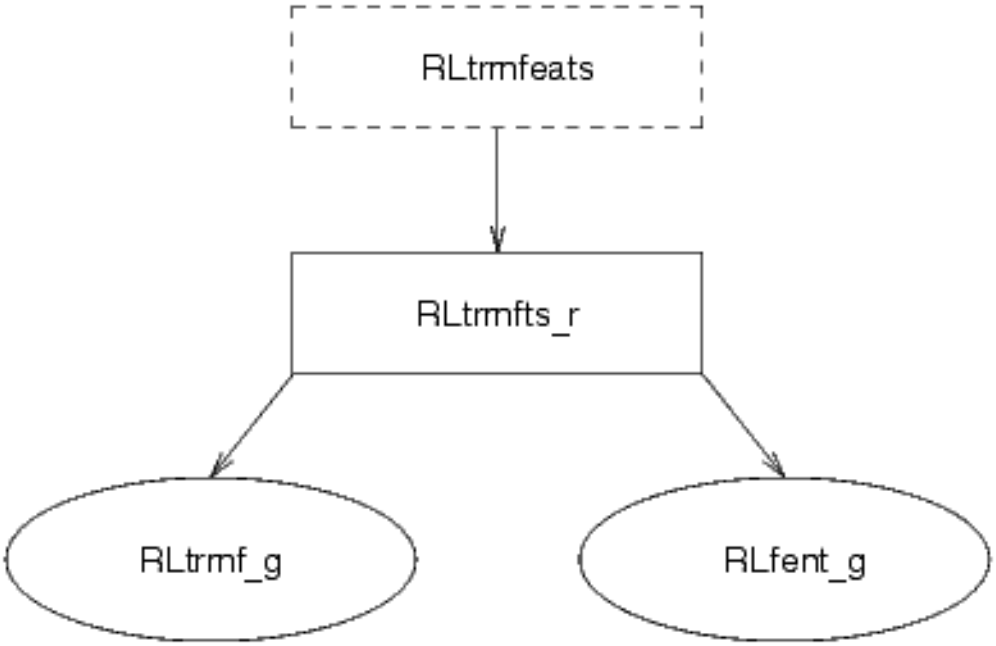


**Figure 1 Stored Structure of Virtual Relation TRMFEATS**

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 0 |
| access type | DBACC_OPV |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| trigger function | RTtrtrmfeats |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |
| corcable | DBYES |
| permutation type | un_perm |

## 3. Field Layout

```
TRMFEATS    relid = 870   DBSTATIC   DBACC_OPV   DBNOTODD  LPFPFG  RCMAP

     range       DMFEAT_RNG   (uchar: 3) <--- key
     lport       DMLPORT      (ushort: 16) <--- key
 (a) lpt_type    DMLPT_TYPE   (enum: 2) <--- key
     feat_cnt    DMFEAT_CNT   (ushort: 5)
 (b) ffcf1       DMBOOL       (enum: 1)
 (c) ffcf2       DMBOOL       (enum: 1)
```

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```
(d) ffcf3       DMBOOL       (enum: 1)
    todid       DMFACID      (ushort)
    ftent1      DMFACFTENT   (struct)
        fid         DMMCC_FID    (ushort)
(e)     mastsw      DMBOOL       (enum: 1)
(f)     active      DMBOOL       (enum: 1)
(g)     rasalwd     DMBOOL       (enum: 1)
(h)     intratg     DMBOOL       (enum: 1)
(i)     intraoff    DMBOOL       (enum: 1)
(j)     interoff    DMBOOL       (enum: 1)
(k)     pf          DMBOOL       (enum: 1)
(l)     attndnt     DMBOOL       (enum: 1)
(m)     ath         DMBOOL       (enum: 1)
        selcrit     DMSELCRIT    (enum: 6)
    ftent2      DMFACFTENT   (struct)
        fid         DMMCC_FID    (ushort)
(n)     mastsw      DMBOOL       (enum: 1)
(o)     active      DMBOOL       (enum: 1)
(p)     rasalwd     DMBOOL       (enum: 1)
(q)     intratg     DMBOOL       (enum: 1)
(r)     intraoff    DMBOOL       (enum: 1)
(s)     interoff    DMBOOL       (enum: 1)
(t)     pf          DMBOOL       (enum: 1)
(u)     attndnt     DMBOOL       (enum: 1)
(v)     ath         DMBOOL       (enum: 1)
        selcrit     DMSELCRIT    (enum: 6)
    ftent3      DMFACFTENT   (struct)
        fid         DMMCC_FID    (ushort)
(w)     mastsw      DMBOOL       (enum: 1)
(x)     active      DMBOOL       (enum: 1)
(y)     rasalwd     DMBOOL       (enum: 1)
(z)     intratg     DMBOOL       (enum: 1)
(A)     intraoff    DMBOOL       (enum: 1)
(B)     interoff    DMBOOL       (enum: 1)
(C)     pf          DMBOOL       (enum: 1)
(D)     attndnt     DMBOOL       (enum: 1)
(E)     ath         DMBOOL       (enum: 1)
        selcrit     DMSELCRIT    (enum: 6)
    ftent4      DMFACFTENT   (struct)
        fid         DMMCC_FID    (ushort)
(F)     mastsw      DMBOOL       (enum: 1)
(G)     active      DMBOOL       (enum: 1)
(H)     rasalwd     DMBOOL       (enum: 1)
(I)     intratg     DMBOOL       (enum: 1)
(J)     intraoff    DMBOOL       (enum: 1)
(K)     interoff    DMBOOL       (enum: 1)
(L)     pf          DMBOOL       (enum: 1)
(M)     attndnt     DMBOOL       (enum: 1)
(N)     ath         DMBOOL       (enum: 1)
        selcrit     DMSELCRIT    (enum: 6)
    ftent5      DMFACFTENT   (struct)
        fid         DMMCC_FID    (ushort)
(O)     mastsw      DMBOOL       (enum: 1)
(P)     active      DMBOOL       (enum: 1)
```

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```
 (Q)     rasalwd     DMBOOL       (enum: 1)
 (R)     intratg     DMBOOL       (enum: 1)
 (S)     intraoff    DMBOOL       (enum: 1)
 (T)     interoff    DMBOOL       (enum: 1)
 (U)     pf          DMBOOL       (enum: 1)
 (V)     attndnt     DMBOOL       (enum: 1)
 (W)     ath         DMBOOL       (enum: 1)
         selcrit     DMSELCRIT    (enum: 6)
     ftent6      DMFACFTENT   (struct)
         fid         DMMCC_FID    (ushort)
 (X)     mastsw      DMBOOL       (enum: 1)
 (Y)     active      DMBOOL       (enum: 1)
 (Z)     rasalwd     DMBOOL       (enum: 1)
 (a)     intratg     DMBOOL       (enum: 1)
 (b)     intraoff    DMBOOL       (enum: 1)
 (c)     interoff    DMBOOL       (enum: 1)
 (d)     pf          DMBOOL       (enum: 1)
 (e)     attndnt     DMBOOL       (enum: 1)
 (f)     ath         DMBOOL       (enum: 1)
         selcrit     DMSELCRIT    (enum: 6)
         User, Compacted and Stored Tuple Layout   TRMFEATS
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |     |                         |                               |
  0 |range|*************************|             lport             |
    |---------------+---------------+---------------+---------------|
    |   |         | | | |           |                               |
  4 | a | feat_cnt|b|c|d|***********|             todid             |
    |===============+===========  ftent1 ===========+===============|
    |                               | | | | | | | | | |           | |
  8 |              fid              |e|f|g|h|i|j|k|l|m|  selcrit  |*|
    |===============+===========  ftent2 ===========+===============|
    |                               | | | | | | | | | |           | |
 12 |              fid              |n|o|p|q|r|s|t|u|v|  selcrit  |*|
    |===============+===========  ftent3 ===========+===============|
    |                               | | | | | | | | | |           | |
 16 |              fid              |w|x|y|z|A|B|C|D|E|  selcrit  |*|
    |===============+===========  ftent4 ===========+===============|
    |                               | | | | | | | | | |           | |
 20 |              fid              |F|G|H|I|J|K|L|M|N|  selcrit  |*|
    |===============+===========  ftent5 ===========+===============|
    |                               | | | | | | | | | |           | |
 24 |              fid              |O|P|Q|R|S|T|U|V|W|  selcrit  |*|
    |===============+===========  ftent6 ===========+===============|
    |                               | | | | | | | | | |           | |
 28 |              fid              |X|Y|Z|a|b|c|d|e|f|  selcrit  |*|
    |===============+===============+===============+===============|
       ( 32 bytes )

domain alTRMFEATS struct  (9 sub-attributes)
         range       .8.fake      (uchar: 3)
         lport       unsigned short (ushort)
 (a)     lpt_type    .0fake       (enum)
```

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```
        feat_cnt    .9.fake      (ushort: 5)
(b)     ffcf1       .1fake       (enum)
(c)     ffcf2       .1fake       (enum)
(d)     ffcf3       .1fake       (enum)
        todid       unsigned short (ushort)
        ftent       .10.fake     (array [ 6 ] of .4fake )
            fid         unsigned short (ushort)
(e)         mastsw      .1fake       (enum)
(f)         active      .1fake       (enum)
(g)         rasalwd     .1fake       (enum)
(h)         intratg     .1fake       (enum)
(i)         intraoff    .1fake       (enum)
(j)         interoff    .1fake       (enum)
(k)         pf          .1fake       (enum)
(l)         attndnt     .1fake       (enum)
(m)         ath         .1fake       (enum)
            selcrit     .2fake       (enum)
                    Structure Layout    alTRMFEATS
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |     |                         |                               |
 0 |range|*************************|             lport             |
   |---------------+---------------+---------------+---------------|
   |   |         | | | |           |                               |
 4 | a | feat_cnt|b|c|d|***********|             todid             |
   |===============+==========  ftent[0] ==========+===============|
   |                               | | | | | | | | |           | |
 8 |               fid             |e|f|g|h|i|j|k|l|m|  selcrit  |*|
   |===============+==========  ftent[1] ==========+===============|
   |                               | | | | | | | | |           | |
12 |               fid             |e|f|g|h|i|j|k|l|m|  selcrit  |*|
   |===============+==========  ftent[2] ==========+===============|
   |                               | | | | | | | | |           | |
16 |               fid             |e|f|g|h|i|j|k|l|m|  selcrit  |*|
   |===============+==========  ftent[3] ==========+===============|
   |                               | | | | | | | | |           | |
20 |               fid             |e|f|g|h|i|j|k|l|m|  selcrit  |*|
   |===============+==========  ftent[4] ==========+===============|
   |                               | | | | | | | | |           | |
24 |               fid             |e|f|g|h|i|j|k|l|m|  selcrit  |*|
   |===============+==========  ftent[5] ==========+===============|
   |                               | | | | | | | | |           | |
28 |               fid             |e|f|g|h|i|j|k|l|m|  selcrit  |*|
   |===============+===============+===============+===============|
      ( 32 bytes )
```

## 4. Population rules for RLtrmfeats

### Relation Description

Terminal features

List of business and residential customer service (BRCS) constructed features assigned to a BRCS user (a user is defined to be an analog

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terminal, a trunk, or an integrated services digital network (ISDN) user).

Null feature entries contain the following values:

```
fid = 0
mastsw = DBNO
active = DBNO
intratg = DBNO
intraoff = DBNO
interoff = DBNO
pf = DBNO
attndnt = DBNO
ath = DBNO
selcrit = SC_NULL
```

Non-null feature entries must precede null feature entries in the feature list (null feature entries cannot be interspersed among non-null feature entries).

If there is a tuple with a range equal to x then for all tuples range less than x and the other keys the same there are no null feature entries.

**Attribute:**
range
**Fullname:**
Range
**Attribute Description:**
Indicates which group of six feature ID (FID) entries to be accessed.

**Attribute:**
lport
**Fullname:**
Logical port
**Attribute Description:**
Logical port of the user being assigned the BRCS features.

**Attribute:**
lpt_type
**Fullname:**
Logical port type
**Attribute Description:**
Logical port type of the user.

**Attribute:**
feat_cnt
**Fullname:**

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Feature count

**Attribute Description:**

Indicates the number of features assigned.

**Attribute:**

ffcf1

**Fullname:**

Future field feature

**Attribute Description:**

Boolean reserved for future field feature.

**Attribute:**

ffcf[*]

**Fullname:**

Future field feature

**Attribute Description:**

Boolean reserved for future field feature.

**Attribute:**

todid

**Fullname:**

Time of day ID

**Attribute Description:**

Indicates the time of day list identifier assigned to this user.

**Attribute:**

ftent[*]

**Fullname:**

Feature entry

**Attribute Description:**

Each tuple can contain up to six feature entries.

**Attribute:**

ftent[*].fid

**Fullname:**

Feature ID (FID)

**Attribute Description:**

Indicates the constructed FID. If non-zero there must be a tuple in RLfacname with a facid equal to this FID. The class associated with the facid in RLfacname must be equal to FACBRCS.

The following feature types are valid
MFACB, MFACCT, MFARS, MFATH, MFCWT,
MFICM, MFID, MFSC, MFMDR, MFMWY, MFPFA,
MFPUO, MFTOD
MFDISP,
MFACTR

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MFAR, MFAC, MFCOT, MFACSR
MFHI,
MFASI

The following feature types are prohibited from being assigned to Standard BRIs, analog lines sharing their DN with Standard BRI or BFGs containing Standard BRI members:
MFACB,
MFACSR,

If MFDISP is assigned to a standard BRI terminal, the time_date option in RLdisp_cf must be DBNO.

If the feature type is LASS AR (MFAR), and if RLar_opts.filtr_op == DBYES, then a terminal group feature (MFTGR) must also be assigned to the terminal or in its BFG group.

If the feature type is LASS AC (MFAC), and if RLac_opts.filtr_op == DBYES, then a terminal group feature (MFTGR) must also be assigned to the terminal or in its BFG group.

If the feature type is ACBC (MFACB), and if RLacb_opts.filtr_op == DBYES, then a terminal group feature (MFTGR) must also be assigned to the terminal or in its BFG group.

**Attribute:**
ftent[*].mastsw
**Fullname:**
Master switch
**Attribute Description:**
Indicates the on/off status on the master switch for this FID. DBNO indicates the master switch is on.

If port is a pseudo BFG port then mastsw = active = RLbfgmatch.act and the low order 11 bits of port are equal to RLbfgmatch.bfgid.

**Attribute:**
ftent[*].active
**Fullname:**
Feature ID active status
**Attribute Description:**
Indicates the current run status of this FID. DBNO indicates the FID is inactive: DBYES indicates the FID is active.

If RLtrmfeats.port is BFG pseudo-port then, only features with modular feature type of MFCWT

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is allowed to be assigned with customer
control options of ACTCD and DCTCD. The
call waiting terminating BFG feature
activation/deactivation is maintained in
RLfc_line.cwt_on.
Call waiting originating BFG feature
activation/deactivation is maintained in
RLfc_line.cwo_on.
NOTE: No more than one call waiting terminating
feature may be assigned.
No more than one call waiting originating
feature may be assigned.

Otherwise,

Features should be assigned as active or inactive
dependent on the status of their activation and
constructed feature and/or template base relation
for the corresponding feature definition according
to these rules.
1) If the actvn field in a feature's feature
definition relation is ACTNONE, or there is no
actvn field in that relation, active can be DBYES
or DBNO. It will usually be DBYES, since the
subscriber will not be able to use customer oriented
recent change (CORC) to activate it. If it is set to
DBNO, recent change will have to be used to activate it.
This also applies to time of day features where
RLtd_cf.act is DBNO.
2) All features with activation of ACTCD or
ACTSCAN and deactivation of DCTAUTO or DCTSCAN
should be assigned inactive.
Active and inactive with DBNO and DBYES respectively
3) All features with ACTCD to activate
and ACTCD to deactivate can be assigned at the
customer's discretion.
Active and inactive with DBNO and DBYES respectively.

**Attribute:**
ftent[*].rasalwd
**Fullname:**
Remote access service (RAS) allowed
**Attribute Description:**
This bit determine if RAS is supported for this feature entry.

For the 5E5 generic, the only feature that can have
this attribute set to DBYES is call forwarding.
This implies:
(fid >> 10 ) equals DMmftype.MFCFW
Because call forwarding is a DN feature (that is, it has an
entry in RLdn_feats), this further implies that this is
ALWAYS DBNO in 5E5.

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In 5E8 the Remote Access to Advanced Service Interface (RASI) special feature can have this attribute set to DBYES if this feature is not in a BFG.
In 5E9 RASI can have this attribute set to DBYES if it is in a BFG also since starting in 5E9 remote access for features in a BFG are allowed.

**Attribute:**
ftent[*].intratg
**Fullname:**
Terminal in the same terminal group
**Attribute Description:**
DBYES - this FID can be selected for calls between terminals in the same terminal group.
DBNO - This FID will not be selected for calls between terminals in the same terminal group. This attribute must be identical to the intratg attribute for this FID in RLfacftdsc(fid).ptyfilt.

**Attribute:**
ftent[*].intraoff
**Fullname:**
Terminals in the same office
**Attribute Description:**
This FID can/cannot be selected for calls between terminals in the same office.

**Attribute:**
ftent[*].interoff
**Fullname:**
Inter-office calls
**Attribute Description:**
This FID can/cannot be selected for inter-office calls.

**Attribute:**
ftent[*].pf
**Fullname:**
Private facility
**Attribute Description:**
This FID can/cannot be selected for private facility calls.

**Attribute:**
ftent[*].attndnt
**Fullname:**
Attendant
**Attribute Description:**
This FID can be selected for attendant calls.

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**Attribute:**
ftent[*].ath
**Fullname:**
Authorization
**Attribute Description:**
DBYES - This feature requires an authorization code for use.
DBNO - This feature does not require an authorization code for use.

For ODA only, if ath = DBYES then the feature defined by the fid attribute must be in the RLath_fcos relation. Default for BFG is DBNO. A subscriber can only be assigned to a BFG if, and only if, the features and authorization codes (ATH) are identical. If the authorization codes do not match, the current feature selection request is rejected.

For the modular feature type of MFDISP and MFACTR RLtrmfeats.ftent[n].ath will equal DBNO.

**Attribute:**
ftent[*].selcrit
**Fullname:**
Selection criteria
**Attribute Description:**
This is the selection criteria for this FID. This field is an enumerated value that must be identical to the selcrit for this fid in RLfacftdsc.p See population rules for the selcrit attribute in RLfacftdsc.P for a complete description

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# TRMFTS_R

## 1. Description

List of BRCS constructed features assigned to a terminal - line or trunk. This is a root storage relation modified by date.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 172800 |
| expected number of tuples | 522 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFPFG |
| application | RCMAP |
| relation type | DBSTORAGE |
| density | 41 |
| ks key store | AUTO |

## 3. Field Layout

```
TRMFTS_R    relid = 1665  DBSTORAGE  DBACC_CIND  DBPRAM    LPFPFG  RCMAP

     range       DMFEAT_RNG   (uchar: 3) <--- key, not stored
 (a) lpt_type    DMLPT_TYPE   (enum: 2) <--- key, not stored
     lport       DMLPORT      (ushort: 16) <--- key, not stored
     ftlist      DMGK14       (ulong: 14)
     trmlist     DMGK14       (ulong: 14)
         User and Compacted Tuple Layout   TRMFTS_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |     |   |                     |                               |
  0 |range| a |*********************|             lport             |
    |---------------+---------------+---------------+---------------|
    |                             |                               |       |
  4 |           ftlist            |          trmlist              |*******|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )


     ftlist      DMGK14       (ulong: 14)
     trmlist     DMGK14       (ulong: 14)
           Stored Tuple Layout     TRMFTS_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                             |                               |       |
  0 |           ftlist            |          trmlist              |*******|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population rules for RLtrmfts_r

There are no population rules for this relation.

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# TSCOUNT

## 1. Description

This relation defines, on a per SM basis, the number of TSIU network side time slots, ICL time slots and PSU PIDB/PCT time slots used by ISM nailups, X.75/X.75' trunk nailups, IP trunk nailups, RISLU nailups, EDSL nailups, Packet Pipe (PP) nailups, Speech Handler (SH) nailups, SS7 Signaling Data Links (SdLs) and ports (ST-DLTs) and RPA reserved PSU PIDB time slots.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 192 |
| expected number of tuples | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | ISPM |
| relation type | DBSTATIC |
| density | 32 |
| permutation type | un_perm |

## 3. Field Layout

```
TSCOUNT     relid = 834   DBSTATIC   DBACC_CIND  DBPRAM    LP      ISPM

     module      DMMODULE     (ushort: 8) <--- key
     edsl_tsiu   DMUSHORT     (ushort)
     ism_tsiu    DMUSHORT     (ushort)
     ip_tsiu     DMUSHORT     (ushort)
     x75_tsiu    DMUSHORT     (ushort)
     x75p_tsiu   DMUSHORT     (ushort)
     bri_tsiu    DMUSHORT     (ushort)
     xat_tsiu    DMUSHORT     (ushort)
     pp_tsiu     DMUSHORT     (ushort)
     ccs_tsiu    DMUSHORT     (ushort)
     ism_umb     DMUSHORT     (ushort)
     ism_icl     DMUSHORT     (ushort)
     bri_0shlf   DMUSHORT     (ushort)
     bri_1shlf   DMUSHORT     (ushort)
     bri_2shlf   DMUSHORT     (ushort)
     bri_3shlf   DMUSHORT     (ushort)
     bri_4shlf   DMUSHORT     (ushort)
     eoctmc_0shlf  DMUSHORT     (ushort)
     eoctmc_1shlf  DMUSHORT     (ushort)
     eoctmc_2shlf  DMUSHORT     (ushort)
     eoctmc_3shlf  DMUSHORT     (ushort)
     eoctmc_4shlf  DMUSHORT     (ushort)
     odbmin_0shlf  DMUSHORT     (ushort)
     odbmin_1shlf  DMUSHORT     (ushort)
     odbmin_2shlf  DMUSHORT     (ushort)
     odbmin_3shlf  DMUSHORT     (ushort)
     odbmin_4shlf  DMUSHORT     (ushort)
     edsl_0shlf  DMUSHORT     (ushort)
     edsl_1shlf  DMUSHORT     (ushort)
     edsl_2shlf  DMUSHORT     (ushort)
     edsl_3shlf  DMUSHORT     (ushort)
     edsl_4shlf  DMUSHORT     (ushort)
```

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```
    ism_0shlf   DMUSHORT     (ushort)
    ism_1shlf   DMUSHORT     (ushort)
    ism_2shlf   DMUSHORT     (ushort)
    ism_3shlf   DMUSHORT     (ushort)
    ism_4shlf   DMUSHORT     (ushort)
    ip_0shlf    DMUSHORT     (ushort)
    ip_1shlf    DMUSHORT     (ushort)
    ip_2shlf    DMUSHORT     (ushort)
    ip_3shlf    DMUSHORT     (ushort)
    ip_4shlf    DMUSHORT     (ushort)
    x75_0shlf   DMUSHORT     (ushort)
    x75_1shlf   DMUSHORT     (ushort)
    x75_2shlf   DMUSHORT     (ushort)
    x75_3shlf   DMUSHORT     (ushort)
    x75_4shlf   DMUSHORT     (ushort)
    x75p_0shlf  DMUSHORT     (ushort)
    x75p_1shlf  DMUSHORT     (ushort)
    x75p_2shlf  DMUSHORT     (ushort)
    x75p_3shlf  DMUSHORT     (ushort)
    x75p_4shlf  DMUSHORT     (ushort)
    xat_0shlf   DMUSHORT     (ushort)
    xat_1shlf   DMUSHORT     (ushort)
    xat_2shlf   DMUSHORT     (ushort)
    xat_3shlf   DMUSHORT     (ushort)
    xat_4shlf   DMUSHORT     (ushort)
    pp_0shlf    DMUSHORT     (ushort)
    pp_1shlf    DMUSHORT     (ushort)
    pp_2shlf    DMUSHORT     (ushort)
    pp_3shlf    DMUSHORT     (ushort)
    pp_4shlf    DMUSHORT     (ushort)
    sh_0shlf    DMUSHORT     (ushort)
    sh_1shlf    DMUSHORT     (ushort)
    sh_2shlf    DMUSHORT     (ushort)
    sh_3shlf    DMUSHORT     (ushort)
    sh_4shlf    DMUSHORT     (ushort)
    ccs_0shlf   DMUSHORT     (ushort)
    ccs_1shlf   DMUSHORT     (ushort)
    ccs_2shlf   DMUSHORT     (ushort)
    ccs_3shlf   DMUSHORT     (ushort)
    ccs_4shlf   DMUSHORT     (ushort)
    rpa_0shlf   DMUCHAR      (uchar)
    rpa_1shlf   DMUCHAR      (uchar)
    rpa_2shlf   DMUCHAR      (uchar)
    rpa_3shlf   DMUCHAR      (uchar)
    rpa_4shlf   DMUCHAR      (uchar)
        User, Compacted and Stored Tuple Layout    TSCOUNT
  |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
  |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
  |---------------+---------------+---------------+---------------|
  |               |               |                               |
0 |     module    |***************|           edsl_tsiu           |
  |---------------+---------------+---------------+---------------|
  |                               |                               |
4 |            ism_tsiu           |            ip_tsiu            |
```

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| | | | |
|---|---|---|---|
| 8 | x75_tsiu | x75p_tsiu | |
| 12 | bri_tsiu | xat_tsiu | |
| 16 | pp_tsiu | ccs_tsiu | |
| 20 | ism_umb | ism_icl | |
| 24 | bri_0shlf | bri_1shlf | |
| 28 | bri_2shlf | bri_3shlf | |
| 32 | bri_4shlf | eoctmc_0shlf | |
| 36 | eoctmc_1shlf | eoctmc_2shlf | |
| 40 | eoctmc_3shlf | eoctmc_4shlf | |
| 44 | odbmin_0shlf | odbmin_1shlf | |
| 48 | odbmin_2shlf | odbmin_3shlf | |
| 52 | odbmin_4shlf | edsl_0shlf | |
| 56 | edsl_1shlf | edsl_2shlf | |
| 60 | edsl_3shlf | edsl_4shlf | |
| 64 | ism_0shlf | ism_1shlf | |
| 68 | ism_2shlf | ism_3shlf | |
| 72 | ism_4shlf | ip_0shlf | |
| 76 | ip_1shlf | ip_2shlf | |

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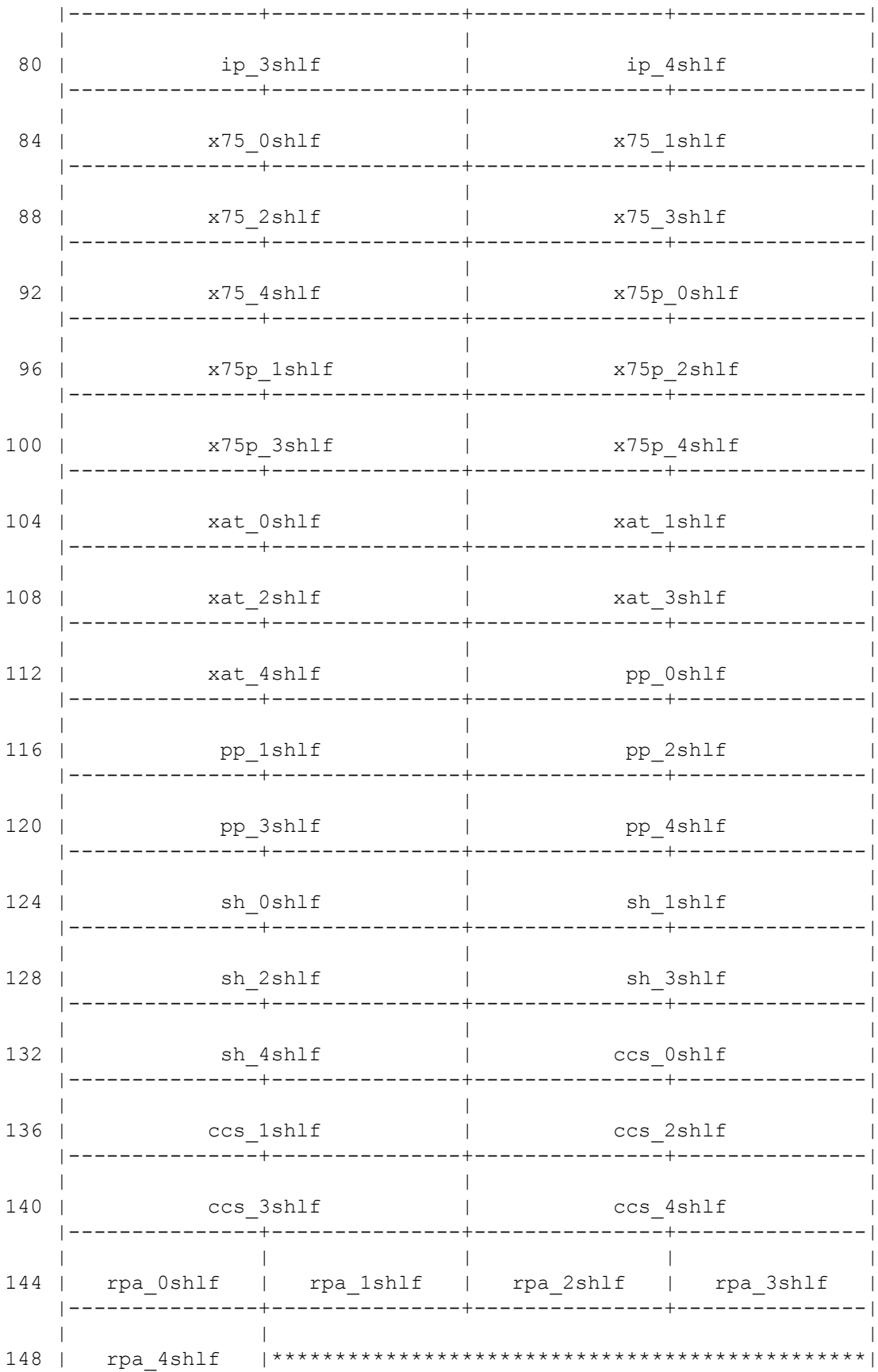


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```
    |---------------+---------------+---------------+---------------|
       ( 152 bytes )

domain alTSCOUNT  struct  (25 sub-attributes)
         module      .1.fake      (ushort)
         edsl_tsiu   unsigned short (ushort)
         ism_tsiu    unsigned short (ushort)
         ip_tsiu     unsigned short (ushort)
         x75_tsiu    unsigned short (ushort)
         x75p_tsiu   unsigned short (ushort)
         bri_tsiu    unsigned short (ushort)
         xat_tsiu    unsigned short (ushort)
         pp_tsiu     unsigned short (ushort)
         ccs_tsiu    unsigned short (ushort)
         ism_umb     unsigned short (ushort)
         ism_icl     unsigned short (ushort)
         bri_shlf    .2.fake      (array [ 5 ] of unsigned short )
         eoctmc_shlf  .3.fake      (array [ 5 ] of unsigned short )
         odbmin_shlf  .4.fake      (array [ 5 ] of unsigned short )
         edsl_shlf   .5.fake      (array [ 5 ] of unsigned short )
         ism_shlf    .6.fake      (array [ 5 ] of unsigned short )
         ip_shlf     .7.fake      (array [ 5 ] of unsigned short )
         x75_shlf    .8.fake      (array [ 5 ] of unsigned short )
         x75p_shlf   .9.fake      (array [ 5 ] of unsigned short )
         xat_shlf    .10.fake     (array [ 5 ] of unsigned short )
         pp_shlf     .11.fake     (array [ 5 ] of unsigned short )
         sh_shlf     .12.fake     (array [ 5 ] of unsigned short )
         ccs_shlf    .13.fake     (array [ 5 ] of unsigned short )
         rpa_shlf    .14.fake     (array [ 5 ] of unsigned char )
                     Structure Layout     alTSCOUNT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |     module    |***************|           edsl_tsiu           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            ism_tsiu           |            ip_tsiu            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |            x75_tsiu           |           x75p_tsiu           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 12 |            bri_tsiu           |            xat_tsiu           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 16 |            pp_tsiu            |            ccs_tsiu           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
 20 |            ism_umb            |            ism_icl            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 24 |                           bri_shlf                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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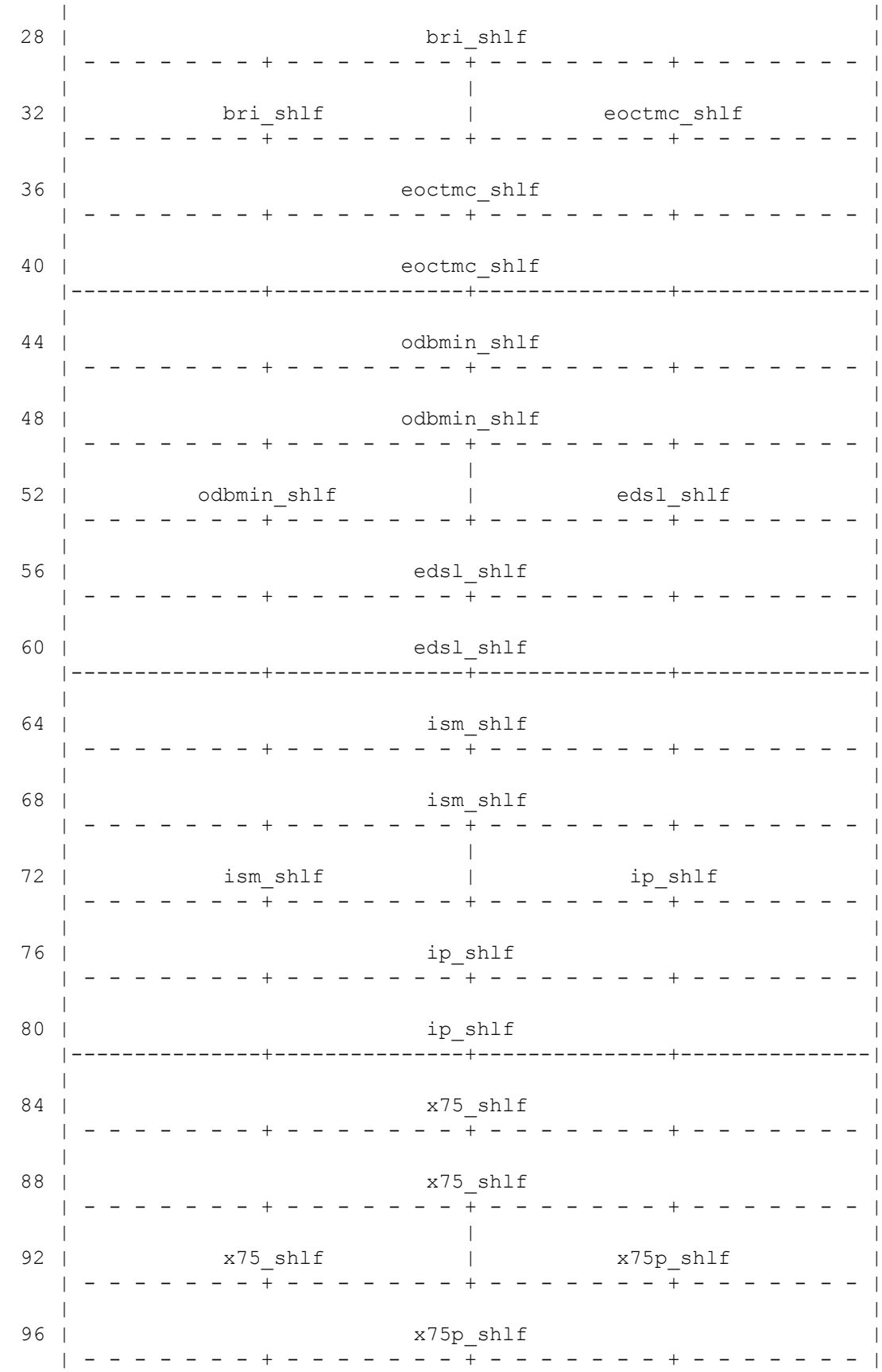


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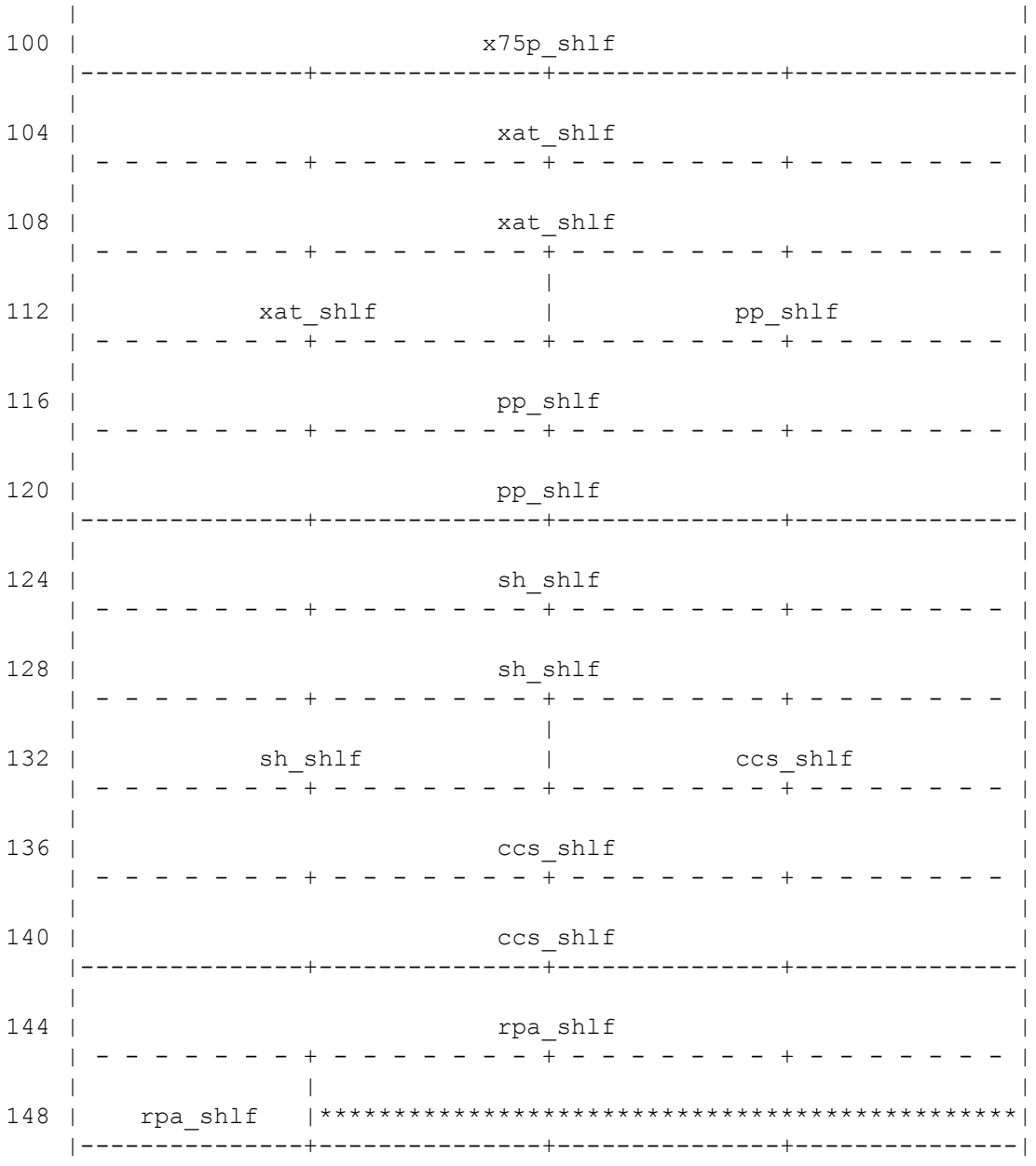


## 4. Population rules for RLtscount

### Relation Description

Time slot count.

This relation defines on a per SM basis the number of TSIU network side time slot, ICL time slot, and PIDB/PCT time slot used by Inter-SM nailups, Internal Protocol (IP) nailups, X.75' trunk ports, BRI cut through (such as, D and B channel) nailups, EOC/TMC cut through, Primary Rate Interface (PRI) (such as, EDSL, OSPS interflow) nailups, X.75 trunk ports, X.25 packet switching on a T1 facility (XAT) port nailups , PSU Pipe (PP) nailups, Speech Handler (SH) nailups,

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Signaling Data Link Terminal (ST-DLT) nailups and Remote Protocol Access (RPA) PSU PIDB/PCT time slot allocations.

**Attribute:**
module
**Fullname:**
module.
**Attribute Description:**
SM module number which contains packet switching nailups, CDMA Packet Pipe trunk nailups, CDMA SH trunk nailups or ST-DLTs. This SM must have an RLmodatt.eqstat = SMOPER.
A tuple for a given switching module is required if any TSIU or PSU shelf time slot count for that SM is greater than 0.

The ism_icl and ism_umb were not included in the module attribute's population rules. They are sub-classifications of the ism_tsiu attribute.

**Attribute:**
edsl_tsiu
**Fullname:**
Number of TSIU network time slots occupied by Primary Rate Interface (PRI) and OSPS EDSL D-channel nailups.
**Attribute Description:**
Number of TSIU network side time slots occupied by PRI and OSPS EDSL D-channel nailups on the SM specified in the key, module.

For SM, do the following:

1) This attribute is incremented by two whenever the RLdslgdata.dslg_cnt attribute is incremented, if servclass is FCEDSL, OA_IFOPER, or OA_IFTERM.

2) This attribute is decremented by two whenever the RLdslgdata.dslg_cnt attribute is decremented, if servclass is FCEDSL, OA_IFOPER, or OA_IFTERM.

For an SM-2000, this field is not used and must be zero. PRI and OSPS D-channels can only be nailed-up within an SM or within an SM-2000. However, since the path is intra-SM, the path does not use network side TSIU time slots on an SM-2000.

**Attribute:**
ism_tsiu
**Fullname:**
TSIU network side time slots occupied by ISM.
**Attribute Description:**
Number of TSIU network side time slots occupied by ISM nailups on the SM specified in the key, module.

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This attribute is incremented whenever the
RLdslgdata.ism_cnt attribute is incremented.
This attribute is decremented whenever the
RLdslgdata.ism_cnt attribute is decremented.

**Attribute:**
ip_tsiu
**Fullname:**
Number of TSIU network side time slot occupied by IP nailups.
**Attribute Description:**
Number of TSIU network side time slots occupied by IP
nailups on the SM specified in the key, module.

For SM, do the following:

1) This attribute is incremented by two whenever the
RLdslgdata.trk_cnt attribute is incremented.

2) This attribute is decremented by two whenever the
RLdslgdata.trk_cnt attribute is decremented.

For an SM-2000, this field is not used and must be 0.
IPs can only be nailed-up within an SM or within an SM-2000.
Since the path is intra-SM, the path does not use network
side TSIU time slots when this is an SM-2000.

**Attribute:**
x75_tsiu
**Fullname:**
number of TSIU network side time slots occupied by X.75 nailups.
**Attribute Description:**
Number of TSIU network side time slots occupied by X.75
nailups on the SM specified in the key, module.

For SM, do the following:

1) This attribute is incremented by two whenever the
RLdslgdata.x75_cnt attribute is incremented.

2) This attribute is decremented by two whenever the
RLdslgdata.x75_cnt attribute is decremented.

For an SM-2000, this field is not used and must be set to
zero. X.75 trunks can only be nailed-up within an SM or
within an SM-2000. Since the path is intra-SM,
the path does not use network side TSIU time slots when this
is an SM-2000.

**Attribute:**

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x75p_tsiu

**Fullname:**

Number of tsiu network side time slots occupied by X.75' nailups.

**Attribute Description:**

Number of TSIU network side time slots occupied by X.75' nailups on the SM specified in the key, module.

For SM, do the following:

1) This attribute is incremented by two whenever the RLdslgdata.x75p_cnt attribute is incremented.

2) This attribute is decremented by two whenever the RLdslgdata.x75p_cnt attribute is decremented.

For an SM-2000, this field is not used and must be zero. X.75prime trunks can only be nailed-up within an SM or within an SM-2000. Since the path is intra-SM, the path does not use network side TSIU time slots on an SM-2000.

**Attribute:**

bri_tsiu

**Fullname:**

Number of TSIU network side time slots occupied by cut through BRIs. (that is D Chan and B Chan) Note: Not ODBs

**Attribute Description:**

Number of TSIU network side time slots on the SM specified in the key, module.

For SM, do the following:

A) This attribute is incremented by two whenever:

   1) a tuple is populated in RLdslequip for a DSL packet switched B-channel (B-channel port can be determined by keying into RLfc_porttyp with RLdslequip.dsl and the tuple having a port index of 0x0001 or 0x0002) corresponding to a line card with a utype in RLcktdata of SMRISLU or DNU-S (the line card circuit can be found by keying into RLfc_porttyp with RLdslequip.dsl and using the attribute RLfc_porttyp.cktname to access RLcktdata).

   2) a bit is set (1) in RLdgrp_ri.whlgpmask.

B) This attribute is decremented by two whenever:

   1) a tuple is deleted from RLdslequip for a DSL packet switched B-channel (B-channel port can be determined by keying into RLfc_porttyp with RLdslequip.dsl and the tuple having a port index of 0x0001 or 0x0002) corresponding to a line card with a utype in RLcktdata

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of SMRISLU or DNU-S(the line card circuit can be found by keying into RLfc_porttyp with RLdslequip.dsl and using the attribute RLfc_porttyp.cktname to access RLcktdata).

2) a bit is cleared (0) in RLdgrp_ri.whlgpmask.

For an SM-2000, this field is not used and must be zero. Since the path is intra-SM, the path does not use network side TSIU time slots on an SM-2000.

**Attribute:**
xat_tsiu
**Fullname:**
XAT nailup TSIU time slot count.
**Attribute Description:**
Number of TSIU network side time slots occupied by XAT nailups on the SM specified in the key, module.

For the SM, do the following:

1) This attribute is incremented by two whenever the RLdslgdata.dslg_cnt attribute is incremented and the RLfc_porttyp.servclass is PSX25_T1.

2) This attribute is decremented by two whenever the RLdslgdata.dslg_cnt attribute is decremented and the RLfc_porttyp.servclass is PSX25_T1.

Note: The RLdslgdata.dslg_cnt attribute is also incremented and decremented when a BRI D or B channel is assigned or unassigned respectively to a DSL group. Therefore, the exact count of TSIU time slots occupied by XAT nailups can be determine by the number of ports in this SM which have a servclass equal to PSX25_T1 and lp_type equal to PCXAT in the RLfc_porttyp relation.

For an SM-2000, this field is not used and must be 0. XATs can only be nailed-up within an SM or within an SM-2000. Since the path is intra-SM, the path does not use network side TSIU time slots on an SM-2000.

**Attribute:**
pp_tsiu
**Fullname:**
Number of TSIU network side time slots occupied by Packet Pipe (PP).
**Attribute Description:**
Number of TSIU network side time slots occupied by Packet Pipe (PP) nailups on this SM. Default is 0.

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**Attribute:**
ccs_tsiu
**Fullname:**
Number of TSIU network side time slots occupied by CCS signaling nailups on this SM.
**Attribute Description:**
Number of TSIU network side time slots occupied by CCS signaling nailups on this SM.

**Attribute:**
ism_umb
**Fullname:**
Number of umbilical time slots occupied by ISM nailups.
**Attribute Description:**
Number of umbilical time slots occupied by ISM nailups on the SM specified in the key, module.

This attribute is incremented when a tuple is added to RLismpath in this SM and one of the following conditions is true.

1) the RLmodatt.imtype for this SM is SM5RSM and the RLmodatt.imtype for RLismpath.mate_sm is NOT SM5RSM.
2) the RLmodatt.imtype for this SM is SM5RSM and the RLmodatt.imtype for the RLismpath.mate_sm is SM5RSM but the RLmodatt.clid attributes of the two RSMs do NOT match (the RSMs are in different clusters).

Populate this attribute with value of 0 if the RLmodatt.imtype for this sm is not SM5RSM.

When a tuple is deleted from RLismpath, the checks mentioned here must be made to determine if this attribute can be decremented.

**Attribute:**
ism_icl
**Fullname:**
Number of TSIU network side time slots occupied by ISM nailups on intra-cluster links.
**Attribute Description:**
Number of TSIU network side time slots occupied by ISM nailups on intra-cluster links (ICLs).

This number is incremented for every tuple added to RLismpath in this SM and the following condition is true.

1) the RLmodatt.imtype for this SM is SM5RSM and the RLmodatt.imtype for the RLismpath.mate_sm is SM5RSM and the RLmodatt.clid attributes of the two RSMs do match (the RSMs are in the same cluster).

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Populate this attribute with value of 0 if the RLmodatt.imtype for this sm is not SM5RSM.

This number is decremented for every tuple deleted from RLismpath in this SM and the condition is true.

**Attribute:**
edsl[*]shlf
**Fullname:**
Number of PSU PIDB/PCT time slots occupied by PRI and OSPS EDSL D-channel nailups.
**Attribute Description:**
Number of PSU PIDB/PCT time slots occupied by PRI and OSPS EDSL D-channel nailups on this SM. Up to 4 PIDBs or 1 PCT link may exist per shelf and the count is accumulated on a per PSU shelf basis with a maximum of 5 shelves, numbered 0 - 4.

For every increment of RLdslgdata.dslg_cnt, one edsl_shlf[] entry must be incremented, if servclass is FC_EDSL, OA_IFOPER, or OA_IFTERM. To determine which PSU shelf a dsl_group resides on, divide RLdslgdata.dsl_group by 16 (or shift RLdslgdata.dsl_group right 4 positions): the remaining quotient is the index to the edsl_shlf[] array.

For every decrement of RLdslgdata.dslg_cnt one of the edsl_shlf[] entries must be decremented, if servclass is FC_EDSL, OA_IFOPER, or OA_IFTERM. To determine which PSU shelf a dsl_group resides on, divide RLdslgdata.dsl_group by 16 (or shift RLdslgdata.dsl_group right 4 positions): the remaining quotient is the index to the edsl_shlf[] array.

**Attribute:**
ism[*]shlf
**Fullname:**
Number of PSU PIDB/PCT time slots occupied by ISM nailups
**Attribute Description:**
Number of PSU PIDB/PCT time slots occupied by ISM nailups. Up to 4 PIDBs or 1 PCT link may exist per shelf and the count is accumulated on a per PSIU shelf basis with a maximum of 5 shelves, numbered 0 - 4.

For every increment of RLdslgdata.ism_cnt, one ism_shlf[] entry must be incremented. To determine which PSIU shelf a logical PH (that is dsl_group) resides on, divide RLdslgdata.dsl_group by 16 (or shift RLdslgdata.dsl_group right 4 positions): the remaining quotient is the index to the ism_shlf[] array. Increment

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the appropriate array element.

For every decrement of RLdslgdata.ism_cnt one of the ism_shlf[] entries must be decremented. To determine which PSIU shelf a logical PH (that is dsl_group) resides on, divide RLdslgdata.dsl_group by 16 (or shift RLdslgdata.dsl_group right 4 positions): the remaining quotient is the index to the ism_shlf[] array. Decrement the appropriate array element.

**Attribute:**
ip[*]shlf
**Fullname:**
Number of PSU PIDB/PCT time slots occupied by IP nailups on this SM.
**Attribute Description:**
Number of PSU PIDB/PCT time slots occupied by IP nailups. Up to 4 PIDBs or 1 PCT link may exist per shelf and the count is accumulated on a per PSU shelf basis with a maximum of 5 shelves, numbered 0 - 4.

For every increment of RLdslgdata.trk_cnt, one ip_shlf[] entry must be incremented. To determine which PSU shelf a dsl_group resides on, divide RLdslgdata.dsl_group by 16 (or shift RLdslgdata.dsl_group right 4 positions): the remaining quotient is the index to the ip_shlf[] array.

For every decrement of RLdslgdata.trk_cnt one of the ip_shlf[] entries must be decremented. To determine which PSU shelf a dsl_group resides on, divide RLdslgdata.dsl_group by 16 (or shift RLdslgdata.dsl_group right 4 positions): the remaining quotient is the index to the ip_shlf[] array.

**Attribute:**
x75[*]shlf
**Fullname:**
number of PSU PIDB/PCT time slots occupied by X.75 nailups.
**Attribute Description:**
Number of PSU PIDB/PCT time slots occupied by X.75 nailups. Up to 4 PIDBs or 1 PCT link may exist per PSU shelf and the count is accumulated on a per PSU shelf basis with a maximum of 5 shelves, numbered 0 - 4.

For every increment of RLdslgdata.x75_cnt, one x75_shlf[] entry must be incremented. To determine which PSU shelf a dsl_group resides on, divide RLdslgdata.dsl_group by 16 (or shift RLdslgdata.dsl_group right 4 positions): the remaining quotient is the index to the x75_shlf[] array.

For every decrement of RLdslgdata.x75_cnt one of the x75_shlf[] entries must be decremented. To determine

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which PSU shelf a dsl_group resides on, divide RLdslgdata.dsl_group by 16 (or shift RLdslgdata.dsl_group right 4 positions): the remaining quotient is the index to the x75_shlf[] array.

**Attribute:**
x75p[*]shlf
**Fullname:**
Number of PSU PIDB/PCT time slots occupied by X.75' nailups.
**Attribute Description:**
Number of PIDB/PCT shelf 0 time slots occupied by X.75' nailups. Up to 4 PIDBs or 1 PCT link may exist per shelf and the count is accumulated on a per PSU shelf basis with a maximum of 5 shelves number 0 - 4.

For every increment/decrement of RLdslgdata.x75p_cnt, one x75p_shlf[] entry must be incremented/decremented. To determine which PSU shelf a dsl_group resides on, divide RLdslgdata.dsl_group by 16: the remaining quotient is the index to the x75p_shlf[] array.

**Attribute:**
bri[*]shlf
**Fullname:**
Number of PSU PIDB/PCT time slots occupied by cut through BRIs.
**Attribute Description:**
Number of PSU PIDB/PCT time slots occupied by cut through BRIs. Up to 4 PIDBs or 1 PCT link may exist per PSU shelf and the count is accumulated on a per shelf basis with a maximum of 5 shelves, numbered 0 - 4.

**Attribute:**
xat[*]shlf
**Fullname:**
XAT nailup PSU shelf PIDB/PCT time slot count.
**Attribute Description:**
Number of PSU shelf PIDB/PCT time slots occupied by XAT nailups. Up to 4 PIDBs or 1 PCT link may exist per shelf and the count is accumulated on a per PSU shelf basis.

For every increment of RLdslgdata.dslg_cnt, where the servclass is to PSX25_T1 and lp_type is equal to PCXAT in the RLfc_porttyp relation, one edsl_shlf[] entry must be incremented.
To determine which PSU shelf a logical PH (that is dsl_group) resides on, divide RLdslgdata.dsl_group by 16 (or shift RLdslgdata.dsl_group right 4 positions), the remaining quotient is the index to the xat_shlf[] array.
Increment the appropriate array element, which in this case is xat_shlf[n].

For every decrement of RLdslgdata.dslg_cnt, where the servclass is

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to PSX25_T1 and lp_type is equal to PCXAT in the RLfc_porttyp relation, one of the edsl_shlf[] entries must be decremented. To determine which PSU shelf a logical PH (that is dsl_group) resides on, divide RLdslgdata.dsl_group by 16 (or shift RLdslgdata.dsl_group right 4 positions), the remaining quotient is the index to the xat_shlf[] array.
Decrement the appropriate array element, wich in this case is xat_shlf[n].

**Attribute:**
rpa[*]shlf
**Fullname:**
Remote Protocol Access PSU PIDB/PCT time slots occupied for this PSU shelf.
**Attribute Description:**
This attribute is used by the Remote Protocol Access feature to keep track of the number of PSU PIDB/PCT time slots that are reserved by RPA BRI monitor sessions on this SM. The count is accumulated on a per PSU/PCT shelf basis and the valid values are 0, 2, 4 or 6. The PSU PIDB/PCT time slots used by RPA are reserved from the available PIDB/PCT time slots on a given PH shelf and are not part of the PSU nail-up time slots. The sum of RLpsiupidb.shts_di0 + RLpsiupidb.shts_di1 + RLpsiupidb.rpa_ts for each PSU shelf must be <= (RLpsiupidb.oper_pidb * 32) or they must be <= 768 time slots in the case where PCT link is used in place of the PIDBs.

**Attribute:**
pp[*]shlf
**Fullname:**
Number of PSU PIDB/PCT time slots occupied by PP nailups.
**Attribute Description:**
Number of PSU PIDB/PCT time slots occupied by PP nailups on this SM. The count is accumulated on a per PSU shelf basis. Default is 0.

**Attribute:**
sh[*]shlf
**Fullname:**
Number of PSU PIDB/PCT time slots occupied by Speech Handler (SH) nailups.
**Attribute Description:**
Number of PSU PIDB/PCT time slots occupied by SH nailups on this SM. The count is accumulated on a per PSU shelf basis. Default is 0.

**Attribute:**
ccs[*]shlf
**Fullname:**

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Number of PSU PIDB/PCT time slots occupied by CCS signaling nailups.

**Attribute Description:**

Number of PSU PIDB/PCT time slots occupied by CCS signaling nailups on this SM. The count is accumulated on a per PSU shelf basis.

**Attribute:**

eoctmc[*]shlf

**Fullname:**

Number of PSU PIDB/PCT time slots per shelf count for EOC/TMC cut through.

**Attribute Description:**

Number of PSU PIDB/PCT time slots occupied by EOC/TMC on this SM. The count is accumulated on a per PSU shelf basis.

**Attribute:**

odbmin[*]shlf

**Fullname:**

Minimum number of on demand packet-B (ODB) cut through time slots reserved per shelf.

**Attribute Description:**

Minimum number of on demand packet-B (ODB) time slots reserved on this SM. The count is accumulated on a per PSU shelf basis.

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# TSGRPLMT

## 1. Description

This relation contains the number of the TSGRPs that the XAIU can have.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 31 |
| expected tuples in relation | 20 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
TSGRPLMT    relid = 3182  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL


     unit        DMUNITNO     (ushort: 8)       <--- key, not stored
     limit       DMUSHORT     (ushort)
         User and Compacted Tuple Layout   TSGRPLMT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |      unit     |***********************************************|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |              limit            |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )


     limit       DMUSHORT     (ushort)
           Stored Tuple Layout     TSGRPLMT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              limit            |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population rules for RLtsgrplmt

### Relation Description

```
        TSGRP Growth Control Special Feature relation

        TSGRP GROWTH CONTROL
        --------------------
        The TSGRP Growth Control Special Feature provides a mechanism
        to enforce a pricing structure for the XAIU.  This feature will
```

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limit the number of TSGRPs that an XAIU can have based upon how many TSGRPs have been purchased.

**Attribute:**
unit
**Fullname:**
XAIU unit number
**Attribute Description:**
This attribute is the key to this relation and represents the XAIU that the TSGRP limit applies to.

**Attribute:**
limit
**Fullname:**
TSGRP limit
**Attribute Description:**
This attribute represents the maximum number of TSGRPs that the XAIU is allowed to have on each service group.

**Defines:**

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# TSM_BMAP

## 1. Description

This relation provides a bitmap of monitored terminals via the TSM (Telephone Status Monitor and Select) feature and is used by the TM subsystem to refresh lamps after a monitored line initializes.

It shows which TSM_BTN tuples exist for this monitoring port. Each bit is associated with the port. Each bit is associated with the str_param (key into TSM_BTN).

Up to 254 terminals can be monitored by a single terminal, though only 150 will be supported by RC/V in 5e12.1.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 64 |
| expected tuples in relation | 20 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
TSM_BMAP    relid = 2782  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     mlport      DMLPORT      (ushort: 16)    <--- key
     ebitmap1    DMUNS32      (ulong)
     ebitmap2    DMUNS32      (ulong)
     ebitmap3    DMUNS32      (ulong)
     ebitmap4    DMUNS32      (ulong)
     ebitmap5    DMUNS32      (ulong)
     ebitmap6    DMUNS32      (ulong)
     ebitmap7    DMUNS32      (ulong)
     ebitmap8    DMUNS32      (ulong)

         User, Compacted and Stored Tuple Layout   TSM_BMAP
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              mlport           |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             ebitmap1                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                             ebitmap2                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                             ebitmap3                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                             ebitmap4                          |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                             ebitmap5                          |
    |---------------+---------------+---------------+---------------|
```

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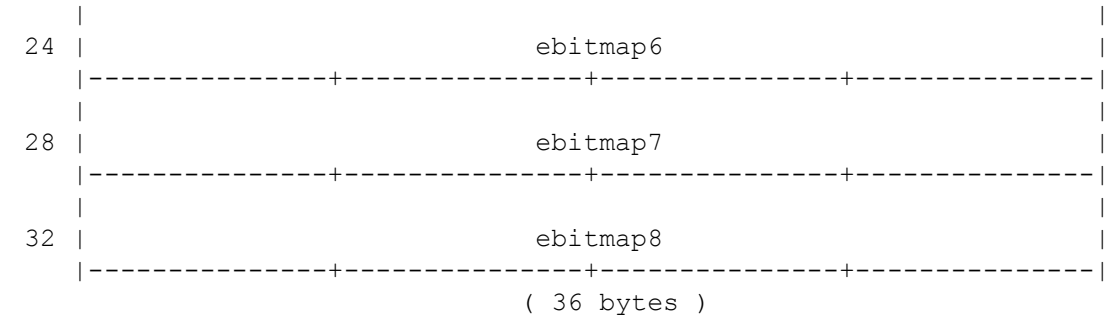


## 4. Population rules for RLtsm_bmap

### Relation Description

Telephone Status Monitor and Select (TSM) bit map.
This relation provides a bitmap of monitored terminals.
It is used by Terminal Maintenance any time the monitoring terminal is initialized. It is used to identify which TSM lamps are being used by the terminal. Each bit in the bitmap represents one stored parameter value. These stored parameter values then provide the keys to the rlTSM_BTN tuples for this monitoring terminal. rlTSM_BTN identifies which port is being monitored by that button/stored parameter.

**Attribute:**
mlport
**Fullname:**
Monitoring port
**Attribute Description:**
This attribute is the key to the relation and identifies the logical port of the monitoring terminal.

**Attribute:**
ebitmap1
**Fullname:**
Monitored bitmap 1
**Attribute Description:**
A bit map representation of the str_param values in use by TSM on this mlport. This 32 bit bitmap identifies str_param 1 thru 31 (bit 0 is not used).

**Attribute:**
ebitmap2
**Fullname:**
Monitored bitmap 2
**Attribute Description:**
A bit map representation of the str_param values in use by TSM on this mlport. This 32 bit bitmap identifies str_param 32 thru 63.

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**Attribute:**
ebitmap3
**Fullname:**
Monitored bitmap 3
**Attribute Description:**
A bit map representation of the str_param values in use by TSM on this mlport. This 32 bit bitmap identifies str_param 64 thru 95.

**Attribute:**
ebitmap4
**Fullname:**
Monitored bitmap 4
**Attribute Description:**
A bit map representation of the str_param values in use by TSM on this mlport. This 32 bit bitmap identifies str_param 96 thru 127.

**Attribute:**
ebitmap5
**Fullname:**
Monitored bitmap 5
**Attribute Description:**
A bit map representation of the str_param values in use by TSM on this mlport. This 32 bit bitmap identifies str_param 128 thru 159.

**Attribute:**
ebitmap6
**Fullname:**
Monitored bitmap 6
**Attribute Description:**
A bit map representation of the str_param values in use by TSM on this mlport. This 32 bit bitmap identifies str_param 160 thru 191.

**Attribute:**
ebitmap7
**Fullname:**
Monitored bitmap 7
**Attribute Description:**
A bit map representation of the str_param values in use by TSM on this mlport. This 32 bit bitmap identifies str_param 192 thru 223.

**Attribute:**
ebitmap8

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**Fullname:**

Monitored bitmap 8

**Attribute Description:**

A bit map representation of the str_param values in use by TSM on this mlport. This 32 bit bitmap identifies str_param 224 thru 253.

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# TSM_BTN

## 1. Description

Provides relationship between the monitoring terminal and the monitored terminal.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8000 |
| expected number of tuples | 209 |
| density | 23 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
TSM_BTN     relid = 2780  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL

     mlport      DMLPORT      (ushort: 16) <--- key
     str_param   DMFACID      (ushort) <--- key
     eltm_idx    DMLTM_IDX    (ulong: 16)
     button      DMUCHAR      (uchar)
     esm         DMMODULE     (ushort: 8)
 (a) cpe_comp    DMCPECOMP    (uchar: 3)
 (b) eltm_type   DMLTM_TYPE   (enum: 1)
 (c) tsm_dss     DMBOOL       (enum: 1)
     elocdn      DMLOCDN      (struct)
         noc         DMNOC        (ushort: 14)
         digits      DMLOCDIG     (array [ 4 ] of char )
         User, Compacted and Stored Tuple Layout    TSM_BTN
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             mlport            |           str_param           |
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  4 |            eltm_idx           |     button    |      esm      |
    |---------------+---------------+---------------+---------------|
    |     | | |                                                     |
  8 |  a  |b|c|*****************************************************|
    |===============+===========  elocdn ===========+===============|
    |   |                           |                               |
 12 |***|            noc            |             digits            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
 16 |             digits            |*******************************|
    |===============+===============+===============+===============|
       ( 20 bytes )
```

## 4. Population rules for RLtsm_btn

**Relation Description**

Telephone Status Monitor and Select (TSM) button

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This relation determines the SM, DN, lpt_idx and lpt_type of the monitored terminal from the feature button and cpe_component of the monitoring terminal. The keys into the relation are the lport and stored parameter of the monitoring terminal

**Attribute:**
mlport
**Fullname:**
monitoring port
**Attribute Description:**
This attribute is one of the keys to the relation and identifies the logical port of the monitoring terminal.

**Attribute:**
str_param
**Fullname:**
stored parameter
**Attribute Description:**
This attribute is the one of the keys to the relation and is the stored parameter value. This value is a random number managed and stored internally by Recent Change which maps to the associated TSM feature button for the monitored terminal.

**Attribute:**
cpe_comp
**Fullname:**
CPE component
**Attribute Description:**
This attribute is the CPE component of the monitoring terminal. This attribute, along with the button number of the monitoring terminal, determines the feature button associated with a monitored terminal.

**Attribute:**
button
**Fullname:**
button number
**Attribute Description:**
This attribute is the button number on the monitoring terminal. This attribute, along with the cpe component of the monitoring terminal, determines the feature button associated with a monitored terminal.

**Attribute:**
tsm_dss
**Fullname:**

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TSM Direct Station Selection (DSS)

**Attribute Description:**

This attribute determines whether the terminal is allowed to use the TSM button for DSS.

**Attribute:**

elocdn

**Fullname:**

directory number of the monitored port

**Attribute Description:**

This attribute is the directory number of the monitored terminal associated with the TSM feature button of the monitoring terminal.

**Attribute:**

esm

**Fullname:**

SM of the monitored port

**Attribute Description:**

This attribute is the switching module of the monitored terminal that is associated with the TSM feature button of the monitoring terminal.

**Attribute:**

eltm_idx

**Fullname:**

ltm_idx of the monitored terminal

**Attribute Description:**

This attribute is the logical termination index of the monitored terminal associated with the TSM feature button of the monitoring terminal.

**Attribute:**

eltm_type

**Fullname:**

ltm_type of the monitored terminal

**Attribute Description:**

This attribute is the logical termination index of the monitored terminal associated with the TSM feature button of the monitoring terminal.

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# TSM_UMAP

## 1. Description

This relation is used only by Recent Change to manage holes in the str_param value of rlBNFEAT for TSM (Telephone Status Monitor and Status). The usemap fields identify which str_param values are being used by this config group so the holes can be reused as TSM buttons are deleted.

The str_pram is only managed internally and is not displayed on the RC view. The str_param is used a key (along with the monitoring lport) to rlTSM_BTN which identifies the monitored DN.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 400 |
| expected tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
TSM_UMAP    relid = 2781  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCMAP
     config      DMCONFIG     (ulong: 12)    <--- key
     usemap1     DMUNS32      (ulong)
     usemap2     DMUNS32      (ulong)
     usemap3     DMUNS32      (ulong)
     usemap4     DMUNS32      (ulong)
     usemap5     DMUNS32      (ulong)
     usemap6     DMUNS32      (ulong)
     usemap7     DMUNS32      (ulong)
     usemap8     DMUNS32      (ulong)

         User, Compacted and Stored Tuple Layout   TSM_UMAP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |                                       |
  0 |         config        |***************************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                            usemap1                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  8 |                            usemap2                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 12 |                            usemap3                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                            usemap4                            |
    |---------------+---------------+---------------+---------------|
    |                                                               |
 20 |                            usemap5                            |
    |---------------+---------------+---------------+---------------|
```

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```
    |                                                                |
 24 |                          usemap6                               |
    |--------------+--------------+--------------+--------------|
    |                                                                |
 28 |                          usemap7                               |
    |--------------+--------------+--------------+--------------|
    |                                                                |
 32 |                          usemap8                               |
    |--------------+--------------+--------------+--------------|
       ( 36 bytes )
```

## 4. Population rules for RLtsm_umap

### Relation Description

TSM monitored terminal to monitoring terminal
This relation is used only by Recent Change
to manage holes in the str_param value of
rlBNFEAT for TSM (Telephone Status Monitor and Status).
The usemap fields identify which
str_param values are being used by this
config group so the holes can be reused as TSM
buttons are deleted.
The str_pram is only managed internally and is
not displayed on the RC view. The str_param is
used a key (along with the monitoring lport) to
rlTSM_BTN which identifies the monitored DN.

**Attribute:**
config
**Fullname:**
button configuration
**Attribute Description:**
ISDN configuration identifier.
The same as in RLrc_cfgbm.config.
Initially, this number must be assigned sequentially.
Hole-reuse is also implemented.
Must be created and put in RLfacname.facid and
RLfid2name.facid before being assigned to RLis_term.config.

**Attribute:**
usemap1
**Fullname:**
**Attribute Description:**
A bit map representation of the str_param
for str_param 1 thru 31 (bit 0 is not used).

**Attribute:**
usemap2
**Fullname:**
**Attribute Description:**

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A bit map representation of the str_param
for str_param 32 thru 63.

**Attribute:**
usemap3
**Fullname:**
**Attribute Description:**
A bit map representation of the str_param
for str_param 64 thru 95.

**Attribute:**
usemap4
**Fullname:**
**Attribute Description:**
A bit map representation of the str_param
for str_param 96 thru 127.

**Attribute:**
usemap5
**Fullname:**
**Attribute Description:**
A bit map representation of the str_param
for str_param 128 thru 159.

**Attribute:**
usemap6
**Fullname:**
**Attribute Description:**
A bit map representation of the str_param
for str_param 160 thru 191.

**Attribute:**
usemap7
**Fullname:**
**Attribute Description:**
A bit map representation of the str_param
for str_param 192 thru 223.

**Attribute:**
usemap8
**Fullname:**
**Attribute Description:**
A bit map representation of the str_param
for str_param 224 thru 253.

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# TSMA_G

## 1. Description

This is the storage relation for the TSM monitoring terminal (RLtsmtring).

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 27000 |
| expected tuples | 5400 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FPFG |
| relation type | DBSTORAGE |
| ks key store | AUTO |
| foldtype | DBGC31 |
| gkidxrel reverse index | rlTSMA_I |

## 3. Field Layout

```
TSMA_G      relid = 2776  DBSTORAGE  DBACC_GK    DBPRAM    FPFG    NULL

     gkTSMA_G    DMGK15       (ulong: 15) <--- key, not stored
     tsmbptr0    DMGK14       (ulong: 14)
     tsmbptr1    DMGK14       (ulong: 14)
     tsmbptr2    DMGK14       (ulong: 14)
     tsmbptr3    DMGK14       (ulong: 14)
     tsmbptr4    DMGK14       (ulong: 14)
     tsmbptr5    DMGK14       (ulong: 14)
     tsmbptr6    DMGK14       (ulong: 14)
     tsmbptr7    DMGK14       (ulong: 14)
         User and Compacted Tuple Layout     TSMA_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|           gkTSMA_G            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
  4 |           tsmbptr0            |           tsmbptr1            |*******|
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
  8 |           tsmbptr2            |           tsmbptr3            |*******|
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
 12 |           tsmbptr4            |           tsmbptr5            |*******|
    |---------------+---------------+---------------+---------------|
    |                               |                               |       |
 16 |           tsmbptr6            |           tsmbptr7            |*******|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )

     tsmbptr0    DMGK14       (ulong: 14)
     tsmbptr1    DMGK14       (ulong: 14)
     tsmbptr2    DMGK14       (ulong: 14)
     tsmbptr3    DMGK14       (ulong: 14)
     tsmbptr4    DMGK14       (ulong: 14)
```

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```
    tsmbptr5    DMGK14       (ulong: 14)
    tsmbptr6    DMGK14       (ulong: 14)
    tsmbptr7    DMGK14       (ulong: 14)
          Stored Tuple Layout   TSMA_G
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                          GK LINK FIELD                        |
   |---------------+---------------+---------------+---------------|
   |                               |                               |       |
 4 |           tsmbptr0            |           tsmbptr1            |*******|
   |---------------+---------------+---------------+---------------|
   |                               |                               |       |
 8 |           tsmbptr2            |           tsmbptr3            |*******|
   |---------------+---------------+---------------+---------------|
   |                               |                               |       |
12 |           tsmbptr4            |           tsmbptr5            |*******|
   |---------------+---------------+---------------+---------------|
   |                               |                               |       |
16 |           tsmbptr6            |           tsmbptr7            |*******|
   |---------------+---------------+---------------+---------------|
      ( 20 bytes )
```

## 4. Population rules for RLtsma_g

There are no population rules for this relation.

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# TSMB_G

## 1. Description

The storage relation for RLtsm_tring contains four monterm terminals. This is a child storage relation .

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10000 |
| expected tuples in relation | 500 |
| access type | DBACC_GK |
| memory type | DBPRAM |
| distribution | FPFG |
| relation type | DBSTORAGE |
| ks key store | DBNO |
| foldtype | DBGC31 |
| permutation type | perm |
| gkidxrel - generated key index relation | rlTSMB_I |

## 3. Field Layout

```
TSMB_G      relid = 2777  DBSTORAGE  DBACC_GK    DBPRAM    FPFG    NULL

     gkTSMB_G    DMGK14       (ulong: 14) <--- key, not stored
     mtrm0       DMMONTERM    (struct)
         mlport      DMLPORT      (ushort: 16)
         button      DMUCHAR      (uchar)
 (a)     cpe_comp    DMCPECOMP    (uchar: 3)
 (b)     tsm_ping    DMBOOL       (enum: 1)
     mtrm1       DMMONTERM    (struct)
         mlport      DMLPORT      (ushort: 16)
         button      DMUCHAR      (uchar)
 (c)     cpe_comp    DMCPECOMP    (uchar: 3)
 (d)     tsm_ping    DMBOOL       (enum: 1)
     mtrm2       DMMONTERM    (struct)
         mlport      DMLPORT      (ushort: 16)
         button      DMUCHAR      (uchar)
 (e)     cpe_comp    DMCPECOMP    (uchar: 3)
 (f)     tsm_ping    DMBOOL       (enum: 1)
     mtrm3       DMMONTERM    (struct)
         mlport      DMLPORT      (ushort: 16)
         button      DMUCHAR      (uchar)
 (g)     cpe_comp    DMCPECOMP    (uchar: 3)
 (h)     tsm_ping    DMBOOL       (enum: 1)
         User and Compacted Tuple Layout     TSMB_G
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                               |
  0 |*********************************|          gkTSMB_G             |
    |===============+============ mtrm0 ============+===============|
    |                                 |               |     | |       |
  4 |             mlport              |     button    |  a  |b|*******|
    |===============+============ mtrm1 ============+===============|
    |                                 |               |     | |       |
  8 |             mlport              |     button    |  c  |d|*******|
    |===============+============ mtrm2 ============+===============|
```

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```
    |                               |               |     | |       |
 12 |             mlport            |     button    |  e  |f|*******|
    |===============+============ mtrm3 ============+===============|
    |                               |               |     | |       |
 16 |             mlport            |     button    |  g  |h|*******|
    |===============+===============+===============+===============|
       ( 20 bytes )

    mtrm0       DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMUCHAR      (uchar)
(a)     cpe_comp    DMCPECOMP    (uchar: 3)
(b)     tsm_ping    DMBOOL       (enum: 1)
    mtrm1       DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMUCHAR      (uchar)
(c)     cpe_comp    DMCPECOMP    (uchar: 3)
(d)     tsm_ping    DMBOOL       (enum: 1)
    mtrm2       DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMUCHAR      (uchar)
(e)     cpe_comp    DMCPECOMP    (uchar: 3)
(f)     tsm_ping    DMBOOL       (enum: 1)
    mtrm3       DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMUCHAR      (uchar)
(g)     cpe_comp    DMCPECOMP    (uchar: 3)
(h)     tsm_ping    DMBOOL       (enum: 1)
          Stored Tuple Layout   TSMB_G
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                                                               |
 0 |                          GK LINK FIELD                        |
   |===============+============ mtrm0 ============+===============|
   |                               |               |     | |       |
 4 |             mlport            |     button    |  a  |b|*******|
   |===============+============ mtrm1 ============+===============|
   |                               |               |     | |       |
 8 |             mlport            |     button    |  c  |d|*******|
   |===============+============ mtrm2 ============+===============|
   |                               |               |     | |       |
12 |             mlport            |     button    |  e  |f|*******|
   |===============+============ mtrm3 ============+===============|
   |                               |               |     | |       |
16 |             mlport            |     button    |  g  |h|*******|
   |===============+===============+===============+===============|
      ( 20 bytes )
```

## 4. Population rules for RLtsmb_g

There are no population rules for this relation.

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# TSMI_R

## 1. Description

This relation contains a list of TSM monitoring terminals assigned to a TSM monitored terminal.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 262112 |
| expected number of tuples | 80 |
| density | 40 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FPFG |
| relation type | DBSTORAGE |
| ks key store | AUTO |

## 3. Field Layout

```
TSMI_R      relid = 2775  DBSTORAGE  DBACC_CIND  DBPRAM    FPFG    NULL
     esm         DMMODULE     (ushort: 8)    <--- key, not stored
 (a) eltm_type   DMLTM_TYPE   (enum: 1)    <--- key, not stored
     eltm_idx    DMLTM_IDX    (ulong: 16)    <--- key, not stored
     x_strparm0  DMFACID      (ushort)
     x_strparm1  DMFACID      (ushort)
     x_strparm2  DMFACID      (ushort)
     x_strparm3  DMFACID      (ushort)
     x_strparm4  DMFACID      (ushort)
     x_strparm5  DMFACID      (ushort)
     x_strparm6  DMFACID      (ushort)
     x_strparm7  DMFACID      (ushort)
     x_strparm8  DMFACID      (ushort)
     x_strparm9  DMFACID      (ushort)
     x_strparm10  DMFACID      (ushort)
     x_strparm11  DMFACID      (ushort)
     x_strparm12  DMFACID      (ushort)
     x_strparm13  DMFACID      (ushort)
     x_strparm14  DMFACID      (ushort)
     x_strparm15  DMFACID      (ushort)
     x_strparm16  DMFACID      (ushort)
     x_strparm17  DMFACID      (ushort)
     x_strparm18  DMFACID      (ushort)
     x_strparm19  DMFACID      (ushort)
     x_strparm20  DMFACID      (ushort)
     x_strparm21  DMFACID      (ushort)
     x_strparm22  DMFACID      (ushort)
     x_strparm23  DMFACID      (ushort)
     x_strparm24  DMFACID      (ushort)
     x_strparm25  DMFACID      (ushort)
     x_strparm26  DMFACID      (ushort)
     x_strparm27  DMFACID      (ushort)
     x_strparm28  DMFACID      (ushort)
     x_strparm29  DMFACID      (ushort)
     x_strparm30  DMFACID      (ushort)
     x_strparm31  DMFACID      (ushort)
     tsmptr      DMGK15       (ulong: 15)
```

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```
    msm0        DMMODULE     (ushort: 8)
    msm1        DMMODULE     (ushort: 8)
    msm2        DMMODULE     (ushort: 8)
    msm3        DMMODULE     (ushort: 8)
    msm4        DMMODULE     (ushort: 8)
    msm5        DMMODULE     (ushort: 8)
    msm6        DMMODULE     (ushort: 8)
    msm7        DMMODULE     (ushort: 8)
    msm8        DMMODULE     (ushort: 8)
    msm9        DMMODULE     (ushort: 8)
    msm10       DMMODULE     (ushort: 8)
    msm11       DMMODULE     (ushort: 8)
    msm12       DMMODULE     (ushort: 8)
    msm13       DMMODULE     (ushort: 8)
    msm14       DMMODULE     (ushort: 8)
    msm15       DMMODULE     (ushort: 8)
    msm16       DMMODULE     (ushort: 8)
    msm17       DMMODULE     (ushort: 8)
    msm18       DMMODULE     (ushort: 8)
    msm19       DMMODULE     (ushort: 8)
    msm20       DMMODULE     (ushort: 8)
    msm21       DMMODULE     (ushort: 8)
    msm22       DMMODULE     (ushort: 8)
    msm23       DMMODULE     (ushort: 8)
    msm24       DMMODULE     (ushort: 8)
    msm25       DMMODULE     (ushort: 8)
    msm26       DMMODULE     (ushort: 8)
    msm27       DMMODULE     (ushort: 8)
    msm28       DMMODULE     (ushort: 8)
    msm29       DMMODULE     (ushort: 8)
    msm30       DMMODULE     (ushort: 8)
    msm31       DMMODULE     (ushort: 8)
    count       DMUNS6       (ushort: 6)
        User and Compacted Tuple Layout     TSMI_R
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               | |                               |             |
 0 |      esm      |a|            eltm_idx           |*************|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |           x_strparm0          |           x_strparm1          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |           x_strparm2          |           x_strparm3          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |           x_strparm4          |           x_strparm5          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |           x_strparm6          |           x_strparm7          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |           x_strparm8          |           x_strparm9          |
```

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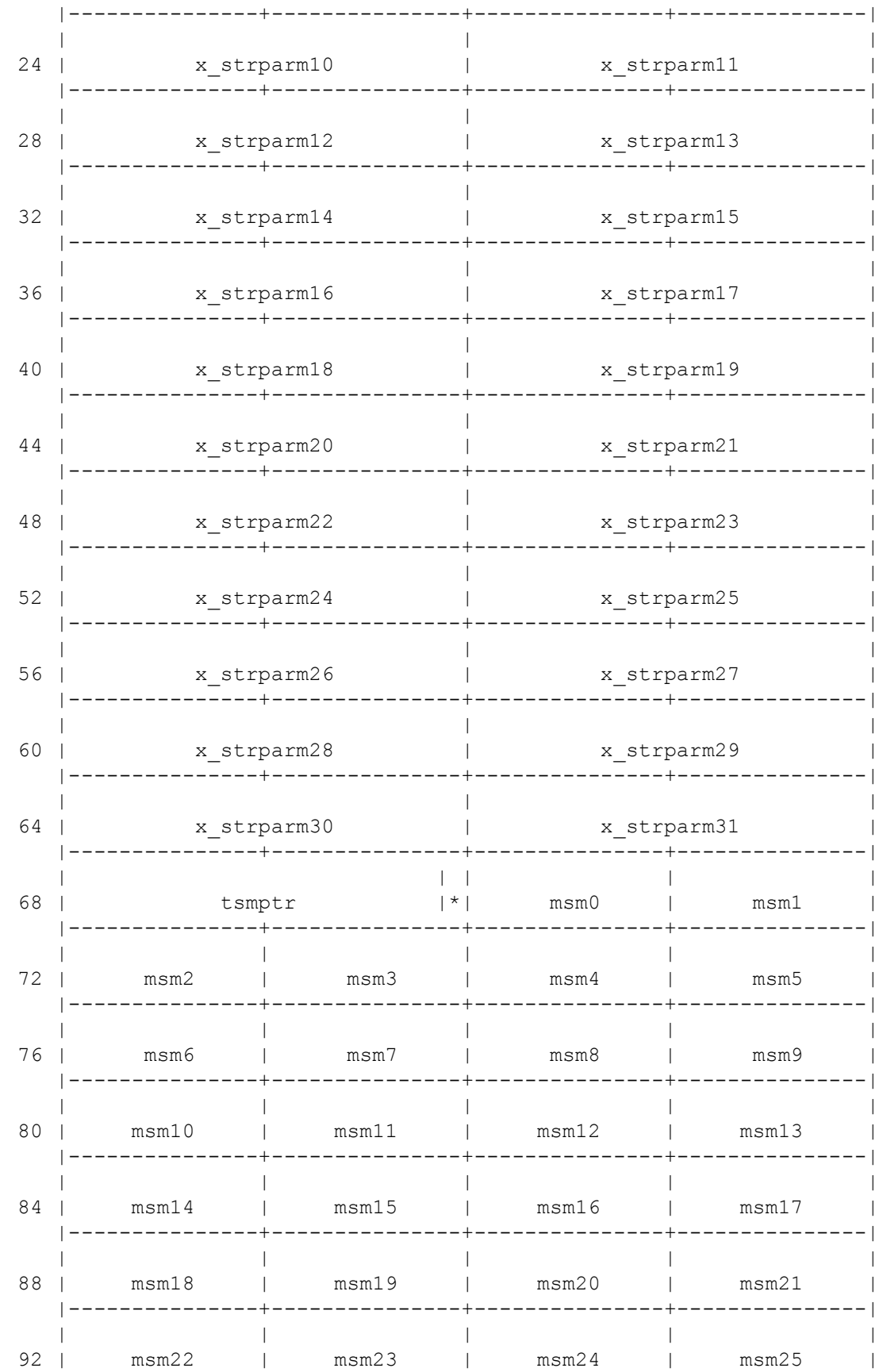


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```
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
 96 |     msm26     |     msm27     |     msm28     |     msm29     |
    |---------------+---------------+---------------+---------------|
    |               |               |           |                   |
100 |     msm30     |     msm31     |   count   |*******************|
    |---------------+---------------+---------------+---------------|
      ( 104 bytes )
     x_strparm0  DMFACID      (ushort)
     x_strparm1  DMFACID      (ushort)
     x_strparm2  DMFACID      (ushort)
     x_strparm3  DMFACID      (ushort)
     x_strparm4  DMFACID      (ushort)
     x_strparm5  DMFACID      (ushort)
     x_strparm6  DMFACID      (ushort)
     x_strparm7  DMFACID      (ushort)
     x_strparm8  DMFACID      (ushort)
     x_strparm9  DMFACID      (ushort)
     x_strparm10  DMFACID      (ushort)
     x_strparm11  DMFACID      (ushort)
     x_strparm12  DMFACID      (ushort)
     x_strparm13  DMFACID      (ushort)
     x_strparm14  DMFACID      (ushort)
     x_strparm15  DMFACID      (ushort)
     x_strparm16  DMFACID      (ushort)
     x_strparm17  DMFACID      (ushort)
     x_strparm18  DMFACID      (ushort)
     x_strparm19  DMFACID      (ushort)
     x_strparm20  DMFACID      (ushort)
     x_strparm21  DMFACID      (ushort)
     x_strparm22  DMFACID      (ushort)
     x_strparm23  DMFACID      (ushort)
     x_strparm24  DMFACID      (ushort)
     x_strparm25  DMFACID      (ushort)
     x_strparm26  DMFACID      (ushort)
     x_strparm27  DMFACID      (ushort)
     x_strparm28  DMFACID      (ushort)
     x_strparm29  DMFACID      (ushort)
     x_strparm30  DMFACID      (ushort)
     x_strparm31  DMFACID      (ushort)
     tsmptr       DMGK15       (ulong: 15)
     msm0         DMMODULE     (ushort: 8)
     msm1         DMMODULE     (ushort: 8)
     msm2         DMMODULE     (ushort: 8)
     msm3         DMMODULE     (ushort: 8)
     msm4         DMMODULE     (ushort: 8)
     msm5         DMMODULE     (ushort: 8)
     msm6         DMMODULE     (ushort: 8)
     msm7         DMMODULE     (ushort: 8)
     msm8         DMMODULE     (ushort: 8)
     msm9         DMMODULE     (ushort: 8)
     msm10        DMMODULE     (ushort: 8)
     msm11        DMMODULE     (ushort: 8)
     msm12        DMMODULE     (ushort: 8)
```

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```
    msm13       DMMODULE     (ushort: 8)
    msm14       DMMODULE     (ushort: 8)
    msm15       DMMODULE     (ushort: 8)
    msm16       DMMODULE     (ushort: 8)
    msm17       DMMODULE     (ushort: 8)
    msm18       DMMODULE     (ushort: 8)
    msm19       DMMODULE     (ushort: 8)
    msm20       DMMODULE     (ushort: 8)
    msm21       DMMODULE     (ushort: 8)
    msm22       DMMODULE     (ushort: 8)
    msm23       DMMODULE     (ushort: 8)
    msm24       DMMODULE     (ushort: 8)
    msm25       DMMODULE     (ushort: 8)
    msm26       DMMODULE     (ushort: 8)
    msm27       DMMODULE     (ushort: 8)
    msm28       DMMODULE     (ushort: 8)
    msm29       DMMODULE     (ushort: 8)
    msm30       DMMODULE     (ushort: 8)
    msm31       DMMODULE     (ushort: 8)
    count       DMUNS6       (ushort: 6)
          Stored Tuple Layout   TSMI_R
   |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |           x_strparm0          |           x_strparm1          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |           x_strparm2          |           x_strparm3          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 8 |           x_strparm4          |           x_strparm5          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
12 |           x_strparm6          |           x_strparm7          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
16 |           x_strparm8          |           x_strparm9          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
20 |          x_strparm10          |          x_strparm11          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
24 |          x_strparm12          |          x_strparm13          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
28 |          x_strparm14          |          x_strparm15          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
32 |          x_strparm16          |          x_strparm17          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
36 |          x_strparm18          |          x_strparm19          |
   |---------------+---------------+---------------+---------------|
```

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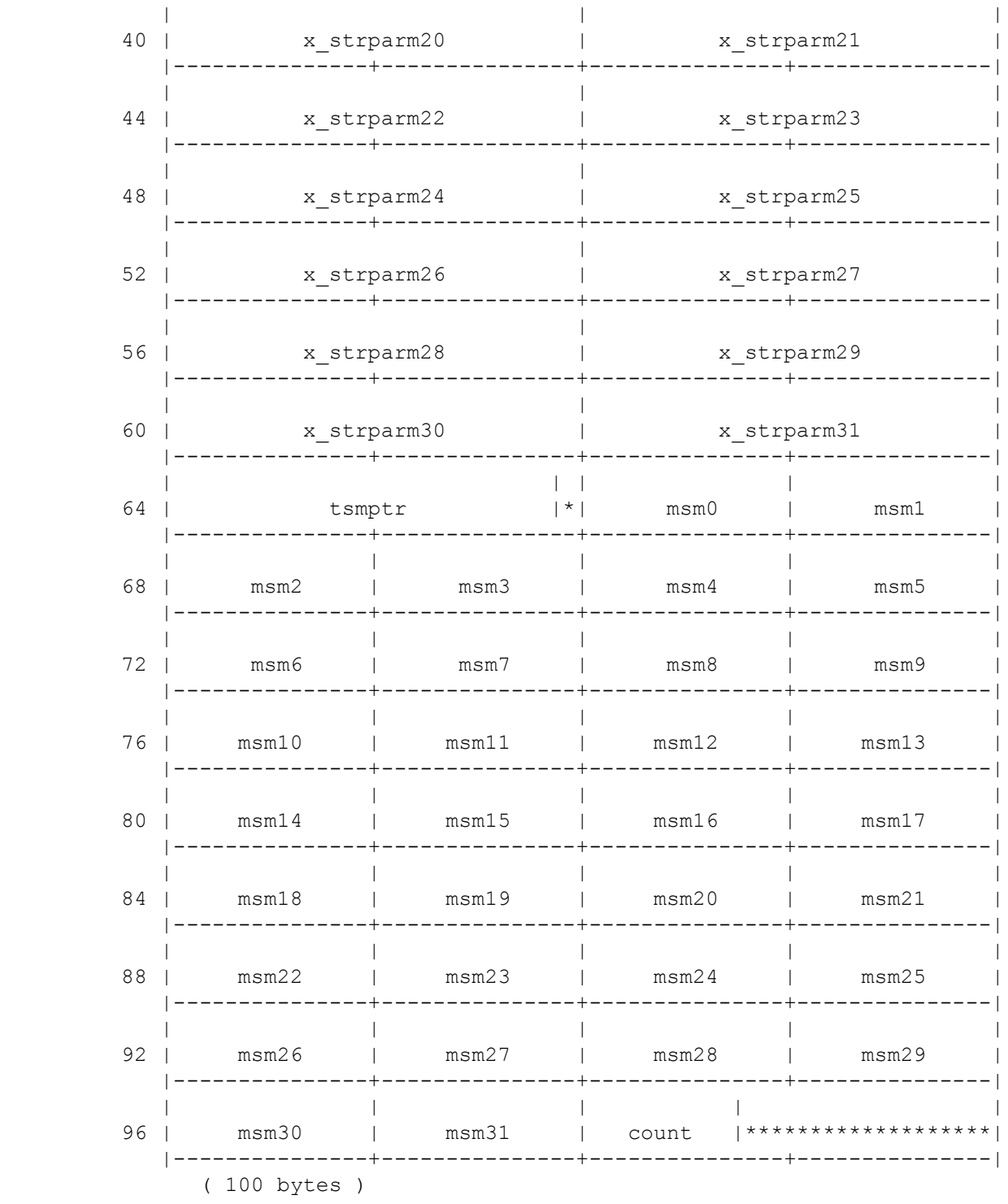


## 4. Population Rules for RLtsmi_r

There are no population rules for this relation.

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# TSMTRING

## 1. Description

This relation Provides relationship between TSM monitored terminals to monitoring terminals.
This relation determines the lports and SMs of terminals that are using TSM to monitor a given terminal. It is used to determine which ports to send messages to when monitored terminal status changes. A terminal can be monitored by up to 32 monitoring terminals.

This is a virtual update relation. The tree diagram 1 depicts the stored structure of virtual relation TSMTRING.

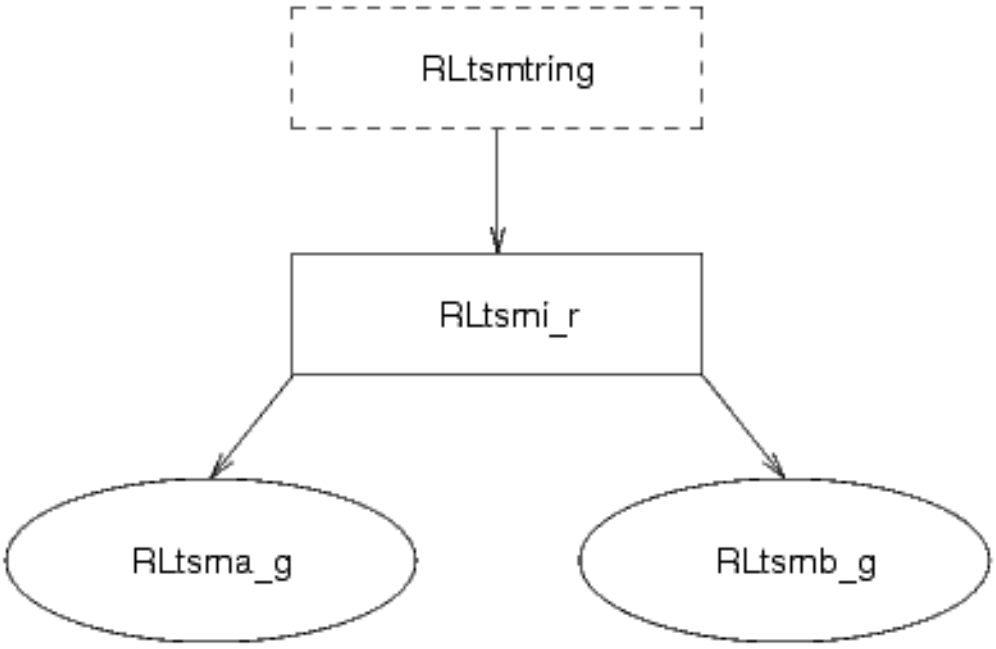


**Figure 1 Stored Structure of Virtual Relation TSMTRING**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FPFG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
TSMTRING    relid = 2774  DBSTATIC   DBACC_OPV   DBNOTODD  FPFG    NULL
     esm          DMMODULE      (ushort: 8)     <--- key
 (a) eltm_type    DMLTM_TYPE    (enum: 1)     <--- key
     eltm_idx     DMLTM_IDX     (ulong: 16)     <--- key
     msm0         DMMODULE      (ushort: 8)
     msm1         DMMODULE      (ushort: 8)
     msm2         DMMODULE      (ushort: 8)
     msm3         DMMODULE      (ushort: 8)
     msm4         DMMODULE      (ushort: 8)
     msm5         DMMODULE      (ushort: 8)
     msm6         DMMODULE      (ushort: 8)
     msm7         DMMODULE      (ushort: 8)
```

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```
msm8         DMMODULE     (ushort: 8)
msm9         DMMODULE     (ushort: 8)
msm10        DMMODULE     (ushort: 8)
msm11        DMMODULE     (ushort: 8)
msm12        DMMODULE     (ushort: 8)
msm13        DMMODULE     (ushort: 8)
msm14        DMMODULE     (ushort: 8)
msm15        DMMODULE     (ushort: 8)
msm16        DMMODULE     (ushort: 8)
msm17        DMMODULE     (ushort: 8)
msm18        DMMODULE     (ushort: 8)
msm19        DMMODULE     (ushort: 8)
msm20        DMMODULE     (ushort: 8)
msm21        DMMODULE     (ushort: 8)
msm22        DMMODULE     (ushort: 8)
msm23        DMMODULE     (ushort: 8)
msm24        DMMODULE     (ushort: 8)
msm25        DMMODULE     (ushort: 8)
msm26        DMMODULE     (ushort: 8)
msm27        DMMODULE     (ushort: 8)
msm28        DMMODULE     (ushort: 8)
msm29        DMMODULE     (ushort: 8)
msm30        DMMODULE     (ushort: 8)
msm31        DMMODULE     (ushort: 8)
x_strparm0   DMFACID      (ushort)
x_strparm1   DMFACID      (ushort)
x_strparm2   DMFACID      (ushort)
x_strparm3   DMFACID      (ushort)
x_strparm4   DMFACID      (ushort)
x_strparm5   DMFACID      (ushort)
x_strparm6   DMFACID      (ushort)
x_strparm7   DMFACID      (ushort)
x_strparm8   DMFACID      (ushort)
x_strparm9   DMFACID      (ushort)
x_strparm10   DMFACID      (ushort)
x_strparm11   DMFACID      (ushort)
x_strparm12   DMFACID      (ushort)
x_strparm13   DMFACID      (ushort)
x_strparm14   DMFACID      (ushort)
x_strparm15   DMFACID      (ushort)
x_strparm16   DMFACID      (ushort)
x_strparm17   DMFACID      (ushort)
x_strparm18   DMFACID      (ushort)
x_strparm19   DMFACID      (ushort)
x_strparm20   DMFACID      (ushort)
x_strparm21   DMFACID      (ushort)
x_strparm22   DMFACID      (ushort)
x_strparm23   DMFACID      (ushort)
x_strparm24   DMFACID      (ushort)
x_strparm25   DMFACID      (ushort)
x_strparm26   DMFACID      (ushort)
x_strparm27   DMFACID      (ushort)
x_strparm28   DMFACID      (ushort)
x_strparm29   DMFACID      (ushort)
```

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```
    x_strparm30  DMFACID      (ushort)
    x_strparm31  DMFACID      (ushort)
    count       DMUNS6       (ushort: 6)
    mtrm0       DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(b)     cpe_comp    DMCPECOMP    (uchar: 3)
(c)     tsm_ping    DMBOOL       (enum: 1)
    mtrm1       DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(d)     cpe_comp    DMCPECOMP    (uchar: 3)
(e)     tsm_ping    DMBOOL       (enum: 1)
    mtrm2       DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(f)     cpe_comp    DMCPECOMP    (uchar: 3)
(g)     tsm_ping    DMBOOL       (enum: 1)
    mtrm3       DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(h)     cpe_comp    DMCPECOMP    (uchar: 3)
(i)     tsm_ping    DMBOOL       (enum: 1)
    mtrm4       DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(j)     cpe_comp    DMCPECOMP    (uchar: 3)
(k)     tsm_ping    DMBOOL       (enum: 1)
    mtrm5       DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(l)     cpe_comp    DMCPECOMP    (uchar: 3)
(m)     tsm_ping    DMBOOL       (enum: 1)
    mtrm6       DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(n)     cpe_comp    DMCPECOMP    (uchar: 3)
(o)     tsm_ping    DMBOOL       (enum: 1)
    mtrm7       DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(p)     cpe_comp    DMCPECOMP    (uchar: 3)
(q)     tsm_ping    DMBOOL       (enum: 1)
    mtrm8       DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(r)     cpe_comp    DMCPECOMP    (uchar: 3)
(s)     tsm_ping    DMBOOL       (enum: 1)
    mtrm9       DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(t)     cpe_comp    DMCPECOMP    (uchar: 3)
(u)     tsm_ping    DMBOOL       (enum: 1)
    mtrm10      DMMONTERM    (struct)
```

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```
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(v)     cpe_comp    DMCPECOMP    (uchar: 3)
(w)     tsm_ping    DMBOOL       (enum: 1)
    mtrm11      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(x)     cpe_comp    DMCPECOMP    (uchar: 3)
(y)     tsm_ping    DMBOOL       (enum: 1)
    mtrm12      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(z)     cpe_comp    DMCPECOMP    (uchar: 3)
(A)     tsm_ping    DMBOOL       (enum: 1)
    mtrm13      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(B)     cpe_comp    DMCPECOMP    (uchar: 3)
(C)     tsm_ping    DMBOOL       (enum: 1)
    mtrm14      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(D)     cpe_comp    DMCPECOMP    (uchar: 3)
(E)     tsm_ping    DMBOOL       (enum: 1)
    mtrm15      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(F)     cpe_comp    DMCPECOMP    (uchar: 3)
(G)     tsm_ping    DMBOOL       (enum: 1)
    mtrm16      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(H)     cpe_comp    DMCPECOMP    (uchar: 3)
(I)     tsm_ping    DMBOOL       (enum: 1)
    mtrm17      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(J)     cpe_comp    DMCPECOMP    (uchar: 3)
(K)     tsm_ping    DMBOOL       (enum: 1)
    mtrm18      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(L)     cpe_comp    DMCPECOMP    (uchar: 3)
(M)     tsm_ping    DMBOOL       (enum: 1)
    mtrm19      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(N)     cpe_comp    DMCPECOMP    (uchar: 3)
(O)     tsm_ping    DMBOOL       (enum: 1)
    mtrm20      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(P)     cpe_comp    DMCPECOMP    (uchar: 3)
(Q)     tsm_ping    DMBOOL       (enum: 1)
```

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```
    mtrm21      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(R)     cpe_comp    DMCPECOMP    (uchar: 3)
(S)     tsm_ping    DMBOOL       (enum: 1)
    mtrm22      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(T)     cpe_comp    DMCPECOMP    (uchar: 3)
(U)     tsm_ping    DMBOOL       (enum: 1)
    mtrm23      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(V)     cpe_comp    DMCPECOMP    (uchar: 3)
(W)     tsm_ping    DMBOOL       (enum: 1)
    mtrm24      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(X)     cpe_comp    DMCPECOMP    (uchar: 3)
(Y)     tsm_ping    DMBOOL       (enum: 1)
    mtrm25      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(Z)     cpe_comp    DMCPECOMP    (uchar: 3)
(a)     tsm_ping    DMBOOL       (enum: 1)
    mtrm26      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(b)     cpe_comp    DMCPECOMP    (uchar: 3)
(c)     tsm_ping    DMBOOL       (enum: 1)
    mtrm27      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(d)     cpe_comp    DMCPECOMP    (uchar: 3)
(e)     tsm_ping    DMBOOL       (enum: 1)
    mtrm28      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(f)     cpe_comp    DMCPECOMP    (uchar: 3)
(g)     tsm_ping    DMBOOL       (enum: 1)
    mtrm29      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(h)     cpe_comp    DMCPECOMP    (uchar: 3)
(i)     tsm_ping    DMBOOL       (enum: 1)
    mtrm30      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(j)     cpe_comp    DMCPECOMP    (uchar: 3)
(k)     tsm_ping    DMBOOL       (enum: 1)
    mtrm31      DMMONTERM    (struct)
        mlport      DMLPORT      (ushort: 16)
        button      DMBUTTON     (uchar: 8)
(l)     cpe_comp    DMCPECOMP    (uchar: 3)
```

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```
(m)     tsm_ping    DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout   TSMTRING
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               | |                               |             |
 0 |      esm      |a|            eltm_idx           |*************|
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 4 |      msm0     |      msm1     |      msm2     |      msm3     |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
 8 |      msm4     |      msm5     |      msm6     |      msm7     |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
12 |      msm8     |      msm9     |     msm10     |     msm11     |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
16 |     msm12     |     msm13     |     msm14     |     msm15     |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
20 |     msm16     |     msm17     |     msm18     |     msm19     |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
24 |     msm20     |     msm21     |     msm22     |     msm23     |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
28 |     msm24     |     msm25     |     msm26     |     msm27     |
   |---------------+---------------+---------------+---------------|
   |               |               |               |               |
32 |     msm28     |     msm29     |     msm30     |     msm31     |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
36 |           x_strparm0          |           x_strparm1          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
40 |           x_strparm2          |           x_strparm3          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
44 |           x_strparm4          |           x_strparm5          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
48 |           x_strparm6          |           x_strparm7          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
52 |           x_strparm8          |           x_strparm9          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
56 |          x_strparm10          |          x_strparm11          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
60 |          x_strparm12          |          x_strparm13          |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
```

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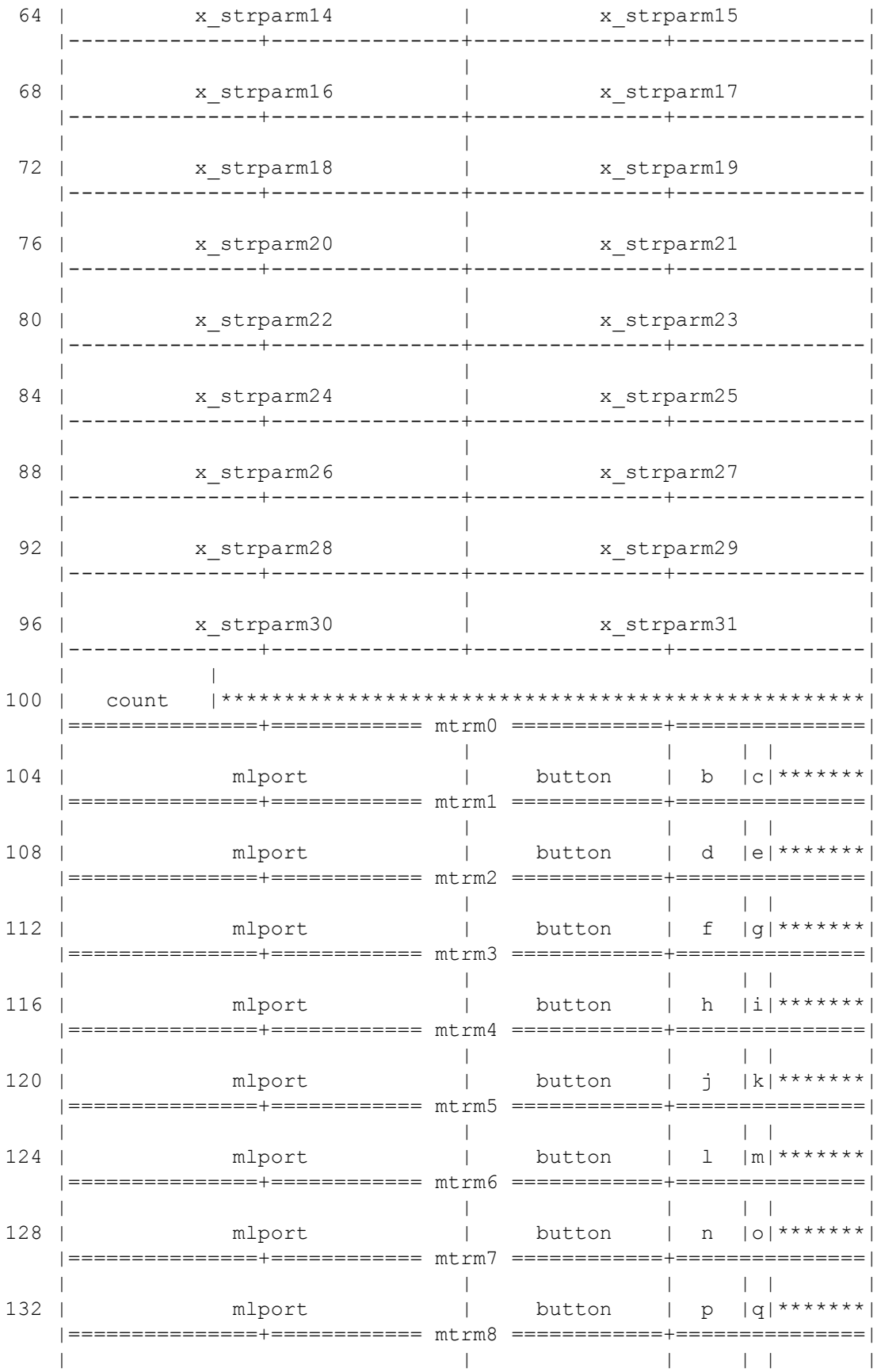
x_strparm14
x_strparm15
x_strparm16
x_strparm17
x_strparm18
x_strparm19
x_strparm20
x_strparm21
x_strparm22
x_strparm23
x_strparm24
x_strparm25
x_strparm26
x_strparm27
x_strparm28
x_strparm29
x_strparm30
x_strparm31
count
mtrm0
mtrm1
mtrm2
mtrm3
mtrm4
mtrm5
mtrm6
mtrm7
mtrm8
mlport
button
b
c
d
e
f
g
h
i
j
k
l
m
n
o
p
q

```
136 |              mlport             |     button    |  r  |s|*******|
    |===============+============ mtrm9 ============+===============|
    |                                 |               |     | |       |
140 |              mlport             |     button    |  t  |u|*******|
    |===============+============  mtrm10 ===========+===============|
    |                                 |               |     | |       |
144 |              mlport             |     button    |  v  |w|*******|
    |===============+============  mtrm11 ===========+===============|
    |                                 |               |     | |       |
148 |              mlport             |     button    |  x  |y|*******|
    |===============+============  mtrm12 ===========+===============|
    |                                 |               |     | |       |
152 |              mlport             |     button    |  z  |A|*******|
    |===============+============  mtrm13 ===========+===============|
    |                                 |               |     | |       |
156 |              mlport             |     button    |  B  |C|*******|
    |===============+============  mtrm14 ===========+===============|
    |                                 |               |     | |       |
160 |              mlport             |     button    |  D  |E|*******|
    |===============+============  mtrm15 ===========+===============|
    |                                 |               |     | |       |
164 |              mlport             |     button    |  F  |G|*******|
    |===============+============  mtrm16 ===========+===============|
    |                                 |               |     | |       |
168 |              mlport             |     button    |  H  |I|*******|
    |===============+============  mtrm17 ===========+===============|
    |                                 |               |     | |       |
172 |              mlport             |     button    |  J  |K|*******|
    |===============+============  mtrm18 ===========+===============|
    |                                 |               |     | |       |
176 |              mlport             |     button    |  L  |M|*******|
    |===============+============  mtrm19 ===========+===============|
    |                                 |               |     | |       |
180 |              mlport             |     button    |  N  |O|*******|
    |===============+============  mtrm20 ===========+===============|
    |                                 |               |     | |       |
184 |              mlport             |     button    |  P  |Q|*******|
    |===============+============  mtrm21 ===========+===============|
    |                                 |               |     | |       |
188 |              mlport             |     button    |  R  |S|*******|
    |===============+============  mtrm22 ===========+===============|
    |                                 |               |     | |       |
192 |              mlport             |     button    |  T  |U|*******|
    |===============+============  mtrm23 ===========+===============|
    |                                 |               |     | |       |
196 |              mlport             |     button    |  V  |W|*******|
    |===============+============  mtrm24 ===========+===============|
    |                                 |               |     | |       |
200 |              mlport             |     button    |  X  |Y|*******|
    |===============+============  mtrm25 ===========+===============|
    |                                 |               |     | |       |
204 |              mlport             |     button    |  Z  |a|*******|
    |===============+============  mtrm26 ===========+===============|
    |                                 |               |     | |       |
```

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```
208 |              mlport             |     button     |  b  |c|*******|
    |===============+===========  mtrm27 ===========+===============|
    |                                 |                |     | |       |
212 |              mlport             |     button     |  d  |e|*******|
    |===============+===========  mtrm28 ===========+===============|
    |                                 |                |     | |       |
216 |              mlport             |     button     |  f  |g|*******|
    |===============+===========  mtrm29 ===========+===============|
    |                                 |                |     | |       |
220 |              mlport             |     button     |  h  |i|*******|
    |===============+===========  mtrm30 ===========+===============|
    |                                 |                |     | |       |
224 |              mlport             |     button     |  j  |k|*******|
    |===============+===========  mtrm31 ===========+===============|
    |                                 |                |     | |       |
228 |              mlport             |     button     |  l  |m|*******|
    |===============+===============+===============+===============|
       ( 232 bytes )
```

## 4. Population Rules for RLtsmtring

**Relation Description** TSM monitored terminal to monitoring terminal

Provides relationship between TSM monitored terminals to monitoring terminals. This relation determines the lports and SMs of terminals that are using TSM to monitor a given terminal. It is used to determine which ports to send messages to when monitored terminal status changes. A terminal can be monitored by up to 32 monitoring terminals.

**Attribute: esm**

**Fullname:** TSM monitored's switching module.

**Attribute Description** This attribute is the monitored's switching module for the Terminal Status Monitoring feature. (key)

**Attribute: eltm_type**

**Fullname:** Logical termination type of the monitored terminal

**Attribute Description** This attribute is the Logical termination type of the monitored terminal (key)

**Attribute: eltm_idx**

**Fullname:** Logical termination index of the monitored terminal

**Attribute Description** This attribute is the Logical termination index of the monitored terminal (key)

**Attribute: msm[*]**

**Fullname:** Monitoring Switching Module

**Attribute Description** This attribute is the switching module number of the monitoring terminals. msm0 thru msm31 must be filled sequentially without gaps.

**Attribute: x_strparm[*]**

**Fullname:** rlBNFEAT Stored Parameter in hex

**Attribute Description** This attribute is the value of the rlBNFEAT str_param that is associated with the monitoring terminals. x_strparm0 thru x_strparm31 must be filled sequentially without gaps.

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**Attribute: count**

**Fullname:** count

**Attribute Description** This attribute is the count of the number of monitoring terminals in this relation. (that is, if the count is 10, then
the attributes msm0 thru msm9,
mtrm0.monterm0 thru mtrm0.monterm3,
mtrm1.monterm0 thru mtrm1.monterm3, and
mtrm2.monterm0 thru mtrm2.monterm1
will have monitoring terminal data.

**Attribute: mtrm[*]**

**Fullname:** monitoring terminal structure

**Attribute Description** This attribute is the monitoring terminal structure that contains the mlport, button, cpe_comp and tsm_ping. The mtrm[*] represents mtrm0 thru mtrm7 and the monterm[*] represents monterm0 thru monterm3. This allows up to 32 monitoring ISDN terminals of a single monitored terminal.

**Attribute: mtrm[*].mlport**

**Fullname:** monitoring terminal logical port number

**Attribute Description** This attribute is the monitoring terminal logical port number

**Attribute: mtrm[*].button**

**Fullname:** monitoring terminal button number

**Attribute Description** This attribute is the button number on the monitoring terminal used to indicate the status of the monitored directory number.

**Attribute: mtrm[*].cpe_comp**

**Fullname:** monitoring terminal Customer Premises Equipment (CPE) component

**Attribute Description** This attribute is the Customer Premises Equipment (CPE) component on the monitoring terminal used to indicate the status of the monitored directory number.

**Attribute: mtrm[*].tsm_ping**

**Fullname:** monitoring terminal ping ring indicator

**Attribute Description** This attribute indicates if a ping ring is heard on the monitoring terminal when the status of the monitored directory changes to ringing.

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# TSP2APP

## 1. Description

This relation maps the circuit name of the transport facility it rides on (such as, a PCDS1SFAC in U.S. or a PCT tributary in INTL) to the circuit name of an application (such as, PCRDTDS1 in U.S. and RISLU2 DFI in INTL). RLtsp2app is the inverse mapping of RLapp2tsp. Note that transport facilities used for trunking will have an entry here, but not in RLapp2tsp, since there is no application unit for them.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1008 |
| expected tuples in relation | 337 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | PCtsp2app_trg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
TSP2APP     relid = 2733  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     tsp_name    DMCIRCUIT    (ushort)    <--- key
     app_name    DMCIRCUIT    (ushort)
     ac_type     DMCKTTYPE    (enum)
     appcntlckt  DMCIRCUIT    (ushort)
     unitno      DMUNITNO     (ushort: 8)
     unittype    DMUNITTYPE   (enum: 7)
 (a) appunit_asgnd  DMBOOL       (enum: 1)
 (b) app_type    DMAPP_TYPE   (enum: 4)
 (c) appcntlside  DMUNS1       (ushort: 1)
         User, Compacted and Stored Tuple Layout    TSP2APP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            tsp_name           |            app_name           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            ac_type            |           appcntlckt          |
    |---------------+---------------+---------------+---------------|
    |               |             | |       | |                   |
  8 |     unitno    |   unittype  |a|   b   |c|*******************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLtsp2app

**Relation Description** Transport Facility to Application Data

This relation maps the circuit name of the transport facility it rides on to the circuit name of an application. It is the inverse mapping of RLapp2tsp. Note that transport facilities used for trunking (that is, they have the "trunk" application) will have an entry here in RLtsp2app (as do all transport facilities), but will NOT have a corresponding

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entry in RLapp2tsp. This happens because RLapp2tsp is keyed by application circuit name, and there is no application circuit for the trunk application.

**Attribute: tsp_name**
**Fullname:** Transport circuit name

**Attribute Description** (key) circuit name of the transport facility.

**Attribute: app_name**
**Fullname:** Application circuit name

**Attribute Description** Circuit name of the application using the transport facility.

**Attribute: ac_type**
**Fullname:** Application circuit type

**Attribute Description** Circuit type of the application using the transport facility.

**Attribute: app_type**
**Fullname:** Application type

**Attribute Description** Application type of the application using the transport facility.

**Attribute: unitno**
**Fullname:** Application unit number

**Attribute Description** Unit number of the application using the transport facility.

**Attribute: appunit_asgnd**
**Fullname:** Application Unit Assigned Indicator

**Attribute Description** Indicates if this transport has an application unit actually assigned, or is in a "limbo" state. Note that the "app_type" attribute may indicate the type of application to be assigned to this transport (in the near future), even if this attribute indicates it hasn't been assigned yet.

**Attribute: appcntlckt**
**Fullname:** Application Control Circuit name

**Attribute Description** Name of application control circuit subtending to this transport facility (if it exists).

**Attribute: appcntlside**
**Fullname:** Application Control Circuit Side

**Attribute Description** Side (service group number) of the application control circuit subtending to this transport facility (if it exists).

**Attribute: unittype**
**Fullname:** Application unit type

**Attribute Description** Unit type of the application using the transport facility.

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# TSTP2UNIT

## 1. Description

Relation identifies which (R)AIUs are in the remote site which is testable by this Test Application Pack (Test AP) .

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 126 |
| expected number of tuples | 50 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LPFG |
| application | TLWS |
| relation type | DBSTATIC |
| key shift | 0 |
| ks key store | DBNO |

## 3. Field Layout

```
TSTP2UNIT   relid = 2785  DBSTATIC   DBACC_CIND  DBPRAM    LPFG    TLWS
     tstp_name   DMGCIRCUIT   (struct)    <--- key, not stored
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
     sitid       DMRTEIDX     (ushort: 14)
     remote_unit0  DMMETTYPE    (struct)
         circuit0_name  DMCIRCUIT    (ushort)
         circuit1_name  DMCIRCUIT    (ushort)
         circuit0_mod  DMMODULE     (ushort: 8)
         circuit1_mod  DMMODULE     (ushort: 8)
         unittype    DMUNITTYPE   (enum: 7)
         unit_no     DMUNITNO     (ushort: 8)
         sm          DMMODULE     (ushort: 8)
         spare1      DMUNS8       (ushort: 8)
         spare2      DMUNS16      (ushort)
     remote_unit1  DMMETTYPE    (struct)
         circuit0_name  DMCIRCUIT    (ushort)
         circuit1_name  DMCIRCUIT    (ushort)
         circuit0_mod  DMMODULE     (ushort: 8)
         circuit1_mod  DMMODULE     (ushort: 8)
         unittype    DMUNITTYPE   (enum: 7)
         unit_no     DMUNITNO     (ushort: 8)
         sm          DMMODULE     (ushort: 8)
         spare1      DMUNS8       (ushort: 8)
         spare2      DMUNS16      (ushort)
     remote_unit2  DMMETTYPE    (struct)
         circuit0_name  DMCIRCUIT    (ushort)
         circuit1_name  DMCIRCUIT    (ushort)
         circuit0_mod  DMMODULE     (ushort: 8)
         circuit1_mod  DMMODULE     (ushort: 8)
         unittype    DMUNITTYPE   (enum: 7)
         unit_no     DMUNITNO     (ushort: 8)
         sm          DMMODULE     (ushort: 8)
         spare1      DMUNS8       (ushort: 8)
         spare2      DMUNS16      (ushort)
     remote_unit3  DMMETTYPE    (struct)
```

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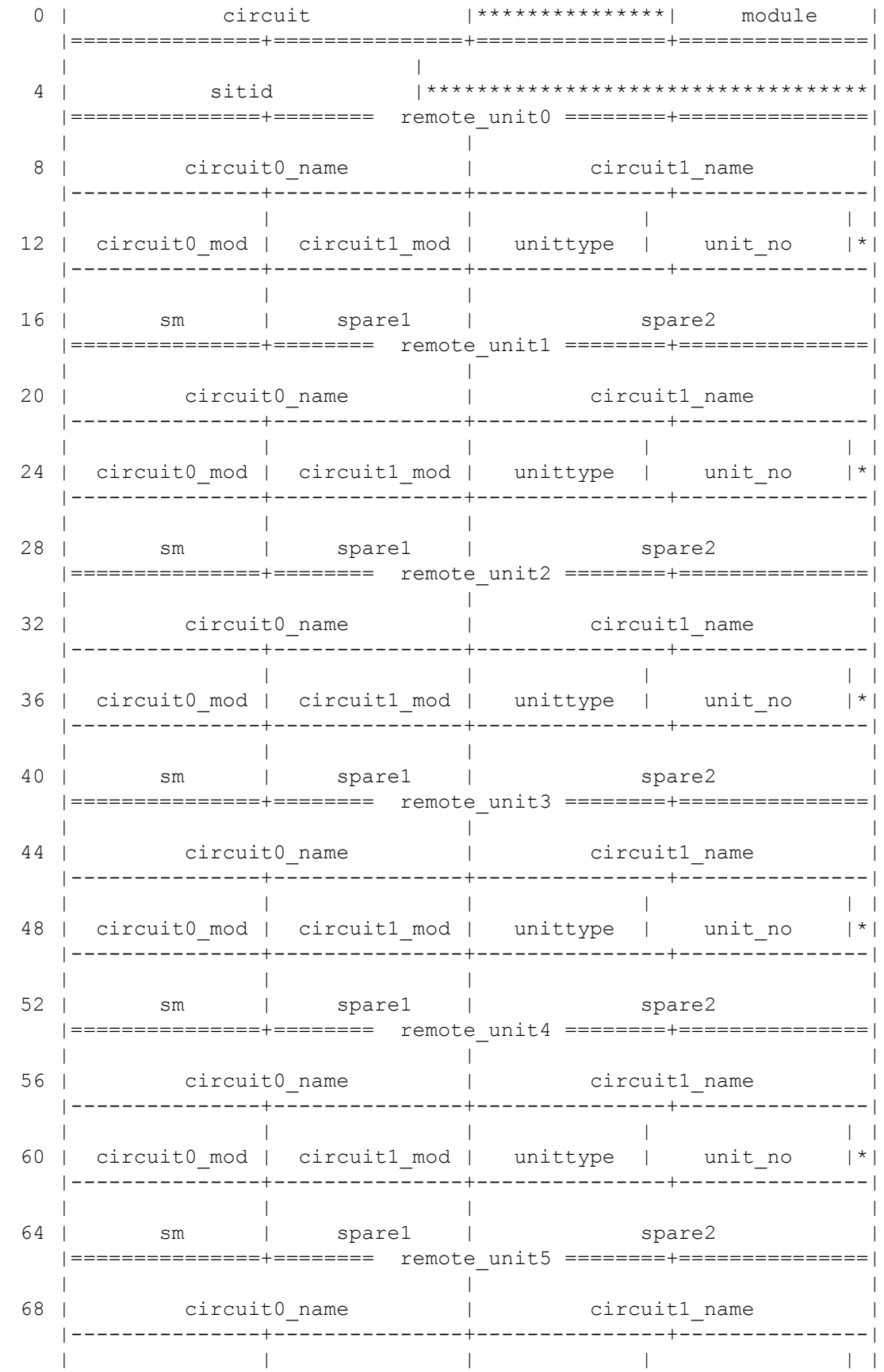
```
        circuit0_name  DMCIRCUIT    (ushort)
        circuit1_name  DMCIRCUIT    (ushort)
        circuit0_mod  DMMODULE     (ushort: 8)
        circuit1_mod  DMMODULE     (ushort: 8)
        unittype    DMUNITTYPE   (enum: 7)
        unit_no     DMUNITNO     (ushort: 8)
        sm          DMMODULE     (ushort: 8)
        spare1      DMUNS8       (ushort: 8)
        spare2      DMUNS16      (ushort)
    remote_unit4  DMMETTYPE    (struct)
        circuit0_name  DMCIRCUIT    (ushort)
        circuit1_name  DMCIRCUIT    (ushort)
        circuit0_mod  DMMODULE     (ushort: 8)
        circuit1_mod  DMMODULE     (ushort: 8)
        unittype    DMUNITTYPE   (enum: 7)
        unit_no     DMUNITNO     (ushort: 8)
        sm          DMMODULE     (ushort: 8)
        spare1      DMUNS8       (ushort: 8)
        spare2      DMUNS16      (ushort)
    remote_unit5  DMMETTYPE    (struct)
        circuit0_name  DMCIRCUIT    (ushort)
        circuit1_name  DMCIRCUIT    (ushort)
        circuit0_mod  DMMODULE     (ushort: 8)
        circuit1_mod  DMMODULE     (ushort: 8)
        unittype    DMUNITTYPE   (enum: 7)
        unit_no     DMUNITNO     (ushort: 8)
        sm          DMMODULE     (ushort: 8)
        spare1      DMUNS8       (ushort: 8)
        spare2      DMUNS16      (ushort)
    remote_unit6  DMMETTYPE    (struct)
        circuit0_name  DMCIRCUIT    (ushort)
        circuit1_name  DMCIRCUIT    (ushort)
        circuit0_mod  DMMODULE     (ushort: 8)
        circuit1_mod  DMMODULE     (ushort: 8)
        unittype    DMUNITTYPE   (enum: 7)
        unit_no     DMUNITNO     (ushort: 8)
        sm          DMMODULE     (ushort: 8)
        spare1      DMUNS8       (ushort: 8)
        spare2      DMUNS16      (ushort)
    remote_unit7  DMMETTYPE    (struct)
        circuit0_name  DMCIRCUIT    (ushort)
        circuit1_name  DMCIRCUIT    (ushort)
        circuit0_mod  DMMODULE     (ushort: 8)
        circuit1_mod  DMMODULE     (ushort: 8)
        unittype    DMUNITTYPE   (enum: 7)
        unit_no     DMUNITNO     (ushort: 8)
        sm          DMMODULE     (ushort: 8)
        spare1      DMUNS8       (ushort: 8)
        spare2      DMUNS16      (ushort)
        User and Compacted Tuple Layout  TSTP2UNIT
|3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
|===============+========== tstp_name ==========+===============|
|                               |              |               |
```

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```
 72 |  circuit0_mod |  circuit1_mod |   unittype  |    unit_no    |*|
    |---------------+---------------+-------------+---------------|
    |               |               |                             |
 76 |       sm      |     spare1    |             spare2          |
    |===============+========  remote_unit6 ========+==============|
    |                                |                             |
 80 |         circuit0_name          |         circuit1_name       |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               | |
 84 |  circuit0_mod |  circuit1_mod |   unittype  |    unit_no    |*|
    |---------------+---------------+-------------+---------------|
    |               |               |                             |
 88 |       sm      |     spare1    |             spare2          |
    |===============+========  remote_unit7 ========+==============|
    |                                |                             |
 92 |         circuit0_name          |         circuit1_name       |    |-----------
----+---------------+---------------+---------------+---------------|
    |               |               |               |               | |
 96 |  circuit0_mod |  circuit1_mod |   unittype  |    unit_no    |*|
    |---------------+---------------+-------------+---------------|
    |               |               |                             |
100 |       sm      |     spare1    |             spare2          |
    |===============+===============+=============+===============|
      ( 104 bytes )
    sitid       DMRTEIDX     (ushort: 14)
    remote_unit0  DMMETTYPE    (struct)
        circuit0_name  DMCIRCUIT    (ushort)
        circuit1_name  DMCIRCUIT    (ushort)
        circuit0_mod  DMMODULE     (ushort: 8)
        circuit1_mod  DMMODULE     (ushort: 8)
        unittype    DMUNITTYPE   (enum: 7)
        unit_no     DMUNITNO     (ushort: 8)
        sm          DMMODULE     (ushort: 8)
        spare1      DMUNS8       (ushort: 8)
        spare2      DMUNS16      (ushort)
    remote_unit1  DMMETTYPE    (struct)
        circuit0_name  DMCIRCUIT    (ushort)
        circuit1_name  DMCIRCUIT    (ushort)
        circuit0_mod  DMMODULE     (ushort: 8)
        circuit1_mod  DMMODULE     (ushort: 8)
        unittype    DMUNITTYPE   (enum: 7)
        unit_no     DMUNITNO     (ushort: 8)
        sm          DMMODULE     (ushort: 8)
        spare1      DMUNS8       (ushort: 8)
        spare2      DMUNS16      (ushort)
    remote_unit2  DMMETTYPE    (struct)
        circuit0_name  DMCIRCUIT    (ushort)
        circuit1_name  DMCIRCUIT    (ushort)
        circuit0_mod  DMMODULE     (ushort: 8)
        circuit1_mod  DMMODULE     (ushort: 8)
        unittype    DMUNITTYPE   (enum: 7)
        unit_no     DMUNITNO     (ushort: 8)
        sm          DMMODULE     (ushort: 8)
        spare1      DMUNS8       (ushort: 8)
```

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```
    spare2      DMUNS16      (ushort)
 remote_unit3  DMMETTYPE    (struct)
    circuit0_name  DMCIRCUIT    (ushort)
    circuit1_name  DMCIRCUIT    (ushort)
    circuit0_mod  DMMODULE     (ushort: 8)
    circuit1_mod  DMMODULE     (ushort: 8)
    unittype    DMUNITTYPE   (enum: 7)
    unit_no     DMUNITNO     (ushort: 8)
    sm          DMMODULE     (ushort: 8)
    spare1      DMUNS8       (ushort: 8)
    spare2      DMUNS16      (ushort)
 remote_unit4  DMMETTYPE    (struct)
    circuit0_name  DMCIRCUIT    (ushort)
    circuit1_name  DMCIRCUIT    (ushort)
    circuit0_mod  DMMODULE     (ushort: 8)
    circuit1_mod  DMMODULE     (ushort: 8)
    unittype    DMUNITTYPE   (enum: 7)
    unit_no     DMUNITNO     (ushort: 8)
    sm          DMMODULE     (ushort: 8)
    spare1      DMUNS8       (ushort: 8)
    spare2      DMUNS16      (ushort)
 remote_unit5  DMMETTYPE    (struct)
    circuit0_name  DMCIRCUIT    (ushort)
    circuit1_name  DMCIRCUIT    (ushort)
    circuit0_mod  DMMODULE     (ushort: 8)
    circuit1_mod  DMMODULE     (ushort: 8)
    unittype    DMUNITTYPE   (enum: 7)
    unit_no     DMUNITNO     (ushort: 8)
    sm          DMMODULE     (ushort: 8)
    spare1      DMUNS8       (ushort: 8)
    spare2      DMUNS16      (ushort)
 remote_unit6  DMMETTYPE    (struct)
    circuit0_name  DMCIRCUIT    (ushort)
    circuit1_name  DMCIRCUIT    (ushort)
    circuit0_mod  DMMODULE     (ushort: 8)
    circuit1_mod  DMMODULE     (ushort: 8)
    unittype    DMUNITTYPE   (enum: 7)
    unit_no     DMUNITNO     (ushort: 8)
    sm          DMMODULE     (ushort: 8)
    spare1      DMUNS8       (ushort: 8)
    spare2      DMUNS16      (ushort)
 remote_unit7  DMMETTYPE    (struct)
    circuit0_name  DMCIRCUIT    (ushort)
    circuit1_name  DMCIRCUIT    (ushort)
    circuit0_mod  DMMODULE     (ushort: 8)
    circuit1_mod  DMMODULE     (ushort: 8)
    unittype    DMUNITTYPE   (enum: 7)
    unit_no     DMUNITNO     (ushort: 8)
    sm          DMMODULE     (ushort: 8)
    spare1      DMUNS8       (ushort: 8)
    spare2      DMUNS16      (ushort)
      Stored Tuple Layout    TSTP2UNIT
|3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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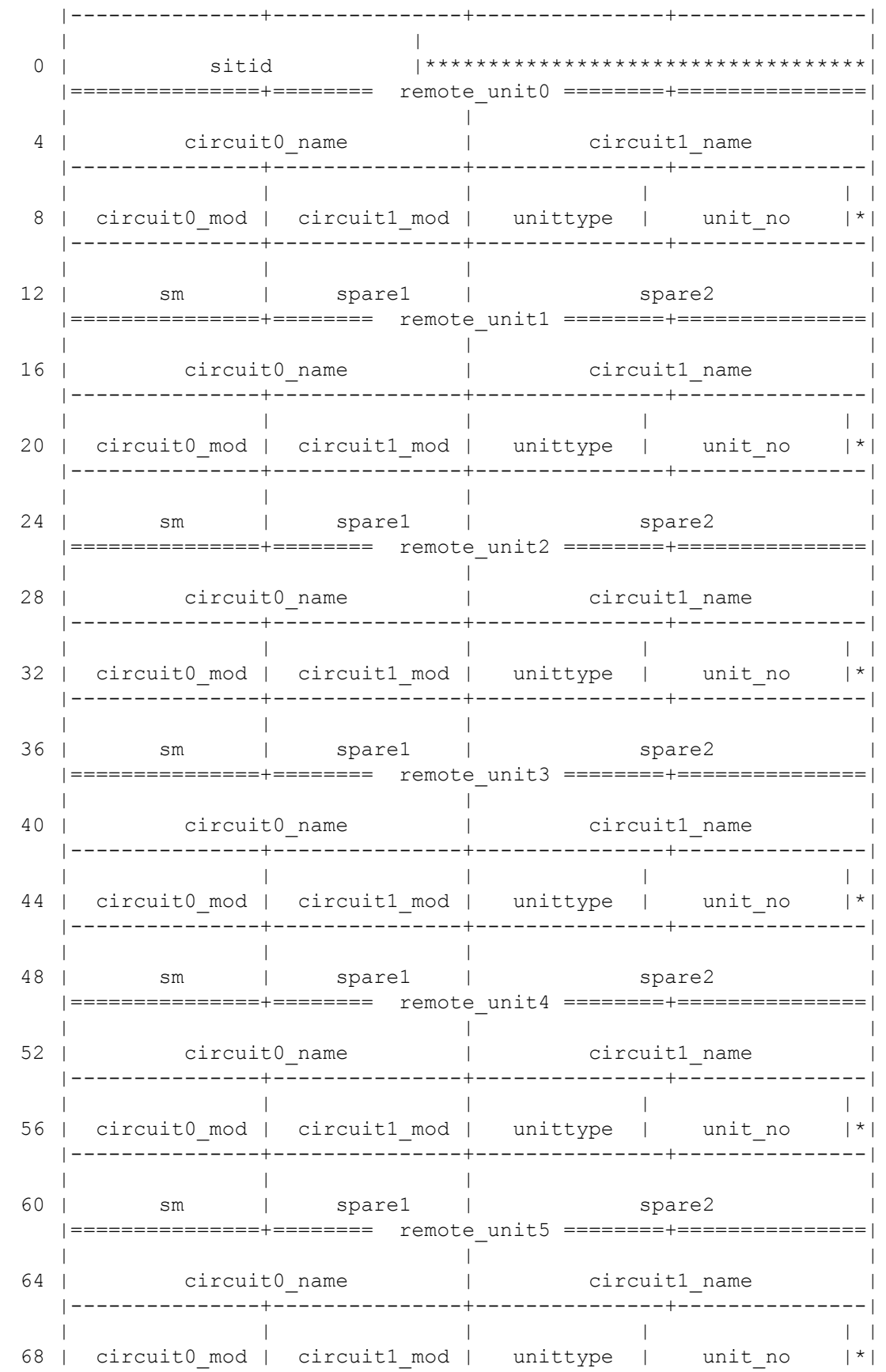


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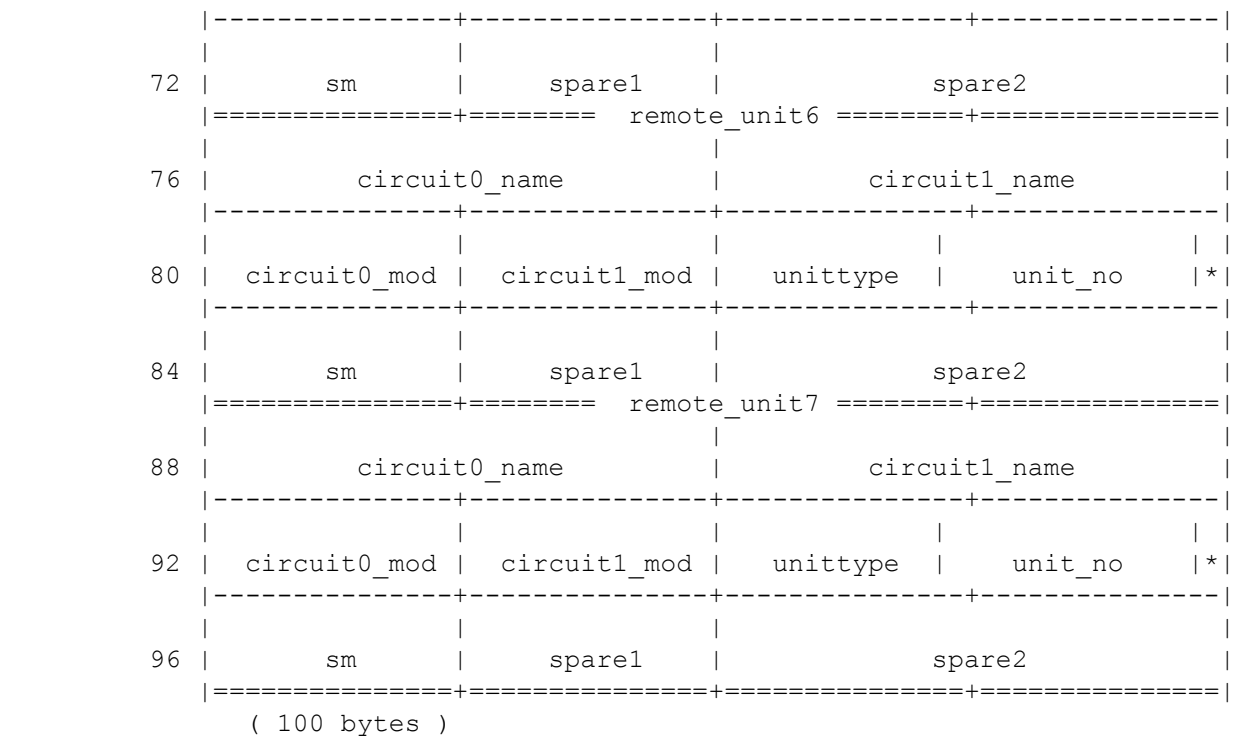


## 4. Population Rules for RLtstp2unit

**Relation Description** Configuration Information about Remote Peripherals(RP) that are testable via a particular Test Application Pack

Poprules in this relation apply to RPs such as RAIU.

This relation is modeled after the RLrpsite relation. Each tuple in this relation represents a single Test AP. Each Test AP is associated with a single remote site and a remote site can have up to eight RPs. A remote site may be hosted by several switching modules; also a switching module may host several remote sites.

**Attribute: sitid**

**Fullname:** Logical remote peripheral site number

**Attribute Description** This is the identification number of the set of RPs which comprise the RP site. RP site numbers may range from 500 through 999. This range (see DMRISITID) is defined so as not to conflict with RSM site numbers (the latter are currently restricted to the range 1-174).

**Attribute: remote_unit[*]**

**Fullname:** SM/RP Numbers Of The Nth RP At The Site

**Attribute Description** These remote member attributes are populated so as to identify the RPs at the RP site, in terms of the hosting SM number (1-192) and the RAIU/RISLU unit number. The "circuit0_name" member of each attribute also indicates what type of test equipment (if any) is connected to the Remote Site Test Bus (RSTB) that is connected to COMDAC 0 of the RAIU. The "circuit1_name" indicates the same for COMDAC 1 of the RAIU.

The remote_unit[0-7] attributes may be listed in any order (no correlation with any physical property is implied). Whenever possible, assigned attribute pairs should be consecutive starting with remote_unit0. If holes develop through degrowth, they should be filled when growing the next RISLU/RAIU. The remote_unit[0-7] attributes can be filled in with any combination of RPs.

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**Defines:** "db/DBtladefs.h",
"db/DMunittype.h",
"db/DMcircuit.h"

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# TTF_CNT

## 1. Description

Count of TTF processor, tone generator, responder, tone detectors, interface, ToucHEXTone test line, DSP's resources available on a per SM basis.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 192 |
| expected tuples in relation | 5 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
TTF_CNT     relid = 2163  DBSTATIC   DBACC_HASH  DBPRAM    LP      RCDATA
     sm          DMMODULE     (ushort: 8)  <--- key
     intf_cnt    DMUCHAR      (uchar)
     tgen_cnt    DMUCHAR      (uchar)
     tttl_cnt    DMUCHAR      (uchar)
     tdsp_cnt    DMUCHAR      (uchar)
     dcut_cnt    DMUCHAR      (uchar)
     dptc_cnt    DMUCHAR      (uchar)
     resp_cnt    DMUCHAR      (uchar)
     mdsp_cnt    DMUCHAR      (uchar)
     proc_cnt    DMUCHAR      (uchar)
         User, Compacted and Stored Tuple Layout    TTF_CNT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  0 |       sm      |    intf_cnt   |    tgen_cnt   |    tttl_cnt   |
    |---------------+---------------+---------------+---------------|
    |               |               |               |               |
  4 |    tdsp_cnt   |    dcut_cnt   |    dptc_cnt   |    resp_cnt   |
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  8 |    mdsp_cnt   |    proc_cnt   |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
domain alTTF_CNT   struct  (2 sub-attributes)
         sm          .1.fake      (ushort)
         cnt         .2.fake      (array [ 9 ] of unsigned char )

         Structure Layout      alTTF_CNT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |                                               |
  0 |       sm      |                     cnt                       |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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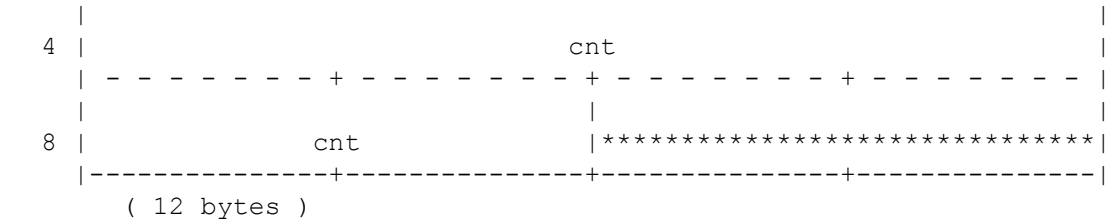


## 4. Population Rules for RLttf_cnt

**Relation Description** Transmission test functions counts relation.

This relation provides the number of resources available of TTF processor, tone generator, responder, tone detectors, interface, ToucHEXTone test line and DSP's on a per SM basis.

**Attribute: sm**

**Fullname:** Switching Module

**Attribute Description** This attribute is the key into the relation. Thus the data populated in this relation is on a per SM basis.

**Attribute: intf_cnt**

**Fullname:** TTF Interface count

**Attribute Description** The value of this attribute provides the number of TTF interface available on a per SM basis.

**Attribute: tgen_cnt**

**Fullname:** TTF Tone Generator count

**Attribute Description** Value of this attribute provides the number of TTF tone generator available on a per SM basis.

**Attribute: tttl_cnt**

**Fullname:** TTF ToucHEXTone test line count

**Attribute Description** Value of this attribute provides the number of TTF ToucHEXTone test line available on a per SM basis.

**Attribute: tdsp_cnt**

**Fullname:** TTF Tone DSP count

**Attribute Description** Value of this attribute provides the number of TTF tone DSP available on a per SM basis.

**Attribute: dcut_cnt**

**Fullname:** TTF port to circuit under test tone detector count

**Attribute Description** Value of this attribute provides the number of TTF port to circuit under test tone detector available on a per SM basis.

**Attribute: dptc_cnt**

**Fullname:** TTF port to carot tone detector count

**Attribute Description** Value of this attribute provides the number of TTF port to carot tone

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detector available on a per SM basis.

**Attribute: resp_cnt**

**Fullname:** TTF Tone Responder count

**Attribute Description** The value of this attribute provides the number of TTF tone responder available on a per SM basis.

**Attribute: mdsp_cnt**

**Fullname:** TTF Measure DSP count

**Attribute Description** Value of this attribute provides the number of TTF measure DSP available on a per SM basis.

**Attribute: proc_cnt**

**Fullname:** TTF Processor count

**Attribute Description** The value of this attribute provides the number of TTF processor available on a per SM basis.

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## 2.21 RELATIONS: U

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# UCNF_CKT

## 1. Description

Universal conference circuit names.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1344 |
| expected tuples in relation | 23 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| density | 32 |

## 3. Field Layout

```
UCNF_CKT    relid = 40    DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     circuit     DMCIRCUIT    (ushort)  <--- key
     unitnum     DMUNITNO     (ushort: 7)
         User, Compacted and Stored Tuple Layout   UCNF_CKT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |             |                 |
  0 |            circuit            |   unitnum   |*****************|
    |---------------+---------------+---------------+---------------|
       ( 4 bytes )
```

## 4. Population Rules for RLucnf_ckt

**Relation Description**
Universal conference circuit names.

For GDSU:
Each TN234 3-port conference circuit board generates 2 tuples for this relation. It also generates 6 CKTDATA tuples. Exactly one of the CKTDATA tuples must have CKTDATA.cktbrd = DBYES. This is the CKTDATA tuple corresponding to port 0 on the TN234 board.

Each TN841 3-port conference circuit board generates 5 tuples for this relation. It also generates 15 CKTDATA tuples. Exactly one of the CKTDATA tuples must have CKTDATA.cktbrd = DBYES. This is the CKTDATA tuple corresponding to port 0 on the TN841 board.

RLcktdata.p does the check for one of the previous tuples to equal DBYES. RLcktdata.p also checks for the correct number of tuples in this relation for the corresponding TN board. Therefore, this relation only checks for tuples in RLcktdata corresponding to the circuit attribute, not for the type of TN board they are associated with.

For GDSF:
each 3-port conference leading circuit generates a tuple for this relation.

**Attribute: circuit**

**Fullname:** Circuit name

**Attribute Description** For GDSU: Each TN234 3-port conference circuit board generates 2 tuples

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for this relation. It also generates 6 CKTDATA tuples. Exactly one of the CKTDATA tuples must have CKTDATA.cktbrd = DBYES; this is the CKTDATA tuple corresponding to port 0 on the TN234 board. The LEAD CIRCUIT NAME is the value of the CKTDATA.name attribute for that tuple. The 2 UCNF_CKT tuples for that board will then have

```
ckt_indx = LEAD CIRCUIT CKT_INDX
ckt_indx = LEAD CIRCUIT CKT_INDX + 3
The check for DBYES and for 2 existing tuples for TN234
is done in RLcktdata.p, not here.
```

Each TN841 3-port conference circuit board generates 5 tuples for this relation. It also generates 15 CKTDATA tuples. Exactly one of the CKTDATA tuples must have

```
CKTDATA.cktbrd = DBYES;
```

this is the CKTDATA tuple corresponding to port 0 on the TN841 board. The LEAD CIRCUIT NAME is the value of the CKTDATA.name attribute for that tuple. The 5 UCNF_CKT tuples for that board will then have

```
ckt_indx = LEAD CIRCUIT CKT_INDX
ckt_indx = LEAD CIRCUIT CKT_INDX + 3
ckt_indx = LEAD CIRCUIT CKT_INDX + 6
ckt_indx = LEAD CIRCUIT CKT_INDX + 9
ckt_indx = LEAD CIRCUIT CKT_INDX + 0xc
The check for DBYES and for 5 existing tuples for TN841
IS DONE IN RLcktdata.p, NOT HERE.
```

For GDSF:
One (1) tuple for each 3-port conference leading circuit.

**Attribute: unitnum**

**Fullname:** Unit number

**Attribute Description** Digital Services Unit Number of the GDSU/GDSF containing the circuit.

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# UN_ONRMK

## 1. Description

Remark assoc. with private on network number view. This is a virtual update relation the root storage relation is RLonrmk_r.G The tree diagram Figure 1 depicts the stored structure of virtual relation UN_ONRMK.

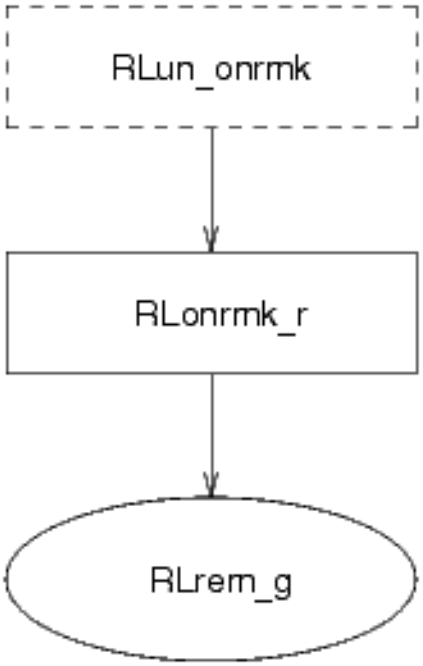


**Figure 1 Virtual Relation UN_ONRMK**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTATIC |
| permutation type | perm |

## 3. Field Layout

```
UN_ONRMK    relid = 532   DBSTATIC   DBACC_OPV   DBNOTODD  LP      RCDATA
     ar_gpid     DMMCC_FID    (ushort)  <--- key
     rem         DMTEXT       (array [ 16 ] of char )
     onnet_digs  DMDIGSTRING  (array [ 15 ] of char )  <--- key, compacted
            User Tuple Layout      UN_ONRMK
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            ar_gpid            |              rem              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                               |                               |
  4 |                              rem                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
```

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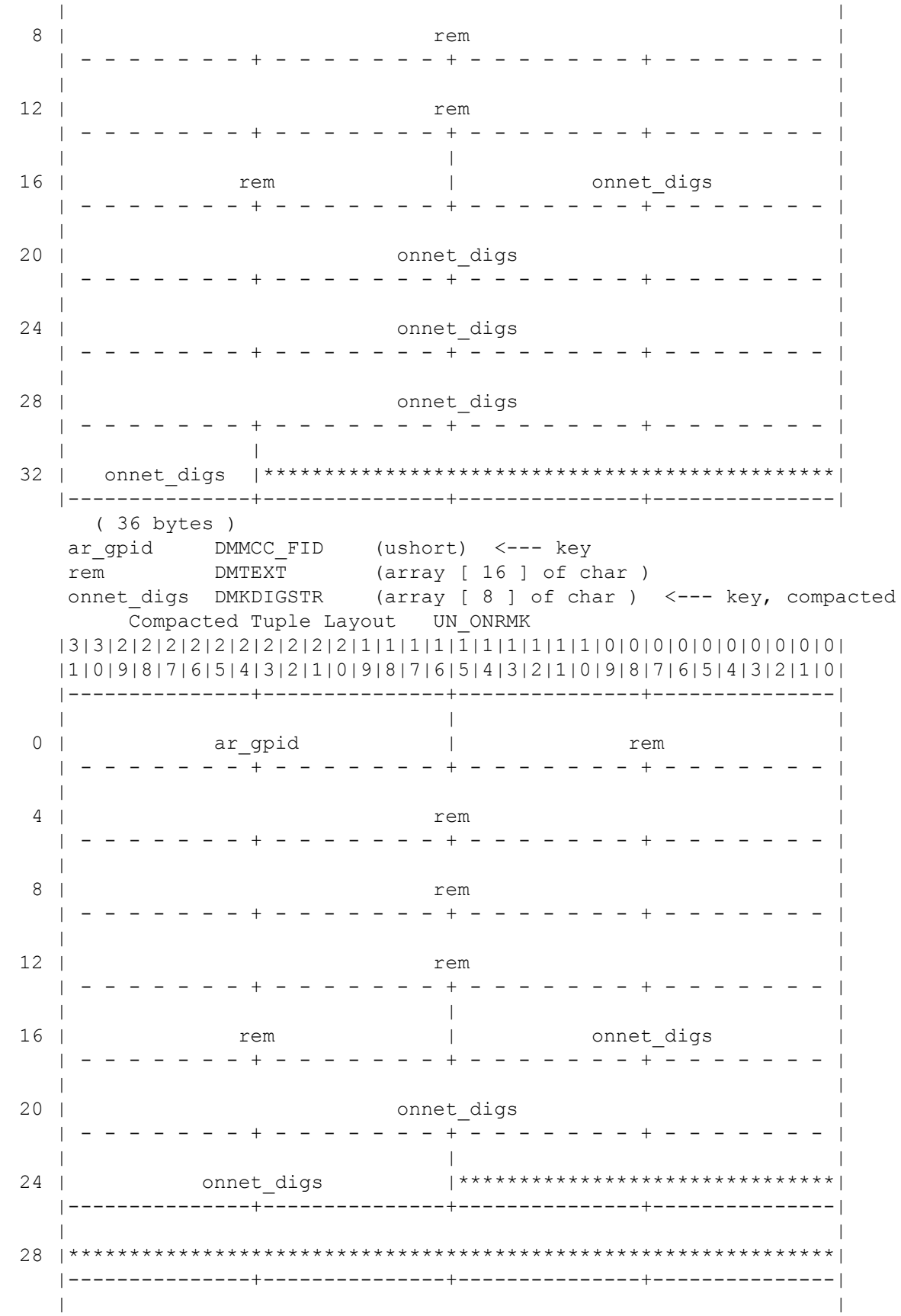
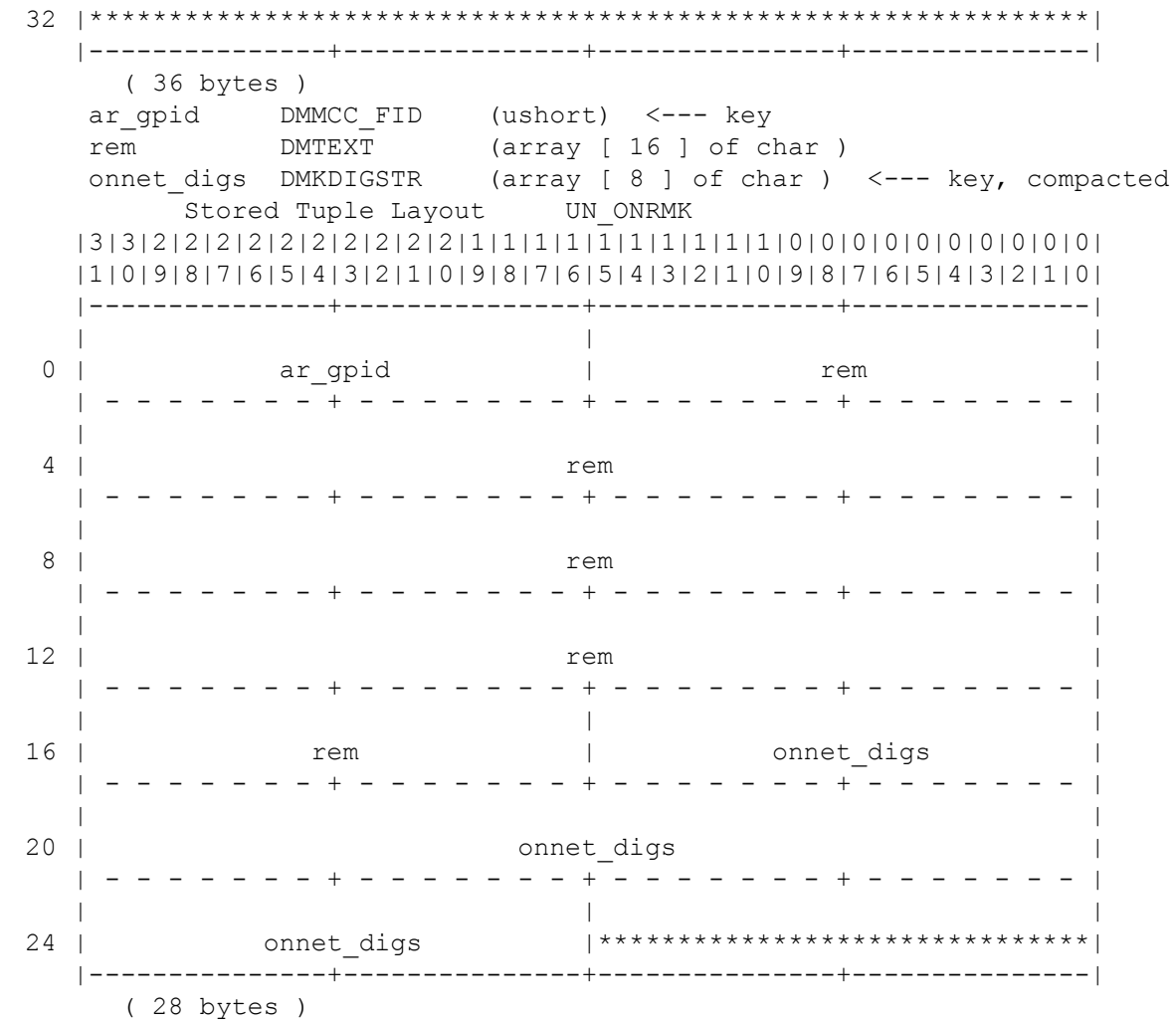

rem
rem
rem
onnet_digs
onnet_digs
onnet_digs
onnet_digs
onnet_digs
( 36 bytes )
ar_gpid DMMCC_FID (ushort) <--- key
rem DMTEXT (array [ 16 ] of char )
onnet_digs DMKDIGSTR (array [ 8 ] of char ) <--- key, compacted
Compacted Tuple Layout UN_ONRMK
ar_gpid
rem
rem
rem
rem
onnet_digs
onnet_digs
onnet_digs




## 4. Population Rules for RLun_onrmk

**Relation Description**
Uniform numbering on network remark.

This relation provides access to descriptive remarks associated with an ARS group and an on-network number which has a corresponding off-network number defined.

This relation provides access to descriptive remarks associated with an ARS group, and an on-network number which has a corresponding off-network number defined.

RLun_onrmk is keyed by ar_gpid and onnet_digs.

RLunonoff is keyed by ar_gpid and rnx (the 3-digit prefix of onnet_digs).

RLunon_di is keyed by ar_gpid, previous, and digit and allows digit by digit translation to recognize any substring of onnet_digs.

The following POPULATION RULES apply: For each RLunonoff tuple with non-null ar_gpid, and table values, there must be from 1 - 10 RLunon_di tuples keyed by ar_gpid, previous (alias table), and digit. Each resulting 'set' of RLunon_di tuples which, when traversed (by digit string), terminate at a tuple with null next, and non-null delete, prefix, and dig_pfx fields requires a corresponding RLun_onrmk tuple exist, keyed by ar_gpid, and onnet_digs.

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For each RLunonoff tuple with non-null ar_gpid, rnx, but with null table field, there must exist a corresponding RLun_onrmk tuple, keyed by ar_gpid, and onnet_digs.

Keys are obtained from form/view input. The RLun_onrmk rem field is populated with \0 if there are no remarks.

**Attribute: ar_gpid**

**Fullname:** ARS group id

**Attribute Description**This attribute contains the key ARS group identifier.
Circuit switch voice UNP will be used by circuit switch data groups. A circuit switch data group can only be created after a valid circuit switch voice group.

**Attribute: onnet_digs**

**Fullname:** On Network Digits

**Attribute Description** This attribute contains the key of on-network digits which have a public off-network number for this ar_gpid.

**Attribute: rem**

**Fullname:** Remarks

**Attribute Description** This attribute contains a 1 to 16 character remark associated with the incoming digits.

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# UNCNFLCT

## 1. Description

This relation contains the digit analysis table for conflict resolution.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 500 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
UNCNFLCT    relid = 285   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     table       DMUNS16      (ushort)     <--- key
     ar_gpid     DMMCC_FID    (ushort)     <--- key
     conv_indx   DMUNS16      (ushort)
     ars_idx     DMRTEIDX     (ushort: 14)
 (a) route_type  DMUNROUTE    (enum: 2)
     digits      DMDIG5CNT    (uchar: 5)     <--- key
     frl         DMARNFRL     (ushort: 5)
 (b) ars_type    DMUNDSTN     (enum: 4)
 (c) un_dpln     DMARSDP      (enum: 2)
     row         DMUNROW      (enum: 3)
 (d) sdn         DMBOOL       (enum: 1)
 (e) nodal_56k   DMBOOL       (enum: 1)
         User, Compacted and Stored Tuple Layout   UNCNFLCT
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |              table            |            ar_gpid            |
    |---------------+---------------+---------------+---------------|
    |                               |                           |   |
  4 |           conv_indx           |          ars_idx          | a |
    |---------------+---------------+---------------+---------------|
    |         |         |       |   |     | | |                     |
  8 |  digits |   frl   |   b   | c | row |d|e|*********************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLuncnflct

**Relation Description**
Digit  Analysis Table for Conflict Resolution.

This is the digit analysis table for conflict resolution.

If an ars customer requires selective destination screening, applied  to a particular conflict digit string, this results in

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a RLuncnflct tuple with 'row' value of either UNAMBIG or UNFINISH, and attribute 'ars_type' value of either UNNORMON, UNNORMOFF, or UNESCPOTS, having its attribute 'conv_indx' value set. This value is a key into RLunsds. The SDS string to be recognized must be longer than the substring which recognized the conflict in RLundtre.

**Attribute: table**

**Fullname:** table identifier

**Attribute Description** Table number from a relation tuple in RLundtre.next.

**Attribute: digits**

**Fullname:** number of digits previously received

**Attribute Description** The count of digits dialed or inpulsed since the last digit analyzed in RLundtre.

```
Range of values: 0 to 17 (since at least 1 digit analyzed)
                 if the IDDD15 secured feature (SFID223) has
                 been purchased and turned on, otherwise 0 to 14.
```

**Attribute: ar_gpid**

**Fullname:** automatic route selection group id

**Attribute Description** Dependencies: Verify that RLfacname has a tuple such that:

```
RLfacname.facid = RLargp.ar_gpid
RLfacname.class = FACARS
RLfacname.subclass = SCL_NULL
```

Verify existence of a tuple in RLundtre with RLundtre.ar_gpid = RLuncnflct.ar_gpid, and another tuple in relation RLundpinfo with RLundpinfo.ar_gpid = RLuncnflct.ar_gpid.
In addition, no more than 200 ars groups will be defined in ODD (enforced by ODA and RCV mappings).

**Attribute: ars_idx**

**Fullname:** ARS route index

**Attribute Description** Non-null value must be set when ars_type is UNNORMON, UNNORMOFF. All other ars_type require a null ars_idx. There must exist at least one tuple in ARS screening relation with RLarscrn.ars_idx = RLuncnflct.ars_idx for the matching ar_gpid when RLuncnflct.ars_type is UNNORMON, or UNNORMOFF.

**Attribute: un_dpln**

**Fullname:** uniform numbering dialing plan

**Attribute Description**

```
RLundtre.ar_gpid = RLuncnflct.ar_gpid and
RLundtre.un_dpln = RLuncnflct.un_dpln
```

**Attribute: frl**

**Fullname:** facility restriction level associated with dialed digits

**Attribute Description** Facility restriction level associates with off network numbers that do not

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have private destinations.

The use of this attribute FRL values 0 - 16 is valid only if the ars_type is UNESCPOTS. ARFRL_NONUSE (31) must be set for other types of ars_type.

**Attribute: route_type**

**Fullname:** type of route

**Attribute Description** When ars_type is UNNORMON or UNNORMOFF, route_type must be non-null. All other ars_type imply a null route_type.

**Attribute: conv_indx**

**Fullname:** conversion index

**Attribute Description** Conversion index indicates the index number associated with off to on conversion for ars_type of UNOFFON. The generation of the index value for this case is a result of form/view input.

For ars_type UNNORMON, UNNORMOFF, or UNESCPOTS, the index number is associated with selective destination screening. Generation of the index value for this case is derived from an SDS index generator. Refer to RLrc_unidx pop rules for index generation.

The interpretation of conv_indx depends on the `ars_type` and should be null for all other ars_type not listed here.

**Attribute: row**

**Fullname:** type of row entry

**Attribute Description** Indicates the tuple type and is the principal determining factor for the valid values in all other attributes. Range of values: The valid values are the following subset of domain UNROW:

UNAMBIG - - Ambiguous state. Additional digits will be analyzed in the same relation with an incremented digit count if digits are received before time- out (as determined from the critical timing value in the da_timer relation tuple corresponding to the originators characteristics). If no digits are received before time- out, attribute ars_type specifies the call treatment.

UNCONT - - Continue digit analysis in uncnflct with the next digit received.

UNFINISH - - Done with digit analysis. Attribute ars_type determines the call treat- ment.

Null value: None.

**Attribute: ars_type**

**Fullname:** destination type used in PNDP

**Attribute Description** A destination type used to indicate various actions to be taken on receipt of this number of digits. Range of Values: Valid values are the following subset of the UNDSTN domain:

UNNORMON - - on-net number

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UNNORMOFF - - off-net number

UNOFFON - - off-net number with on-net route

UNDARS - - ARS deactivation code

UNESCPOTS - - Escape to Office Dialing Plan

UNULLDST - - null value

Dependencies: See the following chart.

ROW AND ARS_TYPE DEPENDENCIES:

Primary dependencies are based upon the row and ars_type attributes. The following list specifies the only valid combinations of row and ars_type values. Each combination requires non-null values of the attributes as indicated in the list. Unspecified non-key attributes require the null value.

| row | ars_type | Non-null attributes and dependencies within the RLuncnflct tuple |
|---|---|---|
| UNAMBIG | UNNORMON | ars_idx, route_type,<br>conv_indx - optional (for SDS)<br>sdn - optional |
| | UNNORMOFF | ars_idx, route_type,<br>conv_indx - optional (for SDS)<br>sdn - optional |
| | UNESCPOTS | frl - optional,<br>conv_indx - optional (for SDS) |
| | UNOFFON | conv_indx - required<br>sdn - optional |
| | UNFINISH<br>UNOFFON | conv_indx - required<br>sdn - optional |
| | UNNORMON | ars_idx, route_type - required<br>conv_indx - optional (for SDS),<br>sdn - optional |
| | UNNORMOFF | ars_idx, route_type - required,<br>conv_indx - optional (for SDS)<br>sdn - optional |
| | UNESCPOTS | frl - optional,<br>conv_indx - optional, (for SDS)<br>all other attributes are null |
| | UNCONT<br>UNULLDST | |

**Attribute: sdn**

**Fullname:** indicator to identify a software defined network call which route through ARS

**Attribute Description** This field indicates whether incoming dialed digits represents a Software Defined Network call. It should be set to DBYES when incoming digits (RNX) represent a SDN call. This field is needed for this relation because two digit strings (RNXs) may be the same, but the following digits identify a SDN call. (that is, 221 + 7 digit is SDN call, 221 + 10 digit is not a SDN call.)

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DBYES: - Software Defined Network call

DBNO: - not a Software Defined Network call

**Attribute: nodal_56k**

**Fullname:** EOLN 56K data call indicator

**Attribute Description** This field indicates whether the bearer capability of the call shall be changed to 56Kbps data or not. SFID218 must be active before setting this field.

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# UNDPINFO

## 1. Description

This relation contains the Uniform Numbering dialing plan information.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
UNDPINFO    relid = 284   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     ar_gpid     DMMCC_FID    (ushort)     <--- key
     da_strt     DMUNS16      (ushort)
 (a) undp_ert    DMUNDP_ERT   (enum: 3)
 (b) un_dpln     DMARSDP      (enum: 2)     <--- key
         User, Compacted and Stored Tuple Layout   UNDPINFO
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |                               |
  0 |            ar_gpid             |            da_strt            |
    |---------------+---------------+---------------+---------------|
    |      |   |                                                     |
  4 |  a   | b |*****************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLundpinfo

**Relation Description**
Uniform numbering dialing plan information

This relation contains the Uniform numbering dialing plan information.

**Attribute: ar_gpid**

**Fullname:** Automatic route selection voice group ID.

**Attribute Description** Indicates the ARS group.

Verify that RLfacname has a tuple such that:

```
RLfacname.facid = RLargp.ar_gpid
RLfacname.class = FACARS
RLfacname.subclass = SCL_NULL
```

Verify existence of a tuple in RLargp keyed by this ar_gpid.

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In addition, no more than 200 ARS groups will be defined in the office-dependent database (ODD) (enforced by office data administration [ODA] and recent change [RCV] mappings).

Circuit switch voice uniform numbering plan (UNP) will be used by circuit switch data groups. A circuit switch data group can only be created after a valid circuit switch voice group.

FOR ODA only:
There must be at least one entry in relation RLundtre with same combination of RLundtre.ar_gpid = RLundpinfo.ar_gpid and RLundtre.un_dpln = RLundpinfo.un_dpln.

**Attribute: un_dpln**

**Fullname:** Uniform numbering dialing plan number

**Attribute Description** Uniform numbering dialing plan number.

**Attribute: da_strt**

**Fullname:** Specifies starting digit analysis table

**Attribute Description** Number associated with starting digit in digit analysis relation RLundtre.

Verify existence of tuple in RLundtre keyed by this ar_gpid and RLundtre.previous equal to RLundpinfo.da_strt. This check is performed only by ODA. Note that the da_strt can only occur for a given ar_gpid and un_dpln. No two un_dpln(s) for a given ar_gpid can share the same da_strt.

The value of da_strt is generated internally. Each time a new RLundpinfo tuple is created, a new index value must be generated. Refer to RLundtre and RLrc_unidx pop rules for global information about da_strt index generation.

**Attribute: undp_ert**

**Fullname:** Dialing plan error treatment

**Attribute Description** Indicates the type of error treatment for dialing plan.

If 'undp_ert' is UNANNOUNCE, there must exist a tuple in relation RLargp where RLargp.ar_gpid=RLundpinfo.ar_gpid with non-zero annc_ri attribute.

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# UNDTRE

## 1. Description

This is the Uniform Numbering digit analysis table relation.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 50000 |
| expected tuples in relation | 1508 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| linear | DBYES |
| foldtype | DBGC31 |
| density | 90 |

## 3. Field Layout

```
UNDTRE      relid = 283   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     ar_gpid     DMMCC_FID    (ushort)     <--- key
     previous    DMUNS16      (ushort)     <--- key
     conv_indx   DMUNS16      (ushort)
     next        DMUNS16      (ushort)
     ars_idx     DMRTEIDX     (ushort: 14)
 (a) un_dpln     DMARSDP      (enum: 2)
     digit       DMEDIGIT     (char)     <--- key
     digits      DMDIG5CNT    (uchar: 5)
     row         DMUNROW      (enum: 3)
     maxdigits   DMDIG5CNT    (uchar: 5)
     frl         DMARNFRL     (ushort: 5)
 (b) ars_type    DMUNDSTN     (enum: 4)
 (c) route_type  DMUNROUTE    (enum: 2)
 (d) sdn         DMBOOL       (enum: 1)
 (e) nodal_56k   DMBOOL       (enum: 1)
        User, Compacted and Stored Tuple Layout UNDTRE
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 0 |            ar_gpid            |            previous           |
   |---------------+---------------+---------------+---------------|
   |                               |                               |
 4 |           conv_indx           |              next             |
   |---------------+---------------+---------------+---------------|
   |                           |   |               |         |     |
 8 |          ars_idx          | a |     digit     |  digits | row |
   |---------------+---------------+---------------+---------------|
   |         |         |       |   | | |                           |
12 |maxdigits|   frl   |   b   | c |d|e|***************************|
   |---------------+---------------+---------------+---------------|
      ( 16 bytes )
```

## 4. Population Rules for RLundtre

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**Relation Description**
Uniform numbering digit analysis table.

This is the Uniform numbering digit analysis table relation.

Background: ARS customers with private digit analysis needs will require tuples in RLundtre. A given customer group may define one or two private dialing plans (to separate off-net and on-net dialing sequences/privileges for example) within this relation. Attributes 'ar_gpid', and 'un_dpln' are keys into RLundpinfo, which provides the initial entry into RLundtre via attribute 'previous'.

**Attribute: ar_gpid**

**Fullname:** Automatic route selection group id

**Attribute Description** Verify that RLfacname has a tuple such that:

```
RLfacname.facid = RLargp.ar_gpid
RLfacname.class = FACARS
RLfacname.subclass = SCL_NULL
```

Verify existence of a tuple in RLargp with RLargp.ar_gpid = RLundtre.ar_gpid, and verify tuple in relation RLundpinfo with values ar_gpid, and un_dpln which match RLundtre ar_gpid/un_dpln values.

In addition, no more than 200 ars groups will be defined in ODD (enforced by ODA and RCV mappings).

**Attribute: previous**

**Fullname:** table id from previous digit

**Attribute Description** Table number from either the undpinfo relation or from the undtre tuple corresponding to the previous analyzed digit.

**Attribute: digit**

**Fullname:** current digit

**Attribute Description** The current dialed or inpulsed digit. The symbols '*' and '#' can only be used as the first digit, while digits can appear in any position.

**Attribute: conv_indx**

**Fullname:** conversion index

**Attribute Description** Conversion index is associated with off to on conversion when ars_type is UNOFFON. The generation of the index value for this case is a result of form/view input.

Conversion index is associated with a network service code when ars_type is UNNSC. Generation of the index value for this case is derived from an NSC index generator. Refer to RLrc_unidx rules for index generation.

A non-null conversion index with ars_type of UNNORMON, UNNORMOFF, or UNESCPOTS is associated with selective destination screening. A successful SDS form/view request requires that the SDS string be at least one digit longer than the number of digits in the substring recognized in RLundtre or in RLuncnflct.

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Generation of the index value for this case is derived from an SDS index generator. Refer to RLrc_unidx rules for index generation.

Dependencies: The interpretation/generation of conv_indx depends on the ars_type and should be null for all ars_type values not explicitly listed here.

| ARS_TYPE | DEPENDENCY |
|---|---|
| UNNSC - | - There must exist a tuple in relation RLunnsc with RLunnsc.conv_indx = RLundtre.conv_indx |
| UNOFFON - | There must exist a tuple in relation UNOFFON with RLunoffon.conv_indx = RLundtre.conv_indx. |
| - | UNNORMON,UNNORMOFF,UNESCPOTS The conv_indx attribute is optional for these destinations. When non null there must exist a tuple in RLunsds with RLunsds.previous = RLundtre.conv_indx, for given ar_gpid and un_dpln. |

**Attribute: next**

**Fullname:** next table

**Attribute Description** If row is UNCNFLCT, UNTWOCONF or UNRANGE, then the `next` value provides key RLuncnflct.table, and is non-null. There must be a tuple in RLuncnflct keyed by ar_gpid, digits, and table. It is required that RLundtre.un_dpln = RLuncnflct.un_dpln.

If row is UNAMBIG or UNCONT, then the `next` value provides non-null key RLundtre.previous, which along with the next analyzed digit, and ar_gpid, indicates another tuple in RLundtre (there must be such a tuple).

For any other enumerated `row` value, `next` is null.

**Attribute: ars_idx**

**Fullname:** ARS route index

**Attribute Description** Non-null value must be set when `ars_type` is UNNORMON, or UNNORMOFF. For any other ars_type, ars_idx must be null. There must exist at least one tuple in the ARS screening relation with RLarscrn.ars_idx = RLundtre.ars_idx, and with RLarscrn.ar_gpid = RLundtre.ar_gpid. This check is performed by ODA only.

**Attribute: un_dpln**

**Fullname:** uniform numbering dialing plan number

**Attribute Description** An ars group may independently define routing treatment for digit strings in each of its dialing plans. Attributes un_dpln, and ar_gpid key RLundpinfo which in turn must provide a start index value for RLundtre.previous. There must be a tuple in RLundtre keyed by ar_gpid, previous, and initial digit of each digit string.

**Attribute: frl**

**Fullname:** facility restriction level

**Attribute Description** Facility restriction level associates with off network numbers that do not

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have private destination. The use of this attribute's FRL values 0-16 is valid only if the ars_typ is UNESCPOTS. ARFRL_NONUSE (31) value must be set for other types of ars_type.

**Attribute: ars_type**

**Fullname:** ars destination type

**Attribute Description** An ars destination type indicates actions to be taken on receipt of this digit. Valid values are the following subset of the
UNDSTN domain:

UNNORMON - - on-net number

UNNORMOFF - - off-net number

UNNSC - - network service code Note that nsc must be either 1, 2, or 3 digits in length.

UNOFFON - - off-net number with on-net route

UNDARS - - ARS deactivation code

UNESCPOTS - - Escape to Office Dialing Plan

UNULLDST - - default value

UNACLD - - Account Code lead digit This ars_type is associated with one or more characters: the first character is the lead Account Code character; the remaining characters are part of the Account Code (ACCT).

Due to the nature of the *5ESS*®-2000 switch dialing plan, the only restriction placed on the sequence of digits that result in ars_type UNACLD is that it is a unique and unambiguous sequence in the dialing plan. The value for 'nbr digits' entered on the ODA form/RCV view must equal the number of digits entered into 'unincdig' on the form/view.

Whatever the sequence is, the first character dialed is not stored as part of the ACCT.

Also see the row and ars_type dependency chart.

********** A NOTE TO AVOID CONFUSION **********
remaining variables in domain UNDSTN which do not appear (used only for form/view input or in call processing) are: UNCONFLCT, UNINVALID

**Attribute: route_type**

**Fullname:** type of route

**Attribute Description** When ars_type is UNNORMON or UNNORMOFF, route_type must be non-null. All other ars_type imply a null route_type in the RLundtre tuple.

**Attribute: digits**

**Fullname:** number of remaining digits

**Attribute Description** The usage depends upon the value of the row attribute.

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If row is UNRANGE, 'digits' indicates the remaining number of digits which will be collected before RLuncnflct is accessed. A tuple must exist in RLuncnflct keyed by 'ar_gpid', 'table', and 'digits'; RLundtre.digits = RLuncnflct.digits. An RLuncnflct tuple must exit for every value of 'digits' in the range less than or equal to the value of RLundtre.maxdigits, where 'maxdigits' is always > 'digits'.

If row is UNCNFLCT, 'digits' is the maximum remaining number of digits which will be collected. RLuncnflct is keyed using RLuncnflct.digits = 0, through RLuncnflct.digits = RLundtre.digits. There must be an RLuncnflct tuple for each value (0-'digits' inclusive).

If row is UNTWOCONF, 'digits' is the smaller of the two valid remaining numbers of digits to analyze in the uncnflct relation. There must be an RLuncnflct tuple keyed by 'digits' and by 'maxdigits'.

If row is UNREMAIN then 'digits' indicates the remaining number of digits to collect (not the total number collected).

For all other 'row' states, 'digits' is null valued.

```
Range of values: 0 to 17 (since at least 1 digit analyzed) if the
                 IDDD15 secured feature (SFID223) has been purchased
                 and turned on, otherwise 0 to 14.
```

**Attribute: maxdigits**

**Fullname:** maximum digits remaining

**Attribute Description** Maximum number of digits remaining to collect. If maxdigits is non-null it must be > digits and digits must be non-null. The usage depends upon the value of the row attribute.

If row is UNRANGE, maxdigits is the maximum remaining number of digits which may be collected. Refer to the description for UNRANGE 'digits'.

If row is UNTWOCONF, maxdigits is the larger of the two valid remaining numbers of digits to analyze in the uncnflct relation.

For all other values of row 'maxdigits' is null.

```
Range of values: 0 to 17 (since at least 1 digit analyzed) if the
                 IDDD15 secured feature (SFID223) has been purchased
                 and turned on, otherwise 0 to 14.
```

**Attribute: row**

**Fullname:** type of row entry

**Attribute Description** Indicates the tuple type and is the principal determining factor for the valid values in all other attributes.
Range of Values: Following subset of domain DMUNROW:

UNAMBIG - - Ambiguous state. Additional digits will be analyzed in RLundtre if received before time-out (as determined from the critical timing value in the da_timer relation tuple corresponding to the originators characteristics). If no digits are received before time- out, attribute ars_type specifies the call treatment.

UNCNFLCT - - Indicates that a code conflict exists among three or more digit strings of non-contiguous lengths. Each quantity of remaining digits from 0 until a time-out (or # dialed) is analyzed in RLuncnflct relation.

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UNCONT - - Continue digit analysis in undtre with the next digit received.

UNREMAIN - - Used when digit analysis is complete but additional digits are to be col- lected without digit analysis.

UNTWOCONF - - Indicates that a code conflict exists which may be resolved by collecting exactly two quantities of additional digits dialed (or inpulsed) and analyzing in RLuncnflct relation.

UNRANGE - - Indicates that a code conflict exists among a contiguous range of quantities of additional digits dialed. Each of the quantities in the range is analyzed in the RLuncnflct relation.

UNFINISH - - Done with digit analysis. Attribute ars_type determines the call treatment.

```
Null value: None.
Dependencies: See the following chart.
ROW AND ARS_TYPE DEPENDENCIES:
------------------------------
```

Primary dependencies are based upon the row and ars_type attributes. The following list specifies the only valid combinations of row and ars_type values. Each combination requires non-null values of the attributes as indicated in the list. Unspecified non-key attributes require the null value.

| row | ars_type | Non-null attributes and dependencies within the RLundtre tuple |
|---|---|---|
| UNAMBIG | UNNSC | conv_indx, next - required<br>sdn - optional |
| | UNNORMON | next, ars_idx, route_type, - required<br>sdn - optional |
| | UNNORMOFF | next, ars_idx, route_type, - required<br>sdn - optional |
| | UNESCPOTS | next, - required, frl - optional,<br>all other attributes are null |
| UNREMAIN | UNNSC | conv_indx, digits - required<br>sdn - optional |
| | UNOFFON | digits, conv_indx - required<br>sdn - optional |
| | UNNORMON | ars_idx, route_type, digits - required<br>conv_indx - optional<br>sdn - optional |
| | UNNORMOFF | ars_idx, route_type, digits - required<br>conv_indx - optional<br>sdn - optionall |
| | UNDARS | digits - required |
| | UNESCPOTS | digits - required ,frl - optional<br>conv_indx - optional |
| UNFINISH | UNNSC | conv_indx -required<br>sdn - optional |
| | UNOFFON | conv_indx - required<br>sdn - optional |
| | UNNORMON | ars_idx, route_type - required<br>sdn - optional |
| | UNNORMOFF | ars_idx, route_type - required |

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```
                              sdn - optional
              UNACLD          all other attributes are null
              UNDARS          all other attributes  are null
              UNESCPOTS       frl - optional,
                              all  other attributes are null
UNCONT        UNULLDST        next - required
UNCNFLCT      UNULLDST        next - required
                              digits  - optional
UNTWOCONF     UNULLDST        next, maxdigits - required
                              digits - optional
UNRANGE       UNULLDST        nex, maxdigits - required
                              digits - optional
```

**Attribute: sdn**

**Fullname:** software defined network indicator

**Attribute Description** This field indicates whether incoming dialed digits is a Software Defined Network through ARS call. It should be set to DBYES when Uniform Numbering Plan number represents SDN RNX.

DBYES: - ARS Software Defined Network.

DBNO: - Not a ARS Software Defined Network

**Attribute: nodal_56k**

**Fullname:** EOLN 56K data call indicator

**Attribute Description** This field indicates whether the bearer capability of the call shall be changed to 56Kbps data or not. SFID218 must be active before setting this field.

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# UNIT_CKT

## 1. Description

Unit, unit type, and circuit index to circuit name.

```
revision(s)
-----------
SM-2000 Port & Circuit Renaming
PCR Combined Text Capability Req. & Design - 002000/v1030/50
PCR Data Design DS - 002000/v1010/40
SN2000 Data Design - 002000/v1343/65/40

 #if( defined(PSM) && (AVSMTRUNKS + AVSMLUMAX * 112 + AVMAXDNU
     *      748 + AVDSC3MAX * 241)!      > 41000 )
 syntax - The number of UNIT_CKT  needed has exceeded the maximum
          engineered.
 #endif
```

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 41000 |
| expected tuples in relation | 840 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| key shift | 0 |

## 3. Field Layout

```
UNIT_CKT    relid = 1821  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     ckt_indx    DMCKTINDX    (ushort)  <--- key
     cktname     DMCIRCUIT    (ushort)
     utype       DMUNITTYPE   (enum: 7)  <--- key
     unit        DMUNITNO     (ushort: 7)  <--- key
         User, Compacted and Stored Tuple Layout   UNIT_CKT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             ckt_indx          |            cktname            |
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  4 |    utype      |     unit      |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLunit_ckt

**Relation Description**
Unit,  unit type, and circuit index to circuit name.

Convert a unit number, unit type and circuit index to their corresponding  circuit name. RLcktdata is keyed by the circuit name. To retrieve information  about a circuit without knowing its logical circuit name, you must calculate (acquire) its circuit index along with its unit type and unit number and retrieve  the corresponding tuple in RLunit_ckt. This will give you the circuit name.  In addition to the attributes in RLunit_ckt, will have access to RLcktdata

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attributes that are not found in RLunit_ckt through a virtual read-only RLunitdata OPVIEW relation by accessing the OPVIEW with the unit number, unit type, and circuit index.

**Attribute: ckt_indx**

**Fullname:** Circuit index for the circuit

**Attribute Description** This is the circuit index that will distinguish the circuit within a unit type on a particular unit number.

**Attribute: utype**

**Fullname:** The unit type

**Attribute Description** This is the type of unit that the circuit is on.

**Attribute: unit**

**Fullname:** unit number

**Attribute Description** The unit number of the unit that the circuit belongs to on the SM.

**Attribute: cktname**

**Fullname:** logical circuit name

**Attribute Description** The circuit name that corresponds the unit number, unit type, and circuit index that were used to key into RLunit_ckt.

**Defines:** "db/DMcircuit.h"

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# UNIT_MH

## 1. Description

This relation maps from peripheral unit to its associated Message Handler (MH) and channel. This relation provides the inverse mapping of RLmh_unit.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 8 |
| expected tuples in relation | 2 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
UNIT_MH     relid = 2091  DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL
     unitnumber  DMUNITNO     (ushort: 8)     <--- key
     unittype    DMUNITTYPE   (enum: 7)     <--- key
     serv_grp    DMSG         (ushort: 5)     <--- key
     channel     DMCHANNEL    (ushort: 5)
 (a) protocol    DMPM_PROT    (enum: 2)
 (b) mh_num      DMMH_NUM     (ushort: 2)
     mhts_used   DMTS_USED    (ulong)
         User, Compacted and Stored Tuple Layout    UNIT_MH
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |             | |         |         |   |   |   |
  0 |   unitnumber  |   unittype  |*| serv_grp| channel | a | b |***|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                           mhts_used                           |
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLunit_mh

**Relation Description**
Peripheral Unit to Message Handler

This relation associates a peripheral unit with a Message Handler. It is the reverse mapping of the RLmh_unit relation. For each entry in RLunit_mh there must be an associated entry in RLmh_unit.

**Attribute: mh_num**

**Fullname:** Message Handler Number

**Attribute Description** This attribute identifies the Message Handler that is equipped in the SM.

**Attribute: channel**

**Fullname:** MH Channel Number

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**Attribute Description** This attribute identifies the logical channel number in the MH. The range is 0 through 31. Channel 0 is not assigned by RC/V or ODA. It is used in the MH to associate all the unused timeslots.

**Attribute: unittype**

**Fullname:** Peripheral Unit Type

**Attribute Description** They type of peripheral unit that uses the MH channel.

**Attribute: unitnumber**

**Fullname:** unit number

**Attribute Description** The unit number that identifies the peripheral unit.

**Attribute: serv_grp**

**Fullname:** Service Group number

**Attribute Description** Service group of the peripheral unit where the MH is connected.

**Attribute: protocol**

**Fullname:** Protocol

**Attribute Description** Peripheral messaging protocol used on the channel.

**Attribute: mhts_used**

**Fullname:** MH Timeslot Usage Bitmap

**Attribute Description** This attribute is a bitmap containing 32 bits that specifies whether the associated SPYDER-T timeslot is included in the logical channel specified by the "channel" attribute. If the associated bit is 1, then that timeslot is included in the SPYDER-T channel.

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# UNIT2MAB

## 1. Description

Relation identifies what test equipment is connected the Metallic Access Buses (MAB) of this remote unit.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 126 |
| expected number of tuples | 50 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| key shift | 0 |
| ks key store | DBNO |

## 3. Field Layout

```
UNIT2MAB    relid = 2786  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     unit_no     DMUNITNO     (ushort: 8)     <--- key, not stored
     unittype    DMUNITTYPE   (enum: 7)     <--- key, not stored
     mab0_use    DMMABUSE     (struct)
         circuit_name  DMCIRCUIT    (ushort)
         circuit_mod  DMMODULE     (ushort: 8)
 (a)     bus_use     DMBUSUSE     (enum: 3)
         spare       DMUNS5       (ushort: 5)
     mab1_use    DMMABUSE     (struct)
         circuit_name  DMCIRCUIT    (ushort)
         circuit_mod  DMMODULE     (ushort: 8)
 (b)     bus_use     DMBUSUSE     (enum: 3)
         spare       DMUNS5       (ushort: 5)
         User and Compacted Tuple Layout   UNIT2MAB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               |                               |
  0 |    unit_no    |   unittype    |*******************************|
    |===============+===========  mab0_use ==========+===============|
    |                               |               |     |         |
  4 |          circuit_name         |  circuit_mod  |  a  |  spare  |
    |===============+===========  mab1_use ==========+===============|
    |                               |               |     |         |
  8 |          circuit_name         |  circuit_mod  |  b  |  spare  |
    |===============+===============+===============+===============|
       ( 12 bytes )
     mab0_use    DMMABUSE     (struct)
         circuit_name  DMCIRCUIT    (ushort)
         circuit_mod  DMMODULE     (ushort: 8)
 (a)     bus_use     DMBUSUSE     (enum: 3)
         spare       DMUNS5       (ushort: 5)
     mab1_use    DMMABUSE     (struct)
         circuit_name  DMCIRCUIT    (ushort)
         circuit_mod  DMMODULE     (ushort: 8)
 (b)     bus_use     DMBUSUSE     (enum: 3)
         spare       DMUNS5       (ushort: 5)
```

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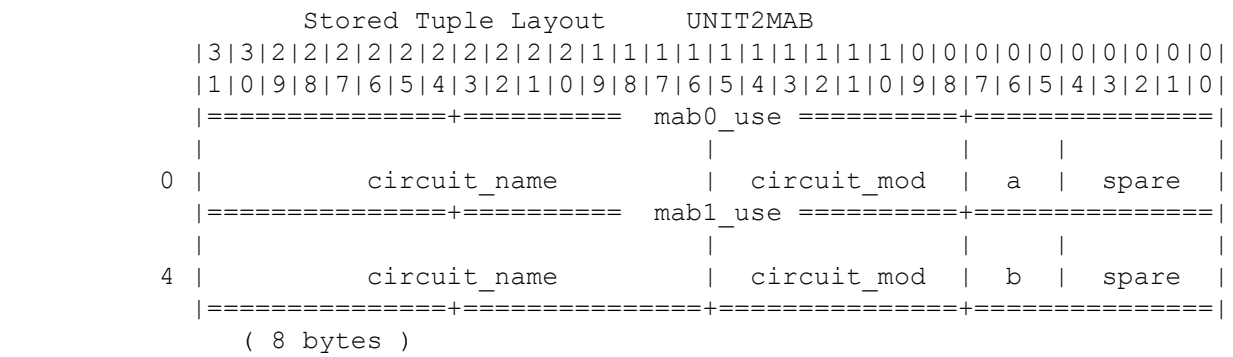


## 4. Population Rules for RLunit2mab

**Relation Description**
Information about what type of test equipment is connected to the remote unit.

Poprules in this relation currently apply only to RPs such as RAIU.

**Attribute: unit_no**

**Fullname:** Remote peripheral unit number

**Attribute Description** This identifies the number of remote unit.

**Attribute: unittype**

**Fullname:** Remote peripheral unit type

**Attribute Description** This identifies type of the remote peripheral unit.

**Attribute: mab0_use**

**Fullname:** Metallic Access Bus 0 usage

**Attribute Description** This attribute defines the type of test equipment (if any, and its' respective global circuit name) that is connected to MAB 0 of this remote peripheral unit.

**Attribute: mab1_use**

**Fullname:** Metallic Access Bus 1 usage

**Attribute Description** This attribute defines the type of test equipment (if any, and its' respective global circuit name) that is connected to MAB 1 of this remote peripheral unit.

**Defines:** "db/DBtladefs.h"

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# UNIT2RDT

## 1. Description

This relation maps the unit number of TR-303 RDT to the circuit name of TR-303 RDT (PCRDT303). It is the inverse mapping of RLrdt2unit.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 240 |
| expected tuples in relation | 20 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |

## 3. Field Layout

```
UNIT2RDT    relid = 2738  DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     rtname      DMCIRCUIT    (ushort)
     rdt_unit    DMUNITNO     (ushort: 8)     <--- key
     tsp_unit    DMUNITNO     (ushort: 8)
     tsp_utype   DMUNITTYPE   (enum: 7)
     rtnum       DMRTNUM      (uchar: 7)
     bu_link     DMRTDS1      (uchar: 5)
         User, Compacted and Stored Tuple Layout   UNIT2RDT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |               |               |
  0 |             rtname            |    rdt_unit   |    tsp_unit   |
    |---------------+---------------+---------------+---------------|
    |               | |             | |             |               |
  4 |  tsp_utype    |*|    rtnum    |*| bu_link     |***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLunit2rdt

**Relation Description**
Maps an internal RT unit number to a Remote Digital Terminal.

This relation maps an internal RT unit number (a sequential number of each TR303 in an SM) to the RT circuit name. Inverse of RLrdt2unit.

**Attribute: rdt_unit**

**Fullname:** Remote Digital Terminal unit number

**Attribute Description** This is an internal RT unit number which is a sequential number assigned to each TR-303 RDT in an SM.

**Attribute: rtname**

**Fullname:** RT circuit name

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**Attribute Description** This is an internal circuit name of the RT.

**Attribute: bu_link**

**Fullname:** Back up EOC/TMC data links

**Attribute Description** RDT DS1 which carries the back up EOC/TMC data links.

**Attribute: rtnum**

**Fullname:** RDT number

**Attribute Description** RDT number with respect to the 5ESS peripheral.

**Attribute: tsp_unit**

**Fullname:** Transport facility unit number

**Attribute Description** This is the unit number of the transport facility supporting the application.

**Attribute: tsp_utype**

**Fullname:** Transport facility unit type

**Attribute Description** This is the unit type of the transport facility supporting the application.

**Defines:** "db/DMcircuit.h"

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# UNITDATA

## 1. Description

Unit, unit type, and circuit index to circuit name. This is a virtual read only relation.

This is a virtual update relation. The tree diagram Figure 1 depicts the stored structure of virtual relation UNITDATA.

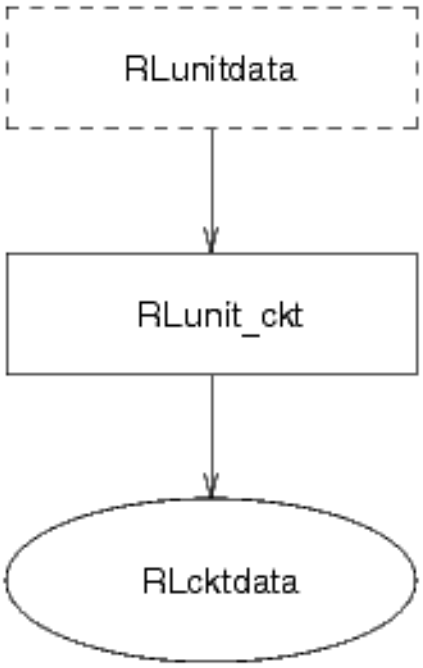


**Figure 1 Virtual Relation UNITDATA**

## 2. Data Dictionary Values

| | |
|---|---|
| access type | DBACC_OPV |
| distribution | FP |
| relation type | DBNOUPDT |
| permutation type | perm |

## 3. Field Layout

```
UNITDATA    relid = 1822  DBNOUPDT   DBACC_OPV   DBNOTODD  FP      NULL
     cktname     DMCIRCUIT    (ushort)
     type        DMCKTTYPE    (enum)
     baseadd     DMCTRLADRS   (ushort)
     dbchan      DMDBCHAN     (ushort)
     ckt_indx    DMCKTINDX    (ushort)  <--- key
     utype       DMUNITTYPE   (enum: 7)  <--- key
     unit        DMUNITNO     (ushort: 7)  <--- key
     cli         DMHEX32      (ulong)
 (a) dbind       DMBOOL       (enum: 1)
     dfimode     DMDFIMODE    (enum: 6)
 (b) chnasn      DMCHNASN     (enum: 2)
 (c) pidbtype    DMPIDBTYPE   (enum: 4)
```

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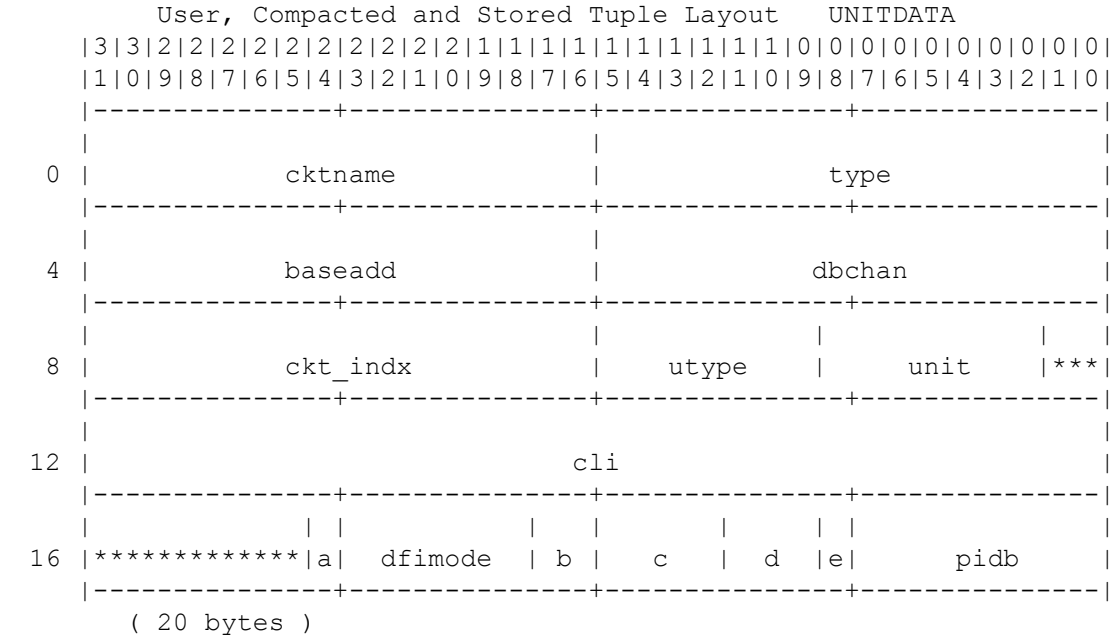
```
(d) eqstat      DMEQSTAT     (enum: 3)
(e) cktbrd      DMBOOL       (enum: 1)
    pidb        DMPIDB       (uchar)
```

User, Compacted and Stored Tuple Layout UNITDATA




( 20 bytes )

## 4. Population Rules for RLunitdata

There are no population rules for this relation.

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# UNITTYP

## 1. Description

This relation contains the Unit number, unit class, ISLUs and trunks connected to an SM and is used to determine what types of line units are served by the given SM.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1536 |
| expected number of tuples | 144 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | LP |
| application | CIO |
| relation type | DBSTATIC |
| ks key store | AUTO |

## 3. Field Layout

```
UNITTYP     relid = 375   DBSTATIC   DBACC_CIND  DBPRAM    LP      CIO
     module       DMMODULE     (ushort: 8)  <--- key, not stored
     unit         DMUNITNO     (ushort: 7)  <--- key, not stored
 (a) uclass       DMUNITCLAS   (enum: 3)  <--- key, not stored
     utype        DMUNITTYPE   (enum: 7)
         User and Compacted Tuple Layout    UNITTYP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |               |               | |     |                       |
  0 |     module    |     unit      |*|  a  |***********************|
    |---------------+---------------+---------------+---------------|
    |             |                                                 |
  4 |    utype    |*************************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     utype        DMUNITTYPE   (enum: 7)
           Stored Tuple Layout      UNITTYP
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |             |                                                 |
  0 |    utype    |*************************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLunittyp

**Relation Description**
Unit type.

This relation is used to determine what types of line units are served by the given SM.

GENERAL NOTE on line unit numbers:

The following diagram denotes which peripherals must have mutually exclusive unit numbers. Units in the same

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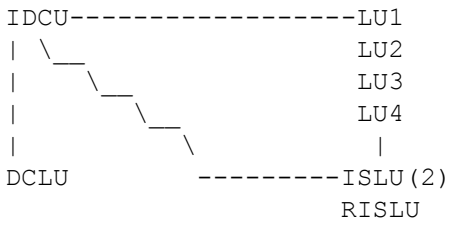
node or in adjacent nodes, that is, nodes connected by a single edge must have distinct unit numbers.




The IDCU resides in both the line unit numbering universe and the DCLU unit numbering universe. Therefore, the IDCU must have a different unit number than any LU, (R)ISLU, ISLU2, or DCLU in the same SM. Also, no LU can have the same unit number as a (R)ISLU and ISLU2. Finally, all units of the same type within an SM must have distinct unit numbers, that is, there cannot be two IDCUs on the same SM with the same unit number.

A DCLU can have the same unit number as an LU, a (R)ISLU, or ISLU2, but cannot have the same unit number as an IDCU.

**Attribute: module**

**Fullname:** Module.

**Attribute Description** SM number.

**Attribute: uclass**

**Fullname:** Unit class.

**Attribute Description** General identification given to like units.

**Attribute: unit**

**Fullname:** Unit number.

**Attribute Description** unit number of the unit on that sm.

**Attribute: utype**

**Fullname:** Unit type.

**Attribute Description** unit type must be one of the following: SMLU, SMDCLU, SMLU3, SMLU4, SMC1LU, SMISLU, SMRISLU, SMISLU2, SMIDCU, SMDLTU, SMDLTU2, SMTU and SMDNU_S. SMNULLUNIT if the 'x' utype pair does not reflect a valid (populated) entry.

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# UNNSC

## 1. Description

Uniform numbering network service code data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |

## 3. Field Layout

```
UNNSC       relid = 269   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     ar_gpid     DMMCC_FID    (ushort)  <--- key
     conv_indx   DMUNS16      (ushort)  <--- key
     new_dn      DMDIG11      (array [ 11 ] of char )
     dig_cnt     DMUNS4       (ushort: 4)
 (a) un_dpln     DMARSDP      (enum: 2)
         User, Compacted and Stored Tuple Layout  UNNSC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             ar_gpid           |           conv_indx           |
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                             new_dn                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                             new_dn                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                               |       |   |   |
 12 |                    new_dn                     |dig_cnt| a |***|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLunnsc

**Relation Description**
Uniform numbering network service code data.

This relation translates a network service code conversion index to an expanded telephone number.

Background: Network service codes provide an abbreviated code which private dialing plan ARS customers may use to access a variety of services (eg, private operator assistance). A valid network service code is 1, 2, or 3 digits in length.

In order to provide the maximum flexibility possible, an ARS group is allowed to define an NSC conversion

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associated with one dialing plan (in RLundtre), and specify that the conversion number obtained from RLunnsc be translated in the other dialing plan defined by the ARS group.

This flexibility produces one caveat. Assume an ARS customer uses RC/V to request deletion of a private dialing plan (say DP1) and there exists a tuple in RLundtre for that ar_gpid, with un_dpln = DP2, which recognizes NSC as the call destination. If the customer has specified that the DP2 network service code expands to a number which is to be analyzed in the deleted DP1 dialing plan, RC/V must fail the transaction to avoid creating a database inconsistency (which if allowed would result in manual action asserts from UNP digit analysis every time the DP2 nsc was dialed!)

ODA note - each RLundtre.conv_idx generated for NSC, associated with a given ar_gpid must map to a unique RLunnsc tuple.

**Attribute: ar_gpid**

**Fullname:** Automatic route selection (ARS) group ID.

**Attribute Description** Indicates the ARS group.
Verify that RLfacname has a tuple such that:

```
RLfacname.facid    = RLargp.ar_gpid
RLfacname.class    = FACARS
RLfacname.subclass = SCL_NULL
```

Verify existence of a tuple in RLundpinfo keyed by this ar_gpid.

Indicates the ARS group. Circuit Switch Voice UNP will be used by Circuit Switch Data groups. A Circuit Switch Data group can only be created after a valid Circuit Switch Voice group.

In addition, no more than 200 ARS groups will be defined in ODD (enforced by ODA and RC/V mappings).

**Attribute: conv_indx**

**Fullname:** Network service code conversion index number.

**Attribute Description** Indicates the index number associated with this on network service code. There must exist a tuple in RLundtre with
`RLundtre.conv_indx = RLunnsc.conv_indx and`
`RLundtre.ars_type = UNNSC for a given ar_gpid`
The RLundtre.un_dpln and RLunnsc.un_dpln are INDEPENDENT of one another. The former indicates the dialing plan which recognizes the nsc; the latter defines the dialing plan used to analyze the expanded number.

The index value is generated internally for each RLunnsc tuple. The rules for generation are in RLrc_unidx pop rules.

**Attribute: dig_cnt**

**Fullname:** Number of digits in new_dn.

**Attribute Description** A count of the number of digits contained in the expanded NSC TN. Must be set to the number of digits contained in the new_dn attribute.

**Attribute: un_dpln**

**Fullname:** Uniform Numbering dialing plan number.

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**Attribute Description** Uniform Numbering dialing plan number associated with the expanded NSC telephone number. There must be a tuple in RLundpinfo with RLundpinfo.un_dpln = RLunnsc.un_dpln and RLundpinfo.ar_gpid = RLunnsc.ar_gpid.

**Attribute: new_dn**

**Fullname:** Fully expand DN to use.

**Attribute Description** Full expanded telephone number associated with this network service code. Range of values: 0-9 are the only valid digits. The expression can be ('^[0-9]{7,11}$') The position of the new_dn will be left justification. Unused digits should be set to '\0' (Null value). Dependencies: Number of significant digits must be equal to the digit count in the dig_cnt attribute. The new_dn digit string must be defined in RLundtre for this ar_gpid, un_dpln.

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# UNOFFON

## 1. Description

Uniform numbering off network to on network conversion data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |

## 3. Field Layout

```
UNOFFON     relid = 770   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     ar_gpid     DMMCC_FID    (ushort)  <--- key
     conv_indx   DMUNS16      (ushort)  <--- key
     use_count   DMMCUSECNT   (ushort)
     dig_pfx     DMDIG7       (array [ 7 ] of char )
     dig_dlt     DMUNS4       (ushort: 4)
 (a) un_dpln     DMARSDP      (enum: 2)
         User, Compacted and Stored Tuple Layout    UNOFFON
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             ar_gpid           |           conv_indx           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |           use_count           |            dig_pfx            |
    | - - - - - - - - + - - - - - - - + - - - - - - - - + - - - - - - - |
    |                               |                               |
  8 |                            dig_pfx                            |
    | - - - - - - - - + - - - - - - - + - - - - - - - - + - - - - - - - |
    |                 |       |   |                               |
 12 |    dig_pfx      |dig_dlt| a |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 16 bytes )
```

## 4. Population Rules for RLunoffon

**Relation Description**
Uniform numbering off network relation.

This relation is used for uniform numbering off network to on network conversion data.Since ar_gpid is a key to this relation, please refer to the distribution rules for group partioned relations described in the relation RLargp.

**Attribute: ar_gpid**

**Fullname:** Automatic Route Selection group ID.

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**Attribute Description** Indicates the ARS group. Verify existence of a tuple in RLundpinfo keyed by the ar_gpid and un_dpln contained in this tuple.Circuit switch voice UNP will be used by circuit switch data groups. A circuit switch data group can only be created after a valid circuit switch voice group.In addition, no more than 200 ARS groups will be defined in ODD (enforced by ODA and RC/V mappings).

**Attribute: conv_indx**

**Fullname:** Off to On conversion index number.

**Attribute Description** This attribute indicates the index number associated with this off to on conversion.

```
There must be a tuple in RLundtre with RLundtre.
{_conv_indx = RLunoffon.conv_indx and RLundtre.ars_type
= UNOFFON for a given ar_gpid and un_dpln.
```

**Attribute: dig_pfx**

**Fullname:** 3 to 7 Digits to be prefixed to the Trunk Number

**Attribute Description** Three to seven digits to be prefixed to the Telephone Number. The digit position for dig_pfx should be left justified. Unused digits should be set to '\0' (null value). The expression is:

```
('^[2-9][0-9][0-9]{1,5}$')
RNX(XXXX)
R - any digit 2-9
N - any digit 0-9
X - any digit 0-9
```

**Attribute: dig_dlt**

**Fullname:** Number of digits to be deleted from off net number.

**Attribute Description** This attribute indicates the number of digits to be deleted from an off net number. There must exist at least one tuple in RLundtre, or RLuncnflct (not mutually exclusive) with RLundtre/conflct.conv_indx = RLunoffon.conv_indx and RLundtre/cnflct.ars_type = UNOFFON for a given ARS group. The number of digits collected in RLundtre/RLuncnflct must be greater than or equal to the value of RLunoffon.dig_dlt.

**Attribute: un_dpln**

**Fullname:** Indicates the PNDP which will interpret the converted On Net TN.

**Attribute Description** Indicates which dialing plan to use to interpret the converted on-net number.There must exist at least one tuple in RLundtre, or RLuncnflct (not mutually exclusive) with RLundtre/cnflct.ars_type = UNOFFON and RLundtre/cnflct.conv_indx = RLunoffon.conv_indx for a given ar_gpid.

The RLundtre.un_dpln or RLuncnflct.un_dpln value will be INDEPENDENT of the value of RLunoffon.un_dpln, since the former is the dialing plan in which the off-to-on conversion was recognized, and the latter is the dialing plan in which the on-net conversion will be analyzed.

**Attribute: use_count**

**Fullname:** Number of occurrences of On Net conversion index.

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**Attribute Description** This attribute indicates how many occurrences of this On Net conversion index are in the PNDPs for this ARS group. Since form/view input defines the off-to-on attribute value 'conv_indx' and it is possible to associate that index with more than one RLundtre tuple, a use_count is maintained for RC/V verification during deletions.

A value of 0 indicates that the tuple is eligible for removal, that is NO RLundtre or RLuncnflct tuple refers to this tuple.

The number of RLundtre and RLuncnflct tuples having the attributes ar_gpid and conv_indx must match 'use_count'.

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# UNON_DI

## 1. Description

Uniform numbering on-network digit interpreter for off-network conversion.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 25 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |

## 3. Field Layout

```
UNON_DI     relid = 771   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     ar_gpid     DMMCC_FID    (ushort)  <--- key
     dig_pfx     DMDIG11      (array [ 11 ] of char )
     digit       DMEDIGIT     (char)  <--- key
     previous    DMUNS8       (ushort: 8)  <--- key
     next        DMUNS8       (ushort: 8)
     prefix      DMUNS4       (ushort: 4)
 (a) delete      DMUNS3       (ushort: 3)
         User, Compacted and Stored Tuple Layout    UNON_DI
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            ar_gpid            |            dig_pfx            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                           dig_pfx                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                           dig_pfx                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |               |               |               |               |
 12 |    dig_pfx    |     digit     |    previous   |      next     |
    |---------------+---------------+---------------+---------------|
    |       |     |                                               |
 16 | prefix|  a  |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population Rules for RLunon_di

**Relation Description**
Uniform Numbering on-network digit interpreter for off-network conversion.

This relation, in conjunction with RLunonoff, is used to convert an on-network TN into the public off-net TN. Typically, the RNX can be used to map to the associated NPA-NXX for the off net TN. This is the translation done

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by relation RLunonoff. However, there are situations when the thousands digit or even the hundreds digit determines the associated NPA-NXX. This occurs when a single RNX is associated with several locations. In this case the relation RLunonoff provides the initial table index into relation RLunon_di. RLunon_di then does digit by digit interpretation until the NPA-NXX can be determined.

**Attribute: ar_gpid**

**Fullname:** Automatic Route group ID.

**Attribute Description** Indicates the Automatic Route group ID. Verify that RLfacname has a tuple such that:

```
RLfacname.facid = RLargp.ar_gpid
RLfacname.class = FACARS
RLfacname.subclass = SCL_NULL
```

Verify existence of tuple(s) in RLargp keyed by this ar_gpid.

Indicates the automatic route group ID. circuit switch voice UNP will be used by circuit switch data groups. A circuit switch data group can only be created after a valid circuit switch voice group.

In addition, no more than 200 ARS groups will be defined in ODD (enforced by ODA and RC/V mappings).

**Attribute: previous**

**Fullname:** previous digit

**Attribute Description** Table number from either the RLunonoff relation or from the RLunon_di (same relation) tuple corresponding to the previous digit. One of the following must be true:

(1) There must exist a tuple in relation RLunonoff with the RLunonoff.table = RLunon_di.previous.

or

(2) There must exist another tuple in RLunon_di with a 'next' attribute equal this tuple's 'previous'.

**Attribute: digit**

**Fullname:** digit to interpret.

**Attribute Description** The current digit being interpreted.

**Attribute: next**

**Fullname:** next table index.

**Attribute Description** Identifies the next table to interpret the next digit.
A non-null value implies existence of another tuple in this relation with 'previous' equal to this tuple's 'next'. In addition the delete, prefix, and dig_pfx attributes must be null values.

When next is null then delete, prefix, and dig_pfx must be non-null.

The value 'next' is an internally generated index. A digit position in the on-to-off digit string could require up to 10 tuples and defines a table. IF the next digit position is to be analyzed in a given string AND there is no tuple in RLunon_di for that table, THEN generate the index. For index

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generation information refer to RLrc_unidx pop rules.

**Attribute: delete**

**Fullname:** digit to be deleted.

**Attribute Description** Number of digits to be deleted from the On Net telephone number (TN), from the most leftmost digit position.Must be null when 'next' is not null.

**Attribute: prefix**

**Fullname:** number of digits to prefix.

**Attribute Description** Number of digits to be prefixed to build the Of Net TN.

Must be null when 'next' is not null.

**Attribute: dig_pfx**

**Fullname:** the digit string to prefix.

**Attribute Description** Indicates the string of digits to be prefixed to build the Off Net TN. This is a character string of 0 to 11 digits. The digit position of dig_pfx should be left justified. Unused digits should be set to '\0' (Null value).

The expression: ('^[0-9]{0,11}$')

Number of digits determined by prefix.

Must be null when `next` is not null.

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# UNONOFF

## 1. Description

Uniform Numbering on-network to off-network conversion data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 100 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |

## 3. Field Layout

```
UNONOFF     relid = 772   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     ar_gpid     DMMCC_FID    (ushort)  <--- key
     dig_pfx     DMDIG11      (array [ 11 ] of char )
     rnx         3DIGSTRG     (array [ 3 ] of char )  <--- key
     table       DMUNS8       (ushort: 8)
     prefix      DMUNS4       (ushort: 4)
 (a) delete      DMUNS3       (ushort: 3)
         User, Compacted and Stored Tuple Layout    UNONOFF
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            ar_gpid            |            dig_pfx            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  4 |                           dig_pfx                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                           dig_pfx                             |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |               |                                               |
 12 |    dig_pfx    |                      rnx                      |
    |---------------+---------------+---------------+---------------|
    |               |       |       |                               |
 16 |     table     | prefix|   a   |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

## 4. Population Rules for RLunonoff

**Relation Description**
Uniform numbering on-network to off-network conversion data.

This relation, in conjunction with RLunon_di, is used to convert an on-network TN into the public off-net TN. Typically, the RNX can be used to map to the associated NPA-NXX for the off net TN. This is the translation done by this relation. However, there are situations when the thousands digit or even the hundreds digit determines the

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associated NPA-NXX. This occurs when a single RNX is associated with several locations. The relation RLunon_di provides the additional digit interpretation when this situation occurs (see associated population rules).

**Attribute: ar_gpid**

**Fullname:** Automatic Route group ID.

**Attribute Description** Indicates the Automatic Route Selection group.

Verify that RLfacname has a tuple such that:

```
RLfacname.facid    = RLunonoff.ar_gpid
RLfacname.class    = FACARS
RLfacname.subclass = SCL_NULL
```

Verify existence of tuple(s) in RLargp keyed by this ID.

Circuit Switch Voice UNP will be used by Circuit Switch Data groups. A Circuit Switch Data group can only be created after a valid Circuit Switch Voice group.

In addition, no more than 200 ARS groups will be defined in ODD (enforced by ODA and RC/V mappings).

**Attribute: rnx**

**Fullname:** three digit RNX to be converted.

**Attribute Description** Three digit on net RNX to be converted to the TN.

**Attribute: table**

**Fullname:** Table, index to the digit by digit interpreter.

**Attribute Description** Index into the digit by digit interpreter for on to off conversion. This is populated when the RNX is not sufficient to determine the appropriate off-network TN. If the RNX is sufficient then table is set to the null value and further digit by digit interpretation is not required.

A non-null value implies the existence of at least one tuple in RLunon_di keyed by 'ar_gpid' and 'table' values in this tuple, (RLunonoff.table = RLunon_di.previous).

If 'table' is null then 'delete', 'prefix', and 'dig_pfx' must be non-null in this tuple.

The value 'table' is an internally generated index. The value 'table' is generated when a tuple is placed in RLunonoff which requires interpretation beyond RNX in RLunon_di. Refer to the generation description in RLrc_unidx pop rules.

Note: It is NOT possible to define both an RNX conversion and RNX +X based conversion for a given 'ar_gpid', 'rnx' pair. It is possible to define both an RNX+X and an RNX+Y conversion.

**Attribute: delete**

**Fullname:** digits to delete.

**Attribute Description** Number of digits to be deleted from the On Net TN. Must be null when table is not null.

**Attribute: prefix**

**Fullname:** number of digits to build prefix.

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**Attribute Description** Number of digits to be prefixed to build the Off Net TN. Must be null when table is not null.

**Attribute: dig_pfx**

**Fullname:** digit string to prefix.

**Attribute Description** Indicates the string of 0 to 11 digits to be prefixed to build the Off Net TN which will returned to ARS. The digit position of dig_pfx should be left justified. Unused digit should be set to '\0' (Null value). The expression: (^[0-9]{0,11}$')
Number of digits determined by prefix. Must be null when `table` is not null.

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# UNRMK_R

## 1. Description

Root storage relation for RC_UNRMK.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 25000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | RCDATA |
| relation type | DBSTORAGE |
| head page size | 2048 |
| data page size | 256 |
| foldtype | DBGC31 |
| permutation type | perm |

## 3. Field Layout

```
UNRMK_R     relid = 1723  DBSTORAGE  DBACC_HASH  DBPRAM    LP      RCDATA
     ar_gpid     DMMCC_FID    (ushort)  <--- key
     remarks     DMGK16       (ulong: 16)
 (a) un_dpln     DMARSDP      (enum: 2)  <--- key
     inc_digs    DMDG18ST     (array [ 18 ] of char )  <--- key, compacted
            User Tuple Layout   UNRMK_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            ar_gpid            |            remarks            |
    |---------------+---------------+---------------+---------------|
    |   |           |                                               |
  4 | a |***********|                   inc_digs                    |
    | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                           inc_digs                            |
    | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
    |                                                               |
 12 |                           inc_digs                            |
    | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
    |                                                               |
 16 |                           inc_digs                            |
    | - - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - |
    |                                                   |           |
 20 |                   inc_digs                        |***********|
    |---------------+---------------+---------------+---------------|
      ( 24 bytes )
     ar_gpid     DMMCC_FID    (ushort)  <--- key
     remarks     DMGK16       (ulong: 16)
 (a) un_dpln     DMARSDP      (enum: 2)  <--- key
     inc_digs    DMDIG18STR   (array [ 10 ] of char )  <--- key, compacted
          Compacted Tuple Layout    UNRMK_R
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
```

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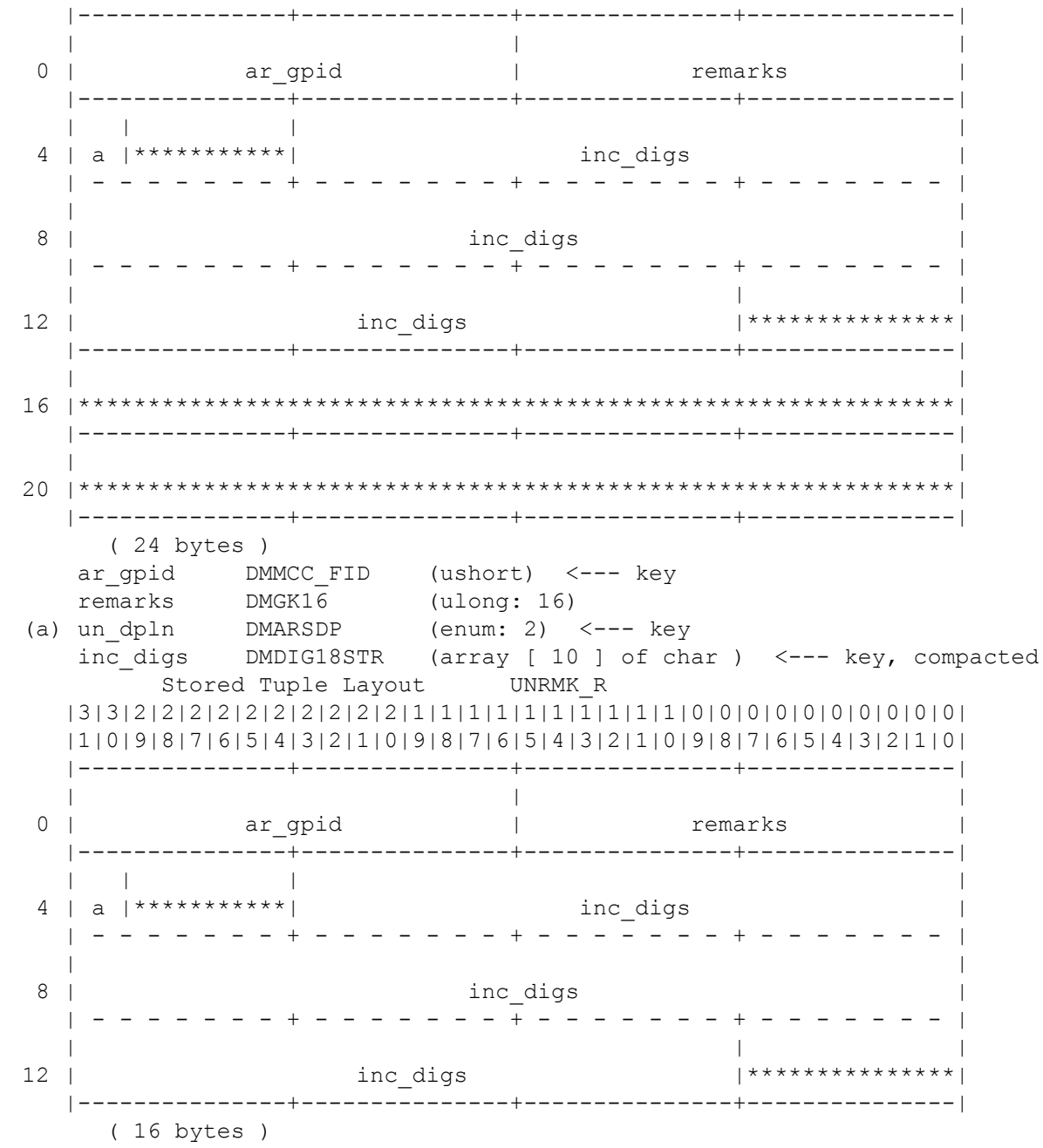


## 4. Population Rules for RLunrmk_r

There are no population rules for this relation.

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# UNSDS

## 1. Description

This relation contains the Uniform Numbering selective destination digit interpreter.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 256 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFG |
| application | RCMAP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |

## 3. Field Layout

```
UNSDS       relid = 773   DBSTATIC   DBACC_HASH  DBPRAM    LPFG    RCMAP
     ar_gpid     DMMCC_FID    (ushort)     <--- key
     previous    DMUNS16      (ushort)     <--- key
     next        DMUNS16      (ushort)
     ars_idx     DMRTEIDX     (ushort: 14)
 (a) route_type  DMUNROUTE    (enum: 2)
     digit       DMEDIGIT     (char)     <--- key
     frl         DMARNFRL     (ushort: 5)
 (b) un_dpln     DMARSDP      (enum: 2)
 (c) nodal_56k   DMBOOL       (enum: 1)
 (d) ars_type    DMUNDSTN     (enum: 4)
         User, Compacted and Stored Tuple Layout  UNSDS
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            ar_gpid            |            previous           |
    |---------------+---------------+---------------+---------------|
    |                               |                           |   |
  4 |              next             |          ars_idx          | a |
    |---------------+---------------+---------------+---------------|
    |               |         |   | |       |                       |
  8 |     digit     |   frl   | b |c|   d   |***********************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLunsds

**Relation Description**
Uniform numbering selective destination.

Uniform numbering selective destination digit interpreter.

Since ar_gpid is a key to this relation, please refer to the means to define selective routing treatment for a set of dialed numbers. This set of numbers will be a subset of those recognized by RLundtre or RLuncnflct which then collect but don't analyze some number of trailing digits.

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This rule is a conditional statement:
IF a digit string of length N is recognized in RLundtre OR RLuncnflct, AND for that string SDS is required for K additional digits which are recognized in RLunsds, THEN give the selective destination routing, ELSE give the standard routing.

added by k7112

Software Defined Network (SDN) is defined in both RLundtre and RLuncnflct.

SDN is not allowed for Selective Destination Screening (SDS), therefore SDN bit is not defined in RLunsds.

**Attribute: ar_gpid**

**Fullname:** Automatic route selection group id.

**Attribute Description** Indicates the Automatic Route selection group.

Verify that RLfacname has a tuple such that:

```
RLfacname.facid = RLargp.ar_gpid
RLfacname.class = FACARS
RLfacname.subclass = SCL_NULL
```

Verify existence of tuple in RLundpinfo keyed by this ar_gpid, and un_dpln pair.

Indicates the Automatic Route selection group. Circuit Switch Voice UNP will be used by Circuit Switch Data groups. A Circuit Switch Data group can only be created after a valid Circuit Switch Voice group.

In addition, no more than 200 ars groups will be defined in ODD (enforced by ODA and RCV mappings).

**Attribute: previous**

**Fullname:** previous digits.

**Attribute Description** Index value conv_indx from the either RLundtre or RLuncnflct tuple: or from the preceding RLunsds tuples next (from the previous digit).

One of the following must be true:

(1) There must exist a tuple in relation RLundtre or in RLuncnflct with:

```
RLundtre/cnflct.conv_indx = RLunsds.previous;
RLundtre/cnflct.un_dpln = RLunsds.un_dpln;
RLundtre/cnflct.ar_gpid = RLunsds.ar_gpid;
              or
```

(2) There must exist another tuple in RLunsds such that RLunsds.previous = RLunsds.next, for this 'ar_gpid' and 'un_dpln' pair.

**Attribute: digit**

**Fullname:** current digit.

**Attribute Description** Indicates the current digit being interpreted. The valid range is from 0 to 9.

**Attribute: next**

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**Fullname:** next table to interpret digits.

**Attribute Description** Identifies the next table to interpret the next digit.

A non-null value implies the existence of another tuple in this relation such that:

```
RLunsds.next = RLunsds.previous.
If RLunsds.next != Null then RLunsds.ars_idx, RLunsds.ars_type,
and RLunsds.route_type must be Null.
If RLunsds.next = Null Then
```

(1) RLunsds.ars_type must not be Null.

(2) If RLunsds.ars_type = (UNNORMON or UNNORMOFF) Then RLunsds.ars_idx, and RLunsds.route_type must not be Null.

(3) If RLunsds.ars_type = UNESCPOTS Then RLunsds.ars_idx, and RLunsds.route_type must be Null.

The value 'next' is an internally generated index. A digit position in the selective destination digit string could require up to 10 tuples and defines a table. If the next digit position requires analysis in a given string and there is no tuple in RLunsds for that table, then generate an index. For index generation information refer to RLrc_unidx pop rules.

**Attribute: ars_idx**

**Fullname:** Automatic Route Selection index.

**Attribute Description** ARSindex from 0 (null value) to AVRIMAX().

when not null there must exist a tuple in ARS screening relation with RLarscrn.ars_idx =RLunsds.ars_idx, for this ar_gpid.

This attribute must be null if `next` is not null. If ars_idx is not null then ars_type and route_type must not be Null.

**Attribute: ars_type**

**Fullname:** Automatic Route Selection type.

**Attribute Description** destination type associated with the dialed digits. The only valid values are:

UNNORMON - - on-net number

UNNORMOFF - - off-net number

UNESCPOTS - - Escape to Office Dialing Plan

UNULLDST - - null value

ars_type must be null if next is not null.

```
If ars_type = (UNNORMON or UNNORMOFF) Then
       ars_idx and route_type must Not be Null.
If ars_type = UNESCPOTS Then
       ars_idx and route_type must be Null.
```

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**Attribute: route_type**

**Fullname:** route type.

**Attribute Description** Route type. The valid values are:

(1) UN_MC

(2) UN_MCTRAN

(3) UN_NULL

route_type must be null when next is not null. route_type must not be Null when ars_idx is not Null, and ars_type = (UNNORMON or UNNORMOFF). route_type must be Null when ars_type = UNESCPOTS.

**Attribute: un_dpln**

**Fullname:** Uniform Numbering dialing plan number.

**Attribute Description** Uniform Numbering dialing plan number.

All the associated entries for a given ar_gpid and un_dpln coming from either RLundtre or RLuncnflct with the matched ar_gpid and un_dpln must be consistent in this entry.

As N Since an ar_gpid can have two dialing plans, in such case a tuple in RLunsds can never be shared by the two dialing plans with the same ar_gpid. That is, for the same ar_gpid, each dialing plan has its own digit link list (digit tree) in RLunsds. The two link lists can never merge at a common point.

**Attribute: frl**

**Fullname:** facility restriction level associated with dialed string

**Attribute Description** Facility Restriction Level associated with off-network numbers, that do not have private destination.

The use of this attribute frl, values 0 - 16 is valid only if the ars_type is UNESCPOTS. ARFRL_NONUSE (31) value must be set for other types of ars_type.

**Attribute: nodal_56k**

**Fullname:** EOLN 56K data call indicator

**Attribute Description** This field indicates whether the bearer capability of the call shall be changed to 56Kbps data or not. SFID218 must be active before setting this field.

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# UTTRK

## 1. Description

Feature data for utility telemetry trunk groups.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 400 |
| expected tuples in relation | 10 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFR |
| application type | RCMAP |
| relation type | DBSTATIC |

## 3. Field Layout

```
UTTRK       relid = 2211  DBSTATIC   DBACC_HASH  DBPRAM    LPFR    RCMAP
     grpnum      DMGRPNUM     (ushort)     <--- key
     ctidig      DMUSHORT     (ushort)
     st          DMUSHORT     (ushort)
     stp         DMUSHORT     (ushort)
     st2p        DMUSHORT     (ushort)
     maxcall     DMUSHORT     (ushort)
         User, Compacted and Stored Tuple Layout  UTTRK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             grpnum            |             ctidig            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |               st              |               stp             |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |              st2p             |            maxcall            |
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
```

## 4. Population Rules for RLuttrk

**Relation Description**
Utility Telemetry Trunk Group Data.

This relation is used for the Suppressed Ringing Special Feature to store the Utility Telemetry Trunk Parameters. The Suppressed Ringing Special Feature is a secured feature associated with SFID 186. This feature allows a Utility Telemetry Interface to be alerted to read a utility meter without ringing the customers phone.

**Attribute: grpnum**

**Fullname:** Trunk Group Number

**Attribute Description** Trunk group number of a utility telemetry trunk group.

**Attribute: ctidig**

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**Fullname:** Call Type Information Digits

**Attribute Description** This field stores the Call Type Information Off-Hook TIU type. The range is 0-99.

**Attribute: st**

**Fullname:** Start Pulse Digits

**Attribute Description** This field stores the Start Pulse Digits. The range is 0-999.

**Attribute: stp**

**Fullname:** Start Pulse Digits Prime

**Attribute Description** This field stores the Start Pulse Prime Digits. The range is 0-999.

**Attribute: st2p**

**Fullname:** Start Pulse Prime 2 Digits

**Attribute Description** This field stores the Start Pulse Prime 2 Digits. The range is 0-999.

**Attribute: maxcall**

**Fullname:** Maximum UTT call duration.

**Attribute Description** This field stores the Maximum Call Duration. The range is 1-999.

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## 2.22 RELATIONS: V

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# VALOFFC

## 1. Description

Data associated with ISP operator trunks for which OSPS operator can enter billing number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 4095 |
| expected tuples in relation | 10 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| permutation type | un_perm |

## 3. Field Layout

```
VALOFFC     relid = 356   DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     tgroup      DMGRUPNM     (ushort: 13)     <--- key
     oamap1      DMOAH32      (ulong)
     oamap2      DMOAH32      (ulong)
     oamap3      DMOAH32      (ulong)
     oamap4      DMOAH32      (ulong)
     oamap5      DMOAH32      (ulong)
     oamap6      DMOAH32      (ulong)
     oamap7      DMOAH32      (ulong)
     oamap8      DMOAH32      (ulong)
     oamap9      DMOAH32      (ulong)
     oamap10     DMOAH32      (ulong)
     oamap11     DMOAH32      (ulong)
     oamap12     DMOAH32      (ulong)
     oamap13     DMOAH32      (ulong)
     oamap14     DMOAH32      (ulong)
     oamap15     DMOAH32      (ulong)
     oamap16     DMOAH32      (ulong)
     oamap17     DMOAH32      (ulong)
     oamap18     DMOAH32      (ulong)
     oamap19     DMOAH32      (ulong)
     oamap20     DMOAH32      (ulong)
     oamap21     DMOAH32      (ulong)
     oamap22     DMOAH32      (ulong)
     oamap23     DMOAH32      (ulong)
     oamap24     DMOAH32      (ulong)
     oamap25     DMOAH32      (ulong)
         User, Compacted and Stored Tuple Layout    VALOFFC
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |           tgroup              |*******************************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
  4 |                               oamap1                          |
    |---------------+---------------+---------------+---------------|
```

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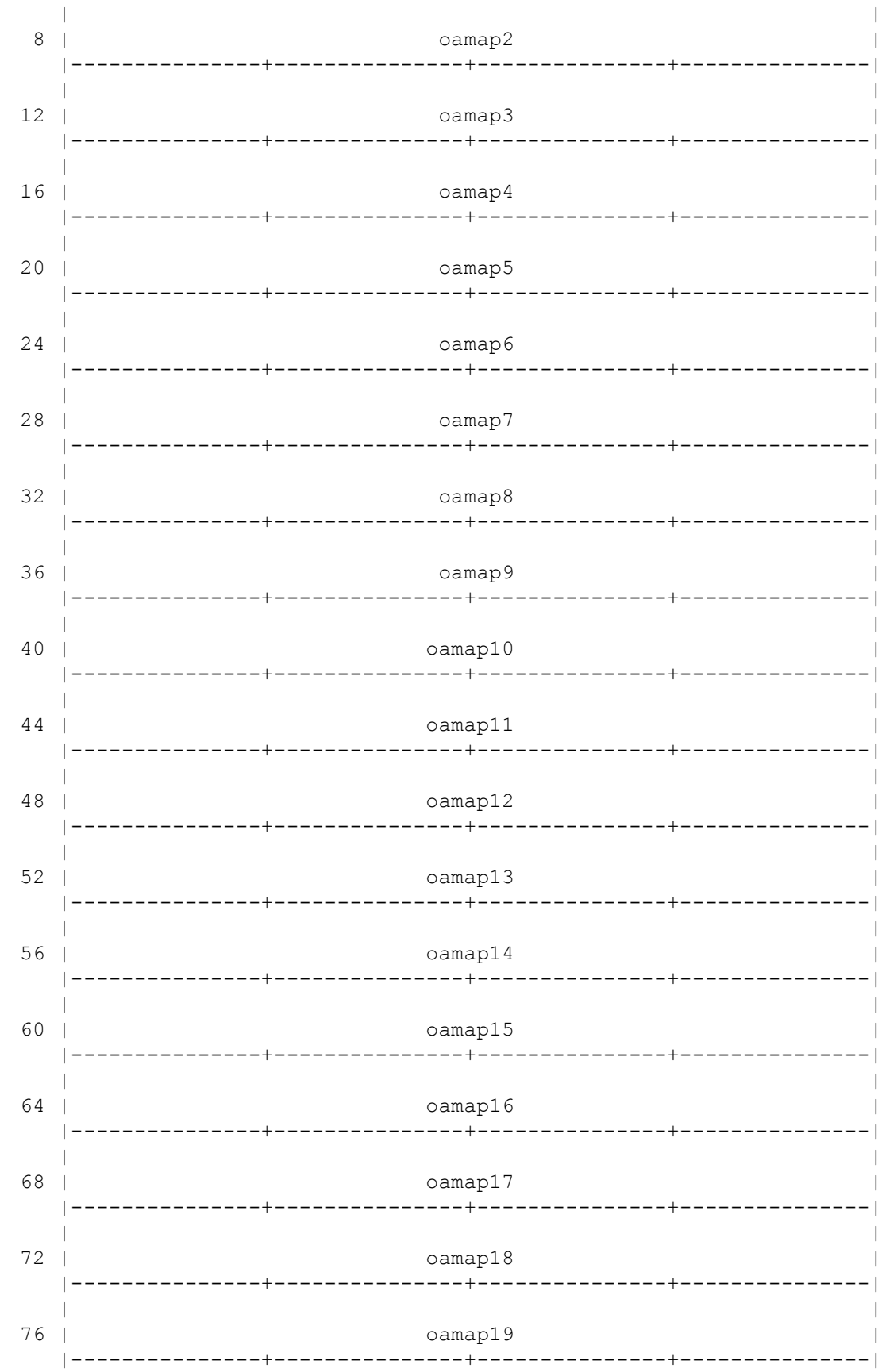


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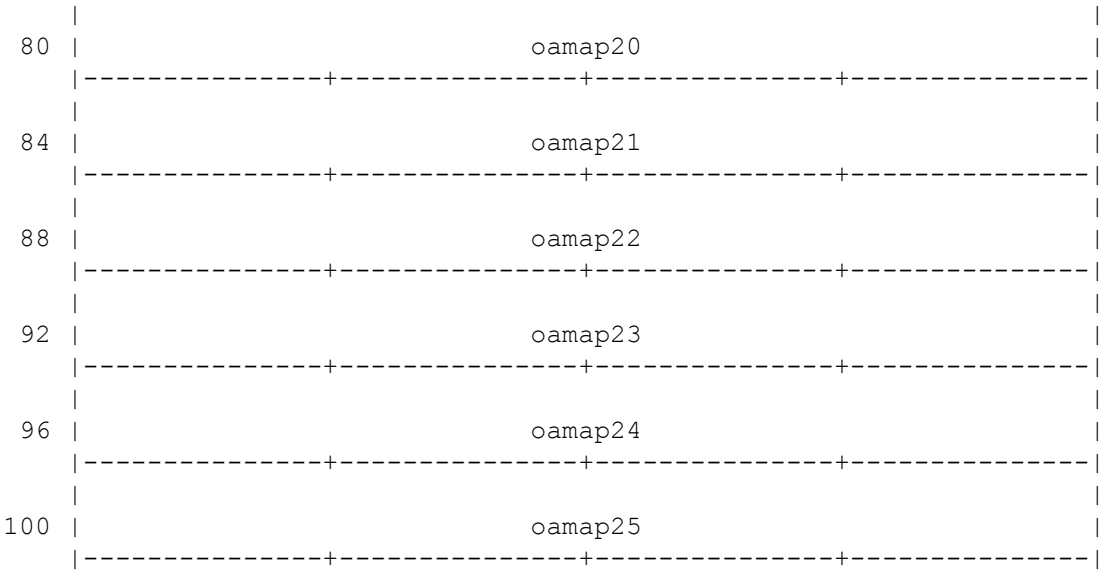


## 4. Population Rules for RLvaloffc

**Relation Description**
Valid office codes.

Data associated with ISP operator trunks for which the OSPS operator can enter a billing number.

**Attribute: tgroup**

**Fullname:** trunk group number

**Attribute Description** This is populated for those trunk groups where the corresponding tuple in

RLrctgrprk servclass is FC_ISPOPR or FC_OPR_DIOR.

**Attribute: oamap1**

**Fullname:** ONI/ANIF map

**Attribute Description** Valid NXXs bit mapped (recent changeable). The range of the bit map is 000-799, which corresponds to valid NXXs within the 200-999 range. This bit map is comprised of 25 fields, OAMAP1 - OAMAP25. Each field contains information for 32 NXXs. Each bit of the NXX bit string represents a valid NXX (200-999 for all map fields). NXX 200 is represented by bit 0, NXX 201 is represented by bit 1, etc. Bit 0 is the low order bit. Each bit is independently set to either a 0 or 1.

| | | |
|---|---|---|
| OAMAP1 | NXXs | 200-231 |
| OAMAP2 | NXXs | 232-263 |
| OAMAP3 | NXXs | 264-295 |
| OAMAP4 | NXXs | 296-327 |
| OAMPA5 | NXXs | 328-359 |
| OAMAP6 | NXXs | 360-391 |
| OAMPA7 | NXXs | 392-423 |
| OAMAP8 | NXXs | 424-455 |
| OAMAP9 | NXXs | 456-487 |
| OAMAP10 | NXXs | 488-519 |
| OAMAP11 | NXXs | 520-551 |
| OAMAP12 | NXXs | 552-583 |
| OAMAP13 | NXXs | 584-615 |
| OAMAP14 | NXXs | 616-647 |
| OAMAP15 | NXXs | 648-679 |
| OAMAP16 | NXXs | 680-711 |
| OAMAP17 | NXXs | 712-743 |
| OAMAP18 | NXXs | 744-775 |
| OAMAP19 | NXXs | 776-807 |
| OAMAP20 | NXXs | 808-839 |
| OAMAP21 | NXXs | 840-871 |
| OAMAP22 | NXXs | 872-903 |
| OAMAP23 | NXXs | 904-935 |
| OAMAP24 | NXXs | 936-967 |
| OAMAP25 | NXXs | 968-999 |

**Attribute: oamap[*]**

**Fullname:** ONI/ANIF map

**Attribute Description** ******* SEE OAMAP1 *******

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# VMSTPR

## 1. Description

This relation contains the VMS Terminating Restrictions of NPA-NXXs.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1024 |
| access type | DBACC_HASH |
| foldtype | DBDEFAULT |
| memory type | DBPRAM |
| distribution | FG |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 256 |
| page level | 0 |
| permutation type | perm |

## 3. Field Layout

```
VMSTPR      relid = 2771  DBSTATIC   DBACC_HASH  DBPRAM    FG      NULL
     ospsff2     DMUSHORT     (ushort)
     ospsff3     DMUSHORT     (ushort)
     ospsff4     DMUSHORT     (ushort)
     ospsff5     DMUSHORT     (ushort)
     line        DMUNS14      (ushort: 14)     <--- key
 (a) ospsff7     DMBOOL       (enum: 1)
 (b) ospsff8     DMBOOL       (enum: 1)
     npa         DMUNS10      (ushort: 10)     <--- key
 (c) ospsff9     DMBOOL       (enum: 1)
 (d) ospsff10    DMBOOL       (enum: 1)
     nxx         DMUNS10      (ushort: 10)     <--- key
     ospsff6     DMCHAR       (char)
     ospsff1     DMHEX32      (ulong)
         User, Compacted and Stored Tuple Layout VMSTPR
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |            ospsff2            |            ospsff3            |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  4 |            ospsff4            |            ospsff5            |
    |---------------+---------------+---------------+---------------|
    |                             | | |                   | | |       |
  8 |            line             |a|b|        npa        |c|d|*******|
    |---------------+---------------+---------------+---------------|
    |                   |           |               |               |
 12 |        nxx        |***********|    ospsff6    |***************|
    |---------------+---------------+---------------+---------------|
    |                                                               |
 16 |                           ospsff1                             |
    |---------------+---------------+---------------+---------------|
       ( 20 bytes )
```

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## 4. Population Rules for RLvmstpr

**Relation Description**
Terminating Restrictions of NPA-NXXs.

RLvmstpr has been allocated for the VMS Access Dialing Changes feature (98-5E-3633).

**Attribute: npa**

**Fullname:** NPA

**Attribute Description** The key field NPA is in a range of 1 - 999.

**Attribute: nxx**

**Fullname:** NXX

**Attribute Description** The NXX field has a range of 1 - 999, or 1000 for blank.

**Attribute: line**

**Fullname:** Line

**Attribute Description** The LINE field has a range of 0 - 9999, or 10000 for blank.

**Attribute: ospsff1**

**Fullname:** Spare unsigned long attribute.

**Attribute Description** Unknown.

**Attribute: ospsff2**

**Fullname:** Spare unsigned short attribute.

**Attribute Description** Unknown.

**Attribute: ospsff3**

**Fullname:** Spare unsigned short attribute.

**Attribute Description** Unknown.

**Attribute: ospsff4**

**Fullname:** Spare unsigned short attribute.

**Attribute Description** Unknown.

**Attribute: ospsff5**

**Fullname:** Spare unsigned short attribute.

**Attribute Description** Unknown.

**Attribute: ospsff6**

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**Fullname:** Spare char attribute.

**Attribute Description** Unknown.

**Attribute: ospsff7**

**Fullname:** Spare boolean attribute.

**Attribute Description** Unknown.

**Attribute: ospsff8**

**Fullname:** Spare boolean attribute.

**Attribute Description** Unknown.

**Attribute: ospsff9**

**Fullname:** Spare boolean attribute.

**Attribute Description** Unknown.

**Attribute: ospsff10**

**Fullname:** Spare boolean attribute.

**Attribute Description** Unknown.

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# VPIDB_F

## 1. Description

This relation maps from the Virtual Peripheral Interface Data Bus (VPIDB) to the SONET Facility number.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1008 |
| expected tuples in relation | 140 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| trigger function | PCvpidb_trg |
| insert trigger | DBYES |
| update trigger | DBYES |
| delete trigger | DBYES |
| end of transaction trigger | DBYES |

## 3. Field Layout

```
VPIDB_F     relid = 2096  DBSTATIC   DBACC_HASH  DBPRAM    FP      NULL
     fac_ckt     DMCIRCUIT    (ushort)
     unitnumber  DMUNITNO     (ushort: 8)     <--- key
     unittype    DMUNITTYPE   (enum: 7)     <--- key
 (a) appunit_asgnd  DMBOOL       (enum: 1)
     vpidb       DMVPIDB      (ushort: 6)     <--- key
     pct_link    DMPCTLNK     (ushort: 5)     <--- key
     sfacno      DMSFACNO     (ushort: 5)
 (b) app_type    DMAPP_TYPE   (enum: 4)
     sts_num     DMSTS        (ushort: 4)
         User, Compacted and Stored Tuple Layout    VPIDB_F
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                |               |             | |
  0 |            fac_ckt             |   unitnumber  |   unittype  |a|
    |---------------+---------------+---------------+---------------|
    |           |         |         |       |       |               |
  4 |   vpidb   | pct_link|  sfacno |   b   |sts_num|***************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
```

## 4. Population Rules for RLvpidb_f

**Relation Description**
Virtual PIDB to Facility Number.

This relation associates a Virtual Peripheral Interface Data Bus (VPIDB) with a SONET STS-1 facility. A VPIDB is a structure on a Peripheral Control and Timing (PCT) link. This relation is the reverse mapping of the RLf_vpidb relation. For each entry in RLvpidb_f there must be an associated entry in RLf_vpidb.

**Attribute: unittype**

**Fullname:** Peripheral Unit Type

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**Attribute Description** The type of peripheral unit that terminates the facility.

**Attribute: unitnumber**

**Fullname:** unit number

**Attribute Description** The unit number that identifies the peripheral unit.

**Attribute: pct_link**

**Fullname:** peripheral control and timing link number

**Attribute Description** This attribute identifies the relative PCT link number for the peripheral. The range is 0 through 11 with links 0 through 5 being in data group 0 and links 6 through 11 in data group 1. There is only one tuple in this relation for every pair of peripheral links connected to the CDs.

**Attribute: vpidb**

**Fullname:** virtual PIDB number

**Attribute Description** This attribute identifies the structure on the associated PCT link.

**Attribute: sts_num**

**Fullname:** STS-1 Path number

**Attribute Description** This attribute identifies the parent STS-1 path of the specified SONET facility number.

**Attribute: app_type**

**Fullname:** Application type

**Attribute Description** This attribute is the application using the VPIDB on the PCT link. Note that this field is not updateable. In order to change the application type of a tributary it is necessary to delete the tributary and then re-insert it with the desired application.

**Attribute: fac_ckt**

**Fullname:** Facility Circuit

**Attribute Description** This attribute contains the circuit name of the VT1 associated with the VPIDB.

**Attribute: appunit_asgnd**

**Fullname:** Application Unit Assigned Indicator

**Attribute Description** This attribute indicates whether a transport facility with the ability to host a remote application actually has a remote unit assigned, or if it is in the "limbo" state. Note that the "app_type" attribute may indicate the type of application to be assigned to this transport (in the near future), even if this attribute (appunit_asgnd) indicates it hasn't been assigned yet.

**Attribute: sfacno**

**Fullname:** SONET Facility Number

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**Attribute Description** This attribute identifies the subtending SONET DS1 facility on a STS-1 path.

**Defines:** "db/DMcircuit.h",
"db/DMvpidb.h"

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## 2.23 RELATIONS: W

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# WBTBLOCK

## 1. Description

Wideband trunk block to hardware mapping. This relation is used to enforce rules of hardware assignment associated with trunks in a wideband trunk block.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 23000 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LPFP |
| application | GCRTG |
| relation type | DBSTATIC |
| expected number of tuples | 15 |
| permutation type | un_perm |

## 3. Field Layout

```
WBTBLOCK    relid = 1922  DBSTATIC   DBACC_HASH  DBPRAM    LPFP    GCRTG
     grpnum      DMGRUPNM     (ushort: 13)     <--- key
     tblock      DMUNS7       (ushort: 7)     <--- key
     sm          DMMODULE     (ushort: 8)
     prigrp      DMPRIGRP     (ushort: 12)
     bmap        DMBMAP       (ulong: 24)
     base_cic    DMCKT_CODE   (ushort: 14)
     port1       DMPORT       (ushort)
     port2       DMPORT       (ushort)
     port3       DMPORT       (ushort)
     port4       DMPORT       (ushort)
     port5       DMPORT       (ushort)
     port6       DMPORT       (ushort)
     port7       DMPORT       (ushort)
     port8       DMPORT       (ushort)
     port9       DMPORT       (ushort)
     port10      DMPORT       (ushort)
     port11      DMPORT       (ushort)
     port12      DMPORT       (ushort)
     port13      DMPORT       (ushort)
     port14      DMPORT       (ushort)
     port15      DMPORT       (ushort)
     port16      DMPORT       (ushort)
     port17      DMPORT       (ushort)
     port18      DMPORT       (ushort)
     port19      DMPORT       (ushort)
     port20      DMPORT       (ushort)
     port21      DMPORT       (ushort)
     port22      DMPORT       (ushort)
     port23      DMPORT       (ushort)
     port24      DMPORT       (ushort)
         User, Compacted and Stored Tuple Layout   WBTBLOCK
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                         |     |             |               | |
```

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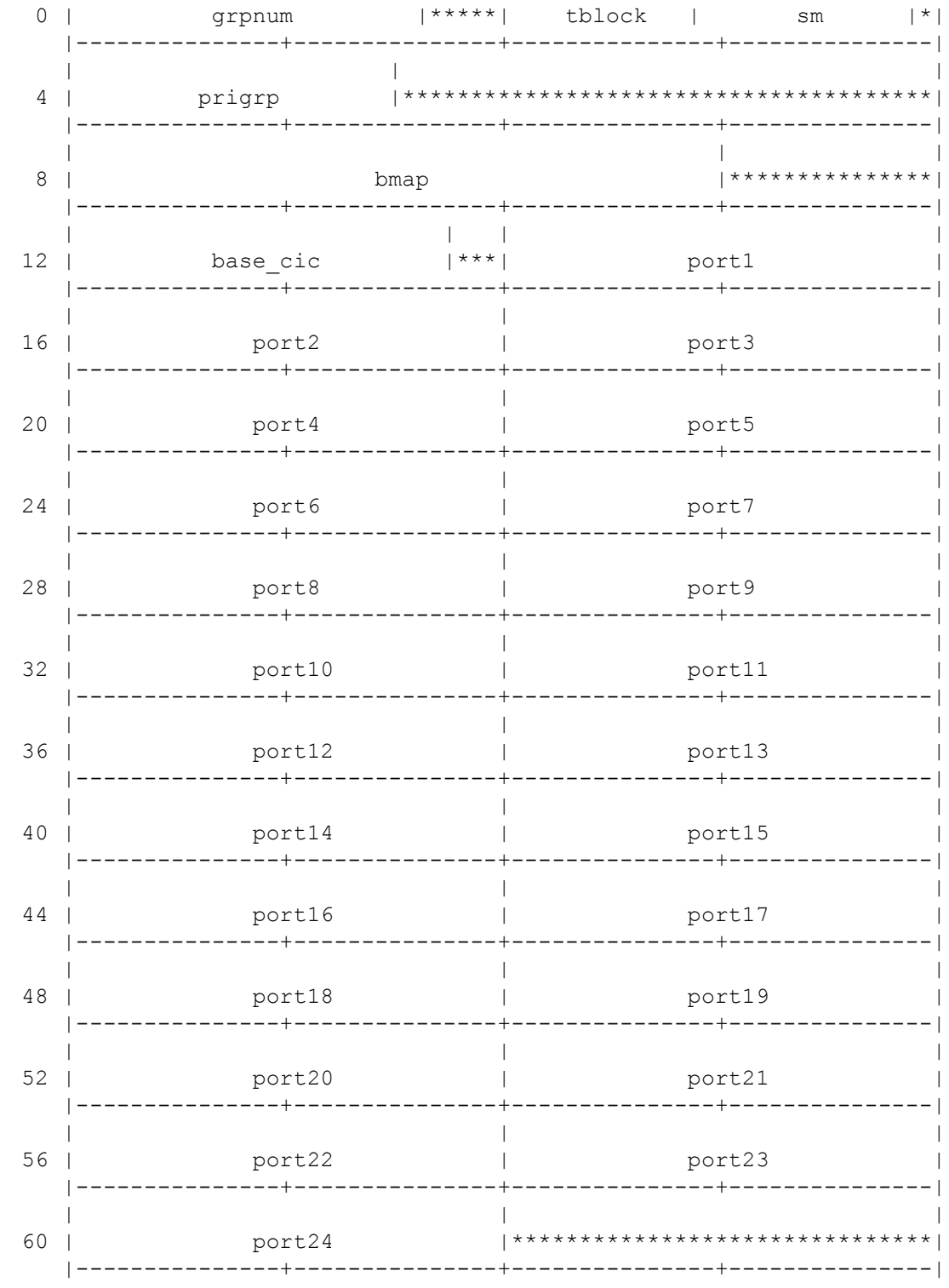


( 64 bytes )

```
domain alWBTBLOCK struct  (7 sub-attributes)
        grpnum      .6.fake      (ushort: 13)
        tblock      .7.fake      (ushort: 7)
        sm          .8.fake      (ushort)
        prigrp      .9.fake      (ushort: 12)
        bmap        .10.fake     (ulong)
```

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```
        base_cic    .11.fake     (ushort: 14)
        ports       .12.fake     (array [ 24 ] of unsigned short )
        Structure Layout      alWBTBLOCK
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |                         |     |             |               | |
 0 |          grpnum         |*****|    tblock   |       sm      |*|
   |---------------+---------------+---------------+---------------|
   |                       |                                       |
 4 |         prigrp        |***************************************|
   |---------------+---------------+---------------+---------------|
   |                                               |               |
 8 |                      bmap                     |***************|
   |---------------+---------------+---------------+---------------|
   |                           |   |                               |
12 |          base_cic         |***|             ports             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
16 |                             ports                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
20 |                             ports                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
24 |                             ports                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
28 |                             ports                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
32 |                             ports                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
36 |                             ports                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
40 |                             ports                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
44 |                             ports                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
48 |                             ports                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
52 |                             ports                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                                                               |
56 |                             ports                             |
   | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
   |                               |                               |
60 |             ports             |*******************************|
   |---------------+---------------+---------------+---------------|
```

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```
( 64 bytes )
```

## 4. Population Rules for RLwbtblock

**Relation Description**
Wide Band Trunk block data.

This relation is used to obtain the switching module (SM), bmap, and base_cic for a wideband trunk block. A trunk block is a group of 24 members in a wideband trunk group starting with member 0 or any multiple of 24. This relation will only be populated for wideband trunk groups (which can be integrated services digital network [ISDN] user part 7 [ISUP7] or primary rate interface [PRI] trunk groups).

**Attribute: grpnum**

**Fullname:** Wideband trunk group number

**Attribute Description** This attribute is one of the keys to this relation. It contains the number of the wideband trunk group.

**Attribute: tblock**

**Fullname:** Wideband trunk block

**Attribute Description** This attribute specifies the trunk block number and is one of the keys to this relation. A trunk block is a group of 24 members within a trunk group starting with the first member. For example, trunk group members 0 - 23 belong to trunk block zero. Members 24 - 47 belong to trunk block one. Members 48 - 71 belong to trunk block two and so on. To compute the trunk block number for a given member, divide the member number by 24 using integer division (truncate the remainder).

**Attribute: sm**

**Fullname:** Switching module

**Attribute Description** This attribute represents the switching module which contains the specified trunk group and trunk block.

**Attribute: prigrp**

**Fullname:** PRI group

**Attribute Description** This attribute contains the number of the PRI group which this wideband trunk is part of. All B-channels within a wideband PRI trunk group on this facility must be within the same PRI group. This attribute must be 0 for ISUP trunks.

**Attribute: bmap**

**Fullname:** Trunk member assignment bitmap

**Attribute Description** This attribute represents the bitmap of members that belong to the specified trunk group and trunk block. If a bit is set to zero, the corresponding member is not on the facility. If a bit is set to one, the corresponding member is on the facility. Bit 0 (the least significant bit) corresponds to channel 1 and bit 23 (the most significant bit) corresponds to channel 24.

**Attribute: base_cic**

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**Fullname:** Base channel's circuit identification code

**Attribute Description** This attribute represents the CIC of the base channel. This attribute does not apply to PRI trunk blocks and must be zero.

**Attribute: port[*]**

**Fullname:** Channel Ports

**Attribute Description** This specifies up to 24 channel ports that can be use to make wideband(for example, NxDS0) call.

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# WTESTSET

## 1. Description

This WCTX relation contains the test set data.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 10 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution type | LP |
| application | PSA |
| relation type | DBSTATIC |
| spare | 32L |

## 3. Field Layout

```
WTESTSET    relid = 2226  DBSTATIC   DBACC_HASH  DBPRAM    LP      PSA
     tn          DMDN10_BCD   (struct)  <--- key
         dn0         DMBCD        (ushort: 4)
         dn1         DMBCD        (ushort: 4)
         dn2         DMBCD        (ushort: 4)
         dn3         DMBCD        (ushort: 4)
         dn4         DMBCD        (ushort: 4)
         dn5         DMBCD        (ushort: 4)
         dn6         DMBCD        (ushort: 4)
         dn7         DMBCD        (ushort: 4)
         dn8         DMBCD        (ushort: 4)
         dn9         DMBCD        (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
 (a) state       DMTST_ST     (enum: 2)
     endtime     DMOSLTIME    (struct)
         seconds     DMSHORT      (short)
         minutes     DMSHORT      (short)
         hours       DMSHORT      (short)
         dom         DMSHORT      (short)
         month       DMSHORT      (short)
         year        DMSHORT      (short)
         doy         DMSHORT      (short)
         wkday       DMSHORT      (short)
     tsttn       DMDN10_BCD   (struct)
         dn0         DMBCD        (ushort: 4)
         dn1         DMBCD        (ushort: 4)
         dn2         DMBCD        (ushort: 4)
         dn3         DMBCD        (ushort: 4)
         dn4         DMBCD        (ushort: 4)
         dn5         DMBCD        (ushort: 4)
         dn6         DMBCD        (ushort: 4)
         dn7         DMBCD        (ushort: 4)
         dn8         DMBCD        (ushort: 4)
         dn9         DMBCD        (ushort: 4)
         digcnt      DMDIGCNT     (uchar: 4)
     tstport     DMGPORT      (struct)
         member      DMPORT       (ushort)
```

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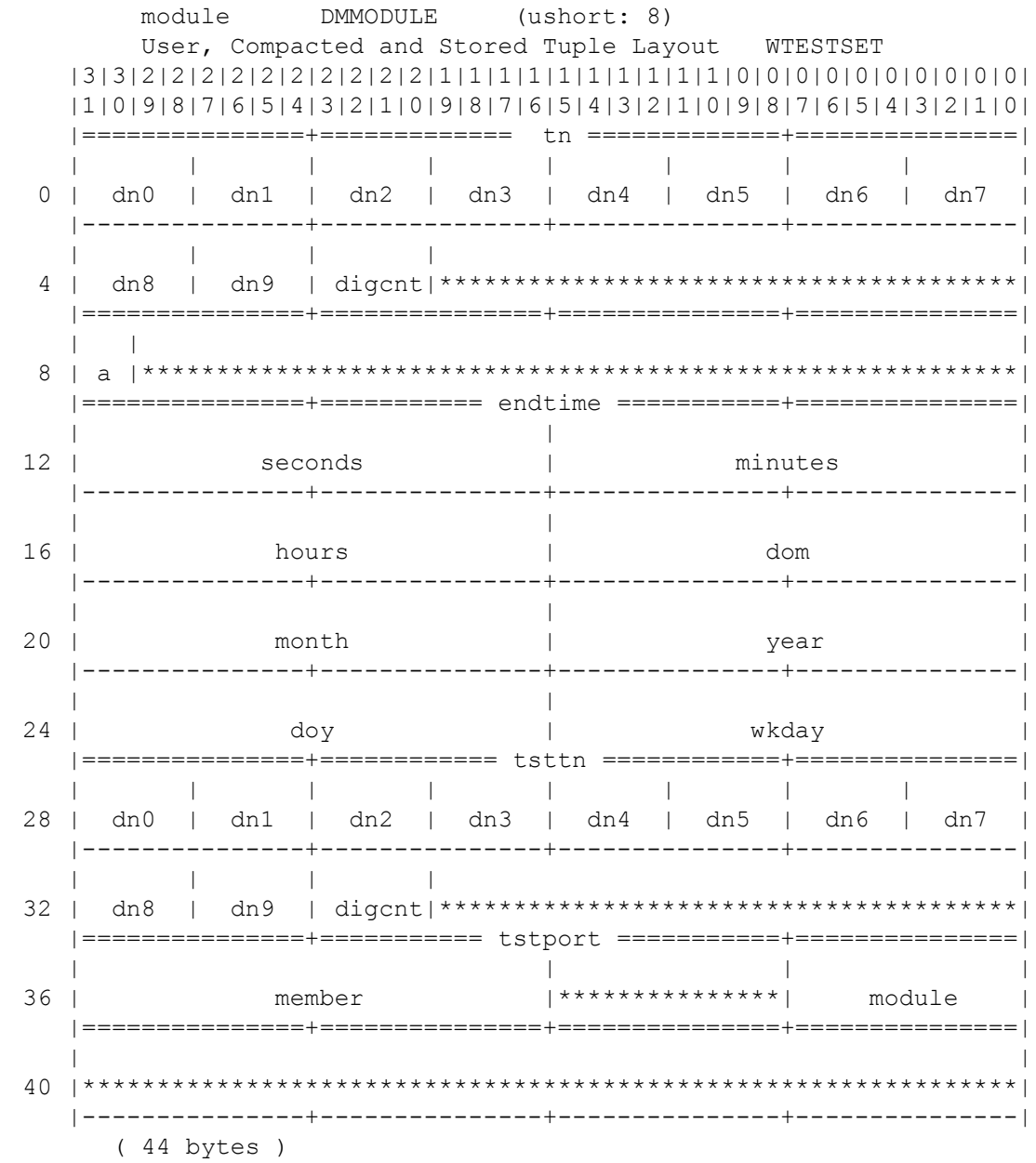


## 4. Population Rules for RLwtestset

**Relation Description**
This WCTX relation contains the wireless centrex test set data.

This relation provides the wierless test set capability on the WNC.

**Attribute: tn**

**Fullname:** Telephone Number

**Attribute Description** This is the key to the relation and is the TN of the wtestset that is defined.

**Attribute: tsttn**

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**Fullname:** The TN of the phone being tested.

**Attribute Description** The telephone number of the subscriber unit (SU) begin tested.

**Attribute: tstport**

**Fullname:** Test Port

**Attribute Description** The analog port of the phone being tested.

**Attribute: state**

**Fullname:** state.

**Attribute Description** Indicates if the wtestset is currently assigned.

**Attribute: endtime**

**Fullname:** end time

**Attribute Description** Indicates when the tsetset state should be changed.

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## 2.24 RELATIONS: X

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# XAT_PORT

## 1. Description

This relation defines on a per switching module (SM) basis, the number of X.25 packet switching on a T1 facility (XAT) port located on that SM and the port name of each XAT port.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 1 |
| access type | DBACC_LIN |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| head table size | 256 |
| data page size | 512 |
| page level | 0 |
| permutation type | un_perm |

## 3. Field Layout

```
XAT_PORT    relid = 1249  DBSTATIC   DBACC_LIN   DBPRAM    FP      NULL
     lp_type     DMLPTYPE     (enum: 7)     <--- key
     xat_cnt     DMUCHAR      (uchar)
     xat_0port   DMPORT       (ushort)
     xat_1port   DMPORT       (ushort)
     xat_2port   DMPORT       (ushort)
     xat_3port   DMPORT       (ushort)
     xat_4port   DMPORT       (ushort)
     xat_5port   DMPORT       (ushort)
     xat_6port   DMPORT       (ushort)
     xat_7port   DMPORT       (ushort)
     xat_8port   DMPORT       (ushort)
     xat_9port   DMPORT       (ushort)
     xat_10port  DMPORT       (ushort)
     xat_11port  DMPORT       (ushort)
     xat_12port  DMPORT       (ushort)
     xat_13port  DMPORT       (ushort)
     xat_14port  DMPORT       (ushort)
     xat_15port  DMPORT       (ushort)
     xat_16port  DMPORT       (ushort)
     xat_17port  DMPORT       (ushort)
     xat_18port  DMPORT       (ushort)
     xat_19port  DMPORT       (ushort)
     xat_20port  DMPORT       (ushort)
     xat_21port  DMPORT       (ushort)
     xat_22port  DMPORT       (ushort)
     xat_23port  DMPORT       (ushort)
     xat_24port  DMPORT       (ushort)
     xat_25port  DMPORT       (ushort)
     xat_26port  DMPORT       (ushort)
     xat_27port  DMPORT       (ushort)
     xat_28port  DMPORT       (ushort)
     xat_29port  DMPORT       (ushort)
     xat_30port  DMPORT       (ushort)
     xat_31port  DMPORT       (ushort)
```

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```
xat_32port  DMPORT      (ushort)
xat_33port  DMPORT      (ushort)
xat_34port  DMPORT      (ushort)
xat_35port  DMPORT      (ushort)
xat_36port  DMPORT      (ushort)
xat_37port  DMPORT      (ushort)
xat_38port  DMPORT      (ushort)
xat_39port  DMPORT      (ushort)
xat_40port  DMPORT      (ushort)
xat_41port  DMPORT      (ushort)
xat_42port  DMPORT      (ushort)
xat_43port  DMPORT      (ushort)
xat_44port  DMPORT      (ushort)
xat_45port  DMPORT      (ushort)
xat_46port  DMPORT      (ushort)
xat_47port  DMPORT      (ushort)
xat_48port  DMPORT      (ushort)
xat_49port  DMPORT      (ushort)
xat_50port  DMPORT      (ushort)
xat_51port  DMPORT      (ushort)
xat_52port  DMPORT      (ushort)
xat_53port  DMPORT      (ushort)
xat_54port  DMPORT      (ushort)
xat_55port  DMPORT      (ushort)
xat_56port  DMPORT      (ushort)
xat_57port  DMPORT      (ushort)
xat_58port  DMPORT      (ushort)
xat_59port  DMPORT      (ushort)
xat_60port  DMPORT      (ushort)
xat_61port  DMPORT      (ushort)
xat_62port  DMPORT      (ushort)
xat_63port  DMPORT      (ushort)
xat_64port  DMPORT      (ushort)
xat_65port  DMPORT      (ushort)
xat_66port  DMPORT      (ushort)
xat_67port  DMPORT      (ushort)
xat_68port  DMPORT      (ushort)
xat_69port  DMPORT      (ushort)
xat_70port  DMPORT      (ushort)
xat_71port  DMPORT      (ushort)
xat_72port  DMPORT      (ushort)
xat_73port  DMPORT      (ushort)
xat_74port  DMPORT      (ushort)
xat_75port  DMPORT      (ushort)
xat_76port  DMPORT      (ushort)
xat_77port  DMPORT      (ushort)
xat_78port  DMPORT      (ushort)
xat_79port  DMPORT      (ushort)
xat_80port  DMPORT      (ushort)
xat_81port  DMPORT      (ushort)
xat_82port  DMPORT      (ushort)
xat_83port  DMPORT      (ushort)
xat_84port  DMPORT      (ushort)
xat_85port  DMPORT      (ushort)
```

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```
xat_86port  DMPORT       (ushort)
xat_87port  DMPORT       (ushort)
xat_88port  DMPORT       (ushort)
xat_89port  DMPORT       (ushort)
xat_90port  DMPORT       (ushort)
xat_91port  DMPORT       (ushort)
xat_92port  DMPORT       (ushort)
xat_93port  DMPORT       (ushort)
xat_94port  DMPORT       (ushort)
xat_95port  DMPORT       (ushort)
xat_96port  DMPORT       (ushort)
xat_97port  DMPORT       (ushort)
xat_98port  DMPORT       (ushort)
xat_99port  DMPORT       (ushort)
xat_100port  DMPORT       (ushort)
xat_101port  DMPORT       (ushort)
xat_102port  DMPORT       (ushort)
xat_103port  DMPORT       (ushort)
xat_104port  DMPORT       (ushort)
xat_105port  DMPORT       (ushort)
xat_106port  DMPORT       (ushort)
xat_107port  DMPORT       (ushort)
xat_108port  DMPORT       (ushort)
xat_109port  DMPORT       (ushort)
xat_110port  DMPORT       (ushort)
xat_111port  DMPORT       (ushort)
xat_112port  DMPORT       (ushort)
xat_113port  DMPORT       (ushort)
xat_114port  DMPORT       (ushort)
xat_115port  DMPORT       (ushort)
xat_116port  DMPORT       (ushort)
xat_117port  DMPORT       (ushort)
xat_118port  DMPORT       (ushort)
xat_119port  DMPORT       (ushort)
xat_120port  DMPORT       (ushort)
xat_121port  DMPORT       (ushort)
xat_122port  DMPORT       (ushort)
xat_123port  DMPORT       (ushort)
xat_124port  DMPORT       (ushort)
xat_125port  DMPORT       (ushort)
xat_126port  DMPORT       (ushort)
xat_127port  DMPORT       (ushort)
xat_128port  DMPORT       (ushort)
xat_129port  DMPORT       (ushort)
xat_130port  DMPORT       (ushort)
xat_131port  DMPORT       (ushort)
xat_132port  DMPORT       (ushort)
xat_133port  DMPORT       (ushort)
xat_134port  DMPORT       (ushort)
xat_135port  DMPORT       (ushort)
xat_136port  DMPORT       (ushort)
xat_137port  DMPORT       (ushort)
xat_138port  DMPORT       (ushort)
xat_139port  DMPORT       (ushort)
```

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```
    xat_140port  DMPORT       (ushort)
    xat_141port  DMPORT       (ushort)
    xat_142port  DMPORT       (ushort)
    xat_143port  DMPORT       (ushort)
    xat_144port  DMPORT       (ushort)
    xat_145port  DMPORT       (ushort)
    xat_146port  DMPORT       (ushort)
    xat_147port  DMPORT       (ushort)
    xat_148port  DMPORT       (ushort)
    xat_149port  DMPORT       (ushort)
    xat_150port  DMPORT       (ushort)
    xat_151port  DMPORT       (ushort)
    xat_152port  DMPORT       (ushort)
    xat_153port  DMPORT       (ushort)
    xat_154port  DMPORT       (ushort)
    xat_155port  DMPORT       (ushort)
    xat_156port  DMPORT       (ushort)
    xat_157port  DMPORT       (ushort)
    xat_158port  DMPORT       (ushort)
    xat_159port  DMPORT       (ushort)
        User, Compacted and Stored Tuple Layout   XAT_PORT
   |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
   |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
   |---------------+---------------+---------------+---------------|
   |               | |               |                               |
 0 |   lp_type     |*|    xat_cnt    |           xat_0port           |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 4 |           xat_1port             |           xat_2port           |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
 8 |           xat_3port             |           xat_4port           |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
12 |           xat_5port             |           xat_6port           |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
16 |           xat_7port             |           xat_8port           |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
20 |           xat_9port             |           xat_10port          |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
24 |           xat_11port            |           xat_12port          |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
28 |           xat_13port            |           xat_14port          |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
32 |           xat_15port            |           xat_16port          |
   |---------------+---------------+---------------+---------------|
   |                                 |                               |
36 |           xat_17port            |           xat_18port          |
   |---------------+---------------+---------------+---------------|
```

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| | | | |
|---|---|---|---|
| 40 | xat_19port | xat_20port | |
| 44 | xat_21port | xat_22port | |
| 48 | xat_23port | xat_24port | |
| 52 | xat_25port | xat_26port | |
| 56 | xat_27port | xat_28port | |
| 60 | xat_29port | xat_30port | |
| 64 | xat_31port | xat_32port | |
| 68 | xat_33port | xat_34port | |
| 72 | xat_35port | xat_36port | |
| 76 | xat_37port | xat_38port | |
| 80 | xat_39port | xat_40port | |
| 84 | xat_41port | xat_42port | |
| 88 | xat_43port | xat_44port | |
| 92 | xat_45port | xat_46port | |
| 96 | xat_47port | xat_48port | |
| 100 | xat_49port | xat_50port | |
| 104 | xat_51port | xat_52port | |
| 108 | xat_53port | xat_54port | |

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| | | | |
|---|---|---|---|
| 112 | xat_55port | xat_56port | |
| 116 | xat_57port | xat_58port | |
| 120 | xat_59port | xat_60port | |
| 124 | xat_61port | xat_62port | |
| 128 | xat_63port | xat_64port | |
| 132 | xat_65port | xat_66port | |
| 136 | xat_67port | xat_68port | |
| 140 | xat_69port | xat_70port | |
| 144 | xat_71port | xat_72port | |
| 148 | xat_73port | xat_74port | |
| 152 | xat_75port | xat_76port | |
| 156 | xat_77port | xat_78port | |
| 160 | xat_79port | xat_80port | |
| 164 | xat_81port | xat_82port | |
| 168 | xat_83port | xat_84port | |
| 172 | xat_85port | xat_86port | |
| 176 | xat_87port | xat_88port | |
| 180 | xat_89port | xat_90port | |

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| | | |
|---|---|---|
| 184 | xat_91port | xat_92port |
| 188 | xat_93port | xat_94port |
| 192 | xat_95port | xat_96port |
| 196 | xat_97port | xat_98port |
| 200 | xat_99port | xat_100port |
| 204 | xat_101port | xat_102port |
| 208 | xat_103port | xat_104port |
| 212 | xat_105port | xat_106port |
| 216 | xat_107port | xat_108port |
| 220 | xat_109port | xat_110port |
| 224 | xat_111port | xat_112port |
| 228 | xat_113port | xat_114port |
| 232 | xat_115port | xat_116port |
| 236 | xat_117port | xat_118port |
| 240 | xat_119port | xat_120port |
| 244 | xat_121port | xat_122port |
| 248 | xat_123port | xat_124port |
| 252 | xat_125port | xat_126port |

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```
    |                               |                               |
256 |          xat_127port          |          xat_128port          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
260 |          xat_129port          |          xat_130port          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
264 |          xat_131port          |          xat_132port          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
268 |          xat_133port          |          xat_134port          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
272 |          xat_135port          |          xat_136port          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
276 |          xat_137port          |          xat_138port          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
280 |          xat_139port          |          xat_140port          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
284 |          xat_141port          |          xat_142port          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
288 |          xat_143port          |          xat_144port          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
292 |          xat_145port          |          xat_146port          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
296 |          xat_147port          |          xat_148port          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
300 |          xat_149port          |          xat_150port          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
304 |          xat_151port          |          xat_152port          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
308 |          xat_153port          |          xat_154port          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
312 |          xat_155port          |          xat_156port          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
316 |          xat_157port          |          xat_158port          |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
320 |          xat_159port          |*******************************|
    |---------------+---------------+---------------+---------------|
       ( 324 bytes )
domain alXAT_PORT struct  (3 sub-attributes)
         lp_type     .0fake       (enum)
```

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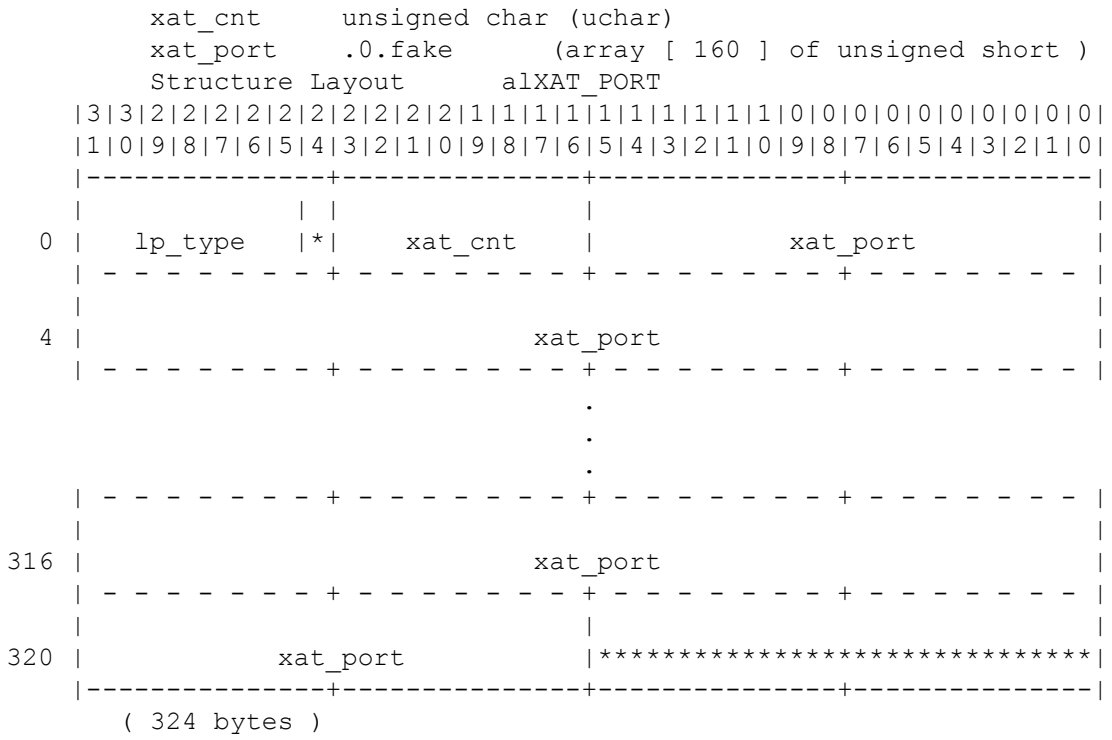


## 4. Population Rules for RLxat_port

**Relation Description**
X.25 Packet Switching on a T1 Facility Port name.

This relation defines on a per Switching Module basis, the number of X.25 packet switching on a T1 facility (XAT) port located on that SM and the port name of each XAT port.

**Attribute: lp_type**

**Fullname:** Logical Port Type.

**Attribute Description** Logical Port type associated with XAT ports.

**Attribute: xat_cnt**

**Fullname:** X.25 Packet Switching on a T1 Facility Port Count.

**Attribute Description** Number of XAT ports located on the SM containing this relation.

When an XAT port is assigned to this SM, then this attribute must be incremented and the port name populated in the xat_port attribute indicated by the xat_cnt.

When an XAT port is unassigned from this SM, then this attribute must be decremented and the xat_port attribute containing the port name being unassigned must be located and overwritten with the port name pointed at by the xat_cnt + 1 attribute (last port name that was populated).

**Attribute: xat[*]port**

**Fullname:** XAT port name

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**Attribute Description** This attribute indicates that if the attribute is populated, then there are at least the number of XAT ports indicated by the number in the attribute name

**Defines:** "db/DMcircuit.h", "db/DMport.h"

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# XCVR_CKT

## 1. Description

Tone transceiver circuit names. This relation is used by Measurements scanning procedures.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 768 |
| expected number of tuples | 12 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | AUTO |
| density | 9 |

## 3. Field Layout

```
XCVR_CKT    relid = 757   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     circuit     DMCIRCUIT    (ushort)  <--- key, not stored
     dummy       DMDUMMY      (ushort: 8)
         User and Compacted Tuple Layout   XCVR_CKT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  0 |             circuit           |*******************************|
    |---------------+---------------+---------------+---------------|
    |                 |                                             |
  4 |      dummy      |*********************************************|
    |---------------+---------------+---------------+---------------|
       ( 8 bytes )
     dummy       DMDUMMY      (ushort: 8)
           Stored Tuple Layout     XCVR_CKT
    |3|3|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                 |                                             |
  0 |      dummy      |*********************************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLxcvr_ckt

**Relation Description**
Tone transceiver circuit name.

This Population Rule is used by Measurement scanning procedures. The memory engineering of this relation makes use of the fact that the upper 2 bits of the key attribute (circuit) are not used. (For tone transceivers, the upper 3 bits of the circuit name indicate the Control Interface, and currently the only valid values for this are 0 and 1.) If this should ever change, this relation should be re-engineered.

**Attribute: circuit**

**Fullname:** circuit name

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**Attribute Description** These circuits can only be provided with DSU2-LDSUF. A maximum of 30 tuples are built for the tone transceivers per LDSUF service group. The circuit names here correspond to those populated in RLcktdata for type=PCT_XCVR.

**Attribute: dummy**

**Fullname:** dummy field
**Attribute Description** Dummy field uses 0.

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# XDCTUMTB

## 1. Description

This relation specifies the Metallic Test Busses (MTBs) that are associated with, or connected to, a given DCTUPORT. circuit.

When a PGTC port is wired on the MTB between the DCTU and the MMSU, the 'lodist_pt' field contains the port name of the distribute point which is connected to the HIGH valued resistors controlling the low sleeve current toward the PGTC. Otherwise the 'lodist_pt' is set to GLNULPORT.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 128 |
| expected tuples in relaton | 64 |
| access type | DBACC_DHSH |
| memory type | DBPRAM |
| distribution | LR |
| relation type | DBSTATIC |
| density | 60 |
| permutation type | un_perm |

## 3. Field Layout

```
XDCTUMTB    relid = 3188  DBSTATIC   DBACC_DHSH  DBPRAM    LR      NULL


     dctuid      DMGCIRCUIT   (struct)  <--- key
         circuit     DMCIRCUIT    (ushort)
         module      DMMODULE     (ushort: 8)
     mtb_idx0    DMCKTINDX    (ushort)
     mtb_idx1    DMCKTINDX    (ushort)
     mtb_idx2    DMCKTINDX    (ushort)
     mtb_idx3    DMCKTINDX    (ushort)
     lodist_pt   DMPORT       (ushort)
 (a) msu_no      DMUNS1       (ushort: 1)
     msu_sm      DMMODULE     (ushort: 8)
     mtb0        DMCIRCUIT    (ushort)
     mtb1        DMCIRCUIT    (ushort)
     mtb2        DMCIRCUIT    (ushort)
     mtb3        DMCIRCUIT    (ushort)
 (b) msu_sg      DMUNS1       (ushort: 1)
     msu_utype   DMUNITTYPE   (enum: 7)
         User, Compacted and Stored Tuple Layout   XDCTUMTB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+===========  dctuid ===========+===============|
    |                               |               |               |
  0 |             circuit           |***************|     module    |
    |===============+===============+===============+===============|
    |                               |                               |
  4 |             mtb_idx0          |            mtb_idx1           |
    |---------------+---------------+---------------+---------------|
    |                               |                               |
  8 |             mtb_idx2          |            mtb_idx3           |
    |---------------+---------------+---------------+---------------|
    |                               | |               |             |
```

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```
 12 |           lodist_pt           |a|     msu_sm    |*************|
    |-------------------------------+-------------------------------|
    |                               |                               |
 16 |              mtb0             |              mtb1             |
    |-------------------------------+-------------------------------|
    |                               |                               |
 20 |              mtb2             |              mtb3             |
    |-------------------------------+-------------------------------|
    | |             |                                               |
 24 |b|  msu_utype  |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 28 bytes )


domain alXDCTUMTB struct  (8 sub-attributes)
         dctuid      .0fake       (struct)
             circuit     unsigned short (ushort)
             module      .0.fake      (ushort)
         mtb_idx     .4.fake      (array [ 4 ] of unsigned short )
         lodist_pt   unsigned short (ushort)
 (a)     msu_no      .5.fake      (ushort: 1)
         msu_sm      .6.fake      (ushort)
         mtb         .7.fake      (array [ 4 ] of unsigned short )
 (b)     msu_sg      .8.fake      (ushort: 1)
         msu_utype   .1fake       (enum)
                     Structure Layout    alXDCTUMTB
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |===============+===========  dctuid ===========+===============|
    |                               |               |               |
  0 |            circuit            |***************|     module    |
    |===============+===============+===============+===============|
    |                                                               |
  4 |                            mtb_idx                            |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
  8 |                            mtb_idx                            |
    |---------------+---------------+---------------+---------------|
    |                               | |               |             |
 12 |           lodist_pt           |a|     msu_sm    |*************|
    |-------------------------------+-------------------------------|
    |                                                               |
 16 |                              mtb                              |
    | - - - - - - - + - - - - - - - + - - - - - - - + - - - - - - - |
    |                                                               |
 20 |                              mtb                              |
    |---------------+---------------+---------------+---------------|
    | |             |                                               |
 24 |b|  msu_utype  |***********************************************|
    |---------------+---------------+---------------+---------------|
       ( 28 bytes )
```

## 4. Population rules for RLxdctumtb

**Relation Description**

Connection of specific MTB(s) associated with DCTU

Specifies the Metallic Test Busses (MTBs) that are associated with (connected to) a given DCTU port circuit.

"This relation specifies the Directly Connected Test Unit (DCTU) port circuit (DCTUPORT) that is physically connected to a Metallic Test Bus (MTB) in a Metallic Service Unit (MSU). Up to four MTBs from an MSU service group, one per metallic shelf, can be connected to a single DCTUPORT circuit. The MTBs connect to the DCTU base pack, SN423, which then uses the EAN (equal access network) to connect to the PMU packs, SM248. MTBs are physical tip and ring pairs that are part of the Metallic Access (MA) circuit pack, TN138, in a Modular MSU (MMSU). Besides DCTUPORTs, MTBs connect to analog line units, analog trunk units, Pair Gain Test Controller circuits, and Test Bus Controller Units.

This data is used by Terminal Maintenance operational software when making a DCTU metallic connection. This relation resides currently in the AM/CMP. The DCTU and the MSU(s) that it connects to may or may not be in the same SM. Additional information pertaining to DCTUPORTs or MTBs may be found in population rules for RLcktdata.

In general, the DCTUPORTs should be distributed across MSU service groups in the office. There are no other engineering rules in this regard and no internal cross checks required to support this requirement.

DCTUPORTs must be grown in groups of 4, which correspond to the number of PORTs per PMU.

The maximum tuple size for this relation (currently 64 tuples) should be enough to handle two fully equipped DCTUs in a 5ESS(R)-2000 switch HOST processing entity of up to 120,000 lines (24 DCTUPORTs) and up to ten (10) RSMs (ORMs or TRMs) each connecting a minimally equipped DCTU (4 DCTUPORTs). More DCTUs in RSMs (ORMs or TRMs) can be supported either by increasing maximum tuple size or decreasing the number of DCTUPORTs supporting the HOST 5ESS(R)-2000 switch. Since a 5ESS(R)-2000 switch can support 192 SMs with one DCTU in each SM, the theoretical maximum number of tuples could be:

( 12 DCTUPORTs/DCTU ) x (1 DCTU/SM) x (192 SM/office)

= 2,304 DCTUPORTs/office

OPTIONAL EQUIPMENT:
---

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When a DCTU is used to test a line connected to a Universal-SLC(R) system, a Pair Gain Test Controller (PGTC) is required to achieve metallic bypass.

There are 3 configurations for the PGTC:

1. The PGTC is direct wired on a specific No Test Trunk (located between the testing center and the NTT). The PGTC is controlled via sleeve lead control provided from the testing center over the No Test Trunk sleeve and ground leads.

   No ODD is required to support this configuration and the switch software is not even aware of the existence and use of the PGTC in this manner. It is described here for completeness in documenting PGTC configurations.

2. The PGTC is connected to a pair of MTBs (the first MTB provides the connection toward the DCTU, the second toward the line under test). The PGTC is switched into the connection only when required and is a shared resource used whenever a DCTU connects to a Universal-SLC(R) system.

   Distribute points under 5ESS(R)-2000 switch software control, regulate sleeve lead current to control the PGTC (~12 ma for low current and ~28 ma for high). These distribute points must be equipped sequentially on the same distribute pack (which must be in the same SM as the Metallic Access pack which terminates the MTB of the PGTC).

   Since the PGTC is not directly associated with any specific RLDCTUMTB4 tuple, the 'lodist_pt' field is set to GLNULPORT in this relation's tuple. The 'lodist_pt' attribute of the 'RLPGTC' tuple which represents the PGTC connected to the MSU via MTBs dedicated only to that PGTC. Again, this description is only included for completeness of configurations.

3. The PGTC is direct wired to the DCTU MTB between the DCTU and the MMSU. The PGTC is only activated for DCTU connections to Universal-SLC(R) system lines.

   Distribute points control the PGTC and have the same assignment restrictions (sequential points and location relative to MTB) as configuration 2 above.

   In this configuration, the PGTC is associated with one (and only one) DCTUPORT. Therefore there is no need for an RLPGTC tuple. Instead, the RLDCTUMTB4 tuple for that DCTUPORT will contain the port name of the low distribute point in the attribute 'lodist_pt'. The value of the RLDCTUMTB4 'lodist_pt' attribute should never be GLNULPORT in this case. The high distribute point port name is derived from the low distribute

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point port name using the following algorithm:

Locate the RLFC_PORTTYP tuple for the low distribute point port. Increment the value of the 'port_indx' attribute of that tuple to give the port index of the 'cktname' attribute from RLFC_PORTTYP (which is the circuit name of the DIST pack) and the calculated port index of the high distribute point. The 'port' attribute of the RLCKT_PORT relation is the port name of the high distribute point.

All 3 configurations can exist in the same office simultaneously.

**Attribute:**
dctuid
**Fullname:**
global circuit name of DCTUPORT circuit
**Attribute Description:**
global circuit name of DCTUPORT circuit.

**Attribute:**
dctuid.circuit
**Fullname:**
DCTUPORT circuit name
**Attribute Description:**
DCTUPORT circuit name.

**Attribute:**
dctuid.module
**Fullname:**
SM where DCTUPORT circuit is connected
**Attribute Description:**
SM where DCTUPORT circuit is connected

**Attribute:**
mtb[*]
**Fullname:**
global circuit name(s) of the MSU MTB's connected to the DCTUPORT
**Attribute Description:**
The set of MTB(s) that connects to the DCTUPORT.
All MTB's which connect to a given DCTUPORT are from a single MSU SG.

**Attribute:**
mtb_idx[*]
**Fullname:**
circuit index/indices of the MSU MTB's connected to the DCTUPORT
**Attribute Description:**
Circuit index of the MTB(s) connected to the DCTUPORT

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**Attribute:**
lodist_pt
**Fullname:**
MSU distribute point wired to HIGH resistor value for PGTC
**Attribute Description:**
The Distribute (DIST) pack that terminates this distribute point must exist in the same MMSU as the MA pack that terminates the DCTU MTB. PC software will construct the portname for the associated 'hidist_pt' based on the requirement that the distribute points are assigned sequentially and are on the same DIST pack.

The high distribute port name is obtained by incrementing the circuit index for 'lodist_pt' found in RLfc_porttyp and then reading RLckt_port using the incremented port index and the 'lodist_pt' circuit name found in RLfc_porttyp.

This field will have an entry in rlFC_PORTTYP with 'servclass' set to TMDSTPGTC.

If there is no PGTC wired to the DCTU MTB, then the value for 'lodist_pt' must be GLNULPORT.

**Attribute:**
msu_sm
**Fullname:**
the SM where the MTB is located.
**Attribute Description:**
the sm where the MTB is located.
All MTB's which connect to a given DCTUPORT are from a single MSU SG.

**Attribute:**
msu_no
**Fullname:**
Unit number of MTB's MSU.
**Attribute Description:**
Unit number of the MSU that has the MTB(s) connected to the DCTUPORT.
All MTB's which connect to a given DCTUPORT are from a single MSU SG.

**Attribute:**
msu_utype
**Fullname:**
Unit type of the MTB's MSU
**Attribute Description:**
Unit type of the MSU that has the MTB's connected to the DCTUPORT.
All MTB's which connect to a given DCTUPORT are from a single MSU SG.

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**Attribute:**
msu_sg
**Fullname:**
Service group of the MTB's MSU
**Attribute Description:**
Service group of the MSU that has the MTB's connected to the DCTUPORT. All MTB's which connect to a given DCTUPORT are from a single MSU SG.

**Defines:**
"db/DMport.h"

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# XNDLDSL

## 1. Description

Inverse relation to RLDLDSL. This relation maps the external name of an ISDN "data link" digital subscriber line (DSL) to the associated global port name and service class.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 378 |
| expected number of tuples | 6 |
| density | 25 |
| access type | DBACC_HASH |
| memory type | DBPRAM |
| distribution | LP |
| application | ACDQ |
| relation type | DBSTATIC |

## 3. Field Layout

```
XNDLDSL     relid = 750   DBSTATIC   DBACC_HASH  DBPRAM    LP      ACDQ
     xnamrl      DMXNAMRL     (ushort: 13)     <--- key
     xnamid      DMXNAMID     (ushort: 11)     <--- key
     servclass   DMSERVCLASS  (enum)     <--- key
     gdport      DMGPORT      (struct)
         member      DMPORT       (ushort)
         module      DMMODULE     (ushort: 8)
         User, Compacted and Stored Tuple Layout    XNDLDSL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                           |     |                       |         |
  0 |          xnamrl           |*****|        xnamid         |*********|
    |---------------+---------------+---------------+---------------|
    |               |                                                 |
  4 |   servclass   |*************************************************|
    |===============+===========  gdport ===========+===============|
    |                               |                 |               |
  8 |             member            |***************|     module    |
    |===============+===============+===============+===============|
       ( 12 bytes )
```

## 4. Population Rules for RLxndldsl

**Relation Description**
external name data link ISDN digital subscriber lines.

This relation is needed in a Logical Processor only to provide an efficient mapping from 'data link' DSL external name and servclass to global port.

See RLdldsl relation for more information.

**Attribute: xnamid**

**Fullname:** data link external name ID

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**Attribute Description** ID portion of the data link DSL external name. See RLdldsl.xnamid for more information.

**Attribute: xnamrl**

**Fullname:** external name Relative link

**Attribute Description** Relative link portion of the data link DSL. See RLdldsl.xnamrl for more information

**Attribute: servclass**

**Fullname:** Service class

**Attribute Description** Service class of the data link DSL. See RLdldsl.servclass for more information.

**Attribute: gdport**

**Fullname:** gdport

**Attribute Description** Global data link DSL PORT name See RLdldsl.gdport for more info.

**Attribute: gdport.member**

**Fullname:** port member for gdport

**Attribute Description** See gdport.

**Attribute: gdport.module**

**Fullname:** module for gdport

**Attribute Description** See gdport.

**Defines:** "db/DMport.h"

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# XNDSL

## 1. Description

Inverse relation to RLDSLXN. This relation maps the external name of an ISDN "data link" digital subscriber line (DSL) to the associated global port name and service class.

## 2. Data Dictionary Values

| | |
|---|---|
| maximum tuples in relation | 30 |
| expected tuples in relation | 2 |
| access type | DBACC_CIND |
| memory type | DBPRAM |
| distribution | FP |
| relation type | DBSTATIC |
| ks key store | AUTO |
| density | 100 |

## 3. Field Layout

```
XNDSL       relid = 847   DBSTATIC   DBACC_CIND  DBPRAM    FP      NULL
     xnamid      DMXNAMID     (ushort: 11)  <--- key, not stored
     xnamrl      DMXNAMRL     (ushort: 13)  <--- key, not stored
     servclass   DMSERVCLASS  (enum)  <--- key, not stored
     dport       DMPORT       (ushort)
         User and Compacted Tuple Layout  XNDSL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                       |         |                           |     |
  0 |         xnamid        |*********|           xnamrl          |*****|
    |---------------+---------------+---------------+---------------|
    |                 |                                             |
  4 |   servclass     |*********************************************|
    |---------------+---------------+---------------+---------------|
    |                                 |                             |
  8 |              dport              |*****************************|
    |---------------+---------------+---------------+---------------|
       ( 12 bytes )
     dport       DMPORT       (ushort)
           Stored Tuple Layout    XNDSL
    |3|3|2|2|2|2|2|2|2|2|2|2|1|1|1|1|1|1|1|1|1|1|0|0|0|0|0|0|0|0|0|0|
    |1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|9|8|7|6|5|4|3|2|1|0|
    |---------------+---------------+---------------+---------------|
    |                                 |                             |
  0 |              dport              |*****************************|
    |---------------+---------------+---------------+---------------|
       ( 2 bytes )
```

## 4. Population Rules for RLxndsl

**Relation Description**
'Data link' ISDN Digital Subscriber Link.

Relation contains information about 'data link' ISDN digital subscriber lines (DSL)s. The switch personnel are informed of the data link DSL status through MCC displays and alarmed output messages. These features are

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available only for data link DSLs.

Each tuple in this relation represents a 'data link' ISDN DSL. The switch personnel are alerted to problems involving data link DSLs by means of MCC display pages and alarmed tty output messages.

In Generic 5E4, data link DSLs requiring internal to external name conversion are DSLs to application processors (AP)s. The ISDN BRCS AP communication package uses this relation to define the relative DSL data link number for each AP on a specific SM.

The maximum number of data links per AP is sixteen (16) when the AP is on a SM. The maximum number of data links per AP is thirty (30) when the AP is on a SM-2000.

The xnamid will be APn (such as, AP5) while the xnamrl is the relative link (such as, AP5-3 is AP5 relative link 3).

This relation is to be SM Partitioned. Each SM will have only the RLXNDSL tuples for data the link DSLs that it terminates.

An inverse relation for RLXNDSL, named RLDSLXN, also exists."

**Attribute: xnamid**

**Fullname:** ID portion of the data link DSL external name.

**Attribute Description** Data link DSL's are assigned external names in lieu of directory numbers. The external name consists of two parts - an AP number (xnamid) and a relative link (xnamrl) number. AP's hosted by ISDN SM's will have xnamid values between 4 and 99.

For every tuple with servclass PS_APDSL, a corresponding tuple must exist in RLcmapdata, where RLcmapdata.apindex equals xnamid. For a given AP, this relation may have up to 16 tuples (that is, 16 xnamrl) with servclass equal to PS_APDSL and the AP is on an SM. For APs on SM-2000s, this relation may have up to 30 tuples (that is, 30 xnamrl).

The maximum number of tuples per SM with servclass PS_APDSL is sixteen (16). The maximum number of tuples per SM-2000 with servclass PS_APDSL is thirty (30).

**Attribute: xnamrl**

**Fullname:** Relative Link portion of the data link DSL.

**Attribute Description** For an AP with data links (servclass = PS_APDSL), xnamrl can have values between 1 and 16 for SMs and between 1 and 30 for SM-2000s. The number of tuples in this relation will be from 1 to 16 on SMs and 1 to 30 on SM-2000s. The actual number depends upon the number of data links to an AP.

The xnamrl attribute corresponds to a bit position in RLcmapdata.link_map. Thus, if RLcmapdata.apindex = xnamid = 5 and RLcmapdata.link_map has bits 2 and 4 set, this relation will have two tuples: one for AP5-2 and one for AP5-4 (that is, xnamid=5, xnamrl=2 and xnamid=5, xnamrl=4).

**Attribute: servclass**

**Fullname:** Service class of the data link DSL.

**Attribute Description** AP DSL data links will have a servclass of PS_APDSL.

An SM can have from 0 to 16 RLdslxn tuples with servclass PS_APDSL.

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Dependencies (taken, as is, from RLxndsl.P)--RLfc_porttyp: Each port in RLdslxn must also be present in RLfc_porttyp of the SM hosting terminating the data link DSL. The DSL port must be a D-channel port with servclass set to PS_APDSL.

**Attribute: dport**

**Fullname:** D-channel port name of the data link DSL as defined in RLequipdsl and RLdslequip.

**Attribute Description** A tuple must also exist in RLfc_porttyp with a value of dport and servclass of PS_APDSL.

The maximum number of tuples with servclass PS_APDSL is 16 per SM.
The maximum number of tuples with servclass PS_APDSL is 30 per SM-2000.

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# 3. GLOBAL PARAMETERS

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## 3.1 GLOBAL PARAMETERS

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# DBacc_head

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBacc_head | LPFP | DMblockid |

### 1.1 Fullname:

Global Office Parameter DBacc_head

### 1.2 Description:

This parameter contains the head table blockid of the relation RLDBODDACC on AM, CMP and SMs.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about DBacc_head.values: */

        /* no check */ ;
```

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# DBactblks

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBactblks | LPFP | DMblockid |

### 1.1 DBactblk

Global Office Parameter DBactblks

### 1.2 Description

DBactblks supports memory engineering for ODD. The actual size of the ODD are in units of 256-byte blocks.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2752

***AM Initial Value:*** 8000

***CMP Initial Value:*** 8000

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about DBactblks.values: */

        /* no check */ ;
```

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# DBbeg_prblk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBbeg_prblk | LPFP | DMblockid |

### 1.1 DBbeg_prblk

Global Office Parameter DBbeg_prblk

### 1.2 Description

First block of the Protected ODD, whose value equals that of the global parameter DBunblocks (except during an Unprotected SM ODD growth). DBbeg_prblk is initialized to the #define ODDUNBLOCKS (just as DBunblocks is). DBbeg_prblk is only used in the SM and CMP. No population rules are available.

Supported by: DBM

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ODDUNBLOCKS

***AM Initial Value:*** ODDUNBLOCKS

***CMP Initial Value:*** ODDUNBLOCKS

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about DBbeg_prblk.values: */
        /* no check */ ;
```

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# DBdactblks

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBdactblks | LP | DMblockid |

### 1.1 DBdactblks

Global Office Parameter DBdactblks

### 1.2 Description:

Gives the actual size of the disk resident ODD in units of 2K byte blocks. Initially set by DBGEN when an ODD is written out and incremented by the DBM as additional blocks are allocated.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ODDDISKBLKS

***CMP Initial Value:*** ODDDISKBLKS

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 4496;
/* Any change to this default value, will be impacting the #define
for ODDDISKBLKS in uhdr/db/DBodddefs.G file.
*/
```

***Distribution Rules:***

```
        /* standard - LP ( AM ) */
        ;
```

***Checks:***

```
/* RULE about DBdactblks.values: */
        /* no check */ ;
```

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# DBdbufblks

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBdbufblks | LP | DMblockid |

### 1.1 DBdbufblks

Global Office Parameter DBdbufblks

### 1.2 Description:

Number of 2K-byte blocks allocated to buffer disk resident ODD pages. This parameter is constant for the generic - set to 128 for 5E2(1).

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ODDDBUFBLKS

***CMP Initial Value:*** ODDDBUFBLKS

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard - LP ( AM ) */
        ;
```

***Checks:***

```
/* RULE about DBdbufblks.values: */
        /* no check */ ;
```

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# DBdiskblks

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBdiskblks | LP | DMblockid |

### 1.1 DBdiskblks

Global Office Parameter DBdiskblks

### 1.2 Description:

Gives maximum size disk-resident ODD the generic can support. This parameter is stated in units of 2K blocks. It should therefore have a value 1/2 of the maximum value stated for Gldsk_sze. For 5E9(2), the value is 4496 which indicates the maximum 5E9(2) disk-resident ODD supported is 8992K.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ODDDISKBLKS

***CMP Initial Value:*** ODDDISKBLKS

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 4496;
/* Any change to this default value, will be impacting the #define
for ODDDISKBLKS in uhdr/db/DBodddefs.G file.
*/
```

***Distribution Rules:***

```
        /* standard - LP ( AM ) */
        ;
```

***Checks:***

```
/* RULE about DBdiskblks.values: */
        /* no check */ ;
```

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# DBdoddindx

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBdoddindx | LP | DMshort |

### 1.1 DBdoddindx

Global Office Parameter DBdoddindx

### 1.2 Description:

Gives the percentage full disk ODD that will trigger on ODD availability report to be generated. Initially set to 80 by DBGEN, internally incremented by DBM as disk ODD fills past the current value, up to 100.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 80

***CMP Initial Value:*** 80

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:*** None

```
        ;
```

***Checks:***

```
/* RULE about DBdoddindx.values: */
        /* no check */ ;
```

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# DBdphysblks

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBdphysblks | LP | DMblockid |

### 1.1 DBdphysblk

Global Office Parameter DBdphysblks

### 1.2 Description:

Gives number of blocks allocated for the disk (1 block = 2K bytes). Initially this parameter will be constant for the generic - set to 2560 for 5E2(1), but may later be used to engineer ODD disk size on per office basis.

There is a DBM dependency requiring that DBdphysblks be aligned on a 16K boundary. The DBGEN tools ensure that this requirement is met.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ODDDISKBLKS

***CMP Initial Value:*** ODDDISKBLKS

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard - LP ( AM ) */
        ;
```

***Checks:***

```
/* RULE about DBdphysblks.values: */
        /* no check */ ;
```

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# DBgen_sze

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBgen_sze | LPFP | DMshort |

### 1.1 DBgen_sze

Global Office Parameter DBgen_sze

### 1.2 Description

Needed for memory engineering for the ODD. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 3744

***AM Initial Value:*** 10240

***CMP Initial Value:*** 10240

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about DBgen_sze.values: */
        /* no check */ ;
```

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# DBgkrwait

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBgkrwait | LPFP | DMlong |

### 1.1 DBgkrwait

Global Office Parameter DBgkrwait

### 1.2 Description

This parameter's value is the interval, in minutes, between executions of the generated key collection and compression routine.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 10

***CMP Initial Value:*** 10

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = 10;

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about DBgkrwait.values: */
        /* no check */ ;
```

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# DBgktstore

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBgktstore | LRFP | DMblockid |

### 1.1 DBgktstore

Global Office Parameter DBgktstore

### 1.2 Description

This parameter's value is a pointer to a seized data block of ODD which is known as DB Bucket Reorg Temp GK Store.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about DBgktstore.values: */
        /* no check */ ;
```

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# DBmavnrodd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBmavnrodd | FP | DMshort |

### 1.1 DBmavnrodd

Global Office Parameter DBmavnrodd

### 1.2 Description

Minimum percent of available non-redundant ODD space that must exist before a warning is issued. This value is ODBE updateable. The default is 20 percent of available non-redundant ODD space. When this limit is reached a warning will be issued. Changing this value will set the lower bound at which a warning of limited non-redundant ODD space will be output to the craft. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 20;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about DBmavnrodd.values: */
        /* no check */ ;
```

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# DBmavsodd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBmavsodd | LPFP | DMshort |

### 1.1 DBmavsodd

Global Office Parameter DBmavsodd

### 1.2 Description

Minimum percent of available Protected ODD space that must exist before a warning is issued. This value is ODBE updateable. The default is 20 percent of available Protected ODD space. When this limit is reached a warning will be issued. Changing this value will set the lower bound at which a warning of limited Protected ODD space will be output to the craft. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** 20

***CMP Initial Value:*** 20

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 20;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about DBmavsodd.values: */
        /* no check */ ;
```

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# DBmavuodd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBmavuodd | LPFP | DMshort |

### 1.1 DBmavuodd

Global Office Parameter DBmavuodd

### 1.2 Description

Minimum percent of available Unprotected ODD space that must exist before a warning is issued. This value is ODBE updateable. The default is 20 percent of available Unprotected ODD space. When this limit is reached a warning will be issued. Changing this value will set the lower bound at which a warning of limited Unprotected ODD space will be output to the craft. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** 20

***CMP Initial Value:*** 20

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 20;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about DBmavuodd.values: */
        /* no check */ ;
```

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# DBoddindx

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBoddindx | LPFP | DMshort |

### 1.1 DBoddindx

Global Office Parameter DBoddindx

### 1.2 Description

Used to determine if a warning report of the ODD availability should be sent to the MCC. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 80

***AM Initial Value:*** 80

***CMP Initial Value:*** 80

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
    /* standard - LP ( AM ) */
    ;
```

***Checks:***

```
/* RULE about DBoddindx.values: */
        /* no check */ ;
```

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# DBoldrfblk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBoldrfblk | FR | DMblockid |

### 1.1 Fullname:

Global Office Parameter DBoldrfblk

### 1.2 Description:

NOTE - THIS IS A REDUNDANT GLOBAL PARAMETER!!

This global parameter keeps track of the old value of global parameter DBrfblk during the RODD bitmap shift of a NRODD growth. This will always be populated by DBgen to zero.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by either RC or ODA.

***Retrofit Rules:*** This value is reset to the default during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about DBoldrfblk.values: */
        /* no check */ ;
```

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# DBphysblks

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBphysblks | LPFP | DMblockid |

### 1.1 DBphysblks

Global Office Parameter DBphysblks

### 1.2 Description

Supports memory engineering for ODD. Represents amount of memory allocated to the ODD in units of 256-byte blocks. For SM, it represents unprotected ODD and non-redundant ODD in units of 256 byte blocks.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2752

***AM Initial Value:*** 8000

***CMP Initial Value:*** 8000

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about DBphysblks.values: */
        /* no check */ ;
```

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# DBprblocks

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBprblocks | LPFP | DMblockid |

### 1.1 DBprblocks

Global Office Parameter DBprblocks

### 1.2 Description

Number of 256-byte protected pages. No population rules available.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ODDPRBLOCKS

***AM Initial Value:*** ODDPRBLOCKS

***CMP Initial Value:*** ODDPRBLOCKS

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about DBprblocks.values: */
        /* no check */ ;
```

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# DBprend

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBprend | LPFP | DMshort |

### 1.1 DBprend

Global Office Parameter DBprend

### 1.2 Description

End of protected data base. This parameter should not be populated. It is generic dependent.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
 pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about DBprend.values: */
              /* no check */ ;
```

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# DBracc_head

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBracc_head | FR | DMblockid |

### 1.1 Fullname:

Global Office Parameter DBracc_head

### 1.2 Description:

This parameter contains the head table blockid of the relation RLDBRODDACC on the SMs.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about DBracc_head.values: */
        /* no check */ ;
```

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# DBractblks

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBractblks | FR | DMblockid |

### 1.1 DBractblks

Global Office Parameter DBractblks

### 1.2 Description

Contains the size of the redundant ODD in 256-byte blocks. Populated by DBgen.

Supported by: DBM

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2784

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about DBractblks.values: */
        /* no check */ ;
```

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# DBrconvbid

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBrconvbid | FR | DMblockid |

### 1.1 DBrconvbid

Global Office Parameter DBrconvbid

### 1.2 Description:

This parameter will initially be set to the maximum number of blocks that are available (that is, SMMAXBLKID). It is set by the Bitmap Salvage Technique (BST) when it is necessary to reclaim redundant ODD (RODD) blocks. During this time, its value is checked by DBb_retrieve() when retrieving blocks.

***NOTE:*** THIS IS A REDUNDANT GLOBAL PARAMETER!!

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 262015

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 65407;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about DBrconvbid.values: */
        /* no check */ ;
```

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# DBrcspace

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBrcspace | LP | DMshort |

### 1.1 DBrcspace

Global Office Parameter DBrcspace

### 1.2 Description:

Needed for memory engineering for the ODD. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 200

***CMP Initial Value:*** 200

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard - LP ( AM ) */
        ;
```

***Checks:***

```
/* RULE about DBrcspace.values: */
        /* no check */ ;
```

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# DBrfblk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBrfblk | FR | DMblockid |

### 1.1 DBrfblk

Global Office Parameter DBrfblk

### 1.2 Description

***NOTE:*** This is a redundant global parameter!

Defines the first blockid used for redundant data. This will always be populated by DBgen to zero. It will increase as non-redundant ODD growths occur because growing non-redundant ODD shifts the entire redundant ODD.

Supported by: DBM

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about DBrfblk.values: */
              /* no check */ ;
```

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# DBroddindx

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBroddindx | FR | DMshort |

### 1.1 DBroddindx

Global Office Parameter DBroddindx

### 1.2 Description

***NOTE:*** This is a redundant global parameter!

Used to determine if a warning report of the redundant ODD availability should be sent to the MCC.

Supported by: DBM

***Type:*** DBSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 80

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 80;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about DBroddindx.values: */
        /* no check */ ;
```

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# DBrphysblks

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBrphysblks | FR | DMblockid |

### 1.1 DBrphysblks

Global Office Parameter DBrphysblks

### 1.2 Description

***NOTE:*** This is a redundant global parameter!

Contains the amount of memory allocated to the redundant ODD in units of 256-byte blocks. Populated by DBgen.

Supported by: DBM

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2784

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 2784;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about DBrphysblks.values: */
        /* no check */ ;
```

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# DBrprepblks

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBrprepblks | FR | DMblockid |

### 1.1 DBrprepblks

Global Office Parameter DBrprepblks

### 1.2 Description

***NOTE:*** This is a redundant global parameter!

Contains the same value as DBrphysblks. This parameter will be used by redundant ODD growth in the case of an abort, where the SM must backout the growth.

Populated by DBgen.

***Supported by:*** DBM

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2784

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 2784;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about DBrprepblks.values: */
        /* no check */ ;
```

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# DBrptr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBrptr | FP | DMlong |

### 1.1 DBrptr

Global Office Parameter DBrptr

### 1.2 Description

Contains the starting address of the redundant ODD.

***NOTE:*** This will be different on a 'per SM' basis.

DBgen will populate this value after the non-redundant ODD is populated.

Supported by: DBM

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about DBrptr.values: */
        /* no check */ ;
```

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# DBrrcspace

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBrrcspace | FR | DMshort |

### 1.1 DBrrcspace

Global Office Parameter DBrrcspace

### 1.2 Description

***NOTE:*** This is a redundant global parameter!

Contains the amount of free space that is available in the redundant ODD.

Supported by: DBM

***Type:*** DBSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 128

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 80;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about DBrrcspace.values: */
        /* no check */ ;
```

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# DBrszblk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBrszblk | FR | DMblockid |

### 1.1 DBrszblk

Global Office Parameter DBrszblk

### 1.2 Description

***NOTE:*** This is a redundant global parameter!

First block of the Redundant ODD, whose value will always equal that of the global parameter DBrfblk, (except during a growth of the redundant ODD). DBrszblk will be initialized to zero (just as DBrfblk is).

No population rules available.

Supported by: DBM

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about DBrszblk.values: */
        /* no check */ ;
```

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# DBshiftblk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBshiftblk | FR | DMblockid |

### 1.1 Fullname:

Global Office Parameter DBshiftblk

### 1.2 Description:

NOTE - THIS IS A REDUNDANT GLOBAL PARAMETER!!

This global parameter keeps track of the largest blockid which has been shifted in the RODD bitmap during a NRODD growth.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 268435455

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by either RC or ODA.

***Retrofit Rules:*** This value should be preserved during a generic retrofit.

***Default Rules:***
```
default = 268435455;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about DBshiftblk.values: */
        /* no check */ ;
```

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# DBsmconf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBsmconf | LP | DMlong |

### 1.1 DBsmconf

Global Office Parameter DBsmconf

### 1.2 Description:

Used by offline pump as a pointer to RLsmconf during a retrofit. DBsmconf is resident in the ODD's AM parameter area. This parameter must remain in a fixed location in the parameter area, that is, the fourth word. This parameter is initialized by DBGEN and is updated via a DB trigger function, 'DB_smconf'. ODA does not have to populate this parameter.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard - LP ( AM ) */
        ;
```

***Checks:***

```
/* RULE about DBsmconf.values: */
       /* no check */ ;
```

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# DBunblocks

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| DBunblocks | LPFP | DMblockid |

### 1.1 DBunblocks

Global Office Parameter DBunblocks

### 1.2 Description

Number of unprotected pages. No population rules available.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ODDUNBLOCKS

***AM Initial Value:*** ODDUNBLOCKS

***CMP Initial Value:*** ODDUNBLOCKS

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about DBunblocks.values: */
        /* no check */ ;
```

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## 3.2 Gl_

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# Gl_5pst

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_5pst | LR | DMshort |

### 1.1 Gl_5pst

Global Office Parameter Gl_5pst

### 1.2 Description

Five minute permanent signal threshold for lines. Values for this threshold should be based on office size. Larger offices will require thresholds at higher values. There are no other rules.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 10

***CMP Initial Value:*** 10

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gl_5pst.values: */

        /* no check */ ;
```

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# Gl_apcs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_apcs | LP | DMuns10 |

### 1.1 Fullname:

Global Office Parameter Gl_apcs

### 1.2 Description:

The value of this parameter is to be equal to the number of International telecommunication standardization sector (TSS) 7 and National TSS 7 Adjacent Point Codes to which signaling link(s) exist from the office.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Gl_apcs must be updated by RC when adjacent point codes are inserted or deleted from rlAPCI_APC (International telecommunication standardization sector (TSS) 7 and National TSS 7).

***Retrofit Rules:*** None.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        pcrlist[193] = true;
```

***Checks:***

```
/* Count the number of Adjacent Point Codes to which International SS7
 * and National SS7 signaling links exist from the office.
 */
Gl_apcs on am == count { dpc_info in RLdpc_info on sm_all
                        where (dpc_info.apcindx > 0) };

Gl_apcs on am is_in {0 thru 256};
```

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# Gl_brit

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_brit | FR | DMckttype |

### 1.1 Fullname:

Global Office Parameter Gl_brit

### 1.2 Description:

This office parameter specifies the default type of DSL line card circuit to be assigned in the office. It is used on a DSL assignment (views 23.2 & 23.8), to indicate the subscriber's Network Termination (NT1) type, if a BRI TYPE is not specified on the assignment. This office parameter is provided to help reduce the number of attributes that need to be specified on a DSL assignment.

To function a U-DSL requires a NT1 at the subscribers location to terminate the U interface. With the 5E6(1) software release there are two types of U-DSLs(AMI and ANSI(R) 2B1Q) supported. Since there are now two types it is important to assign a subscriber to a line card (equipment number) with the same type as the subscriber's NT1. If the wrong type is assigned the DSL will not go in service and the subscriber will not get dial tone.

This office parameter may take on one of six values - 5E4 T-card (PCTCARD), 5E4 Phase 1 U-card (PCPUCARD), 5E4 Phase 2 U-card (PCUCARD), 5E6 ANSI(R) Standard U-card (PCU_ANSI), 5E10 U-circuit (PCI2UCKT), or 5E10 T-circuit (PCI2TCKT).

This office parameter can be set by ODA through the ODA Office Option form (5509) and is recent change updatable. There is no default for this global parameter. A type must be specified.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** PCU_ANSI

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***

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```
/* RULE about Gl_brit.values: */

Gl_brit is_in {PCTCARD, PCPUCARD, PCUCARD, PCU_ANSI, PCI2UCKT, PCI2TCKT};
```

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# Gl_cacd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_cacd | LRFR | DMbool |

### 1.1 Fullname:

Global Office Parameter Gl_cacd

### 1.2 Description:

This parameter specifies whether the OSPS Commercial ACD feature is on. DBYES means the feature is on. DBNO means the feature is off.

When this parameter is DBNO, OSPS-ACD code is not entered, so the values of the other OSPS-ACD global parameters don't matter. Changes to the other parameters (with the exception of Glospson) are completely independent of Gl_cacd.

This parameter must be DBNO unless there is at least one ISDN SM in the office. This parameter cannot be set to DBYES if Glospson is set to DBNO.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
env.R,
smconf.R
```

***Checks:***
```
/* RULE about Gl_cacd.values: */
Gl_cacd is_in {DBNO, DBYES};
```

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```
/* RULE about Gl_cacd: */
if (Gl_cacd != DBNO) then
begin
        /* there exists at least one ISDN SM in the office */
        PLSMCONF(GLOPSMDAAC) == true;
        if (runucv) then
        Glospson != DBNO;
end
```

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# Gl_cars

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_cars | LR | DMcount |

### 1.1 Gl_cars

Global Office Parameter Gl_cars

### 1.2 Description

Number of interconnect carriers in the office that are enabled for measurement collection. RC/V and ODA will enforce measurable carriers to be at a limit of Gl_mx_car, which is defined as a constant value of 500.

When a MEASURABLE carrier is added to or deleted from an office, (that is, a tuple inserted to or deleted from the RLfc_carr or RLfc_fgbcarr relation,) the Gl_cars parameter must be incremented or decremented by 1.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** Retrofit from 5e6,5e7-->5e8. Set measure attribute to DBYES for all the Carrier. After retrofit, the poprule check in relation RLrc_cirmk.p for attribute measure will flag errors when chkascii is run.

RLrc_cirmk.measure equals DBYES; Gl_cars = Gl_cars + 1;

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gl_cars.values: */
Gl_cars is_in {0 thru 500};

/* RULE about Gl_cars: */

/* RC/V and ODA Should enforce this check.
* This PRL check is not compiled by chkascii,
```

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```
* therefore this same PRL check appears in
* RLrc_cirmk.p for attribute measure
* which does get compiled into chkascii.
*/
function func() returning boolean
begin
         i = 0;
         for rc_cirmk in RLrc_cirmk
         begin
                 if (rc_cirmk.measure == DBYES) then
                 begin
                 /*
                 * The number 500 is #defined as
                 * Gl_mx_car in Glcpeq.G file.
                 * Glcpeq.G file is generated by
                 * the GX tool from a header file.
                 */
                         i = i + 1;
                 end
         end
         assert(i == Gl_cars);
         assert(i <= 500);
         return true;
 end
 func();
```

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# Gl_cfc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_cfc | LR | DMcflcnt |

### 1.1 Gl_cfc

Global Office Parameter Gl_cfc

### 1.2 Description

Parameter for the Constructed Feature Count. The current number of features (of all modular types except for MFID, MFSC or MFPFA) which have been counted toward the constructed feature limit (Gl_cfl). The value is an unsigned long integer and must be less than or equal to the Gl_cfl.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gl_cfc.values: */

        /* no check */ ;
```

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# Gl_cfl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_cfl | LR | DMcflcnt |

### 1.1 Gl_cfl

Global Office Parameter Gl_cfl

### 1.2 Description

Parameter for the constructed feature limit. The maximum number of additional constructed features which may be defined in the ODD (either via recent change (RC) on the *5ESS*®-2000 switch, or via ODA). The value is an unsigned long integer. If the value is zero, the switch has no feature construction capability. For the 5e2_1 generic the allowable values are 0, 8, 24, 65535.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gl_cfl.values: */

     /* no check */ ;
```

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# Gl_conf6

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_conf6 | FP | DMcount |

### 1.1 Gl_conf6

Global Office Parameter Gl_conf6

### 1.2 Description

Counter to keep track the number of conference circuits for 6-port (6 way calling). When the office grows one circuit, the value will increment by one.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gl_conf6.values: */

        /* no check */ ;
```

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# Gl_conf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_conf | FP | DMcount |

### 1.1 Gl_conf

Global Office Parameter Gl_conf

### 1.2 Description

Number of conference circuits (3-way circuits). When the office grows one circuit, the value will increment by one.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gl_conf.values: */

        /* no check */ ;
```

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# Gl_cpe

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_cpe | FR | DMbool |

### 1.1 Gl_cpe

Global Office Parameter Gl_cpe

### 1.2 Description

This parameter is set to DBYES in every SM when the *5ESS*®-2000 switch is configured as customer premises equipment (CPE), which must comply with FCC rules Part 68, 'Harms to the Network'. This is almost always the case when the *5ESS*®-2000 switch is configured as a PBX. When this parameter is set to DBYES, the power level of dial tone generated by the switch is lowered and the loss plan for talking connections is altered. This is done to comply with the FCC requirements. When this parameter is set to DBNO, no digital loss is inserted on line to line connections, and no digital loss is inserted in the path from the line to the trunk on line to trunk connections. By setting Gl_cpe to DBYES, 3dB of digital loss is inserted in each direction on line to line connections. For line to trunk connections, 3dB of digital loss is inserted from the line to the trunk. See RLrc_tktxc.P for the population rules for 'trnktyp' and 'fetlcls'. 2dB of analog loss can be added to these values for each line that has 'els_loss' set to DBYES. See RLfc_portt.P for the population rules for 'els_loss' in the relation RLfc_porttyp. All SMs in a switch must have the same value of Gl_cpe. The value of Gl_cpe must be maintained across offline ODA processes. Gl_cpe replaces the use of Glim7dummy in 5e3(1). When retrofiting from 5e2(2) to 5e3(1), Gl_cpe must be set to DBYES in 5e3(1) only if Glim7dummy was set to 1 (one) in 5e2(2).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gl_cpe.values: */

        /* no check */ ;
```

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# Gl_dc5

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_dc5 | FP | DMshort |

### 1.1 Gl_dc5

Global Office Parameter Gl_dc5

### 1.2 Description

This parameter indicates the number of equipped (operational) DCLU-5s (0-8) in the SM. It must be updated by RC when DCLU-5s are grown or de-grown.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gl_dc5.values: */

        /* no check */ ;
```

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# Gl_dc5rt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_dc5rt | FP | DMshort |

### 1.1 Gl_dc5rt

Global Office Parameter Gl_dc5rt

### 1.2 Description

This parameter indicates the number of equipped (operational) DCLU-5 RTs (0-256) in the SM. It must be updated by recent change (RC) when DCLU-5 RTs are grown or de-grown.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gl_dc5rt.values: */

        /* no check */ ;
```

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# Gl_dc5s

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_dc5s | LR | DMshort |

### 1.1 Gl_dc5s

Global Office Parameter Gl_dc5s

### 1.2 Description

This parameter indicates the number of equipped (operational) DCLU-5s (currently 0-40) in the office for which measurements are being taken on. It must be updated by recent change (RC) when DCLU-5s are grown or de-grown.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gl_dc5s.values: */

        /* no check */ ;
```

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# Gl_delv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_delv | LR | DMshort |

### 1.1 Gl_delv

Global Office Parameter Gl_delv

### 1.2 Description

Keep track of the number of DCLUs in any given office. This can be obtained by adding the number of DCLUs in each IM. There currently exists a global parameter for this in the IM located in Glimeq.h under the name of Gldclu. Each IM may contain a maximum of 8 DCLUs.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gl_delv.values: */

        /* no check */ ;
```

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# Gl_dfflex

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_dfflex | FP | DMpsuflx |

### 1.1 Gl_dfflex

SM Global Office Parameter Gl_dfflex

### 1.2 Description

Gl_dfflex indicates whether the PSU in that SM contains DF/CF Flex firmware.

- Gl_dfflex equals SMNOFLX: PSU does not have DF/CF Flex on either side 0 or 1.
- Gl_dfflex equals SMSG0FLX: PSU has DF/CF Flex on side 0 only.
- Gl_dfflex equals SMSG1FLX: PSU has DF/CF Flex on side 1 only.
- Gl_dfflex equals SMALLFLX: PSU has DF/CF Flex on both sides 0 and 1.

ODA NOTE:

SMSG0FLX and SMSG1FLX reflect the status of the PSU frame during the conversion and are used by the following subsystems: DG/DN, PC, SMIM, AU, RC/V. When not in conversion, the valid values for Gl_dfflex are SMNOFLX and SMALLFLX.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** SMALLFLX

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules: NOTE:*** Currently only SMALLFLX is supported, therefore Gl_dfflex should always be populated with SMALLFLX.

***Retrofit Rules:*** None.

***Default Rules:***

```
default = SMALLFLX;
```

***Distribution Rules:***

```
for modatt in RLmodatt
         begin
```

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```
                pcrlist[modatt.module] = true;
        end
```

***Checks:***

```
if (current_pcr is_in sm_all) then
 begin
        /* Gl_dfflex should always be set to SMALLFLX. */
        Gl_dfflex == SMALLFLX;
 end
```

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# Gl_dpcs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_dpcs | LP | DMuns12 |

### 1.1 Fullname:

Global Office Parameter Gl_dpcs

### 1.2 Description:

The value of this parameter is to be equal to the number of International telecommunication standardization sector (TSS) 7 or National TSS 7 Non-adjacent Destination Point Codes known to the office.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Gl_dpcs must be updated by RC when Non-adjacent Destination Point Codes are inserted or deleted from RLdpc_dpci (International telecommunication standardization sector (TSS) 7 and National TSS 7). RC should not count tuples that are International TSS 7 or National TSS 7 adjacent point codes.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        pcrlist[193] = true;
```

***Checks:***
```
/* Count the number of International CCITT7 and National CCITT7
 * Non-adjacent Destination Point Codes known to the office.
 */
Gl_dpcs on am == count { dpc_info in RLdpc_info on sm_all
                         where (dpc_info.apcindx == 0) };

Gl_dpcs on am is_in {0 thru 2512};
```

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# Gl_dtuim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_dtuim | FP | DMcount |

### 1.1 Gl_dtuim

Global Office Parameter Gl_dtuim

### 1.2 Description

Number of digital line and trunk units (DLTU) and DLTU2s in an SM.

This parameter must be assigned the value of either the highest numbered DLTU assigned in the SM, or the highest numbered DLTU2 assigned in the SM (whichever is greater), plus 1.

Examples:

```
If an SM has DLTUs 0,1,2, and 3 assigned,
Gl_dtuim must be set to 4.

If an SM has DLTUs 1,2, and 3 assigned
( but not 0 ), Gl_dtuim must be set to 4.

If an SM has DLTUs 0,1,2,6, and 7 assigned,
Gl_dtuim must be set to 8.

If an SM has DLTUs 0,1,and 2 assigned, and
DLTU2s 5 and 6 assigned, Gl_dtuim must be
set to 7.

If an SM has DLTUs 5,6, and 7 assigned, and
DLTU2s 1 and 2 assigned, Gl_dtuim must be
set to 8.
```

Gl_dtuim does not necessarily represent the actual number of DLTUs on the SM, but in order to report Traffic

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Measurements correctly on DLTUs its value must be set to the highest DLTU/DLTU2 plus 1. This parameter is only used for traffic measurements. However, it can be updated by recent change/verify (RC/V) for growth or degrowth situations.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gl_dtuim.values: */

        /* no check */ ;
```

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# Gl_dus

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_dus | LR | DMshort |

### 1.1 Gl_dus

Global Office Parameter Gl_dus

### 1.2 Description

The number of digital line and trunk units ( DLTU ) and digital line and trunk unit-2s ( DLTU2 ) in the office.

This parameter must be equal to the sum of all the Gl_dtuim parameters from all the SMs in the office. This may be different from the actual count of the number of DLTUs and DLTU2s present. If the value of a Gl_dtuim parameter in an SM is added to or subtracted from, the corresponding amount must be applied ( added or subtracted ) to Gl_dus. This parameter is used only for traffic measurements and must be accurate in order to correctly report measurements for DLTUs. This parameter can also be updated by recent change/verify (RC/V) for growth or degrowth situations.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gl_dus.values: */

        /* no check */ ;
```

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# Gl_erasure

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_erasure | LRFR | DMlong |

### 1.1 Gl_erasure

Erasure

### 1.2 Description

The erasure parameter is used for the CDMA Data Services application on the *5ESS*®-2000 switch. The value of this global parameter will indicate the number of consecutive erasures allowed for RLP frames.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 127

***AM Initial Value:*** 127

***CMP Initial Value:*** 127

***RC/ODA Rules:*** This global parameter is not supported by RC, but is supported by ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 127;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gl_erasure.values: */

 Gl_erasure is_in {127 thru 256};
```

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# Gl_gdsuim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_gdsuim | FP | DMcount |

### 1.1 Gl_gdsuim

Global Office Parameter Gl_gdsuim

### 1.2 Description

Number of global digital serv. unit per module. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gl_gdsuim.values: */

        /* no check */ ;
```

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# Gl_genttf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_genttf | FP | DMcount |

### 1.1 Fullname:

Global Office Parameter Gl_genttf

### 1.2 Description:

This global parameter contains the number of ttf tone generators per module.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Import:***

```
env.R
```

***Checks:***

```
if (runslow) then   /* runslow due to excessive cpu usage */
begin

if (current_pcr is_in sm_all) then
begin

/* RULE about Gl_genttf.values: */


/* This parameter includes the total number of TTF tone
   generators per sm */
```

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```
       Gl_genttf == count { ckt in RLcktdata on current_pcr
            where (ckt.type is_in { PCTTFTGEN, PCTNGEN }) };

end
end
```

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# Gl_gus

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_gus | LR | DMshort |

### 1.1 Gl_gus

Global Office Parameter Gl_gus

### 1.2 Description

The count of GDSC units in the office. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gl_gus.values: */

         /* no check */ ;
```

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# Gl_hims

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_hims | LR | DMshort |

### 1.1 Gl_hims

This is the Global Office Parameter Gl_hims.

### 1.2 Description:

Count of host interface modules in office.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Gl_hims.values: */

BChims: Gl_hims == count { modatt in RLmodatt
                                where (modatt.imtype == SM5HIM) };
```

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# Gl_islu

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_islu | FP | DMshort |

### 1.1 Gl_islu

Global Office Parameter Gl_islu

### 1.2 Description

This parameter indicates the number of physically equipped (R)ISLUs and ISLU2s in the SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** It must be updated by recent change (RC) when ISLU(2)s or RISLUs are grown or de-grown.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

 pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gl_islu.values: */

/*
 * Since there are two tuples in RLcktdata for each (R)ISLU
 * and ISLU2, the final result must be divided by two.
 */

/* This check causes a linear search of CKTDATA, so leave it commented
 * out until a better way to determine the correct count is found.
```

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```
 *
 * Gl_islu == count { cktdata in RLcktdata
 *              where ( cktdata.type == PCCCISLU &&
 *                      cktdata.eqstat == SMOPER ) } / 2;
 */

for modatt in RLmodatt
where (modatt.module is_in sm_all)
begin
         if (modatt.unittype == SMSM2000) then
         begin
                 Gl_islu is_in {0 thru 27};
         end
         else
         begin
                 Gl_islu is_in {0 thru 8};
         end
end
end
```

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# Gl_islus

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_islus | LR | DMshort |

### 1.1 Gl_islus

Global Office Parameter Gl_islus

### 1.2 Description

This parameter indicates the number of equipped (R)ISLUs and ISLU2s (0-1536 for a 192 SM office) in the office. This parameter is not dependent on the type of SMs in the office.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** It must be updated by RC when ISLUs or RISLUs are grown or de-grown.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gl_islus.values: */

         Gl_islus is_in {0 through 1536};
```

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# Gl_isluz

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_isluz | LR | DMshort |

### 1.1 Gl_isluz

Global Office Parameter Gl_isluz

### 1.2 Description

This parameter indicates the total number of equipped ISLUs and RISLUs with Z cards (0-1536 for 192 SM office) in the office. It should be initially populated, via ODA, with the combined total number of ISLUs and RISLUs with Z cards that exist in an office, otherwise, the default is zero. It must be updated by recent change (RC) when ISLUs or RISLUs with Z cards are grown or de-grown.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gl_isluz.values: */

Gl_isluz is_in {0 thru 1536};
```

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# Gl_isms

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_isms | LR | DMshort |

### 1.1 Gl_isms

Global Office Parameter Gl_isms

### 1.2 Description

This parameter indicates the number of SMs (0-192) in the office equipped with the ISDNBASE loadable software package. It must be incremented/decremented when an SM containing the ISDNBASE loadable package is grown or de-grown.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
let SMCONF_TUP(pcr) = find == 1 smconf in RLsmconf
                 where (smconf.module == pcr &&
                        (smconf.smconfig == CNFG002 ||
                         smconf.smconfig == CNFG003 ||
                         smconf.smconfig == CNFG2K00));

let TOTAL() = count { pcr in sm_all
                  where(SMCONF_TUP(pcr) == true) };

Gl_isms == TOTAL();
```

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# Gl_lims

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_lims | LR | DMcount |

### 1.1 Gl_lims:

Global Office Parameter Gl_lims

### 1.2 Description:

This parameter contains the number of IMs in the office that are neither HIMs or RIMs. This parameter must be updated every time a LIM status changes. The range is from one to Gl_max_ims, subject to the constraint that the sum Gl_lims + Gl_hims + Gl_rims can not be larger than Gl_max_ims, which is the maximum number of IMs allowed in this generic.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 1

***CMP Initial Value:*** 1

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Gl_lims.values: */

BClims: Gl_lims == count { modatt in RLmodatt
                                where (modatt.imtype is_in
                                        { SM5ORM, SM5IM, SM5TRM }) };
```

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# Gl_ltmax

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_ltmax | FP | DMltm_idx |

### 1.1 Gl_ltmax

Global Office Parameter Gl_ltmax

### 1.2 Description

Gl_ltmax is populated from data in the RLis_line static relation. It contains the maximum value of IS_LINE.ltm_idxi from IS_LINE for all tuples which have IS_LINE.lead_module equal to current module. For example if there are four RLis_line tuples on a given SM, and the value of the ltm_idxi attributes are 1, 2, 17, and 4, the value which Gl_ltmax should have is 17. This parameter should exist on all SMs. If there are no RLis_line tuples for this SM, the value of Gl_ltmax should be zero. Supported by none.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** ODA only. See description.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Gl_ltmax.values: */

for pcr in sm_all
begin
         for modatt in RLmodatt
         where (modatt.module == pcr)
         begin
                 if (modatt.unittype == SMSM2000 ) then
```

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```
                begin
                        Gl_ltmax on pcr is_in {0 thru 65535};
                end else
                begin
                        Gl_ltmax on pcr is_in {0 thru 4095};
                end
        end
end
```

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# Gl_luim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_luim | FP | DMcount |

### 1.1 Fullname:

Global Office Parameter Gl_luim

### 1.2 Description:

This global parameter contains the number of analog line units ( LU ) in module.

This parameter must be assigned the value equal to the highest numbered LU plus 1 that is assigned in the SM.
Examples:

```
If an SM has LUs 0,1,2, and 3 assigned,
Gl_luim must be set to 4.
If an SM has LUs 1,2 and 3 (but not 0),
Gl_luim must be set to 4.

If an SM has LUs 0,1,2,6,7 assigned,
Gl_luim must be set to 8.
```

Gl_luim does not necessarily represent the actual number of LUs assigned in the SM but in order to report Traffic Measurements correctly for all LUs, its value has to equal the highest numbered LU plus 1. This parameter is used only by Traffic Measurements, however it can be updated by RC/V for growth or degrowth situations.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Import:***

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```
rlindx2ckt.R,
env.R
```

***Checks:***

```
/* RULE about Gl_luim.values: */

if (current_pcr is_in sm_all) then
begin
        for modatt in RLmodatt
        where (modatt.module == current_pcr)
        begin
            let lu_max = (modatt.unittype is_in {SMSM2000,
                          SMSM2005}) ? 43 : 8;

            /*
             * this parameter must equal the highest
             *  number of LU's found plus 1
             */
            if (Gl_luim != 0) then
            begin
Rgl_1:          find == 1 cktdata in RLcktdata
                where ( cktdata.name is_in { PLINDX2CKT
                        (0x1, Gl_luim-1, SMLU3, current_pcr),
                         PLINDX2CKT(0x1, Gl_luim-1, SMLU4, current_pcr),
                         PLINDX2CKT(0x1, Gl_luim-1, SMC1LU, current_pcr),
                         PLINDX2CKT(0x1, Gl_luim-1, SMLU, current_pcr)} )
                when_found
                     cktdata.eqstat == SMOPER;
            end

/* runslow added due to linear search of UNIT_CKT and excessive
   cpu usage */
        if (runslow) then
        begin

            for unit_ckt in RLunit_ckt
            where ( unit_ckt.unit is_in { Gl_luim thru lu_max } &&
                    Gl_luim <= lu_max &&
                    unit_ckt.utype is_in { SMLU, SMC1LU, SMLU3, SMLU4 } &&
                   unit_ckt.ckt_indx == 0x1 )
            begin
                   find == 1 cktdata in RLcktdata
                   where ( cktdata.name == unit_ckt.cktname )
                   when_found
                           cktdata.eqstat != SMOPER;
           end
        end
        end
end
```

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# Gl_lus

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_lus | LR | DMcount |

### 1.1 Gl_lus

Global Office Parameter Gl_lus

### 1.2 Description

Number of operational analog line units (LU) in the office.

This parameter must equal a count of all the operational analog line units from all the operational SMs in the office. Therefore, if line units are added (made operational) or removed (made unoperational), in any SM, the corresponding number of line units involved must be applied (added or subtracted) to the Gl_lus parameter.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 1

***CMP Initial Value:*** 1

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gl_lus.values: */

        /* no check */ ;
```

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# Gl_mdphs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_mdphs | LP | DMuns10 |

### 1.1 Gl_mdphs

Global Office Parameter Gl_mdphs

### 1.2 Description

This parameter indicates the number of equipped message delivery protocol handlers (MD-PH)s in an office.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Gl_mdphs must be updated by RC when MD - DLT ports are inserted or deleted and RLdslgdata.dsltype changes to or from PS_MD or PS_MDST7.

Gl_mdphs must increase by 2 when one MD Link is grown on a non bunny hop PH, or by 1 when the MD link is grown on a bunny hop (that is RLmdpath the RLmdpath.mate_dlt=RLmdpath.dlt), and RLdslgdata.dsltype changes from PS_NULL to PS_MD or from PS_ST7 to PS_MDST7.

It must decrease by 2 when one MD Link is degrown on a non bunny hop PH, or by one when the MD link is grown on a bunny hop, and RLdslgdata.dsltype changes from PS_MDST7 to PS_ST7, or from PS_MD to PS_NULL.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* Count all MD PHs over all SMs. */

let mdph_cnt = count { dslgdata in RLdslgdata on sm_all
                      where (dslgdata.assigned == DBYES &&
                      dslgdata.dsltype is_in {PS_MD, PS_MDST7}) };
Gl_mdphs == mdph_cnt;
```

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```
Gl_mdphs is_in {0 thru 192};
```

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# Gl_mdports

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_mdports | LP | DMuns10 |

### 1.1 Fullname:

Global Office Parameter Gl_mdports

### 1.2 Description:

This parameter indicates the number of populated Message Delivery (MD) data link terminal ports in an office. This global parameter represents the sum of all tuples (for MD DLT ports) in RLmdpath relation in all SMs in the office.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Gl_mdports must be updated by RC when MD - DLT ports are inserted or deleted. The value of this parameter must be assigned by ODA when a new CCS office is installed. Gl_mdports will be set to the default value in offices without CCS. Gl_mdports must increase/decrease by 2 when one MD Link is grown/degrown on a non bunny hop PH, and increase/decrease by 1 when a MD Link is grown/degrown on a bunny hop PH (in RLmdpath, RLmdpath.mate_sm == RLmdpath.sm).

***Retrofit Rules:*** None.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        pcrlist[193] = true;
```

***Checks:***

```
/* Count all the assigned MD DLT ports in the SMs. */
Gl_mdports on am == count { mdpath in RLmdpath on sm_all };

Gl_mdports on am is_in {0 thru 192};
```

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# Gl_mmp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_mmp | LR | DMshort |

### 1.1 Gl_mmp

Global Office Parameter Gl_mmp

### 1.2 Description

Count of module message processor in the office. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gl_mmp.values: */

        /* no check */ ;
```

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# Gl_osn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_osn | LR | DMcflcnt |

### 1.1 Fullname:

Global Office Parameter Gl_osn

### 1.2 Description:

This parameter contains the Office Serial Number. An arbitrary number assigned by Lucent Technologies™ to a switch for the purpose of enforcing constructed feature limits. This value should not be displayed or transmitted to the TELCo.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Gl_osn.values: */

        /* no check */ ;
```

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# Gl_oso

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_oso | LRFR | DMbool |

### 1.1 Gl_oso

Global Office Parameter Gl_oso

### 1.2 Description

This global office parameter indicates whether or not an office is an originating screening office (OSO) for INward wide area telephone service (INWATS) 800 Service calls (dest_type FCOSOIWTS in relation DAPRIMDGT). If the parameter is set to DBYES by the Office database assembler (ODA) or by the office database Editor (ODBE), then 800 Service calls originating on trunks will cause the INWATS network control point (NCP) database to be queried and a 10-digit POTS number will be received in response. Routing of the call is then done based on translation of this number.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gl_oso.values: */

        /* no check */ ;
```

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# Gl_pcrid

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_pcrid | FP | DMmodule |

### 1.1 Gl_pcrid:

Global Office Parameter Gl_pcrid

### 1.2 Description:

Processor identifier. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gl_pcrid.values: */

BCpcrid:        Gl_pcrid is_in {0 thru 192};

end
```

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# Gl_ph

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_ph | FP | DMshort |

### 1.1 Gl_ph:

Global Office Parameter Gl_ph

### 1.2 Description:

This parameter indicates the number of equipped Protocol Handlers (PH)s in an ISDN SM (0-96). It must be updated by RC when a PH is grown or de-grown.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gl_ph.values: */

BCph:   Gl_ph is_in {0 thru 96};

end
```

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# Gl_phs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_phs | LR | DMshort |

### 1.1 Gl_phs

Global Office Parameter Gl_phs

### 1.2 Description

This parameter indicates the number of equipped PHs (Protocol Handlers) in an office. It must be updated by RC when a PH is grown or de-grown.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Gl_phs.values: */

Gl_phs is_in {0 thru 18432};
```

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# Gl_pips

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_pips | LR | DMcount |

### 1.1 Gl_pips

Global Office Parameter Gl_pips

### 1.2 Description

Number of PIPs in the office that can be logically active. The range is from one to 12. For 5E6 the limit is 1.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 1

***CMP Initial Value:*** 1

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 1;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gl_pips.values: */

        /* no check */ ;
```

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# Gl_qgp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_qgp | LRFP | DMshort |

### 1.1 Gl_qgp

Global Office Parameter Gl_qgp (Quad link Gateway Processor)

### 1.2 Description:

This parameter indicates the number of Quad link Gateway Processors (QGPs) in the office. For *5ESS®*-2000 switch release 1, there can be 0 through 4 QGP's in the office.

This parameter is used by QLPS message routing and by Switch Maintenance to determine, using the RLspc relation, the number of operational or growth QGPs in the office.

It is used by UT to determine if the QGP (optional unit) is supported in the office before accepting a UT input message for it.

It is used by diagnostics to derive endpoints for packet sources.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Gl_qgp is populated in the AM, CMP, and in SM-2000's. It is incremented by 1 whenever a QGP is grown to the growth state. It is decremented by 1 whenever a QGP is removed.

***Retrofit Rules:*** ODA must recalculate this parameter during a retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        pcrlist = get_gpd_pcrlist(GPD_QLPS, 0);
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
/* Count the number of growth or operational QGP's. */
let cnt = count { spc in RLspc where
```

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```
                  ((spc.type == SM5QGP) &&
                   (spc.eqstat == SMOPER ||
                    spc.eqstat == SMGROW))
                };

/* Check if processor is a SM */
if (current_pcr is_in sm_all) then
begin
    /* If the SM is an SM-2000, then Gl_qgp should equal the
     * number of operational or growth QGPs, otherwise Gl_qgp
     * should be 0.
     */
    find == 1 modatt in RLmodatt
    where (modatt.module == current_pcr)
    when_found
    begin
BCqgp1: Gl_qgp == ((modatt.unittype is_in {SMSM2000, SMSM2005}) ? cnt : 0);
    end
end
else
begin
    /* Processor is the AM or CMP */
BCqgp2: Gl_qgp == cnt;
end

/* Range Check */
BCqgp3: Gl_qgp is_in {0, 2, 4};
```

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# Gl_rims

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_rims | LR | DMcount |

### 1.1 Gl_rims

Global Office Parameter Gl_rims

### 1.2 Description

Count of remote interface modules in office. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gl_rims.values: */

        /* no check */ ;
```

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# Gl_rmrte

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_rmrte | FR | DMbool |

### 1.1 Gl_rmrte

Global Office Parameter Gl_rmrte

### 1.2 Description

This parameter indicates if the telecommunication standardization sector (TSS) No. 7 MTP Routing Enhancements feature is active for a Global SM. This parameter indicates a need for a specific RC/V mask using routing cases and populating specific relations for links and load sharing.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ***NOTE:*** The telecommunication standardization sector (TSS) No. 7 MTP Routing Enhancement feature isn't supported, therefore Gl_rmrte should be populated with DBNO.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* Gl_rmrte should equal DBNO. */

Gl_rmrte == DBNO;
```

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# Gl_rspttf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_rspttf | FP | DMcount |

### 1.1 Gl_rspttf

Global Office Parameter Gl_rspttf

### 1.2 Description

No of ttf responsers per module. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gl_rspttf.values: */

        /* no check */ ;
```

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# Gl_rtdc5

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_rtdc5 | LR | DMshort |

### 1.1 Gl_rtdc5

Global Office Parameter Gl_rtdc5

### 1.2 Description

This parameter indicates the number of equipped (operational) DCLU-5 RTs (currently 0-320) in the office for which measurements are being taken on. It must be updated by RC when DCLU-5 RTs are grown or de-grown.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gl_rtdc5.values: */

        /* no check */ ;
```

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# Gl_rvpt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_rvpt | FP | DMcount |

### 1.1 Gl_rvpt

Global Office Parameter Gl_rvpt

### 1.2 Description

Number of equipped revertive pulsing transceiver circuits in an SM. This number should equal the number of equipped RP Transceiver circuits in RLCKTDATA.0 (the number of tuples with type equals PC_RVPT and eq stat equals SMOPER). Gl_rvpt should also equal the number of tuples in RLRPTRNSCV.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Gl_rvpt.values: */

        /* no check */ ;
```

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# Gl_sm2k

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_sm2k | LR | DMcount |

### 1.1 Gl_sm2k:

Global Office Parameter Gl_sm2k

### 1.2 Description:

This parameter contains the number of operational SM-2000 SMs in the office. This parameter must be updated every time an SM-2000 status changes within an office.

Note that SM-2000 defines a class of SMs, which is comprised of SM-2000(SMSM2000) and SM2005(SMSM2005).

The SMxxxx without a "dash" is an "altval" used by RCV and ODA.

The (SMSMxxxx) defines the SM's unittype.

Also note that the use of the SM-2000 and SM-2000 names throughout the prl files has not been used consistently, and therefore may be used in such a way that does not correspond to the above definition.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter should be preserved over a retrofit.

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Gl_sm2k: */

BCsm2k: Gl_sm2k == count{modatt in RLmodatt
                where (modatt.module is_in sm_all &&
                        modatt.unittype is_in {SMSM2000, SMSM2005} &&
                        modatt.eqstat == SMOPER )};
```

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# Gl_spa

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_spa | LR | DMbool |

### 1.1 Gl_spa

Global Office Parameter Gl_spa

### 1.2 Description

This parameter is used to determine if the special access feature is active or inactive in a *5ESS*®-2000 toll switch office. To be active implies that at least one special access customer is or will be connected to the *5ESS*®-2000 toll switch. A special access customer is one who has their PBX (digital or analog) directly connected to the DLTU of a *5ESS*®-2000 toll switch.

The default value DBNO indicates that there is no connected special access customers; therefore, the special access feature is inactive. The value DBYES indicates that there is at least one connected (or will be) special access customer; therefore, the special access feature is active.

Before special access TG member information can be added using RC view 5.5, Gl_spa must be set to DBYES. This includes TG members with a service class equal to FC_SPAWATS, FC_SPAMEG, FC_SPAB800 or FC_SPAM800. TG, billing, band screening and exempt NXX information can be added regardless of the value in Gl_spa.

Gl_spa has no affect on special access call processing.

When Gl_spa is set to DBNO, special access TRFC30 measurements will be automatically inhibited for collection and output to the ROP. When Gl_spa is set to DBYES, special access TRFC30 measurements will be allowed for collection and output to the ROP unless the special access section (Section 98 of TRFC30) has been inhibited.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** 0

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

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***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
 /* RULE about Gl_spa.values: */

         /* no check */ ;
```

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# Gl_ss7lnks

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_ss7lnks | LRFP | DMuns10 |

### 1.1 Fullname:

Global Office Parameter Gl_ss7lnks

### 1.2 Description:

On the AM, this parameter indicates the number of equipped SS7 Signaling Links in the office. On the SM, this parameter indicates the number of equipped SS7 Signaling Links on the SM.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** TMi_trig,

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Gl_ss7lnks must be updated by RC when Signaling links are inserted or deleted from RLls_lnk. The value of this parameter must be assigned by ODA when a new office with International CCITT7 or National CCITT7 is installed.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
function total() returning int
begin
        lnk_cnt = 0;

        for gsm_opc in RLgsm_opc
        begin
                lnk_cnt = lnk_cnt + Gl_ss7lnks on gsm_opc.gsm;
        end
```

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```
        return lnk_cnt;
end

if (current_pcr is_in sm_all) then
begin
        if (Glglobalsm == 0) then
        begin
                Gl_ss7lnks == 0;
        end
        else
        begin
                Gl_ss7lnks is_in {0 thru 32};
                Gl_ss7lnks == count { ls_lnk in RLls_lnk };
        end
end
else
begin
        Gl_ss7lnks == total();
end
```

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# Gl_ss7sls

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_ss7sls | LRFP | DMuns10 |

### 1.1 Fullname:

Global Office Parameter for total Signaling Link Sets

### 1.2 Description:

On the AM, this parameter indicates the number of equipped SS7 Signaling Link Sets in an office. On the SM, this parameter indicates the number of equipped SS7 Signaling Link Sets on the SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** The value of this parameter must be assigned by ODA when a new office with International CCITT7 or National CCITT7 is installed. Its value will change during office growth/degrowth or during retrofit if new signaling link sets are inserted or deleted from RLls_grp. Gl_ss7sls must be updated by RC when Signaling Link Sets are inserted or deleted from RLls_grp.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        begin
                pcrlist[modatt.module] = true;
        end
```

***Checks:***
```
/* Count all SS7 Signaling Link sets in the office. */
function totalls() returning int
begin
        ls_cnt = 0;

        for gsm_opc in RLgsm_opc
        begin
```

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```
                ls_cnt = ls_cnt + Gl_ss7sls on gsm_opc.gsm;
        end

        return ls_cnt;
end

if (current_pcr is_in sm_all) then
begin
        if (Glglobalsm == 0) then
        begin
                Gl_ss7sls == 0;
        end
        else
        begin
                Gl_ss7sls is_in {0 thru 16};
                Gl_ss7sls == count { ls_grp in RLls_grp };
        end
end
else
begin
        Gl_ss7sls == totalls();
end
```

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# Gl_tdttf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_tdttf | FP | DMcount |

### 1.1 Gl_tdttf

Global Office Parameter Gl_tdttf

### 1.2 Description

No of ttf tone detectors per module. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gl_tdttf.values: */

        /* no check */ ;
```

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# Gl_tgs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_tgs | LR | DMcount |

### 1.1 Gl_tgs:

Global Office Parameter Gl_tgs

### 1.2 Description:

This parameter contains the count of trunk groups in the office. The Gl_tgs is initialized to 5 on the VAX Execution Environment by the CPVXODBE tool. Since this parameter is the number of defined trunk groups in the office, it should be initialized to zero until a trunk group is defined by a user.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Gl_tgs.values: */

/* Count the number of trunk groups excluding Speech
 * Handler (SH), Packet Pipe (PP), Packet Pipe
 * Member (PPM), Autoplex(R) Data Trunk (ADT)
 * in the office and assign to this parameter.
 */
Gl_tgs == count {rctgrprk in RLrctgrprk
                where (!(rctgrprk.servclass is_in
                        {PSAPXSH, PSAPXPP, TMAPXPPM,
                        PSADT}) )};
```

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# Gl_tinsp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_tinsp | FR | DMushort |

### 1.1 Gl_tinsp

Global Parameter timer for inspect

### 1.2 Description

This parameter specifies the length of time (in seconds) that a user has, after initial depression of the Inspect feature button, to select another button or call appearance for inspection. The timer starts when the user presses the Inspect button and stops either when the timer expires or the user presses another feature button or call appearance. The timer is to accommodate a range of values from 1 to 10 seconds, in 1 second increments with a default value of 3 seconds. This global must have a non-zero value greater than or equal to 1.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 3

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by both ODA and RC.

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 3;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gl_tinsp.values: */

Gl_tinsp is_in {1 thru 10};
```

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# Gl_tttf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_tttf | FP | DMcount |

### 1.1 Gl_tttf

Global Office Parameter Gl_tttf

### 1.2 Description

Number of touch tone circuits per module. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gl_tttf.values: */

        /* no check */ ;
```

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# Gl_tuim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_tuim | FP | DMcount |

### 1.1 Gl_tuim

Global Office Parameter Gl_tuim

### 1.2 Description

The number of analog trunk units (TU) assigned to the SM.

This parameter must be assigned the value equal to the highest numbered TU plus 1.

Examples:

If an SM has TUs 0,1,2 and 3 assigned, Gl_tuim must be set to 4.
If an SM has TUs 1,2, and 3 assigned ( but not TU 0 ), Gl_tuim must be set to 4.
If an SM has TUs 0,1,2,6, and 7 asigned, Gl_tuim must be set to 8.

Gl_tuim does not necessarily represent the actual number of TUs assigned on the SM but in order to report traffic measurements correctly on all TUs, its value must equal the highest numbered TU plus 1. This parameter is used only by traffic measurements, however it can be updated by recent change/verify (RC/V) for growth or degrowth situations.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

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```
/* RULE about Gl_tuim.values: */

        /* no check */ ;
```

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# Gl_tus

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_tus | LR | DMcount |

### 1.1 Gl_tus

Global Office Parameter Gl_tus

### 1.2 Description

The count of the total number of analog trunk units (TU) in the office.

This parameter must be equal to the sum of all the Gl_tuim parameters in all the SMs in the office. This may be different from the actual count of the TUs that are actually present. If the value of a Gl_tuim parameter in an SM is added to or subtracted from, the corresponding amount must be applied ( added or subtracted ) to Gl_tus. This parameter is only used by traffic measurements, however it can be updated by recent change/verify (RC/V) for a growth or degrowth situation.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gl_tus.values: */

        /* no check */ ;
```

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# Gl_utd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_utd | FP | DMcount |

### 1.1 Gl_utd

Global Office Parameter Gl_utd

### 1.2 Description

Number of tone decoders in module. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gl_utd.values: */

        /* no check */ ;
```

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# Gl_vpst

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl_vpst | LR | DMshort |

### 1.1 Gl_vpst

Global Office Parameter Gl_vpst

### 1.2 Description

Permanent signal threshold for variable timer for lines. Values for this threshold should be based on office size. Larger office will require thresholds at higher values. There are no other rules.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 20

***CMP Initial Value:*** 20

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gl_vpst.values: */

Gl_vpst is_in {4 thru 400};
```

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## 3.3 GI1

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# Gl1accskey

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl1accskey | FP | DMoah32 |

### 1.1 Gl1accskey

Global Office Parameter Gl1accskey

### 1.2 Description

Gl1accskey is specified in hex. This parameter, in conjunction with four others: Gl2accskey, Gl3accskey, Gl4accskey, and Gl5accskey, is the means by which values of the 'accsdb_key' attribute located in the LPRT_ACCS static relation are to be monitored. 'Monitoring' these values means keeping track of which values are in use and which are available.

This global only should be populated on SM's having at least one tuple with servclass = FC_RAFDTA in the RLfc_porttyp relation.

***NOTE:*** This assumes that the OSPS ACCS feature is the only user of the FC_RAFDTA servclass. On those SM's where at least one of the FC_RAFDTA tuples do not exist, this global should contain a value of 0.

At SM initialization, upon the initialization of the LPRT_ACCS relation, this parameter will be updated by ODA to indicate which of the available 'accsdb_key' values are in use. This is done on a 'per' SM basis.

This global parameter will be populated as follows by ODA:

ODA will read each tuple in RLLPRT_ACCS, which contains the information needed to populate the global), and, depending on the VALUE of the accsdb_key attribute, will turn on the bit in this global which represents that value. For example, if the 1st tuple of RLLPRT_ACCS is read, and the value of the accsdb_key attribute is 31, then the 31st bit (when referenced from the low-order to the high-order bit) will be turned on (set to 1). If the next RLLPRT_ACCS tuple contains an accsdb_key value of 1, then the bit which represents this value, (or the 1st bit (lowest order bit)), will be turned on (set to 1). If these two tuples were the only tuples in LPRT_ACCS, then, after the Gl1accskey was populated, it would look like this:

```
    32.............................1

    ---------------------------------

    |01000000000000000000000000000001|

    ---------------------------------

      ^                             ^

      |                             |

(31st bit on)                 (1st bit on)
```

***NOTE:*** The above is simply an example. The order of the accsdb_key values is not necessarily 31 and then 1, nor is it fixed or sequential. Its only requirement is to be a unique number between the range of 1-160. This is indicated in the RLlprtaccs.P poprules.

The range of 'accsdb_key' values is 1-160. Each bit in this parameter (Gl1accskey) will represent accsdb_key

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values of 1-32. For example, the lowest-order bit of this parameter will represent accsdb_key 1. The highest-order bit will represent accsdb_key 32.

As there are only 32 bits in this global, and a possibility of 1-160 accsdb_key values, only the VALUES 1-32 are handled by this global. The other values are handled by the next globals: Gl2accskey, Gl3accskey, Gl4accskey, and Gl5accskey.

When the LPRT_ACCS relation is updated by recent change/verify (RC/V), RC/V will get the next available value of the accsdb_key attribute by reading this global parameter (Gl1accskey), and, if necessary, the next four (Gl2accskey, Gl3accskey, Gl4accskey, and Gl5accskey). The first 0 bit (from low-order to high-order bits) will be the first available accsdb_key value, and its position will be its value. If all the bits in this global are turned on, then RC/V will read Gl2accskey in the same order, and so on until a zero bit is found.

In the case of a deletion, RC/V will update this global to indicate the availability of that particular accsdb_key value. The availability of the accsdb_key value will be indicated by turning the appropriate bit in the global off (setting it to zero).

This global does not appear on a RC/V view.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = 0;

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gl1accskey.values: */
     Gl1accskey is_in {0 thru 0xFFFFFFFF};
end
```

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# Gl1arpl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl1arpl | LR | DMbool |

### 1.1 Gl1arpl

Global Office Parameter Gl1arpl

### 1.2 Description

This parameter is used to activate the pseudo point code feature. The pseudo point code feature should be activated during precutover testing of ISUP7 trunks where a *5ESS* ®-2000 switch is replacing a 1AESS switch which has operational ISUP7 trunks. The *5ESS*®-2000 switch has been assigned a pseudo point code that will be replaced by the actual 1AESS point code when actual switch replacement occurs.

A value of DBNO means that the feature is turned off. A value of DBYES means that the Pseudo Point Code Feature is active. When this feature is active, the software will apply pseudo point code processing to both incoming and outgoing ISUP7 trunk signaling messages.

This parameter is only updatable using ODBE since its value is only changed during a precutover testing interval. Refer to 1AESS switch replacement procedure documentation before turning on this feature.

This parameter is replacing the old dummy parameter, Glcp2dummy which was used in the 5E5 generic.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** 0

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = DBNO;

***Distribution Rules:*** /* standard */

***Checks:***

```
/* RULE about Gl1arpl.values: */
Gl1arpl is_in {DBNO, DBYES};
```

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# Gl1poskey

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl1poskey | FP | DMoah32 |

### 1.1 Gl1poskey

Global Office Parameter Gl1poskey

### 1.2 Description:

This parameter, in conjunction with six others: Gl2poskey, Gl3poskey, Gl4poskey, is the means by which Gl5posk, Gl6posk, and Gl7posk values of the 'posdb_key' attribute located in the LPRT_POS and POS_LPRT static relations will be monitored. 'Monitoring' these values means keeping track of which values are in use and which are available. Gl1poskey is specified in hex.

This global should only be populated on SM's where the osps_sm attribute in RLmodatt is set to DBYES. On those SM's where the osps_sm attribute is set to DBNO, this global should contain a value of 0.

At SM initialization, upon the initializaton of the LPRT_POS and POS_LPRT relations, this parameter will be updated by ODA to indicate which of the available 'posdb_key' values are in use. This is done on a 'per' SM basis.

This global parameter will be populated as follows by ODA:

ODA will read each tuple in RLLPRT_POS (or RLPOS_LPRT, as these two relations are dependent upon each other, and both contain the information needed to populate the global), and, depending on the VALUE of the posdb_key attribute, will turn on the bit in this global which represents that value. For example, if the 1st tuple of RLLPRT_POS is read, and the value of the posdb_key attribute is 31, then the 31st bit (when referenced from the low-order to the high-order bit) will be turned on (set to 1). If, then, the next RLLPRT_POS tuple contains a posdb_key value of 1, then the bit which represents this value, (or the 1st bit (lowest order bit)), will be turned on (set to 1). If these two tuples were the only tuples in LPRT_POS, then, after the Gl1poskey was populated, it would look like this:

```
    32.............................1

    ---------------------------------

    |01000000000000000000000000000001|

    ---------------------------------

      ^                             ^

      |                             |

(31st bit on)                 (1st bit on)
```

***NOTE:*** The above is simply an example. The order of the posdb_key values is not necessarily 31 and then 1, nor is it fixed or sequential. It's only requirement is to be a number between the range of 1-200. This is indicated in the RLlprt_pos.P poprules as well as in the RLpos_lprt.P poprules.

The range of 'posdb_key' values is 1-200. Each bit in this parameter (Gl1poskey) will represent posdb_key values of 1-32. For example, the lowest-order bit of this parameter will represent posdb_key 1. The highest-order bit will represent posdb_key 32.

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As there are only 32 bits in this global, and a possiblity of 1-200 posdb_key values, only the VALUES 1-32 are handled by this global. The other values are handled by the globals: Gl2poskey, Gl3poskey, and Gl4poskey, Gl5posk, Gl6posk, and Gl7posk.

When the LPRT_POS or POS_LPRT relations are updated by recent change/verify (RC/V), RC/V will get the next available value of the posdb_key attribute by reading this global parameter (Gl1poskey), and, if necessary, the next six (Gl2poskey, Gl3poskey, Gl4poskey, Gl5posk, Gl6posk, and Gl7posk). The first 0 bit (from low-order to high-order bits) will be the first available posdb_key value, and its position will be its value. If all the bits in this global are turned on, then RC/V will read Gl2poskey in the same order, and so on until a zero bit is found.

In the case of a deletion, RC/V will update this global to indicate the availability of that particular posdb_key value. The availability of the posdb_key value will be indicated by turning the appropriate bit in the global off (setting it to zero).

This global does not appear on a RC/V view.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = 0;

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gl1poskey.values: */
     Gl1poskey is_in {0 thru 0xFFFFFFFF};
end
```

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# Gl1stag

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl1stag | FP | DMshort |

### 1.1 Gl1stag

Global Office Parameter Gl1stag

### 1.2 Description

Gl1stag global parameter is needed for capability j118 two-stage outpulsing for supporting IDDD station-to-station for Taiwan 5EE1(2)2. Gl1stag is used to indicate how many digits outpulsed in the first stage. If two-stage attribute in RLrt_routing relation is set to DBYES, the Gl1stag is to 3, else set to 0. Used by Export.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 3

***AM Initial Value:*** 3

***CMP Initial Value:*** 3

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = 0;

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gl1stag.values: */
     Gl1stag is_in {0 thru 15};
end
```

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# Gl1wlscn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl1wlscn | FP | DMuns10 |

### 1.1 Gl1wlscn

Global Office Parameter Gl1wlscn

### 1.2 Description

This parameter is reserved for future OSPS feature development work. It should be initialized to zero. This parameter may contain the full range of values.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1023

***AM Initial Value:*** 1023

***CMP Initial Value:*** 1023

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = 0;

***Distribution Rules:***

```
/* This global is really group partitioned, but FG cannot  */
/* be specified for global parameters, so FP is specified. */
/* here. The group partitioning should be:                 */
/*      RLdb_gpdus.grp_type = GPD_OSPS                     */
/*      RLdb_gpdus.grp_id = 4                              */
pcrlist = get_gpd_pcrlist (GPD_OSPS, 4);
```

***Import:***

```
"PLgpd_defs.R"
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
/* RULE about Gl1wlscn.values: */

     Gl1wlscn is_in {0 thru 1023};
end
```

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## 3.4 GI2

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# Gl2accskey

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl2accskey | FP | DMoah32 |

### 1.1 Gl2accskey

Global Office Parameter Gl2accskey

### 1.2 Description

This global parameter, in conjunction with four others: Gl1accskey, Gl3accskey, Gl4accskey, and Gl5accskey, is the means by which values of the 'accsdb_key' attribute located in the LPRT_ACCS static relation are to be monitored. 'Monitoring' these values means keeping track of which values are in use and which are available. Gl2accskey is specified in hex.

This global only should be populated on SM's having at least one tuple with servclass = FC_RAFDTA in the RLfc_porttyp relation.

***NOTE:*** This assumes that the OSPS ACCS feature is the only user of the FC_RAFDTA servclass. On those SM's where at least one of the FC_RAFDTA tuples do not exist, this global should contain a value of 0.

At SM initialization, upon the initialization of the LPRT_ACCS relation, this parameter will be updated by ODA to indicate which of the available 'accsdb_key' values are in use. This is done on a 'per' SM basis.

This global parameter will be populated as follows by ODA:

ODA will read each tuple in RLLPRT_ACCS, which contains the information needed to populate the global), and, depending on the VALUE of the accsdb_key attribute, will turn on the bit in this global which represents that value. For example, if the 1st tuple of RLLPRT_ACCS is read, and the value of the accsdb_key attribute is 43, then the 43rd bit (when referenced from the low-order to the high-order bit) will be turned on (set to 1). If the next RLLPRT_ACCS tuple contains an accsdb_key value of 61, then the bit which represents this value, (or the 61st bit (lowest order bit)), will be turned on (set to 1). If the next tuple contains an accsdb_key of 3, then the 3rd bit in the Gl1accskey variable (because that is the global variable which represents values 1-32) would be turned on. If these three tuples were the only tuples in LPRT_ACCS, then, after the Gl2accskey was populated, it would look like this:

```
64.............................33

---------------------------------

|00010000000000000000010000000000|

---------------------------------

   /|\               /|\

    |                 |

(61st bit on)       (43rd bit on)
```

***NOTE:*** The previous is simply an example. The order of the accsdb_key values is not necessarily as suggested, nor is it fixed or sequential. Its only requirement is to be a unique number between the range of 1-160. This is indicated in the RLlprtaccs.P poprules.

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The range of 'accsdb_key' values is 1-160. Each bit in this parameter (Gl2accskey) will represent accsdb_key values of 33-64. For example, the lowest-order bit of this parameter will represent accsdb_key 33. The highest-order bit will represent accsdb_key 64.

As there are only 32 bits in this global, and a possibility of 1-160 accsdb_key values, only the VALUES 33-64 are handled by this global. The other values are handled by the other four globals: Gl1accskey, Gl3accskey, Gl4accskey, and Gl5accskey.

When the LPRT_ACCS relation is updated by RC/V, RC/V will get the next available value of the accsdb_key attribute by first reading the Gl1accskey parameter, and, if necessary, this parameter (Gl2accskey) and the next three (Gl3accskey, Gl4accskey, and Gl5accskey). The first 0 bit (from low-order to high-order bits) will be the first available accsdb_key value and its position will be its value. If all the bits in this global are turned on, then RC/V will read Gl3accskey in the same order, and so on until a zero bit is found.

In the case of a deletion, RC/V will update this global to indicate the availability of that particular accsdb_key value. The availability of the accsdb_key value will be indicated by turning the appropriate bit in the global off (setting it to zero).

This global does NOT appear on a RC/V view.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = 0;

***Distribution Rules:***

```
for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gl2accskey.values: */
     Gl2accskey is_in {0 thru 0xFFFFFFFF};
end
```

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# Gl2levraf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl2levraf | FR | DMushort |

### 1.1 Fullname

Number of RAF members in 2LEVEL announcement logical service group.

### 1.2 Description

This global is used to keep a count of the number of members of the 2LEVEL Logical Service Group (LSG) which are from RAFs, as opposed to from SASs. It is updated every time a RAF member is added or removed from the 2LEVEL LSG.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global is read-only on RC/V view 5.1. It is updated internally from RC/V view 5.5 every time a member is added or removed from the LSG.

***Retrofit Rules:*** None

***Default Rules:*** None

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
for rt_fixedri in RLrt_fixedri
            where (rt_fixedri.ritype == RT_2LEVEL)
        begin
                find == 1 rt_routing in RLrt_routing
                    where (rt_fixedri.ri == rt_routing.route_x)
                when_found
                begin
                        find == 1 rt_trkg in RLrt_trkg
                            where (rt_trkg.grpnum == rt_routing.portgrp.grpnum)
                        when_found
sas_92_1:                   Gl2levraf == rt_trkg.raf_mbrs;
                end
```

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```
end
```

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# Gl2pani

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl2pani | FP | DMbool |

### 1.1 Gl2pani

Global Office Parameter Gl2pani

### 1.2 Description

This global parameter indicates whether two-party should receive ANI or ONI. It has value ranges of

DBYES - - ANI should be received or

DBNO - - ONI should be received.

This parameter should NOT have a default value; it should be set explicitly by the office to either DBYES or DBNO at the time of office data assembly.

Two (2) party line assignments for both conventional ringing and multifrequency ringing MUST require NO MORE than 1 tip party assignment and NO MORE than 1 ring party assignment per port.

***NOTE:*** For two-party lines, RLfc_porttyp.servclass will equal either FC_TWOPTY or FC_2PTY. Two RLfc_line tuples may exist for the port.

If two tuples exist for the port, one RLfc_line.party MUST specify the tip party assignment and the other RLfc_line.party must specify the ring party assignment. ( No restrictions apply if only one RLfc_line.party is assigned to the port. )

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
for modatt in RLmodatt
```

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```
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gl2pani.values: */

        /* no check */ ;
```

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# Gl2poskey

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl2poskey | FP | DMoah32 |

### 1.1 Gl2poskey

Global Office Parameter Gl2poskey

### 1.2 Description

This global parameter, in conjunction with six others: Gl1poskey, Gl3poskey, and Gl4poskey, Gl5posk, Gl6posk, and Gl7posk, is the mean by which values of the 'posdb_key' attribute located in the LPRT_POS and POS_LPRT static relations will be monitored. 'Monitoring' these values means keeping track of which values are in use and which are available. Glposkey is specified in hex.

This global should only be populated on SM's where the osps_sm attribute in RLmodatt is set to DBYES. On those SM's where the osps_sm attribute is set to DBNO, this global should contain a 0 value.

At SM initialization, upon the initialization of the LPRT_POS and POS_LPRT relations, this parameter will be updated by ODA to indicate which of the available 'posdb_key' values are in use. This is done on a 'per' SM basis.

This global parameter will be populated as follows by ODA:

ODA will read each tuple in RLLPRT_POS (or RLPOS_LPRT, as these two relations are dependent upon each other, and both contain the information needed to populate the global), and, depending on the VALUE of the posdb_key attribute, will turn on the bit in this global which represents that value. For example, if the 1st tuple of RLLPRT_POS is read, and the value of the posdb_key attribute is 43, then the 43rd bit (when referenced from the low-order to the high-order bit) will be turned on (set to 1). If, then, the next RLLPRT_POS tuple contains a posdb_key value of 61, then the bit which represents this value, (or the 61st bit) will be turned on (set to 1). If the next tuple is 3, then the 3rd bit in the global Gl1poskey (since that is the global which represents values 1-32) would be turned on. If these three tuples were the only tuples in LPRT_POS, then, after the Gl2poskey was populated, it would look like this:

```
64.............................33

---------------------------------

|00010000000000000000010000000000|

---------------------------------

   /|\               /|\

    |                 |

(61st bit on)       (43rd bit on)
```

***NOTE:*** The previous is simply an example. The order of the posdb_key values is not necessarily as suggested, nor is it fixed or sequential. It's only requirement is to be a number between the range of 1-200. This is indicated in the RLlprt_pos.P poprules as well as in the RLpos_lprt.P poprules.

The range of 'posdb_key' values is 1-200. Each bit in this parameter (Gl2poskey) will represent posdb_key values of 33-64. For example, the lowest-order bit of this parameter will represent posdb_key 33. The highest-order bit will

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represent posdb_key 64.

As there are only 32 bits in this global, and a possibility of 1-200 posdb_key values, only the VALUES 33-64 are handled by this global. The other values are handled by the other globals: Gl1poskey, Gl3poskey, and Gl4poskey, Gl5posk, Gl6posk, and Gl7posk.

When the LPRT_POS or POS_LPRT relations are updated by RC/V, RC/V will get the next available value of the posdb_key attribute by reading first the Gl1poskey parameter, and, if necessary, this parameter (Gl2poskey) and the next 5 (Gl3poskey, and Gl4poskey, Gl5posk, Gl6posk, and Gl7posk). The first 0 bit (from low-order to high-order bits) will be the first available posdb_key value, and its position will be its value. If all the bits in this global are turned on, then RC/V will read Gl2poskey in the same order, and so on until a zero bit is found.

In the case of a deletion, RC/V will update the appropriate of these four globals to indicate the availability of that particular posdb_key value. The availability of the posdb_key value is indicated by turning off (setting to 0) the bit which represents the value of the posdb_key.

This global will NOT appear on a RC/V view.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = 0;

***Distribution Rules:***

```
for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gl2poskey.values: */
      Gl2poskey is_in {0 thru 0xFFFFFFFF};
end
```

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# Gl2spdt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl2spdt | FR | DMmillis |

### 1.1 Gl2spdt

Global Office Parameter Gl2spdt

### 1.2 Description

The Gl2spdt global parameter specifies the maximum limit for partial dial timing during the second stage of a traditional 2-stage international outbound call. At expiration of the timer the call is torn down. Gl2spdt is specified in milliseconds.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20000

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = 20000;

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gl2spdt.values: */
Gl2spdt is_in {5000 thru 25000};
```

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# Gl2spst

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl2spst | FR | DMmillis |

### 1.1 Gl2spst

Global Office Parameter Gl2spst

### 1.2 Description

The Gl2spst global parameter specifies the maximum limit for permanent signal timing during the second stage of a traditional 2-stage international outbound call. At expiration of the timer the call is torn down. Gl2spst is specified in milliseconds.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10000

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = 10000;

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gl2spst.values: */
Gl2spst is_in {5000 thru 25000};
```

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# Gl2wlscn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl2wlscn | FP | DMuns10 |

### 1.1 Gl2wlscn

Global Office Parameter Gl2wlscn

### 1.2 Description

This global parameter is reserved for future OSPS feature development work. It should be initialized to zero. This parameter may contain the full range of values.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1023

***AM Initial Value:*** 1023

***CMP Initial Value:*** 1023

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = 0;

***Distribution Rules:***

```
/* This global is really group partitioned, but FG cannot  */

        /* be specified for global parameters, so FP is specified. */

        /* here. The group partitioning should be:                 */

        /*      RLdb_gpdus.grp_type = GPD_OSPS                     */

        /*      RLdb_gpdus.grp_id = 4                              */

        pcrlist = get_gpd_pcrlist (GPD_OSPS, 4);
```

***Import:*** PLgpd_defs.R

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
```

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```
/* RULE about Gl2wlscn.values: */
      Gl2wlscn is_in {0 thru 1023};
end
```

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## 3.5 GI3

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# Gl3accskey

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl3accskey | FP | DMoah32 |

### 1.1 Gl3accskey

Global Office Parameter Gl3accskey

### 1.2 Description

This parameter, in conjunction with four others: Gl1accskey, Gl2accskey, Gl4accskey, and Gl5accskey, is the means by which values of the 'accsdb_key' attribute located in the LPRT_ACCS static relation are to be monitored. 'Monitoring' these values means keeping track of which values are in use and which are available. Gl3accskey is specified in hex.

This global only should be populated on SM's having at least one tuple with servclass = FC_RAFDTA in the RLfc_porttyp relation.

***NOTE:*** This assumes that the OSPS ACCS feature is the only user of the FC_RAFDTA servclass. On those SM's where at least one of the FC_RAFDTA tuples do not exist, this global should contain a value of 0.

At SM initialization, upon the initialization of the LPRT_ACCS relation, this parameter will be updated by ODA to indicate which of the available 'accsdb_key' values are in use. This is done on a 'per' SM basis.

This global parameter will be populated as follows by ODA:

ODA will read each tuple in RLLPRT_ACCS, which contains the information needed to populate the global), and, depending on the VALUE of the accsdb_key attribute, will turn on the bit in this global which represents that value. For example, if the 1st tuple of RLLPRT_ACCS is read, and the value of the accsdb_key attribute is 68, then the 68th bit (when referenced from the low-order to the high-order bit) will be turned on (set to 1). If the next RLLPRT_ACCS tuple contains an accsdb_key value of 89, then the bit which represents this value, (or the 89th bit (lowest order bit)), will be turned on (set to 1). If the next tuple contains an accsdb_key of 27, then the 27th bit in the Gl1accskey variable (because that is the global variable which represents values 1-32) would be turned on. If the fourth tuple contains an accsdb_key of 45, then the 45th bit in the Gl2accskey variable (because that is the global variable which represents values 33-64) would be turned on. If these four tuples were the only tuples in LPRT_ACCS, then, after the Gl3accskey was populated, it would look like this:

```
96.............................65

---------------------------------

|00000001000000000000000000001000|

---------------------------------

        ^                   ^

        |                   |

(89th bit on)          (68th bit on)
```

***NOTE:*** The above is simply an example. The order of the accsdb_key values is not necessarily as suggested, nor is it fixed or sequential. Its only requirement is to be a unique number between the range of 1-160. This is

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indicated in the RLlprtaccs.P poprules.

The range of 'accsdb_key' values is 1-160. Each bit in this parameter (Gl3accskey) will represent accsdb_key values of 65-96. For example, the lowest-order bit of this parameter will represent accsdb_key 65. The highest-order bit will represent accsdb_key 96.

As there are only 32 bits in this global, and a possibility of 1-160 accsdb_key values, only the VALUES 65-96 are handled by this global. The other values are handled by the other four globals: Gl1accskey, Gl2accskey, Gl4accskey, and Gl5accskey.

When the LPRT_ACCS relation is updated by recent change/verify (RC/V), RC/V will get the next available value of the accsdb_key attribute by first reading the Gl1accskey, Gl2accskey, and Gl3accskey parameters, and, if necessary, this parameter (Gl4accskey) followed by Gl5accskey. The first 0 bit (from low-order to high-order bits) will be the first available accsdb_key value and its position will be its value. If all the bits in this global are turned on, then RC/V will read Gl3accskey in the same order, and so on until a zero bit is found.

In the case of a deletion, RC/V will update this global to indicate the availability of that particular accsdb_key value. The availability of the accsdb_key value will be indicated by turning the appropriate bit in the global off (setting it to zero).

This global does NOT appear on a RC/V view.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gl3accskey.values: */
     Gl3accskey is_in {0 thru 0xFFFFFFFF};
```

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```
end
```

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# Gl3poskey

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl3poskey | FP | DMoah32 |

### 1.1 Gl3poskey

Global Office Parameter Gl3poskey

### 1.2 Description

This parameter, in conjunction with six others: Gl1poskey, Gl2poskey, Gl4poskey, Gl5posk, Gl6posk, and Gl7posk, is the mean by which values of the 'posdb_key' attribute located in the LPRT_POS and POS_LPRT static relations will be monitored. 'Monitoring' these values means keeping track of which values are in use and which are available. Gl3poskey is specified in hex.

This global should only be populated on SM's where the osps_sm attribute in RLmodatt is set to DBYES. On those SM's where the osps_sm attribute is set to DBNO, this global should contain a value of 0.

At SM initialization, upon the initializaton of the LPRT_POS and POS_LPRT relations, this parameter will be updated by ODA to indicate which of the available 'posdb_key' values are in use. This is done on a 'per SM' basis.

This global parameter will be populated as follows by ODA:

ODA will read each tuple in RLLPRT_POS (or RLPOS_LPRT, as these two relations are dependent upon each other, and both contain the information needed to populate the global), and, depending on the VALUE of the posdb_key attribute, will turn on the bit in this global which represents that value. For example, if the 1st tuple of RLLPRT_POS is read, and the value of the posdb_key attribute is 68, then the 68th bit (when referenced from the low-order to the high-order bit) will be turned on (set to 1). If, then, the next RLLPRT_POS tuple contains a posdb_key value of 89, then the bit which represents this value, (or the 89th bit) will be turned on (set to 1). If the next tuple is 27, then the 27th bit in the global Gl1poskey (since that is the global which represents values 1-32) would be turned on. If the fourth tuple had a posdb_key of 45, then the 45th bit in Gl2poskey would be turned on (set to 1), since that is the global which represents posdb_key values of 33-64. If these four tuples were the only tuples in LPRT_POS, then, after the Gl3poskey was populated, it would look like this:

```
   96.............................65
   --------------------------------
   |00000001000000000000000000001000|
   --------------------------------
            ^                   ^
            |                   |
  (89th bit on)           (68th bit on)
```

***NOTE:*** The above is simply an example. The order of the posdb_key values is not necessarily as suggested, nor is it fixed or sequential. It's only requirement is to be a number between the range of 1-200. This is indicated in the RLlprt_pos.P poprules as well as in the RLpos_lprt.P poprules.

The range of 'posdb_key' values is 1-200. Each bit in this parameter (Gl3poskey) will represent posdb_key values of 65-96. For example, the lowest-order bit of this parameter will represent posdb_key 65. The highest-order bit will represent posdb_key 96.

As there are only 32 bits in this global, and a possiblity of 1-200 posdb_key values, only the VALUES 65-96 are handled by this global. The other values are handled by the other globals: Gl1poskey, Gl2poskey, and Gl4poskey, Gl5posk, Gl6posk, and Gl7posk.

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When the LPRT_POS or POS_LPRT relations are updated by recent change/verify (RC/V), RC/V will get the next available value of the posdb_key attribute by reading first the Gl1poskey parameter, and, if necessary, the Gl2poskey, followed by this parameter (Gl3poskey), Gl4poskey, Gl5posk, Gl6posk, and Gl7posk. The first 0 bit (from low-order to high-order bits) will be the first available posdb_key value, and its position will be its value. If all the bits in this global are turned on, then RC/V will read Gl2poskey in the same order, and so on until a zero bit is found.

In the case of a deletion, RC/V will update the appropriate of these four globals to indicate the availability of that particular posdb_key value. The availability of the posdb_key value is indicated by turning off (setting to 0) the bit which represents the value of the posdb_key.

This global will NOT appear on a RC/V view.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gl3poskey.values: */
     Gl3poskey is_in {0 thru 0xFFFFFFFF};
end
```

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## 3.6 GI4

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# Gl4accskey

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl4accskey | FP | DMoah32 |

### 1.1 Gl4accskey

Global Office Parameter Gl4accskey

### 1.2 Description

This parameter, in conjunction with four others: Gl1accskey, Gl2accskey, Gl3accskey, and Gl5accskey, is the means by which values of the 'accsdb_key' attribute located in the LPRT_ACCS static relation are to be monitored. 'Monitoring' these values means keeping track of which values are in use and which are available. Gl4accskey is specified in hex.

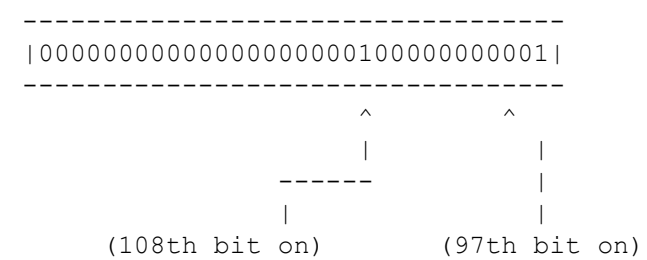
This global only should be populated on SM's having at least one tuple with servclass = FC_RAFDTA in the RLfc_porttyp relation.

***NOTE:*** This assumes that the OSPS ACCS feature is the only user of the FC_RAFDTA servclass. On those SM's where at least one of the FC_RAFDTA tuples do not exist, this global should contain a value of 0.

At SM initialization, upon the initialization of the LPRT_ACCS relation, this parameter will be updated by ODA to indicate which of the available 'accsdb_key' values are in use. This is done on a 'per' SM basis.

This global parameter will be populated as follows by ODA:

ODA will read each tuple in RLLPRT_ACCS, which contains the information needed to populate the global), and, depending on the VALUE of the accsdb_key attribute, will turn on the bit in this global which represents that value. For example, if the 1st tuple of RLLPRT_ACCS is read, and the value of the accsdb_key attribute is 68, then the 68th bit of the Gl3accskey variable (because that is the global variable which represents values 65-96) would be turned on (set to 1). If the next RLLPRT_ACCS tuple contains an accsdb_key value of 97, then the bit which represents this value, (or the 97th bit (lowest order bit)) of this global (Gl4accskey), will be turned on (set to 1). If the next LPRT_ACCS contains an accsdb_key of 108, then the 108th bit of this global (Gl4accskey) would be turned on. If the fourth tuple contains an accsdb_key of 27, the 27th bit in the Gl1accskey variable (because that is the global variable which represents values 1-32) would be turned on. If these four tuples were the only tuples in LPRT_ACCS, then, after the Gl4accskey was populated, it would look like this:




***NOTE:*** The above is simply an example. The order of the accsdb_key values is not necessarily as suggested, nor is it fixed or sequential. Its only requirement is to be a unique number between the range of 1-160. This is indicated in the RLlprtaccs.P poprules.

The range of 'accsdb_key' values is 1-160. Each bit in this parameter (Gl4accskey) will represent accsdb_key values of 97-128. For example, the lowest-order bit of this parameter will represent accsdb_key 97. The

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highest-order bit will represent accsdb_key 128.

As there are only 32 bits in this global, and a possibility of 1-160 accsdb_key values, only the VALUES 97-128 are handled by this global. The other values are handled by the other four globals: Gl1accskey, Gl2accskey, Gl3accskey, and Gl5accskey.

When the LPRT_ACCS relation is updated by recent change/verify (RC/V), RC/V will get the next available value of the accsdb_key attribute by first reading the Gl1accskey, Gl2accskey, Gl3accskey parameters, and, if necessary, this parameter (Gl4accskey), followed by Gl5accskey. The first 0 bit (from low-order to high-order bits) will be the first available accsdb_key value and its position will be its value. If all the bits in this global are turned on, then RC/V will read Gl4accskey in the same order, and so on until a zero bit is found.

In the case of a deletion, RC/V will update this global to indicate the availability of that particular accsdb_key value. The availability of the accsdb_key value will be indicated by turning the appropriate bit in the global off (setting it to zero).

This global does NOT appear on a RC/V view.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gl4accskey.values: */
     Gl4accskey is_in {0 thru 0xFFFFFFFF};
end
```

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# Gl4poskey

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl4poskey | FP | DMoah32 |

### 1.1 Gl4poskey

Global Office Parameter Gl4poskey

### 1.2 Description

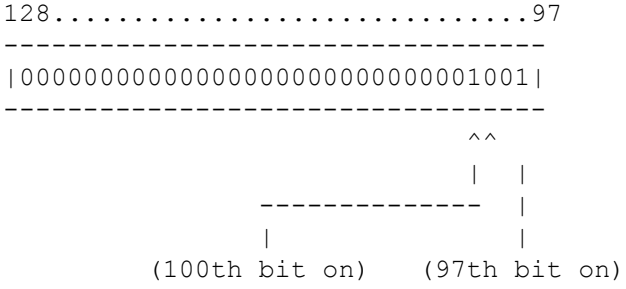
This parameter, in conjunction with six others: Gl1poskey, Gl2poskey, Gl3poskey, Gl5posk, Gl6posk, and Gl7posk is the mean by which values of the 'posdb_key' attribute located in the LPRT_POS and POS_LPRT static relations will be monitored. 'Monitoring' these values means keeping track of which values are in use and which are available. Gl4poskey is specified in hex.

This global should only be populated on SM's where the osps_sm attribute in RLmodatt is set to DBYES. On those SM's where the osps_sm attribute is set to DBNO, this global should contain a 0 value.

At SM initialization, upon the initializaton of the LPRT_POS and POS_LPRT relations, this parameter will be updated by ODA to indicate which of the available 'posdb_key' values are in use. This is done on a 'per SM' basis.

This global parameter will be populated as follows by ODA:

ODA will read each tuple in RLLPRT_POS (or RLPOS_LPRT, as these two relations are dependent upon each other, and both contain the information needed to populate the global), and, depending on the VALUE of the posdb_key attribute, will turn on the bit in this global which represents that value. For example, if the 1st tuple of RLLPRT_POS is read, and the value of the posdb_key attribute is 68, then the 68th bit of the Gl3poskey global (since that is the global which represents posdb_key values 65-96) would be turned on (set to 1). If, then, the next RLLPRT_POS tuple contains a posdb_key value of 97, then the bit which represents this value, (or the 97th bit) will be turned on (set to 1). If the next tuple is 100, then the 100th bit in this global (Gl4poskey) would be turned on. If the fourth tuple had a posdb_key of 4, then the 4th bit in Gl1poskey would be turned on (set to 1), since that is the global which represents posdb_key values of 1-32. If these four tuples were the only tuples in LPRT_POS, then, after the Gl4poskey was populated, it would look like this:




***NOTE:*** The above is simply an example. The order of the posdb_key values is not necessarily as suggested, nor is it fixed or sequential. It's only requirement is to be a number between the range of 1-200. This is indicated in the RLlprt_pos.P poprules as well as in the RLpos_lprt.P poprules.

The range of 'posdb_key' values is 1-200. Each bit in this parameter (Gl4poskey) will represent posdb_key values of 97-128. For example, the lowest-order bit of this parameter will represent posdb_key 97. The highest-order bit will represent posdb_key 128.

As there are only 32 bits in this global, and a possiblity of 1-200 posdb_key values, only the VALUES 97-128 are

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handled by this global. The other values are handled by the other six globals: Gl1poskey, Gl2poskey, Gl3poskey, Gl5posk, Gl6posk, and Gl7posk.

When the LPRT_POS or POS_LPRT relations are updated by recent change/verify (RC/V), RC/V will get the next available value of the posdb_key attribute by reading first the Gl1poskey parameter, and, if necessary, the Gl2poskey, followed by the Gl3poskey parameter, the Gl4poskey parameter, the Gl5posk parameter, the Gl6posk parameter, and finally the Gl7posk parameter. The first 0 bit (from low-order to high-order bits) will be the first available posdb_key value, and its position will be its value. If all the bits in this global are turned on, then RC/V will read Gl2poskey in the same order, and so on until a zero bit is found.

In the case of a deletion, RC/V will update the appropriate of these four globals to indicate the availability of that particular posdb_key value. The availability of the posdb_key value is indicated by turning off (setting to 0) the bit which represents the value of the posdb_key.

This global will NOT appear on a RC/V view.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gl4poskey.values: */
     Gl4poskey is_in {0 thru 0xFFFFFFFF};
end
```

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## 3.7 GI5

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# Gl5accskey

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl5accskey | FP | DMoah32 |

### 1.1 Gl5accskey

Global Office Parameter Gl5accskey

### 1.2 Description

This parameter, in conjunction with four others: Gl1accskey, Gl2accskey, Gl3accskey, and Gl4accskey, is the means by which values of the 'accsdb_key' attribute located in the LPRT_ACCS static relation are to be monitored. 'Monitoring' these values means keeping track of which values are in use and which are available. Gl5accskey is specified in hex.

This global only should be populated on SM's having at least one tuple with servclass = FC_RAFDTA in the RLfc_porttyp relation.

***NOTE:*** This assumes that the OSPS ACCS feature is the only user of the FC_RAFDTA servclass. On those SM's where at least one of the FC_RAFDTA tuples do not exist, this global should contain a value of 0.

At SM initialization, upon the initialization of the LPRT_ACCS relation, this parameter will be updated by ODA to indicate which of the available 'accsdb_key' values are in use. This is done on a 'per' SM basis.

This global parameter will be populated as follows by ODA:

ODA will read each tuple in RLLPRT_ACCS, which contains the information needed to populate the global), and, depending on the VALUE of the accsdb_key attribute, will turn on the bit in this global which represents that value. For example, if the 1st tuple of RLLPRT_ACCS is read, and the value of the accsdb_key attribute is 68, then the 68th bit of the Gl3accskey variable (because that is the global variable which represents values 65-96) would be turned on (set to 1). If the next RLLPRT_ACCS tuple contains an accsdb_key value of 130, then the bit which represents this value, (or the 130th bit) of this global (Gl5accskey), will be turned on (set to 1). If the next LPRT_ACCS contains an accsdb_key of 156, then the 156th bit of this global (Gl5accskey) would be turned on. If the fourth tuple contains an accsdb_key of 27, the 27th bit in the Gl1accskey variable (because that is the global variable which represents values 1-32) would be turned on. If these four tuples were the only tuples in LPRT_ACCS then, after the Gl5accskey was populated, it would look like this:

```
160.............................129
---------------------------------
|00001000000000000000000000000010|
---------------------------------
     ^                           ^
     |                           |
 (156th bit on)              (130th bit on)
```

***NOTE:*** The above is simply an example. The order of the accsdb_key values is not necessarily as suggested, nor is it fixed or sequential. Its only requirement is to be a unique number between the range of 1-160. This is indicated in the RLlprtaccs.P poprules.

The range of 'accsdb_key' values is 1-160. Each bit in this parameter (Gl5accskey) will represent accsdb_key values of 129-160. For example, the lowest-order bit of this parameter will represent accsdb_key 129. The highest-order bit will represent accsdb_key 160.

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As there are only 32 bits in this global, and a possibility of 1-160 accsdb_key values, only the VALUES 129-160 are handled by this global. The other values are handled by the other four globals: Gl1accskey, Gl2accskey, Gl3accskey, and Gl4accskey.

When the LPRT_ACCS relation is updated by recent change/verify (RC/V), RC/V will get the next available value of the accsdb_key attribute by first reading the Gl1accskey, Gl2accskey, Gl3accskey, Gl4accskey parameters, and, finally this parameter (Gl5accskey). The first 0 bit (from low-order to high-order bits) will be the first available accsdb_key value and its position will be its value. If all the bits in this global are turned on, and all of the bits in Gl1accskey, Gl2accskey, Gl3accskey, and Gl4accskey are turned on, no new tuples can be added to LPRT_ACCS. This will be the case until a zero bit in any of the parameters is found.

In the case of a deletion, RC/V will update this global to indicate the availability of that particular accsdb_key value. The availability of the accsdb_key value will be indicated by turning the appropriate bit in the global off (setting it to zero).

This global does NOT appear on a RC/V view.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gl5accskey.values: */
      Gl5accskey is_in {0 thru 0xFFFFFFFF};
end
```

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# Gl5posk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl5posk | FP | DMoah32 |

### 1.1 Gl5posk

Global Office Parameter Gl5posk

### 1.2 Description

This parameter, in conjunction with six others: Gl1poskey, Gl2poskey, Gl3poskey, Gl4poskey, Gl6posk, and Gl7posk, is used to monitor the values of the 'posdb_key' attribute located in the LPRT_POS and POS_LPRT static relations. Refer to the population rules for Gl1poskey through Gl4poskey for a detailed description of its usage pattern. Gl5posk is specified in hex.

Gl5posk is used to bit-map the posdb_key values 129 through 160 as indicated in the 32-bit word below:

```
160.............................129
 ---------------------------------
 |00000000000000000000000000000000|
 ---------------------------------
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
```

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```
/* RULE about Gl5posk.values: */
     Gl5posk is_in {0 thru 0xFFFFFFFF};
end
```

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## 3.8 GI6

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# Gl64k_flag

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl64k_flag | FP | DMbool |

### 1.1 Gl64k_flag

Global Office Parameter Gl64k_flag

### 1.2 Description

This is a flag indicating if the T1 links between the RSM and its host and between the RSM and other RSMs in a cluster support 64kb/s clear channel. It is set to DBYES if the dfimode is SMDFB8ZS or SMDFRZBTSI for all the RSM-HOST and RSM-RSM DFIs and T1FAC facilities; otherwise, it is set to DBNO. An RSM always has tuple(s) defined in circuit data, RLcktdata.G, with circuit type PCRDFI for DFIs terminating links between the RSM and its Host SM. In addition to circuit type PCRDFI, if the RSM is a member of a RSM cluster, it will have RLcktdata.G tuple(s) defined with circuit type PCCDFI for DFIs terminating links between RSMs. If an RSM is equipped with a DLTU2, then the RDFI-2s and CDFI-2s will also have T1FAC and CFAC tuples associated with them. In this case, the facilities' transmission mode is contained in the individual facility tuples. The Gl64k_flag is set to DBYES for this RSM, if all the dfimode attributes of PCRDFIs and PCCDFIs (if they exist) or dfimode attributes of PCT1FACs and PCCFACs (if DFI-2s) are SMDFB8ZS or SMDFRZBTSI, otherwise, Gl64k_flag is set to DBNO.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** ODA should calculate the global parameter value as specified in the description above for new offices and recover value over retrofit for the the existing ones.

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gl64k_flag.values: */
```

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# Gl6accskey

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl6accskey | FP | DMoah32 |

### 1.1 Gl6accskey

Global Office Parameter Gl6accskey

### 1.2 Description

Gl6accskey is specified in hex. This parameter, in conjunction with seven others: Gl1accskey-Gl5accskey, Gl7accskey, Gl8accskey are a bitmap that keeps track of the 'accsdb_key' values located in the RLLPRT_ACCS static that are used.

This global only should be populated on SM's having at least one tuple with RLfc_porttyp.servclass = FC_RAFDTA.

ODA should populate the Gl[1-8]accskey values setting bits sequentially corresponding from [1-(# tuples in RLLPRTACCS)]. See RLlprtaccs.R for more information.

Recent change/verify (RC/V) will populate a zero in the corresponding accsdb_key value when a tuple is deleted. If at least 192 tuples exist in RLLPRTACCS initially and the tuples with RLLPRTACCS accsdb_key value of [162-191] are deleted, then only the 32nd bit and 1st bit will be left on.

Gl6accskey would look like this:

```
 1                               1
 9                               6
 2.............................1
----------------------------------
|10000000000000000000000000000001|
----------------------------------
 ^                              ^
 |                              |
(32nd bit on)                  (1st bit on)
high order                     low order
```

The range of 'accsdb_key' values are 1-256. Each bit in this parameter (Gl6accskey) will represent accsdb_key values of 161-192.

Other accsdb_key values besides [161-192] are handled by the other globals (Gl[0-5,7,8]accskey).

When a new RLLPRTACCS tuple is inserted by recent change/verify (RC/V), RC/V will find the next available value of the accsdb_key attribute by starting with Gl1accskey parameter and looking for a first 0 starting with the low-order bit. RC/V will step through each of Gl[1-8]accskey globals in the same way until a 0 bit is found.

This global does NOT appear on a RC/V view.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

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***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gl6accskey.values: */
Gl6accskey is_in {0 thru 0xFFFFFFFF};

end
```

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# Gl6posk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl6posk | FP | DMoah32 |

### 1.1 Gl6posk

Global Office Parameter Gl6posk

### 1.2 Description

This parameter, in conjunction with six others: Gl1poskey, Gl2poskey, Gl3poskey, Gl4poskey, Gl5posk, and Gl7posk, is used to monitor the values of the 'posdb_key' attribute located in the LPRT_POS and POS_LPRT static relations. Refer to the population rules for Gl1poskey through Gl4poskey for a detailed description of its usage pattern. Gl6posk is specified in hex.

Gl6posk is used to bit-map the posdb_key values 161 through 192 as indicated in the 32-bit word below:

```
192.............................161
 ---------------------------------
 |00000000000000000000000000000000|
 ---------------------------------
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
```

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```
/* RULE about Gl6posk.values: */
Gl6posk is_in {0 thru 0xFFFFFFFF};
end
```

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## 3.9 GI7

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# Gl7accskey

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl7accskey | FP | DMoah32 |

### 1.1 Gl7accskey

Global Office Parameter Gl7accskey

### 1.2 Description

Gl7accskey is specified in hex. This parameter, in conjunction with seven others: Gl1accskey-Gl6accskey, Gl8accskey are a bitmap that keeps track of the 'accsdb_key' values located in the RLLPRTACCS that are used.

This global should be populated on SM's having at least one tuple with RLfc_porttyp.servclass = FC_RAFDTA in the RLfc_porttyp relation.

ODA should populate the Gl[1-8]accskey values setting bits sequentially corresponding from [1-(# tuples in RLLPRTACCS)].

Recent change/verify (RC/V) will populate a zero in the corresponding accsdbkey value when a tuple is deleted. For example, if at least 224 tuples exist in RLLPRTACCS initially and the tuples with RLLPRTACCS accsdb_key value of [194-223] are deleted, then only the 1st and 32nd bits will be left on.

Gl7accskey would then look like this:

```
 2                                1
 2                                9
 4................................3
----------------------------------
|10000000000000000000000000000001|
----------------------------------
 ^                               ^
 |                                |
(32nd bit on)                    (1st bit on)
high order                       low order
```

The range of 'accsdb_key' values are 1-256. Each bit in this parameter (Gl7accskey) will represent accsdb_key values of 193-224.

Other accsdb_key values besides [193-224] are handled by the other globals (Gl[0-6,8]accskey).

When a new RLLPRTACCS tuple is inserted by recent change/verify (RC/V), RC/V will get the next available value of the accsdb_key attribute by starting with Gl1accskey parameter and looking for a first 0 starting with the low-order bit. RC/V will step through each of Gl[1-8]accskey globals the same way until a 0 bit is found.

This global does NOT appear on a RC/V view.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

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***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then

begin
/* RULE about Gl7accskey.values: */
     Gl7accskey is_in {0 thru 0xFFFFFFFF};
end
```

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# Gl7posk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl7posk | FP | DMoah32 |

### 1.1 Gl7posk

Global Office Parameter Gl7posk

### 1.2 Description

This parameter, in conjunction with six others: Gl1poskey, Gl2poskey, Gl3poskey, Gl4poskey, Gl5posk, and Gl6posk, is used to monitor the values of the 'posdb_key' attribute located in the LPRT_POS and POS_LPRT static relations. Refer to the population rules for Gl1poskey through Gl4poskey for a detailed description of its usage pattern. Gl7posk is specified in hex.

Gl7posk is used to bit-map the posdb_key values 193 through 200 as indicated in the following 32-bit word:

```
                        200......193
-----------------------------------
|00000000000000000000000000000000|
-----------------------------------
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
```

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```
/* RULE about Gl7posk.values: */
     Gl7posk is_in {0 thru 0xFF};
end
```

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## 3.10 GI8

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# Gl800_das

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl800_das | FR | DMda_tree |

### 1.1 Gl800_das

Global Office Parameter Gl800_das

### 1.2 Description

This parameter is used as the digit analysis selector (DAS) for retranslating service switching point (SSP) 800 calls after querying the external service control point (SCP) database if the originators DAS is not desired. At a SSP office a query is made to an external SCP database to obtain routing information necessary to complete the call. This parameter points to RLda_digstrt, and is used to indicate where translations should begin in digit analysis for routing numbers which are returned from the SCP database. The default value 0 indicates no SSP800 DAS to be used for retranslating returned routing numbers. The originators DAS is used.

***SUPPORTED BY:*** RC, ODA, and ODBE

***ODA DEFAULT:*** 0

***RC DEFAULT:*** 0

***RANGE:*** 0 - 99

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** This data was previously stored in the global parameter Glim15dummy. During a retrofit to 5e9, the data in global parameter Gl15dummy must be carried over and stored in this parameter.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gl800_das.values: */
```

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```
Gl800_das is_in {0 thru 99};
```

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# Gl8accskey

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl8accskey | FP | DMoah32 |

### 1.1 Gl8accskey

Global Office Parameter Gl8accskey

### 1.2 Description

Gl8accskey is specified in hex. This parameter, in conjunction with seven others: Gl1accskey-Gl7accskey, is a bitmap that keeps track of the 'accsdb_key' values located in the RLLPRTACCS that are used.

This global only should be populated on SM's having at least one tuple with RLfcport_typ.servclass = FC_RAFDTA.

ODA should populate the Gl[1-8]accskey values setting bits sequentially corresponding from [1-(# tuples in RLLPRTACCS)]. See RLlprtaccs.R for more information.

Recent change/verify (RC/V) populates a zero in the corresponding accsdbkey value when a tuple is deleted.

For example, if 256 tuples exist in RLLPRTACCS initially and the tuples with RLLPRTACCS accsdb_key value of [226-255] are deleted, then only the 1st and 32nd bits should be left on.

Gl8accskey would look like this:

```
 2                                2
 5                                2
 6................................5
-----------------------------------
|10000000000000000000000000000001|
-----------------------------------
 ^                               ^
 |                                |
(32nd bit on)                    (1st bit on)
high order                       low order
```

The range of 'accsdb_key' values are 1-256. Each bit in this parameter (Gl8accskey) will represent accsdb_key values of 225-256.

Other accsdb_key values besides [225-256] are handled by the other globals (Gl[0-7]accskey).

When a new RLLPRTACCS tuple is inserted by recent change/verify (RC/V), RC/V will find the next available value of the accsdb_key attribute by starting with Gl1accskey parameter and looking for a first 0 starting with the low-order bit in each parameter. RC/V will step through each of Gl[1-8]accskey globals until a 0 bit is found.

This global does NOT appear on a RC/V view.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

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***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then

begin
/* RULE about Gl8accskey.values: */
     Gl8accskey is_in {0 thru 0xFFFFFFFF};
end
```

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# Gl8hrfq

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl8hrfq | FR | DMshort |

### 1.1 Gl8hrfq

Global Office Parameter Gl8hrfq

### 1.2 Description

This parameter is used to specify the scanning frequency (in hours) associated with the 8-Hour Passed MDR capability (h541). The scanning frequency specifies how often the call records are scanned looking for calls that have the 8-hour passed MDR capability assigned and have been in progress for at least 8 hours. The start time for the call record scan is specified by office parameter, Gl8hrst. The 8-hour passed MDR capability is assigned by setting the 'hr8_passed' attribute in the MDR group relation, RLmdr_gp. If the MDR capability is not assigned for an office, then updating this parameter will be insignificant.

For example, if the scanning frequency, Gl8hrfq, is set to 6 and the start time, Gl8hrst, is set to 7, then the call record scan will occur at 7am, 1pm, 7pm, and 1am.

The 8-hour passed MDR capability is administrated by the following static data components: Gl8hrst, Gl8hrfq, Gl8hrsc and RLmdr_gp.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 8

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 8;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gl8hrfq.values: */

Gl8hrfq is_in {2, 4, 6, 8};
```

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# Gl8hrsc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl8hrsc | FR | DMbool |

### 1.1 Gl8hrsc

Global Office Parameter Gl8hrsc

### 1.2 Description

This parameter is used to specify whether the 8-hour passed MDR scanning software can be executed or not for the 8-Hour Passed MDR capability (h541). The 8-hour passed MDR capability is assigned by setting the 'hr8_passed' attribute in the MDR group relation, RLmdr_gp.

If this parameter is DBYES, then the scanning software will be executed periodically throughout a day (at times specified by the office parameters, Gl8hrfq and Gl8hrst). If there are calls that have been in progress for at least eight hours and have the 8-hour passed MDR capability assigned, the 8-hour passed MDR records will be generated for those calls.

If this parameter is DBNO, then the scanning software will not be executed, the 8-hour passed MDR records will not be generated regardless the duration of the calls or the assignment of the 8-hour passed MDR capability.

If there is no 8-hour passed MDR capability assigned in the office, and this parameter is set to DBYES, then the scanning software will be executed, and real time will be wasted since no 8-hour passed MDR records will be generated.

If there is 8-hour passed MDR capability assigned in the office, but this parameter is set to DBNO, then the scanning software will not be executed. Therefore no 8-hour passed MDR records will be generated.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

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***Checks:***

```
/* RULE about Gl8hrsc.values: */

        /* no check */ ;
```

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# Gl8hrst

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl8hrst | FR | DMshort |

### 1.1 Gl8hrst

Global Office Parameter Gl8hrst

### 1.2 Description

This parameter is used to specify the starting time (in hours past midnight) associated with the 8-Hour Passed MDR capability (h541). The start time specifies when the scan of call records should start looking for calls that have the 8-hour passed MDR capability assigned and have been in progress for at least 8 hours. The same call record scan will occur every 2, 4, 6 or 8 hours based on the value of office parameter, Gl8hrfq. The 8-hour passed MDR capability is assigned by setting the 'hr8_passed' attribute in the MDR group relation, RLmdr_gp. If the MDR capability is not assigned for an office, then updating this parameter will be insignificant.

For example, if Gl8hrst is set to 13 then the starting time will be 1 PM and the first scan for 8-hour passed MDR records to generate will occur at 1 PM and then every 2, 4, 6, or 8 hours, based on Gl8hrfq. If Gl8hrst is set to 2, then the starting time will be 2 AM.

The 8-hour passed MDR capability is administrated by the following static data components: Gl8hrst, Gl8hrfq, Gl8hrsc and RLmdr_gp.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 1;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gl8hrst.values: */
```

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```
Gl8hrst is_in {0 thru 23};
```

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## 3.11 GI9

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# Gl900fw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl900fw | FP | DMhex32 |

### 1.1 Fullname

Feature Activation Word for OSPS900 Services defines: "db/DMparty.h"

### 1.2 Description

This global is used to activate processing OSPS 900 calls. It has the following meaning: if 0, OSPS900 processing is off; if 1, processing is on; and if greater than 1, then only OSPS900 calls arriving on a designated trunk receive treatment. When Gl900fw is greater than 1, the value is cast to the domain DMGPORT, which is the port number and module of a test trunk over which calls should receive OSPS900 treatment. Gl900fw is used as the key into the relation RLgroup_port to retrieve the trunk group and member number of the designated trunk.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA only supports the values 0(N) and 1(Y). RC supports N(0), Y(1), or T(what is stored is the trunk group and member number of a trunk for testing); the default is 0(N).

***Retrofit Rules:*** On retrofit, if the value is neither 0 or 1, reset to 0.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot   */
/* be specified for global parameters, so FP is specified. */
/* here. The group partitioning should be:                 */
/*      RLdb_gpdus.grp_type = GPD_OSPS                     */
/*      RLdb_gpdus.grp_id = 4                              */

pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***

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```
if (current_pcr is_in sm_all) then

begin
     /* RULE about Gl900fw.values: */
     Gl900fw is_in {0 thru 0xFFFFFFFF};

     /* RULE about Gl900fw: */

     /*
      * There must be a check that if Gl900fw is greater than 1, there
      * must exist in RLgroup_port a tuple in which group_port.port equals
      * Gl900fw.
      */

      if (Gl900fw>1) then
      begin
           find == 1 pggpmap in RLpggpmap
           where (pggpmap.port.member == Gl900fw
                 && pggpmap.port.module == current_pcr
                 && pggpmap.party == $FCP_TRUNK)
           when_found
           begin
                find == 1 group_port in RLgroup_port
                   where (group_port.portgrp.grpnum == pggpmap.portgrp.grpnum
                     && group_port.portgrp.grptype == pggpmap.portgrp.grptype
                     && group_port.member == pggpmap.member)
                when_found
                begin
                     group_port.party == $FCP_TRUNK;
                     find >= 1 fc_oprtk in RLfc_oprtk
                     where (fc_oprtk.tgroup == group_port.portgrp.grpnum);
                end
           end
      end
end
```

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# Gl911dtim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gl911dtim | FP | DMlong |

### 1.1 Gl911dtim

Global Office Parameter Gl911dtim

### 1.2 Description

This parameter is used to define the timing delay for extra digits after dialing 911 or equivalent three digit code.

The value is entered in by the user in seconds and stored in milliseconds as follows:

| Entered As: | Stored As: | Meaning |
|---|---|---|
| 0 | 0 | No timing dealy (delay) |
| 1 | 1000 | Delay 1-2 seconds |
| 2 | 2000 | Delay 2-3 seconds |
| 3 | 3000 | Delay 3-4 seconds |

ODA should initialize the parameter to 0 for new offices.

There are no crosschecks defined.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** This data was previously stored in the global parameter Glim2dummy. During a retrofit to 5e9, the data in global parameter Glim2dummy must be carried over and stored in this parameter.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

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```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gl911dtim.values: */
Gl911dtim is_in {0, 1000, 2000, 3000};

end
```

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## 3.12 Gla

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# Gla1zone

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gla1zone | FR | DMaltzone |

### 1.1 Gla1zone

Global Office Parameter Gla1zone

### 1.2 Description

This parameter indicates the number of hours difference between the alternate 1 time zone and the OSPS system time (primary time).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ALTZ0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Default Rules:***
```
default = ALTZ0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Gla1zone.values: */

Gla1zone is_in {ALTZN2, ALTZN1, ALTZ0, ALTZ1, ALTZ2};
```

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# Gla2zone

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gla2zone | FR | DMaltzone |

### 1.1 Gla2zone

Global Office Parameter Gla2zone

### 1.2 Description

This parameter indicates the number of hours difference between the alternate 2 time zone and the OSPS system time (primary time).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ALTZ0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = ALTZ0;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Gla2zone.values: */

Gla2zone is_in {ALTZN2, ALTZN1, ALTZ0, ALTZ1, ALTZ2};
```

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# Glaad2_mode

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaad2_mode | FP | DMaadmod |

### 1.1 Glaad2_mode

Global office parameter Glaad2_mode

### 1.2 Description

In Saudi Arabian projects 'TMAAD21' must be set. If 'TMAAD2' is set in Glcatltype the Glaad2_mode must be recent changeable, else TMNO_AAD2 should be set. Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** TMNO_AAD2

***AM Initial Value:*** TMNO_AAD2

***CMP Initial Value:*** TMNO_AAD2

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
/* RULE about Glaad2_mode.values: */
Glaad2_mode is_in {TMNO_AAD2, TMAAD20, TMAAD21, TMAAD22};
end
```

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# Glaaparutm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaaparutm | FR | DMuns11 |

### 1.1 Glaaparutm

Global Office Parameter Glaaparutm

### 1.2 Description

This AATLSOS - Automated Access Prompting using CPDL Interface timing parameter is used after the OSPS has recognized that the CDSU has gone off-hook on the external ARU trunk selected by OSPS for communication between the back party and the CDSU. The valid range for this parameter is 10 to 1800 seconds (30 minutes) in increments of 10 seconds, with a default of 900 seconds (15 minutes).

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 900

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e10.1, this parameter must be set to the value in Gloff1{1:11}.

***Default Rules:***
```
default = 900;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glaaparutm.values: */

Glaaparutm is_in {10 thru 1800};
```

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# Glaapftrmt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaapftrmt | FR | DMaapftmt |

### 1.1 Glaapftrmt

Global Office Parameter Glaapftrmt

### 1.2 Description

This AATLSOS - Automated Access Prompting using CPDL Interface parameter specifies the treatment to be applied to a call when the second forward number prompt or re-prompt fails the digit analysis check for the AATOS calls, including the 1-800-CALLATT Using CPDL Interface card billed calls. The valid values for this parameter are "operator" and "announcement", with "operator" being the default value.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** AAPFOPR

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e10.1, this parameter must be set to the value in Gloff1{0}.

***Default Rules:***
```
default = AAPFOPR;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* no checks */
```

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# Glaapfwdtm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaapfwdtm | FR | DMuns7 |

### 1.1 Glaapfwdtm

Global Office Parameter Glaapfwdtm

### 1.2 Description

This AATLSOS - Automated Access Prompting using CPDL Interface timing parameter is used after 10 or 11 digit NANP forward numbers in the form [0/1]+NPA-NXX-XXXX are entered at the forward number prompt or re-prompt. The valid range for this parameter is 0 to 80 tenths of a second in increments of tenths of a second, with a default of 50 tenths of a second (5 seconds).

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 50

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e10.1, this parameter must be set to the value in Gloff1{12:18}.

***Default Rules:***
```
default = 50;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glaapfwdtm.values: */

Glaapfwdtm is_in {0 thru 80};
```

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# Glaappndtm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaappndtm | FR | DMuns7 |

### 1.1 Glaappndtm

Global Office Parameter Glaappndtm

### 1.2 Description

This AATLSOS - Automated Access Prompting using CPDL Interface timing parameter is used after the "#" sign has been entered following the forward number prompt or re-prompt. The valid range for this parameter is 0 - 80 tenths of a second, in increments of tenths of seconds, with a default of 20 tenths of a second (2 seconds).

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e10.1, this parameter must be set to the value in Gloff1{19:25}.

***Default Rules:***
```
default = 20;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glaappndtm.values: */
Glaappndtm is_in {0 thru 80};
```

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# Glabrcscnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glabrcscnt | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter BRCS Count

### 1.2 Description:

The Glabrcscnt global parameter contains an SM's count of analog lines that have BRCS features. Include are lines that have either terminal or DN features. Its value is maintained over all initializations and updated via trigger functions as analog lines with BRCS features are inserted or deleted. It is also updated when an existing analog line is assigned its first BRCS feature and the last BRCS feature is removed from an analog line.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as analog lines are inserted or deleted or features are assigned or removed. Its value can increase and decrease.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glabrcscnt.values: */
```

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```
Glabrcscnt is_in {0 thru 28800};

/* RULE about Glabrcscnt: */

        /* Glabrcscnt can be updated by trigger */

/* runslow added due to linear search of FC_LINE and
   excessive cpu usage */
if (runslow) then
begin

                Glabrcscnt == count { fc_line in RLfc_line
                      where ((fc_line.lpt_type == LPT_OTHER) &&
                                ((fc_line.brc_dn  == DBYES) ||
                                 (fc_line.brc_trm == DBYES) ||
                                 (fc_line.dn_bfg  == DBYES) ||
                                 (fc_line.trmbfg  == DBYES))) };
end

end
```

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# Glac_access

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glac_access | LRFP | DMaccess |

### 1.1 Glac_access

Global Office Parameter Glac_access

### 1.2 Description

This parameter is used to indicate LASS Automatic Callback (AC) feature access. It indicates whether the feature is unavailable for use, whether subscription is required to access the AC feature, whether the feature is generally available or whether the feature is temporarily unavailable for use.

The AM parameter reflects the office standard value and is typically used to set the SM parameters after SM growth.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** UNAVAILABLE

***AM Initial Value:*** UNAVAILABLE

***CMP Initial Value:*** UNAVAILABLE

***RC/ODA Rules:*** It should initially be populated with UNAVAILABLE. The AM value for this parameter is defaulted to UNAVAILABLE. The AM parameter is changed by RC/V only when the 'ALL' value is used for the SM key on the LASS Feature Access View.

***Retrofit Rules:*** ODA must retain its value across retrofits to post 5E5 generics.

***Default Rules:***

```
default = UNAVAILABLE;
```

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glac_access.values: */
Glac_access is_in {UNAVAILABLE, GEN_AVAIL, SUBSCRIPTION, LASSNULL,
          TEMP_UNAVAIL};
```

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# Glac_cancel

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glac_cancel | FR | DMrteidx |

### 1.1 Glac_cancel

Global Office Parameter Glac_cancel

### 1.2 Description

This parameter is used by LASS AC for feature cancellation announcement route index.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glac_cancel values: *?
     /* no check */ ;
```

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# Glac_confirm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glac_confirm | FR | DMrteidx |

### 1.1 Glac_confirm

Global Office Parameter Glac_confirm

### 1.2 Description

This parameter is used for the LASS AC confirmation announcement route index.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glac_confirm.values: */
        /* no check */ ;
```

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# Glac_featid

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glac_featid | FR | DMfid |

### 1.1 Glac_featid

Global Office Parameter Glac_featid

### 1.2 Description

This parameter is used by LASS AC and contains a feature id for generally available feature access. This will be used by call processing to determine which tuple to read in the _cf and _opts relations for generally available features. Even though this parameter has a default of null specified for the generally available feature id, ODA should populate this parameter as a result of the ODA process which converts feature names to feature ids. This parameter is populated with the last 10 bits of RLfacname.facid which is accessed by using the generally available feature name, /LACGA, as the key.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glac_featid.values: */
        /* no check */ ;
```

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# Glac_inh

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glac_inh | FR | DMbool |

### 1.1 Glac_inh

Global Office Parameter Glac_inh

### 1.2 Description

Alarm call service inhibit. Controls all alarm call service activity in the office. The parameter exists in all IMs. Used by Export only. DBNO - activate, DBYES - inhibit.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glac_inh.values: */
        /* no check */ ;
```

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# Glac_intra

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glac_intra | LRFR | DMbool |

### 1.1 Glac_intra

Global Office Parameter Glac_intra

### 1.2 Description

This parameter indicates whether OSPS Intraflow is turned ON or OFF for this switch.

Intraflow allows an automatic call distributor (ACD) or OSPS administrator to designate for each call queue a single principal serving team and up to 8 supporting serving teams with associated delay outflow thresholds. Each serving team has a threshold indicating the maximum percentage of the team that can be handling calls from its supporting queues simultaneously. A queue intraflows traffic from its principal serving team to a supporting team when the delay of the oldest call on queue exceeds the outflow threshold for the supporting team. The supporting serving team accepts the call as long as doing so would not violate the team's supporting queue call percentage threshold.

Similarly, a server on a team may serve its supporting queues, subject to the existing Delay Ratio Queuing (DRQ) algorithm, only when there are no other available servers on its team and there are no calls in any of its principal queues. The same team threshold and outflow thresholds are checked before a server can accept a call from one of its supporting queues.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glac_intra.values: */
        /* no check */ ;
```

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# Glac_tocoin

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glac_tocoin | FR | DMbool |

### 1.1 Glac_tocoin

Global Office Parameter Glac_tocoin

### 1.2 Description

This global office parameter will indicate whether or not the customer will allow the LASS Automatic Callback (AC) feature to be invoked towards coin phones thus allowing a callback towards these phones. If the parameter is set to DBYES, then AC attempts towards coin lines will be allowed.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBYES;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glac_tocoin.values: */

        /* no check */ ;
```

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# Glac_uniqign

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glac_uniqign | FR | DMbool |

### 1.1 Glac_uniqign

Global Office Parameter Glac_uniqign

### 1.2 Description

This office parameter indicates whether or not the customer will ignore checking on the uniqueness of the last incoming calling DN upon LASS Automatic Callback (AC) invocation. This parameter should initially be set to DBNO. If this parameter is set to DBYES, the customer will ignore checking on the uniqueness of the Last Incoming Calling DN (LICDN) whereas if it is set to DBNO, the uniqueness will be checked on the LICDN.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glac_uniqign.values: */

        /* no check */ ;
```

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# Glacact

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacact | FR | DMbool |

### 1.1 Glacact

Global Office Parameter AC Activation

### 1.2 Description

This parameter is used to indicate LASS AC feature activation level. It indicates whether the feature is to use 1-level (DBNO) or 2-level (DBYES) activation procedures. The parameters Glactot, Glactoa, Glactry and Glacdat only have meaning when this parameter is DBYES.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** ODA must check the Special Feature bit SFID043; if DBYES, map TFOS bit RCTOP032 to this global parameter, else use default.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glacact.values: */

        /* no check */ ;

/* RULE about Glacact: */

/*
* Must make sure announcements can be accessed
* before allowing activation to be set to 2-level
* in an office with AC active.
*/
```

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```
/* variables */

if (Glacact == DBYES) then
begin
        if (Glac_access == GEN_AVAIL ||
            Glac_access == SUBSCRIPTION) then
        begin
        /*
        * Must have a fixed route index for 2-level.
        */
                find == 1 rt_fixedri in RLrt_fixedri
                where (rt_fixedri.ritype == RT_2LEVEL &&
                    rt_fixedri.noc == 0)
                when_found
                        rt_fixedri.ri != 0;
                function func() returning boolean
                begin
                        find == 1 annc_apl in RLannc_apl
                        where (annc_apl.appl == FCLS_2LEVEL)
                        when_found
                        begin
                                bool1 = false;
                                for anncsm in {annc_apl.sm[1 thru 25]}
                                begin
                                        if (anncsm != 0) then
                                        begin
                                                bool1 = true;
                                        end
                                end
                                assert(bool1 == true);
                        end
                        return true;
                end
                func();
        end
end
```

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# Glacblk_ri

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacblk_ri | FR | DMlong |

### 1.1 Glacblk_ri

Automatic Callback Blocked to Private Number Route Index

### 1.2 Description

This parameter provides the route index of the announcement to use when an Automatic Callback (AC) attempt is blocked because the last incoming call was private and the AC Blocked to Private Number feature is active. If Glacblk_ri has a value of 0 and AC is blocked due to these conditions, reorder treatment will be provided.Glacblock.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** During a retrofit to 5E9, this global parameter Glacblk_ri must be initialized to the value stored in global parameter Glsf7dummy in 5E8, before Glsf7dummy is reset to a value of 0 in 5E9.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glacblk_ri.values: */

        /* no check */ ;

/* RULE about Glacblk_ri: */

if (Glacblk_ri > 0) then
begin
/* AC Blocked to Private Number must be active */
/*
 * If the secured feature Deny AC on ICLATA calls -per CIC
```

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```
 * control(SFID201) is purchased then the Glacblk_ri can be
 * greater than 0, even if the Glacblock == DBNO.
 *
 *  if ( DBSFI_OFF(SFID201) )
 *  {
 *    Glacblock == DBYES;
 *  }
 */
        find == 1 rt_routing in RLrt_routing
        where (rt_routing.route_x == Glacblk_ri &&
            rt_routing.rt_descript == RT_GEN_ANN);
end
```

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# Glacblock

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacblock | FR | DMbool |

### 1.1 Glacblock

Automatic Callback Blocked to Private Number

### 1.2 Description

Global parameter for Automatic Callback (AC) Blocked to Private Number special feature. When set to DBYES, the switch will block attempts to invoke AC to a private number and route the customer to a rejection announcement. When set to DBNO, attempts to invoke AC to a private number will not be blocked. This parameter can be set to DBYES only if the AC Blocked to Private Number feature is active in the office (SFID111 is on).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** During a retrofit to 5E9, this global parameter Glacblock must be initialized to the value stored in global parameter Glsf1dummy in 5E8, before Glsf1dummy is reset to a value of DBNO in 5E9.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glacblock.values: */

        /* no check */ ;
```

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# Glaccs1

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaccs1 | FR | DMprmptrt |

### 1.1 Glaccs1

Global Office Parameter Glaccs1

### 1.2 Description

Parameter specifies which one of two prompt treatments coin & hotel/motel classes of service will receive. Range is provide tone only (OAPR_TONE), or provide tone and announcement prompt (OAPR_TN_ANN); application FCACCS and hdr_id one will be used in relation RLannc_hdr to specify the announcement.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** OAPR_TN_ANN

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = OAPR_TN_ANN;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glaccs1.values: */

Glaccs1 is_in {OAPR_TONE, OAPR_TN_ANN};
```

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# Glaccs2

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaccs2 | FR | DMprmptrt |

### 1.1 Glaccs2

Global Office Parameter Glaccs2

### 1.2 Description

Specifies the prompt treatment that call classes of service not covered under Glaccs1 will receive. Range is provide tone only (OAPR_TONE), provide tone and announcement prompt (OAPR_TN_ANN); application FCACCS and hdr_id one will be used in relation RLannc_hdr to specify the announcement.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** OAPR_TONE

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = OAPR_TONE;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glaccs2.values: */

Glaccs2 is_in {OAPR_TONE, OAPR_TN_ANN};
```

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# Glaccsqrec

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaccsqrec | FR | DMbool |

### 1.1 Glaccsqrec

Global Office Parameter Glaccsqrec

### 1.2 Description

This is the ACCS query antifraud studies recording bit. When it is set, it results in an AMA record for each failed reply to an ACCS validation query.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glaccsqrec.values: */

        /* no check */ ;
```

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# Glaccsraf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaccsraf | FR | DMushort |

### 1.1 Glaccsraf

Number of RAF members in ACCS announcement logical service group.

### 1.2 Description

This global is used to keep a count of the number of members of the ACCS Logical Service Group (LSG) which are from RAFs, as opposed to from SASs. It is updated every time a RAF member is added or removed from the ACCS LSG.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global is read-only on RC/V view 5.1. It is updated internally from RC/V view 5.5 every time a member is added or removed from the LSG.

***Retrofit Rules:*** None.

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
for rt_fixedri in RLrt_fixedri
            where (rt_fixedri.ritype == RT_OSPS_ACCS)
        begin
                find == 1 rt_routing in RLrt_routing
                    where (rt_fixedri.ri == rt_routing.route_x)
                when_found
                begin
                        find == 1 rt_trkg in RLrt_trkg
                            where
                            (rt_trkg.grpnum == rt_routing.portgrp.grpnum)
                        when_found
sas_92_1:                   Glaccsraf == rt_trkg.raf_mbrs;
                end
```

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```
end
```

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# Glacd_assert

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacd_assert | LP | DMbool |

### 1.1 Fullname:

OSPS ACD assert activation bit

### 1.2 Description:

This global parameter controls if the OSPS ACD will assert in addition to the OAP alert for the following three conditions:

```
1. A call that is to be interflowed has already been interflowed.
2. The last operator logs off a serving team, for which calls are
   still queued.
3. A call is received for a serving team which currently has no
   operators logged in.
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ---

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** Set to the default value.

***Retrofit Rules:*** The value of this global parameter should be preserved across a retrofit. When starting a new office with the 5E14 release, the parameter should be set to its default value.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard - LP */
```

***Checks:***

```
        /* No checks */

;
```

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# Glacd_errors

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacd_errors | FR | DMbool |

### 1.1 Fullname:

OSPS Flexible ACD error print activation bit

### 1.2 Description:

This global parameter controls whether the Flexible ACD feature prints a nicely formatted CRAFT assert when a condition causing early termination occurs.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Set to the default value.

***Retrofit Rules:*** The value of this global parameter should be preserved across a retrofit. When starting a new office with the 5E14 release, the parameter should be set to its default value.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard - FR */
```

***Checks:***

```
        /* No checks */

;
```

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# Glacd_ia

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacd_ia | FR | DMcfsim |

### 1.1 Glacd_ia

Global Office Parameter Glacd_ia

### 1.2 Description

This parameter specifies the maximum number of intra-switch simultaneous calls to be forwarded as an action of ACD re-routing.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 99

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** Glacd_ia should be set to its default value for retrofits to 5E9. Retrofits from 5E9 should preserve the value of Glacd_ia.

***Default Rules:***

```
default = 99;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glacd_ia.values: */

Glacd_ia is_in {1 thru 99};
```

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# Glacd_ir

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacd_ir | FR | DMcfsim |

### 1.1 Glacd_ir

Global Office Parameter Glacd_ir

### 1.2 Description

This parameter specifies the maximum number of inter-switch simultaneous calls to be forwarded as an action of ACD re-routing.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 99

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** Glacd_ir should be set to its default value for retrofits to 5E9. Retrofits from 5E9 should preserve the value of Glacd_ir.

***Default Rules:***
```
default = 99;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glacd_ir.values: */

Glacd_ir is_in {1 thru 99};
```

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# Glacd_mx

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacd_mx | FR | DMcfseq |

### 1.1 Glacd_mx

Global Office Parameter Glacd_mx

### 1.2 Description

This parameter specifies the maximum number of call forwardings as an action of ACD re-routing.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 5

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** Glacd_mx should be set to its default value for retrofits to 5E9. Retrofits from 5E9 should preserve the value of Glacd_mx.

***Default Rules:***

```
default = 5;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glacd_mx.values: */

Glacd_mx is_in {1 thru 32};
```

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# Glacdat

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacdat | FR | DMbool |

### 1.1 Glacdat

Global Office Parameter AC Date And Time

### 1.2 Description

This parameter is used to indicate whether or not the date and time of the last incoming call should be voiced back to the user when activating an AC feature. This parameter only has meaning when Glacact is DBYES.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** 5e6 to 5e7 retrofit: If SFID043 is set default to DBNO else default to DBYES.

***Default Rules:***
```
default = DBYES;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glacdat.values: */

        /* no check */ ;
```

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# Glacdinfo

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacdinfo | FP | DMushort |

### 1.1 Glacdinfo

Count of RLacdinfo tuples present in an SM.

### 1.2 Description

The Glacdinfo global parameter is defined to equal the number of RLacdinfo tuples allocated in the SM. Its value is a function of the number of ACD/BRCS positions provisioned on a SM and will be established during full initialization. It will be updated as tuples are added via triggers.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glacdinfo.values: */

Glacdinfo is_in {0 thru 512};
end
```

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# Glacdp_cnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacdp_cnt | FP | DMushort |

### 1.1 Fullname:

Count of ACD/BRCS positions provisioned in an SM.

### 1.2 Description:

The Glacdp_cnt global parameter is defined to equal the number of ACD/BRCS positions provisioned in an SM. RC and ODA will use this count to limit the number of ACD/BRCS positions on an SM to 512. Gl_pcrid, Glconfigname

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glacdp_cnt.values: */

if (current_pcr is_in sm_all) then
begin

Glacdp_cnt is_in {0 thru 512};

end
```

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```
/* RULE about Glacdp_cnt: */
if (runucv) then
begin
let max_cnt = 512;
if (current_pcr is_in sm_all &&
    Glconfigname is_in {CNFG002,
                        CNFG003,
                        CNFG2K00}) then
begin
        find == 1 lpconf in RLlpconfig
        where ( lpconf.smconfig == Glconfigname &&
                lpconf.package == GLACDBRCS )
        when_found
        begin
                function func() returning boolean
                begin
                        isterm_cnt = 0;
                        /* Loop thru RLis_term */
                        for is_term in RLis_term on sm(Gl_pcrid)
                        begin
                                if (is_term.posnum != 0) then
                                begin
                                     isterm_cnt = isterm_cnt + 1;
                                end
                        end
                        assert(Glacdp_cnt == isterm_cnt &&
                            Glacdp_cnt <= max_cnt);
                        return true;
                end
                func();
        end

        if ( count ( {
                        lpconf in RLlpconfig
                        where ( lpconf.smconfig == Glconfigname &&
                                lpconf.package == GLACDBRCS )
                     } ) == 0 ) then
        begin
                Glacdp_cnt == 0;
        end
end
end
```

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# Glacdposdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacdposdb | FP | DMushort |

### 1.1 Glacdposdb

Count of RLacdposdb tuples present in an SM.

### 1.2 Description

The Glacdposdb global parameter is defined to equal the number of RLacdposdb tuples allocated in the SM. Its value is equal to the number of ACD/BRCS positions provisioned on a given SM and will be established during full initialization. It will be updated as tuples are added via triggers.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then

begin

/* RULE about Glacdposdb.values: */
Glacdposdb is_in {0 thru 520};

end
```

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# Glacffw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacffw | LRFR | DMbool |

### 1.1 Glacff

All Cards Fail On

### 1.2 Description

This global is used to activate the All Cards Fail (ACF) feature (u1166). Glacffw has the following meaning: DBNO if ACF is off and DBYES if ACF is on. Default is DBNO.

This parameter may be reviewed and updated only at the OSPS OAP security terminal.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** Because this parameter is accessible only from the OSPS OAP security terminal, ODA does not have a corresponding form for data entry. Thus, ODA will support this parameter by carrying forward the current value in the next generic.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glacffw.values: */

        /* no check */ ;
```

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# Glacgfht

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacgfht | FR | DMtreat |

### 1.1 Glacgfht

Automatic Code Gap Final Handling Treatment

### 1.2 Description

This parameter is required to specify the final AIN handling treatment for call blocked due to ACG controls. The call can be routed either to reorder or no circuit available announcement.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** RT_REORDER

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = RT_REORDER;
```

***Distribution Rules:*** standard

***Import:***
```
"chk_apperm.R"
```

***Checks:***
```
/* RULE about Glacgfht.values: */

Glacgfht is_in {RT_REORDER, NM_NCA};

/* RULE about Glacgfht permitted in office type */
if (c_aperm(PVOPNET,CONFIGMAX) == false) then
        Glacgfht is_in {RT_REORDER};
```

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# Glacintra

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacintra | LRFR | DMbool |

### 1.1 Glacintra

This global parameter is used to enable or disable the ACD/BRCS Intraflow feature on the switch.

### 1.2 Description

This global parameter is used to enable (DBYES) or disable (DBNO) the ACD/BRCS Intraflow feature on the switch.

Intraflow allows an Automatic Call Distributor/Business and Residence Custom Services (ACD/BRCS) administrator to designate for each call queue a single principal (or primary) serving team and up to 8 supporting (or secondary) serving teams with associated delay outflow thresholds. Each serving team has a threshold indicating the maximum percentage of the team that can be simultaneously handling calls from its supporting call queues. A call queue intraflows traffic from its principal serving team to a supporting team when the delay of the call at the head of the call queue exceeds the outflow threshold for the supporting team. The supporting serving team accepts the call as long as doing so would not violate the team's supporting queue call percentage threshold.

Similarly, a server on a team may serve its supporting queues, subject to the existing Delay Ratio Queuing (DRQ) algorithm, only when there are no other available servers on its team and there are no calls in any of its principal call queues. The same team threshold and outflow thresholds are checked before a server can accept a call from one of its supporting call queues.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** This parameter is supported by both ODA and RC.

***Retrofit Rules:***
```
/* See evolution rules in Glacintra.V */
```

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

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***Checks:***

```
/* RULE about Glacintra.values: */

          /* no check */ ;
```

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# Glaclim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaclim | FR | DMuns5 |

### 1.1 Glaclim

Concurrent AC camp-on entries originated by a single port

### 1.2 Description

This parameter is used by LASS Automatic Callback (AC) to limit the number of concurrent AC camp-on entries originated by a single port.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 10

***CMP Initial Value:*** 10

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 10;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glaclim.values: */

Glaclim is_in {1 thru 30};
```

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# Glacmtim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacmtim | FR | DMshort |

### 1.1 Glacmtim

Global Office Parameter Glacmtim

### 1.2 Description

Glacmtim indicates the timer while waiting for the CCS Address Complete message. Glactim is specified in seconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 25

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA should populate with default value for new offices.

***Retrofit Rules:*** ODA should preserve value from data base during retrofits and growths.

***Default Rules:***
```
default = 25;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glacmtim.values: */

Glacmtim is_in {20 thru 30};
```

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# Glacpgt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacpgt | LRFR | DMctxt6 |

### 1.1 Glacpgt

Global Office Parameter Glacpgt

### 1.2 Description

This global parameter will contain the 6-digit global title, which is inserted into the Common Channel Signaling System Number 7 (CCS7) Signaling Connection Control Part (SCCP) header and translated by the signaling transfer point (STP) into a Destination Point Code (DPC) in order to route the Transaction Capability Application Part (TCAP) message to the Leased Network (LN) Network Control Point (NCP).

***Type:*** DB8STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** "0"

***AM Initial Value:*** "000000"

***CMP Initial Value:*** "000000"

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = "000000";
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glacpgt.values: */

Glacpgt  == "[0-9]*";
```

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# Glacpln

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacpln | LR | DMbool |

### 1.1 Glacpln

Global Office Parameter Glacpln

### 1.2 Description

This parameter is used to indicate this office serves as An Action Point (ACP) for Leased Networks (LN). This parameter is dependent on Glccs. This parameter must not be set to DBYES if Glccs indicates no CNI is equipped.

All LN ACP offices must be equipped with a common network interface (CNI).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** 0

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glacpln.values: */
if (!(Glccs is_in {CC_CNIPLATFORM, CC_ALLPLATFORM})) then
begin
        Glacpln == DBNO;
end
```

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# Glacpssn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacpssn | FR | DMuns16 |

### 1.1 Glacpssn

Action Point Subsystem Number

### 1.2 Description

This parameter is the SCCP subsystem number for the ACP Call Processing subsystem at this node.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ***NOTE:*** The ACP SSN isn't supported, therefore Glacpssn should be populated with 0.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* Glacpssn should equal 0. */

Glacpssn == 0;
```

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# Glacpto

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacpto | LRFR | DMshort |

### 1.1 Glacpto

Global Office Parameter Glacpto

### 1.2 Description

This global parameter is defined as the time to wait for the transaction Capability Application Part (TCAP) responded messages from the Leased Network (LN) Network Control Point (NCP). Glacpto is specified in seconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4

***AM Initial Value:*** 4

***CMP Initial Value:*** 4

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 4;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glacpto.values: */

Glacpto is_in {2 thru 6};
```

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# Glacqsfail

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacqsfail | FR | DMbool |

### 1.1 Glacqsfail

Global Office Parameter Glacqsfail

### 1.2 Description

Specifies whether the HOBIS/HOBIC should be sent data after a ACQS rating failure. DBYES means let the call go for free. DBNO means send the data for billing.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glacqsfail.values: */

        /* no check */ ;
```

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# Glacqssm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacqssm | LRFP | DMuns8 |

### 1.1 Glacqssm

Global Office Parameter Glacqssm

### 1.2 Description

This parameter points to which SM has the hotel billing information system (HOBIS) or hotel billing information center (HOBIC) and the optional Autoquote data links. Glacqssm should only be set to an SM equipped with HOBIS/HOBIC digital subscriber lines. If there is no HOBIS/HOBIC present on the OSPS, this value should be 0.

This parameter is group partitioned with grp_type=GPD_OPRT and grp_id=3. That is, it exists on all SMs with operator traffic trunks, and all loaded SMs.

An SM that carries operator traffic trunks is one in which one or more tuples in rlFC_PORTTYPE have the attribute servclass set to FC_ISPOPR.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** No Recent Change default - required field: range 1 to 192.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OPRT,3);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
/* RULE about Glacqssm.values: */

Glacqssm is_in {0 thru 192};
```

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```
/* RULE about Glacqssm: */

if (Glacqssm > 0) then
begin
        find > 0 lpconf in RLlpconfig
        where (lpconf.smconfig == Glconfigname &&
            lpconf.package is_in {GLOPSMDAAC, GLOPSMAUTO, GLOPSMOT});
end
```

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# Glacqstax

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacqstax | LRFR | DMbool |

### 1.1 Glacqstax

Global Office Parameter Glacqstax

### 1.2 Description

ACQS tax flag parameter. Indicates whether the applicable taxes need to be included in the charge computed for ACQS calls.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBYES;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glacqstax.values: */

        /* no check */ ;
```

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# Glacrecor

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacrecord | FP | DMshort |

### 1.1 Glacrecor

Maximum number of OSPS Auxiliary Call Records.

### 1.2 Description:

This parameter contains a count of the number of rlACRECORD tuples.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** The value for this parameter is ((0.33 * Glcrecord) + Gliacrd) in {140 thru 8975} on loaded SMs and 0 everywhere else. RC only: This parameter cannot be changed or viewed by Recent Change.

***Retrofit-ODA Rules:*** not applicable

***Retrofit Rules:*** This value is always recalculated at retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glacrecord */

BCacrecordd: if (current_pcr is_in sm_all) then
begin
        if ((count({lpconf in RLlpconfig
             where(lpconf.smconfig == Glconfigname &&
                     lpconf.package == GLOPSMOT)}) > 0) ||
           (count({lpconf in RLlpconfig
             where(lpconf.smconfig == Glconfigname &&
```

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```
                        lpconf.package == GLOPSMDAAC)}) > 0)) then
        begin
                /* Glacrecord is_in {140 thru ($DBQNACRECORD - $DBSFACRECORD)}; */
                Glacrecord is_in {140 thru 9215};
                /* Glacrecord  can be updated by cra/CRoasmblr/ACRq_init.c
                 * during SM initialization checking configuration components
                 */
                /* Now align the value on a 16 tuple boundary     */
                /* as the 'init' code does.                       */
                /*                                                */
                /* Glacrecord = ((((Glacrecord + $DBSFACRECORD) + */
                /*             ($DBTPACRECORD - 1)) /             */
                /*             $DBTPACRECORD) * $DBTPACRECORD) -  */
                /*             $DBSFACRECORD;                     */
Mgl_1:          Glacrecord == (((((((Glcrecord + 2) / 3) + Gliacrd) + 1) +
                                 (16 - 1)) / 16 ) * 16) - 1);
;
        end else begin
                Glacrecord == 0;
        end
end
```

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# Glacrecord

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacrecord | FP | DMshort |

### 1.1 Fullname:

Maximum number of OSPS Auxilliary Call Records.

### 1.2 Description:

This parameter contains a count of the number of rlACRECORD tuples.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***
```
ODA only:
   The value for this parameter is ((0.33 * Glcrecord) + Gliacrd)
   in {140 thru 8975} on loaded SMs and 0 everywhere else.

RC only:
   This parameter cannot be changed or viewed by Recent Change.
```

***Retrofit-ODA Rules:*** not applicable

***Retrofit Rules:*** This value is always recalculated at retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glacrecord */
```

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```
if (current_pcr is_in sm_all) then
begin
        Glacrecord is_in {0 thru 9215};
if (runucv) then
begin
        if ((count({lpconf in RLlpconfig
                where(lpconf.smconfig == Glconfigname &&
                        lpconf.package == GLOPSMOT)}) > 0) ||
           (count({lpconf in RLlpconfig
                where(lpconf.smconfig == Glconfigname &&
                        lpconf.package == GLOPSMDAAC)}) > 0)) then

        begin
                /* Glacrecord is_in {140 thru
                /* ($DBQNACRECORD - $DBSFACRECORD)};
                Glacrecord is_in {140 thru 9215};

                /* Glacrecord  can be updated by
                 * cra/CRoasmblr/ACRq_init.c
                 * during SM initialization checking
                 * configuration components */

                /* Now align the value on a 16 tuple boundary
                 * as the 'init' code does.
                 *
                 * Glacrecord = ((((Glacrecord + $DBSFACRECORD) +
                 *             ($DBTPACRECORD - 1)) /
                 *             $DBTPACRECORD) * $DBTPACRECORD) -
                 *             $DBSFACRECORD;                      */

Mgl_1:          Glacrecord == (((((((Glcrecord + 2) / 3) +
                                 Gliacrd) + 1) +
                                 (16 - 1)) / 16 ) * 16) - 1);

;
        end else begin
                Glacrecord == 0;
        end
end
end
```

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# Glacs_ceil

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacs_ceil | FP | DMulong |

### 1.1 Fullname:

Global Office Parameter Glacs_ceiling

### 1.2 Description:

This parameter contains the address of the end of logical memory for the generic when populated for an ACS SM. This parameter was created solely for testing purposes. For field use this parameter can only be set to 0 and can not be changed.

***NOTE:*** This parameter is not used in the field. No access via ODBE.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ODA should populate as 0. There is no ODA/RC view access.

***Retrofit Rules:*** This Global Parameter should always be 0.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glacs_ceil: */
for pcr in sm_all
begin
        Glacs_ceil on pcr == 0;
end
```

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# Glacsrraf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacsrraf | FR | DMushort |

### 1.1 Glacsrraf

Number of RAF members in ACSR announcement logical service group.

### 1.2 Description

This global is used to keep a count of the number of members of the ACSR Logical Service Group (LSG) which are from RAFs, as opposed to from SASs. It is updated every time a RAF member is added or removed from the ACSR LSG.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global is read-only on RC/V view 5.1. It is updated internally from RC/V view 5.5 every time a member is added or removed from the LSG.

***Retrofit Rules:*** None.

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
for rt_fixedri in RLrt_fixedri
            where (rt_fixedri.ritype == RT_ACSR)
        begin
                find == 1 rt_routing in RLrt_routing
                    where (rt_fixedri.ri == rt_routing.route_x)
                when_found
                begin
                        find == 1 rt_trkg in RLrt_trkg
                            where (rt_trkg.grpnum == rt_routing.portgrp.grpnum)
                        when_found
sas_92_1:                   Glacsrraf == rt_trkg.raf_mbrs;
                end
        end
```

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# Glactoa

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glactoa | FR | DMuns3 |

### 1.1 Glactoa

Global Office Parameter AC Time-Out Allow

### 1.2 Description

This parameter is used to indicate the number of times the user will be allowed to time out following the interactive recorded announcement prompt when using 2-level activation of an AC feature. This parameter only has meaning when Glacact is DBYES.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 3

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 3;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glactoa.values: */

Glactoa is_in {1 thru 5};
```

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# Glactot

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glactot | FR | DMuns4 |

### 1.1 Glactot

Global Office Parameter AC Time-Out Time

### 1.2 Description

This parameter is used to indicate the amount of time, in seconds, in which the user must respond to the interactive recorded announcement prompt when using 2-level activation of an AC feature. This parameter only has meaning when Glacact is DBYES.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 7

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 7;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glactot.values: */

Glactot is_in {1 thru 15};
```

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# Glactprmpt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glactprmpt | FR | DMgacct_pr |

### 1.1 Fullname:

This parameter contains the Long Distance Platform Account Code feature prompt

### 1.2 Description:

Service provider office option parameter to provide the following LDP Account Code feature prompts:

- BEEP2: Account code prompt of two audible beeps
- ANNC: SAS announcement
- CARRIER: 400Hz carrier tone

If a LDP customer subscribes to the Account Code feature and Glactprmpt is set to ANNC the caller hears the Account Code announcement. At any time after the Account Code announcement begins, the caller enters the digits. Once the caller begins entering digits the SAS circuit stops playing the announcement. A fixed route of TACCT must exist on view 10.1 in order for a caller to hear the announcement. When set to BEEP2 the caller hears the Account Code prompt (2 beeps) and enters digits. When set to CARRRIER the caller hears the 400Hz tone and enters digits.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DMGACCTBEEP2

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DMGACCTBEEP2;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
if (Glactprmpt == DMGACCTANNC) then
begin
        /* If acctprompt is ANNC, then fixed routing must
         * contain 1 tuple where the route type is TOLL
         * account code.
```

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```
         */
        find == 1 rt_fixedri in RLrt_fixedri
        where(rt_fixedri.ritype == RT_TOLL_ACCT);
end
else if (Glactprmpt == DMGACCT400HZ) then
begin
        /* Glactprmpt cannot be assigned to CARRIER unless
         * CARRIER TONE on RC/V 8.1 is set to DBYES
         */
        Glcartone == DBYES;
end
```

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# Glactry

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glactry | FR | DMuns3 |

### 1.1 Glactry

Global Office Parameter AC Retries

### 1.2 Description

This parameter is used to indicate the number of times the user will be allowed to enter an incorrect digit (a digit other than a '1') in response to the interactive recorded announcement prompt when using 2-level activation of an AC feature. This parameter only has meaning when Glacact is DBYES.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 3

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 3;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glactry.values: */

Glactry is_in {1 thru 5};
```

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# Glacts

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glacts | FP | DMbool |

### 1.1 Glacts

Global Office Parameter Glacts

### 1.2 Description

This parameter indicates whether the OSPS Automated Coin Toll Service (ACTS) feature is activated in the switch.

### 1.3 RESTRICTIONS

Glacts cannot be DBYES if Glospsta is DBNO.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** POPULATION: GROUP_PARTITIONED
This parameter is group partitioned with grp_type=GPD_OPRT and grp_id=3. That is, it exists on all SMs with operator traffic trunks, and all loaded SMs.

An SM that carries operator traffic trunks is one in which one or more tuples in rlFC_PORTTYPE have the attribute servclass set to FC_ISPOPR.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OPRT,3);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
/* RULE about Glacts.values: */
```

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```
        /* no check */ ;

/* RULE about Glacts: */

if (current_pcr is_in { 1 thru 192 }) then
begin
        if (Glacts == DBYES) then
        begin
                find > 0 lpconf in RLlpconfig
                where (lpconf.smconfig == Glconfigname &&
                lpconf.package is_in {GLOPSMDAAC, GLOPSMAUTO, GLOPSMOT});
                Glospsta == DBYES;
        end
end
```

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# Glad_hi

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glad_hi | FP | DMadrange |

### 1.1 Glad_hi

Global office parameter Glad_hi.

### 1.2 Description

Used by Export, Glad_hi is the highest list entry for abbreviated dialing (Export speed calling). Glad_hi must be greater than Glad_low. The same values are used in each SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 49

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then

begin

/* RULE about Glad_hi.values: */
Glad_hi is_in {0 thru 999};
end
```

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# Glad_low

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glad_low | FP | DMadrange |

### 1.1 Glad_low

Global office parameter Glad_low

### 1.2 Description

Used by Export, Glad_low is the lowest list entry for abbreviated dialing (Export speed calling). Glad_hi must be greater than Glad_low. The same values are used in each SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glad_low.values: */

Glad_low is_in {0 thru 999};
end
```

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# Gladb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gladb | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Gladb

### 1.2 Description:

The Gladb global parameter contains an SM's current rlADB tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***NOTE:*** The algorithm in this file must be the same as the algorithm in fc/FCtrigint/FCadbcnt.c which is the init code for Gladb. So if the algorithm in this file changes verify that it is consistent with the init code algorithm.

ODA has agreed to make the calculation changes in 5e10 even though the changes were made to this file in 5e11.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as shared analog lines are assigned. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
"env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
```

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```
        Gladb is_in {0 thru 16383};

/* RULE about Gladb.values: */
if (runucv) then
begin

if (Gladb != 0) then
begin
        find > 0 lpconf in RLlpconfig
        where ((lpconf.smconfig == Glconfigname) &&
               (lpconf.package is_in {GLASHDN, GLISDNBRCS}))
        when_found
        begin
/*              Gladb is_in {1 thru (DBQNADB - DBSFADB)}; */
                Gladb is_in {1 thru (16383 - 0)};
        end
end


/* RULE about Gladb: */

begin
        let mu = ((Glshanal + 2) / 3);
        let sigma = sqrt( mu );
        let adb = mu + (5 * sigma);

/*      if (adb + Gliadb <= (DBQNADB - DBSFADB)) then   */
        if (adb + Gliadb <= (16383 - 0)) then
                Gladb >= adb + Gliadb;
        else
/*              Gladb == DBQNADB - DBSFADB;     */
                Gladb == 16383 - 0;
end

end
end
```

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# Gladd_mfc_tuc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gladd_mfc_tuc | FP | DMbool |

### 1.1 Gladd_mfc_tuc

Global Office Parameter Gladd_mfc_tuc

### 1.2 Description

Used to determine if a tone or announcement should be supplied after the last MFC address signal of an unsuccessful call has been sent. This parameter should be populated as follows:

| Country | Value |
|---|---|
| --- | --- |
| CO | DBYES |
| KO | DBNO |
| NL | DBNO |
| SA | DBNO |

Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gladd_mfc_tuc.values: */

        /* no check */ ;
```

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# Glainbsyna

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glainbsyna | FR | DMbool |

### 1.1 Glainbsyna

AIN Busy and Don't Answer Feature

### 1.2 Description

Glainbsyna is reserved for use by Special Features. In the 5e11_1 software release and beyond, this Global Parameter will be used by the AIN Busy and Don't Answer Feature. The Global Parameter will not be set to DBYES unless the feature lock associated with the AIN Busy and Don't Answer feature is unlocked.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** Recent Change will prohibit setting this parameter to DBYES, unless the Feature Lock Associated with AIN Busy and Don't Answer is unlocked.

***Retrofit Rules:***
```
/* None */
```

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glainbsyna.values: */

/*
 * AIN Busy and Don't Answer is a secured feature
 * and SFID166 must be active before setting this
 * Global Parameter to DBYES.
 *
 * if (Glainbsyna == DBYES) then
 *    SFID 166  must be purchased
 */
```

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# Glaisda

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaisda | FP | DMda_tree |

### 1.1 Glaisda

Global office parameter Glaisda

### 1.2 Description

Intercept digit analysis selector.

The DAS is used as the starting point in digit analysis for digits signaled over incoming intercept trunks using MF signalling. Using this DAS, an INDIT/LDIT combination can be found, which defines the valid signaling patterns for these trunks. Valid patterns should have a call type of NORMAL, while invalid should use VACANT code.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** A tuple must exist in RLda_digstrt where RLda_digstrt.digtree equals Glaisda, when Glaisda is not zero. RC must not allow this global to be changed to zero if this would cause a violation of the poprules for RLfc_oprtk. ODA and RC/V should equate unknown with zero and only allow 1 - 99.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glaisda.values: */

Glaisda is_in {0 thru 99};
```

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```
end
```

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# Glaisdi

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaisdi | FP | DMdestidx |

### 1.1 Glaisdi

Global office parameter Glaisdi

### 1.2 Description

Intercept destination index.

The setting of this global variable indicates how OSPS should treat an incoming intercept call when a signaling irregularity is detected. In all cases, an MDII (Machine Detected Interoffice Irregularity) is printed at the ROP. If set to 0, then the call is sent to reorder, but if set to a non-zero value, this destination index is used to determine the OSPS call queue for the call. When Glaisdi is not zero:

```
must find at least 1 tuple in Rlac_destx
where (RLac_destx.destx equals Glaisdi)
when found
begin
      must find at least 1 tuple in RLac_cqdet
      where (RLac_cqdet.ta_pcid equals Rlac_destx.ta_pcid and
              RLac_cqdet.ta_type equals OATA_AIS);
end
```

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC/V should equate unknown with zero and only allow 1 - 4095. Prior to 5E6(2), this global must always equal the default.

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

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***Checks:***

```
if (current_pcr is_in sm_all) then

begin

/* RULE about Glaisdi.values: */

Glaisdi is_in {0 thru 4095};
end
```

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# Glaisil

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaisil | FP | DMbool |

### 1.1 Glaisil

Global Office Parameter Glaisil

### 1.2 Description

OSPS intercept inter-LATA call completion allowed?

Global variable that is set to indicate if OSPS intercept inter-LATA call completion is activated.

Prior to 5E6(2), this global must always equal the default.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glaisil.values: */

        /* no check */ ;
```

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# Glaiu

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaiu | FP | DMshort |

### 1.1 Fullname:

Global Office Parameter Glaiu

### 1.2 Description:

This parameter indicates the number of operational AIU Line Units, with a maximum of 15 in an SM, and 105 in a SM-2000. A zero value will be populated in the Global Parameter if there are no AIU's in the SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** It must be updated by RC when AIU Line Units are grown or de-grown.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* FP */
        ;
```

***Import:***
```
cktdefs.R,
AVextern.R
```

***Checks:***
```
begin
if (current_pcr is_in sm_all) then
  begin
   let MAXAIU = SM2000(current_pcr) ? AVMAXAIU_ASM2K() : AVMAXAIU_ASM();

   let FIND_AIU(cktname, pcr) =
      find == 1 cktdata in RLcktdata on sm(pcr)
          where (cktdata.name == cktname &&
```

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```
           cktdata.type == PC_AIU &&
           cktdata.eqstat == SMOPER);

   let AIU_CNT(pcr) = count { unit_ckt in RLunit_ckt on sm(pcr)
      where (unit_ckt.ckt_indx == PL_AIU_CX() &&
           ( unit_ckt.utype is_in { SMAIU,
                                    SMRAIU,
                                    SMXAIU}) &&
           unit_ckt.unit is_in { 0 thru (MAXAIU - 1) } &&
           0 <= (MAXAIU -1) &&
      FIND_AIU(unit_ckt.cktname, pcr))};

        Glaiu == AIU_CNT(current_pcr);
        Glaiu is_in { 0 thru MAXAIU };
  end
end
```

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# Glaius

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaius | LR | DMshort |

### 1.1 Glaius

Global Office Parameter Glaius

### 1.2 Description

This parameter indicates the number of equipped AIU's in the office.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** It must be updated by RC when AIU's are grown or de-grown.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/*
         * Sum all Glaiu parameters from all SMs in the
         * office.
         */

        Glaius == sum(Glaiu on sm_all);

        /*
         * Max SM-2000s (24) x Max AIUs (43) = 1032
         * Max SMs  (192) x Max AIUs (15)  = 2880
         * so Max AIUs in an office is 2880
         */

        Glaius is_in { 0 thru 2880 };
```

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# Glalarmthr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glalarmthr | LR | DMuns7 |

### 1.1 Glalarmthr

AILS alarm threshold

### 1.2 Description

The Glalarmthr global parameter holds the AILS alarm threshold parameter expressed as a percentage from 0 to 100. This global will be compared to the ratio of AILS AT&T CCS7 TCAP query successes to total query attempts. The default is 95.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 95

***CMP Initial Value:*** 95

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5e9_1 or 5e9_2, this parameter must be set to Gloff3{14:20}.

***Default Rules:***

```
default = 95;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glalarmthr.values */

Glalarmthr is_in {0 thru 100};
```

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# Glalinecnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glalinecnt | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Line Count

### 1.2 Description:

The Glalinecnt global parameter contains an SM's count of analog lines that do not have shared DNs. Its value is maintained over all initializations and updated via trigger functions as analog lines are inserted or deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as analog lines are inserted or deleted. Its value can increase and decrease.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glalinecnt.values: */

Glalinecnt is_in {0 thru 28800};
```

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```
/* RULE about Glalinecnt: */

/* runslow added due to linear search of FC_LINE and excessive
 * cpu usage */
if (runslow) then
begin

                Glalinecnt == count {fc_line in RLfc_line
                     where (fc_line.lpt_type == LPT_OTHER)};
end

end
```

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# Glalitdur

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glalitdur | LR | DMshort |

### 1.1 Glalitdur

Global Office Parameter Glalitdur

### 1.2 Description

Duration that automatic ALIT testing should run once started. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glalitdur.values: */

        /* no check */ ;
```

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# Glalithtod

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glalithtod | LR | DMshort |

### 1.1 Glalithtod

Global Office Parameter Glalithtod

### 1.2 Description

Hours past midnight that ALIT starts. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 1

***CMP Initial Value:*** 1

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glalithtod.values: */

        /* no check */ ;
```

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# Glalitmtod

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glalitmtod | LR | DMshort |

### 1.1 Glalitmtod

Global Office Parameter Glalitmtod

### 1.2 Description

Minutes past the specified hour for ALIT. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 5

***CMP Initial Value:*** 5

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glalitmtod.values: */

        /* no check */ ;
```

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# Glalitrng

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glalitrng | LR | DMalitrng |

### 1.1 Glalitrng

Global Office Parameter Glalitrng

### 1.2 Description

Gives the switch personnel the ability to change the range of testing for Automatic Line Insulation Testing (ALIT).

Glalitrng is contained in the global header file 'data/Glcpofopt.G'. This file is used in conjunction with the domain global header file 'db/DMalitrng.G'. The parameter values have the following meanings: TM_D=0, TM_C=1, TM_B=2, and TM_A=3. The altval values are TM_D=D (5M ohm high range), TM_C=C (2.5M ohm high range), TM_B=B (1.25M ohm high range) and TM_A=A (320K ohm high range).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** TM_D

***CMP Initial Value:*** TM_D

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = TM_D;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glalitrng.values: */

        /* no check */ ;
```

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# Glalittyp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glalittyp | LR | DMlittyp |

### 1.1 Glalittyp

Global Office Parameter Glalittyp

### 1.2 Description

Used to allow the switch personnel to change the type of test being used for automatic line insulation testing (ALIT).

Glattyp is used in conjunction with the new domain global header file 'db/DMlittyp.G'. The meaning of the parameter values are: TM_F = 1, TM_S = 2, TM_T = 3, TM_G = 4. The altval values are: TM_F = FEMF (foreign potential test), TM_S = SRG (short circuit and ring to ground), TM_T = TRG (tip and ring to ground), and TM_G = GENERAL (test which includes FEMF, TRG and SRG).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** TM_G

***CMP Initial Value:*** TM_G

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glalittyp.values: */

Glalittyp is_in {TM_F, TM_S, TM_T, TM_G};
```

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# Glallabn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glallabn | FR | DMbool |

### 1.1 Glallabn

Global Office Parameter Glallabn

### 1.2 Description

Office records all abandons. When set to DBYES the office will record AMA data for all billable calls that abandon.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glallabn.values: */

        /* no check */ ;
```

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# Glallsi_s

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glallsi_s | FR | DMuns5 |

### 1.1 Glallsi_s

Global Office Parameter Glallsi_s

### 1.2 Description

This Global Parameter will contain the customer defined value of "Account for All the SIs". This value will be used by the MTP Accounting Features in the population of the relation RLacc_si.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 15

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ***NOTE:*** The MTP Accounting feature isn't supported, therefore Glallsi_s should be populated with 15.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 15;
```

***Distribution Rules:***
```
/* Standard */
```

***Checks:***
```
/* Glallsi_s should equal 15. */

Glallsi_s == 15;
```

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# Glallssn_s

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glallssn_s | FR | DMuns8 |

### 1.1 Glallssn_s

Global Office Parameter Glallssn_s

### 1.2 Description

This Global Parameter will contain the customer defined value of "Account for All the valid SSNs". This value will be used by the SCCP Accounting Features in the population of the relations RLidx_ssn, RLssn_idx, RLacc_dpcs and RLacc_opcs.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 64

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ***NOTE:*** The SCCP Accounting feature isn't supported, therefore Glallssn_s should be populated with 64.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 64;
```

***Distribution Rules:***
```
/* Standard */
```

***Checks:***
```
/* Glallssn_s should equal 64. */

Glallssn_s == 64;
```

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# Glallsupv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glallsupv | FR | DMbool |

### 1.1 Glallsupv

Global Office Parameter Glallsupv

### 1.2 Description

Record SSU on all calls. When set to DBYES, the SSU number will be included in all AMA records for billable calls.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glallsupv.values: */

        /* no check */ ;
```

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# Glallwtcap

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glallwtcap | FR | DMbool |

### 1.1 Glallwtcap

AILS allow TCAP queries parameter

### 1.2 Description

The Glallwtcap global parameter holds a boolean value indicating whether the OSPS is allowed to send AILS CCS7 TCAP queries for TCS checks when the OSPS is accessed via an 800 number.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5e9_1 or 5e9_2, this parameter must be set to the value in bit 19 of Glspfeat.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glallwtcap.values */

       /* no checks */
```

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# Glalmhcs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glalmhcs | FR | DMuns9 |

### 1.1 Glalmhcs

Global Office Parameter Glalmhcs

### 1.2 Description

Specifies the software alarm threshold for the number of HOBIS/HOBIC messages that will be buffered before an alarm is given.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 100

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 100;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glalmhcs.values: */

Glalmhcs is_in {1 thru 100};
```

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# Glalmthrs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glalmthrs | LR | DMuns7 |

### 1.1 Fullname:

Originating Line Number Screening Alarm Threshold

### 1.2 Description:

OLNS software alarm threshold, in terms of percentage of successful queries. If the percentage falls under this threshold, an alarm is activated.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 95

***CMP Initial Value:*** 95

***RC/ODA Rules:*** This global parameter is controlled by Recent Change View 8.41.

***Retrofit Rules:*** The value of this global parameter should be preserved across a retrofit. When starting a new office with the 5E14 release, the parameter would be set to its default value.

***Default Rules:***
```
default = 95;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glalmthrs.values: */
/* NOTE: The following values are in decimal. */
        Glalmthrs is_in {1 thru 100};
```

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# Glaltsigsm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaltsigsm | FR | DMmodule |

### 1.1 Glaltsigsm

basic alternate signaling switching module

### 1.2 Description

This parameter is used for basic alternate signaling. During CNI outages, TCAP messages may be sent to another *5ESS*®-2000 switch and on out to the CCS network. This parameter indicates which switching module is performing the alternate signaling. A value of 0 indicates that alternate signaling is not supported.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glaltsigsm.values: */

Glaltsigsm is_in {0 thru 192};
```

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# Glalw_oc3

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glalw_oc3 | LRFR | DMbool |

### 1.1 Fullname:

This global parameter is used to enable or disable population of OC-3 OFIs in the switch.

### 1.2 Description:

The Glalw_oc3 parameter must always be set to DBNO. This parameter is introduced because 5E13_1Y will not have all of the necessary code or hardware to support the OC-3 feature when 5E13_1Y is deployed to the field. So, in order to prevent the customer from growing in the feature before the appropriate time, a check of Glalw_oc3 will be performed in RLcktdata. This global parameter will be made unavailable to RC/V and ODA.

OC-3 growth will be INHIBITED by checking Glalw_oc3 in RLcktdata population rules. OC-3 growth will be ALLOWED by removing the RLcktdata population rule check of Glalw_oc3.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** This parameter is not Recent Changeable. ODA should always set this parameter to DBNO.

***Retrofit Rules:*** /* None */

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glalw_oc3 values: */

        Glalw_oc3 == DBNO;
```

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# Glalw_ttf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glalw_ttf | FR | DMbool |

### 1.1 Glalw_ttf

Global Office Parameter Glalw_ttf

### 1.2 Description

Permits a telephone company to allow customers with DTMF station sets to originate calls if they are marked as DP-only in the data base (allow touch tone fraud). It is set to DBYES on the discretion of the telephone company. If the telephone company wants to allow their customers to originate on a DP dial pulse line with a touch tone phone, it has to be set to DBYES.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glalw_ttf.values: */

        /* no check */ ;
```

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# Glamaact

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glamaact | LPFP | DMbool |

### 1.1 Glamaact

Global Office Parameter Glamaact

### 1.2 Description

This parameter should have the value of 0 for AMAOFF and 1 for AMAON. Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glamaact.values: */

        /* no check */ ;
```

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# Glamaactiv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glamaactiv | FR | DMbool |

### 1.1 Fullname:

CDR Feature Activation Parameter for AMA.

### 1.2 Description:

This parameter specifies whether the CDR feature for AMA should be turned on or not..

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glamaactiv.values: */

        if (Glamaactiv == DBYES) then
           (Glcdractiv == DBYES);

        if (Glcdractiv == DBNO) then
           (Glamaactiv == DBNO);
```

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# Glamadns1

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glamadns1 | LRFR | DMbool |

### 1.1 Fullname:

AMA Data Network System Billing

### 1.2 Description:

This global parameter is used to enable or disable AMADNS1- High Speed Billing Phase1- on per office basis. In the 5e12 software release and the following software releases, this parameter is secured by SFID328.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** Glamadns1 = DBYES allows AMA Data Networking System Billing. This option is only allowed if the switch is equipped with a DSM, when SFID328 is purchased and Glamaopt == AMATPS || AMATPS1. SFID328, in turn, can not be purchased without SFID297 being purchased.

```
 /*   if ( SFID328 == DBYES ) then
  *          ( SFID297  == DBYES );
  *   if ( SFID328 == DBNO ) then
  *          (Glamadns1 != DBYES);
  *   if ( Glamadns1 == DBYES ) then
  *          ( Glamaopt == {AMATPS || AMATPS1} ); */
```

***Retrofit Rules:*** preserve over retrofit

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glamadns1.values: */

/*      The AMA Data Networking Systems Billing Option can only be
 *      allowed if the switch is equipped with the ASM (DSM).    */
```

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```
        if ( Glamadns1 == DBYES ) then
                ( Gldsm == DBYES );

/*      The AMA Data Networking Systems Billing Option can only be
 *      allowed if the Glamaopt = Teleprocessing for Billing      */

        if ( Glamadns1 == DBYES ) then
                ( Glamaopt is_in { AMATPS, AMATPS1} );
```

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# Glamaerlog

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glamaerlog | LRFR | DMbool |

### 1.1 Glamaerlog

Global Office Parameter Glamaerlog

### 1.2 Description

This global parameter will determine if a minor alarm is generated when AMALOST and AMAIRR records are sent to the ROP. This global parameter is being added as part of the AMA ERROR LOG FILE feature. This global parameter will not be coupled with the AMALOST and AMAERROR records that will be written to the new log file

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** maintain global parameters across retrofits

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glamaerlog.values: */

        /* no check */ ;
```

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# Glamaopt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glamaopt | LRFR | DMamaopt |

### 1.1 Glamaopt

Global Office Parameter Glamaopt

### 1.2 Description:

This parameter is used by AMA to determine billing method.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** AMATPS

***AM Initial Value:*** AMATPS

***CMP Initial Value:*** AMATPS

***RC/ODA Rules:*** Populated with one of the values from the domain DMAMAOPT as follows:

AMATPS allows a small office to use teleprocessing.

AMATPS1 makes the billing system act like AMATPS, but should only be used when the office is normally a Dual Stream office that is operating in a 'degraded' single stream mode defaulting to stream 1. The 'stream' attribute in RLMODATT is ignored.

AMATPS2 should only be used when the office should be operating in a 'degraded' single stream mode defaulting to stream 2. The 'stream' attribute in RLMODATT is ignored.

AMADUAL allows the office to operate as a full Dual Stream office, with billing traffic going to two separate streams. This allows large offices to process and send two separate billing streams simultaneously. Each SM belongs to one stream or the other depending upon the 'stream' attribute in the RLMODATT relation.

AMNONE turns off all billing options in an office except for CAMA billing. If administration enters AMNONE then RC and ODA message asking whether the administration really wants to do this.

***NOTE:*** AMARC BILLING IS NO LONGER A VALID OPTION.

***Retrofit Rules:*** not applicable

***Default Rules:*** None

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***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glamaopt.values: */

BCamaopt:    Glamaopt is_in {AMATPS, AMATPS1, AMATPS2, AMADUAL, AMNONE};
```

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# Glamid

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glamid | FR | DMuns16 |

### 1.1 Glamid

Access Manager ID Global Parameter

### 1.2 Description

The Glamid global parameter is a unique identifier for each access manager.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNO

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter is fully supported by RC.

***Retrofit Rules:***

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
        /* no check */
```

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# Glamqlmh

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glamqlmh | LP | DMshort |

### 1.1 Fullname:

Global Office Parameter Glamqlmh

### 1.2 Description:

This parameter indicates the total number of Message Handler's (MH's) in SM-2000 processors in the office that have connectivity to a QLPS via 1 or more MH pipes. For release 1, there is only 1 MH (that is, MH0) that terminates pipes in an SM-2000, so the number of MHs that have connectivity to a QLPS will be the same number as the number of SM-2000's that have connectivity.

It should also be noted that, in release 1, a MH may have 1) no pipes, 2) 1 pipe or 3) 2 pipes to a QLPS. This parameter DOES NOT indicate the number of pipes. It merely indicates the number of MH's (that is, the number of SM-2000's) that have connectivity, that is, any pipes, to a QLPS.

This parameter is used by measurements to size reports and by diagnostics to derive a source of packets for diagnosing the QLPS.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is populated in the AM only. It is initially set to 0 indicating no SM-2000s have access to QLPS via MH pipes. It is incremented by 1 when the first MH pipe is assigned to an SM-2000. It is not incremented when additional pipes are assigned to that SM-2000, only the first one. Likewise, it is incremented by 1 when the first MH pipe is assigned to second SM-2000 in the office, but not when additional pipes are assigned to that SM-2000, etc. It is decremented by 1 when all pipes to an SM-2000 are removed.

***Retrofit Rules:*** ODA must preserve this parameter during a retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* Standard */
        ;
```

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***Checks:***

```
let SMCONF_TUP(pcr) = find == 1 modatt in RLmodatt
                where (modatt.module == pcr &&
                       (modatt.ql_ntwk0 == DBYES ||
                        modatt.ql_ntwk1 == DBYES));

let TOTAL() = count { pcr in sm_all
                 where(SMCONF_TUP(pcr) == true) };

BCsmAMQLMH1: Glamqlmh on am == TOTAL();

/* Range checks */
BCsmAMQLMH2: Glamqlmh on am is_in {0 thru 32};
```

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# Glamqlqph

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glamqlqph | LP | DMshort |

### 1.1 Fullname:

Global Office Parameter Glamqlqph

### 1.2 Description:

This global parameter contains the total number of equipped QPH's with at least on QPH QPIPE in the office.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is populated in the AM only. It is incremented by one when a QPH is provisioned in the office via RC view 17.24 (QPH QPIPE ASSIGNMENT) or ODA form (QPH QPIPE). This global parameter should be decremented when all pipes on a QPH are removed. (question - check when a qph is deleted? when all pipes on the QPH are removed?)

***Retrofit Rules:*** The value of this global parameter should be preserved during a retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        pcrlist[193] = true;
```

***Checks:***
```
function totalqph() returning DMSHORT
begin
        total = 0;
        for modatt in RLmodatt
        begin
                total = total +
                        (count { qph in RLqph on modatt.module});
        end

        return (total);
end
```

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```
if (current_pcr == am) then
begin
        Glamqlqph on am == totalqph();
end
```

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# Glamsdnst

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glamsdnst | LRFR | DMushort |

### 1.1 Glamsdnst

AMA stream data manager, number of streams

### 1.2 Description

This parameter shows the number of streams currently on the switch. This is being added by feature 99-5E-3784 RTCD.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2

***AM Initial Value:*** 2

***CMP Initial Value:*** 2

***RC/ODA Rules:***
```
rc-oda-access = NONE
```

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 2;
```

***Distribution Rules:*** Standard

***Checks:***
```
/*RULE about Glamsdnst.values: */

Glamsdnst is_in {0 thru 15};
```

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# Glanalm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glanalm | LR | DMuns7 |

### 1.1 Glanalm

891/CCC *ANSI*® Transaction Capabilities Application Part (TCAP) query software alarm threshhold

### 1.2 Description

Glanalm: Indicates the *ANSI*® TCAP query software alarm threshold. Every fifteen minutes, counts of the number of *ANSI*® TCAP queries attempted and the number of queries with reply valid are sent to the direct signaling - system process (DS SP). The *ANSI*® TCAP query success rate is calculated from these counts and is compared versus Glanalm. If Glanalm is either 0 or less than the success rate, no violation has occurred against the threshold . Glanalm is a TCA specifiable value, with a range of 0 - 100 and a default of 95. See global parameter Glanmin.

Every 15 minutes

```
if total ANSI® TCAP queries > Glanmin
then
  if (successful ANSI® TCAP queries / total ANSI® TCAP queries)
      *100 < Glanalm
  then
      TCA alarm message sent to ROP (Read Only Printer)
   endif
endif
```

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 95

***AM Initial Value:*** 95

***CMP Initial Value:*** 95

***RC/ODA Rules:*** The default value for this parameter is 95.

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 95;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glanalm.values: */
```

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```
Glanalm is_in {0 thru 100};
```

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# Glani_idx

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glani_idx | LR | DManitbl |

### 1.1 Glani_idx

ANI Table Last Index

### 1.2 Description

This parameter is being used by RC/V to keep track of last index that was used to populate the ANITBL relation. RC/V will use this parameter to determine the next available index value that will be used to populate and access ANITBL tuples.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC/V should equate unknown with zero and only allow 1 - 32767.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glani_idx.values: */

Glani_idx is_in {0 thru 32767};
```

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# Glani_sm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glani_sm | LR | DMmodule |

### 1.1 Fullname:

ANI Table Last SM

### 1.2 Description:

This parameter is being used by RC/V to keep track of last SM that was used to store the ANI table when no SM number is entered on view 8.50 by the service provider. RC/V will use this parameter to determine the next available SM that will be used during the automatic SM selection process for the ANI table.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC/V should equate unknown with zero and only allow 1 - 192.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glani_sm.values: */

Glani_sm is_in {0 thru 192};
```

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# Glanicnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glanicnt | LP | DMulong |

### 1.1 Fullname:

Global parameter Glanicnt

**Defines:**
db/DMcarr_val.h

### 1.2 Description:

This global parameter represents the number of ANI entries populated in RLanitbl tuples (all SM's).

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter will not be displayed on any views. When inserting tuples and the WARNING limit is reached a warning message will be displayed.

***Retrofit Rules:*** From 5e12 to 5e13, the number of ANI entries populated in RLanitbl tuples will be counted and put into this global.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* LP (CMP) */
        ;
```

***Checks:***
```
/* RULE about Glanicnt: */
function func() returning int
begin
        anicnt = 0;
        for pcr in sm_all
        begin
                for anitbl in RLanitbl on pcr
                begin
```

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```
                        for i in {0 thru 7}
                        begin
                                if (anitbl.ldpcar[i].tdx_carr != $NULL_BCARID) then
                                begin
                                        anicnt = anicnt + 1;
                                end
                        end
                end
        end
        return anicnt;
end

begin
        Glanicnt on cmp == func();
end
```

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# Glanidxcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glanidxcnt | | |

### 1.1 Fullname:

Global parameter Glanidxcnt

**Defines:**
db/DMcarr_val.h

### 1.2 Description:

This global parameter represents the number of ANI entries populated in view 8.58/8.59 (all SM's).

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter will not be displayed on any views. When inserting tuples and the FCANIIDXWARN limit is reached, an error message will be issued. RC will not allow any insertions if the FCANIIDXMAX limit is reached.

***Retrofit Rules:*** This parameter should be recalculated during a retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* LP (CMP) */
        ;
```

***Checks:***
```
/* RULE about Glanidxcnt: */

begin
        let cnt0 = count {anidx000 in RLanidx000 on sm_all};
        let cnt1 = count {anidx001 in RLanidx001 on sm_all};
        let cnt2 = count {anidx002 in RLanidx002 on sm_all};
        let cnt3 = count {anidx003 in RLanidx003 on sm_all};
        let cnt4 = count {anidx004 in RLanidx004 on sm_all};
```

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```
let cnt5 = count {anidx005 in RLanidx005 on sm_all};
let cnt6 = count {anidx006 in RLanidx006 on sm_all};
let cnt7 = count {anidx007 in RLanidx007 on sm_all};
let cnt8 = count {anidx008 in RLanidx008 on sm_all};
let cnt9 = count {anidx009 in RLanidx009 on sm_all};
let cnt10 = count {anidx010 in RLanidx010 on sm_all};
let cnt11 = count {anidx011 in RLanidx011 on sm_all};
let cnt12 = count {anidx012 in RLanidx012 on sm_all};
let cnt13 = count {anidx013 in RLanidx013 on sm_all};
let cnt14 = count {anidx014 in RLanidx014 on sm_all};
let cnt15 = count {anidx015 in RLanidx015 on sm_all};
let cnt16 = count {anidx016 in RLanidx016 on sm_all};
let cnt17 = count {anidx017 in RLanidx017 on sm_all};
let cnt18 = count {anidx018 in RLanidx018 on sm_all};
let cnt19 = count {anidx019 in RLanidx019 on sm_all};
let cnt20 = count {anidx020 in RLanidx020 on sm_all};
let cnt21 = count {anidx021 in RLanidx021 on sm_all};
let cnt22 = count {anidx022 in RLanidx022 on sm_all};
let cnt23 = count {anidx023 in RLanidx023 on sm_all};
let cnt24 = count {anidx024 in RLanidx024 on sm_all};
let cnt25 = count {anidx025 in RLanidx025 on sm_all};
let cnt26 = count {anidx026 in RLanidx026 on sm_all};
let cnt27 = count {anidx027 in RLanidx027 on sm_all};
let cnt28 = count {anidx028 in RLanidx028 on sm_all};
let cnt29 = count {anidx029 in RLanidx029 on sm_all};
let cnt30 = count {anidx030 in RLanidx030 on sm_all};
let cnt31 = count {anidx031 in RLanidx031 on sm_all};
let cnt32 = count {anidx032 in RLanidx032 on sm_all};
let cnt33 = count {anidx033 in RLanidx033 on sm_all};
let cnt34 = count {anidx034 in RLanidx034 on sm_all};
let cnt35 = count {anidx035 in RLanidx035 on sm_all};
let cnt36 = count {anidx036 in RLanidx036 on sm_all};
let cnt37 = count {anidx037 in RLanidx037 on sm_all};
let cnt38 = count {anidx038 in RLanidx038 on sm_all};
let cnt39 = count {anidx039 in RLanidx039 on sm_all};
let cnt40 = count {anidx040 in RLanidx040 on sm_all};
let cnt41 = count {anidx041 in RLanidx041 on sm_all};
let cnt42 = count {anidx042 in RLanidx042 on sm_all};
let cnt43 = count {anidx043 in RLanidx043 on sm_all};
let cnt44 = count {anidx044 in RLanidx044 on sm_all};
let cnt45 = count {anidx045 in RLanidx045 on sm_all};
let cnt46 = count {anidx046 in RLanidx046 on sm_all};
let cnt47 = count {anidx047 in RLanidx047 on sm_all};
let cnt48 = count {anidx048 in RLanidx048 on sm_all};
let cnt49 = count {anidx049 in RLanidx049 on sm_all};
let cnt50 = count {anidx050 in RLanidx050 on sm_all};
let cnt51 = count {anidx051 in RLanidx051 on sm_all};
let cnt52 = count {anidx052 in RLanidx052 on sm_all};
let cnt53 = count {anidx053 in RLanidx053 on sm_all};
let cnt54 = count {anidx054 in RLanidx054 on sm_all};
let cnt55 = count {anidx055 in RLanidx055 on sm_all};
let cnt56 = count {anidx056 in RLanidx056 on sm_all};
let cnt57 = count {anidx057 in RLanidx057 on sm_all};
let cnt58 = count {anidx058 in RLanidx058 on sm_all};
```

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```
        let cnt59 = count {anidx059 in RLanidx059 on sm_all};

        Glanidxcnt on cmp == cnt0 + cnt1 + cnt2 + cnt3 + cnt4 +
                             cnt5 + cnt6 + cnt7 + cnt8 + cnt9 +
                             cnt10 + cnt11 + cnt12 + cnt13 + cnt14 +
                             cnt15 + cnt16 + cnt17 + cnt18 + cnt19 +
                             cnt20 + cnt21 + cnt22 + cnt23 + cnt24 +
                             cnt25 + cnt26 + cnt27 + cnt28 + cnt29 +
                             cnt30 + cnt31 + cnt32 + cnt33 + cnt34 +
                             cnt35 + cnt36 + cnt37 + cnt38 + cnt39 +
                             cnt40 + cnt41 + cnt42 + cnt43 + cnt44 +
                             cnt45 + cnt46 + cnt47 + cnt48 + cnt49 +
                             cnt50 + cnt51 + cnt52 + cnt53 + cnt54 +
                             cnt55 + cnt56 + cnt57 + cnt58 + cnt59;

end
```

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# Glanitbl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glanitbl | FR | DManitbl |

### 1.1 ANI-table

ANI-table

### 1.2 Description

This parameter gives the highest value of anitbl currently used in RLanimod. Its purpose is to automatically assign anitbl values so the customer does not have to.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** When a new tuple is added to RLanimod, recent change or ODA will add one to value stored in Glanitbl to use as the value for anitbl, then store this new value in Glanitbl.

***Retrofit Rules:*** For initialization and retrofit, Glanitbl will equal the highest value that appears in RLanimod.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glanitbl.values: */

        /* no check */ ;
```

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# Glanmin

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glanmin | LR | DMuns7 |

### 1.1 Glanmin

Minimum Number of 891/CCC *ANSI*® TCAP Queries Attempted

### 1.2 Description

Glanmin: Indicates the minimum number of *ANSI*® TCAP queries which must be attempted in a fifteen minute period in order for *ANSI*® TCAP software alarm calculations to proceed. Every fifteen minutes, a count of the number of *ANSI*® TCAP queries attempted is collected in the AM/DLN and sent in a message buffer to the DS SP. If this count is less than Glanmin, no further alarm calculations are performed. This is a TCA specifiable value with a range of 1 - 64 and a default of 40.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 40

***AM Initial Value:*** 40

***CMP Initial Value:*** 40

***RC/ODA Rules:*** The default value for this parameter is 40.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 40;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glanmin.values: */

Glanmin is_in {1 thru 64};
```

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# Glannc_cplrs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glannc_cplrs | FP | DMushort |

### 1.1 Glannc_cplrs

Announcement Couplers

### 1.2 Description

The Glannc_cplrs global parameter contains the current number of couplers required on this SM for announcement trunks (non-RAF). Its value is maintained over all initializations. The RLfc_anounce trigger function updates the value when announcement trunks are inserted, updated, and deleted on RC View 5.5.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as announcement trunks are inserted, updated, and deleted. Its value can increase and decrease.

***Retrofit-ODA Rules:*** This value should be recalculated during a generic retrofit.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glannc_cplrs.values: */

/* RULE about Glannc_cplrs: */
function func() returning int
begin
        annc_cplrs = 0;
```

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```
        for fc_anounce in RLfc_anounce
        begin
                if (fc_anounce.maxcalls == 0) then
                begin
                        annc_cplrs = annc_cplrs + 60;
                end
                else
                begin
                        annc_cplrs = annc_cplrs + fc_anounce.maxcalls;
                end
        end

        return annc_cplrs;
end

if (current_pcr is_in sm_all) then
begin
        Glannc_cplrs is_in {0 thru 65535};
        Glannc_cplrs == func();
end
```

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# Glanrfh

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glanrfh | FR | DMuns8 |

### 1.1 Glanrfh

Global Office Parameter Glanrfh

### 1.2 Description

Glanrfh defines the RAF holding time in seconds. If the Glmecrp >= Glanrfh OTP will not hold the RAF between iterations of the MECH holding announcement. This global will be fine-tuned during development. The customer will not see it; and ODA will populate it to the default value.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 4;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glanrfh.values: */

Glanrfh is_in {0 thru 255};
```

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# Glanstim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glanstim | FR | DMshort |

### 1.1 Glanstim

Global Office Parameter Glanstim

### 1.2 Description

Glanstim indicates the timer while waiting for the CCS Answer message. Glanstim is specified in minutes.

Zero indicates that no answer timing is done. The value should be the same in every SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA should populate with default value for new office.

***Retrofit Rules:*** ODA should preserve value from data base during retrofits and growths.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glanstim.values: */

Glanstim is_in {0, 2, 3, 4};
```

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# Glaocraf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaocraf | FR | DMushort |

### 1.1 Glaocraf

Number of RAF members in AOC announcement logical service group.

### 1.2 Description

This global is used to keep a count of the number of members of the AOC Logical Service Group (LSG) which are from RAFs, as opposed to from SASs. It is updated every time a RAF member is added or removed from the AOC LSG.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global is read-only on RC/V view 5.1. It is updated internally from RC/V view 5.5 every time a member is added or removed from the LSG.

***Retrofit Rules:*** None.

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
        for rt_fixedri in RLrt_fixedri
            where (rt_fixedri.ritype == RT_OSPSAOC)
        begin
                find == 1 rt_routing in RLrt_routing
                    where (rt_fixedri.ri == rt_routing.route_x)
                when_found
                begin
                        find == 1 rt_trkg in RLrt_trkg
                            where (rt_trkg.grpnum == rt_routing.portgrp.grpnum)
                        when_found
sas_92_1:                   Glaocraf == rt_trkg.raf_mbrs;
                end
        end
```

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# Glaocrp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaocrp | FR | DMuns8 |

### 1.1 Glaocrp

Global Office Parameter Glaocrp

### 1.2 Description

Glaocrp is the repeat interval threshhold in seconds which determines whether the stack should be released during the repeat interval. If the repeat interval is Glaocrp seconds or less, the stack will be retained, otherwise the stack will be released. This global will be fine-tuned during development. The customer will not see it; and ODA will populate it to the default value.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 4;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glaocrp.values: */

Glaocrp is_in {0 thru 255};
```

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# Glap_option

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glap_option | LRFR | DMap_opts |

### 1.1 Glap_option

Global Office Parameter Glap_option

### 1.2 Description:

This parameter indicates whether a *5ESS*®-2000 switch has one of these types of Application Processor (AP) setups.

```
AP_NO   - No APs on this switch
AP_AM   - Only AM IOP APs on this switch
AP_SM   - Only ISDN SM APs on this switch
AP_AMSM - Both AM IOP and ISDN SM APs on this switch
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** AP_NO

***AM Initial Value:*** AP_NO

***CMP Initial Value:*** AP_NO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In the retrofit from 5E3 to 5E4 (in 5E3 this was a DMBOOL) the following applies:

| 5E3 Value | 5E4 Value |
|---|---|
| DBNO | AP_NO |
| DBYES | AP_AM |

```
5e10(1) to 5E11(1): See Glap_optio.V
```

***Default Rules:***

```
default = AP_NO;
```

***Distribution Rules:***

```
/* standard */
```

***Import:***

```
chk_apperm.R
```

***Checks:***

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```
/* RULE about Glap_option.values: */

BCap_optio:  if (c_aperm(PVMSKVCDX, CONFIGMAX)) then
begin
        /* For VCDX SM's, Glap_option must equal AP_SM or AP_NO */
        Glap_option is_in { AP_SM, AP_NO };
end
else
begin
        /* Non-VCDX case */
        Glap_option is_in {AP_NO, AP_AM, AP_SM, AP_AMSM};
end
```

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# Glapbnum

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapbnum | FP | DMshort |

### 1.1 Fullname:

Global Office Parameter Glapbnum

### 1.2 Description:

The Glapbnum global parameter contains an SM's current rlAPB tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as OSPS and Commercial ACD terminals are assigned. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glapbnum.values: */

if (current_pcr is_in sm_all) then
begin
/*      Glapbnum is_in {0 thru (DBQNAPB - DBSFAPB)};    */
        Glapbnum is_in {0 thru (4095 - 2)};
```

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```
/* RULE about Glapbnum: */

if (runucv) then
begin
        find == 1 modatt in RLmodatt
        where (modatt.module == current_pcr)
        when_found
        begin
             /* psm_apb is 1500 for PSMs, otherwise 0 */
                let psm_apb = (modatt.osps_sm == DBYES ? 1500 : 0);

             /* raf_apb is 640 for non-PSMs with RAF, otherwise 0 */
                let raf_apb = (modatt.osps_sm == DBYES ? 0 :
                   (count({lprtaccs in RLlprtaccs}) > 0 ? 640 : 0));

                let apbnum = psm_apb + raf_apb;

/*              if (apbnum + Gliapb <= (DBQNAPB - DBSFAPB)) then  */
                if (apbnum + Gliapb <= (4095 - 2)) then
                       Glapbnum >= apbnum + Gliapb;
                else
/*                     Glapbnum == DBQNAPB - DBSFAPB;  */
                       Glapbnum == 4095 - 2;
        end
end

end
```

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# Glapbuf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapbuf | FP | DMushort |

### 1.1 Fullname:

Count of RLapbuf tuples present in an SM

### 1.2 Description:

The Glapbuf global parameter contains an SM's current RLapbuf tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions. This global parameter is used for Software Resource Engineering.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as Application Processors are grown and degrown.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glapbuf.values: */

if (current_pcr is_in sm_all) then
begin
        /* Glapbuf is_in { 0 thru (DBQNAPBUF - DBSFAPBUF) }; */
        Glapbuf is_in { 0 thru (1023 - 0) };
end
```

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```
/* RULE about Glapbuf: */

if (runucv) then begin
if (current_pcr is_in sm_all) then
begin
      if (Glapsmnum > 0) then
      begin
           let apbuf = 50 + (20 * Glapsmnum);

/*         if (apbuf + Gliapbuf <= (DBQNAPBUF - DBSFAPBUF)) then */
           if (apbuf + Gliapbuf <= (1023 - 0)) then
                   Glapbuf >= apbuf + Gliapbuf;
           else
/*                 Glapbuf == DBQNAPBUF - DBSFAPBUF; */
                   Glapbuf == 1023 - 0;
      end
      else
      begin
           Glapbuf >= 0;
      end
end
end
```

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# Glapdu

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapdu | FP | DMushort |

### 1.1 Fullname:

Count of rlAPDU tuples present in SM

### 1.2 Description:

This global parameter contains the count of rlAPDU tuples which are present in a given SM. This is done to allow engineering and auditing of rlAPDU.

For an SM loaded with the ID303APP (IDCU) or ISDNBASE (ATS) loadable packages:

The number of rlAPDU tuples is nominally based on the number of rlRTLB tuples, the number of TR303 RTs present in the SM, a fixed number, 60, for Automatic Terminal Setup (ATS) software, and the incremental global parameter (Gliapdu).

If there are no TR303 RTs in the SM then Glapdu is equal to 60 (30 per ATS_DCOLL terminal process) + Gliapdu. This is the default number of tuples required for ATS.

If there are TR303 RTs in the SM, then the TR303 component for calculating the number of rlAPDU tuples is dependent on the number of TR303 rlRTLB tuples in the SM. Note that the nomenclature xxx:yyy means the value for both the SM (xxx) and SM-2000 (yyy). The total number of rlAPDU tuples when TR303 RTs are present is determined by:

```
    Number of TR303 rlRTLB tuples (A) + 96 (B) + 4 (C) + 60 (D) +
    Gliapdu up to the maximum of 359:507 (limit of rlAPDU tuples
    in SM) which is then rounded up to the next power of 2
    less 1 (511).

    Where:
      A = The number of TR303 rlRTLB tuples is derived to be
          4 (E) * number of TR303 RTs (Glrt303cnt) + 22:54 (A')
      A'= Maximum number of TPs statistically possible for 1 RT:
          1 (a) + 34:66 (b) - 11 (c) + 2 (d) - 4 (E) = 22:54
            a = Maximum TR303 rlRTLB tuples set aside for recovery
            b = Maximum number of TR303 TPs per SM possible
            c = The maximum number of concurrent TR303 manual procces
                ses is not realistic, so take them away
            d = Realistic maximum number of TR303 manual jobs to a
                given RT
      B = Maximum number of messages allowed to be queued to any
          single TR303 application TP (PCAPP_PDU_MAX)
      C = Maximum TR303 rlAPDU tuples set aside for recovery
      D = Number of ATS rlAPDU tuples
      E = Number of TR303 TPs per each additional RT

For an SM not loaded with the ID303APP (IDCU) and ISDNBASE (ATS)
loadable packages:
```

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```
The number of rlAPDU tuples is 0.
```

Note that the number of operational/grow TR303 RTs in the SM is available in the Glrt303cnt global parameter.

Note that the customer can increase the value of this global parameter by increasing the incremental global parameter (Gliapdu).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter should be administered by ODA and TM triggers. It is not administered by RC.

***Retrofit Rules:*** This count should be recalculated during a retrofit based upon the poprule checks for the new generic.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***

```
env.R
```

***Checks:***

```
/* RULE about Glapdu.values: */

/* let MAX_TUPLES = DBQNAPDU - DBSFAPDU; */
let MAX_TUPLES = 511 - 0;

if (current_pcr is_in { 1 thru 192 }) then
begin
        Glapdu is_in {0 thru MAX_TUPLES};
end

/* RULE about Glapdu: */

if (runucv) then
begin
if (current_pcr is_in { 1 thru 192 }) then
begin
```

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```
if ((count({lpconf in RLlpconfig
        where(lpconf.smconfig == Glconfigname &&
              lpconf.package == GLID303APP)}) > 0) ||
   (count({lpconf in RLlpconfig
        where(lpconf.smconfig == Glconfigname &&
              lpconf.package == GLISDNBASE)}) > 0)) then
/*
 *  SM is loaded with ID303APP loadable package (IDCU) or
 *  ISDNBASE loadable package (ATS).
 */
begin
   let ATS_TUPLES = 60;

   if (Glrt303cnt == 0) then
   begin
        /* There are no operational/growth TR303 RTs. */

        /*
         *  If the calculated value exceeds the maximum
         *  number of tuples allowed (MAX_TUPLES), set the
         *  global parameter to the maximum number of tuples.
         */
        if (ATS_TUPLES + Gliapdu < MAX_TUPLES) then
        begin
                Glapdu == ATS_TUPLES + Gliapdu;
        end
        else
        begin
                Glapdu == MAX_TUPLES;
        end
   end
   else
   begin
        /* There is at least 1 operational/growth TR303 RT. */
        find == 1 modatt in RLmodatt
        where (modatt.module == Gl_pcrid)
        when_found
        begin
           if (modatt.unittype is_in {SMSM2000, SMSM2005})
           then
           begin
                /* SM-2000 */

                /*
                 *  If the calculated value exceeds the
                 *  maximum number of tuples allowed (
                 *  MAX_TUPLES), set the global parameter
                 *  to the maximum number of tuples.
                 */
                if (4 * Glrt303cnt + 54 + 96 + 4 +
                    ATS_TUPLES + Gliapdu < MAX_TUPLES) then
                begin
                    Glapdu == 4 * Glrt303cnt + 54 + 96 + 4 +
                              ATS_TUPLES + Gliapdu;
```

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```
                        end
                        else
                        begin
                                Glapdu == MAX_TUPLES;
                        end
                    end
                    else
                    begin
                        /* SM */

                        /*
                         *  If the calculated value exceeds the
                         *  maximum number of tuples allowed
                         *  (MAX_TUPLES), set the global parameter
                         *  to the maximum number of tuples.
                         */
                        if (4 * Glrt303cnt + 22 + 96 + 4 +
                            ATS_TUPLES + Gliapdu < MAX_TUPLES) then
                        begin
                                Glapdu == 4 * Glrt303cnt + 22 + 96 + 4 +
                                          ATS_TUPLES + Gliapdu;
                        end
                        else
                        begin
                                Glapdu == MAX_TUPLES;
                        end
                    end
                end
            end
        end
        else
        /*
         *  SM is not loaded with ID303APP loadable package (IDCU)
         *  and ISDNBASE loadable package (ATS).
         */
        begin
                Glapdu == 0;
        end
end
end
```

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# Glapivc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapivc | FP | DMushort |

### 1.1 Glapivc

Global office parameter Glapivc.

### 1.2 Description

This parameter is used by the Inter_Switch Voice Messaging (ISVM) feature in 5E7. It keeps track of the number of APs that are attached to an ISDN SM and are used for ISVM.

This parameter, Glapivc, is the number of APs being used by ISVM on an ISDN SM. Since this value will only be populated for ISDN SMs, the value of Glapivc for a given ISDN SM will equal the number of tuples in the CMAPDATA relation for that SM that has the use_isvm attribute set to DBYES.

This parameter is Recent Change supported and generated but is not displayed on any RC view.

The following PRL code assists in the description:

```
      int i;          /* counter */
      for every tuple in RLcmapdata
      begin
            i = 0;
            for every TUPcmapdata in RLcmapdata
            where (TUPcmapdata.module equals RLcmapdata.module and
                  TUPcmapdata.use_isvm equals DBYES)
            begin
                  i = i + 1;
            end
            Glapivc must_equal i on sm(RLcmapdata.module);
      end

RC-ACCESS:
      No display; RC will update by incrementing/
      decrementing the parameter's value when an AP
      is designated/removed for ISVM.

ODA-ACCESS:
      No - does not appear on ODA form.  ODA must
      increment/decrement the parameter's value
      when an AP is designated/removed for ISVM.
```

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***TRIGGER:*** FCimsmwida

***Classification:*** OPTION

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***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA must set this parameter so that the MSS System Process will create the dynamic relation RLmsmwida for the ISVM during SM initialization. If this parameter is set to 0, no dynamic relation for ISVM will be created and no OSDS messages will be sent between the MSS SP and the TCAP SP to control a client's MWI on another switch.

***Retrofit Rules:*** Initially for 5E7, Glapivc should be set to 0.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glapivc.values: */

if (current_pcr is_in sm_all) then
begin
        find == 1 modatt in RLmodatt
        where ( modatt.module == current_pcr )
        when_found
        begin
                if (modatt.unittype == SMSM2000 ) then
                begin
/*                      Glapivc is_in {0 thru AVAPSMMAX};  */
                        Glapivc is_in {0 thru 30};
                end
                else
                begin
                        Glapivc is_in {0 thru 10};
                end
        end
end

/* Check if APBASE package is loaded when Glapivc is non zero: */

if (current_pcr is_in sm_all) then
begin
if (Glapivc != 0) then
begin
        count({lpconf in RLlpconfig
                where ((lpconf.smconfig == Glconfigname) &&
                (lpconf.package == GLAPBASE)) }) != 0;
end
end
```

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```
/* RULE about Glapivc: */
if (current_pcr is_in sm_all) then
begin
        let num_isvm = count {cmapdata in RLcmapdata
        where (cmapdata.use_isvm == DBYES &&
                cmapdata.module == current_pcr)};
        Glapivc == num_isvm;
end
```

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# Glapnumb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapnumb | LR | DMuns7 |

### 1.1 Glapnumb

Global Office Parameter Glapnumb

### 1.2 Description

This parameter is used by the Applications Processor Communications capability for 5E4. It is used for measurements and is a count of the total number of APs on the *5ESS* ®-2000 switch.

The range for this parameter is 0 - 99. (96 - ISDN SM APs and 3 - IOP APs) For VCDX, the range is 0-10 ISDN APs with an SM and 0-30 ISDN APs with an SM-2000. This is asserted in the poprules for Glapsmnum. IOP APs are not supported.

This parameter is Recent Change supported and generated but is not displayed on any RC view.

The Glapnumb is the total number of APs for the Switch while Glapsmnum is for each SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** The ODA must set the value of the Glapnumb to the total number of APs the Switch will support in order for AP communication capability to work properly.

Glapnumb = sum of Glapsmnum for all SMs
plus APs supported by IOP.

OR Glapnumb = Glapsmnum for VCDX.

***Retrofit Rules:*** 5E10(1) to 5E11(1):
See Glapnumb.V

***Default Rules:*** none

***Distribution Rules:***
```
/* standard */
```

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***Import:***

```
"chk_apperm.R"
```

***Checks:***

```
/* RULE about Glapnumb.values: */

if (c_aperm(PVMSKVCDX, CONFIGMAX)) then
begin
   /* This is a VCDX office; determine the VCDX SM number. */
   find == 1 db_amgpd in RLdb_amgpd
   where(db_amgpd.grp_type == GPDVCDX && db_amgpd.grp_id == 0)
   when_found
   begin
      /* Find the VCDX SM number; only 1 SM bit will be set in RLdb_amgpd */
      for sm_number in { 1 thru 192 }
      begin
         if(db_amgpd.pcr_map[(sm_number/32) + 1]{sm_number%32} == 1) then
         begin
               Glapnumb == Glapsmnum on sm_number;
         end
      end
   end
end
else
begin
        Glapnumb is_in { 0 thru 99 };
end
```

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# Glapsdn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapsdn | LR | DMbool |

### 1.1 Glapsdn

Global Office Parameter Glapsdn

### 1.2 Description

This parameter is used to indicate that this office serves as an Action Point (ACP) for the Software Defined Network (SDN).

An office can not be an ACP and a Service Switching point (SSP) concurrently. Also, this parameter is dependent on Glccs.

All SDN ACP offices must be equipped with a Common Network Interface (CNI) to provide Common Channel Signaling (CCS) transport.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** NONE

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** This parameter must be set to DBNO if the global parameter Glssp is set to DBYES.

This parameter must not be set to DBYES if Glccs indicates no CNI is equipped.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glapsdn.values: */

if (Glccs is_in {CC_NOPLATFORM, CC_PSUPLATFORM}) then
begin
        Glapsdn == DBNO;
```

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```
end

if (current_pcr is_in {am, cmp}) then
begin
        if (Glssp == DBYES) then
        begin
                Glapsdn == DBNO;
        end
end
```

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# Glapsmnum

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapsmnum | FP | DMapsmnum |

### 1.1 Glapsmnum

Global Office Parameter Glapsmnum

### 1.2 Description

This Glapsmnum global parameter contains an SM's count of Application Processors (AP)s. It is also equal to the number of tuples in the RLapsite static data relation for that SM.

This parameter is Recent Change supported and generated but is not displayed on any RC view.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA must set this parameter accordingly for the SM to create the database for the AP communication during the SM initialization. If this parameter is set to zero, no dynamic relations for the AP communication will be created and there will be no communication between the SM and APs.

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glapsmnum: */

if (current_pcr is_in sm_all) then
begin
        let num_tup = count { apsite in RLapsite };

        Glapsmnum >= num_tup;
```

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```
        find == 1 modatt in RLmodatt
        where (modatt.module == current_pcr)
        when_found
        begin
                if (modatt.unittype == SMSM2000) then
                        Glapsmnum <= 30;
                else
                        Glapsmnum <= 10;
        end
end
```

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# Glapspb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapspb | FP | DMushort |

### 1.1 Fullname:

Count of RLapspb tuples present in an SM

### 1.2 Description:

This Glapspb global parameter contains the number of tuples in each of the following dynamic data relations for a given SM: RLapspb, RLepkb and RLrmb. Its value is maintained over all initializations.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA. It does not get updated. It will never increase or decrease.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glapspb: */

if ( current_pcr is_in sm_all ) then
begin
     if ( Glapsmnum > 0 ) then
     begin
          find == 1 modatt in RLmodatt
          where ( modatt.module == current_pcr )
          when_found
          begin
               if ( modatt.unittype is_in {SMSM2000, SMSM2005} ) then
```

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```
/*                    Glapspb == DBQNAPSPB - DBSFAPSPB; */
                      Glapspb == 31 - 0;
                else
                      Glapspb == 17;
           end
     end
     else
     begin
                 Glapspb == 0;
     end
end
```

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# Glapt_auto

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapt_auto | LR | DMbool |

### 1.1 Glapt_auto

Global Office Parameter Glapt_auto

### 1.2 Description

For projects which allow automatic removal of faulty trunks by Automatic progression testing DBYES should be set. For projects which do not allow automatic removal of faulty trunks by automatic progression testing, DBNO should be set. In Saudi Arabia and the Netherlands it must be set to DBNO. Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** The current value of the parameter must be retained for generic retrofits.

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glapt_auto.values: */

        /* no check */ ;
```

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# Glaptdur

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaptdur | LR | DMshort |

### 1.1 Glaptdur

Global Office Parameter Glaptdur

### 1.2 Description

Duration of time that automatic progression testing should run once started. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glaptdur.values: */

        /* no check */ ;
```

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# Glaptfri

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaptfri | LR | DMbool |

### 1.1 Glaptfri

Global Office Parameter Glaptfri

### 1.2 Description

No population rules available.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glaptfri.values: */

        /* no check */ ;
```

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# Glapthtod

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapthtod | LR | DMshort |

### 1.1 Glapthtod

Global Office Parameter Glapthtod

### 1.2 Description

Hours past midnight that ATPT should start. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glapthtod.values: */

        /* no check */ ;
```

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# Glaptmon

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaptmon | LR | DMbool |

### 1.1 Glaptmon

Global Office Parameter Glaptmon

### 1.2 Description

No population rules available.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glaptmon.values: */

        /* no check */ ;
```

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# Glaptmtod

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaptmtod | LR | DMshort |

### 1.1 Glaptmtod

Global Office Parameter Glaptmtod

### 1.2 Description

Minutes past specified hour that APT starts. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 5

***CMP Initial Value:*** 5

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glaptmtod.values: */

        /* no check */ ;
```

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# Glaptsat

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaptsat | LR | DMbool |

### 1.1 Glaptsat

Global Office Parameter Glaptsat

### 1.2 Description

No population rules available.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glaptsat.values: */


        /* no check */ ;
```

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# Glaptsun

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaptsun | LR | DMbool |

### 1.1 Glaptsun

Global Office Parameter Glaptsun

### 1.2 Description

No population rules available.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glaptsun.values: */

        /* no check */ ;
```

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# Glaptthr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaptthr | LR | DMbool |

### 1.1 Glaptthr

Global Office Parameter Glaptthr

### 1.2 Description

No population rules available.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glaptthr.values: */

        /* no check */ ;
```

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# Glapttue

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapttue | LR | DMbool |

### 1.1 Glapttue

Global Office Parameter Glapttue

### 1.2 Description

No population rules available.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glapttue.values: */

        /* no check */ ;
```

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# Glaptwed

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaptwed | LR | DMbool |

### 1.1 Glaptwed

Global Office Parameter Glaptwed

### 1.2 Description

No population rules available.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glaptwed.values: */

        /* no check */ ;
```

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# Glaptyp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaptyp | FP | DMaptyp |

### 1.1 Fullname:

Automated position protocol

### 1.2 Description:

This determines the status, or protocol, of Automated Positions (AP) in this office.

The OSPS Automated Position automates the handling of 0+ dialed calls with collect, third number, card, and person-to-person billing. Two different protocols are provided for delivering calls to the APs: one stage and two stage. In a one stage office, APs provide automation of calling card, collect, third number, and person-to-person billing. The one stage protocol sends all 0+ dialed calls from line numbers selected by Originating Line Screening (OLS) on incoming trunks marked for AP handling.

In a two stage office, ACCS provides the automation for calling card billing, and the APs automate collect, third number, and person-to- person billing. In a two stage protocol, the caller is sent to an AP if the party fails to respond (timeout, flash, or dials 0) to the ACCS offering of calling card billing and the incoming trunk is marked for AP handling. In this situation, the AP then provides the secondary automation for collect, third number, and person-to-person billing. This is a secured feature.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** OAAP_NULL

***AM Initial Value:*** OAAP_NULL

***CMP Initial Value:*** OAAP_NULL

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = OAAP_OFF;
```

***Distribution Rules:***
```
        pcrlist = get_gpd_pcrlist (GPD_OPRT,2);
```

***Import:***
```
env.R,
PLgpd_defs.R
```

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***Checks:***

```
/* RULE about Glaptyp.values: */

        /* no check */ ;

/* RULE about Glaptyp: */
if ( current_pcr is_in sm_all) then
begin
let bool = (count { db_gpdus in RLdb_gpdus
where (db_gpdus.grp_type == GPD_OPRT &&
    db_gpdus.grp_id == 2 &&
    db_gpdus.module == Gl_pcrid)} == 1);
if (bool == true) then
begin
        if (Glospsta == DBNO) then
        begin
                if (runucv) then
                Glaptyp == OAAP_OFF;
        end
        else
        begin
                Glaptyp is_in {OAAP_OFF, OAAP_1STAGE, OAAP_2STAGE};
        end
end
else   /* This SM is not part of the distribution group */
begin
        if (runucv) then
        Glaptyp == OAAP_NULL;
end
end
```

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# Glapx_dat

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapx_dat | FR | DMsecond |

### 1.1

*Autoplex*® disconnect acknowledge timer

### 1.2 Description:

The Disconnect Acknowledge Timer (DAT) parameter is used for the *Autoplex*® application on the *5ESS*®-2000 switch. The DAT is used by the switch for a response from the Executive Cellular Processor (ECP). Time is measured in seconds.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***

```
if ( SFID130 == DBYES) then
begin
         Glapx_dat is_in {5 thru 25 by 1};
end
else
begin
         Glapx_dat == 20;
end
```

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 20;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glapx_dat.values: */

Glapx_dat is_in {5 thru 25};
```

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# Glapx_gsm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapx_gsm | LRFR | DMmodule |

### 1.1 Fullname:

AMPS DCS global SM number.

### 1.2 Description:

This parameter identifies the global SM that terminates the CCS NA7 links used by the AMPS DCS application to communicate with the *Autoplex*® network.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** ---

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** If this is a 5E AMPS DCS application, RC and ODA should set Glapx_gsm to the default value. If this is a VCDX AMPS DCS application, RC and ODA should set Glapx_gsm to the number of the SM when it contains the PSU hardware that terminates the CCS links and SCCP data used by the AMPS DCS application to communicate with the *Autoplex*® network.

***Retrofit Rules:*** /* None */

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
chk_apperm.R
```

***Checks:***
```
        Glapx_gsm is_in {0 thru 192};

        if (Glapxappl == DBYES) then
        begin
                /* Check if this is a VCDX office. */
                if (c_aperm(PVMSKVCDX, CONFIGMAX) == true) then
                begin
```

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```
                if (Glapx_gsm == 0) then
                begin
                        /* Verify no SCCP data exists. */
                        find == 0 gsm_net in RLgsm_net
                        where (gsm_net.gsm == Glapx_gsm);
                end
                else
                begin
                        /* Verify SCCP data exists. */
                        find == 1 gsm_net in RLgsm_net
                        where (gsm_net.gsm == Glapx_gsm);
                end
        end
        else
        begin
                Glapx_gsm == 0;
        end
end
else
begin
        Glapx_gsm == 0;
end
```

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# Glapx_icrt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapx_icrt | FR | DMsecond |

### 1.1 Glapx_icrt

*Autoplex*® incoming call response timer

### 1.2 Description

The Incoming Call Response Timer (ICRT) parameter is used for the *Autoplex*® application on the *5ESS*®-2000 switch. The ICRT is used by the *5ESS*®-2000 switch for a response from the Executive Cellular Processor (ECP). Time is measured in seconds.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 90

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***

```
if ( SFID130 == DBYES ) then
begin
     Glapx_icrt is_in {10 thru 120 by 1};
end
else
begin
     Glapx_icrt == 90;
end
```

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 90;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glapx_icrt.values: */

Glapx_icrt is_in {10 thru 120};
```

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# Glapx_ivtl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapx_ivtl | LRFR | DMshort |

### 1.1 Glapx_ivtl

*Autoplex*® Intervendor trunk process limit

### 1.2 Description

The Intervendor Trunk Limit (IVTL) parameter is used for the *Autoplex*® application on the *5ESS*®-2000 switch. The value of this global parameter will indicate the number of simultaneous *Autoplex*® Task Execution Process (ATEP) terminal processes available to the ECP when requesting to loop-back or restore the IVT trunks.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4

***AM Initial Value:*** 4

***CMP Initial Value:*** 4

***RC/ODA Rules:*** This global parameter is not supported by RC, but is supported by ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 4;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glapx_ivtl.values: */

Glapx_ivtl is_in {1 thru 20};
```

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# Glapx_mxhr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapx_mxhr | LRFR | DMshort |

### 1.1 Glapx_mxhr

Maximum duration of *Autoplex*® task

### 1.2 Description

This global variable will define the maximum time (in hours) that certain *Autoplex*® OA&M tasks will be allowed to run in the *5ESS*® -2000 switch.

This variable exists in the AM and is redundant in the SM. This variable will limit the duration of all tasks performed by the *Autoplex*® automatic task administrator (AATA).

Most short running AATA tasks that run from a few seconds to about 2 hours, have generic preset limits. Tasks in this category include (but are not limited to) Port Status, Carrier Group Alarm, Selective Trunk Reset, Trunk Group Status, Reset Resource, TIA Trunk Maintenance, and Unit Type Status requests.

Most other tasks (usually tasks that can run longer than 2 hours) are intended to be controlled by the global variable Glapx_mxhr. Tasks in this category include (but are not limited to) trunk test demand, intervender (IVT) loop-back, and dedicated switch connection (DSC) loop-back requests.

If Glapx_mxhr is less than any generic preset limit, then the Glapx_mxhr value will take precedence. If Glapx_mxhr is greater than any preset limit, then the preset limit will take precedence. Typically, short running tasks have generic preset limits. Longer running tasks are typically limited only by Glapx_mxhr.

The value of Glapx_mxhr is the maximum number of hours a task can operate (in hours). The range is 0 to 168 (168 corresponds to 7 days). A value of 0 is equivalent to 24 hours. (tasks that run longer than 168 hours will be terminated). The recommended default value is 24.

The purpose of this variable is to limit excess use of *5ESS*®-2000 switch system resources. It is not recommended that values greater than 24 hours be used. Values greater than 24 hours are intended for TEMPORARY use to permit debugging difficult problems (software or hardware).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 24

***AM Initial Value:*** 24

***CMP Initial Value:*** 24

***RC/ODA Rules:*** not applicable

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***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 24;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glapx_mxhr.values: */

Glapx_mxhr is_in {0 thru 168};
```

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# Glapx1_2sm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapx1_2sm | LRFR | DMulong |

### 1.1 Fullname:

*Autoplex*® first bit map

### 1.2 Description:

A bit map to indicate if SMs 1 through 31 have *Autoplex*® System Process.

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** On retrofit to 5E11 Glapx1_2sm should be populated on the SM with the same value of Glapx1_2sm on the AM/CMP.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /*
         * If an operational SM's configuration is either loaded
         * or SM-2000, and it is equipped with a pumpable LDSU,
         * the corresponding bit in the map is set to 1.
         */

        let param_array = {Glapx1_2sm, Glapx2_2sm, Glapx3_2sm, Glapx4_2sm,
                           Glapx5_2sm, Glapx6_2sm, Glapx7_2sm};

BCapx1_2sm:  for modatt in RLmodatt
        if ( modatt.eqstat == SMOPER &&
             modatt.imtype != SM5AM &&
             modatt.imtype != SM5PIM ) then
```

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```
        begin
                find == 1 smconf in RLsmconf
                where ( smconf.module   == modatt.module )
                when_found
                begin
                   if (smconf.smconfig is_in { CNFG002,
                                               CNFG003,
                                               CNFG2K00 }) then
                   begin
                        if ( smconf.smconfig is_in { CNFG002, CNFG003 } ) then
                        begin
                                let Find_Ckt =
                                find >= 1 tup in RLcktdata on modatt.module
                                where ( tup.utype  ==   SMDSU2
                                 &&     tup.type   ==   PCLDSU2
                                 &&     tup.eqstat ==   SMOPER
                                 &&     tup.cli is_in { 0x01, 0x03, 0x800009, 0x80001
9 } );

                                if ( Find_Ckt == true ) then
                                begin
                                        let map_bit = smconf.module % 32;
                                        let map_num = smconf.module / 32;
                                        param_array[map_num]{map_bit} == 1;
                                end
                                else
                                begin
                                        let map_bit = smconf.module % 32;
                                        let map_num = smconf.module / 32;
                                        param_array[map_num]{map_bit} == 0;
                                end
                        end
                        if ( smconf.smconfig == CNFG2K00 ) then
                        begin
                                let Find_Ckt =
                                find >= 1 tup in RLcktdata on modatt.module
                                where ( tup.utype  ==   SMLDSF3
                                 &&     tup.type   ==   PCLDSF3
                                 &&     tup.eqstat ==   SMOPER
                                 &&     tup.cli  is_in { 0x00, 0x01 } );

                                if ( Find_Ckt == true ) then
                                begin
                                        let map_bit = smconf.module % 32;
                                        let map_num = smconf.module / 32;
                                        param_array[map_num]{map_bit} == 1;
                                end
                                else
                                begin
                                        let map_bit = smconf.module % 32;
                                        let map_num = smconf.module / 32;
                                        param_array[map_num]{map_bit} == 0;
                                end
                        end
```

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```
            end
            else
            begin
                 let map_bit = smconf.module % 32;
                 let map_num = smconf.module / 32;
                 param_array[map_num]{map_bit} == 0;
            end
        end
end

Glapx1_2sm is_in { 0, 2 thru 0xfffffffe };
```

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# Glapx2_2sm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapx2_2sm | LRFR | DMulong |

### 1.1 Glapx2_2sm

*Autoplex*® second bit map

### 1.2 Description

This parameter is used as a bit map that represents SMs 32-63 having the *Autoplex*® System Process.

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** On retrofit to 5E11 Glapx2_2sm should be populated on the SM with the same value of Glapx2_2sm on the AM/CMP.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* rules are in Glapx1_2sm.R    */

        Glapx2_2sm is_in {0 thru 0xffffffff};
```

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# Glapx3_2sm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapx3_2sm | LRFR | DMulong |

### 1.1 Glapx3_2sm

*Autoplex*® third bit map

### 1.2 Description

This parameter is used as a bit map that represents SMs 64-95 having the *Autoplex*® System Process.

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** On retrofit to 5E11 Glapx3_2sm should be populated on the SM with the same value of Glapx3_2sm on the AM/CMP.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
 /* standard */
```

***Checks:***
```
/* rules are in Glapx1_2sm.R    */

  Glapx3_2sm is_in {0 thru 0xffffffff};
```

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# Glapx4_2sm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapx4_2sm | LRFR | DMulong |

### 1.1 Glapx4_2sm

*Autoplex*® fourth bit map

### 1.2 Description

This parameter is used as a bit map that represents SMs 96-127 having the *Autoplex*® System Process.

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** On retrofit to 5E11 Glapx4_2sm should be populated on the SM with the same value of Glapx4_2sm on the AM/CMP.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* rules are in Glapx1_2sm.R    */

Glapx4_2sm is_in {0 thru 0xffffffff};
```

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# Glapx5_2sm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapx5_2sm | LRFR | DMulong |

### 1.1 Glapx5_2sm

*Autoplex*® fifth bit map

### 1.2 Description

This parameter is used as a bit map that represents SMs 128-159 having the *Autoplex*® System Process.

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** On retrofit to 5E11 Glapx5_2sm should be populated on the SM with the same value of Glapx5_2sm on the AM/CMP.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* rules are in Glapx1_2sm.R    */

Glapx5_2sm is_in {0 thru 0xffffffff};
```

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# Glapx6_2sm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapx6_2sm | LRFR | DMulong |

### 1.1 Glapx6_2sm

*Autoplex*® sixth bit map

### 1.2 Description

This parameter is used as a bit map that represents SMs 160-191 having the *Autoplex*® System Process.

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** On retrofit to 5E11 Glapx6_2sm should be populated on the SM with the same value of Glapx6_2sm on the AM/CMP.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
 /* standard */
```

***Checks:***
```
 /* rules are in Glapx1_2sm.R    */

          Glapx6_2sm is_in {0 thru 0xffffffff};
```

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# Glapx7_2sm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapx7_2sm | LRFR | DMulong |

### 1.1 Glapx7_2sm

*Autoplex*® seventh bit map

### 1.2 Description

This parameter is used as a bit map that represents SM 192 having the *Autoplex*® System Process.

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** On retrofit to 5E11 Glapx7_2sm should be populated on the SM with the same value of Glapx7_2sm on the AM/CMP.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
        /* rules are in Glapx1_2sm.R    */

        Glapx7_2sm is_in {0 thru 0x00000001};
```

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# Glapxappl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapxappl | LRFR | DMbool |

### 1.1 Fullname:

*Autoplex*® application on the *5ESS*®-2000 switch.

### 1.2 Description:

This parameter is for the *Autoplex*® application on the *5ESS*®-2000 switch. It is set to DBYES for those *5ESS*® -2000 switch offices that act as the Digital Cellular Switch (DCS) of the *Autoplex*® configuration.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** RC/ODA should set Glapxappl to DBYES for an office that can act as the DCS of the *Autoplex*® configuration.

```
if (SFID130 == DBYES) then
begin
       Glapxappl == DBYES;
end
else
begin
       Glapxappl == DBNO;
end
Note: RC will set Glapxappl when the ECP PC is defined.
```

***Retrofit Rules:*** None.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* Glapxappl should be YES if the ECP PC is known. */
```

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```
if (Glecp_pc != 0) then
begin
        Glapxappl == DBYES;
end
else
begin
        Glapxappl == DBNO;
end
```

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# Glapxsm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glapxsm | FP | DMbool |

### 1.1 Glapxsm

*Autoplex*® SM system process indicator

### 1.2 Description:

This parameter is used to indicate whether this SM supports *Autoplex*® traffic (has the *Autoplex*® System Process).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glapxsm.values: */

BCapxsm: if (current_pcr is_in sm_all) then
begin
        let param_array = {Glapx1_2sm, Glapx2_2sm, Glapx3_2sm, Glapx4_2sm,
                           Glapx5_2sm, Glapx6_2sm, Glapx7_2sm};

        let map_bit = current_pcr % 32;
        let map_num = current_pcr / 32;

        if ( param_array[map_num]{map_bit} == 1 ) then
        begin
```

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```
                Glapxsm == DBYES;
        end
end
```

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# Glaq_max

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaq_max | FP | DMuns10 |

### 1.1 Glaq_max

Global office parameter Glaq_max

### 1.2 Description

This parameter specifies the maximum number of Autoquote Hotels served by this *5ESS*®-2000 switch. This parameter is used by recent change/verify (RC/V) and ODA. For additional information, see the poprules for RLfc_hotel.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global is not SM redundant, instead each SM will have the global but with possibly different contents.

This parameter is populated by ODA and RC but does not appear on any view.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then

begin

/* RULE about Glaq_max.values: */
Glaq_max is_in {0 thru 1000};
```

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```
end
```

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# Glaqdls

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaqdls | FP | DMuns5 |

### 1.1 Glaqdls

Global office parameter Glaqdls

### 1.2 Description

This parameter specifies the quantity of data link autoquote digital subscriber lines that are connected to the OSPS.

This global is not SM redundant, instead each SM will have the global but with possibly different contents.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is populated by ODA and RC but does not appear on any view.

Each SM's parameter is set to the number of RLDLDSL tuples in that SM with the servclass attribute set to OA_AQDSL.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then

begin

  /* RULE about Glaqdls.values: */
  Glaqdls is_in {0 thru 15};
```

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```
end
```

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# Glar_access

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glar_access | LRFP | DMaccess |

### 1.1 Glar_access

Global Office Parameter Glar_access

### 1.2 Description

This parameter is used to indicate LASS AR feature access. It indicates whether the feature is unavailable for use, whether subscription is required to access the AR feature, whether the feature is generally available or whether the feature is temporarily unavailable for use.

The AM parameter reflects the office standard value and is typically used to set the SM parameters after SM growth.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** UNAVAILABLE

***AM Initial Value:*** UNAVAILABLE

***CMP Initial Value:*** UNAVAILABLE

***RC/ODA Rules:*** It should initially be populated with UNAVAILABLE. The AM value for this parameter is defaulted to UNAVAILABLE.

The AM parameter is changed by RC/V only when the 'ALL' value is used for the SM key on the LASS Feature Access View.

***Retrofit Rules:*** ODA must retain its value across retrofits to post 5E5 generics.

***Default Rules:***
```
default = UNAVAILABLE;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glar_access.values: */

Glar_access is_in {UNAVAILABLE, GEN_AVAIL, SUBSCRIPTION, LASSNULL,
```

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```
TEMP_UNAVAIL};
```

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# Glar_aftrngbk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glar_aftrngbk | FR | DMuns10 |

### 1.1 Glar_aftrngbk

Global Office Parameter Glar_aftrngbk

### 1.2 Description

This parameter is used by both LASS Automatic Callback (AC) and LASS Automatic Recall (AR). It is used to indicate a wait period after an unanswered ringback before resuming scanning.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** It should initially be populated with 0. If Glar_maxrngbk is set to 1, this global office parameter should be set to 0. If the above-mentioned global office parameter has a value greater than 1, this parameter should have a value in the range of 3-12.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glar_aftrngbk.values: */

        /* no check */ ;
```

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# Glar_cancel

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glar_cancel | FR | DMrteidx |

### 1.1 Glar_cancel

Global Office Parameter Glar_cancel

### 1.2 Description

This parameter is used by LASS AR for feature cancellation announcement route index.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glar_cancel.values: */

        /* no check */ ;
```

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# Glar_confirm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glar_confirm | FR | DMrteidx |

### 1.1 Glar_confirm

Global Office Parameter Glar_confirm

### 1.2 Description

This parameter is used for the LASS AR confirmation announcement route index.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glar_confirm.values: */

        /* no check */ ;
```

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# Glar_dt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glar_dt | FR | DMuns8 |

### 1.1 Glar_dt

Limit the total amount of time a single camp-on can remain active.

### 1.2 Description

This parameter is used by LASS automatic callback and automatic recall to limit the total amount of time a single camp-on may remain active. The parameter value is in minutes, in increment of 15 minutes.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 180

***AM Initial Value:*** 180

***CMP Initial Value:*** 180

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 180;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glar_dt.values: */

Glar_dt is_in {120 thru 240 by 15};
```

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# Glar_featid

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glar_featid | FR | DMfid |

### 1.1 Glar_featid

Global Office Parameter Glar_featid

### 1.2 Description

This parameter contains a LASS AR feature ID for generally available feature access. This will be used by call processing to determine which tuple to read in the _cf and _opts relations for generally available features.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** Even though this parameter has a default of null specified for the generally available feature id, ODA should populate this parameter as a result of the ODA process which converts feature names to feature ids. This parameter is populated with the last 10 bits of RLfacname.facid which is accessed by using the generally available feature name, /LARGA, as the key.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glar_featid.values: */

        /* no check */ ;
```

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# Glar_longdeny

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glar_longdeny | FR | DMrteidx |

### 1.1 Glar_longdeny

Global Office Parameter Glar_longdeny

### 1.2 Description

This parameter is used by LASS AC and LASS AR as a long term denial announcement route index.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glar_longdeny.values: */

        /* no check */ ;
```

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# Glar_maxrngbk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glar_maxrngbk | FR | DMuns4 |

### 1.1 Glar_maxrngbk

Global Office Parameter Glar_maxrngbk

### 1.2 Description

This parameter is used by LASS Automatic Recall (AR) and LASS Automatic Callback (AC) to indicate the maximum number of ringback attempts per LASS AR or LASS AC invocation. It can range in value from one to twelve ringbacks and should initially be populated with one ringback.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 1;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glar_maxrngbk.values: */

Glar_maxrngbk is_in {1 thru 12};
```

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# Glar_rate

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glar_rate | FR | DMuns7 |

### 1.1 Glar_rate

LASS AC/AR Busy/Idle Scan Rate

### 1.2 Description

This parameter is used by LASS Automatic Callback (AC) and LASS Automatic Recall (AR) to indicate the busy/idle status scan rate. The parameter value is in seconds, in increments of 15 seconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 60

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 60;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glar_rate.values: */

Glar_rate is_in {30 thru 120 by 15};
```

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# Glar_rngcycls

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glar_rngcycls | FR | DMuns4 |

### 1.1 Glar_rngcycls

Global Office Parameter Glar_rngcycls

### 1.2 Description

This parameter is used to indicate the number of ring cycles for ringback for LASS AC and LASS AR. There can be from 2-7 cycles, each cycle being 6 seconds.

Glar_rngcycl is specified in cycles

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** It should initially be populated with 4 cycles.

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 4;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glar_rngcycls.values: */

Glar_rngcycls is_in {2 thru 7};
```

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# Glar_scanmode

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glar_scanmode | FR | DMscanmode |

### 1.1 Glar_scanmode

Global Office Parameter Glar_scanmode

### 1.2 Description

This parameter is used to indicate the first choice of scanning to be used in the office by LASS Automatic Callback (AC) or LASS Automatic Recall (AR). Originating or terminating are the choices of scanning.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** LASS_TERM

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** The parameter should initially be populated with the enum LASS_TERM for terminating scanning.

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = LASS_TERM;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glar_scanmode.values: */

Glar_scanmode is_in {LASS_ORIG, LASS_TERM};
```

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# Glar_tcap

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glar_tcap | FR | DMuns7 |

### 1.1 Glar_tcap

Global Office Parameter Glar_tcap

### 1.2 Description

This parameter is used to indicate the wait period for a response to LASS AC/AR CCS TCAP queries. The wait period should be from 1-10 seconds.

Glar_tcaps is specified in seconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 3

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** It should initially be populated with 3 seconds.

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 3;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glar_tcap.values: */

Glar_tcap is_in {1 thru 10};
```

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# Glar_timeout

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glar_timeout | FR | DMuns6 |

### 1.1 Glar_timeout

Global Office Parameter Glar_timeout

### 1.2 Description

This parameter is used by LASS AC and LASS AR to indicate the feature timeout interval when scanning is being performed. The length of scanning can be from 15-45 minutes, in one minute intervals.

Glar_timeout is specified in minutes.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 30

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** It should initially be populated with 30 minutes.

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 30;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glar_timeout.values: */

Glar_timeout is_in {15 thru 45};
```

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# Glarccf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glarccf | FR | DMrteidx |

### 1.1 Fullname:

LASS AC/AR Call Forwarding denial route index

### 1.2 Description:

This parameter is used by LASS Automatic Callback and LASS Automatic Recall as a call forwarding denial announcement route index. This parameter defaults to 0 to indicate that customers will receive the same reorder that they received in previous software release.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
AVextern.R
```

***Checks:***
```
/* RULE about Glarccf.values: */

Glarccf is_in {0 thru AVRIMAX()};
```

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# Glarclm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glarclm | FR | DMuns5 |

### 1.1 Glarclm

Concurrent AC/AR camp-on entries terminating to a single port

### 1.2 Description

This parameter is used by LASS Automatic Callback (AC) and Automatic Recall (AR) to limit the number of concurrent camp-on entries terminating to a single port.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 10

***CMP Initial Value:*** 10

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 10;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glarclm.values: */

Glarclm is_in {1 thru 20};
```

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# Glargpccnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glargpccnt | LP | DMuns8 |

### 1.1 Fullname:

Global Office Parameter Glargpccnt

**Defines:**
db/DMuns8.h

### 1.2 Description:

This attribute contains a count of the number of Automatic Route Selection (ARS) CSD groups in the office. A maximum of 200 ARS CSD group is allowed when SFID218 is on.

The value is calculated as the number of ARS group tuples in RLargp where RLargp.argptyp is BR_CSD. If there are no RLargp tuples where RLargp.argptyp is BR_CSD Glargpccnt should be zero.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** The value is calculated as the number of ARS group tuples in RLargp where RLargp.argptyp is BR_CSD. If there are no RLargp tuples where RLargp.argptyp is BR_CSD Glargpccnt should be zero.

```
- Insert of RLargp tuple:
      if ( argp.argptyp == BR_CSD ) then
              Glargpccnt = Glargpccnt + 1;
- Delete of RLargp tuple:
      if ( argp.argptyp == BR_CSD ) then
              Glargpccnt = Glargpccnt - 1;
```

***Retrofit Rules:*** This value must be recalculated across a retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* cmp only */
        ;
```

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***Checks:***

```
/* RULE about Glargpccnt.values: */

Glargpccnt on cmp is_in {0 thru 200};


/* For SODD only */

function count_cgrp() returning DMUNS8
begin
     ccnt = 0;

     for db_amgpd in RLdb_amgpd
     where (db_amgpd.grp_type == GPDARS)
     begin
          pcr = 0;
          done = false;

          for k in { 1 thru 7 }
          where (done == false)
          begin
               for bit in { 0 thru 31 }
               where (done == false)
               begin
                    if (db_amgpd.pcr_map[k]{bit} == 1) then
                    begin
                         pcr = (k -1) * 32 + bit;

                         if (pcr == 0) then
                         begin
                               pcr = 194;
                         end

                         for argp in RLargp on pcr
                         where (argp.ar_gpid == db_amgpd.grp_id)
                         begin
                              if (argp.argptyp == BR_CSD) then
                              begin
                                   ccnt = ccnt + 1;
                              end
                         end

                         done = true;
                    end
               end
          end
     end

     return ccnt;

end

        Glargpccnt on cmp == count_cgrp();
```

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# Glargpvcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glargpvcnt | LP | DMuns8 |

### 1.1 Fullname:

Global Office Parameter Glargpvcnt

**Defines:**
db/DMuns8.h

### 1.2 Description:

This attribute contains a count of the number of Automatic Route Selection (ARS) Voice groups in the office. A maximum of 200 ARS voice group is allowed when SFID218 is on.

The value is calculated as the number of ARS group tuples in RLargp where RLargp.argptyp is BR_VOICE. If there are no RLargp tuples where RLargp.argptyp is BR_VOICE Glargpvcnt should be zero.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** The value is calculated as the number of ARS group tuples in RLargp where RLargp.argptyp is BR_VOICE. If there are no RLargp tuples where RLargp.argptyp is BR_VOICE Glargpvcnt should be zero.

```
- Insert of RLargp tuple:
         if ( argp.argptyp == BR_VOICE ) then
                 Glargpvcnt = Glargpvcnt + 1;
- Delete of RLargp tuple:
         if ( argp.argptyp == BR_VOICE ) then
                 Glargpvcnt = Glargpvcnt - 1;
```

***Retrofit Rules:*** This value must be recalculated across a retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* cmp only */
        ;
```

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***Checks:***

```
/* RULE about Glargpvcnt.values: */

Glargpvcnt on cmp is_in {0 thru 200};


/* For SODD only */

function count_vgrp() returning DMUNS8
begin
     vcnt = 0;

     for db_amgpd in RLdb_amgpd
     where (db_amgpd.grp_type == GPDARS)
     begin
          pcr = 0;
          done = false;

          for k in { 1 thru 7 }
          where (done == false)
          begin
               for bit in { 0 thru 31 }
               where (done == false)
               begin
                    if (db_amgpd.pcr_map[k]{bit} == 1) then
                    begin
                         pcr = (k -1) * 32 + bit;

                         if (pcr == 0) then
                         begin
                                  pcr = 194;
                         end

                         for argp in RLargp on pcr
                         where (argp.ar_gpid == db_amgpd.grp_id)
                         begin
                              if (argp.argptyp == BR_VOICE) then
                              begin
                                     vcnt = vcnt + 1;
                              end
                         end
                         done = true;
                    end
               end
          end
     end

     return vcnt;

end

     Glargpvcnt on cmp == count_vgrp();
```

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# Glarlim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glarlim | FR | DMuns5 |

### 1.1 Glarlim

Concurrent AR camp-on entries originated by a single port.

### 1.2 Description

This parameter is used by LASS Automatic Recall (AR) to limit the number of concurrent AR camp-on entries originated by a single port.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 10

***CMP Initial Value:*** 10

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 10;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glarlim.values: */

Glarlim is_in {1 thru 30};
```

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# Glarpartybusy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glarpartybusy | FR | DMrteidx |

### 1.1 Glarpartybusy

Global Office Parameter Glarpartybusy

### 1.2 Description

This parameter is used as an announcement route index by LASS AC and LASS AR when upon ringback the called party went busy.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

***Checks:***

```
/* RULE about Glarpartybusy.values: */

        /* no check */ ;
```

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# Glarthr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glarthr | FR | DMuns9 |

### 1.1 Glarthr

Reinitiate scanning after terminating scanning is complete.

### 1.2 Description

This parameter is used by LASS Automatic Callback (AC) and Automatic Recall (AR). Whenever the originating side wants to reinitiate terminating scanning, the remaining value of the originating feature timer T1 will be compared with this parameter to see if there is enough time for the reinitiation. The parameter value is in seconds, in increments of 15 seconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 300

***AM Initial Value:*** 300

***CMP Initial Value:*** 300

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 300;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glarthr.values: */

Glarthr is_in {0 thru 300 by 15};
```

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# Glasi_on

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glasi_on | LRFR | DMbool |

### 1.1 Glasi_on

Global Office Parameter Glasi_on

### 1.2 Description

This parameter specifies whether the Advanced Service Interface (ASI) feature is on. DBNO means the feature is off. This parameter can only be set to DBYES if the ASI feature has been purchased ( SFID093 is set to DBYES ).

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:*** standard

***Import:***
```
"chk_apperm.R"
```

***Checks:***
```
/* RULE about Glasi_on.values: */

/* If Private Network features are not permitted in this type
 * of office (if c_aperm returns false), then the ASI indicator
 * should be set to DBNO.
 */

if (c_aperm(PVOPNET,CONFIGMAX) == false) then
        Glasi_on == DBNO;
```

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# Glasidef10

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glasidef10 | LRFR | DMbool |

### 1.1 Glasidef10

Global Office Parameter Glasidef10 - the default ASI subscriber's TN must default to 10-digits.

### 1.2 Description

Allow 10-digit TNs for the default Subscriber's Identification (SID) associated with the ASI Intelligent Peripheral (IP).

When the SID default parameter is not specified on RC View 12.61, then the subscriber's TN is used and displayed as the default SID on RC View 1.61 according to the following rule:

```
if ( Glasidef10 == DBYES )
then
       10 digits of the subscriber's TN (stored as DMLOCDN)
       are displayed as the default SID
else
       last 7 digits of the subscriber's TN (stored as DMLOCDN)
       are displayed as the default SID
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** This parameter is supported by RC and ODA. The value of this parameter is populated by ODA and is updated from RC View 8.1.

The office must first be provisioned with the Number Portability - NPA-NXX Growth Feature (SFID198) on RC View 8.22 before the parameter Glasidef10 can be set to DBYES.

```
if (Glasidef10 == DBYES) then {

          SFID198 == DBYES; }
```

***Retrofit Rules:*** This value should be preserved during a generic retrofit.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

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```
/* standard */
```

***Checks:***

```
/* No checks */
```

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# Glasiulim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glasiulim | FP | DMshort |

### 1.1 Glasiulim

Advanced service interface access UTD limit.

### 1.2 Description

This parameter specifies the maximum limit of universal tone decoders (UTD) as a percentage of available UTDs for a switch module (SM) for use by advanced service interface ( ASI ).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 10

***CMP Initial Value:*** 10

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 10;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

  /* RULE about Glasiulim.values: */

Glasiulim is_in {0 thru 100};
end
```

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# Glasp_tp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glasp_tp | FP | DMushort |

### 1.1 Fullname:

ASP_TP relation tuple count

### 1.2 Description:

The Glasp_tp global parameter contains an SM's current tuple count for rlASP_TP. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter is not supported by RC. The initial value of this parameter is established by ODA and will be updated by trigger functions. If SFID 126 is not active, Glasp_tp must equal 0.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
"env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glasp_tp values: */

/*      Glasp_tp is_in {0 thru (DBQNASP_TP - DBSFASP_TP)}; */
        Glasp_tp is_in {0 thru (8193 - 2)};
```

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```
end


/* RULE about Glasp_tp: */
if (runucv) then
begin

if (current_pcr is_in sm_all) then
begin
        if (Glpvn_ofc == DBPVN_SSP ) then
        begin
            /* Since prl does not support floating point math, and to
             * prevent division by 0, the following formula has been
             * simplified to the result used in the following calculation.
             *
             * let crpl = 2 + (1/2);
             *
             * Glasp_tp is used for asp calls that contain NELs in the
             * SCP response and ASP calls that have alternate routes in
             * the SCP response for EACR and officewide originating ASP
             * trigger calls and provisioned originating BLNA triggers.
             *
             * NELs are returned on approx 10% of all ASP calls, and
             * the hold time is approx 10% of the hold time for the
             * asp base tuples:
             *
             * NEL term = 10% * 10% Glaspbase = 1% Glaspbase
             *
             * EACR occurs when alternate routes are returned in the
             * SCP response which is approx 10% of all ASP calls, and
             * the hold time is approx 10% of the hold time of the
             * asp base tuples
             *
             * EACR term = 10% * 10% Glaspbase = 1% Glaspbase
             *
             * Officewide originating ASP trigger calls occur on 100% of
             * line originations in the office and have a hold time of
             * 20 sec (based on 50% answered calls with a hold time of
             * 15 sec, 10% busy, 40% unanswered with a hold time of 30 sec)
             *
             * officewide = call rate per lines * number of lines *
             *                  holding time * proportion of calls
             *            = crpl * (Glalinecnt+Glshanal+Glmaxterm) *
             *                  20 sec/3600 * 100%
             *            = ((Glalinecnt+Glshanal+Glmaxterm) + 71) / 72
             */
             let ofcblnatrig = (Glorgbltrg > 0 || Glorgnatrg > 0) ?
                   ((Glalinecnt+Glshanal+Glmaxterm) + 71) / 72 : 0;

            /* provisioned originating blna triggers occur on lines
             * and with either the busy line or noanswer trigger assigned.
             * Globlnalin stores the count of those features. The hold
             * time is 20 sec
             * provtrig = (crpl * Globlnalin) * f_otrig * otrig_hold);
```

```
             *          = (crpl * Globlnalin) * 100% * 20/3600
             */
                let provtrig = (Globlnalin > 0) ? (Globlnalin + 71) / 72 : 0;

            /*
             * Compute the number of tuples needed for Provisioned Busy
             * and No Answer Terminating trigger Calls.
             * (Refer to fc/FCtrigint/MCdbqasptp.c for the details).
             */
             let tblna_trig =  (Gltbllines > 0 || Gltnalines > 0 ||
                               Gltatlines > 0) ?
               ((Gltbllines + 2879) / 2880) + ((Gltnalines + 79) / 80) +
                               ((Gltatlines + 719) / 720) : 0;

            /* GETS calls could be queued and would have a longer holding
             * time(30sec), but since the % of GETS calls is only 1%, the
             * term is negligible and will not be added to the formula
             *
             * mu = NEL term + EACR term + officewide term + prov
             * term + prov tblna_trig = 1% Glaspbase + 1% Glaspbase +
             * ofcblnatrig + provtrig + tblna_trig
             */

                let mu = (Glaspbase + 49) / 50 + ofcblnatrig +
                          provtrig + tblna_trig;
                let sigma = sqrt(mu);
                let asptp = mu + (5 * sigma);

        /*      if (asptp + Gliasp_tp <= (DBQNASP_TP - DBSFASP_TP)) then        */
                if (asptp + Gliasp_tp <= (8193 - 2)) then
                    Glasp_tp >= asptp + Gliasp_tp;
                else
        /*              Glasp_tp == (DBQNASP_TP - DBSFASP_TP);  */
                        Glasp_tp == (8193 - 2);

                /* Make sure there is a minimum number of ASP_TP tuples */
                find == 1 modatt in RLmodatt
                where (modatt.module == current_pcr)
                when_found
                begin
                    if (modatt.unittype is_in {SMSM2000, SMSM2005}) then
                            Glasp_tp >= 100;
                    else
                            Glasp_tp >= 20;
                end
        end
        else
        begin
                Glasp_tp == 0;
        end
end
end
```

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# Glaspbase

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaspbase | FP | DMushort |

### 1.1 Fullname:

Advanced Services Platform base relation tuple count

### 1.2 Description:

The Glaspbase global parameter contains an SM's current tuple count for rlNS_BILL, rlNS_IDX and rlNSDB. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as ASP features are assigned to or unassigned from lines and trunks. It will never be decreased.

***Retrofit-ODA Rules:*** Not applicable

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
"env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glaspbase.values: */
```

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```
/*      Glaspbase is_in {0 thru (DBQNNS_BIL - DBSFNS_BIL)};     */
        Glaspbase is_in {0 thru (32000 - 0)};
end


/* FUNCTION */


/*
 * If the Number Portability (NP) secured feature, NP - AMA
 * Access Billing, SFID199 has been unlocked and a port
 * has been ported, the number of ASP base dynamic relations
 * should be increased.
 *
 *
 * let calls_lported = 10 * call rate per lines * number of ported lines
 *
 *
 * let calls_tported = 10 * call rate per trunk * number of non-ISUP7
 *                      ported trunks
 *
 *
 * let calls_tisup7 = 10 * call rate per trunk * number of ISUP7 trunks *
 *                      number of CCS calls with a JIP (assume 100%)
 *
 * NOTE: The previous variables all contain a "10 *" term (such as,
 *       calls_ported = 10 * calls per line * number of ported lines).
 *       This is used later in this calculation to reduce the
 *       number of divisions to 1.  Decreasing the number of
 *       divisions is used to decrease the truncation errors (since PRL
 *       is unable to do floating point math).
 *
 *
 * let calls_termpbx = call rate per trunk * number of non-ISUP7 ported trunks
 *
 *      (calls_termpbx * 10%) equals the number of calls terminating
 *      to ported PBX trunks that aren't covered by other factors in
 *      this calculation (the originator isn't a ported line, a ported
 *      non-ISUP7 trunk, or an ISUP7 trunk).  The amount of 10% is an
 *      estimation of the number of calls terminating to PBX trunks
 *      that fit this criterion.
 *
 * NOTE: Gllnpama indicates that SFID199 is unlocked
 *
 * let lnpama = ((Gllnpama == DBYES) ? ZZZ : 0);
 *       where ZZZ is defined as follows:
 *
 *
 * ZZZ = ( ((call rate per lines * number of ported lines) +
 *          (call rate per trunks * number of non-ISUP7 ported trunks) +
 *          (call rate per trunks * number of ISUP7 trunks * number of
 *           incoming CCS calls with a JIP (assume 100%)) *
 *           holding time * percentage of calls that are originating
```

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```
            (assume 50%) ) +
*           (call rate per trunks * number of non-ISUP7 ported trunks * 10%) *
*              holding time * percentage of calls that are terminating
*              (assume 50%) )
*
* with:
*      calls per line = 2.5
*      calls per trunk = 8
*      holding time (both lines and trunks) = 210/3600
*
*
* By replacing
*
*      (call rate per lines * number of ported lines)
*              with    (.10 * calls_lported),
*
*      (call rate per trunks * number of non-ISUP7 ported trunks)
*              with    (.10 * calls_tported),
*
*      (call rate per trunks * number of ISUP7 trunks)
*              with    (.10 * calls_tisup7),
*
* and  (call rate per trunks * number of non-ISUP7 ported trunks)
*              with    (calls_termpbx),
*
* ZZZ equals the following:
*
* ( ((.10 * calls_lported) + (.10 * calls_tported) +
*    (.10 * calls_tisup7 * 100%)) * holding time * 50%)
*  + (calls_termpbx * 10%) * holding time * 50% )
*
*
* Further reducing ZZZ (factoring out the .5, .1, and holding time):
*
* (calls_lported + calls_tported + calls_tisup7 + calls_termpbx)
*      * (.10 * holding time * .50)
*
*
* Reducing and replacing holding time with 210/3600:
*
* (calls_lported + calls_tported +
*      calls_tisup7 + calls_termpbx) * 7/2400
*
*
* Using the known values for calls per line
* and calls per trunk; calls_lported,
* calls_tported, calls_tisup7, and calls_termpbx
* equal the following:
*
*      calls_lported = 25 * Gllportcnt
*      calls_tported = 80 * Gltportcnt
*      calls_tisup7 = 80 * Glisuptk_cnt
*      calls_termpbx = 8 * Gltportcnt
*
```

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```
 *
 * Then change mu to be mu + lnpama.
 */


/* the function lnpama_calc() implements the previous formula */

function lnpama_calc() returning DMULONG
begin
        calls_lported = 25 * Gllportcnt;
        calls_tported = 80 * Gltportcnt;
        calls_tisup7 = 80 * Glisuptk_cnt;
        calls_termpbx = 8 * Gltportcnt;

        out = (calls_lported + calls_tported +
                calls_tisup7 + calls_termpbx) * 7/2400;

        return out;
end


/* RULE about Glaspbase: */

if (runucv) then
begin
if (current_pcr is_in sm_all) then
begin
   if (Glpvn_ofc == DBPVN_SSP
       || Glssp == DBYES
       || Gllnpama == DBYES) then
   begin
        /*
         * Compute the number of tuples needed for Provisioned Busy and
         * No Answer Terminating trigger Calls.
         * (Refer to fc/FCtrigint/MCdbqaspbs.c for the details).
         */
        let tblna_trig  = (Gltbllines > 0 || Gltnalines > 0) ?
                          ( (7 * Gltbllines + 473) / 480 ) +
                          ( (7 * Gltnalines + 113) / 120 )  : 0;


        /* lnpama_calc() is defined as previously seen */

        let lnpama = ((Gllnpama == DBYES) ? lnpama_calc() : 0);


        /* Since prl does not support floating point math, and to
         * prevent division by 0, the following formula has been
         * simplified to the result used in the following calculation.
         *
         * let crpl = 2 + (1/2);
         * let f_cdpquery = 1/2;
         * let f_dntquery = 5/100;
         * let f_fcdquery = 1/10;
```

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```
 * let hold_time = 210/3600;

 * let o_aspbase = crpl * (Glalinecnt + Glshanal + Glmaxterm) *
    (((Glohlines + (Glcdplines * f_cdpquery) +
    (Glfcdlines * f_fcdquery)) / (Glalinecnt +
    Glshanal + Glmaxterm)) + f_dntquery) * hold_time;

 * let f_tatquery = 1 + (5/100);
 * let t_aspbase = (crpl * Gltatlines * f_tatquery) * hold_time;

 * let crpt = 8;
 * let f_sspquery = 5/100;
 * let ssp_base= (crpl * (Glalinecnt + Glshanal + Glmaxterm) *
    f_sspquery * hold_time) + (crpt * Gltrkcnt * f_sspquery *
    hold_time);

 * let f_cdptrk = 5/10;
 * let f_fcdtrk = 1/10;

 * let trk_base =
   (crpt * Gltrkcnt * ((Glohtrks + (Glcdptrks * f_cdptrk) +
    (Glfcdtrks * f_fcdtrk)))/Gltrkcnt + f_dntquery) * hold_time;

 * let mu = o_aspbase + t_aspbase + ssp_base + trk_base;
 */


/*
 * If the local number portability (LNP) secured feature SFID147
 * has been unlocked and ASP queries are allowed for LNP, then
 * the number of ASP base dynamic relations should be increased.
 *
 * Because the SFID lock cannot be checked in the PRL code,
 * an internal global parameter is used to indicate that the
 * LNP feature is active and ASP LNP triggers have been
 * populated.
 *
 * let f_lnpquery = 4/10;
 *      The fractional proportion of calls using an ASP LNP
 *      query has been estimated to be an average of 40%.
 *
 * let lnp_base = ((Gllnp == DBYES) ? ZZZ : 0);
 *      where ZZZ is defined similarly to ssp_base as follows:
 *
 * ZZZ = ( (call rate per lines * number of lines) +
 *       (call rate per trunks * number of trunks) ) *
 *       holding time * proportion of calls using LNP query
 *
 * In reduced form this is
 *      ( ( ( ((Glalinecnt + Glshanal + Glmaxterm) * 5) +
 *      (Gltrkcnt * 16) ) * 7) /600)
 *
 * Then change mu to be mu + lnp_base.
 */
```

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```
let lnp_base = ((Gllnp == DBYES) ?
        ( ( ( ((Glalinecnt + Glshanal + Glmaxterm) * 5) +
        (Gltrkcnt * 16) ) * 7) /600) : 0);

/*
 * Compute the number of tuples needed for Busy Line No Answer
 * Originating trigger calls using both the office wide trigger
 * and those provisioned on lines.
 * The penetration of BLNA Originating triggers is 40%
 * which is the weighted average of busy or unanswered calls.
 *
 * Because the SFID lock cannot be checked in the PRL code,
 * the global parameters Glorgbltrg and Glorgnatrg, which contain
 * the trigger numbers, are used to indicate that BLNA office
 * originating trigger feature is active.
 * The global parameter Globlnalin stores the count of lines
 * which have either the busy line or no answer trigger assigned
 * and active on lines.
 * The holding time is 210/3600 seconds, which is the
 * weighted average of busy, no answer and answer.
 *
 * let ofcblnatrig= ((Glorgbltrg > 0 || Glorgnatrg  > 0 ) ? ZZZ : 0);
 *       where ZZZ is defined similarly to ssp_base as follows:
 *
 * ZZZ = call rate per lines * number of lines *
 *       holding time * proportion of calls using BLNA
 *       originating or busy triggers
 *
 * let ofcblnatrig =(crpl * (Glalinecnt + Glshanal + Glmaxterm) *
 *               f_otrig * otrig_hold);
 *
 * let oblnatrig =(crpl * Globlnalin) *
 *               f_otrig * otrig_hold);
 *
 *
 * f_otrig = 4/10;
 * otrig_hold = 210/3600 sec;
 * In reduced form this is
 * ( 7 * (Glalinecnt + Glshanal + Glmaxterm))/120
 *
 * Then let mu = mu + blnatrig
 */

/* Compute the office wide BLNA trigger */
let ofcblnatrig =(Glorgbltrg > 0 || Glorgnatrg > 0 ) ?
        ( ( 7 * (Glalinecnt + Glshanal + Glmaxterm) + 119 )/120 ) : 0;

/* Compute the provisioned  BLNA trigger */
let oblnatrig =( Globlnalin > 0 ) ? ( ( ( 7 * Globlnalin ) +
                119 )/120 ) : 0;

/* Combine all BLNA trigger values */
let blnatrig = ofcblnatrig + oblnatrig;
```

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```
        /*
         * If any of the features which allow trunk toll triggers are
         * unlocked, then the number of ASP base dynamic relations
         * should be increased.
         *
         * Because the SFID locks cannot be checked in PRL code,
         * an internal global parameter (Gltolltrig) is used to indicate
         * that any of the toll features is active and that at least one
         * one of the trigger indicators has been provisioned.
         *
         * let tolltrig = (( Gltolltrig == DBYES) ? ZZZ:0);
         * where ZZZ is defined similarly to asp_base as follows:
         *
         * ZZZ = call rate per trunks * number of trunks *
         *       holding time * proportion of calls using toll triggers
         *
         *
         * tolltrig =(crpt * Gltrkcnt * otrig_hold * f_tolltrig)
         *
         * where:
         *      crpt = 8
         *      f_tolltrig = 1/10
         *      otrig_hold = 210/3600
         * In reduced form this is
         * ( (8 * Gltrkcnt ) * 7 ) + 1144 ) / 1200
         *
         * Then let mu = mu + tolltrig
         */

        let tolltrig = ( Gltolltrig == DBYES ) ?
              ( ( ( (8 * Gltrkcnt ) * 7 ) + 1144 ) / 1200 ) : 0;


        let mu = ( (((Glohlines*20) + (Glcdplines * 10) + (Glfcdlines * 2 ) +
                 ((Glalinecnt + Glshanal + Glmaxterm) *2)) *7) /960 ) +
          ((( (2 * Gltrkcnt) + (Glohtrks * 20) + (Glcdptrks * 10) +
                 (Glfcdtrks * 2)) *49) /2100)
          + (( 49 * Gltatlines)/320) + lnp_base + lnpama + blnatrig +
               tolltrig + tblna_trig;


        let sigma = sqrt (mu);

        let aspbase = mu + (5 * sigma);

/*      if (aspbase + Gliaspbase <= (DBQNNS_BIL - DBSFNS_BIL)) then     */
        if (aspbase + Gliaspbase <= (32000 - 0)) then
                Glaspbase >= aspbase + Gliaspbase;
        else
/*              Glaspbase == DBQNNS_BIL - DBSFNS_BIL;   */
                Glaspbase == 32000 - 0;

        /* Make sure there is a minimum number of ASPBASE tuples
```

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```
         * in the SM.
         */

        if (Glconfigname == CNFG2K00) then
                Glaspbase >= 1000;
        else
                Glaspbase >= 200;

   end
   else
   begin
        Glaspbase == 0;
   end
end
end
```

# Glaspdisp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaspdisp | FP | DMushort |

### 1.1 Fullname:

Count of rlASPDISP tuples.

### 1.2 Description:

This global parameter records the current count of rlASPDISP tuples on an SM. It is verified during full initializations and updated via trigger functions as tuples are inserted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as TBLNA triggers are assigned or unassigned to lines. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glaspdisp.values */

/*      Glaspdisp is_in { 0 thru (DBQNASPDISP - DBSFASPDISP) } */
        Glaspdisp is_in { 0 thru (1024 - 0) };
```

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```
/* RULE about Glaspdisp */

if(Glpvn_ofc == DBPVN_SSP) then
begin
        /*
         * Compute the number of tuples needed for Provisioned Busy
         * and No Answer Terminating trigger Calls.
         * (Refer to fc/FCtrigint/MCdbqdisp.c for details).
         */

        /* Compute the provisioned TBLNA triggers */
        let tblna_trig = (Gltbllines > 0 || Gltatlines > 0) ?
                        (((Gltbllines  + 57599) / 57600) +
                         ((Gltatlines + 575) / 576) +
                        (90 / 32 )) : 0;

        /* Compute the number of rlASPDISP tuples to allocate: */
        let mu = tblna_trig;
        let sigma = sqrt(mu);
        let aspdisp = mu + (5 * sigma);

        /* Glaspdisp is_in { 0 thru (DBQNASPDISP - DBSFASPDISP) }*/
        if ((aspdisp + Gliaspdisp) <= (1024 - 0)) then
        begin
                Glaspdisp >= aspdisp + Gliaspdisp;
        end
        else
        begin
        /*  Glaspdisp == (DBQNASPDISP - DBSFASPDISP) */
        Glaspdisp == (1024 - 0);
        end

        /*
         * Make sure there are minimum number of tuples in the
         * relation rlASPDISP
         */
        find == 1 modatt in RLmodatt
        where (modatt.module == current_pcr)
        when_found
        begin
                if (modatt.unittype is_in {SMSM2000, SMSM2005}) then
                begin
                        Glaspdisp >= 100;
                end
                else
                begin
                        Glaspdisp >= 20;
                end
        end
end
else
begin
        Glaspdisp == 0;
```

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```
end

end
```

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# Glaspnelti

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaspnelti | FR | DMshort |

### 1.1 Fullname:

Advanced Services Platform Next Event Level Timer

### 1.2 Description:

This global parameter will be used in the 5E10(1) SR for the Advanced Services Platform (ASP) Busy Line No Answer (BLNA) Special Feature. The parameter provides the no answer timeout value for ASP BLNA. The range for this parameter is from 1 to 120. The system default is 18 seconds. This global parameter must be 18 if SFID 147 AND SFID 189 are not set (feature has not been purchased).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 18

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** This data was previously stored in global parameter Glsf7dummy. During a retrofit to 5E10(1), this global parameter must be initialized to the value stored in global parameter Glsf7dummy in 5E9(1) or 5E9(2), before Glsf7dummy is reset to a value of 0 in 5E10(1).

***Default Rules:***

```
default = 18;
```

***Distribution Rules:***

```
        /* FR */
```

***Checks:***

```
/* RULE about Glaspnelti.values: */

        Glaspnelti is_in {1 thru 120};

/* RULE about Glaspnelti: */

        /* no check */ ;
```

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# Glasptrans

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glasptrans | FP | DMushort |

### 1.1 Fullname:

Global Parameter counter for rlASPTRANS tuples.

### 1.2 Description:

The Glasptrans global parameter contains an SM's current rlASPTRANS tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as TBLNA triggers are assigned or unassigned to lines. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit. The formula as described in the population rules will be incorporated in Glparams.V

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glasptrans.values */

/* Glasptrans is_in { 0 thru (DBQNASPTRANS -  DBSFASPTRANS) } */
```

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```
Glasptrans is_in { 0 thru (4096 - 0) };

/* RULE about Glapstrans */

if (Glpvn_ofc == DBPVN_SSP) then
begin
        /*
         * Compute the number of tuples needed for Provisioned Busy and
         * No Answer Terminating trigger Calls.
         * (Refer to fc/FCtrigint/MCdbqtrans.c for details).
         */
        let tblna_trig = (Gltbllines > 0 || Gltnalines > 0 || Gltatlines > 0) ?
                         ((13 * Gltbllines + 28787) / 28800) +
                         ((Gltnalines + 719) / 720) +
                         ((Gltatlines + 719) / 720) : 0;

        /* Compute the number of rlASPTRANS tuples to allocate : */
        let mu = tblna_trig;
        let sigma = sqrt(mu);
        let asptrans = mu + (5 * sigma);

        /*
         * The number of rlASPTRANS tuples actually allocated will be
         * asptrans + Gliasptran up to the maximum number of tuples
         * allowed.
         */
        /* if ((asptrans + Gliasptran) <= (DBQNASPTRANS - DBSFASPTRANS))
         * then */
        if ((asptrans + Gliasptran) <= (4096 - 0)) then
        begin
                Glasptrans >= asptrans + Gliasptran;
        end
        else
        begin
                /*  Glasptrans == (DBQNASPTRANS - DBSFASPTRANS) */
                Glasptrans == (4096 - 0);
        end

        /*
         * Make sure there are minimum number of tuples in the
         * relation  rlASPTRANS
         */
        find == 1 modatt in RLmodatt
        where (modatt.module == current_pcr)
        when_found
        begin
                if (modatt.unittype is_in {SMSM2000, SMSM2005}) then
                begin
                        Glasptrans >= 100;
                end
                else
                begin
                        Glasptrans >= 20;
                end
```

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```
        end
end
else
begin
        Glasptrans == 0;
end
end
```

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# Glassup_time

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glassup_time | FP | DMsecond |

### 1.1 Glassup_time

Global office parameter Glassup_time

### 1.2 Description

This parameter specifies the time that the supervision point in a connection allows the A-party to listen to ringing tone. At expiration of the timer the call is torn down. Used by Export.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 90

***AM Initial Value:*** 90

***CMP Initial Value:*** 90

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glassup_time.values: */
Glassup_time is_in {80 thru 240};
end
```

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# Glastpaint

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glastpaint | LP | DMuns8 |

### 1.1 Glastpaint

Global AS STP Accounting Interval.

### 1.2 Description

This parameter will contain the number of times a Shapshot of the STP Accounting data is taken and stored on disk in a 24 hour period. The values indicating how many snapshots are stored in a 24 hour period. The acceptable values are:

```
Global Parameter Value,      Hours of data stored
 # of snapshots/day            in each snapshot
 ---------------------------------------------
       1                              24
       2                              12
       3                               8
       4                               6
       6                               4
       8                               3
      12                               2
      24                               1
      48                               0.5
```

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 48

***CMP Initial Value:*** 48

***RC/ODA Rules:*** ***NOTE:*** The STP Accounting feature isn't supported, therefore Glastpaint should be populated with 48.

***Retrofit Rules:*** None.

***Default Rules:***

```
default = 48;
```

***Distribution Rules:***

```
/* Standard */
```

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***Checks:***

```
/* Glastpaint should equal 48. */

Glastpaint == 48;
```

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# Glatarc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glatarc | FR | DMbool |

### 1.1 Glatarc

Global Office Parameter Glatarc

### 1.2 Description

This parameter specifies whether inter-LATA Automatic Callback (AC) or Automatic Recall (AR) invocation attempts will be allowed.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glatarc.values: */

Glatarc is_in {DBNO, DBYES};
```

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# Glatcall

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glatcall | FP | DMushort |

### 1.1 Fullname:

Count of RLatcall tuples present in an SM

### 1.2 Description:

The Glatcall global parameter contains an SM's current RLatcall tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions. This global parameter is used for Software Resource Engineering.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as Application Processor features are assigned or unassigned.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
"env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glatcall.values: */

/* Glatcall is_in { 0 thru (DBQNATCALL - DBSFATCALL) }; */
```

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```
Glatcall is_in { 0 thru (256 - 0) };

end

/* RULE about Glatcall: */

if (runucv) then
begin
    if (current_pcr is_in sm_all) then
    begin
        let call_rate = 1;   /* calls per hour */
        let percentage = 1;  /* 100 percent */
        let hold_time = 60;  /* seconds */

        let mu = ((call_rate * percentage * hold_time *
            (Glmssaccnt + Gledsaccnt)) + 3599) / 3600;

        let sigma = sqrt(mu);

        let atcall = mu + (5 * sigma);

/*      if (atcall + Gliatcall <= (DBQNATCALL - DBSFATCALL)) then */
        if (atcall + Gliatcall <= (256 - 0)) then
                Glatcall >= atcall + Gliatcall;
        else
/*              Glatcall == DBQNATCALL - DBSFATCALL; */
                Glatcall == 256 - 0;
    end
end
```

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# Glatcocitr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glatcocitr | FR | DMuns11 |

### 1.1 Glatcocitr

Global Office Parameter Glatcocitr

### 1.2 Description

This Automation of TCS/CPS override (ATCO) timing parameter specifies the duration threshold for which the International card verification center (ICVC) attendant must provide a final call disposition after the verification conversation has begun (that is, the caller was unsplit). A timeout will result in a warning announcement/tone being played. This timer shall be specified in increments of 1 second with a range of 1 to 1800 with no default value. A value of 0 will map internally to a blank on the recent change view.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e10.1, this parameter must be set to the value in Gloff10{19:29}.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glatcocitr.values: */

Glatcocitr is_in {0 thru 1800};
```

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# Glatcocstr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glatcocstr | FR | DMuns6 |

### 1.1 Glatcocstr

Global Office Parameter Glatcocstr

### 1.2 Description

This Automation of TCS/CPS Override (ATCO) timing parameter specifies the threshold from the time the OSPS routes the call to the International Card Verification Center (ICVC) until the ICVC returns answer supervision (or network "busy" or "block" is received). A timeout indicates a problem with the routing and results in the call being sent to an OSPS operator position for handling. This timer shall be specified in increments of 1 second with a range of 1 to 60 with no default value. The internal value of 0 will be mapped to a blank on the recent change view.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e10.1, this parameter must be set to the value in Gloff10{0:5}.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glatcocstr.values: */

Glatcocstr is_in {0 thru 60};
```

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# Glatcoddom

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glatcoddom | FR | DMbool |

### 1.1 Glatcoddom

Automation of TCS/CPS Overide (ATCO) of DIOR Originations to Domestic Destinations feature activation parameter.

### 1.2 Description:

This parameter shall be used to activate/deactivate the ATCO feature for DIOR originations that terminate to domestic destinations. YES indicates the feature is activated, DBNO indicates the feature is not activated.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e10.1, this parameter must be set to the value in Gloff9{17}.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
/* RULE about Glatcoddom: */
if (Glatcoddom == DBYES) then
begin
        Glatcocstr != 0;
        Glatcocitr != 0;
        Glatcosptr != 0;
        Glatcofdtr != 0;
        Glatcopwtr != 0;
        Glatconum.dn != "";
```

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```
end
```

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# Glatcodint

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glatcodint | FR | DMbool |

### 1.1 Glatcodom

Automation of TCS/CPS Overide (ATCO) of DIOR Originations to International Destinations feature activation parameter.

### 1.2 Description:

This parameter shall be used to activate/deactivate the ATCO feature for DIOR originations that terminate to international destinations. YES indicates the feature is activated, DBNO indicates the feature is not activated.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e10.1, this parameter must be set to the value in Gloff10{30}.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
/* RULE about Glatcodint: */

if (Glatcodint == DBYES) then
begin
        Glatcocstr != 0;
        Glatcocitr != 0;
        Glatcosptr != 0;
        Glatcofdtr != 0;
        Glatcopwtr != 0;
```

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```
        Glatconum.dn != "";
end
```

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# Glatcodom

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glatcodom | FR | DMbool |

### 1.1 Glatcofdtr

Automation of TCS/CPS Overide (ATCO) of Non-DIOR Originations to Domestic Destinations feature activation parameter.

### 1.2 Description:

This parameter shall be used to activate/deactivate the ATCO feature for Non-DIOR originations that terminate to domestic destinations. YES indicates the feature is activated, DBNO indicates the feature is not activated.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e10.1, this parameter must be set to the value in Gloff9{16}.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
/* RULE about Glatcodom: */
if (Glatcodom == DBYES) then
begin
        Glatcocstr != 0;
        Glatcocitr != 0;
        Glatcosptr != 0;
        Glatcofdtr != 0;
        Glatcopwtr != 0;
        Glatconum.dn != "";
```

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```
end
```

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# Glatcofdtr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glatcofdtr | FR | DMuns4 |

### 1.1 Glatcofdtr

Global Office Parameter Glatcofdtr

### 1.2 Description

This Automation of TCS/CPS Override (ATCO) timing parameter specifies the amount of time the international card verification center (ICVC) attendant has to signal a call status to the OSPS after the caller has been "split" via the # key. A timeout will result in the call being sent to an OSPS operator queue. This timer shall be specified in increments of 1 second with a range of 1 to 10 with no default value. A value of 0 will internally be mapped to a blank on the rc view.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e10.1, this parameter must be set to the value in Gloff9{18:21}.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glatcofdtr.values: */

Glatcofdtr is_in {0 thru 10};
```

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# Glatcoint

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glatcoint | FR | DMbool |

### 1.1 Glatcoint

Automation of TCS/CPS Overide (ATCO) of Non-DIOR Originations to International Destinations feature activation parameter.

### 1.2 Description:

This parameter shall be used to activate/deactivate the ATCO feature for Non-DIOR originations that terminate to international destinations. YES indicates the feature is activated, DBNO indicates the feature is not activated.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e10.1, this parameter must be set to the value in Gloff10{31}.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
/* RULE about Glatcoint: */
if (Glatcoint == DBYES) then
begin
        Glatcocstr != 0;
        Glatcocitr != 0;
        Glatcosptr != 0;
        Glatcofdtr != 0;
        Glatcopwtr != 0;
        Glatconum.dn != "";
```

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```
end
```

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# Glatconum

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glatconum | FR | DMdn |

### 1.1 Glatconum

Global Office Parameter Glatconum

### 1.2 Description

This parameter is used as the 10-digit routing number for the International Card Verification Center for the Automation of TCS/CPS overide (ATCO) feature.

The value for this parameter is a 10 digit [0-9] number (not restricted to directory number format). The value of blank will initially be populated, but must be updated to a valid 10 digit number, as determined by the service provider, in order for the ATCO feature to be activated.

Since this is a DMdn, both fields of it must be set. The array dn of this DMdn should be set to the desired digits, while the digcnt field of the DMdn should be set to the number of digits in the dn field. The digcnt should be 10 for a 10 digit number or 0 for no number. A number of less than 10 digits is not valid.

***Type:*** DBDN_PAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** {0,""}

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e10.1, this parameter must be set to the value in Glget_rec.

***Default Rules:***
```
default.digcnt = 0;

default.dn = "";
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glatconum.values: */

        /* no check */ ;
```

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# Glatcopwtr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glatcopwtr | FR | DMuns5 |

### 1.1 Glatcopwtr

Global Office Parameter Glatcopwtr

### 1.2 Description

This Automation of TCS/CPS override (ATCO) timing parameter specifies the amount of time for which the International card verification center (ICVC) attendant has to signal a call status to the OSPS after an announcement warning has been given (either due to Caller Split timing or Caller Interaction Timing). A timeout will result in the call being brought to the operator position. This timer shall be specified in increments of 1 second with a range of 1 to 30 with no default value. The value of 0 will be mapped internally to a blank on the recent change view.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e10.1, this parameter must be set to the value in Gloff10{14:18}.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glatcopwtr.values: */

Glatcopwtr is_in {0 thru 30};
```

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# Glatcosptr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glatcosptr | FR | DMuns8 |

### 1.1 Glatcosptr

Global Office Parameter Glatcosptr

### 1.2 Description

This Automation of TCS/CPS override (ATCO) timing parameter specifies the threshold from the time the caller is initially "split" until the caller is "unsplit" to hear an announcement or to interact with the ICVC attendant or OSPS operator. A timeout indicates the caller has been "split" for too long a period during ATCO processing and will result in a warning announcement/tone being played to the international card verification center (ICVC) attendant. This timer shall be specified in increments of 1 second with a range of 1 to 180 with no default value. The value of 0 will be mapped internally to a blank on the recent change view.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e10.1, this parameter must be set to the value in Gloff10{6:13}.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glatcosptr.values: */

Glatcosptr is_in {0 thru 180};
```

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# Glatema1_mod

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glatema1_mod | FP | DMatemamod |

### 1.1 Glatema1_mod

Global office parameter Glatema1_mod.

### 1.2 Description

For Dutch projects this parameter must be set to 'TMATE1T'. If 'TMATEMA1' is set in Glcatltype then Glatema1_mod must be recent changeable else TM_NOATEMA1 must be set. Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** TMNO_ATEMA1

***AM Initial Value:*** TMNO_ATEMA1

***CMP Initial Value:*** TMNO_ATEMA1

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

  /* RULE about Glatema1_mod.values: */
  Glatema1_mod is_in {TMNO_ATEMA1, TMATE1T, TMATE1C};
end
```

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# Glathct

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glathct | LR | DMfacuscnt |

### 1.1 Glathct

Global Office Parameter Glathct

### 1.2 Description

This parameter specifies the maximum number of authorization codes that an office is permitted to define.

For 5e5.1 all offices will have this parameter set to 100000 except those 12 CNO/FTS2000 (listed here) and other non-cno/toll offices that are processed thru ODA within the 12 office time interval. These offices will have this parameter set to 250000. These are the 12 offices that NEED 250,000 codes.

| OFFICE | BASE AND CONTROL |
|---|---|
| Atlanta, GA | 3585d0 |
| Dallas, TX | 8363d0 |
| New York, NY | 9084d0 |
| Washington 3, DC | OR40d0 |
| Chicago, IL | 4E25d0 |
| Los Angeles, CA | 4X81d0 |
| Philadelphia, PA | 1R73d1 |
| Rochester, NY | 4J55d0 |
| Oakland, CA | 4X52d0 |
| St Paul, MN | AAA7d0 |
| Pittsburgh, PA | 1R45d0 |
| White Plains, NY | 8987d0 |

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 100000

***CMP Initial Value:*** 100000

***RC/ODA Rules:***

```
If Gloftyp = DBNO  then set Glathct to 100000

If Gloftyp = DBYES then set Glathct to 250000.
```

***Retrofit Rules:*** not applicable

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***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glathct.values: */

    /* no check */ ;
```

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# Glatmap

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glatmap | FP | DMbool |

### 1.1 Glatmap

Global Office Parameter Glatmap

### 1.2 Description

Specifies whether this *5ESS*®-2000 switch performs LATA mapping to determine inter-lata or intra-lata type of call interconnection is being made. This parameter is used for *5ESS* ®-2000 switches which have operator services position system (OSPS) or intermediate switch point (ISP) facilities.

The parameter must be present in all PSM's and SM's which have ISPOPR trunks.

```
Group type = GPD_OPRT

Group id = 2
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** This parameter would be set to DBNO when the office contains multiple digit trees (one per LATA served by the OSPS). This is the case for an OSPS integrated with an access tandem (AT) switch or resides in the local switching network.

A value of DBYES will be used when the office does not contain multiple digit trees and must perform LATA mapping to determine the type of carrier interconnect call (INTRA vs INTER LATA). This is the case for an OSPS integrated with a toll switch, resides in the toll switching network OR when the office has trunks which serve more than one LATA.

***Default Rules:***

```
default = DBNO;

/* Default is: DBNO for a BOC (local network) office.

 * DBYES for an ATT-C (toll network) office.,";
```

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```
 */
```

***Distribution Rules:***

```
pcrlist = get_gpd_pcrlist (GPD_OPRT,2);
```

***Import:***

```
"PLgpd_defs.R"
```

***Checks:***

```
/* RULE about Glatmap.values: */

          /* no check */ ;
```

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# Glatmlayr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glatmlayr | FR | DMatmlayr |

### 1.1 Glatmlayr

ATM Physical Layer

### 1.2 Description

Indicates whether ATM physical layer is SONET or SDH.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBSONET

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** None.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = DBSONET;
```

***Distribution Rules:*** standard

***Checks:***
```
/* no check */
```

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# Glats_tcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glats_tcnt | LP | DMshort |

### 1.1 Fullname:

ATSDATA Tuple Count

### 1.2 Description:

This parameter is used by RC/V to keep track of the number of tuples currently populated in the AM relation ATSDATA in order to enforce a limit on the number of Automatic Trunk Test Scheduler (ATTS) test sessions which may be defined by office personnel.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA: When assembling the ODD, this parameter should be initialized to the value which equals the initial number of tuples populated in the AM relation ATSDATA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
        ;
```

***Import:***
```
env.R
```

***Checks:***
```
if (runucv) then
Glats_tcnt on cmp == count { t in RLatsdata };

/* RULE about Glats_tcnt.values: */

Glats_tcnt on cmp  is_in {0 thru 3000};
```

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# Glatsact

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glatsact | FP | DMbool |

### 1.1 Glats_tcnt

Automatic terminal setup activation.

### 1.2 Description

This global parameter will be used to control the activation of the 5e9.1 software update Automatic Terminal Setup capability software. This parameter will be initialized in 5e9.1 to DBNO by ODA and will not be supported by RC. The parameter is to exist on every SM in the office.

This parameter's initial value was changed in 5e9.2 to DBYES so that the ATS software will always be active on the switch. ODA will provide the initial value as DBYES for 5e9.2 and all future software releases. Any retrofit after the 5e9.2 software release should preserve the populated value the switch personnel provisioned prior to the office data base dump.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** RC will not populate this global parameter. ODA will initialize this parameter to DBNO in 5e9.1 and to DBYES in 5e9.2 and later software releases (see relation description for more on parameter initialization). The switch personnel will be instructed to change this parameter thru ODBE when the ATS feature software update is applied.

***Retrofit Rules:*** For the 5e9.1 to 5e9.2 software release retrofit, ODA should update any SM containing the value DBNO to DBYES for all SMs in the office. For all retrofits after the 5e9.2 software release, ODA should preserve the value that appears in the office data base at the time of retrofit.

***Default Rules:***

```
default = DBYES;
```

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

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```
/* RULE about Glatsact.values: */

          /* no check */ ;
```

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# Glatt_dadn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glatt_dadn | FR | DMdn |

### 1.1 Glatt_dadn

AT&T Directory Assistance (DA) Destination Number (DN)

### 1.2 Description

This global specifies the 10-digit destination number to be used by OSPS when a caller has selected Directory Assistance (DA) from the 1-800-CALL-ATT(R) front-end menu.

The 10-digit DN will be of the form NXX-NXX-XXXX where N=2-9 and X=0-9.

***Type:*** DBDN_PAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** {0,""}

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default.dn     = "";

default.digcnt = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* no check */
```

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# Glaudring

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaudring | FP | DMshort |

### 1.1 Fullname:

Global Office Parameter Glaudring

### 1.2 Description:

Contains the numbers of the peripheral channels which currently source audible ringing tones to the network

At power-up initialization, this variable should be initialized to 1. There is no way for the switch personnel to update this value, only the *5ESS*® -2000 switch software can do it.

This Global Parameter is unused by SM-2000. At initialization this parameter must be set to 1.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** This value should remain intact during a Generic Retrofit.

***Default Rules:***
```
default = 1;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
cktdefs.R
```

***Checks:***
```
/* RULE about Glaudring.values: */

BCaudring: if (current_pcr is_in sm_all) then
begin
        if( !SM2000(current_pcr) ) then
```

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```
                Glaudring is_in {0 thru 511};
end
```

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# Glauto_gdm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glauto_gdm | LR | DMbool |

### 1.1 Glauto_gdm

Global Office Parameter Glauto_gdm

### 1.2 Description

This parameter is used to specify whether an office will allow its large group data movement to occur automatically or whether it should be handled explicitly by the use of the 'Group Data Move' Recent Change view. The value DBYES means that the large data movement will occur automatically when need be. A value of DBNO means that large group data must be moved to specific modules before it can be used by line assignment.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** 0

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBYES;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glauto_gdm.values: */

        /* no check */ ;
```

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# Glauto_trblrpt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glauto_trblrpt | FR | DMbool |

### 1.1 Glauto_trblrpt

Global Office Parameter Glauto_trblrpt

### 1.2 Description

Specifies whether to allow automatic generation of a trouble report on entry of the back number for ANIF calls. DBYES means allow generation.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glauto_trblrpt.values: */

        /* no check */ ;
```

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# Glautodior

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glautodior | FP | DMbool |

### 1.1 Glautodior

Feature activation bit for automated initial DIOR calls.

### 1.2 Description

This parameter is used by an OSPS Special Feature which, when activated, allows an initial DIOR call to be automated.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** None.

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* Though this global parameter will be treated as
* group partitioned, since FG is not a valid distribution
* type for global parameters, FP will be used.  FP global
* parameters exist on all SMs, thus the following
* distribution rules:
*
* Please note that Glautodior's group partitioning will be
* enforced in the checks section.
for pcr in sm_all
pcrlist[pcr] = true;
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
/* RULE about Glautodior.values: */
```

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```
let pcrlist = get_gpd_pcrlist (GPD_OSPS,4);

if (current_pcr is_in sm_all) then
begin
        /* For SMs in the GPD_OSPS-4 group, Glautodior can take on
         * the full range of its domain.  We only must verify that
         * Glautodior is DBNO on SMs not in the group.
         */
        if ( pcrlist[current_pcr] == false ) then
        begin
                Glautodior == DBNO;
        end
end
```

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# Glautoevol

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glautoevol | LR | DMlong |

### 1.1 Glautoevol

Global Office Parameter Glautoevol

### 1.2 Description

This parameter is read by the auto-evolution process to determine which generic you will be retrofitting to. It is updated by ODD backup process to indicate the target generic.

This parameter is replacing the old dummy parameter Glcp2dummy.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** During retrofit, ODA should set the parameter to zero.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glautoevol.values: */

        /* no check */ ;
```

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# Glaws

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glaws | LRFR | DMbool |

### 1.1 Fullname:

Global Office Parameter Glaws

### 1.2 Description:

This global parameter is used to indicate whether this is an office which consists of a single SM connected to an Administrative Work Station via *Ethernet*® This global parameter is not synonomous to VCDX or DRM.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** This parameter is:

```
 1) Set to DBYES for VCDX/DRM offices and Wireless Centrex (WCTX).
 2) Not changeable by recent change in any application.
```

***Retrofit Rules:*** None.

***Default Rules:***

```
default=DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
        /* None. */
```

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## 3.13 Glb

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# Glbalntwk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbalntwk | LR | DMbool |

### 1.1 Glbalntwk

Global Office Parameter Glbalntwk

### 1.2 Description

This global parameter indicates whether the office has selectable balance networks or not. Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glbalntwk.values: */

        /* no check */ ;
```

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# Glbccscrec

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbccscrec | FR | DMbool |

### 1.1 Glbccscrec

Global Office Parameter Glbccscrec

### 1.2 Description

This is the Blocked CCS Call Recording bit. When it is set, it results in an AMA record for each calling card call that is blocked because of unsuccessful validation attempts.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glbccscrec.values: */

        /* no check */ ;
```

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# Glbchncnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbchncnt | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glbchncnt

### 1.2 Description:

This global parameter is the count of standard and custom PRI B-Channels and OSPS Interflow B-Channels. In each SM, this parameter will indicate the total number of B-channels assigned to PRI and OSPS and is used to determine the number of RLdalb tuples to allocate.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** RTrc_parms,

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by RC and ODA. It is established by ODA and will be updated by RC as PRI are inserted or deleted. Its value can increase and decrease.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glbchncnt: */

/* runslow added due to linear search of FC_PORTTYP and excessive cpu usage */
if (runslow) then
begin
```

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```
if (current_pcr is_in { 1 thru 192 }) then
begin
    Glbchncnt == (sum RLprigrp.num_bchans) +
                 count { fc_porttyp in RLfc_porttyp
                         where ((fc_porttyp.lp_type == PCTBCHAN) &&
                                ((fc_porttyp.servclass == OA_IFOPER) ||
                                 (fc_porttyp.servclass == OA_IFTERM))) };
end
end
```

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# Glbcl3mnth

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbcl3mnth | FR | DMunl11 |

### 1.1 Glbcl3mnth

Minimum threshold value of BC trunk layer 3 errors

### 1.2 Description

This office parameter is used to indicate the minimum (troubled) threshold for service-affecting level 3 errors on BCs for the entire switch. When this threshold (Glbcl3mnth) is reached, an entry for this BC trunk will be placed in a table that tracks BCs experiencing errors and the entry is time-stamped. If the maximum (remove) threshold (Glbclmxth) is reached, the current time and the time-stamp of the table entry are compared. If the time difference is less than a pre-defined time, the BC is taken out-of-service. If the time difference is greater than the pre-defined time, then the error count is decremented by a pre-defined amount.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 500

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global parameter is not supported by RC, but is supported by ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 500;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glbcl3mnth.values: */

Glbcl3mnth is_in {0 thru 2048};

Glbcl3mnth <= Glbcl3mxth;
```

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# Glbcl3mxth

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbcl3mxth | FR | DMunl11 |

### 1.1 Glbcl3mxth

Maximum threshold value of BC trunk layer 3 errors

### 1.2 Description

This office parameter is used to indicate the maximum (remove) threshold for service-affecting level 3 errors on BCs for the entire switch. When the minimum threshold (Glbcl3mnth) is reached, an entry for this BC trunk will be placed in a table that tracks BCs experiencing errors and the entry is time-stamped. When the maximum threshold is reached, the current time and the time-stamp of the table entry are compared. If the time difference is less than a pre-defined time, the BC is taken out-of-service. If the time difference is greater than the pre-defined time, then the error count is decremented by a pre-defined amount.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 900

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global parameter is not supported by RC, but is supported by ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 900;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glbcl3mxth.values: */

Glbcl3mxth is_in {0 thru 2048};

Glbcl3mxth >= Glbcl3mnth;
```

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# Glblcycle

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glblcycle | LP | DMblcycle |

### 1.1 Glblcycle

Bulk Calling Line IDentification Billing Cycle

### 1.2 Description

This parameter holds the billing cycle in hours of BCLID feature. This parameter can hold one of the following values:

```
DBBL1   For 1 hour billing interval

DBBL2   For 2 hours billing interval

DBBL3   For 3 hours billing interval

DBBL4   For 4 hours billing interval

DBBL6   For 6 hours billing interval

DBBL8   For 8 hours billing interval

DBBL12  For 12 hours billing interval

DBBL24  For 24 hours billing interval
```

This parameter applies only for customers with usage-sensitive billing. The billing cycle determines how often the AMA will collect the BCLID counts from the SMs for the usage-sensitive customers.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBBL24

***AM Initial Value:*** DBBL24

***CMP Initial Value:*** DBBL24

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBBL24;
```

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***Distribution Rules:***

```
/* standard - LP ( AM ) */

;
```

***Checks:***

```
/* RULE about Glblcycle.values: */

        /* no check */ ;
```

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# Glbllng_blck

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbllng_blck | FR | DMbool |

### 1.1 Glbllng_blck

Global Office Parameter Glbllng_blck

### 1.2 Description

Default treatment for indeterminate query response.

DBNO Let the call go through.

DBYES Block the call.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glbllng_blck.values: */

        /* no check */ ;
```

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# Glblorsnd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glblorsnd | LRFR | DMshort |

### 1.1 Glblorsnd

Global Office Parameter Glblorsnd

### 1.2 Description

Glblorsnd is the time interval to wait before resending a CCS blocking signal (TUP/ISUP protocols) when failing to receive the acknowledgement in response to the initial CCS blocking signal sent. This parameter is used in the AM and SM and is specified in seconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 10

***CMP Initial Value:*** 10

***RC/ODA Rules:*** ODA should populate with default value for new office but preserve value from data base during retrofits and growths. This parameter is used only when the office contains CCS7 trunks as shown when one or more tuples of RLrt_trkg have in_sigtype or out_sigtype set to DBISUP7 or DBTUP7.

Insure that the SM value is the same as the AM value.

***Retrofit Rules:*** The original value in the AM should be populated in the SMs.

***Default Rules:***

```
default = 10;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glblorsnd.values: */

Glblorsnd is_in {4 thru 15};
```

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# Glblv_act

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glblv_act | FP | DMbool |

### 1.1 Glblv_act

Global Office Parameter Glblv_act

### 1.2 Description

This parameter indicates whether the BLV feature has been activated for this OSPS office (DBYES). It is Group Partitioned, restricted to PSMs only; that is, SMs with grp_type = GPD_OSPS and grp_id = 1 (see RLdb_gpdus.P).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OSPS,1);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
/* RULE about Glblv_act.values: */

        /* no check */ ;
```

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# Glblv_digst

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glblv_digst | FP | DMda_tree |

### 1.1 Glblv_digst

Global Office Parameter Glblv_digst

### 1.2 Description

This parameter gives the digtree start value for busy line verification. It is Group Partitioned, restricted to PSMs only; that is, SMs with grp_type = GPD_OSPS and grp_id = 1 (see RLdb_gpdus.P). The default value of 0 indicates that there is no BLV digit analysis information.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OSPS,1);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glblv_digst.values: */

Glblv_digst is_in {0 thru 99};

end
```

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# Glblvsx

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glblvsx | FP | DMscrnidx |

### 1.1 Glblvsx

Global Office Parameter Glblvsx

### 1.2 Description

This parameter gives the screening index for busy line verification. It is Group Partitioned, restricted to PSMs only; that is, SMs with grp_type = GPD_OSPS and grp_id = 1. (see RLdb_gpdus.P) Glblvsx is the screening index for blv. The blv screening index is a unique index into the RLrt_scrning relation which is used for digit analysis.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OSPS,1);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glblvsx.values: */

Glblvsx is_in {0 thru 4095};

end
```

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# Glbnsalmthr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbnsalmthr | LR | DMuns7 |

### 1.1 Glbnsalmthr

Global Office Parameter Glbnsalmthr

### 1.2 Description

BVA BNS software alarm threshold, which is a value for the successful query percentage. If the percentage falls below this threshold an alarm is activated.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 95

***CMP Initial Value:*** 95

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 95;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glbnsalmthr.values: */

Glbnsalmthr is_in {0 thru 100};
```

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# Glbnsminqry

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbnsminqry | LR | DMuns7 |

### 1.1 Glbnsminqry

Global Office Parameter Glbnsminqry

### 1.2 Description

BVA Minimum BNS query attempts required in a quarter hour before BNS query software alarm calculations will be performed.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 40

***CMP Initial Value:*** 40

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 40;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glbnsminqry.values: */

Glbnsminqry is_in {1 thru 64};
```

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# Glbnsnai

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbnsnai | FR | DMbool |

### 1.1 Glbnsnai

Global Office Parameter Glbnsnai

### 1.2 Description

This global is reserved for future OSPS Special feature development work. It should be initialized to DBNO.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glbnsnai: */

        /* no checks */
```

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# Glbnsovldtm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbnsovldtm | LR | DMuns4 |

### 1.1 Glbnsovldtm

Global Office Parameter Glbnsovldtm

### 1.2 Description

BNS data base overload timing for cut back controls. This timing parameter indicates how long BNS query cutback controls will be in affect for any non-zero overload level received from the data base. Range is in minutes from 0 to 8, with 0 actually being 5 seconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 1

***CMP Initial Value:*** 1

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 1;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glbnsovldtm.values: */

Glbnsovldtm is_in {0 thru 8};
```

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# Glbnstime

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbnstime | LRFR | DMuns4 |

### 1.1 Glbnstime

Global Office Parameter Glbnstime

### 1.2 Description

BVA BNS query time out parameter. Time allowed for BNS query to respond. This parameter, specified in seconds, indicates longest period of time that call processing will wait for a BNS reply from the data base. A timeout will result in the operators following local practices to obtain verification. Since the level of query traffic that can be handled decreases as the holding time increases, extreme care should be used when increasing the value above the default value.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2

***AM Initial Value:*** 2

***CMP Initial Value:*** 2

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 2;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glbnstime.values: */

Glbnstime is_in {1 thru 8};
```

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# Glbranding

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbranding | FP | DMbool |

### 1.1 Fullname:

Global Office Parameter Glbranding

### 1.2 Description:

This parameter indicates whether a branding phrase should be used indicating the carrier for the call. DBYES means that a branding phrase is to be used. DBNO means no branding phrase is to be used.

RESTRICTIONS: Glbranding cannot be DBYES if Glospsta is DBNO.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** POPULATION: GROUP_PARTITIONED This parameter is group partitioned with grp_type=GPD_OPRT and grp_id=3. That is, it exists on all SMs with operator traffic trunks, and all loaded SMs. An SM that carries operator traffic trunks is one in which one or more tuples in rlFC_PORTTYPE have the attribute servclass set to FC_ISPOPR.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        pcrlist = get_gpd_pcrlist (GPD_OPRT,3);
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
/* RULE about Glbranding.values: */

        /* no check */ ;

/* RULE about Glbranding: */
```

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```
if (current_pcr is_in { 1 thru 192 }) then
begin
        if (Glospsta == DBNO) then
        begin
                Glbranding == DBNO;
        end
        else
        begin
                if (get_gpd_pcrlist(GPD_OPRT,3)[current_pcr])
                then
                        Glbranding is_in {DBYES, DBNO};
                else
                        Glbranding == DBNO;
        end
end
```

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# Glbrcsacd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbrcsacd | LRFR | DMbool |

### 1.1 Glbrcsacd

ACD/BRCS measurements status for whole office.

### 1.2 Description

This parameter specifies whether the ACD/BRCS feature is on. DBYES means the feature is on. DBNO means the feature is off. In support of System Resource Engineering, this global parameter is being distributed to the AM/CMP and to each SM. A trigger function is being added to administer rlCV_STATE dynamic relation tuples. Changes to the other parameters (including Gl_cacd) are completely independent of Glbrcsacd.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** RC and ODA will base the value of this global parameter on Secure Feature SFID121. When SFID121 is active, Glbrcsacd is DBYES. When SFID121 is inactive, Glbrcsacd is DBNO.

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Import:***
```
"chk_apperm.R"
```

***Checks:***
```
/* RULE about ACD permitted by office type */

if (c_aperm(PVOBRACD,CONFIGMAX) == false) then
begin
        Glbrcsacd == DBNO;
end
```

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# Glbrcsdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbrcsdb | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glbrcsdb

### 1.2 Description:

The Glbrcsdb global parameter contains an SM's current rlBRCSDB tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***NOTE:*** The algorithm in this file must be the same as the algorithm in fc/FCtrigint/FCbrcscnt.c which is the init code for Glbrcsdb. So if the algorithm in this file changes verify that it is consistent with the init code algorithm.

ODA has agreed to make the calculation changes in 5e10 even though the changes were made to this file in 5e11.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as ISDN lines and users are assigned and DNs are shared. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
"env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
```

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```
begin

/* RULE about Glbrcsdb.values: */

        Glbrcsdb is_in {0 thru 32000};
if (runucv) then
begin
if (Glbrcsdb != 0) then
begin
        find == 1 lpconf in RLlpconfig
        where ((lpconf.smconfig == Glconfigname) &&
               (lpconf.package == GLISDNBRCS))
        when_found
        begin
/*            Glbrcsdb is_in {1 thru (DBQNBRCSDB - DBSFBRCSDB)};   */
              Glbrcsdb is_in {1 thru (32000 - 0)};
        end
end

end

/* RULE about Glbrcsdb: */


        function func() returning int
        begin
                adjfactor = 100;
                scafactor = 10;
                sdnfactor = 1 + (2/10);

                dsls = Gldslcnt - Glpri_cnt
                                - Glacdp_cnt
                                + Glmdslcnt
                                + ( ( Glpribcnt+9 )/10 );

                if (dsls < 0)
                then
                begin
                        dsls = 0;
                end

                mu = (((4 * dsls * 180) + (30 * Glacdp_cnt * 90)) / 3600)
                     +
                     ((adjfactor * (dsls + Glacdp_cnt))
                      /
                      (scafactor + (dsls + Glacdp_cnt)));

                a = 0;
                brcsdb = 0;

                sigma = sqrt ( mu );

                if ((Gltermcnt * (Glsdnnum + Gllsdnnum)) == 0) then
                begin
```

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```
                        a = 1;
                end
                else
                begin
                        a = (((Glis_line - (Glsdnnum + Gllsdnnum) +
                             ((Glsdntrm * 120 + 99) / 100)) +
                             (Glis_line - 1)) / Glis_line);
                end

                brcsdb = (a * ((5 * sigma) + mu));

                return brcsdb;
        end

if (runucv) then
begin

if (current_pcr is_in sm_all) then
begin
        let BRCSDB = func();

/*      if (BRCSDB + Glibrcsdb <= (DBQNBRCSDB - DBSFBRCSDB)) then  */
        if (BRCSDB + Glibrcsdb <= (32000 - 0)) then
        begin
                Glbrcsdb >= BRCSDB + Glibrcsdb;
        end
        else
        begin
/*              Glbrcsdb == DBQNBRCSDB - DBSFBRCSDB;    */
                Glbrcsdb == 32000 - 0;
        end
end
end
end
```

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# Glbrgdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbrgdb | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter rlBRGDB Tuple Count

### 1.2 Description:

The Glbrgdb global parameter contains an SM's current rlBRGDB tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 64

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global parameter is not supported by RC. The value of this parameter is established by ODA as well as its initial value and will be updated by trigger functions as Glibrgdb is increased. It will never be decreased.
This global parameter needs special support for the Large Terminal Growth (LTG) process. As per requirements ODA is not supporting an equivalent ODA form.
Whenever adding or deleting a population rule for CALEA that has LTG impact, you must contact the ODA Support Group for LTG to modify the CALEA #include file.

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 64;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glbrgdb.values: */
if (current_pcr is_in sm_all) then
begin

/*      Glbrgdb is_in {64 thru (DBQNBRGDB - DBSFBRGDB)};        */
        Glbrgdb is_in {64 thru (511 - 0)};
```

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```
/* RULE about Glbrgdb: */

/*      if (64 + Glibrgdb <= (DBQNBRGDB - DBSFBRGDB)) then      */
        if (64 + Glibrgdb <= (511 - 0)) then
                Glbrgdb >= (64 + Glibrgdb);
        else
/*              Glbrgdb == DBQNBRGDB - DBSFBRGDB;   */
                Glbrgdb is_in {64 thru (511 - 0)};
end
```

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# Glbrirdta

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbrirdta | LP | DMuns4 |

### 1.1 Glbrirdta

Global Office Parameter Glbrirdta, RDTA session limit

### 1.2 Description

This global office parameter will contain the limit to the number of simultaneous Remote Digital Test Access sessions for BRI monitoring in an SM. The parameter is not used in any way for PRI monitoring. The parameter is populated on the AM. A value of zero will disallow any BRI monitoring RPA sessions from being active but does not disallow BRI monitoring RPA sessions or PRI monitoring sessions from being populated.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard - LP ( AM ) */

;
```

***Checks:***
```
/* RULE about Glbrirdta.values: */

Glbrirdta on am is_in {0 thru 15};

/* RULE about Glbrirdta: */

if (Glbrirdta on am > 0) then
begin
        Glrdtadas > 0;
```

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```
        Glrdtasrnx > 0;
end
```

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# Glbsddigit

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbsddigit | FP | DMchr |

### 1.1 Glbsddigit

Global Office Parameter Glbsddigit

### 1.2 Description

BSD digit for office. Used by Export.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0x2a

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glbsddigit.values: */

Glbsddigit == "" ||
Glbsddigit ~== "[*#]";
end
```

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# Glbsyann

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbsyann | FR | DMbool |

### 1.1 Glbsyann

Busy Announcement Activation

### 1.2 Description

CCS Busy announcement prompt activation indicator for DIOR sequence call enhancements.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5e9_1 or 5e9_2, this parameter must be set to the value in Gloff2{6}.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glbsyann.values: */

        /* no checks */
```

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# Glbtchinh

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbtchinh | LR | DMbool |

### 1.1 Glbtchinh

Global Office Parameter Glbtchinh

### 1.2 Description

Inhibit batch release process.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBYES;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glbtchinh.values: */

        /* no check */ ;
```

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# Glbtchitv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbtchitv | LR | DMshort |

### 1.1 Glbtchitv

Global Office Parameter Glbtchitv

### 1.2 Description

Hour interval between scheduled releases.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 1

***CMP Initial Value:*** 1

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glbtchitv.values: */

Glbtchitv is_in {0 thru 24};
```

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# Glbtchtod

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glbtchtod | LR | DMshort |

### 1.1 Glbtchtod

Global Office Parameter Glbtchtod

### 1.2 Description

Minutes past hour batch releases should be scheduled.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glbtchtod.values: */

Glbtchtod is_in {0 thru 59};
```

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## 3.14 Glc

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# Glc1monittr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glc1monittr | FR | DMdn |

### 1.1 Glc1monittr

Global Office Parameter Glc1monittr

### 1.2 Description

CAMA trunk trouble code. Currently these four parameters Glc1monittr Glc2monittr Glc3monittr and Glc4monittr are populated with DNs for a CAMA operator to use. These signify that some sort of trouble was experienced on connection to the customer.

These are only used for offices which contain a TSPS CAMA operator interface. There are no checks currently which verify that any of these are input for those offices however, it should be normal procedure to at least populate one of the fields (999-999 is commonly used). For the Spencer port offices, there is no TSPS interface for CAMA operators. This means that a ONI-destined call should be switched to an outgoing AN1 trunk group with the AN1 digits telling the *4ESS™* switch (or other toll office) to request ON1. This will be done if the four parameters are all set to default values. Thus, if any of these is set, normal ON1 operation applies, if all are defaults, redirected ON1 applies.

***Type:*** DBDN_PAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** {0,""}

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glc1monittr.values: */

        /* no check */ ;
```

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# Glc2monittr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glc2monittr | FR | DMdn |

### 1.1 Glc2monittr

Global Office Parameter Glc2monittr

### 1.2 Description

CAMA trunk trouble code. Currently these four parameters Glc1monittr Glc2monittr Glc3monittr and Glc4monittr are populated with DNs for a CAMA operator to use. These signify that some sort of trouble was experienced on connection to the customer. These are only used for offices which contain a TSPS CAMA operator interface. There are no checks currently which verify that any of these are input for those offices however, it should be normal procedure to at least populate one of the fields (999-999 is commonly used). For the Spencer port offices, there is no TSPS interface for CAMA operators. This means that a ONI-destined call should be switched to an outgoing AN1 trunk group with the AN1 digits telling the *4ESS*$^{TM}$ switch (or other toll office) to request ON1. This will be done if the four parameters are all set to default values. Thus, if any of these is set, normal ON1 operation applies, if all are defaults, redirected ON1 applies.

***Type:*** DBDN_PAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** {0,""}

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glc2monittr.values: */

        /* no check */ ;
```

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# Glc3monittr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glc3monittr | FR | DMdn |

### 1.1 Glc3monittr

Global Office Parameter Glc3monittr

### 1.2 Description

CAMA trunk trouble code. Currently these four parameters Glc1monittr Glc2monittr Glc3monittr and Glc4monittr are populated with DNs for a CAMA operator to use. These signify that some sort of trouble was experienced on connection to the customer. These are only used for offices which contain a TSPS CAMA operator interface. There are no checks currently which verify that any of these are input for those offices however, it should be normal procedure to at least populate one of the fields (999-999 is commonly used). For the Spencer port offices, there is no TSPS interface for CAMA operators. This means that a ONI-destined call should be switched to an outgoing AN1 trunk group with the AN1 digits telling the *4ESS™* switch (or other toll office) to request ON1. This will be done if the four parameters are all set to default values. Thus, if any of these is set, normal ON1 operation applies, if all are defaults, redirected ON1 applies.

***Type:*** DBDN_PAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** {0,""}

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glc3monittr.values: */

        /* no check */ ;
```

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# Glc4monittr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glc4monittr | FR | DMdn |

### 1.1 Glc4monittr

Global Office Parameter Glc4monittr

### 1.2 Description

CAMA trunk trouble code. Currently these four parameters Glc1monittr Glc2monittr Glc3monittr and Glc4monittr are populated with DNs for a CAMA operator to use. These signify that some sort of trouble was experienced on connection to the customer. These are only used for offices which contain a TSPS CAMA operator interface. There are no checks currently which verify that any of these are input for those offices however, it should be normal procedure to at least populate one of the fields (999-999 is commonly used). For the Spencer port offices, there is no TSPS interface for CAMA operators. This means that a ONI-destined call should be switched to an outgoing AN1 trunk group with the AN1 digits telling the *4ESS™* switch (or other toll office) to request ON1. This will be done if the four parameters are all set to default values. Thus, if any of these is set, normal ON1 operation applies, if all are defaults, redirected ON1 applies.

***Type:*** DBDN_PAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** {0,""}

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glc4monittr.values: */

        /* no check */ ;
```

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# Glc7_rsm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glc7_rsm | LRFR | DMbool |

### 1.1 Glc7_rsm

Global Office Parameter TSS Number 7 allowed on RSMs

### 1.2 Description

This parameter is only set in offices that are allowed to be equipped with an International or a National version of the TSS 7 Signalling System No. 7 transport hardware for TSS 7 offices.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** ***NOTE:*** TSS 7 signaling isn't supported on RSMs, therefore Glc7_rsm should be populated with DBNO.

***Retrofit Rules:*** None.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* Glc7_rsm should equal DBNO. */

Glc7_rsm == DBNO;
```

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# Glc7alm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glc7alm | LR | DMuns7 |

### 1.1 Glc7alm

Customer Account Services, Transaction Capabilities

### 1.2 Description

Glc7alm: Indicates the Customer Account Services (CAS) Transaction Capabilities Application Part (TCAP) query software alarm threshold. Every fifteen minutes, counts of the number of CAS TCAP queries attempted and the number of queries with reply valid are sent to the Direct Signal System Process. The CAS TCAP query success rate is calculated from these counts and is compared to Glc7alm. If the percentage rate falls below this threshold an alarm is activated. Glc7alm is a TCA specifiable value, with a range of 0 - 100 and a default of 95. 95 being a percentage (such as, 95%).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 95

***AM Initial Value:*** 95

***CMP Initial Value:*** 95

***RC/ODA Rules:*** The default value for this parameter is 95.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 95;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glc7alm.values: */

Glc7alm is_in {0 thru 100};
```

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# Glc7min

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glc7min | LR | DMuns7 |

### 1.1 Glc7min

Minimum Number of CAS CCS7 TCAP Queries Attempted

### 1.2 Description

Glc7min: Indicates the minimum number of Indicates the Customer Account Services (CAS) CCS7 TCAP queries which must be attempted in a fifteen minute period in order for CAS Transaction Capabilities Application Part (TCAP) software alarm calculations to proceed. Every fifteen minutes, a count of the number of CAS CCS7 TCAP queries attempted is collected. If this count is less than Glc7min, no further alarm calculations are performed. This is a TCA specifiable value with a range of 1 - 64 and a default of 40.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 40

***AM Initial Value:*** 40

***CMP Initial Value:*** 40

***RC/ODA Rules:*** The default value for this parameter is 40.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 40;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glc7min.values: */

Glc7min is_in {1 thru 64};
```

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# Glc7npms

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glc7npms | LPFP | DMuns8 |

### 1.1 Glc7npms

Number of policed TSS 7 STP Point Codes in the national and international GSMs

### 1.2 Description

This parameter stores the total number of policed TSS 7 STP Point Codes in the national or international GSMs.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ***NOTE:*** The STP Policing features are not supported, therefore Glc7npms should be populated with 0.

***Retrofit Rules:*** None.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
pcrlist[193] = true;

for gsm_opc in RLgsm_opc
begin
      pcrlist[gsm_opc.gsm] = true;
end
```

***Checks:***

```
if ((current_pcr == am) || (current_pcr is_in sm_all)) then
begin
      /* Glc7npms should equal 0. */
      Glc7npms == 0;
end
```

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# Glcadalen

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcadalen | LRFR | DMshort |

### 1.1 Glcadalen

Global Office Parameter Glcadalen

### 1.2 Description

Length of cadence A in 50ms. This parameter indicates the number of 50ms. intervals in cadence A. Example: Domestic standard cadence is 6 seconds. There are 20 50ms. intervals in 1 second, thus 120 intervals in 6 seconds. The default value for domestic is 120.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 120

***AM Initial Value:*** 120

***CMP Initial Value:*** 120

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 120;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcadalen.values: */

        /* no check */ ;
```

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# Glcadblen

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcadblen | LRFR | DMshort |

### 1.1 Glcadblen

Global Office Parameter Glcadblen

### 1.2 Description

Length of cadence B in 50ms. This parameter indicates the number of 50ms. intervals in cadence B. Since this is a secondary cadence for domestic, the domestic default is 0.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcadblen.values: */

        /* no check */ ;
```

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# Glcal_info

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcal_info | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter RLCAL_INFO tuple count.

### 1.2 Description:

The Glcal_info global parameter contains an SM's current RLCAL_INFO tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 25

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA as well as its initial value and will be updated by trigger functions as Glical_inf is increased.
This global parameter needs special support for the Large Terminal Growth (LTG) process. As per requirements ODA is not supporting an equivalent ODA form.
Whenever adding or deleting a population rule for CALEA that has LTG impact, you must contact the ODA Support Group for LTG to modify the CALEA #include file.

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 25;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
     /* RULE about Glcal_info.values: */
     if (current_pcr is_in sm_all) then
     begin

         /* Glcal_info is_in {25 thru (DBQNCAL_INFO - DBSFCAL_INFO)}; */
            Glcal_info is_in {25 thru (511 - 0)};
```

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```
    /* RULE about Glcal_info: */

    /* if (25 + Glical_inf <= (DBQNCAL_INFO - DBSFCAL_INFO)) then */
       if (25 + Glical_inf <= (511 - 0)) then
                    Glcal_info >= (25 + Glical_inf);
       else
    /* Glcal_info == DBQNCAL_INFO - DBSFCAL_INFO;   */
       Glcal_info is_in {25 thru (511 - 0)};
end
```

# Glcal_trnk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcal_trnk | FP | DMushort |

### 1.1 Fullname:

CALEA trunk total

### 1.2 Description:

This Global Parameter will count the number of CALEA trunks on an sm that are assigned to a surveillance.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Recent Change will increment and decrement Glcal_trnk by 1 when RLfc_trunk.cal_state is updated to and from PC_CTONE_CALEA respectively. The value of this parameter is established by ODA and is initially set to 0.

```
/* Rule about Glcal_trnk and the SFID */
if (Glcal_trnk > 0) then
begin
       SFID 509 == Y;
end
```

This global parameter needs special support for the Large Terminal Growth (LTG) process. As per requirements ODA is not supporting an equivalent ODA form.
Whenever adding or deleting a population rule for CALEA that has LTG impact, you must contact the ODA Support Group for LTG to modify the CALEA #include file.

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
 if (current_pcr is_in sm_all) then
begin
```

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```
    let CAL_TRNK = count { fc_trunk in RLfc_trunk
                           where (fc_trunk.cal_state ==
                                  PC_CTONE_CALEA) };

    Glcal_trnk == CAL_TRNK;
end
```

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# Glcal1usr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcal1usr | LP | DMuns8 |

### 1.1 Fullname:

CALEA user id storage.

### 1.2 Description:

The id of a user that has logged onto the CALEA system.

An SECM process will populate this global parameter with a user id.

***Type:*** DB8STRPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ---

***AM Initial Value:*** \0

***CMP Initial Value:*** \0

***RC/ODA Rules:*** ODA will create one default tuple that will not come from any RC/ODA view.
This global parameter is not recent changeable.
This global parameter needs special support for the Large Terminal Growth (LTG) process. As per requirements ODA is not supporting an equivalent ODA form.
Whenever adding or deleting a population rule for CALEA that has LTG impact, you must contact the ODA Support Group for LTG to modify the CALEA #include file.

***Retrofit Rules:*** Retrofitting from 5e13.1 to 5e14.1 requires no evolution of this global parameter, the default value will be used by DBGEN. For all future generics the value of this parameter will be preserved over a retrofit.

***Default Rules:***
```
default = "\0";
```

***Distribution Rules:***
```
        /* standard - LP (am) */
        ;
```

***Checks:***
```
/* RULE about Glcal1usr: */

/* No checks */
```

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# Glcal2usr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcal2usr | LP | DMuns8 |

### 1.1 Fullname:

CALEA user id storage.

### 1.2 Description:

The id of a user that has logged onto the CALEA system.

An SECM process will populate this global parameter with a user id.

***Type:*** DB8STRPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ---

***AM Initial Value:*** \0

***CMP Initial Value:*** \0

***RC/ODA Rules:*** ODA will create one default tuple that will not come from any RC/ODA view.
This global parameter is not recent changeable.
This global parameter needs special support for the Large Terminal Growth (LTG) process. As per requirements ODA is not supporting an equivalent ODA form.
Whenever adding or deleting a population rule for CALEA that has LTG impact, you must contact the ODA Support Group for LTG to modify the CALEA #include file.

***Retrofit Rules:*** Retrofitting from 5e13.1 to 5e14.1 requires no evolution of this global parameter, the default value will be used by DBGEN. For all future generics the value of this parameter will be preserved over a retrofit.

***Default Rules:***
```
default = "\0";
```

***Distribution Rules:***
```
        /* standard - LP (am) */
        ;
```

***Checks:***
```
/* RULE about Glcal2usr: */

/* No checks */
```

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# Glcaleatog

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcaleatog | LRFR | DMbool |

### 1.1 Fullname:

CALEA feature toggle.

### 1.2 Description:

This global parameter will allow the CALEA feature to be toggled on and off.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***TRIGGER:*** RTcaleatog,

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** This global parameter only has Recent Change impact.
If (Glcaleatog == DBYES) then SFID 509 must be purchased.
This global parameter needs special support for the Large Terminal Growth (LTG) process. As per requirements ODA is not supporting an equivalent ODA form.
Whenever adding or deleting a population rule for CALEA that has LTG impact, you must contact the ODA Support Group for LTG to modify the CALEA #include file.

***Retrofit Rules:*** Retrofitting from 5e13.1 to 5e14.1 requires no evolution of this global parameter, the default value will be used by DBGEN. For all future generics the value of this parameter will be preserved over a retrofit.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */  /* redundant distribution */
```

***Checks:***
```
/* Rule about Glcaleatog: */

/* No Checks */
```

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# Glcalinvat

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcalinvat | LP | DMuns8 |

### 1.1 Fullname:

CALEA invalid attempts

### 1.2 Description:

This global parameter contains the maximum number of invalid login attempts since the last valid login, before a warning report (MML) is generated.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 3

***CMP Initial Value:*** 3

***RC/ODA Rules:*** ODA will create one default tuple that will not come from any RC/ODA view.
This global parameter is not recent changeable, it will be supported by MML commands.
This global parameter needs special support for the Large Terminal Growth (LTG) process. As per requirements ODA is not supporting an equivalent ODA form.
Whenever adding or deleting a population rule for CALEA that has LTG impact, you must contact the ODA Support Group for LTG to modify the CALEA #include file.

***Retrofit Rules:*** Retrofitting from 5e13.1 to 5e14.1 requires no evolution of this global parameter, the default value will be used by DBGEN. For all future generics the value of this parameter will be preserved over a retrofit.

***Default Rules:***
```
default = 3;
```

***Distribution Rules:***
```
        /* standard - LP (am) */
        ;
```

***Checks:***
```
/* RULE about Glcalinvat: */

Glcalinvat is_in {1 thru 7};
```

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# Glcalipadr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcalipadr | LP | DMbool |

### 1.1 Fullname:

CALEA IP address.

### 1.2 Description:

Allow or disallow update/delete of the CALEA IP address, a CALEA X.25/X.75/X.75' PVC, or a CALEA delivery OE.

This global parameter can only be updated via the surveillance administrator with login ID and password.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ---

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** ODA will create one default tuple that will not come from any RC/ODA view.
When this global parameter is set to DBNO, RC should not allow the CALEA IP address/PVC/OE to be updated or deleted.
RC only, if (Glcalipadr == DBYES) then SFID 509 must be purchased.
This global parameter needs special support for the Large Terminal Growth (LTG) process. As per requirements ODA is not supporting an equivalent ODA form. Whenever adding or deleting a population rule for CALEA that has LTG impact, you must contact the ODA Support Group for LTG to modify the CALEA #include file.

***Retrofit Rules:*** Retrofitting from 5e13.1 to 5e14.1 requires no evolution of this global parameter, the default value will be used by DBGEN. For all future generics the value of this parameter will be preserved over a retrofit.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard - LP (am) */
        ;
```

***Checks:***
```
/* RULE about Glcalipadr: */

/* No checks */
```

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# Glcalltrn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcalltrn | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter of Call Transfer Count for Lines/Trunks

### 1.2 Description:

The Glcalltrn global parameter contains an SM's count of lines and trunks which have a MFMWY feature assigned. Each SM will have it's own value of this count.

Its established by ODA and is updated by recent change mapping code. Its value is maintained over all initializations and updated via RC when an MW call transfer feature with the xfer option allowed is assigned or removed.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** OSincpcb,

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** The value of this parameter is established by ODA and will be updated by RC when an MW call transfer feature with xfer option allowed is assigned or removed. Its value can increase and decrease.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        where ( modatt.module is_in { 1 thru 192} )
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
```

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```
/* RULE about Glcalltrn.values per SM: */

Glcalltrn is_in {0 thru 65535};

end

/* RULE about Glcalltrn per SM: */

function get_caltcnt() returning int
begin

     mwt_count = 0;

     for fc_line in RLfc_line
     where ( fc_line.brc_trm == DBYES || fc_line.trmbfg == DBYES)
     begin
        /*
         * Perform a series of "let" statements to find all the
         * features on this line: terminal line and BFG. For
         * terminal features create a separate list of line and
         * BFG as well as a combined line/BFG list. Most of the
         * time, the combined one will be more convenient to
         * use, but the other ones are helpful in finding
         * where a feature came from so that we can read its
         * port/ltm tuple.
         */

        /* get all tuple (range values) for the line's RLtrmfeats */
        LINETRMTUPS = (( fc_line.brc_trm == DBYES) ?
                ({ t in RLtrmfeats
                        where (t.lpt_type == fc_line.lpt_type &&
                                t.lport == fc_line.lport)}):
                ({}));

        /* get all tuple (range values) for the BFG's RLtrmfeats */
        BFGTRMTUPS = ( (fc_line.trmbfg == DBYES)?
                ({ t in RLtrmfeats
                        where (t.lpt_type == LPT_BFG &&
                                t.lport == fc_line.bfgid) }):
                ({}));

        /* get all the feature entries in the line's tuples */
        /* (the "uniq" is for discarding extra null entries) */
        LINETRMFTENTS = uniq ( {
                        ftent in LINETRMTUPS.ftent1,
                        ftent in LINETRMTUPS.ftent2,
                        ftent in LINETRMTUPS.ftent3,
                        ftent in LINETRMTUPS.ftent4,
                        ftent in LINETRMTUPS.ftent5,
                        ftent in LINETRMTUPS.ftent6
                } );

        /* get all the feature entries in the BFG's tuples */
```

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```
   /* (the "uniq" is for discarding extra null entries) */
   BFGTRMFTENTS = uniq ( {
                  ftent in BFGTRMTUPS.ftent1,
                  ftent in BFGTRMTUPS.ftent2,
                  ftent in BFGTRMTUPS.ftent3,
                  ftent in BFGTRMTUPS.ftent4,
                  ftent in BFGTRMTUPS.ftent5,
                  ftent in BFGTRMTUPS.ftent6
          } );

   /* Combine line and BFG BRCS features. */
   TRMFTENTS = { ftent in LINETRMFTENTS, ftent in BFGTRMFTENTS };


   /* Check for MW call transfer feature entry
    * from the combined list.
    */
   if ( (count TRMFTENTS) > 0 ) then
          for ftent in TRMFTENTS
          where ( ftent.fid {10:15} == enum2int(MFMWY) )

                  /*
                   * Increment counter if the MW call
                   * transfer feature has these option
                   * allowed
                   */
                  for mwcf in RLmwcf
                  where (mwcf.feat_id == ftent.fid {0:9})
                         if (mwcf.xfer is_in {ALW_XFER,
                             XFER_ON_T
                             EXP_XFER}) then
                                mwt_count = mwt_count + 1;
end    /* RLfc_line */

/* RULE about RLfc_trunk.brc_trm */

for fc_trunk in RLfc_trunk
where ( fc_trunk.brc_trm == DBYES)
begin
   /*
    * Perform a series of "let" statements to find all the
    * terminal features on this trunk.
    */

   /* get all tuple (range values) for the trunk's RLtrmfeats */
   TRUNKTRMTUPS = ( (fc_trunk.brc_trm == DBYES) ?
                  ({ t in RLtrmfeats
                          where (t.lpt_type == LPT_OTHER &&
                                  t.lport == fc_trunk.lport) }):
                  ({}));


   /* get all the feature entries in the trunk's tuples */
   /* (the "uniq" is for discarding extra null entries) */
```

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```
        TRUNKTRMFTENTS = uniq ( {
                        ftent in TRUNKTRMTUPS.ftent1,
                        ftent in TRUNKTRMTUPS.ftent2,
                        ftent in TRUNKTRMTUPS.ftent3,
                        ftent in TRUNKTRMTUPS.ftent4,
                        ftent in TRUNKTRMTUPS.ftent5,
                        ftent in TRUNKTRMTUPS.ftent6
                } );


        /* trunks BRCS features. */
        TRMFTENTS = { ftent in TRUNKTRMFTENTS };


        /* Check for MW call transfer feature entry
         * from the combined list.
         */
        if ( (count TRMFTENTS) > 0 ) then
                for ftent in TRMFTENTS
                where ( ftent.fid {10:15} == enum2int(MFMWY) )

                        /*
                         * Increment counter if the MW call transfer
                         * feature has these option allowed
                         */
                        for mwcf in RLmwcf
                        where (mwcf.feat_id == ftent.fid {0:9})
                               if (mwcf.xfer is_in {ALW_XFER,
                                    XFER_ON_TN,
                                    EXP_XFER}) then

                                      mwt_count = mwt_count + 1;

     end   /* RLfc_trunk */

     return mwt_count;

end /* function */

if (runslow) then
begin
        if (current_pcr is_in sm_all) then
        begin
               /* The Global office Parameter MW call transfer
                * count should match the total number
                * of lines and trunks that has MW call transfer
                * with ALW_XFER, XFER_ON_TN and EXP_XFER.
                */
               let mwt_count = get_caltcnt();
Rgp_1:         Glcalltrn == mwt_count;
        end
end
```

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# Glcaloc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcaloc | FR | DMca_loc |

### 1.1 Glcaloc

Global Office Parameter Glcaloc

### 1.2 Description

Cause Value location field.

This parameter is used to determine the value of the Location Field when a Q.931 Cause Value information element (IE) is generated for a BRI or PRI.

If PUB_LOCAL is used, the Location Field in the Q.931 message will have a value of 0x2. If PRIV_LOCAL is used, the Location Field in the Q.931 message will have a value of 0x1.

A value of PUB_LOCAL should be used when the switch is deployed in a public network. A value of PRIV_LOCAL should be used when the switch is deployed in a private network.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** PUB_LOCAL

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = PUB_LOCAL;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcaloc.values: */

        /* no check */ ;
```

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# Glcalpwdag

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcalpwdag | LP | DMuns8 |

### 1.1 Fullname:

CALEA password aging

### 1.2 Description:

This global parameter contains the number of days allowed before a CALEA password expires.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 30

***CMP Initial Value:*** 30

***RC/ODA Rules:*** ODA will create one default tuple that will not come from any RC/ODA view.
This global parameter is not recent changeable, it will be supported by MML commands.
This global parameter needs special support for the Large Terminal Growth (LTG) process. As per requirements ODA is not supporting an equivalent ODA form.
Whenever adding or deleting a population rule for CALEA that has LTG impact, you must contact the ODA Support Group for LTG to modify the CALEA #include file.

***Retrofit Rules:*** Retrofitting from 5e13.1 to 5e14.1 requires no evolution of this global parameter, the default value will be used by DBGEN. For all future generics the value of this parameter will be preserved over a retrofit.

***Default Rules:***

```
default = 30;
```

***Distribution Rules:***

```
        /* standard - LP (am) */
        ;
```

***Checks:***

```
/* RULE about Glcalpwdag: */

Glcalpwdag is_in {1 thru 60};
```

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# Glcalropti

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcalropti | LP | DMuns8 |

### 1.1 Fullname:

CALEA ROP time interval.

### 1.2 Description:

The time interval used for testing the CALEA ROP to verify if it is operational.

An MML command (SET:ROPTI) must be used to access this global parameter.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA will create one default tuple that will not come from any RC/ODA view. This global parameter is not recent changeable, it will be supported by MML commands.
This global parameter needs special support for the Large Terminal Growth (LTG) process. As per requirements ODA is not supporting an equivalent ODA form.
Whenever adding or deleting a population rule for CALEA that has LTG impact, you must contact the ODA Support Group for LTG to modify the CALEA #include file.

***Retrofit Rules:*** Retrofitting from 5e13.1 to 5e14.1 requires no evolution of this global parameter, the default value will be used by DBGEN. For all future generics the value of this parameter will be preserved over a retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP (am) */
        ;
```

***Checks:***
```
/* RULE about Glcalropti: */

Glcalropti is_in { 0 thru 60 };
```

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# Glcalsecev

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcalsecev | LP | DMhex32 |

### 1.1 Fullname:

CALEA security events

### 1.2 Description:

Security administration related events.

```
 ------------------------------------------------
 |31|30|29|28|27|26|25|24|23|22|21|20|19|18|17|16|
 ------------------------------------------------
 | *| *| *| *| *| *| *| *| *| *| *| *| *| *| *| *|
 ------------------------------------------------

 ------------------------------------------------
 |15|14|13|12|11|10|09|08|07|06|05|04|03|02|01|00|
 ------------------------------------------------
 | *| *| *| *| *| *| *| *| *| *| *| *| 0| 0| 0| 0|
 ------------------------------------------------

 '*'  not used

 bit 00 = initiations and terminations
 bit 01 = valid administrative actions
 bit 02 = attempts to perform invalid administrative actions
 bit 03 = attempts for unauthorized system access
 bits 04-31 = not used
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** ---

***AM Initial Value:*** 0x00000000

***CMP Initial Value:*** 0x00000000

***RC/ODA Rules:*** ODA will create one default tuple that will not come from any RC/ODA view.
This global parameter is not recent changeable, it will be supported by MML commands. This global parameter needs special support for the Large Terminal Growth (LTG) process. As per requirements ODA is not supporting an equivalent ODA form.
Whenever adding or deleting a population rule for CALEA that has LTG impact, you must contact the ODA Support

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Group for LTG to modify the CALEA #include file.

***Retrofit Rules:*** Retrofitting from 5e13.1 to 5e14.1 requires no evolution of this global parameter, the default value will be used by DBGEN. For all future generics the value of this parameter will be preserved over a retrofit.

***Default Rules:***

```
default = 0x00000000;
```

***Distribution Rules:***

```
        /* standard - LP (am) */
        ;
```

***Checks:***

```
/* RULE about Glcalsecev: */

/* No checks */
```

# Glcalsm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcalsm | LP | DMuns8 |

### 1.1 Fullname:

CALEA Delivery SM.

### 1.2 Description:

All Call Content Channels (CCCs) must be provisioned on the same SM.

This global parameter contains the single SM designated as a "Delivery SM" for CALEA.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** The delivery SM must be valid for it to be designated as the CALEA SM.
This global parameter should be controlled by the switch administrator, not by a CALEA security administrator.
ODA will create one default tuple that will come from view 8.1.
This global parameter is recent changeable. Its value will be established by RC by assigning the designated CALEA delivery SM number to it.
RC only, during an update of CCCs, the update can only be to the SM specified by this global parameter.
RC only, if (Glcalsm is_in {1 thru 192}) then SFID 509 must be purchased.
This global parameter needs special support for the Large Terminal Growth (LTG) process. As per requirements ODA is not supporting an equivalent ODA form.
Whenever adding or deleting a population rule for CALEA that has LTG impact, you must contact the ODA Support Group for LTG to modify the CALEA #include file.

***Retrofit Rules:*** Retrofitting from 5e13.1 to 5e14.1 requires no evolution of this global parameter, the default value will be used by DBGEN. For all future generics the value of this parameter will be preserved over a retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP (am) */
        ;
```

***Checks:***

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```
/* RULE about Glcalsm: */

Glcalsm is_in { 0 thru 192 };

if ( Glcalsm is_in {1 thru 192} ) then
begin
        find == 1 modatt in RLmodatt
        where ( modatt.module == Glcalsm );
end
```

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# Glcalsurev

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcalsurev | LP | DMhex32 |

### 1.1 Fullname:

CALEA surveillance events

### 1.2 Description:

Surveillance administration related events.

```
 ------------------------------------------------
 |31|30|29|28|27|26|25|24|23|22|21|20|19|18|17|16|
 ------------------------------------------------
 | *| *| *| *| *| *| *| *| *| *| *| *| *| *| *| *|
 ------------------------------------------------

 ------------------------------------------------
 |15|14|13|12|11|10|09|08|07|06|05|04|03|02|01|00|
 ------------------------------------------------
 | *| *| *| *| *| *| *| *| *| *| *| *| 0| 0| 0| 0|
 ------------------------------------------------

 '*'  not used

 bit 00 = initiations and terminations
 bit 01 = all the surveillance administration tasks
 bit 02 = attempts to perform invalid administrative action
 bit 03 = attempts for unauthorized system access
 bits 04-31 = not used
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** ---

***AM Initial Value:*** 0x00000000

***CMP Initial Value:*** 0x00000000

***RC/ODA Rules:*** ODA will create one default tuple that will not come from any RC/ODA view.
This global parameter is not recent changeable, it will be supported by MML commands.
This global parameter needs special support for the Large Terminal Growth (LTG) process. As per requirements ODA is not supporting an equivalent ODA form.
Whenever adding or deleting a population rule for CALEA that has LTG impact, you must contact the ODA Support

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Group for LTG to modify the CALEA #include file.

***Retrofit Rules:*** Retrofitting from 5e13.1 to 5e14.1 requires no evolution of this global parameter, the default value will be used by DBGEN. For all future generics the value of this parameter will be preserved over a retrofit.

***Default Rules:***

```
default = 0x00000000;
```

***Distribution Rules:***

```
        /* standard - LP (am) */
        ;
```

***Checks:***

```
/* RULE about Glcalsurev: */

/* No checks */
```

# Glcaltmoti

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcaltmoti | LP | DMuns8 |

### 1.1 Fullname:

CALEA time out interval

### 1.2 Description:

This global parameter contains the CALEA terminal activity time value, measured in minutes.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 20

***CMP Initial Value:*** 20

***RC/ODA Rules:*** ODA will create one default tuple that will not come from any RC/ODA view.
This global parameter is not recent changeable, it will be supported by MML commands.
This global parameter needs special support for the Large Terminal Growth (LTG) process. As per requirements ODA is not supporting an equivalent ODA form. Whenever adding or deleting a population rule for CALEA that has LTG impact, you must contact the ODA Support Group for LTG to modify the CALEA #include file.

***Retrofit Rules:*** Retrofitting from 5e13.1 to 5e14.1 requires no evolution of this global parameter, the default value will be used by DBGEN. For all future generics the value of this parameter will be preserved over a retrofit.

***Default Rules:***
```
default = 20;
```

***Distribution Rules:***
```
        /* standard - LP (am) */
        ;
```

***Checks:***
```
/* RULE about Glcaltmoti: */

Glcaltmoti is_in {1 thru 60};
```

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# Glcaltty

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcaltty | LP | DMlong |

### 1.1 Fullname:

CALEA tty's

### 1.2 Description:

This global parameter contains a list of tty's currently logged on to CALEA.

An SECM process will populate this global with tty names.

```
bits  0-7  = first tty
bits  8-15 = second tty
bits 16-23 = not used
bits 24-31 = not used
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA will create one default tuple that will not come from any RC/ODA view.
This global parameter is not recent changeable.
This global parameter needs special support for the Large Terminal Growth (LTG) process. As per requirements ODA is not supporting an equivalent ODA form.
Whenever adding or deleting a population rule for CALEA that has LTG impact, you must contact the ODA Support Group for LTG to modify the CALEA #include file.

***Retrofit Rules:*** Retrofitting from 5e13.1 to 5e14.1 requires no evolution of this global parameter, the default value will be used by DBGEN. For all future generics the value of this parameter will not be preserved over a retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard - LP (am) */
        ;
```

***Checks:***

```
/* RULE about Glcaltty: */
```

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```
/* No checks */
```

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# Glcaopt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcaopt | LRFR | DMulong |

### 1.1 Glcaopt

Call Accounting Options Parameter

### 1.2 Description

Each bit in this parameter provides a billing option. This allows current checks to be replaced with checks on bits of this parameter.

```
Bit     Description



0       All bits [0-31] are reserved for future use

:

31
```

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***

```
/* rc access = none */
```

***Retrofit Rules:*** The value of this parameter will not be preserved through a retrofit.

***Default Rules:***

```
default = 0;
oda_default{0} = 0;
oda_default{1} = 0;
oda_default{2} = 0;
oda_default{3} = 0;
oda_default{4} = 0;
oda_default{5} = 0;
oda_default{6} = 0;
oda_default{7} = 0;
```

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```
oda_default{8} = 0;
oda_default{9} = 0;
oda_default{10} = 0;
oda_default{11} = 0;
oda_default{12} = 0;
oda_default{13} = 0;
oda_default{14} = 0;
oda_default{15} = 0;
oda_default{16} = 0;
oda_default{17} = 0;
oda_default{18} = 0;
oda_default{19} = 0;
oda_default{20} = 0;
oda_default{21} = 0;
oda_default{22} = 0;
oda_default{23} = 0;
oda_default{24} = 0;
oda_default{25} = 0;
oda_default{26} = 0;
oda_default{27} = 0;
oda_default{29} = 0;
oda_default{30} = 0;
oda_default{31} = 0;
```

***Distribution Rules:***

```
        /* Standard */
```

***Checks:***

```
if (Glfcafmt == AMNOFMT)
then    Glcaopt{0} == 0;
        Glcaopt{1} == 0;
        Glcaopt{2} == 0;
        Glcaopt{3} == 0;
        Glcaopt{4} == 0;
        Glcaopt{5} == 0;
        Glcaopt{6} == 0;
        Glcaopt{7} == 0;
        Glcaopt{8} == 0;
        Glcaopt{9} == 0;
        Glcaopt{10} == 0;
        Glcaopt{11} == 0;
        Glcaopt{12} == 0;
        Glcaopt{13} == 0;
        Glcaopt{14} == 0;
        Glcaopt{15} == 0;
        Glcaopt{16} == 0;
        Glcaopt{17} == 0;
        Glcaopt{18} == 0;
        Glcaopt{19} == 0;
        Glcaopt{20} == 0;
        Glcaopt{21} == 0;
        Glcaopt{22} == 0;
        Glcaopt{23} == 0;
        Glcaopt{24} == 0;
```

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```
Glcaopt{25} == 0;
Glcaopt{26} == 0;
Glcaopt{27} == 0;
Glcaopt{28} == 0;
Glcaopt{29} == 0;
Glcaopt{30} == 0;
Glcaopt{31} == 0;
```

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# Glcarbl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcarbl | FR | DMbool |

### 1.1 Glcarbl

Global Office Parameter Glcarbl

### 1.2 Description

This parameter specifies whether the calling party will be charged for the non-acceptance recording (announcement) as a result of 5E6 LASS Computer Access Restriction (CAR) screening. DBYES in this field indicates that the non- acceptance announcement is billable and the calling party will be charged accordingly.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcarbl.values: */

Glcarbl is_in {DBNO, DBYES};
```

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# Glcardnai

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcardnai | FR | DMbool |

### 1.1 Glcardnai

Global Office Parameter Glcardnai

### 1.2 Description

This global is reserved for future OSPS special feature development work. It should be initialized to DBNO.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glcardnai: */

        /* no checks */
```

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# Glcarmx

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcarmx | FR | DMuchar |

### 1.1 Glcarmx

Global Office Parameter Glcarmx

### 1.2 Description

This parameter indicates the maximum number of DN on the list of the 5E6 LASS feature Computer Access Restriction (CAR). The initial default values of this parameter should be 6 and changeable through RC/V or ODBE.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 6

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 6;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcarmx.values: */

Glcarmx is_in {3 thru 31};
```

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# Glcarrdeny

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcarrdeny | FR | DMbool |

### 1.1 Fullname:

Global Office Parameter Glcarrdeny

### 1.2 Description:

This parameter indicates whether an IBNS R2 call should be denied by the carrier after cuckoo tone has been applied.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glcarrdeny values: */
```

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# Glcarrid

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcarrid | FR | DMcarrid |

### 1.1 Glcarrid

Global Office Parameter Glcarrid

### 1.2 Description

Specifies the carrier to be used to make interexchange calls from lines which have not specified a primary carrier. It can be entered as a one, two, three, or four digit CIC, where each of the digits can be '0' thru '9'.

If the carrier id is entered as one, two or three characters, then the unspecified characters are '0'. As an example, if the user enters twelve as the carrier code, then the zero and first numbered elements are '0'.

```
Glcarrid[0] = '0'

Glcarrid[1] = '0'

Glcarrid[2] = '1'

Glcarrid[3] = '2'
```

***Type:*** DB4STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** "\0"

***AM Initial Value:*** "NULL"

***CMP Initial Value:*** "NULL"

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** 5E8 to 5E9 Prepend an appropriate number of zeros to a one, two, or three digit CIC to create a four digit CIC.

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcarrid.values: */

        /* no check */ ;
```

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# Glcarrt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcarrt | FR | DMrteidx |

### 1.1 Fullname:

Global Office Parameter Glcarrt

### 1.2 Description:

This parameter indicates the routing index to an announcement as a non-acceptance treatment of the 5E6 LASS Computer Access Restriction (CAR).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
AVextern.R
```

***Checks:***
```
/* RULE about Glcarrt.values: */

Glcarrt is_in {0 thru AVRIMAX()};
```

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# Glcartone

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcartone | FR | DMbool |

### 1.1 Fullname:

400Hz Carrier Tone

### 1.2 Description:

This parameter shall be used to provide the 400Hz Carrier Tone as the system tone. DBYES indicates that Carrier Tone will be provided. This parameter will be referenced by PC during LDSU/LDSF/LDSF2 unit initialization when providing Carrier Tone.

SFID498 must be unlocked prior to changing this field from the default value. SFID498 is temporary and will only be supported in 5E13 BMI. Beginning in 5E13 SU, SFID498 will be replaced with SFID165.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***TRIGGER:*** PCcartone_trig,

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glcartone.values: */

Glcartone is_in {DBNO, DBYES};

if (Glcartone == DBYES) then
begin
        /* SFID498 must be unlocked in 5E13 BMI.
```

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```
        * SFID165 must be unlocked in 5E13 SU.
        */
end
```

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# Glcas_4dgtalw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcas_4dgtalw | FR | DMbool |

### 1.1 Glcas_4dgtalw

Global Office Parameter Glcas_4dgtalw

### 1.2 Description

This parameter indicates whether the customer can dial four digit PIN only for calling card calls. (Pre-authorized collect feature).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBYES;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcas_4dgtalw.values: */

        /* no check */ ;
```

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# Glcas_indblk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcas_indblk | FR | DMbool |

### 1.1 Glcas_indblk

Global Office Parameter Glcas_indblk

### 1.2 Description

This parameter indicates whether the call should be blocked if the Customer Account Services (CAS) card query response is indeterminate. DBYES indicates that the calls are blocked.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcas_indblk.values: */

        /* no check */ ;
```

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# Glcas_on

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcas_on | FR | DMbool |

### 1.1 Glcas_on

Global Office Parameter Glcas_on

### 1.2 Description

This parameter indicates whether the AT&T customer accounts services (CAS) feature is turned on.

When it is set to DBYES, RLcnh_cas, RLicnh_cas, and RLicrh_cas must be populated with a minimum of one tuple. DEFAULT is DBNO.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcas_on.values: */

        /* no check */ ;
```

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# Glcas3

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcas3 | FR | DMbool |

### 1.1 Glcas3

CAS R3 feature activation parameter

### 1.2 Description

This global is used to activate processing customer account services release 3 (CAS R3) calls. It has the following meaning: if 0, CAS R3 processing is off; if 1, CAS R3 processing is on. DBNO=0 DBYES=1.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** This parameter should be set to DBNO upon retrofit to 5E7.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glcas3.values: */

        /* no check */ ;

/* RULE about Glcas3: */

if (Glcas3 == DBYES) then
begin

/* CAS R1 Global Parameter Must Be Enabled */
        Glcas_on == DBYES;

        /* CAS R2 Global Parameter Must Be Enabled */
```

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```
        Glccc_on == DBYES;

        /* RLtccid must have at least one tuple populated */

        find == 1 db_amgpd in RLdb_amgpd
        where (db_amgpd.grp_type == GPD_OSPS &&
                db_amgpd.grp_id == 3)
        when_found
        begin
                for x in { 1 thru 7 }
                where (db_amgpd.pcr_map[x] != 0)
                begin
                     for bit in { 0 thru 31 }
                     where (db_amgpd.pcr_map[x]{bit} == 1)
                     begin
                         count RLtccid on (x - 1) * 32 + bit >= 1;
                     end
                end
        end
end
```

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# Glcasalmthr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcasalmthr | LR | DMuns7 |

### 1.1 Glcasalmthr

Global Office Parameter Glcasalmthr

### 1.2 Description

CAS software alarm threshold, which is a value for the successful query percentage. If percentage falls below this threshold an alarm is activated. DEFAULT is 95.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 95

***CMP Initial Value:*** 95

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 95;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcasalmthr.values: */

        Glcasalmthr is_in {0 thru 100};
```

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# Glcasminqry

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcasminqry | LR | DMuns7 |

### 1.1 Glcasminqry

Global Office Parameter Glcasminqry

### 1.2 Description

Minimum Customer accounts services (CAS) query attempts required in a quarter hour before CAS software alarm calculations will be performed.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 40

***CMP Initial Value:*** 40

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 40;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcasminqry.values: */

Glcasminqry is_in {1 thru 64};
```

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# Glcastime

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcastime | LRFR | DMuns7 |

### 1.1 Glcastime

Global Office Parameter Glcastime

### 1.2 Description

This parameter specifies the value, in tenths of seconds, of the time to wait for a customer accounts services (CAS) query reply. The parameter can be changed in tenths of seconds increments.

This parameter indicates the longest period of time that call processing will wait for a CAS reply from the data base. A timeout will result in call processing continuing the call as indicated by the Glcas_indblk.

Since the level of query traffic that can be handled decreases as the holding time increases, extreme care should be used when increasing the value above the default value.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** 20

***CMP Initial Value:*** 20

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 20;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcastime.values: */

        /* no check */ ;
```

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# Glcatltype

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcatltype | FP | DMcatltype |

### 1.1 Glcatltype

Global Office Parameter Glcatltype

### 1.2 Description

The initial value is project group dependent. In Saudi Arabian projects 'TMAAD2' must be set. In Dutch projects 'TMATEMA1' must be set. In other export project groups which do not support CATL, 'TMNOCATL' must be set. Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** TMNOCATL

***AM Initial Value:*** TMNOCATL

***CMP Initial Value:*** TMNOCATL

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** The current value of this parameter must be retained for generic retrofits.

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glcatltype.values: */

Glcatltype is_in {TMNOCATL, TMAAD2, TMATEMA1};

end
```

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# Glcbdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcbdb | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glcbdb

### 1.2 Description:

The Glcbdb global parameter contains an SM's current rlCBDB tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions if additional tuples are required. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glcbdb.values: */

if (current_pcr is_in sm_all) then
begin
/*      Glcbdb is_in {0 thru (DBQNCBDB - DBSFCBDB)};    */
        Glcbdb is_in {0 thru (2047 - 0)};
end
```

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```
/* RULE about Glcbdb: */

function func() returning int
begin

                avosscbs = 0;
                avossysp = 0;
                cbdb = 0;

        /* AVOSSCBS = Maximum number of OSDS SCBs */
        /* AVOSSYSP = Number of OSDS System Processes */

        select (Glconfigname)
        begin
            when (CNFG000):
            begin
                avosscbs = 220;
                avossysp = 89;
            end
            when (CNFG001):
            begin
                avosscbs = 220;
                avossysp = 91;
            end
            when (CNFG002):
            begin
                avosscbs = 480;
                avossysp = 105;
            end
            when (CNFG003):
            begin
                avosscbs = 480;
                avossysp = 105;
            end
            when (CNFG2K00):
            begin
                avosscbs = 1105;
                avossysp = 105;
            end
        end

        lnbst = count { lprt_pos in RLlprt_pos
                where ( lprt_pos.pos_typ == OA_BST ) };

        if ( lnbst > 200 ) then
                lnbst = 200;

        cbdb = avosscbs - avossysp + lnbst + Glnvdt + Glnint + Glnraf;

        return cbdb;
end
if (runucv) then
begin
```

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```
if (current_pcr is_in sm_all) then
begin

        let CBDB = func();

/*      if (CBDB + Glicbdb <= (DBQNCBDB - DBSFCBDB)) then       */
        if (CBDB + Glicbdb <= (2047 - 0)) then
Mcbdb1:         Glcbdb >= CBDB + Glicbdb;
        else
/*              Glcbdb == DBQNCBDB - DBSFCBDB;  */
                Glcbdb == 2047 - 0;
end

end
```

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# Glccc_on

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccc_on | FR | DMbool |

### 1.1 Glccc_on

Global Office Parameter Glccc_on

### 1.2 Description

This parameter indicates whether the OSPS Customer Account Services feature with the capability to handle Commercial Credit Cards (CCC) or other non-AT&T telecommunication cards (TEL) is activated.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Restrictions: When it is set to DBYES, the Glcas_on and Glospsta have to be DBYES as well.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glccc_on.values: */

        /* no check */ ;
```

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# Glccctbong

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccctbong | FR | DMuns7 |

### 1.1 Glccctbong

Global Office Parameter Glccctbong

### 1.2 Description

This parameter indicates the timing interval from the 'BONG' tone to initial digit reception for the customer dialed 0+ ACCS call. Timeout will bailout this call to an operator position.

It will have no effect unless Glccc_on is set to DBYES.

The unit for this parameter is tenths of seconds and can be changed in tenths of seconds increments.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 50

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 50;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glccctbong.values: */

Glccctbong is_in {20 thru 90};
```

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# Glccctrest

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccctrest | FR | DMuns7 |

### 1.1 Glccctrest

Global Office Parameter Glccctrest

### 1.2 Description

For the customer dialed 0+ ACCS call, this parameter indicates the inter-digit timing interval for all card types (CAS, CCC, and TEL) from the first digit after the 'BONG' tone, with a value of 1-9, until the last of a maximum of 34 digits is received. A timeout will be considered to be the end of the calling card number entry process. Call processing will give proper treatment to this call depending on the received calling card number.

Note that if the account number has a variable number of digits, this parameter is used to determine the end of calling card number entry process.

It will have no effect unless Glccc_on is set to DBYES.

The unit for this parameter is tenths of seconds and can be changed in tenths of seconds increments.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 50

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 50;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glccctrest.values: */

Glccctrest is_in {20 thru 90};
```

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# Glccctzero

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccctzero | FR | DMuns7 |

### 1.1 Glccctzero

Global Office Parameter Glccctzero

### 1.2 Description

For customer dialed 0+ ACCS call, this parameter indicates the timing interval for all card types (CAS, CCC, and TEL) to route a call to an operator position when the initially dialed card number is a '0' after the 'BONG' tone.

It will have no effect unless Glccc_on is set to DBYES.

The unit for this parameter is tenths of seconds and can be changed in tenths of seconds increments.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glccctzero.values: */

Glccctzero is_in {0 thru 90};
```

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# Glccdalmthr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccdalmthr | LR | DMuns7 |

### 1.1 Glccdalmthr

Global Office Parameter Glccdalmthr

### 1.2 Description

BVA calling card software alarm threshold, which is a value for the successful query percentage. If the percentage falls below this threshold an alarm is activated.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 95

***CMP Initial Value:*** 95

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 95;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glccdalmthr.values: */

Glccdalmthr is_in {0 thru 100};
```

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# Glccdminqry

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccdminqry | LR | DMuns7 |

### 1.1 Glccdminqry

Global Office Parameter Glccdminqry

### 1.2 Description

BVA minimum calling card query attempts required in a quarter hour before calling card software alarm calculations will be performed.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 40

***CMP Initial Value:*** 40

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 40;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glccdminqry.values: */

Glccdminqry is_in {1 thru 64};
```

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# Glccdovldtm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccdovldtm | LR | DMuns4 |

### 1.1 Glccdovldtm

Global Office Parameter Glccdovldtm

### 1.2 Description

Calling card data base overload timing for cut back controls. This parameter indicates how long calling card query cutback controls will be in affect for any non-zero overload level received from the data base.

Glccdovldtm is specified in minutes.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 1

***CMP Initial Value:*** 1

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 1;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glccdovldtm.values: */

       /* no check */ ;
```

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# Glccdtime

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccdtime | LRFR | DMuns4 |

### 1.1 Glccdtime

Global Office Parameter Glccdtime

### 1.2 Description

BVA calling card query time parameter. Time allowed for a calling card query to respond with a reply. Glccdtime is specified in seconds.

This parameter indicates the longest period of time that call processing will wait for a calling card reply from the data base. A timeout will result in call processing continuing the call as indicated by the Glbllng_blck parameter. Since the level of query traffic that can be handled decreases as the holding time increases, extreme care should be used when increasing the value above the default value.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2

***AM Initial Value:*** 2

***CMP Initial Value:*** 2

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 2;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glccdtime.values: */

Glccdtime is_in {1 thru 8};
```

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# Glccif_on

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccif_on | FP | DMushort |

### 1.1 Glccif_on

Total MLHG Queue Cells on SM

### 1.2 Description

This parameter is spare.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Populate on all SMs */

for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then

begin

/* RULE about Glccif_on.values: */
Glccif_on is_in {0 thru 65535};
end
```

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# Glccifexcl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccifexcl | FP | DMushort |

### 1.1 Glccifexcl

Total trunk/SFG queue cells on SM

### 1.2 Description

This is a parameter spare.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Populate on all SMs */

for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then

begin

/* RULE about Glccifexcl.values: */
Glccifexcl is_in {0 thru 65535};
end
```

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# Glccifincl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccifincl | FP | DMchar4 |

### 1.1 Glccifincl

Credit Card Identification Forwarding INCLusive digits

### 1.2 Description

This global parameter is spare; the CCIF feature was cancelled.

***Type:*** DB4STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ---

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = "";
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parameters, so FP is specified */
/* here.  The group partitioning should be:               */
/*      RLdb_gpdus.grp_type = GPD_OSPS                    */
/*      RLdb_gpdus.grp_id   = 3                           */
pcrlist = get_gpd_pcrlist (GPD_OSPS,3);
```

***Import***
```
"PLgpd_defs.R"
```

***Checks:***

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# Glccifsc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccifsc | FP | DMchar4 |

### 1.1 Glccifsc

Credit Card Identification Forwarding Service Code

### 1.2 Description

This global parameter is spare; the CCIF feature was cancelled.

***Type:*** DB4STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ---

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = "";
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parameters, so FP is specified */
/* here.  The group partitioning should be:               */
/*      RLdb_gpdus.grp_type = GPD_OSPS                    */
/*      RLdb_gpdus.grp_id   = 3                           */

pcrlist = get_gpd_pcrlist (GPD_OSPS,3);
```

***Import***
```
"PLgpd_defs.R"
```

***Checks:***

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# Glccitt6sm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccitt6sm | LRFR | DMmodule |

### 1.1 Glccitt6sm

Global Office Parameter Glccitt6sm

### 1.2 Description

This parameter is the only indicator of which processor contains the direct interface with the ITU-TS (formerly CCITT) Signaling System 6 transport hardware for ITU-TS System 6 offices.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Note that no ITU-TS 6 signaling SM is supported, therefore Glccitt6sm should be populated with 0.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* Standard */
```

***Checks:***
```
/* Glccitt6sm should equal 0. */

BCccitt6sm:     Glccitt6sm == 0;
```

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# Glccncdoff

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccncdoff | FR | DMbool |

### 1.1 Glccncdoff

Global Office Parameter Glccncdoff

### 1.2 Description

This parameter indicates whether the NCD query for the calling card is turned off. This parameter can be set to DBYES (turn off NCD query) ONLY if Glcas_on is set to DBYES.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glccncdoff.values: */

       /* no check */ ;
```

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# Glccode

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccode | LRFR | DMhex16 |

### 1.1 Glccode

Country Code

### 1.2 Description

This global parameter is used to store the country code of the country in which the switch (exchange) resides. This parameter is populated for switches with GATEWAY application, ETSI ISDN feature and Wireless application.

For calls entering the gateway office and terminating in the country (the country in which the gateway resides), the country code field of the call accounting and traffic data record will be set equal to the parameter, Glccode.

```
RANGE: 0x000 to 0x999, inclusive


EXAMPLE: For Mondial Gateway, the country code is 44. Store

         as three hexadecimal characters with the rightmost

         twelve bits having the value 0000 0100 0100.


         Glccode must_equal 0x044;
```

***NOTE:*** This global parameter must be populated for all gateway offices.

This Glccode parameter is also used for ETSI ISDN validation of user provided calling and connected directory numbers. The user provided country code is checked against country code in Glccode.

Note that a country code may not have a leading digit of "0".

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

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***RC/ODA Rules:*** rc access = none

***NOTE:*** Glccode isn't supported, therefore Glccode should be populated with 0x0.

***Retrofit Rules:*** None.

***Default Rules:***

```
oda_default = 0x0;
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* Glccode should equal 0x0. */

Glccode == 0x0;
```

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# Glccs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccs | LRFR | DMplatform |

### 1.1 Fullname:

Global Office Parameter Glccs

### 1.2 Description:

This global parameter indicates what type of CCS transport platform is equipped in the office.

The CNI hardware ring can be used to transport CCS messages thru the AM.

A global SM can be used to transport CCS messages thru the PSU.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***TRIGGER:*** CCccstrig,

***SM Initial Value:*** CC_NOPLATFORM

***AM Initial Value:*** CC_NOPLATFORM

***CMP Initial Value:*** CC_NOPLATFORM

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** On retrofit to 5E11 Glccs should be updated as follows:

```
5E10            5E11
----            ----
DBNO            CC_NOPLATFORM
DBYES           CC_CNIPLATFORM
```

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Import:***

```
chk_apperm.R
```

***Checks:***

```
/* RULE about CCS permitted by office type */
if (c_aperm(PVOCCS,CONFIGMAX) == false) then
begin
```

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```
BCccs1: Glccs == CC_NOPLATFORM;
end

/* Check if CNI CCS transport is allowed. */
if (c_aperm(PVOSS7CNI,CONFIGMAX) == false) then
begin
BCccs2: Glccs is_in {CC_NOPLATFORM, CC_PSUPLATFORM};
end

/* Check if PSU CCS transport is allowed. */
if (c_aperm(PVOSS7PSU,CONFIGMAX) == false) then
begin
BCccs3: Glccs is_in {CC_NOPLATFORM, CC_CNIPLATFORM};
end

/* If Glccs indicates PSU CCS transport, then verify there is a global
 * SM in the office.
 */
if (Glccs is_in {CC_PSUPLATFORM, CC_ALLPLATFORM}) then
begin
BCccs4: find >= 1 gsm_opc in RLgsm_opc
        where (gsm_opc.gsm is_in {1 thru 192} &&
               gsm_opc.network == CCNATL);;
end
```

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# Glccs7sm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccs7sm | LRFR | DMmodule |

### 1.1 Glccs7sm

Global Office Parameter Glccs7sm

### 1.2 Description

This parameter indicates which processor contains the direct interface with the common channel signaling System 7 (CCS7) transport hardware for export common channel signaling 7 offices.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Note that no CCS7 signaling SM is supported, therefore Glccs7sm should be populated with 0.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* Standard */
```

***Checks:***
```
/* Glccs7sm should equal 0. */

BCccs7sm:       Glccs7sm == 0;
```

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# Glccs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccs | LRFR | DMplatform |

### 1.1 Glccs

Global Office Parameter Glccs

### 1.2 Description

This global parameter indicates what type of CCS transport platform is equipped in the office.

The CNI hardware ring can be used to transport CCS messages thru the AM.

A global SM can be used to transport CCS messages thru the PSU.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** CC_NOPLATFORM

***AM Initial Value:*** CC_NOPLATFORM

***CMP Initial Value:*** CC_NOPLATFORM

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** On retrofit to 5E11 Glccs should be updated as follows:

```
5E10            5E11
----            --------------
DBNO            CC_NOPLATFORM
DBYES           CC_CNIPLATFORM
```

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Import:***

```
chk_apperm.R
```

***Checks:***

```
/* RULE about CCS permitted by office type */
if (c_aperm(PVOCCS,CONFIGMAX) == false) then
begin
BCccs1: Glccs == CC_NOPLATFORM;
```

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```
end

/* Check if CNI CCS transport is allowed. */
if (c_aperm(PVOSS7CNI,CONFIGMAX) == false) then
begin
BCccs2: Glccs is_in {CC_NOPLATFORM, CC_PSUPLATFORM};
end

/* Check if PSU CCS transport is allowed. */
if (c_aperm(PVOSS7PSU,CONFIGMAX) == false) then
begin
BCccs3: Glccs is_in {CC_NOPLATFORM, CC_CNIPLATFORM};
end

/* If Glccs indicates PSU CCS transport, then verify there is a global
 * SM in the office.
 */
if (Glccs is_in {CC_PSUPLATFORM, CC_ALLPLATFORM}) then
begin
BCccs4: find >= 1 gsm_opc in RLgsm_opc
        where (gsm_opc.gsm is_in {1 thru 192} &&
               gsm_opc.network == CCNATL);;
end
```

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# Glccslab

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccslab | FP | DMhex16 |

### 1.1 Glccslab

Global Office Parameter Glccslab

### 1.2 Description

This global parameter indicates which PH channel groups are using CCS link (lab only) loop around code.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***TRIGGER*** CClabonly

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter should always be set to 0 thru ODA.

***Retrofit Rules:*** None.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for i in {1 thru 192}
        begin
                pcrlist[i] = true;
        end
```

***Checks:***

```
/* Glccslab should always be set to 0. */
if (current_pcr is_in sm_all) then
begin
        Glccslab == 0;
end
```

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# Glccsphs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccsphs | LP | DMushort |

### 1.1 Glccsphs

Global Office Parameter Glccsphs (CCS Protocol Handlers)

### 1.2 Description

The Glccsphs global parameter contains the number of CCS protocol handlers in the office. This global parameter is used by the measurements application.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** RC/V and ODA will update this global parameter if CCS protocol handlers are added or removed in the office. Hence, Glccsphs will always reflect the number of CCS protocol handlers in the office.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        pcrlist[193] = true;
```

***Checks:***
```
/* RULE about Glccsphs: */
function PHcnt() returning int
begin
        cnt=0;  /* no ph's have been found yet */
        for gsm_opc in RLgsm_opc on am
        begin
                for dslgdata in RLdslgdata on gsm_opc.gsm
                begin
                        if (dslgdata.dsltype == PS_MD ||
                            dslgdata.dsltype == PS_MDST7 ||
                            dslgdata.dsltype == PS_ST7) then
                        begin
```

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```
                                cnt = cnt + 1;
                        end
                end
        end
        return cnt;
end

Glccsphs on am == PHcnt();
```

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# Glccsstpdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccsstpdb | FP | DMushort |

### 1.1 Fullname:

Count of RLccsstpdb tuples present in an SM.

### 1.2 Description:

The Glccsstpdb global parameter contains an SM's current rlCCSSTPDB tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as trunks using CCS signaling are assigned. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glccsstpdb.values: */
if (current_pcr is_in sm_all) then
begin
        function func() returning int
        begin
                ov_300 = Glisuptk_cnt - 300;
                if (ov_300 < 0) then
                        ov_300 = 0;
                lt_300 = Glisuptk_cnt - ov_300 - 30;
                if (lt_300 < 0) then
                        lt_300 = 0;
```

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```
                ccsstpdb = 10 + ((lt_300 + 4) / 5) + ((ov_300 + 9) / 10);
                return ccsstpdb;
        end

/* Glccsstpdb is_in {0 thru (DBQNCCSSTP - DBSFCCSSTP)}; */
Glccsstpdb is_in {0 thru (4095 - 0)};

/* RULE about Glccsstpdb: */

if (Glisuptk_cnt == 0) then
begin
BCccsstpdb1:  Glccsstpdb == 0;
end
else
begin

        let CCSSTPDB = func();
/*      if (CCSSTPDB + Gliccsstpd <= (DBQNCCSSTP - DBSFCCSSTP)) then */
        if (CCSSTPDB + Gliccsstpd <= (4095 - 0)) then
        begin
BCccsstpdb2:    Glccsstpdb >= CCSSTPDB + Gliccsstpd;
        end
        else
        begin
        /*      Glccsstpdb == DBQNCCSSTP - DBSFCCSSTP;  */
BCccsstpdb3:    Glccsstpdb == 4095 - 0;
        end
end

end
```

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# Glccvact

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccvact | LPFP | DMbool |

### 1.1 Glccvact

Global Office Parameter Glccvact

### 1.2 Description

Call charge verification active. Activation parameter for CCV feature. True - feature 'Call Charge Verification' active. Glccvopt must be DBYES. False - feature 'Call Charge Verification' not active. DBNO for Netherlands, Colombia, Saudi Arabia. DBYES for most other countries(or non local). Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glccvact.values: */

       /* no check */ ;
```

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# Glccvopt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glccvopt | LR | DMbool |

### 1.1 Glccvopt

Global Office Parameter Glccvopt

### 1.2 Description

Call charge verification feature option. True - feature 'Call Charge Verification' present. False - feature 'Call Charge Verification' not present. Glccvact must be DBNO and not changeable. DBYES for Netherlands, Colombia, Saudi Arabia. DBNO for most other countries. Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glccvopt.values: */

        /* no check */ ;
```

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# Glcdbs_seq

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcdbs_seq | FP | DMbool |

### 1.1 Glcdbs_seq

Customer Defined Bill Segmentation Release 2 Sequence Dialing feature activation parameter

### 1.2 Description

This parameter shall be used to activate/deactivate the CDBS Sequence Dialing feature. DBYES indicates the feature is activated, allowing the caller to enter a new PIN on a calling card sequence call, eliminating the need to hang up and dial again. DBNO indicates the feature is not activated.

This feature will not be activated unless the global parameter CASR3 is turned on OR the LIDB CCD feature is activated. (Glcas3, Glqrccd)

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
/* This global is really group partitioned, but FG cannot */

/* be specified for global parameters, so FP is specified */

/* here. The group partitioning should be:                */

/*      RLdb_gpdus.grp_type = GPD_OSPS                    */

/*      RLdb_gpdus.grp_id = 3                             */

pcrlist = get_gpd_pcrlist (GPD_OSPS,3);
```

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***Import:***

```
"PLgpd_defs.R"
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glcdbs_seq.values: */

        /* no check */ ;

/* RULE about Glcdbs_seq: */
/* There shall be a crosscheck to ensure that Glcas3 is DBYES */
/* or LIDB CCD feature is active before this feature is activated. */
if (Glcdbs_seq == DBYES) then
begin
        Glcas3 == DBYES ||
            Glqrccd {0:3} != 0xa;
end

end
```

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# Glcdciccv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcdciccv | FP | DMbool |

### 1.1 Glcdciccv

ICCV Request for Call Duration and Charge Feature Activation Parameter

### 1.2 Description

This global is used to activate processing International Credit Card Validation (ICCV) Request for Call Duration and Charge (CDC) calls. ICCV CDC provides a call disposition message (CDM) containing call information to the card issuer. This parameter has the following meaning:

```
     if N, ICCV CDC processing is off;

     if Y, ICCV CDC processing is on.
```

```
Glcas3
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
/* This global is really group partitioned, but FG cannot */

/* be specified for global parameters, so FP is specified  */

/* here.  The group partitioning should be:               */

/*      RLdb_gpdus.grp_type = GPD_OSPS                    */

/*      RLdb_gpdus.grp_id   = 4                           */
```

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```
pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import***

```
"PLgpd_defs.R"
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glcdciccv.values: */

        /* no check */ ;

/* RULE about Glcdciccv: */
/* CAS R3 must be activated before ICCV CDC can be activated */
if (Glcdciccv == DBYES) then
begin
        Glcas3 == DBYES;   /* 9.1 */
end
end
```

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# Glcdplines

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcdplines | FP | DMushort |

### 1.1 Glcdplines

Lines with an Advanced Services Platform custom dialing plan

### 1.2 Description

The Glcdplines global parameter contains an SM's count of ASP custom dialing plan features assigned to lines and active in RLasp_port. Its value is maintained over all initializations and updated via trigger functions as custom dialing plan features are inserted or deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as custom dialing plan features are inserted or deleted.

Its value can increase and decrease.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glcdplines.values: */

Glcdplines is_in {0 thru 28800};
```

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```
end

/* RULE about Glcdplines: */
function func() returning int
begin
        cdplines = 0;
        for asp_port in RLasp_port
        where (asp_port.cdp_act == DBYES)
        begin
                find == 1 lpt_pt in RLlpt_pt
                where (lpt_pt.lport == asp_port.lport &&
                   lpt_pt.lpt_type == asp_port.lpt_type)
                when_found
                begin
                        if (count({ fc_porttyp in RLfc_porttyp
                            where ((fc_porttyp.port.member == lpt_pt.port &&
                                   fc_porttyp.port.module == current_pcr &&
                                   fc_porttyp.porttype == TM_LINE)) }) > 0)then
                        begin
                                cdplines = cdplines + 1;
                        end
                end
        end
        return cdplines;
end

if (current_pcr is_in sm_all) then
begin
        Glcdplines == func();
end
```

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# Glcdptrks

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcdptrks | FP | DMushort |

### 1.1 Glcdptrks

Trunks with an Advanced Services Platform custom dialing plan

### 1.2 Description

The Glcdptrks global parameter contains an SM's count of ASP custom dialing plan features assigned to trunks and active in RLasp_port. Its value is maintained over all initializations and updated via trigger functions as custom dialing plan features are inserted or deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as custom dialing plan features are inserted or deleted.

Its value can increase and decrease.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glcdptrks.values: */
Glcdptrks is_in {0 thru 24192};
end
```

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```
/* RULE about Glcdptrks: */
function func() returning int
begin
        cdptrks = 0;
        for asp_port in RLasp_port
        where (asp_port.cdp_act == DBYES)
        begin
                find == 1 lpt_pt in RLlpt_pt
                where (lpt_pt.lport == asp_port.lport &&
               lpt_pt.lpt_type == asp_port.lpt_type)
         when_found
         begin
                if (count({ fc_porttyp in RLfc_porttyp
                            where ((fc_porttyp.port.member == lpt_pt.port &&
                                    fc_porttyp.port.module == current_pcr &&
                                    fc_porttyp.porttype == TM_TRK)) }) > 0) then
                begin
                        cdptrks = cdptrks + 1;
                end
         end
        end
        return cdptrks;
end

if (current_pcr is_in sm_all) then
begin
        Glcdptrks == func();
end
```

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# Glcdractiv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcdractiv | FR | DMbool |

### 1.1 Fullname:

CDR Feature Activation Parameter

### 1.2 Description:

This parameter specifies whether the CDR feature should be turned on or not.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** /* if (SFID438 == DBYES) then SFID245 == DBYES */

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glcdractiv.values: */

        /* RTCD feature must be active for CDR to be active */
        if (Glcdractiv == DBYES) then
           (Glrtcd_ofc == DBYES);

        if (Glrtcd_ofc == DBNO) then
           (Glcdractiv == DBNO);

        /* CDR feature must be active for CDR AMA to be active */
        if (Glcdractiv == DBNO) then
           (Glamaactiv == DBNO);
```

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# Glcdtmfovr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcdtmfovr | FR | DMbool |

### 1.1 Fullname:

CDMA DTMF Override

### 1.2 Description:

This parameter is used for the CDMA DTMF Tone Generation Programmability application on the *5ESS*®-2000 switch. This parameter, if set to DBYES, will allow vendors to specify the DTMF on and off durations for CDMA calls.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter is supported by
RC and ODA. RC View 8.1, Office Parameters, will support this parameter.
The CDMA application must be activated prior to enabling DTMF tone duration override.

```
if (Glcdtmfovr == DBYES) then
begin
           SFID221 == DBYES;
end
```

***Retrofit Rules:*** The value of this parameter will be maintained in the next generic.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* No checks */
```

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# Glcf_carr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcf_carr | FP | DMbcarid |

### 1.1 Glcf_carr

Global Office Parameter Glcf_carr defines: "db/DMcarr_val.h"

### 1.2 Description

Specifies the conference field carrier identification number.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10000

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** On the RC/ODA form, #NULL_BCARID is mapped to unknown.

***Retrofit Rules:*** Unknown is mapped to #NULL_BCARID.

***Default Rules:***
```
default = $NULL_BCARID;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot */

/* be specified for global parameters, so FP is specified */

/* here.  The group partitioning should be:               */

/*      RLdb_gpdus.grp_type = GPD_OSPS                    */

/*      RLdb_gpdus.grp_id   = 1                           */

pcrlist = get_gpd_pcrlist (GPD_OSPS,1);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
if (current_pcr is_in sm_all) then
```

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```
begin
        /* RULE about Glcf_carr.values: */
        Glcf_carr is_in {0 thru $FGDMAXBCAR, $NULL_BCARID};

        /* RULE about Glcf_carr: */
        if (Glcf_carr != $NULL_BCARID) then
        begin
                let str() = itoa(Glcf_carr);
                let len() = 4 - length(str());
                let carr() = (len() == 0) ? str() :
                                strcat(substr("0000", 0, len()), str());

                find == 1 fc_carr in RLfc_carr
                where (fc_carr.carrid == carr());   /* 9.1 */
        end
end
```

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# Glcf_mx

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcf_mx | FR | DMuchar |

### 1.1 Glcf_mx

Global Office Parameter Glcf_mx

### 1.2 Description

This parameter specifies the maximum number of call forwardings as an action of SCA/CAR, or SCF.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 5

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 5;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcf_mx.values: */

Glcf_mx is_in {1 thru 32};
```

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# Glcfdacnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcfdacnt | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter call forwarding dont answer count

### 1.2 Description:

This global parameter defines the sum of all call forwarding do notanswer RLCF_LTM tuples in SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ODA only: This parameter is incremented and decremented via trigger FCtrcfltm() as "CFDA" RLcf_ltm tuples are inserted and deleted, respectively.

***Retrofit Rules:*** The value should be the number of RLcf_ltm tuples in SM with dont_ans_t > 0.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glcfdacnt: */

/* runslow added due to linear search of CF_LTM and excessive cpu usage */
if (runslow) then
begin

if (current_pcr is_in sm_all) then
begin
        let tuplecount = count {cf_ltm in RLcf_ltm on current_pcr
```

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```
                where (cf_ltm.dont_ans_t > 0)};

        tuplecount == Glcfdacnt;
        tuplecount <= 28800;
end
end
```

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# Glcflnti

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcflnti | FP | DMshort |

### 1.1 Glcflnti

Global Office Parameter Glcflnti

### 1.2 Description

The Glcflnti global parameter is defined to be an incremental or decremental value used to increase or decrease the number of RLcflntrm tuples allocated in the SM during initialization or RLcf_ltm triggers. A negative value only affects full and selective initializations. Its value is established via ODA or RC/V and is maintained over retrofits.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** A RC/V view (SREINCR) and ODA form (SREINCR) per-SM field is required and the value can not be increased by more than 50 during each update.

***Retrofit Rules:*** This parameter value is preserved over a retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glcflnti: */
for pcr in sm_all
begin
        for modatt in RLmodatt
        where (modatt.module == pcr)
                if (modatt.unittype == SMSM2000 ) then
                begin
```

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```
                        Glcflnti on pcr is_in {-100 thru 1000};
                end
                else
                begin
                        Glcflnti on pcr is_in {-100 thru 200};
                end
end
```

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# Glcflntrm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcflntrm | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glcflntrm

### 1.2 Description:

The Glcflntrm global parameter is defined to equal the number of RLcflntrm tuples allocated in the SM. Its value wil be established during full and selective initialization. It will be updated as tuples are added via triggers.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ODA ONLY The following algorithm to populate this parameter is based on each DN with CFDA assigned handling 4 calls per hour with an average CFDA timeout or resource holding time of 18 seconds. If there are no CFDA features assigned, a lower limit is set at 10 to handle CFPF forwardings, which also use the RLCFLNTRM relation (approximately 1 to 2 second holding time).

```
if ( Glcfdacnt == 0 )
        num_tup = 10 + Glcflnti;
else
        median = ( ( 144L * Glcfdacnt ) + 3599L ) / 3600L;
        standard_deviation = approximated square root of
        median where all median values < 26 result in
          a value of 5;
        num_tup = median + (5 * standard_deviation) + Glcflnti;
 if ( num_tup <= 0 )
        num_tup = 10;
if ( num_tup >= DBQNCFLNTR )
        num_tup = DBQNCFLNTR - 1;
Glcflntrm = num_tup;
```

***Retrofit Rules:*** The value is NOT preserved over a retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

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```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***

```
sqrt.R
"env.R
```

***Checks:***

```
/* RULE about Glcflntrm: */

function func() returning int
begin
        num_tup = 0;

        if ( Glcfdacnt == 0 )
        then
                num_tup = 10 + Glcflnti;

        else
        begin
               /* added 3599 to round up.  */
               mu = (144 * Glcfdacnt + 3599) / 3600;

               /* standard_deviation = approximated square   */
               /* root of median where all median values < 26 */
               /* result ina value of 5;  */
               sigma = 5;

               if (mu >= 26)
               then
                         sigma = sqrt(mu);

               num_tup = mu + (5 * sigma) + Glcflnti;
        end

        if ( num_tup <= 0 )
        then
               num_tup = 10;

        /* if ( num_tup >= DBQNCFLNTR ) */
        if ( num_tup >= 2000 )
        then
               /* num_tup = DBQNCFLNTR - 1; */
               num_tup = 2000 - 1;

        return num_tup;
end

if (current_pcr is_in sm_all) then
begin
        Glcflntrm is_in {0 thru 2000};
        if (runucv) then
        Glcflntrm == func();
end
```

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# Glcfltmcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcfltmcnt | FP | DMulong |

### 1.1 Fullname:

Global Office Parameter Glcfltmcnt

### 1.2 Description:

Sum of all RLCF_LTM tuples in SM Glcfltmcnt is incremented and decremented via trigger as RLcf_ltm tuples are inserted and deleted, respectively.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ODA only: The value should be the number of RLcf_ltm tuples in SM.

***Retrofit Rules:*** The value should be the number of RLcf_ltm tuples in SM.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glcfltmcnt: */

if (current_pcr is_in sm_all) then
begin
/* runslow added due to linear search of CF_LTM and excessive cpu usage */
        if (runslow) then
        begin

        let tuplecount = count{cf_ltm in RLcf_ltm on current_pcr};
```

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```
        tuplecount == Glcfltmcnt;
        tuplecount <= 86400;
        end

        for modatt in RLmodatt
        where (modatt.module == current_pcr)
                if (modatt.unittype is_in {SMSM2000, SMSM2005} ) then
                begin
                        Glcfltmcnt is_in {0 thru 86400};
                end
                else
                begin
                        Glcfltmcnt is_in {0 thru 10000};
                end
end
```

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# Glcfr_dn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcfr_dn | FP | DMdn |

### 1.1 Glcfr_dn

Global Office Parameter Glcfr_dn

### 1.2 Description

This parameter is used in one of two ways. The first use is as the preselect (default) directory number for external conferencing via the conference connection. The other possible use is as the pseudo ANI digits that are outpulsed when feature group D signaling is used. The choice of these two usages is dependent upon the keying sequence used by the OSPS operator. The value for this parameter is a 10 digit [0-9] number (not restricted to directory number format) or 0 if no external conferencing or ANI digits for feature group D signaling are used. Since this is a DMdn, both fields of it must be set. The array dn of this DMdn should be set to the desired digits, while the digcnt field of the DMdn should be set to the number of digits in the dn field. The digcnt should be 10 for a 10 digit number or 0 for no number.

***Type:*** DBDN_PAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** {0,""}

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default.digcnt = 0;

default.dn = "";
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glcfr_dn.values: */

        /* no check */ ;
```

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# Glcfscop

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| fullname: | FP | DMushort |

### 1.1 Fullname:

### 1.2 Description:

The Glcfscop global parameter is defined to equal the number of RLcfscop tuples allocated in the SM. Its value will be established during full and selective initialization. It will be updated as tuples are added to RLcfscop via triggers.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***

```
ODA ONLY:
The algorithm to populate this parameter is as follows:
if ( Glcfltmcnt <= 0 )
        num_tup = 100 + Glcfscpi;
else if ( Glcfltmcnt <= 150 )
        num_tup = 150 + Glcfscpi;
else if ( Glcfltmcnt < ( ( AVHALFCALL + 1 ) / 2 ) )
        num_tup = Glcfltmcnt + Glcfscpi;
else    num_tup = ( ( AVHALFCALL + 1 ) / 2 ) + Glcfscpi;
/* Always allocate a "safe" minimum number of tuples */
if ( num_tup <= 0 )
        num_tup = 100;
if ( num_tup >= DBQNCFSCOP )
        num_tup = DBQNCFSCOP - 1;
Glcfscop = num_tup;
```

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt
```

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```
        pcrlist[modatt.module] = true;
```

***Import:***

```
env.R
```

***Checks:***

```
/* RULE about Glcfscop: */

function func() returning int
begin
        AVHALFCALL = 0;
        num_tup = 0;
        find == 1 modatt in RLmodatt
        where (modatt.module == current_pcr)
        when_found
        begin
                if (modatt.unittype is_in {SMSM2000, SMSM2005}) then
                        AVHALFCALL = 24192;
                else
                        AVHALFCALL = 509;
        end

        if ( Glcfltmcnt <= 0 )
        then
                num_tup = 100 + Glcfscpi;

        else if ( Glcfltmcnt <= 150 )
        then
                num_tup = 150 + Glcfscpi;

        else if ( Glcfltmcnt < ((AVHALFCALL + 1) / 2) )
        then
                num_tup = Glcfltmcnt + Glcfscpi;

        else
                /* Round up?  */
                /* num_tup = (AVHALFCALL / 2) + Glcfscpi;  */
                num_tup = ((AVHALFCALL + 1) / 2) + Glcfscpi;

        /* Always allocate a "safe" minimum number of tuples  */

        if ( num_tup <= 0 )
        then
                num_tup = 100;

        /* else if ( num_tup >= DBQNCFSCOP ) */
        else if ( num_tup >= 8192 )
        then
                /* num_tup = DBQNCFSCOP - 1; */
                num_tup = 8192 - 1;

        return num_tup;
end
```

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```
if (current_pcr is_in sm_all) then
begin
        Glcfscop is_in {0 thru 8192};
        if (runucv) then
        Glcfscop == func();
end
```

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# Glcfscpi

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcfscpi | FP | DMshort |

### 1.1 Glcfscpi

Global Office Parameter Glcfscpi

### 1.2 Description

The Glcfscpi global parameter is defined to be an incremental or decremental value used to increase or decrease the number of RLcfscop tuples allocated in the SM during initialization or RLcf_ltm triggers. A negative value only affects full and selective initializations. Its value is established via ODA or RC/V and is maintained over retrofits.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***TRIGGER:*** FCtrcfscpi

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** A RC/V view (SREINCR) and ODA form (SREINCR) per-SM field is required and the value can not be increased by more than 50 during an update.

***Retrofit Rules:*** The value of this parameter is preserved over a retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glcfscpi: */
for pcr in sm_all
begin
        for modatt in RLmodatt
        where (modatt.module == pcr)
```

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```
                if (modatt.unittype == SMSM2000 ) then
                begin
                        Glcfscpi on pcr is_in {-100 thru 8191};
                end
                else
                begin
                        Glcfscpi on pcr is_in {-100 thru 250};
                end
end
```

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# Glcgmsdpc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcgmsdpc | FP | DMshort |

### 1.1 Glcgmsdpc

Global Office Parameter Glcgmsdpc

### 1.2 Description

This parameter is only used by the national version of TSS 7. This parameter holds the number of messages to be received from an OPC for a congested DPC before sending the OPC a transfer controlled message.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 8

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** None.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 8;
```

***Distribution Rules:***
```
for i in {1 thru 192}
begin
      if (Glnatl7sm on sm(i) != 0) then
      begin
             pcrlist[Glnatl7sm] = true;
      end
end
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
        /* range check */
        Glcgmsdpc is_in {6 thru 10};
end
```

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# Glchatr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glchatr | FP | DMshort |

### 1.1 Glchatr

Global office parameter Glchatr

### 1.2 Description

Number of transitions in Glchatt amount of time which designates chattering on an MSU scan point.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 4;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glchatr.values: */

Glchatr is_in {0 thru 60};
end
```

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# Glchatt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glchatt | FP | DMshort |

### 1.1 Glchatt

Global Office Parameter Glchatt

### 1.2 Description

Number of seconds in sampling time period used for chattering controls on MMSU scan points by the general MSU alarm process.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 1;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glchatt.values: */

if (current_pcr is_in { 1 thru 192 }) then
begin
        Glchatt is_in {1 thru 10};
end
```

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# Glchhpbd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glchhpbd | LPFP | DMblockid |

### 1.1 Glchhpbd

Global Office Parameter Glchhpbd

### 1.2 Description

This global office parameter will store the blockid of a head page which contains the blockids of URAM pages which contain cache blocks used to support the DB tuple cache. It will be set by DB initialization and audited by the DB memory manager audit. ODA and DBGEN should not populate this parameter. The value is not preserved for retrofits.

```
SUPPORTED BY:  DB

RECENT CHANGE DEFAULT:  N/A

ODA DEFAULT:  N/A
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glchhpbd.values: */

       /* no check */ ;
```

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# Glchlnkcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glchlnkcnt | LP | DMuchar |

### 1.1 Glchlnkcnt

Channel count

### 1.2 Description

This parameter represents the count of channels assigned on PSU links per office.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable.

***Retrofit Rules:*** not applicable.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */

;
```

***Checks:***
```
/* construct a set of operational PHA SMs */

let modules = { pcr in sm_all
                where(Glpha on pcr > 0) };

Glchlnkcnt on am == count { cktlnk in RLcktlnk on modules };
```

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# Glcicp_blk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcicp_blk | FR | DMbool |

### 1.1 Glcicp_blk

Carrier Identification Code Parameter block

### 1.2 Description

This global parameter will be used to control whether the ISUP carrier identification code parameter (CICP) is included in an IAM message at an access tandem switch which was arrived at via inband signaling. If the parameter is set to DBNO, CICP will be included in the outgoing IAM. If the parameter is set to DBYES, CICP will not be included in the outgoing IAM. This parameter can only be set to DBYES if CICP feature has been purchased (SFID009 is set to DBYES).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter is populated by Recent Change.

***Retrofit Rules:*** The global parameter is being added in 5E9(2) for carrier identification code parameter (CICP) Special Feature. In a 5E9(1) to 5E9(2) retrofit or a 5E9(1) to 5E10 retrofit skip, the value of Glsf11dumm in 5E9(1) should be copied into the new global parameter Glcicp_blk in 5E9(2) or 5E10 to maintain the value for CICP special feature. The dummy parameter Glsf11dumm should be restored with default value of DBNO in 5E9(2) or 5E10.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcicp_blk.values: */

       Glcicp_blk is_in {DBNO, DBYES};
```

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# Glciidcd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glciidcd | LRFR | DMbool |

### 1.1 Glciidcd

Include Called Number in LIDB TCAP Query feature activation bit

### 1.2 Description

This parameter is used by an OSPS Special Feature which, when activated, will put the called number into the LIDB TCAP query (if this type of query is used to validate the calling card for the call).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** On a retrofit from a 5E6 office, map Gloff1 (bit 0) for 5E6 into Glciidcd.

```
BIT 0 of Gloff1          Glciidcd
---------------          --------
0                -->     DBNO
1                -->     DBYES
```

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glciidcd.values: */

       /* no check */ ;
```

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# Glcindx7

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcindx7 | LPFP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glcindx7 - total number of rlCINDX7 tuples

### 1.2 Description:

The Glcindx7 global parameter contains an AM or SM's count of rlCINDX7 tuples. Its value is maintained over all initializations and updated as rlCINDX7 tuples are inserted.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA ONLY This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as rlCINDX7 tuples are inserted. This is the "Total" global parameter used by the SRE functionality. Its value can only increase.
The following algorithm is used to calculate Glentry7:

```
in AM and SM-2000:
       Glcindx7 must be between 0 and 1600
       Glcindx7 must be 0 if Glentry7 is 0
       Glcindx7 must be 40 if Glicindx7 + (2 * Glpci7lab) +
               ((Glentry7 + 49)/50) is > 0 and < 40 Glcindx7
                 must be 1600 if Glicindx7 + (2 * Glpci7lab) +
                 ((Glentry7 + 49)/50) is > 1600 otherwise
                   Glcindx7 is Glicindx7 + (2 * Glpci7lab) +
                   ((Glentry7 + 49)/50)
in an SM:
        Glcindx7 must be between 0 and 1600
        Glcindx7 must be 0 if Glentry7 is 0
        Glcindx7 must be 40 if Glicindx7 + (2 * Glpci7lab) +
                ((Glentry7 + 49)/50) is > 0 and < 40 Glcindx7
                  must be Glpci7lab + 80 if Glicindx7 +
                  (2 * Glpci7lab) + ((Glentry7 + 49)/50) is >
                  ( Glpci7lab + 80 )
       otherwise
       Glcindx7 is Glicindx7 + (2 * Glpci7lab) +
```

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```
                ((Glentry7 + 49)/50)
end SM
```

Note that in this PRL file we use the idiom "((Glentry7 + 49)/50)", but in the corresponding TMCALC_CINDX7() macro, which is used by triggers, we use the idiom "(((Tentry7) + 50)/50))". The reason for this is because the TMCALC_CINDX7() macro is processed by the C compiler which does integer division (truncates) because all of the expression arguments are integer, whereas the PRL compiler does floating point division (rounds). Until the PRL compiler is corrected, we must modify the PRL source file in this manner in order to make the C compiler and PRL compiler output match.

***Retrofit Rules:*** The value of this parameter should be recalculated during a generic retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        ;
```

***Import:***

```
env.R
```

***Checks:***

```
/* RULE about Glcindx7: */
Glcindx7 on am is_in {0 thru 1600};

if (current_pcr is_in sm_all) then
begin
        Glcindx7 is_in {0 thru 1600};
end

if (runucv) then
begin

if ( Glentry7 == 0 ) then
begin
        Glcindx7 == 0;
end
else
begin
        if (current_pcr is_in sm_all) then
        begin
                find == 1 modatt in RLmodatt
                where (modatt.module == current_pcr)
                when_found
                begin
                        let x = Glicindx7 + (2 * Glpci7lab) +
                           ((Glentry7+49)/50);

                        if (modatt.unittype is_in {SMSM2000,
                            SMSM2005}) then
                        begin
                                Glcindx7 is_in {0 thru 1600};
                                if (x > 1600) then
                                begin
                                        Glcindx7 == 1600;
```

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```
                        end
                        else
                        begin
                                if ( x <= 40 ) then
                                begin
                                        Glcindx7 == 40;
                                end
                                else
                                begin
                                        Glcindx7 == x;
                                end
                        end
                end /* if SM-2000 */
                else /* this is an SM */
                begin
                        Glcindx7 is_in {0 thru 1600};
                        if (x > (Glpci7lab + 80) ) then
                        begin
                             Glcindx7 == Glpci7lab + 80;
                        end
                        else
                        begin
                             if ( x <= 40 ) then
                             begin
                                     if (runucv) then
                                     Glcindx7 == 40;
                             end
                             else
                             begin
                                     if (runucv) then
                                     Glcindx7 == x;
                             end
                        end
                end /* if an SM */
        end /* find */
end /* is SM */
else
begin
        for modatt in RLmodatt
        where (modatt.module == am)
        begin
                let x = Glicindx7 + (2 * Glpci7lab) +
                                    ((Glentry7+49)/50);

                Glcindx7 is_in {0 thru 1600};
                if (x > 1600) then
                begin
                        Glcindx7 == 1600;
                end
                else
                begin
                        if ( x <= 40 ) then
                        begin
                                if (runucv) then
```

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```
                                        Glcindx7 == 40;
                                end
                                else
                                begin
                                        Glcindx7 == x;
                                end
                        end
                end /* for */
        end /* else AM */
end /* else Glentry7 != 0 */
end
```

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# Glcktqry

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcktqry | LP | DMbool |

### 1.1 Glcktqry

Global Office Parameter Glcktqry

### 1.2 Description

This parameter specifies whether the Circuit Group Query features are activated.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ---

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** This parameter is NOT recent changeable.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
oda_default = DBYES;
```

***Distribution Rules:***
```
        pcrlist[am] = true;
```

***Checks:***
```
        /* none */
```

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# Glcl_offset

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcl_offset | FP | DMuns4 |

### 1.1 Glcl_offset

Global Office Parameter Glcl_offset

### 1.2 Description

Gives the cluster offset for each member of a remote cluster, indicating the relative position within the cluster. For MMRSMs this parameter gives the relative RSM number (1-4) within the MMRSM of the RSM that the parameter is populated in. For ORMs and TRMs, this parameter is always set to 1. This number must agree with:

(1) The 'cl_offset' attribute in the AM relation RLMODATT for the tuple whose key is the module number of the ORM/TRM/RSM this parameter is populated on.

(2) The 'cl_offset' attribute in the SM relation RLMATATT for each tuple corresponding to this RSM.

(3) The XX part of the corresponding rmXX attribute (actually one of rm01 - rm10) of the AM relation RLCLIDAT for the tuple corresponding to the cluster this module is in. The key to the CLIDAT tuple is the same as the 'clid' attribute of the MODATT tuple discussed in (1) above. The correct rmXX attribute (from which the XX = 'cl_offset' comes from) is the one which has as its value the SM number of the ORM/TRM/RSM this parameter is populated on.

RLMODATT defines the population rules for initially determining the cl_offset number. All other instances of this attribute are then determined from the RLMODATT entry. This number can be from one to four for RSMs and always one in ORMs and TRMs. For all other module types, the null value of zero is populated.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
```

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```
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glcl_offset.values: */

       /* no check */ ;
```

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# Glcldbnum

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcldbnum | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glcldbnum

### 1.2 Description:

The Glcldbnum global parameter contains an SM's current rlCLDB tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***NOTE:*** The algorithm in this file must be the same as the algorithm in fc/FCtrigint/FCcldbcnt.c which is the init code for Glcldbnum. So if the algorithm in this file changes verify that it is consistent with the init code algorithm.

ODA has agreed to make the calculation changes in 5e10 even though the changes were made to this file in 5e11.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as analog, coin, or ISDN lines are assigned, features are assigned or DNs shared. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
"env.R
```

***Checks:***
```
/* RULE about Glcldbnum.values: */
```

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```
if (current_pcr is_in sm_all) then
begin
        Glcldbnum is_in {0 thru (30720 - 2)};

function func() returning int
begin
        mu = ((Glsdnnum + Gllsdnnum + 2)/3) + ((Glltsbnum + 4)/5);

        sigma = sqrt(mu);

        cldbnum = (4 * (mu + (5 * sigma)));

        mu = ( ( 4 * 180
                    * ( Glfexrafs + Glmaxterm + Glcoincnt
                        + Glabrcscnt - Glacdp_cnt )
               ) + 3599
             ) / 3600;

        if ( mu < 0 )
        then
        begin
                mu = 0;
        end

        sigma = sqrt(mu);

        cldbnum = cldbnum + ((3 * (mu + (5 * sigma)))/2) + Glicldb;

        mu = ((Gltrkcnt + 9)/ 10);

        sigma = sqrt(mu);

        cldbnum = cldbnum + Glbchncnt + Glacdp_cnt + mu +
                                                (5 * sigma);

        return cldbnum;
end
if (runucv) then
begin
        let CLDBNUM = func();

/*      if (CLDBNUM + Glicldb <= (DBQNCLDB - DBSFCLDB)) then  */
        if (CLDBNUM + Glicldb <= (30720 - 2)) then
        begin
                Glcldbnum >= CLDBNUM + Glicldb;
        end
        else
        begin
        /*      Glcldbnum == DBQNCLDB - DBSFCLDB;       */
                Glcldbnum == 30720 - 2;
        end

/*      Glcldbnum is_in {0 thru (DBQNCLDB - DBSFCLDB)}; */
```

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```
        Glcldbnum is_in {0 thru (30720 - 2)};

end

end
```

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# Glcldwi

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcldwi | FP | DMuns7 |

### 1.1 Fullname:

Global Office Parameter Glcldwi

### 1.2 Description:

This global parameter is associated with the AT&T Customer Account Services (CAS) card limits features and International Credit Card Validation (ICCV) Purchase Limits (PL) features. It specifies the Card Limit Disconnect Warning Interval (CL DWI) in seconds, which is the amount of time after a Card Limits Disconnect Warning Announcement (CL DWA) is played before the call will be forcibly disconnected. Gl_pcrid

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is to be no_change on the RC/ODA RC_OSPARM and OSPARM forms. It is set when RLannc_hr.hdr_id 171 is populated.

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 30;
```

***Distribution Rules:***
```
        /* This global is really group partitioned, but FG
        /* can not be specified for global parameters, so FP
        /* is specified here.  The group partitioning should be:
        /*      RLdb_gpdus.grp_type = GPD_OSPS
        /*      RLdb_gpdus.grp_id   = 4
        pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
env.R,
PLgpd_defs.R
```

***Checks:***
```
/* RULE about Glcldwi.values: */
```

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```
if (current_pcr is_in sm_all) then
begin
Glcldwi is_in {0, 10 thru 90 by 5};

/* RULE about Glcldwi: */
begin
let bool = (count { db_gpdus in RLdb_gpdus
where (db_gpdus.grp_type == GPD_OSPS &&
    db_gpdus.grp_id == 4 &&
    db_gpdus.module == current_pcr)} == 1);
if (bool == false) then
begin
        if (runucv) then
        Glcldwi == 0;
end
else
begin
        Glcldwi != 0;
end
end
end
```

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# Glcldwibuf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcldwibuf | FP | DMuns7 |

### 1.1 Fullname:

Global Office Parameter Glcldwibuf

### 1.2 Description:

This parameter is associated with the AT&T Customer Accounts Service (CAS) card limits features and International Credit Card Validation (ICCV). It provides a 'courtesy interval' to the customer by specifying a desired (though not guaranteed) minimum amount of time a customer may talk before hearing a Card Limits Disconnect Warning Announcement (CL DWA). If the maximum allowed length of the call is so short that the caller would hear the CL DWA before having talked for the 'courtesy interval' time, then for this call the OSPS will use the minimum possible value of the Disconnect Warning Interval (DWI) of 10 seconds instead of the value specified by Glcldwi. Gl_pcrid

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This value should not be 0 if this parameter is populated on an SM with data of grp_type = GPD_OSPS and grp_id of 4. Valid values would be 8 thru 99. If the SM does not have this type data, the value should be 0.

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***

```
default = 12;
```

***Distribution Rules:***

```
        /* This global is really group partitioned, but FG
        /* can not be specified for global parameters, so FP
        /* is specified here.  The group partitioning should be:
        /*      RLdb_gpdus.grp_type = GPD_OSPS
        /*      RLdb_gpdus.grp_id   = 4
        pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***

```
env.R,
PLgpd_defs.R
```

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***Checks:***

```
/* RULE about Glcldwibuf.values: */

if (current_pcr is_in sm_all) then
begin
Glcldwibuf is_in {0, 8 thru 99};

/* RULE about Glcldwibuf: */
begin
let bool = (count { db_gpdus in RLdb_gpdus
where (db_gpdus.grp_type == GPD_OSPS &&
    db_gpdus.grp_id == 4 &&
    db_gpdus.module == current_pcr)} == 1);
if (bool == false) then
begin
        if (runucv) then
        Glcldwibuf == 0;
end
else
begin
        Glcldwibuf != 0;
end
end
end
```

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# Glcldwibuf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcldwibuf | FP | DMuns7 |

### 1.1 Fullname:

Global Office Parameter Glcldwibuf

### 1.2 Description:

This parameter is associated with the AT&T Customer Accounts Service (CAS) card limits features and International Credit Card Validation (ICCV). It provides a 'courtesy interval' to the customer by specifying a desired (though not guaranteed) minimum amount of time a customer may talk before hearing a Card Limits Disconnect Warning Announcement (CL DWA). If the maximum allowed length of the call is so short that the caller would hear the CL DWA before having talked for the 'courtesy interval' time, then for this call the OSPS will use the minimum possible value of the Disconnect Warning Interval (DWI) of 10 seconds instead of the value specified by Glcldwi. Gl_pcrid

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** 0 is not allowed on the RC/ODA form.

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 12;
```

***Distribution Rules:***

```
        /* This global is really group partitioned, but FG cannot */
        /* be specified for global parameters, so FP is specified */
        /* here.  The group partitioning should be:               */
        /*      RLdb_gpdus.grp_type = GPD_OSPS                   */
        /*      RLdb_gpdus.grp_id   = 4                          */
        pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***

```
env.R,
PLgpd_defs.R
```

***Checks:***

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```
/* RULE about Glcldwibuf.values: */

if (current_pcr is_in sm_all) then
begin
Glcldwibuf is_in {0, 8 thru 99};

/* RULE about Glcldwibuf: */
begin
let bool = (count { db_gpdus in RLdb_gpdus
where (db_gpdus.grp_type == GPD_OSPS &&
    db_gpdus.grp_id == 4 &&
    db_gpdus.module == current_pcr)} == 1);
if (bool == false) then
begin
        if (runucv) then
        Glcldwibuf == 0;
end
else
begin
/* Zero is not allowed on the RC/ODA form. */
ORgl_1: Glcldwibuf != 0;
end
end
end
```

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# Glclftim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glclftim | FR | DMshort |

### 1.1 Glclftim

Global Office Parameter Glclftim

### 1.2 Description

Glclftim, specified in seconds, is the timer set while waiting for the CCS Clear Forward message after sending a backward fail message.

The value should be the same in every SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA should populate with default value for new offices.

***Retrofit Rules:*** ODA should preserve value from data base during retrofits and growths.

***Default Rules:***

```
default = 10;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glclftim.values: */

Glclftim is_in {4 thru 15};
```

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# Glclid

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glclid | FP | DMcluster |

### 1.1 Glclid

Global Office Parameter Glclid

### 1.2 Description

Contains cluster identifier for remote modules: ORMs, TRMs, and RSMs. Should be set differently for each processor (module). The cluster number must be the same as the 'cluster' attribute of RLMODATT in the AM. Modules which are not ORMs, TRMs, or RSMs should have Glclid=0.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glclid.values: */

       /* no check */ ;
```

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# Glclid_o

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glclid_o | FP | DMcluster |

### 1.1 Glclid_o

Global Office Parameter Glclid_o

### 1.2 Description

This parameter is the communication module conversion indicator. It indicates whether or not conversion is in progress.

Conversion may be the CM1 to CM2 conversion, CM2 single to dual fabric conversion, VCDX to AM/CM2 conversion, or CDX to CM2 conversion.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** This global parameter has distribution type "LRFP", but only the AM/CMP portion of this parameter will be updatable by RC/V.The SM portions of this parameter will need to be handled by ODBE. As of 5E9.2, the only user of this parameter is the CM single to dual fabric conversion uses ODBE to explicitly update this parameter.

In 5E11, additional users of this parameter are the VCDX to AM/CM2 conversion and the CDX to CM2 conversion. ODBE will be used to update this paramter.

***Retrofit Rules:*** not applicable

***Default Rules:*** Default = DBNO

***Distribution Rules:***

```
;
```

***Checks:***

```
/* RULE about Glcmconv.values: */

       Glcmconv is _in {DBNO, DBYES};
```

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# Glcllqdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcllqdb | LRFR | DMushort |

### 1.1 Glcllqdb

Count of the total number of initialized ACD/BRCS Call Queue Data Block (rlCLLQDB) tuples

### 1.2 Description

This global parameter contains a count of the total number of initialized ACD/BRCS Call Queue Data Block tuples. It is initialized by the rlCLLQDB initialization function to equal the actual number of tuples in rlCLLQDB. If the rlCLLQDB initialization succeeds then Glcllqdb will be set to the value of the Glcqmcs Global Parameter. In case of an initialization failure, Glcllqdb will reflect the actual number of rlCLLQDB tuples successfully initialized.

The rlCQPARM trigger function will increase the value of Glcllqdb as additional rlCLLQDB tuples are inserted in response to increases in the value of Glcqmcs. The rlCQPARM trigger function will insert rlCLLQDB tuples and correspondingly increase Glcllqdb such that Glcllqdb is not less than the value of Glcqmcs. Glcllqdb is specified in decimal.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by ODA but the value does NOT appear on any ODA form. It is initialized by ODA to equal the value of the Glcqmcs Global Parameter. The Logical Processor from which to obtain the value of Glcqmcs is identified by the Glpacdbrcs Global Parameter.This parameter is supported in verify only mode by RC.

***Retrofit Rules:***
```
/* See evolution rules in Glcllqdb.V */
```

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glcllqdb.values: */
```

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```
Glcllqdb is_in {0 thru 40000};

/* RULE about Glcllqdb: */

Glcllqdb >= Glcqmcs on cmp;
```

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# Glclmrt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glclmrt | FP | DMuns9 |

### 1.1 Fullname:

Global Office Parameter Glclmrt

### 1.2 Description:

This global parameter is associated with the AT&T Customer Accounts Services (CAS) feature Enhanced Limits. It specifies the Card Limit Minimum Re-query Time (CL MRT) in seconds, which is the minimum required time between subsequent requests to the card database for additional balance. If a call does not have enough balance left to last through the duration of the MRT before it must request more balance again, then it will be disconnected after consumption of the currently available balance, without requesting more balance. Gl_pcrid

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This value should not be 0 if this parameter is populated on an SM with data of grp_type = GPD_OSPS and grp_id of 4. Valid values would be 30 thru 360. If the SM does not have this type data, the value should be 0.

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***

```
default = 120;
```

***Distribution Rules:***

```
        /* This global is really group partitioned, but FG
        /* can not be specified for global parameters, so FP
        /* is specified here.  The group partitioning should be:
        /*      RLdb_gpdus.grp_type = GPD_OSPS
        /*      RLdb_gpdus.grp_id   = 4
        pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***

```
env.R,
PLgpd_defs.R
```

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***Checks:***

```
/* RULE about Glclmrt.values: */

if (current_pcr is_in sm_all) then
begin
Glclmrt is_in {0, 30 thru 360};

/* RULE about Glclmrt: */
begin
let bool = (count { db_gpdus in RLdb_gpdus
where (db_gpdus.grp_type == GPD_OSPS &&
    db_gpdus.grp_id == 4 &&
    db_gpdus.module == current_pcr)} == 1);
if (bool == false) then
begin
        if (runucv) then
        Glclmrt == 0;
end
else
begin
        Glclmrt != 0;

/* Glplitim minus Glclmrt must be greater than or equal to
/* the sum of(2 * Glratetime) + the maximum value of
/* qtimeout across all tuples in RLcrd_attr + 1.  This
/* check is hard-coded here to match current maximum values
/* for Glratetime and qtimeout because they are not
/* expected to change.  Both are commented in the
/* appropriate poprules should the range for either change.
t468884_91_1:   Glclmrt + 33 <= Glplitim;

end
end
end
```

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# Glclnhtod

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glclnhtod | LR | DMshort |

### 1.1 Glclnhtod

Global Office Parameter Glclnhtod

### 1.2 Description

Hours past midnight that file cleanup should start. 0-24 hours allowed - default to 0 (midnight).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glclnhtod.values: */

Glclnhtod is_in {0 thru 24};
```

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# Glclninh

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glclninh | LR | DMbool |

### 1.1 Glclninh

Global Office Parameter Glclninh

### 1.2 Description

Inhibit cleanup process. Default DBYES (inhibited).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBYES;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glclninh.values: */

       /* no check */ ;
```

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# Glclnmtod

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glclnmtod | LR | DMshort |

### 1.1 Glclnmtod

Global Office Parameter Glclnmtod

### 1.2 Description

Minutes past specified hour that file cleanup should start. 0-59 minutes allowed - default to 0.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glclnmtod.values: */

Glclnmtod is_in {0 thru 59};
```

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# Glcloffset_o

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcloffset_o | FP | DMuns4 |

### 1.1 Glcloffset_o

Global Office Parameter Glcloffset_o

### 1.2 Description

Glcl_offset shadow parameter used by DBclidattrg(). Gives the cluster offset for each member of a remote cluster, indicating the relative position within the cluster. For MMRSMs this parameter gives the relative RSM number (1-4) within the MMRSM RSM that the parameter is populated in. For ORMs and TRMs, this parameter is always set equal to 1. This number must agree with:

(1) The global office parameter, Glcl_offset.

(2) The 'cl_offset' attribute in the AM relation RLMODATT for the tuple whose key is the module number of the ORM/TRM/RSM this parameter is populated on.

(3) The 'cl_offset' attribute in the SM relation RLMATATT for each tuple corresponding to this RSM.

(4) The XX part of the corresponding rmXX attribute (actually one of rm01 - rm10) of the AM relation RLCLIDAT for the tuple corresponding to the cluster this module is in. The key to the CLIDAT tuple is the same as the 'clid' attribute of the MODATT tuple discussed in (1) above. The correct rmXX attribute (from which the XX = 'cl_offset' comes from) is the one which has as its value the SM number of the ORM/TRM/RSM this parameter is populated on.

RLMODATT defines the population rules for initially determining the cl_offset number. All other instances of this attribute are then determined from the RLMODATT entry. This number can be from one to four for RSMs and is always one in ORMs and TRMs. For all other module types, the null value of zero is populated.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

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***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glcloffset_o.values: */

       /* no check */ ;
```

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# Glcm_vint

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcm_vint | FP | DMcm_vint |

### 1.1 Glcm_vint

Global Office Parameter Glcm_vint

### 1.2 Description

Controls the selection of inter-message gapping delay by IC software in SM. This parameter is set to 5920 ( 0x1720, #defined CMCM2 ) for a CM2 equipped office and set to 0 ( 0x0000, #defined CMNON_CM2 ) for a non-CM2 equipped office.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glcm_vint.values: */

        /* no check */ ;
```

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# Glcm0vint

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcm0vint | LR | DMcmvint |

### 1.1 Fullname:

Global Office Parameter Glcm0vint

### 1.2 Description:

Glcm0vint indicates the vintage of system side 0 of the Communication Module. The domain of Glcm0vint is an unsigned character. Glcm0vint can assume the following enumeration (DMCMVINT) values:

```
SMCM1VINT - the CM hardware is Model 1
SMCM2VINT - the CM hardware is Model 2 / Model 2 Compact
```

Glcm0vint must be populated to indicate the vintage of system side 0 of the CM hardware, that is, Model 1 or Model 2/Model 2 Compact.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** SMCM1VINT

***CMP Initial Value:*** SMCM1VINT

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
/* standard */
```

***Import:***

```
chk_apperm.R
```

***Checks:***

```
/* RULE about Glcm0vint.values: */

BCsmCM0VINT1: Glcm0vint is_in {SMCM1VINT, SMCM2VINT, SMNULLVINT};

/* For offices without a CM (for example, a VCDX office),
 * this parameter must be CM2; this is done to prevent code breakage.
 */
```

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```
if (c_aperm(PVUCM,CONFIGMAX) == false) then
begin
BCsmCM0VINT2: Glcm0vint == SMCM2VINT;
end
```

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# Glcm1vint

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcm1vint | LR | DMcmvint |

### 1.1 Fullname:

Global Office Parameter Glcm1vint

### 1.2 Description:

Glcm1vint indicates the vintage of system side 1 of the Communication Module. The domain of Glcm1vint is an unsigned character. Glcm1vint can assume the following enumeration (DMCMVINT) values:

```
SMCM1VINT - the CM hardware is Model 1
SMCM2VINT - the CM hardware is Model 2/Model 2 Compact
```

Glcm1vint must be populated to indicate the vintage of system side 1 of the CM hardware, i.e., Model 1 or Model 2/Model 2 Compact.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** SMCM1VINT

***CMP Initial Value:*** SMCM1VINT

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
/* standard */
```

***Import:***

```
chk_apperm.R
```

***Checks:***

```
/* RULE about Glcm1vint.values: */

BCsmCM1VINT1: Glcm1vint is_in {SMCM1VINT, SMCM2VINT, SMNULLVINT};

/* If there is no CM in the office such as in a VCDX office,
 * the parameter must be CM2. This is done to prevent code breakage.
 */
```

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```
if (c_aperm(PVUCM,CONFIGMAX) == false) then
begin
       BCsmCM1VINT2: Glcm1vint == SMCM2VINT;
end
```

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# Glcmc_conn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcmc_conn | FR | DMbool |

### 1.1 Glcmc_conn

Global Office Parameter Glcmc_conn

### 1.2 Description

This parameter is used to determine if a call from a Cellular Mobile Carrier (CMC) to a Feature Group D (FGD) Carrier should use the seizure time when a seizure is detected on an incoming trunk from the CMC or the connect time when the initial wink is received from the FGD carrier. The default value is DBNO, which represents seizure time.

This parameter cannot be set to DBYES unless the Type 2A AMA special feature is purchased and SFID128 is set.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcmc_conn.values: */

Glcmc_conn is_in {DBNO, DBYES};
```

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# Glcmconv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcmconv | LRFP | DMbool |

### 1.1 Fullname:

Global Office Parameter Glcmconv.

### 1.2 Description:

Communication module conversion indicator. Indicates whether or not conversion is in progress. Conversion may be the CM1 to CM2 conversion, CM2 single to dual fabric conversion, VCDX to AM/CM2 conversion, or CDX to CM2 conversion.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** This global parameter has distribution type "LRFP", but only the AM/CMP portion of this paramter will be updatable by RC/V. The SM portions of this parameter will need to be handled by ODBE. As of 5E9.2, the only user of this parameter is the CM single to dual fabric conversion uses ODBE to explicitly update this parameter. In 5E11, additional users of this parameter are the VCDX to AM/CM2 conversion and the CDX to CM2 conversion. ODBE will be used to update this parameter.

***Retrofit Rules:*** Not applicable.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        ;
```

***Checks:***
```
/* RULE about Glcmconv.values: */

Glcmconv is_in {DBNO, DBYES};
```

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# Glcmdthres

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcmdthres | FR | DMshort |

### 1.1 Glcmdthres

Global Office Parameter Glcmdthres, CMP distribution Threshold number

### 1.2 Description

This global office parameter defines the minimum number of SMs a SHDN group must be spread across before CMP distribution will be used for sending messages between terminals.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4

***AM Initial Value:*** 4

***CMP Initial Value:*** 4

***RC/ODA Rules:*** Populate to default value. RC does not have to administer this Global.

***Retrofit Rules:*** Populate to default value unless changed by ODBE. If the value has been changed via ODBE ODA must map the new value forward at retrofit time.

***Default Rules:***

```
default = 4;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcmdthres.values: */

Glcmdthres is_in {0 thru 32};
```

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# Glcmt_dmh

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcmt_dmh | FP | DMbool |

### 1.1 Fullname:

Global Office Parameter Glcmt_dmh

### 1.2 Description:

This global parameter specifies whether the message handler (MH) on the SM is acting as a Direct MH. If the MH is acting as a direct MH, Glcmt_dmh is set to DBYES; otherwise it is set to DBNO.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** When a message handler SM is inserted via Recent Change view 16.16 or ODA form CMTMH, the global parameter Glcmt_dmh on the SM should be set to DBYES. When a message handler SM is deleted via Recent Change view 16.16 or ODA form CMTMH, the global parameter, Glcmt_dmh on the SM should be set to DBNO.

***Retrofit Rules:*** The value should be preserved over the retrofit.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        begin
                pcrlist[modatt.module] = true;
        end
```

***Checks:***
```
/* Glcmt_dmh should be DBYES if the MH is
 * acting as the direct MH; otherwise it
 * should be DBNO.
 */


if (current_pcr is_in sm_all) then
```

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```
begin

        let x = count {cmtpath in RLcmtpath
                       where ((cmtpath.ngsm == current_pcr) &&
                              (cmtpath.mh_sm == current_pcr) &&
                              (cmtpath.pathtype == PSCMT_DMH))};

        if (x > 0) then
        begin
                Glcmt_dmh == DBYES;
        end
        else
        begin
                Glcmt_dmh == DBNO;
        end
end
```

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# Glcmt_tmhcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcmt_tmhcnt | FP | DMshort |

### 1.1 Fullname:

Global Office Parameter Glcmt_tmhcnt

### 1.2 Description:

This global parameter specifies the total number of SM's that are using this SM's message handler (MH) as a transfer MH.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** When an SM is provisioned as a transfer MH SM via Recent Change view 16.16 or ODA form CMTMH, the global parameter Glcmt_tmhcnt on the SM should be incremented.
When a transfer MH SM is deleted via Recent Change view 16.16 or ODA form CMTMH, Glcmt_tmhcnt should be decremented.

***Retrofit Rules:*** The value should be preserved over the retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        begin
                pcrlist[modatt.module] = true;
        end
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

        Glcmt_tmhcnt == count { cmtpath in RLcmtpath
                        where (cmtpath.mh_sm == current_pcr &&
                               cmtpath.pathtype == PSCMT_TMH)};
end
```

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# Glcn_credit

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcn_credit | FP | DMtd_code |

### 1.1 Glcn_credit

Global Office Parameter Glcn_credit

### 1.2 Description

This parameter contains the coin credit trouble number for the office. It is a 3-digit number ranging from 0-999, even though space for 4 digits had to be reserved. All digits should be padded on the right with nulls. It is Group Partitioned, restricted to OSPS SMs and PSMs only; that is, SMs with grp_type = GPD_OPRT and grp_id = 2 (see RLdb_gpdus.R).

***Type:*** DB4STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** "\0"

***AM Initial Value:*** "NULL"

***CMP Initial Value:*** "NULL"

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OPRT,2);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
/* RULE about Glcn_credit.values: */

if (current_pcr is_in { 1 thru 192 }) then
begin
        Glcn_credit == "" ||
        Glcn_credit ~== "[0-9]*";
end
```

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# Glcn_fraud

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcn_fraud | FP | DMtd_code |

### 1.1 Glcn_fraud

Global Office Parameter Glcn_fraud

### 1.2 Description

This parameter contains the coin fraud trouble number for the office. It is a 3-digit number ranging from 0-999, even though space for 4 digits had to be reserved. All digits should be padded on the right with nulls. It is Group Partitioned, restricted to OSPS SMs and PSMs only; that is, SMs with grp_type = GPD_OPRT and grp_id = 2 (see RLdb_gpdus.R).

***Type:*** DB4STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** "\0"

***AM Initial Value:*** "NULL"

***CMP Initial Value:*** "NULL"

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OPRT,2);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
/* RULE about Glcn_fraud.values: */

if (current_pcr is_in { 1 thru 192 }) then
begin
        Glcn_fraud == "" ||
        Glcn_fraud ~== "[0-9]*";
end
```

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# Glcn_warn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcn_warn | FR | DMuns5 |

### 1.1 Glcn_warn

Warning timer for Pre-paid Overtime for Coin

### 1.2 Description

This parameter is used for the Pre-Paid Overtime for Coin feature. This parameter is the warning timer for the amount of time prior to the end of the current overtime period that a warning should be given to the caller. It shall be populated as determined by the service provider, where a value of 0 indicates that no warning will be given. Currently, the default value is 0, with the capability of being changed to 1 - 15.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 15

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5E9_1 to 5E9_2: Bits 0-3 of Gloff2 must be copied to this global.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcn_warn.values: */

Glcn_warn is_in {0 thru 15};
```

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# Glcnam_qry

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcnam_qry | FR | DMbool |

### 1.1 Glcnam_qry

CNAM query permission override

### 1.2 Description

This parameter is used by revised analog calling name display (CNAM) for interswitch calls when a generic name parameter is not received and the calling number is marked as private. In this case, this value is used to decide whether a query to the network names data base should be made.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** ODA only supports the values 0(N) and 1(Y). The default is 1(Y).

***Retrofit Rules:*** On retrofit, if the value is neither 0 nor 1, reset to 1.

***Default Rules:***

```
default = DBYES;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcnam_qry.values: */

        /* no check */ ;
```

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# Glcnd_tim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcnd_tim | FP | DMuns16 |

### 1.1 Glcnd_tim

Global office parameter Glcnd_tim

### 1.2 Description

This parameter specifies the value, in milliseconds, of the time to wait for an AP response to a Calling Name Display (CND) request before sending out an information message with available data.

This parameter should be populated in all the ISDN SMs only. Therefore, for the SMs with the GLISDNBASE software loadable package, the range of values for Glcnd_tim is between 2000 - 6000 milliseconds. The default is 2000 milliseconds. The value should be the same in every ISDN SM. The initial value should be set to 2000 (decimal). Afterwards this parameter will be recent changeable. The value of this parameter should be retained during retrofits and growths.

For the SMs with software loadable package other than GLISDNBASE, Glcnd_tim is set to 0.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2000

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** The value of this parameter should be retained during retrofits and growths.

For 5E9.2 to 5E10, see EVL code in Glcnd_tim.V.

***Default Rules:***

```
default = ( count { lpconf in RLlpconfig
                    where ( lpconf.smconfig == Glconfigname &&
                            lpconf.package == GLISDNBASE )
                  } == 1 ) ? 2000 : 0;
```

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

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***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glcnd_tim: */

if ( count { lpconf in RLlpconfig
             where ( lpconf.smconfig == Glconfigname &&
                     lpconf.package == GLISDNBASE )
           } == 1 ) then
begin
        Glcnd_tim is_in { 2000 thru 6000 };
end
else
begin
        Glcnd_tim == 0;
end

end
```

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# Glcnfsig

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcnfsig | FP | DMbool |

### 1.1 Glcnfsig

Whether to conform to Bellcore ANI signaling standards

### 1.2 Description

This parameter indicates whether this OSPS conforms to Bellcore ANI signaling standards, that is, whether a 0 or 1 is not accepted as the first digit in a 7-digit ANI.

```
     Y (DBYES) means 0 or 1 is not accepted as the first digit;

     N (DBNO) means 0 or 1 is accepted.
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parameters, so FP is specified */
/* here.  The group partitioning should be:               */
/*      RLdb_gpdus.grp_type = GPD_OPRT                    */
/*      RLdb_gpdus.grp_id   = 2                           */
pcrlist = get_gpd_pcrlist (GPD_OPRT,2);
```

***Import:***

```
"PLgpd_defs.R"
```

***Checks:***

```
/* RULE about Glcnfsig.values: */
```

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```
        /* no check */ ;
```

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# Glcnigi

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcnigi | FR | DMcnigi |

### 1.1 Glcnigi

Calling Number Identification Services Option (Intra-Group Only)

### 1.2 Description

When set to FCIGOCNIGI all terminal group customers are now restricted to Intra-group only delivery of calling party number (CPN), Redirecting Number RN, Calling party Subaddress (CgPS), and ICLID. This can be overridden per-line or per-trunk.

FCNRSTCNIGI- (default for office) Display/deliver CPN or RN information on all calls.

FCIGOCNIGI - Display/deliver CPN or RN information only on intra-group calls.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** FCNRSTCNIGI

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter is populated by Recent Change.

***Retrofit Rules:*** For retrofits to 5E10.1, The Glcnigi is mapped to FCNRSTCNIGI.

***Default Rules:***
```
default = FCNRSTCNIGI;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glcnigi.values: */

        Glcnigi is_in {FCNRSTCNIGI, FCIGOCNIGI};
```

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# Glcnm_tcap

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcnm_tcap | FR | DMuns7 |

### 1.1 Glcnm_tcap

Global Office Parameter Glcnm_tcap

### 1.2 Description

This parameter is used by the Analog Calling Name Delivery special feature (SFID 40) to indicate the wait period for a response to Calling Name TCAP queries. The wait period should be from 1-6 seconds.

Glcnm_tcap is specified in seconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 3

***AM Initial Value:*** 3

***CMP Initial Value:*** 3

***RC/ODA Rules:*** It should initially be populated with 3 seconds.

***Retrofit Rules:*** 5E7 to 5E8:

For 5E7, this data is stored in Glim3dummy and will no longer be used by the Analog Calling Name Delivery (Phase 2) Special Feature (SFID40) for 5E8. For 5E8, Glim3dummy will be replaced by Glcnm_tcap.

Copy the value of Glim3dummy to Glcnm_tcap:

Glim3dummy --> Glcnm_tcap

***Default Rules:***

```
default = 3;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcnm_tcap.values: */

Glcnm_tcap is_in {1 thru 6};
```

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# Glcnmech

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcnmech | FP | DMshort |

### 1.1 Fullname:

Percentage of COIN and MECH traffic in the office.

### 1.2 Description:

The Glcnmech global parameter holds the summation of the percentage of COIN traffic in the office and MECH traffic in the office. Its value is established via ODA or RC/V and is maintained over retrofits.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** OAalo_coinot,

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter must have the same value on all SMs where it is populated. For offices retrofitting to 5e9.2 and for initial offices, ODA should populate this parameter with the value 80, unless directed by the customer to use a different value (the customer may determine a different value based on actual or projected call volumes).

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* Though this global parameter is not populated everywhere,
         * as for all FP global parameters, there is storage allocated
         * for it on all SMs.  Thus the following distribution rules.
         */
        for pcw in sm_all
        pcrlist[pcw] = true;
```

***Import:***

```
PLgpd_defs.R
```

***Checks:***

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```
/* RULE about Glcnmech */

let pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
if (current_pcr is_in sm_all) then
begin
        if ( pcrlist[current_pcr] == true ) then
                Glcnmech is_in {0 thru 100};
        else
                Glcnmech == 0;
end
```

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# Glcofflen

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcofflen | FR | DMushort |

### 1.1 Fullname:

CDMA DTMF Tone Off Duration

### 1.2 Description:

This parameter is used by the CDMA DTMF Tone Generation Programmability application on the *5ESS*®-2000 switch. This parameter specifies the DTMF Tone Off Duration for CDMA calls.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global parameter is supported by RC and ODA. RC View 8.1, Office Parameters, will support this parameter.

***Retrofit Rules:*** The value of this parameter will be maintained in the next generic.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glcofflen.values: */

Glcofflen is_in {0, 50 thru 200 by 50};

if (Glcdtmfovr == DBNO) then
        Glcofflen == 0;
else
        Glcofflen > 0;
```

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# Glcoincnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcoincnt | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Count Of Coin Lines

### 1.2 Description:

The Glcoincnt global parameter contains an SM's count of coin lines. Its value is maintained over all initializations and updated via trigger functions as coin lines are inserted or deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as coin lines are inserted or deleted. Its value can increase and decrease.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
function get_cnt(int pcr) returning int
begin
        coincnt = 0;

        for fc_line in RLfc_line on pcr
        where (fc_line.port.module == pcr)
        begin
                l_count = 0;
```

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```
                l_count = ( count { fc_porttyp in RLfc_porttyp
                where ((fc_porttyp.port == fc_line.port) &&
                        (fc_porttyp.servclass == FC_COIN)) } );

                coincnt = coincnt + l_count;
        end

        return coincnt;
end

if (current_pcr is_in sm_all) then
begin

/* RULE about Glcoincnt.values: */


        Glcoincnt is_in {0 thru 28800};

/* runslow added due to linear search of FC_LINE and excessive
 * cpu usage */
if (runslow) then
begin

        Glcoincnt == get_cnt(current_pcr);
end
end
```

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# Glcoinfst

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcoinfst | FP | DMbool |

### 1.1 Glcoinfst

Global Office Parameter Glcoinfst

### 1.2 Description

Coin foreign station sets? Dial Tone First (DTF) coin telephone sets must lift a coin deposit ground during the talk (line loop current) state to prevent being hung to an operator trunk during line reverse battery conditions. This option should be set=DBYES if DTF coin set options do not comply with this requirement but may experience noise from A/C induction on operator trunk calls while the line battery is reversed. This option can only be set to DBYES via ODBE.

On retrofit, preserve existing value.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glcoinfst.values: */

        /* no check */ ;
```

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# Glcoinlist

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcoinlist | LR | DMquarhour |

### 1.1 Glcoinlist

Global Office Parameter Glcoinlist

### 1.2 Description

Frequency of the automatic stuck.coin list printout. The stuck coin list should print automatically at regular intervals. These intervals are quarter-hour intervals ranging from 15 minutes up to 60 minutes. Each office should be able to set and change the frequency of this list.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DB15_MIN

***CMP Initial Value:*** DB15_MIN

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcoinlist.values: */

        /* no check */ ;
```

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# Glcoinot

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcoinot | FP | DMshort |

### 1.1 Fullname:

Current number of tuples in Rlcoinot.

### 1.2 Description:

This global parameter contains a count of the number of rlCOINOT tuples.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** RC only: This parameter cannot be changed or viewed by Recent Change.

***Retrofit Rules:*** This value is always recalculated at retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glcoinot */
        Glcoinot is_in {0 thru 24192};

if (runucv) then
begin
if ((count({lpconf in RLlpconfig
        where(lpconf.smconfig == Glconfigname &&
```

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```
                lpconf.package == GLOPSMOT)}) > 0) ||
    (count({lpconf in RLlpconfig
        where(lpconf.smconfig == Glconfigname &&
                lpconf.package == GLOPSMDAAC)}) > 0)) then
begin
        Glcoinot is_in {0 thru 24192};
        /* Glcoinot is_in {0 thru ($DBQNCOINOT - $DBSFCOINOT)};
        Glcoinot >= (((Gloprtk * Glcnmech) + 99) / 100) +
        Glicoinot;
end else begin
        Glcoinot == 0;
end


end
end
```

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# Glcoinraf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcoinraf | FR | DMushort |

### 1.1 Glcoinraf

Number of RAF members in COIN announcement logical service group

### 1.2 Description

This global is used to keep a count of the number of members of the COIN Logical Service Group (LSG) which are from RAFs, as opposed to from SASs. It is updated every time a RAF member is added or removed from the COIN LSG.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global is read-only on RC/V view 5.1. It is updated internally from RC/V view 5.5 every time a member is added or removed from the LSG.

***Retrofit Rules:*** None.

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
        for rt_fixedri in RLrt_fixedri
            where (rt_fixedri.ritype == RT_OSPSCOIN)
        begin
                find == 1 rt_routing in RLrt_routing
                    where (rt_fixedri.ri == rt_routing.route_x)
                when_found
                begin
                        find == 1 rt_trkg in RLrt_trkg
                            where (rt_trkg.grpnum == rt_routing.portgrp.grpnum)
                        when_found
sas_92_1:                   Glcoinraf == rt_trkg.raf_mbrs;
                end
```

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```
end
```

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# Glcolcoalw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcolcoalw | FR | DMbool |

### 1.1 Glcolcoalw

Global Office Parameter Glcolcoalw

### 1.2 Description

This parameter indicates whether OSPS Quiet Hear Service should be applied on calls that are billed with a Collect Class-of-Charge.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5E10.1, this parameter must be set to the value in bit 15 in Gloff6.

***Default Rules:***
```
default = DBYES;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glcolcoalw.values: */

        /* no check */ ;
```

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# Glcompnd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcompnd | FP | DMcompnd |

### 1.1 Glcompnd

Global Parameter Companding Selector Glcompnd

### 1.2 Description

Selects type of companding -- Alaw or Mulaw, for analog to digital coding and digital to analog decoding for a Switch Module.

The companding type for the U.S. will always be set to Mulaw.

Although it is possible to have SMs with different companding types, that typically is not done except in gateway offices, and in countries that are evolving their network from MULAW companding to ALAW companding or vice versa.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** MULAW

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** None.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = MULAW;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then

begin
        Glcompnd == MULAW;
end
```

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# Glcon_pc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcon_pc | FP | DMuns11 |

### 1.1 Glcon_pc

SCCP Number of Concerned Point Codes

### 1.2 Description

This parameter is used by SCCP. It is used in the SM's indicated by Glgsm_net when Glgsm_net is not empty. Glcon_pc is a count of the number of concerned point codes to which this SM, as a signaling point, broadcasts SCCP NM messages.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ***NOTE:*** No concerned point codes are supported, therefore Glcon_pc should be populated with 0.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for gsm_net in RLgsm_net

begin
      pcrlist[gsm_net.gsm] = true;
end
```

***Checks:***
```
if (current_pcr is_in sm_all) then

begin

       /* Glcon_pc should equal 0. */
       Glcon_pc == 0;
end
```

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# Glconfigname

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glconfigname | LPFP | DMsmconfig |

### 1.1 Fullname:

Global Office Parameter Glconfigname

### 1.2 Description:

This global parameter is needed for functional modules. Each SM in an office may have different SM configuration. This parameter indicates the configuration loaded in the SM. The values for the configurations are defined in the domain DMSMCONFIG (uhdr/db/DMsmconfig.G).

> **WARNING:** This parameter cannot be used to determine what loadable packages (that is, functionality) is loaded on a given SM. See RLlpconfig.G to determine which loadable packages are loaded in each configuration.
>
> OSISLOADED (uhdr/os/OSoption.G) can also be used to get the information.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** CNFG001

***AM Initial Value:*** CNFG001

***CMP Initial Value:*** CNFG001

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** On retrofit to 5e9_2, the configurations for the SMs must be changed as follows:

```
D_BASIC          CNFG000
D_STANDARD       CNFG001
D_LOADED         CNFG002
```

On retrofit to 5e9_2, the configurations for the CMP and SM-2000 must be changed as follows:

```
CMP/AM           CNFG001
```

***Default Rules:*** None

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***

```
chk_apperm.R
```

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***Checks:***

```
/* RULE about Glconfigname.values: */

if (current_pcr is_in {1 thru 192}) then
begin
        Glconfigname < CONFIGMAX;
end

/* RULE about Glconfigna: */

if (current_pcr is_in {1 thru 192}) then
begin
        find == 1 smconf in RLsmconf
        where (smconf.module == current_pcr)
        when_found
        begin
                smconf.smconfig == Glconfigname;
        end

        /* Check if this is a VCDX SM. */
        if (c_aperm(PVMSKVCDX,CONFIGMAX) == true) then
        begin
                /* A VCDX SM must be CNFG003 or CNFG2K00 */
                Glconfigname is_in {CNFG003, CNFG2K00};
        end
        /* Check to see if this is a DRM */
        if (Glaws == DBYES && Glvirtsw == DBYES) then
        begin
                /* DRM must be CNFG2K00 */
                Glconfigname is_in {CNFG2K00};
        end
end
```

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# Glcong1qcp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcong1qcp | LRFR | DMuchar |

### 1.1 Glcong1qcp

Congestion level 1 (CONG1) queue capacity threshold

### 1.2 Description

This parameter is a threshold count, and will be used by the traffic mesurements. The value of this parameter is a percentage of the maximum depth of the PHA ATM receive queue.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 50

***AM Initial Value:*** 50

***CMP Initial Value:*** 50

***RC/ODA Rules:*** not applicable.

***Retrofit Rules:*** not applicable.

***Default Rules:***

```
default = 50;
```

***Distribution Rules:*** standard

***Checks:***

```
/* Glcong1qcp is in 0 thru 100 as it indicates
 * the percentage.
 */

Glcong1qcp is_in {0 thru 100};
```

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# Glcong2qcp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcong2qcp | LRFR | DMuchar |

### 1.1 Glcong2qcp

Congestion level 2 (CONG2) queue capacity threshold

### 1.2 Description

This parameter is a threshold count, and will be used by the traffic mesurements. The value of this parameter is a percentage of the maximum depth of the PHA ATM receive queue.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 80

***AM Initial Value:*** 80

***CMP Initial Value:*** 80

***RC/ODA Rules:*** not applicable.

***Retrofit Rules:*** not applicable.

***Default Rules:***
```
default = 80;
```

***Distribution Rules:*** standard

***Checks:***
```
/* Glcong2qcp is in 0 thru 100 as it indicates
 * the percentage.
 */
Glcong2qcp is_in {0 thru 100};
Glcong2qcp >= Glcong1qcp;
```

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# Glcongupd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcongupd | FP | DMcongupd |

### 1.1 Glcongupd

Global Office Parameter Glcongupd

### 1.2 Description

This parameter is only used by the National Version of Standardization Sector (SS7) , formerly CCITT7. GLcongupd indicates which congestion update method is being used by the GSM.

There are three possible congestion update methods defined in an enumeration found in the domain DMcongupd.G. They are CCNULLUPD, CCRCTMSG and CCCGTIMER. The enumerations CCRCTMSG and CCCGTIMER will be used only when the congtype found in RLgsm_opc is set to Multiple Congestion With Priorities.

CCNULLUPD will be used as a default for this Global Parameter on all Non-Global SMs.

CCRCTMSG is the method by which a Route Set Congestion Test Message is sent. CCCGTIMER is the method of setting a timer and lowering the congestion level after the timer expires.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** CCNULLUPD

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter can only be updated or changed during the growth or degrowth of a GSM.

***Retrofit Rules:*** None.

***Default Rules:***

```
for gsm_opc in RLgsm_opc
where (gsm_opc.gsm == Gl_pcrid)
begin
        if (gsm_opc.congtype != CCMLTCPRT) then
        begin
                default = CCCGTIMER;
        end
        else
        begin
```

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```
                default = CCRCTMSG;
        end
end

if ((Glnatl7sm != Gl_pcrid) && (Glintl7sm != Gl_pcrid)) then
begin
        default = CCNULLUPD;
end

default = CCNULLUPD;
```

***Distribution Rules:***

```
for gsm_opc in RLgsm_opc
begin
        pcrlist[gsm_opc.gsm] = true;
end
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
        for gsm_opc in RLgsm_opc
        where (gsm_opc.gsm == current_pcr)
        begin
                if (gsm_opc.congtype != CCMLTCPRT) then
                begin
                        Glcongupd == CCCGTIMER;
                end
                else
                begin
                        Glcongupd is_in {CCCGTIMER, CCRCTMSG};
                end
        end

        if ((Glintl7sm == 0) && (Glnatl7sm == 0)) then
        begin
                Glcongupd == CCNULLUPD;
        end
end
```

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# Glconlen

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glconlen | FR | DMushort |

### 1.1 Fullname:

CDMA DTMF Tone On Duration

### 1.2 Description:

This parameter is used by the CDMA DTMF Tone Generation Programmability application on the *5ESS*®-2000 switch. This parameter specifies the DTMF Tone On Duration for CDMA calls.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global parameter is supported by RC and ODA. RC View 8.1, Office Parameters, will support this parameter.

***Retrofit Rules:*** The value of this parameter will be maintained in the next generic.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glconlen.values: */

Glconlen is_in {0, 100 thru 350 by 50};

if (Glcdtmfovr == DBNO) then
        Glconlen == 0;
else
        Glconlen > 0;
```

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# Glcorcstart

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcorcstart | LPFP | DMlong |

### 1.1 GlcorcstartGlcot_access

Global Office Parameter Glcorcstart

### 1.2 Description

Contains the log file offset at which the next roll forward should start. No population required. System initials to '2'. This parameter is not affected by retrofit, nor is retrofit in any way affected by this parameter.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2

***AM Initial Value:*** 2

***CMP Initial Value:*** 2

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glcorcstart.values: */

        /* no check */ ;
```

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# Glcot_access

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcot_access | LRFP | DMaccess |

### 1.1 Glcot_accessGlcot_contact

Global Office Parameter Glcot_access

### 1.2 Description

This parameter is used to indicate COT feature access. It indicates whether the feature is unavailable for use, whether subscription is required to access the COT feature, whether the feature is generally available or whether the feature is temporarily unavailable for use. It should initially be populated with UNAVAILABLE. The AM value for this parameter is defaulted to 'UNAVAILABLE'. ODA must retain its value across retrofits to post 5E5 generics. The AM parameter is changed by RC/V only when the 'ALL' value is used for the SM key on the LASS Feature Access View. The AM parameter reflects the office standard value and is typically used to set the SM parameters after SM growth.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** UNAVAILABLE

***AM Initial Value:*** UNAVAILABLE

***CMP Initial Value:*** UNAVAILABLE

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = UNAVAILABLE;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glcot_access.values: */

Glcot_access is_in {UNAVAILABLE, GEN_AVAIL, SUBSCRIPTION, LASSNULL, TEMP_UNAVAIL};
```

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# Glcot_contact

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcot_contact | FR | DMdig10 |

### 1.1 Glcot_contact

Global Office Parameter Glcot_contact

### 1.2 Description

This parameter is used by COT to indicate the DN the COT user should call to find out information regarding the trace such as the agency to call. It will be displayed upon successful invocation of the feature. This domain will allow 10 digits to be displayed.

***Type:*** DB10STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** "\0"

***AM Initial Value:*** "NULL"

***CMP Initial Value:*** "NULL"

***RC/ODA Rules:*** If the DN is set to zero, the SM parameter Glcot_access cannot be set to SUBSCRIPTION or GENERALLY_AVAILABLE.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = "\0";
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcot_contact.values: */

        /* no check */ ;
```

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# Glcot_featid

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcot_featid | FR | DMfid |

### 1.1 Glcot_featid

Global Office Parameter Glcot_featid

### 1.2 Description

This parameter contains a feature id for generally 'AVAILABLE' feature access. This will be used by call processing to determine which tuple to read in the _cf and _opts relations for generally 'AVAILABLE' features. Even though this parameter has a default of null specified for the generally available feature id, ODA should populate this parameter as a result of the ODA process which converts feature names to feature ids. This parameter is populated with the last 10 bits of RLfacname.facid which is accessed by using the generally available feature name, /COTGA, as the key.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBGEN

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcot_featid.values: */

        /* no check */ ;
```

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# Glcot_notrace

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcot_notrace | FR | DMrteidx |

### 1.1 Glcot_notrace

Global Office Parameter Glcot_notrace

### 1.2 Description

This parameter is used by COT for a trace not available announcement route index.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcot_notrace.values: */

        /* no check */ ;
```

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# Glcotactivate

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcotactivate | FR | DMrteidx |

### 1.1 Glcotactivate

Global Office Parameter Glcotactivate

### 1.2 Description

This parameter is used by COT for a successful invocation of feature announcement route index.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcotactivate.values: */

        /* no check */ ;
```

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# Glcotparam

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcotparam | LR | DMlong |

### 1.1 Glcotparam

COT parameters for mode and priority

### 1.2 Description

This global parameter is used by the COT Transparency Feature. It stores three pieces of information. Bits 0-2 (where 0 is the least significant bit) indicate the COT message priority (1-5).

Bit 3 indicates the `mode` the COT feature is operating:

```
    1 = operate in the 1A Transparent mode where

        channel to be used is indicated in the CLASSDEF form.



    0 = operate in the original `mode` where

        dedicated channel tty45 is used.
```

Bit 4 indicates whether mode and priority have been initialized or not. If this field is a 1, then they have been initialized. If this field is 0, then the COT process will initialize this parameter to 20 (Dedicated mode of priority=4 and initialized bit set to 1).

These two pieces of information (mode and priority) are administered via craft input message and are not accessible via Recent Change.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** 20

***CMP Initial Value:*** 20

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** During a 5E6 to 5E7 retrofit, Glcp11dummy (5E6) should be mapped into Glcotparam (5E7).

***Default Rules:***

```
default = 20;
```

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***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcotparam.values: */

        /* no check */ ;
```

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# Glcotrept

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcotrept | FR | DMshort |

### 1.1 Glcotrept

Global Office Parameter Glcotrept

### 1.2 Description

Glcotrept, specified in seconds, is the time between the repeated CCS continuity tests (CCIS6/TUP/ISUP protocols). ODA should populate with default value for new office but preserve value from data base during retrofits and growths. This parameter is used only when the office contains CCS trunks as shown when one or more tuples of RLrt_trkg have in_sigtype or out_sigtype set to DBISUP7, DBTUP7 or DBCCIS6.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 120

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 120;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcotrept.values: */

Glcotrept is_in {60 thru 180};
```

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# Glcotresourcs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcotresourcs | FR | DMrteidx |

### 1.1 Glcotresourcs

Global Office Parameter Glcotresourcs

### 1.2 Description

This parameter is used by COT for an announcement route index which will indicate that no resources are available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcotresourcs.values: */

        /* no check */ ;
```

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# Glcottim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcottim | FR | DMshort |

### 1.1 Glcottim

Global Office Parameter Glcottim

### 1.2 Description

Glcottim, specified in seconds, is the timer set while waiting for the CCS Continuity message.

The value should be the same in every SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 12

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA should populate with default value for new offices.

***Retrofit Rules:*** ODA should preserve value from data base during retrofits and growths.

***Default Rules:***
```
default = 12;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcottim.values: */

Glcottim is_in {10 thru 15};
```

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# Glcountry

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcountry | LRFR | DMnation |

### 1.1 Glcountry

Global Office Parameter Glcountry

### 1.2 Description

The country which the ODD is populated for and it is used by RC for country dependent views, only Saudi Arabia (YSA), Columbia (COL), Netherlands (NETH), Republic of Korea (ROK), Taiwan (TAI) and Other (OTH) are supported in this generic. The range is enumerated and the RC/V support is None. Used by Export only.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** OTH

***AM Initial Value:*** OTH

***CMP Initial Value:*** OTH

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcountry.values: */

        /* no check */ ;
```

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# Glcp1dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcp1dummy | LR | DMlong |

### 1.1 Glcp1dummy

Global Office Parameter Glcp1dummy

### 1.2 Description

This parameter is used to control access to the disk. When a disk access results in a failure this parameter is set with the current timestamp. Future disk accesses are only allowed when the current timestamp is two minutes past the timestamp value contained in this parameter.

This parameter is set at system process initialization by the DB function DBdiskinit(), in response to a message MDSI_DBDSK received from AIM, or at routine intervals if the disk becomes inaccessible (DDSDSDP OFFNORMAL).

This parameter will be replaced in 5E6 with Glthrdisk.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** ODA should set the parameter to 0

***Default Rules:*** None

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcp1dummy.values: */

        /* no check */ ;
```

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# Glcp2dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcp2dummy | LR | DMlong |

### 1.1 Glcp2dummy

Global Office Parameter Glcp2dummy

### 1.2 Description

This parameter is being put in for future use. Populate to 0.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glcp2dummy.values: */

        /* no check */ ;
```

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# Glcp3dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcp3dummy | LR | DMlong |

### 1.1 Fullname:

Global Office Parameter Glcp3dummy

### 1.2 Description:

This parameter is being put in for future use. Populate to 0.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glcp3dummy.values: */

        /* no check */ ;
```

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# Glcp4dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcp4dummy | LR | DMlong |

### 1.1 Glcp4dummy

Global Office Parameter Glcp4dummy

### 1.2 Description

These are dummy parameters being put in for future need due to R load being frozen. Populate to 0.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glcp4dummy.values: */

        /* no check */ ;
```

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# Glcp5dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcp5dummy | LR | DMlong |

### 1.1 Glcp5dummy

Global Office Parameter Glcp5dummy

### 1.2 Description

These are dummy parameters being put in for future use. Populate to 0.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcp5dummy.values: */

        /* no check */ ;
```

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# Glcp6dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcp6dummy | LR | DMlong |

### 1.1 Fullname:

Global Office Parameter Glcp6dummy

### 1.2 Description:

This dummy parameter is for future use. Populate to 0.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glcp6dummy.values: */
```

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# Glcp7dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcp7dummy | LR | DMlong |

### 1.1 Glcp7dummy

Global Office Parameter Glcp7dummy

### 1.2 Description

These are dummy parameters being put in for future need due to R load being frozen. Populate to 0.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcp7dummy.values: */

        /* no check */ ;
```

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# Glcp8dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcp8dummy | LR | DMlong |

### 1.1 Glcp8dummy

Global Office Parameter Glcp8dummy

### 1.2 Description

These are dummy parameters being put in for future need due to R load being frozen. Populate to 0.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcp8dummy.values: */

        /* no check */ ;
```

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# Glcp9dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcp9dummy | LR | DMlong |

### 1.1 Glcp9dummy

Global Office Parameter Glcp9dummy

### 1.2 Description

These are dummy parameters being put in for future need due to R load being frozen. Populate to 0.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 16793604

***CMP Initial Value:*** 16793604

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcp9dummy.values: */

        /* no check */ ;
```

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# Glcp10dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcp10dummy | LR | DMlong |

### 1.1 Fullname:

Global Office Parameter Glcp10dummy

### 1.2 Description:

This parameter is for future use. populate to 0.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glcp10dummy.values: */
```

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# Glcp11dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcp11dummy | LR | DMlong |

### 1.1 Glcp11dummy

Global Office Parameter Glcp11dummy

### 1.2 Description

This parameter is being put in for future use. Populate to 0.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcp11dummy.values: */

        /* no check */ ;
```

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# Glcp12dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcp12dummy | LR | DMlong |

### 1.1 Glcp12dummy

Global Office Parameter Glcp12dummy

### 1.2 Description

This parameter is used by the Recent Change Downward Compatibility Capability (u1150) for 5E8.1. This parameter provides a means for setting the office default for the 'version' APPTEXT session parameter. The valid values (for 5E8.1) are 0, 6, 7, and 8. If this parameter is set to '6' on the AM, all input to any APPTEXT sessions initiated in the office is expected to be in 5E6.1 format. If this parameter is set to '7' on the AM, all input to any APPTEXT sessions initiated in the office is expected to be in 5E7.1 format. If this parameter is set to '0' or '8' on the AM, all input to any APPTEXT sessions initiated in the office is expected to be in 5E8.1 format.

The value of this parameter on the CMP is not significant.

This functionality will be moved to global parameter Gldfltvers in 5E9(1).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcp12dummy.values: */

        /* no check */ ;
```

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# Glcp13dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcp13dummy | LR | DMlong |

### 1.1 Glcp13dummy

Global Office Parameter Glcp13dummy

### 1.2 Description

This parameter is being put in for future use. Populate to 0.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** This global parameter for the ESP back-lighting option SF is no longer in the 5E9 SR. The value in this global parameter should now be carried into the Glespnorm global parameter for the 5E9 SR. For a retrofit to 5E9, this global parameter should be initialized with a value of zero.

***Default Rules:*** None

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcp13dummy.values: */

        /* no check */ ;
```

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# Glcp14dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcp14dummy | LR | DMlong |

### 1.1 Glcp14dummy

Global Office Parameter Glcp14dummy

### 1.2 Description

This parameter is being put in for future use. Populate to 0.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcp14dummy.values: */

        /* no check */ ;
```

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# Glcp15dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcp15dummy | LR | DMlong |

### 1.1 Glcp15dummy

Global Office Parameter Glcp15dummy

### 1.2 Description

This parameter is being put in for future use. Populate to zero.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcp15dummy.values: */

        /* no check */ ;
```

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# Glcpdls

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcpdls | LR | DMuns9 |

### 1.1 Glcpdls

Global Office Parameter Glcpdls

### 1.2 Description

Glcpdls keeps count of the total number of External Information System (EIS) call processing data links on the *5ESS*®-2000 switch (all SMs). As EIS CPDLs are added or removed from any SM, this global is incremented or decremented accordingly.

The Glcpdls global must always equal the sum of the global Gleisdl across all SMs.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcpdls.values: */

Glcpdls is_in {0 thru 320};
```

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# Glcperleak

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcperleak | FR | DMuchar |

### 1.1 Glcperleak

Speech Handler (SH) Channel Trunk leak rate

### 1.2 Description

This office parameter indicates the protocol error record (PER) leak rate for the speech handler channel trunks. The parameter applies to all trunks on a switch. The leak rate represents the number of PERs to be leaked in a period of time.

Example: If the value of this global parameter is set to 5 and the time interval is 3 minutes, then every 3 minutes 5 PERs will be leaked.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 5

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable.

***Retrofit Rules:*** not applicable.

***Default Rules:***

```
default = 5;
```

***Distribution Rules:*** standard

***Checks:***

```
        Glcperleak is_in {0 thru 255};
```

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# Glcperthrs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcperthrs | FR | DMuchar |

### 1.1 Glcperthrs

Speech handler (SH) Voice channel trunks PER threshold

### 1.2 Description

This office parameter indicates the protocol error record (PER) error threshold for speech handler channel trunks. This parameter applies to all the trunks on a switch. A report is generated when the defined PER threshold value is met.

Example: If this global parameter is set to 15, then when the PER count for a trunk reaches 15 a report is generated. An internal counter is reset so that the next report is only generated when a new PER count of 15 is reached.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 15

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable.

***Retrofit Rules:*** not applicable.

***Default Rules:***

```
default = 15;
```

***Distribution Rules:*** standard

***Checks:***

```
        Glcperthrs is_in {0 thru 255};
```

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# Glcplr_total

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcplr_total | FP | DMushort |

### 1.1 Fullname:

Count of total number of coupler tuples populated in SM.

### 1.2 Description:

The Glcplr_total global parameter contains an SM's current rlCPLR tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as PRI B channels, announcement trunks,wideband capable trunks and CALEA trunks are assigned. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glcplr_total.values: */

/*      Glcplr_total is_in {0 thru (DBQNCPLR - DBSFCPLR)};*/
        Glcplr_total is_in {0 thru (65535 - 1)};
```

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```
end

/* RULE about Glcplr_tot: */

function func() returning int
begin
        avispatps = 0;
        cplr_total = 0;

        find == 1 modatt in RLmodatt
        where (modatt.module == current_pcr)
        when_found
        begin
                if (modatt.unittype is_in {SMSM2000, SMSM2005})
                then
                begin
                        avispatps = 32; /* AVISPATPS =
                        number of ISPA TPs SM-2000 */
                end
                else
                begin
                        avispatps = 16; /* AVISPATPS = number of
                                         * ISPA TPs SM */
                end

                cplr_total = (24*avispatps) + Glannc_cplrs +
                             (1 + (Glcal_trnk/5 )) + Glbchncnt +
                                                     Glwb_trks;

        end

        return cplr_total;

end

if (runucv) then
begin
if (current_pcr is_in sm_all) then
begin

        let CPLR_TOTAL = func();

        /* if (CPLR_TOTAL + Glicplr <= (DBQNCPLR - DBSFCPLR))
         * then      */
        if (CPLR_TOTAL + Glicplr <= (65535 - 1)) then
        begin
                Glcplr_total >= CPLR_TOTAL + Glicplr;
        end
        else
        begin
        /*      Glcplr_total == DBQNCPLR - DBSFCPLR;    */
                Glcplr_total == 65535 - 1;
        end
```

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```
end
end
```

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# Glcqb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcqb | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter rlCQB Tuple Count

### 1.2 Description:

The Glcqb global parameter contains an SM's current rlCQB tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as Glicqb is increased. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 64;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glcqb.values: */
if (current_pcr is_in sm_all) then
begin

/*      Glcqb is_in {64 thru (DBQNCQB - DBSFCQB)};      */
        Glcqb is_in {64 thru (321 - 1)};
```

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```
/* RULE about Glcqb: */

if (runucv) then
begin
/*      if (64 + Glicqb <= (DBQNCQB - DBSFCQB)) then    */
        if (64 + Glicqb <= (321 - 1)) then
                Glcqb >= (64 + Glicqb);
        else
/*              Glcqb == DBQNCQB - DBSFCQB;     */
                Glcqb is_in {64 thru (321 - 1)};
end
end
```

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# Glcqdbx

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcqdbx | LRFR | DMuns13 |

### 1.1 Glcqdbx

Global Office Parameter Glcqdbx

### 1.2 Description

This parameter is initialized by ODA to equal the sum of the Glctmcs and Glictmc Global Parameters. The Logical Processor from which to obtain the values of Glctmcs and Glictmc is identified by Glpacdg.

This parameter does not appear on any ODA form. This parameter is initialized by the RLCQDB initialization function to equal the actual number of tuples in RLCQDB. If the RLCQDB initialization succeeds then Glcqdbx will be set to the sum (Glctmcs + Glictmc). In case of initialization failure, Glcqdbx will reflect the actual number of RLCQDB tuples successfully initialized.

This parameter is displayed (read only) on the RC/V OSPS Office Parameters view 8.9 in the field named 'ACTUAL CQDB' in the 'CALL QUEUE SLOTS' section.

The RLCTINFO trigger function will increase the value of Glcqdbx as additional RLCQDB tuples are inserted in response to increases to Glctmcs and Glictmc. The RLCTINFO trigger function will insert RLCQDB tuples and correspondingly increase Glcqdbx such that Glcqdbx is not less than the sum (Glctmcs + Glictmc). Glcqdbx is specified in decimal.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by ODA. It is not supported by RC.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glcqdbx.values: */
```

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```
Glcqdbx is_in {0 thru 5000};

/* RULE about Glcqdbx: */

Glcqdbx >= Glctmcs on cmp + Glictmc on cmp;
```

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# Glcqhtod

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcqhtod | LP | DMuchar |

### 1.1 Glcqhtod

Global Office Parameter Glcqhtod

### 1.2 Description

This parameter specifies the hours past midnight that the daily automatic office wide circuit query will start.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** ---

***SM Initial Value:*** ---

***AM Initial Value:*** 3

***CMP Initial Value:*** 3

***RC/ODA Rules:*** This parameter is recent changeable via the CCS Office Parameters view. A value of blank can be entered on the recent change view. Blank will be mapped to 0xff within recent change.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 3;
```

***Distribution Rules:***
```
        pcrlist[am] = true;
```

***Checks:***
```
/* RULE about Glcqhtod.values */ ;

if (Glcqhtod on am != 0xff) then
begin
        Glcqhtod on am is_in { 0 thru 23 };
end
```

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# Glcqmcs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcqmcs | LP | DMushort |

### 1.1 Glcqmcs

Sum of the ACD/BRCS Call Queue's maximum calls attributes

### 1.2 Description

This global parameter, Call Queue Maximum Calls Sum (CQMCS), contains the sum of the ACD/BRCS Call Queue's maximum calls attributes.

The mapping code for the Call Queue Parameters Recent Change view will maintain the value of Glcqmcs as Recent Changes to this view modify the sum of rlCQPARM.max_calls attributes. The rlCQPARM trigger function will insert additional tuples into rlCLLQDB such that the number of tuples (reflected in Glcllqdb) is not less than the value of Glcqmcs.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by ODA but the value does NOT appear on any ODA form. It is initialized by ODA to equal the sum of the rlCQPARM.max_calls attributes.

***Retrofit Rules:***
```
/* See evolution rules in Glcqmcs.V */
```

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard - LP ( CMP ) */

;
```

***Checks:***
```
/* RULE about Glcqmcs.values: */

Glcqmcs on cmp is_in {0 thru 40000};
```

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```
/* RULE about Glcqmcs: */
Glcqmcs on cmp == sum( RLcqparm.max_calls );
```

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# Glcqop

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcqop | LP | DMbool |

### 1.1 Fullname:

OSPS call queue and operator automatic reconfiguration activation

### 1.2 Description:

This parameter indicates if the OSPS call queue and operator automatic reconfiguration is active in this office. If set to DBYES, call queue and operator automatic reconfiguration pattern data is processed by the auto-reconfiguration terminal process, which is created every 15 minutes.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** 0

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** ODA should always populate this parameter with the default value

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard - LP ( AM ) */
        ;
```

***Checks:***

```
/* RULE about Glcqop.values: */

        /* no check */ ;
```

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# Glcqrng

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcqrng | LRFR | DMuchar |

### 1.1 Glcqrng

Circuit range for Circuit Group Query message

### 1.2 Description

This parameter defines the maximum range of circuits for Circuit Group Query message. This range will differ depending upon application.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** ---

***SM Initial Value:*** 23

***AM Initial Value:*** 23

***CMP Initial Value:*** 23

***RC/ODA Rules:*** This parameter is NOT Recent Changeable;

***Retrofit Rules:*** not applicable;

***Default Rules:***
```
oda_default=23;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
Glcqrng is_in {0 thru 23};
```

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# Glcrat

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcrat | FR | DMshort |

### 1.1 Glcrat

Global Office Parameter Glcrat

### 1.2 Description

When the Originating Toll Office (OTO) receives Circuit Reservation Message (CRM) from the Originating Access Tandem (OAT), it sends a Circuit Reservation Acknowledgement (CRA) message back to the OAT at which point this timer is set at the OTO. This timer will indicate the elapsed time to wait before an Initial Address Message (IAM) is received from the OTO. The range of this timer is 20 to 25 seconds with 1 second intervals.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 25

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 25;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcrat.values: */

Glcrat is_in {20 thru 25};
```

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# Glcrecord

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcrecord | FP | DMshort |

### 1.1 Fullname:

Maximum number of Base and OSPS Call Records

### 1.2 Description:

This parameter contains a count of the number of rlCRECORD and, for OSPS offices, the number of rlOCRECORD tuples.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 424

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions. It will never be decreased.

***Retrofit-ODA Rules:*** not applicable

***Retrofit Rules:*** This value is always recalculated at retrofit.

***Default Rules:***
```
default = 424;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
AVextern.R
"env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
        Glcrecord is_in {424 thru (32000 - 1)};
end
```

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```
/* RULE about Glcrecord: */

function func() returning int
begin
avsmsysp = 105; /* AVSMSYSP = maximum number of SM OSDS SPs */

avnoncalltps = 0;

find == 1 modatt in RLmodatt
where (modatt.module == current_pcr)
when_found
begin
        if (modatt.unittype is_in {SMSM2000, SMSM2005}) then
        begin
                /* The number of non-call processing TPs
                 * (MRA, ISPA, etc) SM-2000 */
                avnoncalltps = AVNONCALLTPS_ASM2K();
        end
        else
        begin
                /* The number of non-call processing TPs
                 * (MRA, ISPA, etc) SM*/
                avnoncalltps = AVNONCALLTPS_ASM();
        end
end

/* Compute the number of PCBs that were added for ASP
 * Originating triggers ( office wide and those provisioned on
 * the line and active.  These TPs do not use call records so
 * subtract the #pcbs from the number of call records. This
 * calculation must be in sync with the poprules for Glospcb.R.
 */
 npcbasp = 0;
/* Calculate the number of PCBs for office wide BLNA triggers */
 if (Glorgnatrg >0 || Glorgbltrg >0) then
 begin
        npcbasp = (Glalinecnt + Glshanal + Glmaxterm + 71)/72;
 end

/* Calculate the number of PCBs for provisioned BLNA triggers */
 if ( Globlnalin > 0 ) then
 begin
        npcbasp = npcbasp + ( ( Globlnalin + 71 )/72 );
 end


ncrbase = 0;
ncrbase = ((Glospcb - avnoncalltps -avsmsysp - npcbasp) *
            83 + 99) / 100;

ncrecadd=0;

crecord = ncrbase + ncrecadd;
```

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```
        return crecord; /* return crecord to main program func() */
end

if (runucv) then
begin

if (current_pcr is_in sm_all) then
begin
        let CRECORD = func();

        /* if (crecord + Glicrd <= (DBQNCRECOR - DBSFCRECOR))
         * then */
        if (CRECORD + Glicrd <= (32000 - 1)) then
        begin
                Glcrecord >= CRECORD + Glicrd;
        end
        else
        begin
        /*      Glcrecord == DBQNCRECOR - DBSFCRECOR;   */
                Glcrecord == 32000 - 1;
        end

        /* Glcrecord is_in {424 thru (DBQNCRECOR - DBSFCRECOR)} */
        Glcrecord is_in {424 thru (32000 - 1)};

end
end
```

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# Glcritalrm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcritalrm | LR | DMuns7 |

### 1.1 Glcritalrm

AMA Disk Writer Critical Alarm

### 1.2 Description

This variable gives the critical alarm setting as a percentage of total AMA disk storage.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 100

***AM Initial Value:*** 100

***CMP Initial Value:*** 100

***RC/ODA Rules:*** ODA and RC support all possible values. The default is 100.

If the value of Glcritalrm is greater than or equal to 4 and less than or equal to 100, then Glcritalrm should be at least 4 greater than the value of Glminalrm, given that Glminalrm is populated with a valid value (0-96), and at least 2 greater than the value of Glmajalrm, given that Glmajalrm is populated with a valid value (2-98).

Rule about Glcritalrm:

```
if ((Glcritalrm is_greater_than_or_equal_to 4)and
(Glcritalrm is_less_than_or_equal_to 100)) then
begin
   Glcritalrm must_be_greater_than_or_equal_to Glminalrm plus 4
   Glcritalrm must_be_greater_than_or_equal_to Glmajalrm plus 2
end
```

***Retrofit Rules:*** From 5E7 to 5E8, set this variable to the default value of 100. Subsequent retrofits should maintain the value on the switch.

***Default Rules:***

```
default = 100;
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glcritalrm.values: */
```

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```
Glcritalrm is_in {4 thru 100};
```

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# Glcs10p4

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcs10p4 | LRFR | DMbool |

### 1.1 Glcs10p4

Include 10+4 cards in card recognition tables feature activation bit

### 1.2 Description

This parameter is used by an OSPS special feature which, when activated, will allow the TCA to include 10+4 cards in the CAS card recognition tables Glcas3

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcs10p4.values: */

        /* no check */ ;

/* RULE about Glcs10p4: */
if (Glcs10p4 == DBYES) then
begin
/* CAS R3 Global Parameter Must Be Enabled */
        Glcas3 == DBYES;
end
```

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# Glcsmonitr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcsmonitr | FR | DMshort |

### 1.1 Fullname:

Global Office Parameter Glcsmonitr

### 1.2 Description:

The Glcsmonitr global parameter is the timer value in seconds that a Call Screening subscriber is allowed to monitor a call. If the value is '0' then there is no time out.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 60

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 60;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glcsmonitr.values: */

Glcsmonitr is_in {0 thru 180};
```

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# Glcsron

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcsron | FR | DMbool |

### 1.1 Glcsron

Customer Account Services (CAS) Carrier Specific Routing (CSR) Feature Activation Parameter

### 1.2 Description

This global is used to activate/deactivate the processing of CAS CSR calls. It has the following meaning:

```
If the parameter is set to DBNO,

then CAS CSR processing is off.



If the parameter is set to DBYES,

then CAS CSR processing is on.
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glcsron: */

let pcrlist = get_gpd_pcrlist( GPD_OPRT, 2 );

if (Glcsron == DBYES) then
```

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```
begin
        /* CAS R3 Global Parameter Must Be Enabled */
        Glcas3 == DBYES;

        /* Fully Coded Addressing Parameter Must Be Enabled */
        /*
         * Glfcaon is group partitioned, restricted to PSMs and
         * SMs that carry OSPS operator traffic; that is, SMs with
         * grp_type = GPD_OPRT and grp_id = 2.
         */
        if ( pcrlist[current_pcr] == true ) then
        begin
                Glfcaon == DBYES;
        end
end
```

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# Glcst_das

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcst_das | FR | DMda_tree |

### 1.1 Glcst_das

Global Office Parameter Glcst_das

### 1.2 Description

This parameter is used for the Digit Analysis Selector (DAS) of incoming Circuit Switched Trunk (CST) calls for the Circuit Switched Trunk Enhancement (CSTE) feature. The DAS is a number that indicates the digit interpreter tables that will be used in analyzing the incoming digit stream for trunks. The default value 0 indicates no CST DAS is to be used for routing CST calls, then the incoming trunk group DAS will be used to analyze the incoming digits.
SUPPORTED BY: RC, ODA, and ODBE

ODA DEFAULT: 0

RC DEFAULT: 0

RANGE: 0 - 99

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Since CSTE is a secured feature, this parameter must be zero (0), if this feature has not been purchased (#SFID088).

***Retrofit Rules:*** This data was previously stored in global parameter Glsf9dummy. During a retrofit to 5E9, this global parameter must be initialized to the value stored in global parameter Glsf9dummy in 5E8, before Glsf9dummy is reset to a value of 0 in 5E9.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcst_das.values: */
```

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```
Glcst_das is_in {0 thru 99};

/* RULE about Glcst_das: */

/* Verify that the DAS is valid */
if (Glcst_das > 0) then
begin
        find == 1 rc_das in RLrc_das
        where (rc_das.digtree == Glcst_das);
end
```

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# Glcstlri

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcstlri | FP | DMsysid |

### 1.1 Glcstlri

Global Office Parameter Glcstlri

### 1.2 Description

Contains a Route Index (RI) for Terminal Maintenance (TM) Coin Station Test Line (CSTL) calls. This parameter is used only in routing CSTL calls originated from Remote Switching Modules (RSM)s, Optically Remote switching Modules (ORM)s, Two-mile optically Remote switching Modules (TRM)s, and clusters of remote switching modules (MMRSM). Modules that are non-RSM/ non-ORM/non-TRM/non-MMRSM route CSTL calls using fixed routing (CSTL treatment type), and therefore the value of this parameter must be set to the default value of zero (0). The route index value populated in the parameter Glcstlri for RSM/ORM/TRM/MMRSM/ points to a trunk group of one or more outgoing SN107 circuits, all of which must reside within the remote module or cluster.

Each remote module or cluster for which CSTL testing is to be supported must contain its own metallic facilities, including outgoing SN107 CSTL trunk group(s), MMSU, and MTBs.

Each module within a cluster must contain a non-zero value for the parameter Glcstlri (if CSTL testing is to be supported from the module). This value must point to a trunk group within the module or cluster. Failure to populate Glcstlri to a non-zero value will result in metallic routing failure during CSTL calls originated from that module. Population of Glcstlri to a route index value pointing to a trunk group outside of the remote module or cluster will also result in metallic routing failures.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
```

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```
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glcstlri.values: */

        /* no check */ ;
```

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# Glcstposnm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcstposnm | LP | DMposnum |

### 1.1 Glcstposnm

Combined Services Terminal Position Numbers

### 1.2 Description

This parameter indicates the maximum number of operator positions allowed to use the second port of the Combined Services Terminal (CST) feature software. This enforces the site license limiting the number of users of this software. This sets the maximum number of operator positions in RLpos_port which can be marked as supporting the feature software used at this office.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This must appear as a no change field on the RC form and is only changeable by ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard - LP ( CMP ) */

;
```

***Checks:***
```
/* RULE about Glcstposnm.values: */

Glcstposnm on cmp is_in {0 thru 4095};
```

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# Glctact

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glctact | FR | DMbool |

### 1.1 Glctact

Global Office Parameter COT Activation

### 1.2 Description

This parameter is used to indicate LASS COT feature activation level. It indicates whether the feature is to use 1-level (DBNO) or 2-level (DBYES) activation procedures. The parameters Glcttot, Glcttoa, Glcttry and Glctcst only have meaning when this parameter is DBYES.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** ODA must check the Special Feature bit SFID043. if DBYES, map TFOS bit RCTOP033 to this global parameter, else use default.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glctact.values: */

        /* no check */ ;
```

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# Glctbl_cnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glctbl_cnt | FP | DMushort |

### 1.1 Fullname:

Tuple Count of RLapxctbl

### 1.2 Description:

This parameter keeps count of the number of dynamic RLapxctbl tuples initialized on the SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC.

***Retrofit Rules:*** This parameter is recalculated over retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glctbl_cnt values: */

if (current_pcr is_in sm_all) then
begin
Glctbl_cnt is_in { 0 thru 14516};

if (runucv) then
begin
        Glctbl_cnt == (6 * Gltrk_cnt + 9)/10 ;
end
```

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```
end
```

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# Glctcst

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glctcst | FR | DMchar4 |

### 1.1 Glctcst

Global Office Parameter COT Cost

### 1.2 Description

This global parameter is used to indicate the cost of using a COT feature. This cost is voiced to the user when using 2-level activation of a COT feature. This parameter only has meaning when Glctact is DBYES. This parameter is a character field in the form of XX dollars and XX cents, where each X must be in the range of NULL or 0 to 9. If this parameter is entirely NULL, a different announcement will be played when using 2-level activation of a COT feature. There is a difference between a cost of 0000 and a not specified (NULL) cost.

***Type:*** DB4STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** "\0"

***AM Initial Value:*** "\0"

***CMP Initial Value:*** "\0"

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = "\0\0\0\0";
v
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glctcst.values: */

Glctcst ~== "[0-9][0-9][0-9][0-9]" || Glctcst ~== "\0\0\0\0";
```

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# Glctdlvls

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glctdlvls | LRFR | DMuns4 |

### 1.1 Fullname:

Global Office Parameter Glctdlvls

### 1.2 Description:

This parameter specifies the maximum number of call type determination levels allowed for the OSPS flexible ACD call type determination process. This process may be used when the OSPS ACD Expansion feature (98-5E-4668) is active to select an operator call queue, an automated position call queue, or a service ID.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4

***AM Initial Value:*** 4

***CMP Initial Value:*** 4

***RC/ODA Rules:*** This global parameter is controlled by Recent Change View 8.41.

***Retrofit Rules:*** The value of this global parameter should be preserved across a retrofit. When starting a new office with the 5E13 release, the parameter should be set to its default value.

***Default Rules:***
```
default = 4;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glctdlvls.values: */

Glctdlvls is_in {4 thru 7};
```

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# Glctmcs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glctmcs | LP | DMuns13 |

### 1.1 Fullname:

Global Office Parameter Glctmcs

### 1.2 Description:

The Logical Processor to populate according to the following rules is identified by Glpacdq. Other Logical Processors should be populated with the value zero.

This parameter (Call Type Maximum Calls Sum) is initialized by ODA to equal the sum of the RLCTINFO.max_calls. This parameter does not appear on any ODA form.

The Recent Change views 21.22 (RC_CTYP) mapping code will maintain the value of Glctmcs as Recent Changes to this views modify the sum of RLCTINFO.max_calls attributes. The RLCTINFO trigger function will insert additional tuples into RLCQDB such that the number of tuples (reflected in Glcqdbx) is not less than the sum (Glctmcs + Glictmc).

The sum (Glctmcs + Glictmc) is displayed (read only) on the OSPS Office Parameters view 8.9 in the field named 'REQUIRED CQDB' in the 'CALL QUEUE SLOTS' section. Recent Change and ODA are both required to disallow the sum (Glctmcs + Glictmc) from exceeding 5000. Glctmcs is specified in decimal.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is initialized by ODA to equal the sum of the RLCTINFO.max_calls attributes. Recent Change mapping code will maintain the value of Glctmcs.

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard - LP */
        ;
```

***Checks:***

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```
/* RULE about Glctmcs.values: */

let s1 = sum {x in RLctinfo}.max_calls;
Glctmcs on cmp == s1;
Glctmcs on cmp is_in {0 thru 5000};
```

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# Glctone

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glctone | FR | DMpcsignal |

### 1.1 Fullname:

CALEA C-tone.

### 1.2 Description:

Identify what is used for C-tone on CALEA trunks marked as assigned to a case.

This global parameter provides an option for either tone or silence (idle code). The intent is to align what the switch can do with the recent FCC ruling on the J-standard, while keeping a tone option for those customers/collection boxes that want it.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DB_PCNULL

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global parameter is populated from RC view C.1 (CALEA parameters).
This global parameter needs special support for the Large Terminal Growth (LTG) process. As per requirements ODA is not supporting an equivalent ODA form.
Whenever adding or deleting a population rule for CALEA that has LTG impact, you must contact the ODA Support Group for LTG to modify the CALEA #include file.

***Retrofit Rules:*** Retrofitting from 5e13.1 to 5e14.1 requires no evolution of this global parameter, the default value will be used by DBGEN. For all future generics the value of this parameter will be preserved over a retrofit.

***Default Rules:***
```
default = DB_PCNULL;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glctone: */

Glctone is_in { DB_PCNULL,PCHIGHTN };
```

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# Glctstcall

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glctstcall | FP | DMtstcall |

### 1.1 Glctstcall

Global Office Parameter Glctstcall

### 1.2 Description

This parameter specifies the Automated Coin Toll Service (ACTS) coin station test call number.

A switch person at the coin station can initiate the testing of that station by dialing a '0+' call with this string of digits as the called number.

***Type:*** DB8STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** "9591230"

***AM Initial Value:*** "NULL"

***CMP Initial Value:*** "NULL"

***RC/ODA Rules:*** POPULATION: GROUP_PARTITIONED This parameter is group partitioned with grp_type=GPD_OPRT and grp_id=3. That is, it exists on all SMs with operator traffic trunks, and all loaded SMs. An SM that carries operator traffic trunks is one in which one or more tuples in rIFC_PORTTYPE have the attribute servclass set to FC_ISPOPR.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = "9591230";
```

***Distribution Rules:***
```
        pcrlist = get_gpd_pcrlist (GPD_OPRT,3);
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

        /* RULE about Glctstcall.values: */
```

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```
        Glctstcall == "" ||
        Glctstcall ~== "[0-9]*";

        /* RULE about Glctstcall: */

/* When Glctstcall value is empty then RdStar puts a default value "9591230"
 * which causes the failure of the next line check, therefore, the check
 * "&& ( Glctstcall != "9591230" )", is added.
 */
        if (( Glctstcall != "" ) && ( Glctstcall != "9591230" )) then
        begin
                find > 0 lpconf in RLlpconfig
                where (lpconf.smconfig == Glconfigname &&
                    lpconf.package is_in {GLOPSMDAAC, GLOPSMAUTO, GLOPSMOT});
        end
end
```

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# Glcttoa

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcttoa | FR | DMuns3 |

### 1.1 Glcttoa

Global Office Parameter COT Time-Out Allow

### 1.2 Description

This parameter is used to indicate the number of times the user will be allowed to time out following the interactive recorded announcement prompt when using 2-level activation of a COT feature. This parameter only has meaning when Glctact is DBYES.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 3

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 3;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcttoa.values: */

Glcttoa is_in {1 thru 5};
```

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# Glcttoop

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcttoop | FR | DMbool |

### 1.1 Glcttoop

Global Office Parameter Glcttoop

### 1.2 Description

This parameter indicates whether the caller is routed to an operator when a contract table check violation is detected by call processing.

The contract table check is performed when the caller uses an AT&T CAS calling card on a LEC carried call.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcttoop.values: */

        /* no check */ ;
```

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# Glcttot

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcttot | FR | DMuns4 |

### 1.1 Glcttot

Global Office Parameter COT Time-Out Time

### 1.2 Description

This parameter is used to indicate the amount of time, in seconds, in which the user must respond to the interactive recorded announcement prompt when using 2-level activation of a COT feature. This parameter only has meaning when Glctact is DBYES.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 7

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 7;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcttot.values: */

       Glcttot is_in {1 thru 15};
```

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# Glcttry

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcttry | FR | DMuns3 |

### 1.1 Glcttry

Global Office Parameter COT Retries

### 1.2 Description

This parameter is used to indicate the number of times the user will be allowed to enter an incorrect digit (a digit other than a '1') in response to the interactive recorded announcement prompt when using 2-level activation of a COT feature. This parameter only has meaning when Glctact is DBYES.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 3

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 3;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcttry.values: */

Glcttry is_in {1 thru 5};
```

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# Glcttu

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcttu | LR | DMbool |

### 1.1 Glcttu

Global Office Parameter Glcttu

### 1.2 Description

Indicates whether the office has a CTTU data link. DBYES if office has a DTTU data link. DBNO if office does not have a CTTU data link.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcttu.values: */

        /* no check */ ;
```

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# Glcustcoll

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcustcoll | FR | DMbool |

### 1.1 Fullname:

Global Office Parameter for IBNS Call Blocking Collect Acceptance Indicator

### 1.2 Description:

This parameter specifies whether a customer will allow a collect call to be billed on an IBNS R2 call that is blocked with cuckoo tone.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glcustcoll values: */
```

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# Glcutover

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcutover | LRFR | DMbool |

### 1.1 Glcutover

Global Office Parameter Glcutover

### 1.2 Description

The CO activity of the office. Set to DBYES when the cutover odd relations (RLIMCOSTAT, RLTHCOSTAT) have been built. Set to DBYES when a cutover or cutback is imminent. During normal office operation, Glcutover is set to DBNO. It is important to note that Glcutover should be set to DBNO during normal office operations since:

(1) MCC indicators will display that the office is in a cutover/cutback,

(2) initialization will take longer,

(3) rerouted calls will take longer to route,

(4) ports migrating in-service via Port STATUS activity will take longer.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcutover.values: */

Glcutover is_in {DBYES, DBNO};
```

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# Glcv_fb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcv_fb | FR | DMbool |

### 1.1 Glcv_fb

Global Office Parameter Glcv_fb

### 1.2 Description

Glcv_fb is the call vector feature bit which is used to enable or disable the call vectoring feature on the switch. When the value of Glcv_fb is DBNO, a C-ACD call is given standard non-vectoring treatment. When the value of Glcv_fb is DBYES a C-ACD call is given call vectoring treatment.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glcv_fb: */

if ( Glcv_fb == DBYES ) then
begin
        Gl_cacd == DBYES;
end
```

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# Glcv_state

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcv_state | FP | DMushort |

### 1.1 Fullname:

Count of RLcv_state tuples present in an SM.

### 1.2 Description:

The Glcv_state global parameter contains an SM's current rlCV_STATE tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions when call vectoring is assigned. It is also updated by trigger functions as lines and trunks are assigned and when rlCQDB tuples are inserted. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
"env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

        /*RULE about Glcv_state.values:

        /* Glcv_state is_in {0 thru (DBQNCV_STA - DBSFCV_STA)};
```

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```
        Glcv_state is_in {0 thru (16383 - 0)};

        /*RULE about Glcv_state: */

if (runucv) then
begin
        if (Glcv_fb == DBNO || Gl_cacd == DBNO) then
        begin
                Glcv_state == 0;
        end
        else
        begin
                /*
                 *  Fraction of trunk calls which are
                 *  incoming and go to an ACD
                 */
                let FRTRKACD = 2;

                /*  Number of seconds that an ACD call is queued
                let HTACDQU =180;

                /*  ACD calls/trunk/hour  */
                let TRK_CALL_RATE = 16;

                /*
                 *  Compute the number of rlCV_STATE tuples
                 *  required for incoming trunk calls
                 *  terminating to the ACD.
                 */
                let MUCVSTOT = ((Gloacdop / FRTRKACD) *
                        TRK_CALL_RATE * HTACDQU) / 3600;

                let NCVSTOT = MUCVSTOT + (5 * (sqrt(MUCVSTOT)));

                /*  Determine the minimum number of tuples
                 * required.  */
                let CV_STATE = min {NCVSTOT, Glcqdbx};

            /*  if (CV_STATE + Glicv_stat <=
             *  (DBQNCV_STA - DBSFCV_STA)) then  */
                if (CV_STATE + Glicv_stat <= (16383 - 0)) then
                begin
                        Glcv_state >= CV_STATE + Glicv_stat;
                end
                else
                begin
            /*          Glcv_state == DBQNCV_STA - DBSFCV_STA;
                        Glcv_state == 16383 - 0;
                end
        end
end
end
```

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# Glcvaga

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcvaga | FR | DMuns8 |

### 1.1 Glcvaga

Global Office Parameter Glcvaga

### 1.2 Description

This global specifies the maximum number of GOTOAGE/GOTOQUE/GOTOSTA/GOTOAVL steps that can be processed for a given call. When this limit is reached for a given call, vector processing is stopped. If the call has been previously placed into a queue, the call remains in that queue and any currently active delay treatment (MUSIC/RING/QUIET) continues. If the call has not been previously queued, the call is given reorder.

When the global parameter contains zero (0), no limit is enforced.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 4;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcvaga.values: */

Glcvaga is_in {0 thru 255};
```

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# Glcvagt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcvagt | FR | DMuns8 |

### 1.1 Glcvagt

Global Office Parameter Glcvagt

### 1.2 Description

This global specifies the maximum number of GOTOTOD/GOTODOW steps that can be processed for a given call. When this limit is reached for a given call, vector processing is stopped. If the call has been previously placed into a queue, the call remains in that queue and any currently active delay treatment (MUSIC/RING/QUIET) continues. If the call has not been previously queued, the call is given reorder.

When the global parameter contains zero (0), no limit is enforced.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 10;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcvagt.values: */

Glcvagt is_in {0 thru 255};
```

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# Glcvagv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcvagv | FR | DMuns8 |

### 1.1 Glcvagv

Global Office Parameter Glcvagv

### 1.2 Description

This global specifies the maximum number of intervector GOTOs (i.e. any conditional or unconditional GOTOs that specify a different vector) that can be processed for a given call. When this limit is reached for a given call, vector processing is stopped. If the call has been previously placed into a queue, the call remains in that queue and any currently active delay treatment (MUSIC/RING/QUIET) continues. If the call has not been previously queued, the call is given reorder.

When the global parameter contains zero (0), no limit is enforced.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 20;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcvagv.values: */

Glcvagv is_in {0 thru 255};
```

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# Glcvand

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcvand | FR | DMuns8 |

### 1.1 Glcvand

Global Office Parameter Glcvand

### 1.2 Description

This global specifies the maximum number of MUSIC/ANNOUNC steps that can be processed for a given call. When this limit is reached for a given call, vector processing is stopped. If the call has been previously placed into a queue, the call remains in that queue and any currently active delay treatment (MUSIC/RING/QUIET) continues. If the call has not been previously queued, the call is given reorder.

When the global parameter contains zero (0), no limit is enforced.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 10;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcvand.values: */

Glcvand is_in {0 thru 255};
```

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# Glcvanq

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcvanq | FR | DMuns8 |

### 1.1 Glcvanq

Global Office Parameter Glcvanq

### 1.2 Description

Glcvanq is the maximum number of seconds an announcement can last when a call routed to that announcement has not been previously placed into a ACD queue. The purpose of this limit is to detect when what should have been the Route Index (RI) for an announcement is mistakenly used for a music source. The result would be that any ANNOUNC step using this RI will never end. If a call has been previously queued, this is of little concern. However when the call has not been queued, an error of this sort can tie up all vectoring resources (such as, RLcv_state tuples) with non-productive calls.

When the global parameter contains zero (0), no limit is enforced.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 120

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 120;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcvanq.values: */

Glcvanq is_in {0 thru 255};
```

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# Glcvaqt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcvaqt | FR | DMuns8 |

### 1.1 Glcvaqt

Global Office Parameter Glcvaqt

### 1.2 Description

This global specifies the maximum number of QUEUE steps that can be processed for a given call. When this limit is reached for a given call, vector processing is stopped. If the call has been previously placed into a queue, the call remains in that queue and any currently active delay treatment (MUSIC/RING/QUIET) continues. If the call has not been previously queued, the call is given reorder.

When the global parameter contains zero (0), no limit is enforced.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 4;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcvaqt.values: */

Glcvaqt is_in {0 thru 255};
```

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# Glcvpau

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcvpau | FR | DMuns8 |

### 1.1 Glcvpau

Global Office Parameter Glcvpau

### 1.2 Description

Glcvpau is the length of time (in seconds) that a call will be paused if any of the resettable limits (Glcvrqt, Glcvrga, Glcvrgv, Glcvrgt or Glcvrnd) are reached. The call is paused in order to prevent it from consuming more than a certain amount of real time in a given period. This global must have a non-zero value greater than or equal to 5.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 5

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 5;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcvpau.values: */

Glcvpau is_in {5 thru 255};
```

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# Glcvrga

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcvrga | FR | DMuns8 |

### 1.1 Glcvrga

Global Office Parameter Glcvrga

### 1.2 Description

This global specifies the maximum number of GOTOAGE/GOTOQUE/GOTOAVL/GOTOSTA steps that can be processed without pausing. The counter used to count the steps is reset whenever an ANNOUNC, MUSIC, RING, or QUIET step is successfully processed. If the counter reaches the limit specified by this global, vector processing is paused for the number of seconds defined by Glcvpau and all resettable limit counters are cleared. If the call has been previously placed into a queue, the pause will end early if an agent becomes available during the pause. Any currently active delay treatment (MUSIC/RING/QUIET) continues during the pause. If no delay treatment is active, the caller will hear silence during the pause.

When the global parameter contains zero (0), no limit is enforced.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 2;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcvrga.values: */

Glcvrga is_in {0 thru 255};
```

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# Glcvrgt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcvrgt | FR | DMuns8 |

### 1.1 Glcvrgt

Global Office Parameter Glcvrgt

### 1.2 Description

This global specifies the maximum number of GOTOTOD/GOTODOW steps that can be processed without pausing. The counter used to count the steps is reset whenever an ANNOUNC, MUSIC, RING or QUIET step is successfully processed. If the counter reaches the limit specified by this global, vector processing is paused for the number of seconds defined by Glcvpau and all resettable limit counters are cleared. If the call has been previously placed into a queue, the pause will end early if an agent becomes available during the pause. Any currently active delay treatment (MUSIC/RING/QUIET) continues during the pause. If no delay treatment is active, the caller will hear silence during the pause.

When the global parameter contains zero (0), no limit is enforced.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 6

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 6;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glcvrgt.values: */

Glcvrgt is_in {0 thru 255};
```

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# Glcvrgv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcvrgv | FR | DMuns8 |

### 1.1 Glcvrgv

Global Office Parameter Glcvrgv

### 1.2 Description

This global specifies the maximum number of intervector GOTOs that can be processed without pausing. The counter used to count the steps is reset whenever an ANNOUNC, MUSIC, RING or QUIET step is successfully processed. If the counter reaches the limit specified by this global, vector processing is paused for the number of seconds defined by Glcvpau and all resettable limit counters are cleared. If the call has been previously placed into a queue, the pause will end early if an agent becomes available during the pause. Any currently active delay treatment (MUSIC/RING/QUIET) continues during the pause. If no delay treatment is active, the caller will hear silence during the pause.

When the global parameter contains zero (0), no limit is enforced.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 2;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcvrgv.values: */

Glcvrgv is_in {0 thru 255};
```

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# Glcvrnd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcvrnd | FR | DMuns8 |

### 1.1 Glcvrnd

Global Office Parameter Glcvrnd

### 1.2 Description

This global specifies the maximum number of MUSIC/ANNOUNC steps that can be processed without pausing. The counter used to count the steps is reset whenever an ANNOUNC, MUSIC, RING or QUIET step is successfully processed (thus only MUSIC and ANNOUNC steps that fail to route to the specified port will leave the counter non-zero). If the counter reaches the limit specified by this global, vector processing is paused for the number of seconds defined by Glcvpau and all resettable limit counters are cleared. If the call has been previously placed into a queue, the pause will end early if an agent becomes available during the pause. Any currently active delay treatment (MUSIC/RING/QUIET) continues during the pause. If no delay treatment is active, the caller will hear silence during the pause.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcvrnd.values: */

        /* no check */ ;
```

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# Glcvrqt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcvrqt | FR | DMuns8 |

### 1.1 Glcvrqt

Global Office Parameter Glcvrqt

### 1.2 Description

This global specifies the maximum number of QUEUE steps that can be processed without pausing. The counter used to count QUEUE steps is reset whenever an ANNOUNC, MUSIC, RING or QUIET step is successfully processed. If the counter reaches the limit specified by this global, vector processing is paused for the number of seconds defined by Glcvpau and all resettable limit counters are cleared. If the call has been previously placed into a queue, the pause will end early if an agent becomes available during the pause. Any currently active delay treatment (MUSIC/RING/QUIET) continues during the pause. If no delay treatment is active, the caller will hear silence during the pause.

When the global parameter contains zero (0), no limit is enforced.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 1;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcvrqt.values: */

Glcvrqt is_in {0 thru 255};
```

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# Glcvtlv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcvtlv | FR | DMuns8 |

### 1.1 Glcvtlv

Global Office Parameter Glcvtlv

### 1.2 Description

Glcvtlv is the total number of vector steps a call can go through while waiting for an available agent. Its purpose is to detect and terminate endless loops in a C-ACD customer's vector 'programs'.

When the global parameter contains zero (0), no limit is enforced.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 100

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 100;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcvtlv.values: */

Glcvtlv is_in {0 thru 255};
```

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# Glcvtmn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcvtmn | FR | DMuns8 |

### 1.1 Glcvtmn

Global Office Parameter Glcvtmn

### 1.2 Description

Glcvtmn is a limit (given in seconds) on the total time a call can be vectored without being placed on a queue. The purpose of this parameter is to guarantee that a call cannot be given vectoring treatment (such as, connected to announcements and music) indefinitely if it has not been placed into a queue. It is needed in commercial ACD applications where callers expect to wait for a long period of time (hours) to prevent a vectoring error from tying up global vectoring resources (such as, RLcv_state tuples) with unproductive calls (Without this limit, these calls may only be cleared from the switch by initializing the SMs).

When the global parameter contains zero (0), no limit is enforced.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 120

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 120;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glcvtmn.values: */

Glcvtmn is_in {0 thru 255};
```

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# Glcwalert

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcwalert | FR | DMcwdalert |

### 1.1 Glcwalert

Global Office Parameter Call Waiting Deluxe Alerting Type

### 1.2 Description

This global parameter is used by the call waiting deluxe special feature and indicates the alerting type. Glcwalert can be set to the following values:

```
CWD  - SAS-only with non-ADSI per-call options allowed

CWD1 - SAS + CAS with non-ADSI per-call options restricted

CWD2 - SAS + CAS with non-ADSI allowed
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** CWD2

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = CWD2;
```

***Distribution Rules:***

```
/* standard - FR ( SM ) */
```

***Checks:***

```
/* RULE about Glcwalert.values: */

Glcwalert is_in {CWD, CWD1, CWD2};
```

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# Glcwamatim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcwamatim | FR | DMshort |

### 1.1 Glcwamatim

Global Office Parameter Call Waiting Deluxe AMA Time

### 1.2 Description

This global parameter is used by the Call Waiting Deluxe Special Feature and indicates the close of the AMA aggregation interval which will be selectable on the hour. When this parameter is updated, the Recent Change occurs immediately but the effect of the update will take place at midnight. The default shall be 0 which is considered midnight.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard - FR ( SM ) */
```

***Checks:***
```
/* RULE about Glcwamatim.values: */

Glcwamatim is_in {0 thru 23};
```

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# Glcwconf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcwconf | FR | DMcwdconf |

### 1.1 Glcwconf

Global Office Parameter Call Waiting Deluxe Usage Sensitive Conference Option

### 1.2 Description

This global parameter is used by the call waiting deluxe special feature and indicates whether or not usage sensitive AMA for CWD conferencing should be provided. Glcwconf can be set to the following values:

```
USGSEN_NO  - Do not provide usage sensitive AMA for CWD

             conferencing on this line

USGSEN_YES - Provide usage sensitive AMA for CWD conferencing on

             this line
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** USGSEN_NO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = USGSEN_NO;
```

***Distribution Rules:***

```
/* standard - FR ( SM ) */
```

***Checks:***

```
/* RULE about Glcwconf.values: */

Glcwconf is_in {USGSEN_NO, USGSEN_YES};
```

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# Glcwdefann

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcwdefann | FR | DMbool |

### 1.1 Glcwdefann

Global Office Parameter Call Waiting Deluxe Option For Default Announcement

### 1.2 Description

This global parameter is used by the call waiting deluxe special feature and indicates whether or not answer supervision should be provided for the default announcement. Glcwdefann can be set to the following values:

```
DBYES - Provide answer supervision

DBNO  - Do not provide answer supervision
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBYES;
```

***Distribution Rules:***

```
/* standard - FR ( SM ) */
```

***Checks:***

```
/* RULE about Glcwdefann.values: */

Glcwdefann is_in {DBNO, DBYES};
```

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# Glcwdefopt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcwdefopt | FR | DMcwdopt |

### 1.1 Glcwdefopt

Global Office Parameter Call Waiting Deluxe Default Option

### 1.2 Description

This global parameter is used by the call waiting deluxe special feature and indicates the default option treatment to be given to the call waiting party on time out. Glcwdefopt can be set to the following values:

```
CONTRING - Continue providing waiting party audible ringing on time out

CALLFWD  - Forward waiting call to CFDA destination on time out

DEFANNC  - Connect waiting call to default announcement on time out
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** CALLFWD

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = CALLFWD;
```

***Distribution Rules:***

```
/* standard - FR ( SM ) */
```

***Checks:***

```
/* RULE about Glcwdefopt.values: */

Glcwdefopt is_in {CONTRING, CALLFWD, DEFANNC};
```

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# Glcwdeftim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcwdeftim | FR | DMlong |

### 1.1 Glcwdeftim

Global Office Parameter Call Waiting Deluxe Default Timer

### 1.2 Description

This global parameter is used by the call waiting deluxe special feature and indicates the amount of time the switch waits before providing the CWD default treatment, if the CWD customer has not selected a CWD per-call option or the waited party has not disconnected. Glcwdeftim can be set to a value from 0 to 110 seconds in increments of 1 second and is stored as milliseconds.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 15000

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 15000;
```

***Distribution Rules:***
```
/* standard - FR ( SM ) */
```

***Checks:***
```
/* RULE about Glcwdeftim.values: */

Glcwdeftim is_in {0 thru 110000};
Glcwdeftim%1000 == 0;
```

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# Glcwfltim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcwfltim | FR | DMshort |

### 1.1 Glcwfltim

Global Office Parameter Call Waiting Deluxe Flash Timer

### 1.2 Description

This global parameter is used by the call waiting deluxe special feature and indicates the maximum amount of time the switch mutes the voice path after it detects a flash signal from a non-ADSI CPE while a call is on hold. This timer starts after a flash is detected and stops when a dual tone multi-frequency (DTMF) signal is detected. Glcwfltim can be set to a value from 1 to 8 seconds in increments of .5 seconds and is stored as milliseconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1500

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 1500;
```

***Distribution Rules:***
```
/* standard - FR ( SM ) */
```

***Checks:***
```
/* RULE about Glcwfltim.values: */

Glcwfltim is_in {1000 thru 8000};

Glcwfltim%500 == 0;
```

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# Glcwhldann

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcwhldann | FR | DMcwdannc |

### 1.1 Glcwhldann

Global Office Parameter Call Waiting Deluxe Option For Hold Announcement

### 1.2 Description

This global parameter is used by the call waiting deluxe special feature and indicates whether or not answer supervision should be provided at the beginning or at the end of the HOLD announcement. Glcwhldann can be set to the following values:

```
BEG_OF_ANNC - Provide answer supervision at the beginning of

              the HOLD announcement

END_OF_ANNC - Provide answer supervision at the end of

              the HOLD announcement
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** BEG_OF_ANNC

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = BEG_OF_ANNC;
```

***Distribution Rules:***

```
/* standard - FR ( SM ) */
```

***Checks:***

```
/* RULE about Glcwhldann.values: */

Glcwhldann is_in {BEG_OF_ANNC, END_OF_ANNC};
```

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# Glcwhldtim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcwhldtim | FR | DMlong |

### 1.1 Glcwhldtim

Global Office Parameter Call Waiting Deluxe Hold Timer

### 1.2 Description

This global parameter is used by the call waiting deluxe special feature once the hold announcement is provided. This timer indicates the interval from when a held party is connected to a silent termination until it is connected or re-connected to a reminder announcement. Glcwhldtim can be set to a value from 0 to 120 seconds in increments of 1 second and is stored as milliseconds.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 60000

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 60000;
```

***Distribution Rules:***
```
/* standard - FR ( SM ) */
```

***Checks:***
```
/* RULE about Glcwhldtim.values: */

Glcwhldtim is_in {0 thru 120000};
Glcwhldtim%1000 == 0;
```

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# Glcwoptann

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcwoptann | FR | DMbool |

### 1.1 Glcwoptann

Global Office Parameter Call Waiting Deluxe Option for Per-Call Announcement

### 1.2 Description

This global parameter is used by the call waiting deluxe special feature and indicates whether or not answer supervision should be provided for the per-call ANNOUNCEMENT option. Glcwoptann can be set to the following values:

```
DBYES - Provide answer supervision

DBNO  - Do not provide answer supervision
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBYES;
```

***Distribution Rules:***

```
/* standard - FR ( SM ) */
```

***Checks:***

```
/* RULE about Glcwoptann.values: */

Glcwoptann is_in {DBNO, DBYES};
```

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# Glcyctm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glcyctm | FP | DMuchar |

### 1.1 Glcyctm

Global office parameter Glcyctm

### 1.2 Description

This parameter defines the country dependent cycle time used for cyclic retesting of abnormally blocked E & M trunks. This cycle time is the cycle time of trying to recover an abnormally blocked trunk by sending the clear forward signal. In Saudi Arabia this cycle time is 1 minute, ie. every 1 minute a clear forward will be sent and a release guard expected. If the release guard is seen then the trunk becomes free. Used by Export.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1

***AM Initial Value:*** 1

***CMP Initial Value:*** 1

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glcyctm.values: */
Glcyctm is_in {1 thru 5};

end
```

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## 3.15 Gld

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# Gldabrand

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldabrand | FP | DMbool |

### 1.1 Fullname:

Global Office Parameter Gldabrand

### 1.2 Description:

This parameter indicates whether a branding phrase should be used for a directory assistance call.

```
DBYES means that a branding phrase is to be used.
DBNO means that no branding phrase is to be used.
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** POPULATION: GROUP_PARTITIONED This parameter is group partitioned with grp_type=GPD_OPRT and grp_id=3. That is, it exists on all SMs with operator traffic trunks, and all loaded SMs. An SM that carries operator traffic trunks is one in which one or more tuples in rlFC_PORTTYPE have the attribute servclass set to FC_ISPOPR.

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***

```
default = DBYES;
```

***Distribution Rules:***

```
        pcrlist = get_gpd_pcrlist (GPD_OPRT,3);
```

***Import:***

```
PLgpd_defs.R
```

***Checks:***

```
/* RULE about Gldabrand.values: */

        /* no check */ ;

/* RULE about Gldabrand: */
```

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```
if (current_pcr is_in { 1 thru 192 }) then
begin
        if (Gldabrand == DBYES) then
        begin
                find > 0 lpconf in RLlpconfig
                where (lpconf.smconfig == Glconfigname &&
                lpconf.package is_in {GLOPSMDAAC, GLOPSMAUTO, GLOPSMOT});
        end
end
```

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# Gldaccr2

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldaccr2 | FP | DMbool |

### 1.1 Gldaccr2

Directory Assistance Call Completion Release 2

### 1.2 Description

This indicates whether Directory Assistance Call Completion (DACC) release 2 is active. This feature is a subset of Listing Services and includes entry of the back number and charging information by the Listing Services (LS) operator for LS Call Completion (LSCC). Gllsfw

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OPRT,3);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gldaccr2.values: */

        /* no check */ ;

/* RULE about Gldaccr2: */
```

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```
/*
* LSCC R2 cannot be active unless LSCC is active.
*/
if (Gldaccr2 == DBYES) then
begin
        Gllsfw != 0;   /* 9.1 */
end

end
```

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# Gldadatlink

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldadatlink | FP | DMbool |

### 1.1 Gldadatlink

Global Office Parameter Gldadatlink

### 1.2 Description

This parameter indicates whether a DAS/C vendor may have one or more data links on this SM. These data links must exist in the FC_PORTTYP relation with a servclass of FC_DASC. These data links cannot be operational until Gldadatlink is set to DBYES. This parameter must be DBNO unless this is a loaded SM. This parameter is set to DBYES by RC when the first DASC data link is grown on this SM, and set to DBNO by RC when the last DASC data link is removed from this SM. It does not appear on a Recent Change view.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA must set this parameter to DBYES if any tuple in the FC_PORTTYP relation has a servclass of FC_DASC, and to DBNO otherwise.

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gldadatlink.values: */

        /* no check */ ;

/* RULE about Gldadatlink: */

if (current_pcr is_in { 1 thru 192 }) then
begin
```

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```
        if (Gldadatlink == DBYES) then
        begin
                find == 1 lpconf in RLlpconfig
                where (lpconf.smconfig == Glconfigname &&
                        lpconf.package == GLOPSMDAAC);
        end
end
```

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# Gldalb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldalb | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Gldalb

### 1.2 Description:

The Gldalb global parameter contains an SM's current rlDALB tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be increased by trigger functions when ISDN lines are assigned, DNs are shared or B channels are assigned. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
"env.R
```

***Checks:***
```
        function func() returning int
        begin
                adjfactor = 100;
                scafactor = 10;
                sdnfactor = 1 + (2/10);
                a = 0;
```

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```
                dalb = 0;

                dsls = Gldslcnt - Glacdp_cnt - Glpri_cnt +
                       Glmdslcnt;

                if ( dsls < 0 )
                then
                begin
                        dsls = 0;
                end

                mu = (((4 * dsls * 180) +
                       (30 * Glacdp_cnt * 90) + 3599) / 3600) +
                     ((adjfactor * (dsls + Glacdp_cnt) +
                       (scafactor + (dsls + Glacdp_cnt) - 1)) /
                      (scafactor + (dsls + Glacdp_cnt)));

                sigma = sqrt( mu );

                if ((Gltermcnt * (Glsdnnum + Gllsdnnum)) == 0)
                then
                begin
                        a = 1;
                end
                else
                begin
                a = (((Glis_line - (Glsdnnum + Gllsdnnum) +
                     ((Glsdntrm * 120 + 99) / 100)) +
                     (Glis_line -1)) / Glis_line);
                end

                dalb = (a * ((5 * sigma) + mu)) + Glbchncnt +
                                                  Glsvc_cnt;
                return dalb;
        end

if (current_pcr is_in sm_all) then
begin
        Gldalb is_in {0 thru (32000 - 1)};

/* RULE about Gldalb.values: */

if (runucv) then
begin
if (Gldalb != 0) then
begin
        find == 1 lpconf in RLlpconfig
        where ((lpconf.smconfig == Glconfigname) &&
               (lpconf.package == GLISDNBRCS))
        when_found
        begin
/*              Gldalb is_in {1 thru (DBQNDALB - DBSFDALB)};  */
                Gldalb is_in {1 thru (32000 - 1)};
        end
```

```
end


/* RULE about Gldalb: */

if (count({lpconf in RLlpconfig
           where ((lpconf.smconfig == Glconfigname) &&
                  (lpconf.package == GLISDNBRCS)) }) == 0) then
begin
        Gldalb == 0;
end
else
begin
        let DALB = func();

/*      if (DALB + Glidalb <= (DBQNDALB - DBSFDALB)) then */
        if (DALB + Glidalb <= (32000 - 0)) then
        begin
                Gldalb >= DALB + Glidalb;
        end
        else
        begin
        /*      Gldalb == DBQNDALB - DBSFDALB;  */
                Gldalb == 32000 - 0;
        end
end
end
end
```

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# Gldann_int

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldann_int | FP | DMuchar |

### 1.1 Gldann_int

ACCS for CCC delay announcement eligibility interval

### 1.2 Description

This parameter is used by the ACCS for CCC feature to store the delay announcement eligibility interval, in tenths of seconds.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ODA: For new offices, this global should be set to 60 on SMs where it is populated.

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Though this global parameter will be treated as

* group partitioned, since FG is not a valid distribution

* type for global parameters, FP will be used.  FP global

* parameters exist on all SMs, thus the following

* distribution rules:

*

* Please note that Gldann_int's group partitioning will be

* enforced in the checks section.
```

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```
for pcr in sm_all

pcrlist[pcr] = true;
```

***Import:***

```
"PLgpd_defs.R"
```

***Checks:***

```
/* RULE about Gldann_int.values: */

let pcrlist = get_gpd_pcrlist (GPD_OSPS,4);

if (current_pcr is_in sm_all) then
begin
        if ( pcrlist[current_pcr] == true ) then
                Gldann_int is_in {0 thru 160};
        else
                Gldann_int == 0;
end
```

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# Gldaraf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldaraf | FR | DMushort |

### 1.1 Gldaraf

Number of RAF members in DA announcement logical service group.

### 1.2 Description

This global is used to keep a count of the number of members of the DA Logical Service Group (LSG) which are from RAFs, as opposed to from SASs. It is updated every time a RAF member is added or removed from the DA LSG.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global is read-only on RC/V view 5.1. It is updated internally from RC/V view 5.5 every time a member is added or removed from the LSG.

***Retrofit Rules:*** none

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
        for rt_fixedri in RLrt_fixedri
            where (rt_fixedri.ritype == RT_OSPSDA)
        begin
                find == 1 rt_routing in RLrt_routing
                    where (rt_fixedri.ri == rt_routing.route_x)
                when_found
                begin
                        find == 1 rt_trkg in RLrt_trkg
                            where (rt_trkg.grpnum == rt_routing.portgrp.grpnum)
                        when_found
sas_92_1:                   Gldaraf == rt_trkg.raf_mbrs;
                end
        end
```

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# Gldasc_vendor

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldasc_vendor | FP | DMdavendor |

### 1.1 Fullname:

Global Office Parameter Gldasc_vendor

### 1.2 Description:

This parameter indicates the DAS/C vendor supplying directory assistance information to OSPS operators. Its range is given by the enum values in db/DMdavendor.h

This parameter must be FCDAS_NONE unless there is at least one loaded SM in the office.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** FCDAS_NONE

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = FCDAS_NONE;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R,
smconf.R
```

***Checks:***
```
/* RULE about Gldasc_vendor.values: */

        /* no check */ ;

/* RULE about Gldasc_vendor: */
```

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```
if (current_pcr is_in sm_all) then
begin
        if (Gldasc_vendor != FCDAS_NONE) then
        begin
                /* there exists at least one loaded SM in the office */
                if (runucv) then
                PLSMCONF(GLOPSMDAAC) == true;
        end
end
```

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# Gldascdls

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldascdls | FP | DMuns2 |

### 1.1 Gldascdls

Global Office Parameter Gldascdls

### 1.2 Description

This parameter specifies the quantity of Directory Assistance System Computer (DAS/C) data link DSLs that are connected to the SM. This parameter is populated by ODA and RC but does not appear on any view. Each SM's parameter is set to the number of RLDLDSL tuples in that SM with the servclass attribute set to FC_DASC.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gldascdls.values: */

Gldascdls is_in {0 thru 2};

end
```

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# Gldatat_chk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldatat_chk | FP | DMbool |

### 1.1 Gldatat_chk

Global Office Parameter Gldatat_chk

### 1.2 Description

Determine if it is necessary to make the data terminal check for incoming trunk terminating calls. This parameter must be populated to DBYES in a country that uses on A party category of 'data transmission' and is able to send the A party category end to end, such as the value should be DBYES for SA since 'data transmission' is used and the address signaling on all trunks is MFC. The value should be DBNO for CO, KO and NL since the 'data transmission' category is not used. The range is enumerated. Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gldatat_chk.values: */

        /* no check */ ;
```

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# Glday1

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glday1 | LRFP | DMshort |

### 1.1 Glday1

Global Office Parameter Glday1

### 1.2 Description

Glday1 is a non-recent-changeable global parameter used to specify which day of the week is designated 'day 1'. Domestically 'day 1' is always Monday. Export needs to supply this parameter because not all of the countries have their 'day 1' as Monday (that is, Saudi Arabia). Used by Export.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glday1.values: */

Glday1 is_in {0 thru 6};
```

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# Gldaylight

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldaylight | LRFR | DMbool |

### 1.1 Gldaylight

Global Office Parameter Gldaylight

### 1.2 Description

Does this office observe daylight savings time? No population rules available.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Gldaylight.values: */

        /* no check */ ;
```

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# Gldbcnd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldbcnd | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter rlDBCND Tuple Count.

### 1.2 Description:

The Gldbcnd global parameter contains an SM's current rlDBCND tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***NOTE:*** The algorithm in this file must be the same as the algorithm in fc/FCtrigint/FCdbcndcnt.c which is the init code for Gldbcnd. So if the algorithm in this file changes verify that it is consistent with the init code algorithm.

ODA has agreed to make the calculation changes in 5e10 even though the changes were made to this file in 5e11.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as lines are assigned. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
"env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
```

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```
begin

/* RULE about Gldbcnd.values: */

   Gldbcnd is_in {0 thru 4095};

end

/* RULE about Gldbcnd: */

function func() returning int
begin
        call_rate = 5;
        fraction_of_mca_plus1 = 1 + (3/10);
        frt = 1;
        hold_time_analog = 24;
        hold_time_isdn = 210;

        mu = (3599 + (5 * (((Glalinecnt + Glshanal) *24) +
                    (Glmaxterm * 210 * 130 / 100)))) / 3600;
        mu = mu + (Gltrkcnt / 10);
        sigma = sqrt (mu);
        dbcnd = mu + (5 * sigma);
        return dbcnd;
end

if (runucv) then
begin
if (current_pcr is_in sm_all) then
begin
        let DBCND = func();

/*      if (DBCND + Glidbcnd <= (DBQNDBCND - DBSFDBCND)) then */
        if (DBCND + Glidbcnd <= (32000 - 0)) then
        begin
                Gldbcnd >= DBCND + Glidbcnd;
        end
        else
        begin
        /*      Gldbcnd == DBQNDBCND - DBSFDBCND;       */
                Gldbcnd == 32000 - 0;
        end
end
end
```

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# Gldclu

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldclu | FP | DMuns3 |

### 1.1 Gldclu

Global Office Parameter Gldclu

### 1.2 Description

Quantity of Digital Carrier Line Units (DLCU)s in each IM. No population rules available. Quantity of DLCUs in each IM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gldclu.values: */

        /* no check */ ;
```

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# Gldcowait

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldcowait | FR | DMshort |

### 1.1 Gldcowait

Global Office Parameter Gldcowait

### 1.2 Description

Gldcowait is the time between the initial CCS continuity test failure and the first retry (TUP/ISUP protocols). ODA should populate with default value for new office but preserve value from database during retrofits and growths. This parameter is used only when the office contains CCS7n trunks as shown when one or more tuples of RLrt_trkg have in_sigtype or out_sigtype set to DBISUP7 or DBTUP7. Gldcowait is specified in seconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 5

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 5;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Gldcowait.values: */

Gldcowait is_in {4 thru 15};
```

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# Gldelcallpriv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldelcallpriv | FR | DMbool |

### 1.1 Gldelcallpriv

Global Office Parameter Gldelcallpriv

### 1.2 Description

This parameter is unused by 5E4(2) call processing software and all RC/V and ODA references to it should be removed. This parameter will be removed in 5E5.

Specifies whether to allow delayed call privileges. DBYES means it is allowed.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Gldelcallpriv.values: */

Gldelcallpriv is_in {DBYES, DBNO};
```

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# Gldfcrd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldfcrd | FP | DMbool |

### 1.1 Gldfcrd

Differentiation of card service charges feature activation bit.

### 1.2 Description

This parameter shall be used to enable/disable the differentiation of card service charges feature. DBYES indicates the feature is activated. DBNO indicates the feature is not activated, or is deactivated. Glccc_on

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gldfcrd.values: */

        /* no check */ ;

/* RULE about Gldfcrd: */

/* There shall be a cross check to ensure that Glccc_on is DBYES */
```

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```
/*  before this feature is activated                          */
if (Gldfcrd == DBYES) then
begin
        Glccc_on == DBYES;
end

end
```

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# Gldfltcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldfltcnt | LP | DMcount |

### 1.1 Gldfltcnt

Global Office Parameter Gldfltcnt

### 1.2 Description

DESCRIPTION: This parameter contains the number of tuples in RLbfgmatch that are used for default service. The parameter is used during an RC insert to determine the difference between the number of default service tuples currently in existence and the maximum number allowable (as indicated by Gldfltmax). If the insertion of the new default service group tuple would cause Gldfltcnt to be greater than Gldfltmax, then the insert is denied.

POPULATION: The parameter can be calculated at ODA initialization time by stepping through all tuples in RLbfgmatch and checking the attribute 'def_svc.' For each tuple that has this attribute set to DBYES, increment this count. This attribute does not appear on an RC view or ODA form.

```
- ODA population:

  Gldfltcnt := 0;

  for all tuples in RLbfgmatch

      begin

          if ( RLbfgmatch.def_svc equals DBYES ) then

             Gldfltcnt := Gldfltcnt + 1;

      end;


- RC/V RLbfgmatch insert (RLbfgmatch.def_svc equals DBYES):


  if ( Gldfltcnt equals Gldfltmax )

      then ERROR( 'Default service limit exceeded' ):

      else Gldfltcnt := Gldfltcnt + 1;


- RC/V RLbfgmatch deletion (RLbfgmatch.def_svc equals DBYES):


  Gldfltcnt := Gldfltcnt - 1;
```

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***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** This parameter should be determined algorithmically for a retrofit to 5E5 and future generics as outlined in the ODA population section.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard - LP */

;
```

***Checks:***
```
/* RULE about Gldfltcnt.values: */

Gldfltcnt on am is_in {0 thru Gldfltmax on am};
```

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# Gldfltmax

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldfltmax | LP | DMcount |

### 1.1 Gldfltmax

Office Parameter Gldfltmax

### 1.2 Description

DESCRIPTION: This parameter contains the maximum allowable number of tuples in RLbfgmatch that may be used for default service. The parameter is used in conjunction with Gldfltcnt to determine when the threshold is exceeded.

POPULATION: Always populated to the default value. Can only be changed by ODBE after its original population - this attribute does not appear on an ODA form.

DEFAULTS:

Recent Change default: NA

ODA default: 255

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 255

***CMP Initial Value:*** 255

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** This parameter should be preserved across a generic retrofit and set to it's default value when retrofit to 5E5.

***Default Rules:***
```
default = 255;
```

***Distribution Rules:***
```
/* standard - LP */

;
```

***Checks:***
```
/* RULE about Gldfltmax.values: */
```

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```
Gldfltmax on am is_in {0 thru 255};
```

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# Gldfltsrv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldfltsrv | LP | DMrcbfgid |

### 1.1 Gldfltsrv

Default service group ID

### 1.2 Description

This parameter is populated with the default service group ID defined as the default to be used by RC and ODA when inserting new BRI DSLs.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by RC and ODA, and can be populated with a default service group ID when the Auto Association of Default Service feature, SFID 238 is active. See RLdslequip for assignment of default service to a BRI DSL.

***Retrofit Rules:*** This value should be preserved during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard - LP ( CMP ) */

;
```

***Checks:***
```
/* RULE about Gldfltsrv.values: */

Gldfltsrv on cmp is_in {0x0, 0x100 thru 0xfff};

/* RULE about Gldfltsrv: */

if (Gldfltsrv on cmp != 0x0) then
begin
        find == 1 fid2name in RLfid2name
```

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```
        where (fid2name.facid == Gldfltsrv on cmp &&
                fid2name.class == FACBFG &&
                fid2name.subclass == SCL_DFLT);
end
```

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# Gldfltvers

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldfltvers | LP | DMshort |

### 1.1 Gldfltvers

Global Office Parameter Gldfltvers

### 1.2 Description

This parameter is used by the Recent Change Operating System APPTEXT Forward Translation (u1274) feature in 5e9.1. This parameter provides a means for setting the office default for the 'version' APPTEXT session parameter. The valid values (for 5e9.1) are 0, 8, and 9. If this parameter is set to '8' on the AM, all input to any APPTEXT sessions initiated in the office is expected to be in 5e8.1 format. If this parameter is set to '0' or '9' on the AM, all input to any APPTEXT sessions initiated in the office is expected to be in 5e9.1 format.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** During retrofit, this parameter should always be populated with a 0.

***Default Rules:*** None

***Distribution Rules:***

```
/* standard - LP ( AM ) */

;
```

***Checks:***

```
/* RULE about Gldfltvers.values: */

        /* no check */ ;
```

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# Gldi0_0ptss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldi0_0ptss | FP | DMulong |

### 1.1 Gldi0_0ptss

Global Office Parameter Gldi0_0ptss

### 1.2 Description

These parameters are the PSU time slot set bit masks. These parameters are used to reserve TSIU time slots for use by PSU nail up connections on DI 0. Each bit that is set will reserve a TSIU channel time slot via a tuple in RLcktdata of type PCPSU_TS (see poprules for RLcktdata for more details). At least as many bits must be set as the number of TSIU channel time slots required for nail ups on the PSU PIDBs connecting to DI 0 for the following port types: ISM, RISLU, IP trunks, X.75'/X.75 trunks, XAT, ESDL/OSPS trunks, PSU Pipe (PP), and Speech Handler (SH) trunks (see Gldi0tscnt). If the SM is not an ISDN SM, these parameters should not be populated. It is recommended that no more than a SM total of 128 time slots be used for nail ups if inter SM call processing takes place on this SM.

The following cross-check will verify the integrity of these parameters: for all nonzero values, in descending order, of RLpsiupidb.shts_di0, the bits set in these parameters must satisfy the conditions:

(1) Each set bit can only represent one value (that is, a bit can not be used by more than one shelf).

(2) The set bits must follow the algorithm shown here for each shelf:

```
count   <-- RLpsiupidb.shts_di0

#pidb0s <-- count of non-zero pidb_*a where

            corresponding di_pidb == 0



timeslots_available <-- 0

slot_counted[] <-- 0 (array of 32 which indicates how many

                      times a given timeslot has been

                      counted for a shelf)



for (ptss=0; ptss < 8; ptss+)

{

    for (timeslot=0; timeslot < 32; timeslot++)

    {

        if (bit on in ptss bit map and
```

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```
                slot_counted[timeslot] <= #PIDB0s)
            {
                timeslots_available++;
                slot_counted[timeslot]++;
            }
        }
    }
    assert (count <= timeslots_available)
```

This Parameter is unused by SM-2000. The parameter will initially be populated with default (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gldi0_0ptss.values: */

for pcr in sm_all
begin
    for modatt in RLmodatt
    where (modatt.module == pcr && modatt.unittype is_in
                {SMSM2000, SMSM2005})
```

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```
        begin
                /*
                 * If the SM is SM-2000, Gldi0_0ptss must
                 * not be used, therefore should always be
                 * set to 0.  If an SM, full range of
                 * values including 0 is valid.
                 */
                Gldi0_0ptss on pcr == 0;
        end
end
```

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# Gldi0_1ptss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldi0_1ptss | FP | DMulong |

### 1.1 Gldi0_1ptss

Global Office Parameter Gldi0_1ptss

### 1.2 Description

These parameters are the PSU time slot set bit masks. These parameters are used to reserve TSIU time slots for use by PSU nail up connections on DI 0. Each bit that is set will reserve a TSIU channel time slot via a tuple in RLcktdata of type PCPSU_TS (see poprules for RLcktdata for more details). At least as many bits must be set as the number of TSIU channel time slots required for nail ups on the PSU PIDBs connecting to DI 0 for the following port types: ISM, RISLU, IP trunks, X.75'/X.75 trunks, XAT, EDSL/OSPS trunks, PSU Pipe (PP), and Speech Handler (SH) trunks (see Gldi0tscnt). If the SM is not an ISDN SM, these parameters should not be populated. It is recommended that no more than a SM total of 128 time slots be used for nail ups if inter SM call processing takes place on this SM.

The following cross-check will verify the integrity of these parameters: for all nonzero values, in descending order, of RLpsiupidb.shts_di0, the bits set in these parameters must satisfy the conditions:

(1) Each set bit can only represent one value (that is, a bit can not be used by more than one shelf).

(2) The set bits must follow the algorithm shown here for each shelf:

```
count   <-- RLpsiupidb.shts_di0

#pidb0s <-- count of non-zero pidb_*a where

            corresponding di_pidb == 0



timeslots_available <-- 0

slot_counted[] <-- 0 (array of 32 which indicates how many

                      times a given timeslot has been

                      counted for a shelf)



for (ptss=0; ptss < 8; ptss+)

{

    for (timeslot=0; timeslot < 32; timeslot++)

    {

        if (bit on in ptss bit map and
```

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```
                slot_counted[timeslot] <= #PIDB0s)

            {

                timeslots_available++;

                slot_counted[timeslot]++;

            }

        }

    }

    assert (count <= timeslots_available)
```

This parameter is unused by SM-2000. It will initially be populated with default (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gldi0_1ptss */

for pcr in sm_all
begin
        for modatt in RLmodatt
        where (modatt.module == pcr && modatt.unittype is_in {SMSM2000, SMSM2005})
        begin
```

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```
                /*
                 * If the SM is SM-2000, Gldi0_1ptss must
                 * not be used, therefore should always be
                 * set to 0.  If an SM, full range of
                 * values including 0 is valid.
                 */
                Gldi0_1ptss on pcr == 0;
        end
end
```

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# Gldi0_2ptss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldi0_2ptss | FP | DMulong |

### 1.1 Gldi0_2ptss

Global Office Parameter Gldi0_2ptss

### 1.2 Description

These parameters are the PSU time slot set bit masks. These parameters are used to reserve TSIU time slots for use by PSU nail up connections on DI 0. Each bit that is set will reserve a TSIU channel time slot via a tuple in RLcktdata of type PCPSU_TS (see poprules for RLcktdata for more details). At least as many bits must be set as the number of TSIU channel time slots required for nail ups on the PSU PIDBs connecting to DI 0 for the following port types: ISM, RISLU, IP trunks, X.75'/X.75 trunks, XAT, EDSL/OSPS trunks, PSU Pipe (PP), and Speech Handler (SH) trunks (see Gldi0tscnt). If the SM is not an ISDN SM, these parameters should not be populated. It is recommended that no more than a SM total of 128 time slots be used for nail ups if inter SM call processing takes place on this SM.

The following cross-check will verify the integrity of these parameters: for all nonzero values, in descending order, of RLpsiupidb.shts_di0, the bits set in these parameters must satisfy the conditions:

(1) Each set bit can only represent one value (that is, a bit can not be used by more than one shelf).

(2) The set bits must follow the algorithm shown here for each shelf:

```
count <-- RLpsiupidb.shts_di0 #pidb0s <-- count of non-zero pidb_*a where

       corresponding di_pidb == 0



timeslots_available <-- 0 slot_counted[] <-- 0 (array of 32 which indicates how
many

               times a given timeslot has been counted for a shelf)



for (ptss=0; ptss < 8; ptss+) {

  for (timeslot=0; timeslot < 32; timeslot++)

  {

    if (bit on in ptss bit map and

        slot_counted[timeslot] <= #PIDB0s)

    {

           timeslots_available++;
```

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```
                slot_counted[timeslot]++;

          }

        }

      }

      assert (count <= timeslots_available)
```

This parameter is unused by SM-2000. It will initially be populated with default (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gldi0_2pts */
for pcr in sm_all
begin
        for modatt in RLmodatt
        where (modatt.module == pcr && modatt.unittype is_in {SMSM2000, SMSM2005})
        begin
                /*
                 * If the SM is SM-2000, Gldi0_2ptss must
                 * not be used, therefore should always be
                 * set to 0.  If an SM, full range of
                 * values including 0 is valid.
                 */
                 Gldi0_2ptss on pcr == 0;
        end
```

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```
end
```

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# Gldi0_3ptss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldi0_3ptss | FP | DMulong |

### 1.1 Gldi0_3ptss

Global Office Parameter Gldi0_3ptss

### 1.2 Description

These parameters are the PSU time slot set bit masks. These parameters are used to reserve TSIU time slots for use by PSU nail up connections on DI 0. Each bit that is set will reserve a TSIU channel time slot via a tuple in RLcktdata of type PCPSU_TS (see poprules for RLcktdata for more details). At least as many bits must be set as the number of TSIU channel time slots required for nail ups on the PSU PIDBs connecting to DI 0 for the following port types: ISM, RISLU, IP trunks, X.75'/X.75 trunks, XAT, EDSL/OSPS trunks, PSU Pipe (PP), and Speech Handler (SH) trunks. (see Gldi0tscnt). If the SM is not an ISDN SM, these parameters should not be populated. It is recommended that no more than a SM total of 128 time slots be used for nail ups if inter SM call processing takes place on this SM.

The following cross-check will verify the integrity of these parameters: for all nonzero values, in descending order, of RLpsiupidb.shts_di0, the bits set in these parameters must satisfy the conditions:

(1) Each set bit can only represent one value (that is, a bit can not be used by more than one shelf).

(2) The set bits must follow the algorithm shown here for each shelf:

```
count <-- RLpsiupidb.shts_di0 #pidb0s <-- count of non-zero pidb_*a where

      corresponding di_pidb == 0



timeslots_available <-- 0 slot_counted[] <-- 0 (array of 32 which indicates how
many

            times a given timeslot has been

            counted for a shelf)



for (ptss=0; ptss < 8; ptss+) {

    for (timeslot=0; timeslot < 32; timeslot++)

    {

       if (bit on in ptss bit map and

          slot_counted[timeslot] <= #PIDB0s)

       {
```

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```
                timeslots_available++;

                slot_counted[timeslot]++;

            }

        }

    }

    assert (count <= timeslots_available)
```

This parameter is unused by SM-2000. It will be initially populated with default (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gldi0_3ptss */

for pcr in sm_all
begin
        for modatt in RLmodatt
        where (modatt.module == pcr && modatt.unittype is_in {SMSM2000, SMSM2005})
        begin
                /*
                 * If the SM is SM-2000, Gldi0_3ptss must
                 * not be used, therefore should always be
                 * set to 0.  If an SM, full range of
                 * values including 0 is valid.
```

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```
                 */
                Gldi0_3ptss on pcr == 0;
        end
end
```

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# Gldi0_4ptss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldi0_4ptss | FP | DMulong |

### 1.1 Gldi0_4ptss

Global Office Parameter Gldi0_4ptss

### 1.2 Description

These parameters are the PSU time slot set bit masks. These parameters are used to reserve TSIU time slots for use by PSU nail up connections on DI 0. Each bit that is set will reserve a TSIU channel time slot via a tuple in RLcktdata of type PCPSU_TS (see poprules for RLcktdata for more details). At least as many bits must be set as the number of TSIU channel time slots required for nail ups on the PSU PIDBs connecting to DI 0 for the following port types: ISM, RISLU, IP trunks, X.75'/X.75 trunks, XAT, ESDL/OSPS trunks, PSU Pipe (PP), and Speech Handler (SH) trunks. (see Gldi0tscnt). If the SM is not an ISDN SM, these parameters should not be populated. It is recommended that no more than a SM total of 128 time slots be used for nail ups if inter SM call processing takes place on this SM.

The following cross-check will verify the integrity of these parameters: for all nonzero values, in descending order, of RLpsiupidb.shts_di0, the bits set in these parameters must satisfy the conditions:

(1) Each set bit can only represent one value (that is, a bit can not be used by more than one shelf).

(2) The set bits must follow the algorithm shown here for each shelf:

```
count   <-- RLpsiupidb.shts_di0

#pidb0s <-- count of non-zero pidb_*a where

            corresponding di_pidb == 0



timeslots_available <-- 0

slot_counted[] <-- 0 (array of 32 which indicates how many

                      times a given timeslot has been

                      counted for a shelf)



for (ptss=0; ptss < 8; ptss+)

{

    for (timeslot=0; timeslot < 32; timeslot++)

    {

        if (bit on in ptss bit map and
```

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```
                slot_counted[timeslot] <= #PIDB0s)

            {

                timeslots_available++;

                slot_counted[timeslot]++;

            }

        }

    }

    assert (count <= timeslots_available)
```

This Parameter is unused by SM-2000. The parameter will initially be populated with default (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gldi0_4ptss.values: */

for pcr in sm_all
begin
        for modatt in RLmodatt
        where (modatt.module == pcr && modatt.unittype is_in {SMSM2000, SMSM2005})
        begin
```

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```
                /*
                 * If the SM is SM-2000, Gldi0_4ptss must
                 * not be used, therefore should always be
                 * set to 0.  If an SM, full range of
                 * values including 0 is valid.
                 */
                Gldi0_4ptss on pcr == 0;
        end
end
```

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# Gldi0_5ptss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldi0_5ptss | FP | DMulong |

### 1.1 Gldi0_5ptss

Global Office Parameter Gldi0_5ptss

### 1.2 Description

These parameters are the PSU time slot set bit masks. These parameters are used to reserve TSIU time slots for use by PSU nail up connections on DI 0. Each bit that is set will reserve a TSIU channel time slot via a tuple in RLcktdata of type PCPSU_TS (see poprules for RLcktdata for more details). At least as many bits must be set as the number of TSIU channel time slots required for nail ups on the PSU PIDBs connecting to DI 0 for the following port types: ISM, RISLU, IP trunks, X.75'/X.75 trunks, XAT, ESDL/OSPS trunks, PSU Pipe (PP), and Speech Handler (SH) trunks (see Gldi0tscnt). If the SM is not an ISDN SM, these parameters should not be populated. It is recommended that no more than a SM total of 128 time slots be used for nail ups if inter SM call processing takes place on this SM.

The following cross-check will verify the integrity of these parameters: for all nonzero values, in descending order, of RLpsiupidb.shts_di0, the bits set in these parameters must satisfy the conditions:

(1) Each set bit can only represent one value (that is, a bit can not be used by more than one shelf).

(2) The set bits must follow the algorithm shown here for each shelf:

```
count   <-- RLpsiupidb.shts_di0

#pidb0s <-- count of non-zero pidb_*a where

            corresponding di_pidb == 0



timeslots_available <-- 0

slot_counted[] <-- 0 (array of 32 which indicates how many

                      times a given timeslot has been

                      counted for a shelf)



for (ptss=0; ptss < 8; ptss+)

{

    for (timeslot=0; timeslot < 32; timeslot++)

    {

        if (bit on in ptss bit map and
```

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```
                slot_counted[timeslot] <= #PIDB0s)

            {

                timeslots_available++;

                slot_counted[timeslot]++;

            }

        }

    }

    assert (count <= timeslots_available)
```

This Parameter is unused by SM-2000. The parameter will initially be populated with default (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gldi0_5ptss.values: */

for pcr in sm_all
begin
        for modatt in RLmodatt
        where (modatt.module == pcr && modatt.unittype is_in {SMSM2000, SMSM2005})
        begin
```

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```
                /*
                 * If the SM is SM-2000, Gldi0_5ptss must
                 * not be used, therefore should always be
                 * set to 0.  If an SM, full range of
                 * values including 0 is valid.
                 */
                Gldi0_5ptss on pcr == 0;
        end
end
```

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# Gldi0_6ptss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldi0_6ptss | FP | DMulong |

### 1.1 Gldi0_6ptss

Global Office Parameter Gldi0_6ptss

### 1.2 Description

These parameters are the PSU time slot set bit masks. These parameters are used to reserve TSIU time slots for use by PSU nail up connections on DI 0. Each bit that is set will reserve a TSIU channel time slot via a tuple in RLcktdata of type PCPSU_TS (see poprules for RLcktdata for more details). At least as many bits must be set as the number of TSIU channel time slots required for nail ups on the PSU PIDBs connecting to DI 0 for the following port types: ISM, RISLU, IP trunks, X.75'/X.75 trunks, XAT, ESDL/OSPS trunks, PSU Pipe (PP), and Speech Handler (SH) trunks (see Gldi0tscnt). If the SM is not an ISDN SM, these parameters should not be populated. It is recommended that no more than a SM total of 128 time slots be used for nail ups if inter SM call processing takes place on this SM.

The following cross-check will verify the integrity of these parameters: for all nonzero values, in descending order, of RLpsiupidb.shts_di0, the bits set in these parameters must satisfy the conditions:

(1) Each set bit can only represent one value (that is, a bit can not be used by more than one shelf).

(2) The set bits must follow the algorithm shown here for each shelf:

```
count   <-- RLpsiupidb.shts_di0

#pidb0s <-- count of non-zero pidb_*a where

            corresponding di_pidb == 0



timeslots_available <-- 0

slot_counted[] <-- 0 (array of 32 which indicates how many

                      times a given timeslot has been

                      counted for a shelf)



for (ptss=0; ptss < 8; ptss+)

{

     for (timeslot=0; timeslot < 32; timeslot++)

     {

          if (bit on in ptss bit map and
```

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```
                    slot_counted[timeslot] <= #PIDB0s)

                {

                        timeslots_available++;

                        slot_counted[timeslot]++;

                }

            }

        }

        assert (count <= timeslots_available)
```

This Parameter is unused by SM-2000. The parameter will initially be populated with default (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gldi0_6ptss.values: */

for pcr in sm_all
begin
        for modatt in RLmodatt
        where (modatt.module == pcr && modatt.unittype is_in {SMSM2000, SMSM2005})
        begin
```

```
                /*
                 * If the SM is SM-2000, Gldi0_6ptss must
                 * not be used, therefore should always be
                 * set to 0.  If an SM, full range of
                 * values including 0 is valid.
                 */
                Gldi0_6ptss on pcr == 0;
        end
end
```

# Gldi0_7ptss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldi0_7ptss | FP | DMulong |

### 1.1 Gldi0_7ptss

Global Office Parameter Gldi0_7ptss

### 1.2 Description

These parameters are the PSU time slot set bit masks. These parameters are used to reserve TSIU time slots for use by PSU nail up connections on DI 0. Each bit that is set will reserve a TSIU channel time slot via a tuple in RLcktdata of type PCPSU_TS (see poprules for RLcktdata for more details). At least as many bits must be set as the number of TSIU channel time slots required for nail ups on the PSU PIDBs connecting to DI 0 for the following port types: ISM, RISLU, IP trunks, X.75'/X.75 trunks, XAT, ESDL/OSPS trunks, PSU Pipe (PP), and Speech Handler (SH) trunks (see Gldi0tscnt). If the SM is not an ISDN SM, these parameters should not be populated. It is recommended that no more than a SM total of 128 time slots be used for nail ups if inter SM call processing takes place on this SM.

The following cross-check will verify the integrity of these parameters: for all nonzero values, in descending order, of RLpsiupidb.shts_di0, the bits set in these parameters must satisfy the conditions:

(1) Each set bit can only represent one value (that is, a bit can not be used by more than one shelf).

(2) The set bits must follow the algorithm shown here for each shelf:

```
count <-- RLpsiupidb.shts_di0 #pidb0s <-- count of non-zero pidb_*a where

        corresponding di_pidb == 0


timeslots_available <-- 0 slot_counted[] <-- 0 (array of 32 which indicates how
many

               times a given timeslot has been

               counted for a shelf)


for (ptss=0; ptss < 8; ptss+) {

   for (timeslot=0; timeslot < 32; timeslot++)

   {

      if (bit on in ptss bit map and

          slot_counted[timeslot] <= #PIDB0s)

      {
```

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```
                timeslots_available++;

                slot_counted[timeslot]++;

            }

        }

    }

    assert (count <= timeslots_available)
```

This Parameter is unused by SM-2000. The parameter will initially be populated with default (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gldi0_7ptss.values: */

for pcr in sm_all
begin
        for modatt in RLmodatt
        where (modatt.module == pcr && modatt.unittype is_in {SMSM2000, SMSM2005})
        begin
                /*
                 * If the SM is SM-2000, Gldi0_7ptss must
                 * not be used, therefore should always be
                 * set to 0.  If an SM, full range of
                 * values including 0 is valid.
```

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```
                 */
                Gldi0_7ptss on pcr == 0;
        end
end
```

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# Gldi0tscnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldi0tscnt | FP | DMuchar |

### 1.1 Gldi0tscnt

Global Office Parameter Gldi0tscnt

### 1.2 Description

This parameter records the number of TSIU channel time slots on DI 0 used by the following PSU PIDB nailed up connections: ISM, RISLU, IP trunks, X.75'/X.75, PSU Pipe (PP) trunks, SS7 Signaling Data Links, AT and EDSL trunks. This count should be incremented/decremented whenever the RLpsiupidb.shts_di0 attribute is incremented/decremented. Rules for incrementing/decrementing the RLpsiupidb.shts_di0 is described under attribute description of shts_di[*] in RLpsiupidb poprules file.

This parameter is not used for SM-2000.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
        find == 1 modatt in RLmodatt
        where (modatt.module == current_pcr)
        when_found
                if ((modatt.unittype != SMSM2000) &&
```

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```
                    (modatt.unittype != SMSM2005)) then
                        Gldi0tscnt is_in {0 thru 256};
                else
                        Gldi0tscnt == 0;
end
```

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# Gldi1_0ptss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldi1_0ptss | FP | DMulong |

### 1.1 Gldi1_0ptss

Global Office Parameter Gldi1_0ptss

### 1.2 Description

These parameters are the PSU time slot set bit masks. These parameters are used to reserve TSIU time slots for use by PSU nail up connections on DI 1. Each bit that is set will reserve a TSIU channel time slot via a tuple in RLcktdata of type PCPSU_TS (see poprules for RLcktdata for more details). At least as many bits must be set as the number of TSIU channel time slots required for nail ups on the PSU PIDBs connecting to DI 1 for the following port types: ISM, RISLU, IP trunks, X.75'/X.75 trunks, XAT, EDSL/OSPS trunks, PSU Pipe (PP), and Speech Handler (SH) trunks (see Gldi1tscnt). If the SM is not an ISDN SM, these parameters should not be populated. It is recommended that no more than a SM total of 128 time slots be used for nail ups if inter SM call processing takes place on this SM.

The following cross-check will verify the integrity of these parameters: for all nonzero values, in descending order, of RLpsiupidb.shts_di1, the bits set in these parameters must satisfy the conditions:

(1) Each set bit can only represent one value (that is, a bit can not be used by more than one shelf).

(2) The set bits must follow the algorithm shown here for each shelf:

```
count <-- RLpsiupidb.shts_di1

#pidb1s <-- count of non-zero pidb_*b where

            corresponding di_pidb == 1



timeslots_available <-- 0

slot_counted[] <-- 0 (array of 32 which indicates how many

                     times a given timeslot has been

                     counted for a shelf)



for (ptss=0; ptss < 8; ptss+)

{

    for (timeslot=0; timeslot < 32; timeslot++)

    {

        if (bit on in ptss bit map and
```

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```
                slot_counted[timeslot] <= #PIDB1s)

            {

                timeslots_available++;

                slot_counted[timeslot]++;

            }

        }

    }

    assert (count <= timeslots_available)
```

This parameter is unused by SM-2000. It will initially be populated with default (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gldi1_0ptss */
for pcr in sm_all
begin
        for modatt in RLmodatt
        where (modatt.module == pcr && modatt.unittype is_in {SMSM2000, SMSM2005})
        begin
                /*
```

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```
                * If the SM is SM-2000, Gldi1_0ptss must
                * not be used, therefore should always be
                * set to 0.  If an SM, full range of
                * values including 0 is valid.
                */
               Gldi1_0ptss on pcr == 0;
        end
end
```

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# Gldi1_1ptss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldi1_1ptss | FP | DMulong |

### 1.1 Gldi1_1ptss

Global Office Parameter Gldi1_1ptss

### 1.2 Description

These parameters are the PSU time slot set bit masks. These parameters are used to reserve TSIU time slots for use by PSU nail up connections on DI 1. Each bit that is set will reserve a TSIU channel time slot via a tuple in RLcktdata of type PCPSU_TS (see poprules for RLcktdata for more details). At least as many bits must be set as the number of TSIU channel time slots required for nail ups on the PSU PIDBs connecting to DI 1 for the following port types: ISM, RISLU, IP trunks, X.75'/X.75 trunks, XAT, EDSL/OSPS trunks, PSU Pipe (PP), and Speech Handler (SH) trunks (see Gldi1tscnt). If the SM is not an ISDN SM, these parameters should not be populated. It is recommended that no more than a SM total of 128 time slots be used for nail ups if inter SM call processing takes place on this SM.

The following cross-check will verify the integrity of these parameters: for all nonzero values, in descending order, of RLpsiupidb.shts_di1, the bits set in these parameters must satisfy the conditions:

(1) Each set bit can only represent one value (that is, a bit can not be used by more than one shelf).

(2) The set bits must follow the algorithm shown here for each shelf:

```
count   <-- RLpsiupidb.shts_di1

#pidb1s <-- count of non-zero pidb_*b where

            corresponding di_pidb == 1



timeslots_available <-- 0

slot_counted[] <-- 0 (array of 32 which indicates how many

                      times a given timeslot has been

                      counted for a shelf)



for (ptss=0; ptss < 8; ptss+)

{

    for (timeslot=0; timeslot < 32; timeslot++)

    {

        if (bit on in ptss bit map and
```

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```
                slot_counted[timeslot] <= #PIDB1s)

            {

                timeslots_available++;

                slot_counted[timeslot]++;

            }

        }

    }

    assert (count <= timeslots_available)
```

This parameter is unused by SM-2000. The parameter will initially be populated with the default (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYESv

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gldi1_1ptss:  */

for pcr in sm_all
begin
        for modatt in RLmodatt
        where (modatt.module == pcr && modatt.unittype is_in {SMSM2000, SMSM2005})
        begin
```

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```
                /*
                 * If the SM is SM-2000, Gldi1_1ptss must
                 * not be used, therefore should always be set
                 * to 0.  If an SM, full range of values
                 * including 0 is valid.
                 */
                Gldi1_1ptss on pcr == 0;
        end
end
```

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# Gldi1_2ptss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldi1_2ptss | FP | DMulong |

### 1.1 Gldi1_2ptss

Global Office Parameter Gldi1_2ptss

### 1.2 Description

These parameters are the PSU time slot set bit masks. These parameters are used to reserve TSIU time slots for use by PSU nail up connections on DI 1. Each bit that is set will reserve a TSIU channel time slot via a tuple in RLcktdata of type PCPSU_TS (see poprules for RLcktdata for more details). At least as many bits must be set as the number of TSIU channel time slots required for nail ups on the PSU PIDBs connecting to DI 1 for the following port types: ISM, RISLU, IP trunks, X.75'/X.75 trunks, XAT, EDSL/OSPS trunks, PSU Pipe (PP), and Speech Handler (SH) trunks (see Gldi1tscnt). If the SM is not an ISDN SM, these parameters should not be populated. It is recommended that no more than a SM total of 128 time slots be used for nail ups if inter SM call processing takes place on this SM.

The following cross-check will verify the integrity of these parameters: for all nonzero values, in descending order, of RLpsiupidb.shts_di1, the bits set in these parameters must satisfy the conditions:

(1) Each set bit can only represent one value (that is, a bit can not be used by more than one shelf).

(2) The set bits must follow the algorithm shown here for each shelf:

```
count <-- RLpsiupidb.shts_di1

#pidb1s <-- count of non-zero pidb_*b where

            corresponding di_pidb == 1



timeslots_available <-- 0

slot_counted[] <-- 0 (array of 32 which indicates how many

                      times a given timeslot has been

                      counted for a shelf)



for (ptss=0; ptss < 8; ptss+)

{

    for (timeslot=0; timeslot < 32; timeslot++)

    {

        if (bit on in ptss bit map and
```

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```
                slot_counted[timeslot] <= #PIDB1s)

            {

                timeslots_available++;

                slot_counted[timeslot]++;

            }

        }

    }

    assert (count <= timeslots_available)
```

This parameter is unused by SM-2000. The parameter will initially be populated with default (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gldi1_2ptss: */
for pcr in sm_all
begin
        for modatt in RLmodatt
        where (modatt.module == pcr && modatt.unittype is_in {SMSM2000, SMSM2005})
        begin
                /*
```

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```
                * If the SM is SM-2000, Gldi1_2ptss must
                * not be used, therefore should always be
                * set to 0.  If class SM, full range of
                * values including 0 is valid.
                */
               Gldi1_2ptss on pcr == 0;
        end
end
```

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# Gldi1_3ptss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldi1_3ptss | FP | DMulong |

### 1.1 Gldi1_3ptss

Global Office Parameter Gldi1_3ptss

### 1.2 Description

These parameters are the PSU time slot set bit masks. These parameters are used to reserve TSIU time slots for use by PSU nail up connections on DI 1. Each bit that is set will reserve a TSIU channel time slot via a tuple in RLcktdata of type PCPSU_TS (see poprules for RLcktdata for more details). At least as many bits must be set as the number of TSIU channel time slots required for nail ups on the PSU PIDBs connecting to DI 1 for the following port types: ISM, RISLU, IP trunks, X.75'/X.75 trunks, XAT, EDSL/OSPS trunks, PSU Pipe (PP), and Speech Handler (SH) trunks (see Gldi1tscnt). If the SM is not an ISDN SM, these parameters should not be populated. It is recommended that no more than a SM total of 128 time slots be used for nail ups if inter SM call processing takes place on this SM.

The following cross-check will verify the integrity of these parameters: for all nonzero values, in descending order, of RLpsiupidb.shts_di1, the bits set in these parameters must satisfy the conditions:

(1) Each set bit can only represent one value (that is, a bit can not be used by more than one shelf).

(2) The set bits must follow the algorithm shown here for each shelf:

```
count <-- RLpsiupidb.shts_di1

#pidb1s <-- count of non-zero pidb_*b where

            corresponding di_pidb == 1



timeslots_available <-- 0

slot_counted[] <-- 0 (array of 32 which indicates how many

                      times a given timeslot has been

                      counted for a shelf)



for (ptss=0; ptss < 8; ptss+)

{

    for (timeslot=0; timeslot < 32; timeslot++)

    {

        if (bit on in ptss bit map and
```

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```
                slot_counted[timeslot] <= #PIDB1s)

            {

                timeslots_available++;

                slot_counted[timeslot]++;

            }

        }

    }

    assert (count <= timeslots_available)
```

This parameter is unused by SM-2000. The parameter will initially be populated with default (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gldi1_3ptss: */
for pcr in sm_all
begin
        for modatt in RLmodatt
        where (modatt.module == pcr && modatt.unittype is_in {SMSM2000, SMSM2005})
        begin
                /*
```

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```
                * If the SM is SM-2000, Gldi1_3ptss must
                * not be used, therefore should always be
                * set to 0.  If class SM, full range of
                * values including 0 is valid.
                */
               Gldi1_3ptss on pcr == 0;
        end
end
```

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# Gldi1_4ptss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldi1_4ptss | FP | DMulong |

### 1.1 Gldi1_4ptss

Global Office Parameter Gldi1_4ptss

### 1.2 Description

These parameters are the PSU time slot set bit masks. These parameters are used to reserve TSIU time slots for use by PSU nail up connections on DI 1. Each bit that is set will reserve a TSIU channel time slot via a tuple in RLcktdata of type PCPSU_TS (see poprules for RLcktdata for more details). At least as many bits must be set as the number of TSIU channel time slots required for nail ups on the PSU PIDBs connecting to DI 1 for the following port types: ISM, RISLU, IP trunks, X.75'/X.75 trunks, XAT, EDSL/OSPS trunks, PSU Pipe (PP), and Speech Handler (SH) trunks (see Gldi1tscnt). If the SM is not an ISDN SM, these parameters should not be populated. It is recommended that no more than a SM total of 128 time slots be used for nail ups if inter SM call processing takes place on this SM.

The following cross-check will verify the integrity of these parameters: for all nonzero values, in descending order, of RLpsiupidb.shts_di1, the bits set in these parameters must satisfy the conditions:

(1) Each set bit can only represent one value (that is, a bit can not be used by more than one shelf).

(2) The set bits must follow the algorithm shown here for each shelf:

```
count <-- RLpsiupidb.shts_di1 #pidb1s <-- count of non-zero pidb_*b where

       corresponding di_pidb == 1

timeslots_available <-- 0 slot_counted[] <-- 0 (array of 32 which indicates how
many

               times a given timeslot has been

               counted for a shelf)

for (ptss=0; ptss < 8; ptss+) {

   for (timeslot=0; timeslot < 32; timeslot++)

   {

      if (bit on in ptss bit map and

          slot_counted[timeslot] <= #PIDB1s)

      {

             timeslots_available++;

             slot_counted[timeslot]++;
```

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```
            }

         }

      }

      assert (count <= timeslots_available)
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** not applicable

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gldi1_4ptss */
for pcr in sm_all
begin
        for modatt in RLmodatt
        where (modatt.module == pcr && modatt.unittype is_in {SMSM2000, SMSM2005})
        begin
                /*
                 * If the SM is SM-2000, Gldi1_4ptss must
                 * not be used, therefore should always be
                 * set to 0.  If an SM, full range of
                 * values including 0 is valid.
                 */
                Gldi1_4ptss on pcr == 0;
        end
end
```

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# Gldi1_5ptss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldi1_5ptss | FP | DMulong |

### 1.1 Gldi1_5ptss

Global Office Parameter Gldi1_5ptss

### 1.2 Description

These parameters are the PSU time slot set bit masks. These parameters are used to reserve TSIU time slots for use by PSU nail up connections on DI 1. Each bit that is set will reserve a TSIU channel time slot via a tuple in RLcktdata of type PCPSU_TS (see poprules for RLcktdata for more details). At least as many bits must be set as the number of TSIU channel time slots required for nail ups on the PSU PIDBs connecting to DI 1 for the following port types: ISM, RISLU, IP trunks, X.75'/X.75 trunks, XAT, EDSL/OSPS trunks, PSU Pipe (PP), and Speech Handler (SH) trunks (see Gldi1tscnt). If the SM is not an ISDN SM, these parameters should not be populated. It is recommended that no more than a SM total of 128 time slots be used for nail ups if inter SM call processing takes place on this SM.

The following cross-check will verify the integrity of these parameters: for all nonzero values, in descending order, of RLpsiupidb.shts_di1, the bits set in these parameters must satisfy the conditions:

(1) Each set bit can only represent one value (that is, a bit can not be used by more than one shelf).

(2) The set bits must follow the algorithm shown here for each shelf:

```
count <-- RLpsiupidb.shts_di1 #pidb1s <-- count of non-zero pidb_*b where

        corresponding di_pidb == 1



timeslots_available <-- 0 slot_counted[] <-- 0 (array of 32 which indicates how
many

             times a given timeslot has been

             counted for a shelf)



for (ptss=0; ptss < 8; ptss+) {

    for (timeslot=0; timeslot < 32; timeslot++)

    {

       if (bit on in ptss bit map and

          slot_counted[timeslot] <= #PIDB1s)

       {
```

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```
                timeslots_available++;

                slot_counted[timeslot]++;

            }

        }

    }

    assert (count <= timeslots_available)
```

This parameter is unused by SM-2000. It will initially be populated with default (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gldi1_5ptss */
for pcr in sm_all
begin
        for modatt in RLmodatt
        where (modatt.module == pcr && modatt.unittype is_in {SMSM2000, SMSM2005})
        begin
                /*
                 * If the SM is SM-2000, Gldi1_5ptss must
                 * not be used, therefore should always be
                 * set to 0.  If an SM, full range of
                 * values including 0 is valid.
                 */
```

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```
                Gldi1_5ptss on pcr == 0;
        end
end
```

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# Gldi1_6ptss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldi1_6ptss | FP | DMulong |

### 1.1 Gldi1_6ptss

Global Office Parameter Gldi1_6ptss

### 1.2 Description

These parameters are the PSU time slot set bit masks. These parameters are used to reserve TSIU time slots for use by PSU nail up connections on DI 1. Each bit that is set will reserve a TSIU channel time slot via a tuple in RLcktdata of type PCPSU_TS (see poprules for RLcktdata for more details). At least as many bits must be set as the number of TSIU channel time slots required for nail ups on the PSU PIDBs connecting to DI 1 for the following port types: ISM, RISLU, IP trunks, X.75'/X.75 trunks, XAT, EDSL/OSPS trunks, PSU Pipe (PP), and Speech Handler (SH) trunks (see Gldi1tscnt). If the SM is not an ISDN SM, these parameters should not be populated. It is recommended that no more than a SM total of 128 time slots be used for nail ups if inter SM call processing takes place on this SM.

The following cross-check will verify the integrity of these parameters: for all nonzero values, in descending order, of RLpsiupidb.shts_di1, the bits set in these parameters must satisfy the conditions:

(1) Each set bit can only represent one value (that is, a bit can not be used by more than one shelf).

(2) The set bits must follow the algorithm shown here for each shelf:

```
count <-- RLpsiupidb.shts_di1 #pidb1s <-- count of non-zero pidb_*b where

       corresponding di_pidb == 1



timeslots_available <-- 0 slot_counted[] <-- 0 (array of 32 which indicates how
many

          times a given timeslot has been

          counted for a shelf)



for (ptss=0; ptss < 8; ptss+) {

    for (timeslot=0; timeslot < 32; timeslot++)

    {

        if (bit on in ptss bit map and

           slot_counted[timeslot] <= #PIDB1s)

        {
```

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```
                timeslots_available++;

                slot_counted[timeslot]++;

            }

        }

    }

    assert (count <= timeslots_available)
```

This parameter is unused by SM-2000. It will initially be populated with default (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gldi1_6ptss */
for pcr in sm_all
begin
        for modatt in RLmodatt
        where (modatt.module == pcr && modatt.unittype is_in {SMSM2000, SMSM2005})
        begin
                /*
                 * If the SM is SM-2000, Gldi1_6ptss must
                 * not be used, therefore should always be
                 * set to 0.  If an SM, full range of
                 * values including 0 is valid.
                 */
```

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```
                Gldi1_6ptss on pcr == 0;
        end
end
```

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# Gldi1_7ptss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldi1_7ptss | FP | DMulong |

### 1.1 Gldi1_7ptss

Global Office Parameter Gldi1_7ptss

### 1.2 Description

These parameters are the PSU time slot set bit masks. These parameters are used to reserve TSIU time slots for use by PSU nail up connections on DI 1. Each bit that is set will reserve a TSIU channel time slot via a tuple in RLcktdata of type PCPSU_TS (see poprules for RLcktdata for more details). At least as many bits must be set as the number of TSIU channel time slots required for nail ups on the PSU PIDBs connecting to DI 1 for the following port types: ISM, RISLU, IP trunks, X.75'/X.75 trunks, XAT, EDSL/OSPS trunks, PSU Pipe (PP), and Speech Handler (SH) trunks (see Gldi1tscnt). If the SM is not an ISDN SM, these parameters should not be populated. It is recommended that no more than a SM total of 128 time slots be used for nail ups if inter SM call processing takes place on this SM.

The following cross-check will verify the integrity of these parameters: for all nonzero values, in descending order, of RLpsiupidb.shts_di1, the bits set in these parameters must satisfy the conditions:

(1) Each set bit can only represent one value (that is, a bit can not be used by more than one shelf).

(2) The set bits must follow the algorithm shown here for each shelf:

```
count <-- RLpsiupidb.shts_di1 #pidb1s <-- count of non-zero pidb_*b where

       corresponding di_pidb == 1



timeslots_available <-- 0 slot_counted[] <-- 0 (array of 32 which indicates how
many

          times a given timeslot has been

          counted for a shelf)



for (ptss=0; ptss < 8; ptss+) {

   for (timeslot=0; timeslot < 32; timeslot++)

   {

      if (bit on in ptss bit map and

         slot_counted[timeslot] <= #PIDB1s)

      {  timeslots_available++;
```

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```
            slot_counted[timeslot]++;

         }

      }

   }

   assert (count <= timeslots_available)
```

This parameter is unused by SM-2000. It will initially be populated with default (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gldi1_7ptss */
for pcr in sm_all
begin
        for modatt in RLmodatt
        where (modatt.module == pcr && modatt.unittype is_in {SMSM2000, SMSM2005})
        begin
                /*
                 * If the SM is SM-2000, Gldi1_7ptss must
                 * not be used, therefore should always be
                 * set to 0.  If an SM, full range of
                 * values including 0 is valid.
                 */
                Gldi1_7ptss on pcr == 0;
        end
```

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```
end
```

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# Gldi1tscnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldi1tscnt | FP | DMuchar |

### 1.1 Gldi1tscnt

Global Office Parameter Gldi1tscnt

### 1.2 Description

This parameter records the number of TSIU channel time slots on DI 1 used by the following PSU PIDB nailed up connections: ISM, RISLU, IP trunks, X.75'/X.75 trunks, XAT, PP PSU Pipe (PP), SS7 Signaling Data Links and EDSL trunks. This count should be incremented/decremented whenever the RLpsiupidb.shts_di1 attribute is incremented/decremented. Rules for incrementing/decrementing the RLpsiupidb.shts_di1 is described under attribute description of shts_di[*] in RLpsiupidb poprules file.

This parameter is not used for SM-2000.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
        find == 1 modatt in RLmodatt
        where (modatt.module == current_pcr)
        when_found
                if ((modatt.unittype != SMSM2000)  &&
```

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```
                    (modatt.unittype != SMSM2005)) then
                        Gldi1tscnt is_in {0 thru 256};
                else
                        Gldi1tscnt == 0;
end
```

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# Gldidto

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldidto | FR | DMuchar |

### 1.1 Gldidto

Global Office Parameter Gldidto

### 1.2 Description

This global is for control of the DID fraud feature. It contains the amount of time in minutes that a DID facility will be terminated without receiving answer supervision from the PBX before a DID study record is generated by AMA. If this parameter has a value of 0, then DID study records will not be generated. This parameter is SM redundant. Gldidto is specified in decimal.

***Type:*** DBCHARPAR

***ODBE Access:*** DBGEN

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 5

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 5;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Gldidto.values: */

Gldidto is_in {0 thru 60};
```

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# Gldigtm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldigtm | FR | DMshort |

### 1.1 Gldigtm

Global Office Parameter Gldigtm

### 1.2 Description

Gldigtm is the timer set while waiting for the CCS Subsequent Address Messages (SAM)s after the IAM is received. The value should be the same in every SM. Gldigtm is specified in seconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA should populate with default value for new offices.

***Retrofit Rules:*** ODA should preserve value from database during retrofits and growths.

***Default Rules:***
```
default = 4;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Gldigtm.values: */

Gldigtm is_in {3 thru 5};
```

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# Gldigzero

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldigzero | LP | DMbool |

### 1.1 Gldigzero

Global Office Parameter Gldigzero

### 1.2 Description

Gldigzero determines, for the office, whether digit zero security is to be applied to TLWS talk and monitor connections.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** 0

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard - LP */

;
```

***Checks:***
```
/* RULE about Gldigzero.values: */

        /* no check */ ;
```

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# Gldiorscr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldiorscr | FP | DMchar3 |

### 1.1 Gldiorscr

Global Office Parameter Gldiorscr

### 1.2 Description

This global holds the DIOR Speed Dialing access code, which is the digit sequence keyed by the customer to indicate that the call should receive DIOR Speed Dialing treatment. It is made recent changeable because there is a possibility that it could change during development of the feature; but once the access code has been agreed upon by all carriers, its value should not change as this will be a nationally-used customer interface. The default value listed is the current planned access code. It is group partitioned,
`grp_type = GPD_OSPS and grp_id = 4 (see RLdb_gpdus.P).`

```
    Glsabac, Glvmssc
```

***Type:*** DB4STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** "14"

***AM Initial Value:*** "0"

***CMP Initial Value:*** "0"

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** The bits 23-0 (character values 11 thru 18 and 191 thru 198) in Gloff3 should be copied to Gldiorscr in 5E9.

***Default Rules:***
```
default = "14";
```

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
```

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```
        /* RULE about Gldiorscr.values: */
        Gldiorscr ~== "[1][9]{0,1}[1-8]";

        /* RULE about Gldiorscr: */
        Gldiorscr != Glsabac;   /* 9.1 */
        Gldiorscr != Glvmssc;   /* 9.2 */
end
```

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# Gldispdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldispdb | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Gldispdb

### 1.2 Description:

The Gldispdb global parameter contains an SM's current rlDISPDB tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***NOTE:*** The algorithm in this file must be the same as the algorithm in fc/FCtrigint/FCdispcnt.c which is the init code for Gldispdb. So if the algorithm in this file changes verify that it is consistent with the init code algorithm.

ODA has agreed to make the calculation changes in 5e10 even though the changes were made to this file in 5e11.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as display features are assigned and DNs are shared. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
"env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
```

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```
begin
        Gldispdb is_in {0 thru 32000};
end

        function func() returning int
        begin
                call_rate_acd = 30;
                hold_time_acd = 90;
                call_rate = 5;
                hold_time = 210;

                mu = (3599 + (call_rate *
                     (Gldisplay - Glacdp_cnt + ((Glpribcnt+9)/10))*
                      hold_time)) / 3600;

                if ( mu < 0 )
                then
                begin
                        mu = 0;
                end

                disp_acd = Glacdp_cnt;

                if ( Gldisplay < Glacdp_cnt )
                then
                begin
                        disp_acd = Gldisplay;
                end

                mu = mu + ((3599 + (call_rate_acd * disp_acd *
                            hold_time_acd)) / 3600);

                mu = mu + ((3599 + (call_rate * (Glsdnnum +
                            Gllsdnnum) * 2 * hold_time)) /
                            3600);

                mu = mu + ((3599 + (call_rate * (Glsdnnum +
                            Gllsdnnum) * hold_time * 30 / 100 *
                            3)) / 3600);

                mu = (99 + (mu * 130)) / 100;

                sigma = sqrt(mu);

                safety = 40;
                dispdb = (mu + (5 * sigma)) + safety + Glidispdb;

                if (dispdb > Glbrcsdb) then
                        dispdb = Glbrcsdb;

                return dispdb;
        end

/* RULE about Gldispdb: */
```

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```
if (runucv) then
begin
if (current_pcr is_in sm_all) then
begin
        if (Gldispdb != 0) then
        begin
                find == 1 lpconf in RLlpconfig
                where ((lpconf.smconfig == Glconfigname) &&
                (lpconf.package == GLISDNBRCS))
                when_found
                begin
                       /* Gldispdb is_in {1 thru (DBQNDISPDB -
                        * DBSFDISPDB)}; */
                        Gldispdb is_in {1 thru (32000 - 0)};
                end
        end

        if (count({lpconf in RLlpconfig
           where ((lpconf.smconfig == Glconfigname) &&
           (lpconf.package == GLISDNBRCS)) }) == 0) then
        begin
                Gldispdb == 0;
        end
        else
        begin
                let DISPDB = func();

               /* if (dispdb + Glidispdb <= (DBQNDISPDB -
                * DBSFDISPDB)) then  */
                if (DISPDB + Glidispdb <= (32000 - 0)) then
                begin
                       Gldispdb >= DISPDB;
                end
                else
                begin
                      /* Gldispdb == DBQNDISPDB - DBSFDISPDB; */
                       Gldispdb == 32000 - 0;
                end
        end

end
end
```

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# Gldispdn10

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldispdn10 | LRFR | DMbool |

### 1.1 Gldispdn10

Global Office Parameter Gldispdn10

### 1.2 Description

Force all ROP output messages to display 10-digit TNs whenever telephone numbers are displayed. When the parameter is set to DBYES, 10-digit TNs will always be displayed.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** This parameter is supported by RC and ODA. The value of this parameter is populated by ODA and can be updated via RC View 8.1.

The value of the parameter is reversible. Independent of the setting of the parameter, the switch will always display 10-digit telephone numbers for any TN having a non-unique NXX.

***Retrofit Rules:*** This value should be preserved during a generic retrofit.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* No checks */
```

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# Gldisplay

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldisplay | FP | DMushort |

### 1.1 Gldisplay

Global Office Parameter Gldisplay

### 1.2 Description

This parameter is the count of the number of ISDN terminals on this SM that have a display. This number is determined from the relation rlIS_TERM. It is the count of the number of rlIS_TERM tuples where rlIS_TERM.display = DBYES. This count should be updated whenever a terminal with a display is added to or removed from this SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then

begin

/* RULE about Gldisplay.values: */
Gldisplay is_in {0 thru 65535};

end
```

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# Gldln

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldln | LR | DMbool |

### 1.1 Gldln

Global Office Parameter Gldln

### 1.2 Description:

This parameter is used to indicate to the Message Switch Kernal Process (MSKP) the existence of a Direct Link Node (DLN) in a CCS office. It should be set to DBYES if a DLN exists in the office. A dependency exists on Glccs. If Gldln is set to DBYES, Glccs MUST also indicate that CNI CCS transport hardware is equipped.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** 0

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Gldln.values: */

Gldln is_in {DBYES, DBNO};

BCdln: if (Gldln == DBYES) then
begin
        /* Verify CNI CCS transport is available. */
        Glccs is_in {CC_CNIPLATFORM, CC_ALLPLATFORM};
end
```

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# Gldlneq

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldlneq | LRFR | DMbool |

### 1.1 Gldlneq

Global Office Parameter Gldlneq

### 1.2 Description

This parameter is used as an indicator of which database relations will be read in the AM. Gldlneq should be set to DBNO if the Direct Link Node (DLN) flag (Gldln) is set to DBNO. Gldlneq should be set to DBNO if Gldln is set to DBYES and a DLN is to be 'grown' on the CNI ring. Gldlneq should be set to DBYES if Gldln is DBYES and DLN is retrofitted (ODD). This parameter is SM redundant.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Gldlneq.values: */

Gldlneq is_in {DBNO, DBYES};
```

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# GldIntypes

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| GldIntypes | FP | DMuns4 |

### 1.1 GldIntypes

Global Office Parameter GldIntypes

### 1.2 Description

This parameter is set to the number of datalink Digital Subscriber Line (DSL) types equipped on the SM. It is the count of the number of non-zero global parameters in the following list: Gldascdls, Glrasdls, Glrtrsdls, Glhbsdls, Glvqttydls, Glrttydls, Glaqdls, Glxdbdls, Glapsmnum, Glmsdls, Gleisdl, Gloapdl. This parameter is populated by ODA and RC but does not appear on any view.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0v

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gldlntypes.values: */
Gldlntypes is_in {0 thru 12};

end
```

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# GldIon

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| GldIon | FP | DMbool |

### 1.1 GldIon

Duration Limits feature activation.

### 1.2 Description

This is the feature activation parameter for the OSPS Customer Account Services (CAS) Duration Limits feature, which provides the ability to monitor the duration of a card call and possibly limit the call's duration to an amount specified in the card validation reply received from the AT&T card database. Y means the feature is active. N means the feature is not active. Glivion

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parameters, so FP is specified */
/* here.  The group partitioning should be:               */
/*      RLdb_gpdus.grp_type = GPD_OSPS                    */
/*      RLdb_gpdus.grp_id   = 3                           */
pcrlist = get_gpd_pcrlist (GPD_OSPS,3);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
```

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```
/* RULE about Gldlon.values: */

        /* no check */ ;

/* RULE about Gldlon: */
/* There must be a check to ensure that the Inward Validation ID */
/* parameter Glivion is DBYES before this feature is activated.  */
if (Gldlon == DBYES) then
begin
        Glivion == DBYES;   /* 9.1 */
end

end
```

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# Gldltactn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldltactn | LR | DMdltactn |

### 1.1 Gldltactn

Global Office Parameter Gldltactn

### 1.2 Description

Delete action for trunk circuits. Does not have to be populated. Its contents is changed by the update of the RC/V trunk member view. ODA does not have to populate this parameter.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** RC_REAR

***CMP Initial Value:*** RC_REAR

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = RC_REAR;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Gldltactn.values: */

        /* no check */ ;
```

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# Gldmrvtmr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldmrvtmr | FP | DMuchar |

### 1.1 Fullname:

Global Office Parameter Glmrvtmr

### 1.2 Description:

Gldmrvtmr contains the T1 timer calculation value. The T1 timer is the MTP Route Verification Test acknowledgement guard timer.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 8

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Gldmrvtmr can be modified via MRVT ACK GUARD field on Recent Change view, 16.4 (RC_OMAP) or ODA form RC_OMAP. The timer is stored in units of seconds.

***Retrofit Rules:*** The value of Gldmrvtmr should be preserved over retrofit.

***Default Rules:***
```
default = 8;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        begin
                pcrlist[modatt.module] = true;
        end
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/*
 * This Parameter will be used only on a CCITT7
 * National or International Global SM.
 */

    if ((Glnatl7sm == current_pcr) ||
```

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```
        (Glintl7sm == current_pcr)) then
    begin
        Gldmrvtmr is_in {8 thru 15};
    end
    else
    begin
        Gldmrvtmr == 8;
    end
end
```

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# Gldn_priv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldn_priv | FR | DMbool |

### 1.1 Gldn_priv

Global Office Parameter Gldn_priv

### 1.2 Description

This parameter is used to indicate whether Directory Number (DN) privacy is on for the office. Two different precedence lists are used to determine All Call privacy. The activation status of special feature Calling Party Number Presentation (CPNP) determines which precedence list is used. In either case, a Per-Call Privacy dialed code (if allowed) will toggle the ACP result.

CPNP not active

If the CPNP feature is not active and Gldn_priv is set to DBNO, DN privacy is not turned on for the office but is turned on individually for each terminal (analog or ISDN), if DN privacy is assigned to the terminal. Calling DNs can be displayed at those ISDN terminals that have the Calling Number Delivery feature. If this parameter is set to DBYES, the calling DN will not be displayed even if the terminal has the Calling Number Delivery feature. This parameter should be used when the office does not have all-call DN privacy assigned properly to the terminals in the office. In this way the calling DNs will not be displayed until the data in the office has been set up correctly.
CPNP active

If the CPNP feature is active, the following precedence list is used.

```
Q.931   |*Line  |**Screen | Gldn_priv | Result

Message |       |  Index  |           |

--------|-------|---------|-----------|-------

public  | don't | don't   |  don't    | public

        | care  | care    |  care     |

-----------------------------------------------

private | don't | don't   |  don't    | private

        | care  | care    |  care     |

-----------------------------------------------

   not  | pub   | don't   |  don't    | public

 rec'vd |       | care    |  care     |

-----------------------------------------------

   not  | priv  | don't   |  don't    | private
```

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```
 rec'vd |       | care    |  care     |
-------------------------------------------
   not  | not   | pub     |  don't    | public
 rec'vd | set   |         |  care     |
-------------------------------------------
   not  | not   | priv    |  don't    | private
 rec'vd | set   |         |  care     |
-------------------------------------------
   not  | not   | not     |  pub      | public
 rec'vd | set   | set     |           |
-------------------------------------------
   not  | not   | not     |  priv     | private
 rec'vd | set   | set     |           |
-------------------------------------------
```

* RLfc_line.privacy

** RLscridxpa.acp_ind This parameter is SM redundant.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:*** standard

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***Checks:***

```
/* RULE about Gldn_priv.values: */

Gldn_priv is_in {DBNO, DBYES};
```

# Gldnradest

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldnradest | FR | DMuns12 |

### 1.1 Gldnradest

DIOR Network Remote Access Destination Index

### 1.2 Description

Destination Index for the DIOR Network Remote Access (NRA) feature

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5e9_2 or 5e10, this parameter must be set to the value in Gloff5{12:23}.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gldnradest.values: */

if (Glspfeat{28} == 1) then
begin
        /* cannot be 0 when DIOR NRA feature is active */
        Gldnradest != 0;
end
```

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# Gldnrarte

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldnrarte | FR | DMrteidx |

### 1.1 Gldnrarte

DIOR Network Remote Access Routing Index

### 1.2 Description

Routing Index for the DIOR Network Remote Access (NRA) feature

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5e9_2 or 5e10, this parameter must be set to the value in Gloff5{0:11}.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
AVextern.R
```

***Checks:***
```
/* RULE about Gldnrarte.values: */

if (Glspfeat{28} == 1) then
begin
        /* cannot be 0 when DIOR NRA feature is active */
        Gldnrarte is_in {1 thru AVRIMAX()};
end
else
begin
        /* full range allowed when feature not active */
        Gldnrarte is_in {0 thru AVRIMAX()};
```

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```
end
```

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# Gldnucnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldnucnt | LR | DMshort |

### 1.1 Gldnucnt

Global Office Parameter Gldnucnt

### 1.2 Description

This parameter contains the number of digital networking unit-SONET (DNU-S)s in the office.

***Type:*** DBSHORTPAR

***ODBE Access:***

***DBGEN:***

***Classification:*** EQUIPMENT

***IOTYPE:*** ---

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***
```
/* none */
```

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gldnucnt: */

        Gldnucnt == sum(Glsmdnucnt on sm_all);
```

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# Gldnupmcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldnupmcnt | FP | DMshort |

### 1.1 Gldnupmcnt

Global Office Parameter Gldnupmcnt

### 1.2 Description

This parameter contains the number of performance monitoring groups that are defined for Digital Networking Unit-SONET (DNU-S) facilities in an SM. DNU-S facilities may only be equipped in an SM-2000.

***Type:*** DBSHORTPAR

***ODBE Access:***

***DBGEN:***

***Classification:***

***IOTYPE:*** ---

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***
```
/* none */
```

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Populate on all SMs */

for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Gldnupmcnt: */

/*
 * There is one tuple in RLfacthrsh for each performance
 * monitoring group that has facilities assigned on this SM.
 * Only count the groups associated with DNU-S facilities.
 */
```

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```
if (current_pcr is_in {1 thru 192}) then
Gldnupmcnt == count { facthrsh in RLfacthrsh
      where (facthrsh.ckttype is_in { PCSTEFAC, PCVT1FAC, PCDS1SFAC } ) };

/*
 * Each tuple in RLfacthrsh corresponding to a DNU-S facility type
 * has a corresponding set of thresholds in the DNU-S. Since the
 * DNU-S has a limited memory, we need to limit the number of
 * PM goups for DNU-S facilities that are created in the SM.
 */
if (current_pcr is_in sm_all) then
begin
     Gldnupmcnt is_in { 0 thru 50 };
end
```

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# Gldoddea

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldoddea | LP | DMulong |

### 1.1 Gldoddea

Global Office Parameter Gldoddea

### 1.2 Description

Gldoddea is the ending address of the Unprotected ODD.

The value of Gldoddea should be DBundb[] + (DBunblocks * DBBSIZE) - 1.

***NOTE:*** DBBSIZE is the size in bytes of an ODD block.

***Type:*** DBULONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard - LP */

        ;
```

***Checks:***

```
/* RULE about Gldoddea.values: */

        /* no check */ ;
```

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# Gldoddsa

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldoddsa | LP | DMulong |

### 1.1 Gldoddsa

Global Office Parameter Gldoddsa

### 1.2 Description

Gldoddsa is the starting address of the Unprotected ODD. This value should be the same as the address of DBundb[].

***Type:*** DBULONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard - LP */

        ;
```

***Checks:***

```
/* RULE about Gldoddsa.values: */

        /* no check */ ;
```

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# Gldomacmtr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldomacmtr | FR | DMuns13 |

### 1.1 Gldomacmtr

Global Office Parameter Gldomacmtr

### 1.2 Description

This parameter specifies the time delay interval, in increments of milliseconds, between requesting that an Address Complete Message (ACM) be sent, and the initial request to connect to an announcement circuit, automated position, or operator position. This timer is used for incoming SS7 signaled domestic calls to the OSPS.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 100

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e9.2 or 5e10.1 this parameter must be set to the value in bits 0 - 15 in Gloff8.

***Default Rules:***
```
default = 100;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gldomacmtr.values: */

Gldomacmtr is_in {0 thru 5000};
```

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# Gldomanntr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldomanntr | FR | DMuns7 |

### 1.1 Gldomanntr

Global Office Parameter Gldomanntr

### 1.2 Description

This parameter specifies the waiting time interval, in increments of tenths of seconds, before starting to outpulse Domestic Format Called Number calls after the AT&T Thank You Branding announcement is requested to be played. The valid range is 0 thru 80 tenths of seconds, with a default of 80.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 80

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e9.1 or 5e9.2, this parameter must be set to the value in bits 0 - 6 in Gloff6.

***Default Rules:***
```
default = 80;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gldomanntr.values: */

Gldomanntr is_in {0 thru 80};
```

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# Gldomtimer

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldomtimer | FR | DMuns7 |

### 1.1 Gldomtimer

Global Office Parameter Gldomtimer

### 1.2 Description

This parameter specifies the waiting time interval, in increments of tenths of seconds, before starting to outpulse a domestic forward number calls after the Announcement A1 is requested to be played. The valid range is 0 thru 80 tenths of seconds, with a default of 80.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 80

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e10.1, this parameter must be set to the value in bits 18 - 24 in Gloff6.

***Default Rules:***
```
default = 80;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gldomtimer.values: */

Gldomtimer is_in {0 thru 80};
```

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# Gldomwt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldomwt | FR | DMuns7 |

### 1.1 Gldomwt

Domestic wait period for DIOR Sequence Call Enhancements

### 1.2 Description

This parameter is used for the DIOR sequence call enhancements feature. This parameter is the amount of time to wait before playing a DIOR Sequence Call announcement on a domestic call. Currently, the default value is 36, with the capability of being changed to 1 - 120.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 36

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5e9_1 or 5e9_2: Bits 9 - 15 of Gloff2 must be copied to this global.

***Default Rules:***
```
default = 36;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gldomwt.values: */

Gldomwt is_in {1 thru 120};
```

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# Gldotto

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldotto | FR | DMbool |

### 1.1 Gldotto

DIOR Offer Transfer To Operator Activation

### 1.2 Description

DIOR Offer Transfer To Operator (OTTO) activation indicator for DIOR sequence call enhancements.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5e9_1 or 5e9_2, this parameter must be set to the value in Gloff2{5}.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gldotto.values: */

        /* no checks */
```

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# Gldpclsrpt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldpclsrpt | FP | DMbool |

### 1.1 Gldpclsrpt

Global Office Parameter Gldpclsrpt

### 1.2 Description

This parameter specifies whether DPC/LS (OPST ACDPC) output report will be printed when DPC to link set data is changed. Currently, this report is printed automatically for the BT7 signaling system only.

This parameter is only used by the national version of SS7. It is used on any SM indicated by Glnatl7sm when Glnatl7sm is not equal to 0 on that SM.

The report will not be printed if equal to DBNO. The report will be printed if equal to DBYES.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** In the situation of multiple Global SM's, the parameter should be populated with the same value over all Global SM's.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
for i in {1 thru 192}
begin
      if (Glnatl7sm on sm(i) != 0) then
      begin
              pcrlist[Glnatl7sm] = true;
      end
end
```

***Checks:***
```
/* none */
```

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# Gldptfdest

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldptfdest | FR | DMdestidx |

### 1.1 Fullname:

DIOR Personal Toll Free Destination Index

### 1.2 Description:

This global parameter contains the destination index for the DIOR Personal Toll-Free Numbers feature. This destination index is used instead of the usual destination index from digit analysis.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5e12_1i or 5e13_1y, this parameter must be set to the value in Gloff8{0:11}.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* No checks */
```

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# Gldptfrte

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldptfrte | FR | DMrteidx |

### 1.1 Fullname:

DIOR Personal Toll Free Route Index

### 1.2 Description:

Route index for the DIOR Personal Toll-Free Numbers feature. This route index is used instead of the usual route index from digit analysis.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5e12_1i or 5e13_1y, this parameter must be set to the value in Gloff8{12:25}.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* no checks */
```

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# Gldraintm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldraintm | LR | DMuns2 |

### 1.1 Gldraintm

Global Office Parameter Gldraintm

### 1.2 Description

This parameter indicates the allowed time interval in minutes for draining call queues on any serving teams in the office undergoing interflow activation. This parameter is specified by the OSPS administrator using the OSPS office parameter RC/V view or ODBE.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0v

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Gldraintm.values: */

Gldraintm is_in {0 thru 3};
```

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# Gldrcounttype

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldrcounttype | LR | DMdrenum |

### 1.1 Gldrcounttype

Global Office Parameter Gldrcounttype

### 1.2 Description

Controls on Division of Revenue. This parameter determines which type of counts should be reported by the Traffic Separations package. MSDPEG means only report peg counts, MSDUSAGE means only report usage, and MSDBOTH means report both peg counts and usage.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** MSDBOTH

***CMP Initial Value:*** MSDBOTH

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Gldrcounttype.values: */

Gldrcounttype is_in {MSDPEG, MSDUSAGE, MSDBOTH};
```

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# Gldron

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldron | LR | DMbool |

### 1.1 Gldron

Global Office Parameter Gldron

### 1.2 Description

Controls on Division of Revenue. This parameter determines if the Traffic Separations package should be active. DBYES means have the package active, DBNO means have it inactive.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Gldron.values: */

Gldron is_in {DBYES, DBNO};
```

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# Gldscbk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldscbk | LR | DMbool |

### 1.1 Gldscbk

Global Office Parameter Gldscbk

### 1.2 Description

This parameter is used to indicate if the office receives error messages when deleting a Directory Number that is a member of a Series Completion linked list(that is, when BCKLNK is DBYES).

If set to DBYES, no error message will be shown, and the series completion backlinks will be removed automatically when such a DN is deleted. If set to DBNO, an error message will be given when deleting a DN that is a member of a Series Completion linked list, and the user will need to enter the update mode, set BCK LNK field on RC/V view to DBNO (which will remove the backlinks) and then do the deletion of the DN.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** 0

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** ODA should preserve the existing value in Retrofit.

***Default Rules:***

```
default = DBYES;
```

The default value for this parameter is DBYES, which means Series Completion backlinks, if they exist, will be removed automatically (no error message given) before any DN is deleted.

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Gldscbk.values: */

        /* no check */ ;
```

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# Gldsk_sze

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldsk_sze | LR | DMshort |

### 1.1 Gldsk_sze

Global Office Parameter Gldsk_sze

### 1.2 Description

Gives amount of disk space available for the disk-resident ODD in kilobytes. This is an ODA supported parameter. Its value must be a multiple of 16K and may vary depending on the disk configuration. There are two disk configurations. The values for Gldsk_sze are as follows:

```
Disk Configuration    Gldsk_sze

     63,66              8992K
```

The determination of which configuration an office should use is based on formulas found in 5 DOPS or the Switch Administration Guidelines. These formulas are based on total SM ODD, Disk ODD, and AMA storage requirements.

RLsmconf.oddpart has an additional section describing in detail the 63 and 66 disk configurations.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 8992

***CMP Initial Value:*** 8992

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Gldsk_sze.values: */

        /* no check */ ;
```

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# GldsIcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| GldsIcnt | FP | DMushort |

### 1.1 GldsIcnt

Global Office Parameter GldsIcnt defines: "db/DMportindx.h"

### 1.2 Description

GldsIcnt is the number of Digital Subscriber Loops and Extended Digital Subscriber Lines (also called Primary Rate Interfaces) equipped on this module. This is determined by the number of D-Channel tuples in the RLdslequip relation. If there are no D-Channel RLdslequip tuples, GldsIcnt should be zero.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by RC and ODA. It is established by ODA and will be updated by RC as DSLs are inserted or deleted. Its value can increase and decrease.

***Retrofit Rules:*** This parameter should be determined algorithmically for a retrofit to 5E5 and future generics as outlined in the ODA population section.v

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gldslcnt.values: */

Gldslcnt is_in {0 thru 65535};

end
```

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```
/* RULE about Gldslcnt: */
if (current_pcr is_in { 1 thru 192 }) then
begin
        /* Define a find_tup macro that checks RLfc_porttyp for
         * a tuple with a specific service class.
         */
        let find_tup(dsl, pcr) =
                find == 1 fc_porttyp in RLfc_porttyp on pcr
                where ((fc_porttyp.port.member == dsl) &&
                       (fc_porttyp.port.module == pcr) &&
                       (fc_porttyp.port_indx {0:1} == $GLDCH) &&
                       (fc_porttyp.servclass is_in { AS_OAP,
                                                     FC_DASC,
                                                     FC_EIS_LNK,
                                                     FC_HOBIS,
                                                     FC_HOTRT,
                                                     FC_HOTVT,
                                                     FC_ISATND,
                                                     FC_ISDN,
                                                     FC_RTRS,
                                                     HM_RAS,
                                                     OA_AQDSL,
                                                     OA_DAOPER,
                                                     OA_MIS_LNK,
                                                     OA_TAOPER,
                                                     PS_APDSL,
                                                     TM_XDB    })));

        /* Loop through the dsl's in RLdslequip and count the number
         * of RLdslequip tuples that have RLfc_porttyp tuples with
         * one of the previous service classes.
         */
        let bri_part = count { dsl in RLdslequip.dsl
                where(find_tup(dsl, current_pcr) == true) };

        let pri_part = count { dslequip in RLdslequip
                               where (dslequip.l2prof is_in { PSEDSL,
                                                              PSIFPRI,
                                                              PSSTDPRI }) };
        Gldslcnt == bri_part + pri_part;

end
```

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# Gldsnopt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldsnopt | LRFR | DMbool |

### 1.1 Gldsnopt

Global Office Parameter Gldsnopt

### 1.2 Description

The Defense Switched Network (DSN) is the command, control, and administrative network for the Department of Defense. The DSN will evolve from the present analog AUTOmatic VOice Network (AUTOVON), which is a private military telecommunications network that provides its subscribers services similar to the public network, as well as some unique features specific to military applications. A DSN switch is a dedicated facility that is either owned by or leased to the Department of Defense.

Switches in the DSN are of 3 types:

- A DSN END Office Switch performs the functions of a military Dial Central Office or PABX, and functions as a terminating office in the DSN.
- A stand alone Nodal Switch functions primarily as a tandem in the DSN.
- A Multifunction Nodal Switch has the combined functions of a DSN tandem node and a DSN END office switch.

An AUTOVON Interface Switch has the capability of accessing the present AUTOVON network, but can also be part of a public network switch.

Parameter Gldsnopt specifies whether or not this office is a DSN switch. If this office is a DSN switch, this parameter is set to DBYES. If this office is a non-DSN switch, this parameter is set to DBNO. For AUTOVON interface switches, Gldsnopt is set to DBNO. For DSN Nodal or Multifunction switches, this parameter is set to DBYES. For any other switches not in a DSN, this parameter is set to DBNO.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** The attribute 'dsnarc_id' in relation RLrt_trkg should be 0 for all tuples if this parameter is set to DBNO.

***Retrofit Rules:*** not applicable

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***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Gldsnopt.values: */

if (current_pcr == 0) then
begin
        Gldsnopt is_in {DBYES, DBNO};
end

/* RULE about GLdsnopt:
 *
 * Both PVOPOLY and PVODSN are needed to be able to provide DSN service.
 *
 * The following layout summarizes the relationships among the Defense
 * Switch Network feature, the DSN Polygrid Routing Feature, and
 * Gldsnopt values.
 *
 *        PVOPOLY | PVODSN | Gldsnopt
 *      ----------------------------
 * case 1    yes  |  yes   |   yes
 * case 2    yes  |  yes   |   no
 * case 3    yes  |  no    |   no
 * case 4    no   |  yes   |   no
 * case 5    no   |  no    |   no
 *
 */

if (current_pcr == 0) then
begin
        /*
         * Determine whether polygrid is allowed to be configured
         * in this office.
         */
        if (count { apconf in RLapconf
                    where ((apconf.feature == PVOPOLY) &&
                           (apconf.smconfig == CONFIGMAX) &&
                           ((apconf.ofcmap & Glproduct) != 0)) } == 0) then
        begin
                Gldsnopt == DBNO;
        end

        /*
         * Since the PVODSN feature is on a load configuration basis,
         * for Gldsnopt to be DBYES, one or more SMs in the office must
         * have a load configuration that permits the PVODSN feature.
         */

        if (Gldsnopt == DBYES) then
        begin
```

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```
                /*
                 * Construct an array containing all unique SM load
                 * configurations for the given office.
                 *
                 * PRL note: sm_all is required.  The Glconfigname
                 *           values from all SMs must be considered.
                 */
                let UNIQ_SMCONF = uniq(Glconfigname on sm_all);

                /*
                 * One or more SMs in the office must have a load
                 * configuration that includes the DSNCOMON loadable
                 * package.
                 */
                find > 0 lpconf in RLlpconfig
                         where ((lpconf.smconfig is_in UNIQ_SMCONF) &&
                                (lpconf.package == GLDSNCOMON));

                /*
                 * One or more SMs in the office must have a load
                 * configuration that permits the PVODSN feature.
                 */
                find > 0 apconf in RLapconf
                         where ((apconf.feature == PVODSN) &&
                                (apconf.smconfig is_in UNIQ_SMCONF) &&
                                ((apconf.ofcmap & Glproduct) != 0));
        end
end
```

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# Gldsrvtmr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldsrvtmr | FP | DMuchar |

### 1.1 Fullname:

Global Office Parameter Glsrvtmr

### 1.2 Description:

Gldsrvtmr contains the T1 timer calculation value. The T1 timer is the SCCP Route Verification Test acknowledgement guard timer.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 8

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Gldsrvtmr can be modified via the SRVT ACK GUARD field on Recent Change view 16.4 (RC_OMAP) or via ODA form RC_OMAP. The timer is stored in units of seconds.

***Retrofit Rules:*** The value of Gldsrvtmr should be preserved over retrofit.

***Default Rules:***
```
default = 8;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        begin
                pcrlist[modatt.module] = true;
        end
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/*
 * This Parameter will be used only on a CCITT7
 * National or International Global SM.
 */
    if ((Glnatl7sm == current_pcr) ||
        (Glintl7sm == current_pcr)) then
```

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```
    begin
        Gldsrvtmr is_in {8 thru 15};
    end
    else
    begin
        Gldsrvtmr == 8;
    end
end
```

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# Gldsspeed

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldsspeed | LR | DMshort |

### 1.1 Gldsspeed

Global Office Parameter Gldsspeed

### 1.2 Description

Gldsspeed indicates the speed to be used by CCS Direct Signaling. The value for this parameter is either 48 or 560 (this corresponds to 4800 bps or 56000 bps). ODA should populate with the default value for new office.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 48

***CMP Initial Value:*** 48

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** Preserve the values from database during retrofits and growths.

***Default Rules:***
```
default = 48;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Gldsspeed.values: */

        /* no check */ ;
```

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# Gldsu2qtout

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldsu2qtout | FR | DMuns5 |

### 1.1 Gldsu2qtout

Global Office Parameter Gldsu2qtout

### 1.2 Description

Digit Services Unit 2 (DSU2) - Recorded announcement facility - Dial through announcement DSU2 maximum time allowed in the queue. Gldsu2qtout is specified in seconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 20;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Gldsu2qtout.values: */

Gldsu2qtout is_in {3 thru 20};
```

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# Gldt_dly

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldt_dly | FR | DMuns4 |

### 1.1 Fullname:

WCTX dial tone delay global parameter

### 1.2 Description:

This global parameter is used by the WCTX ATP process to determine the dial tone delay.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBYES

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter is fully supported by RC.
This parameter is not supported by ODA.

***Retrofit Rules:*** For non-WNC office, the value of this parameter must be set to zero.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* No Checks */
```

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# Gldt1

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldt1 | FP | DMbool |

### 1.1 Gldt1

Global Office Parameter Gldt1

### 1.2 Description

Flag for primary dt after AC. Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gldt1.values: */
Gldt1 is_in {DBYES, DBNO};

end
```

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# Gldto_o

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldto_o | LR | DMlong |

### 1.1 Gldto_o

Global Office Parameter Gldto_o

### 1.2 Description

This parameter provides the calibration adjustment for the TLWS distance-to-open test. This is the amount (in feet) that the distance-to-open return value is adjusted to take out the office-to-office variance in the distance from the DCTU to the MDF.

ODA should populate the default value for this parameter. When the switch is installed, switch personnel will determine the correct value for this parameter by creating an artificial open on a line at a known distance from the MDF. This parameter will be modified until the returned results from the DTO test and the artificial open agree. Gldto_o is specified in feet.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting to the 5E5(1) generic, the value of this parameter needs to be taken from the global parameter Glcp7dummy. The value of Gldto_o should be preserved for generic retrofits after 5E5.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Gldto_o.values: */

Gldto_o is_in {-65535 thru 65535};
```

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# Glduphc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glduphc | FR | DMbool |

### 1.1 Glduphc

Global Office Parameter Glduphc

### 1.2 Description

Specifies whether duplicate data should be sent over a duplicate set of printer lines to the HOBIC.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glduphc.values: */

        /* no check */ ;
```

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# Gldvmsfwd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gldvmsfwd | FR | DMdn |

### 1.1 Gldvmsfw

DIOR Voice Messaging Service Forward Number

### 1.2 Description

VMS Forward Number for DIOR and wireless calls.

***Type:*** DBDN_PAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** {10,"8005626275"}

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter cannot be other than a 10-digit number.

***Retrofit Rules:*** When retrofitting from 5e10, this parameter must be set as follows:

***Default Rules:***
```
default.digcnt = 10;

default.dn = "8005626275";
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gldvmsfwd.values: */

Gldvmsfwd.digcnt == 10;
```

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## 3.16 Gle

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# Gle9cesid

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gle9cesid | FR | DMe9cesid |

### 1.1 Gle9cesid

Global Office Parameter Gle9cesid

### 1.2 Description

This global parameter will be used to determine if the Calling Party Number (CPN) or Billing Number (BN) should be used for an E911 call. This global parameter will be used for the CPN Delivery on E911 Calls Special Feature.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBBN

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Since CPN Delivery on E911 Calls feature is a secured feature, this parameter must be BN, if this feature has not been purchased (#SFID116).

***Retrofit Rules:***

```
Retrofit from 5E9 to 5E9(2):

---------------------------

The value of Glsf4dummy should be carried over to

Gle9cesid as follows:
DBNO - > DBBN and DBYES - > DBCPN.

Reset Glsf4dummy = DBNO
```

***Default Rules:***

```
default = DBBN;
```

***Distribution Rules:***

```
This parameter is set on an office basis (SM redundant).
```

***Checks:***

```
/* RULE about Gle9cesid.values: */
```

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```
Gle9cesid is_in {DBBN, DBCPN};
```

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# Gle911apid

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gle911apid | LRFR | DMapzsite |

### 1.1 Gle911apid

Enhanced 911 Applications Processor Identification

### 1.2 Description

This global parameter is used to identify the Applications Processor (AP) used in processing an E911 call.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This Office Parameter will be populated based on the RC/V view 24.7. This view will have a 'E911 SITE' boolean. If this bool is set to DBYES then this parameter should be set to the APID on that view. There can be only one instance of the bool being set to DBYES.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Gle911apid.values: */

Gle911apid is_in {0 thru 255};

/* RULE about Gle911apid: */
if (Gle911op == E9_ESA) then
begin
        Gle911apid != 0;
end
```

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# Gle911cnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gle911cnt | FP | DMushort |

### 1.1 Fullname:

Enhanced 911 Counts

### 1.2 Description:

The Gle911cnt global parameter contains an SM's current rlE911DB tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as E911 line or trunk SFGs are assigned, E911 dedicated or CAMA trunks are assigned, ISDN PSAPs are assigned, the number of SM time slots is changed or the corresponding incremental global parameter (Glie911db) is changed. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
"env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gle911cnt.values: */
```

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```
        /* Gle911cnt is_in {0 thru (DBQNE911DB - DBSFE911DB)}; */
Gle911cnt is_in {0 thru (2047 - 0)};

end


/* RULE about Gle911cnt: */

function func() returning int
begin

        bridgers  = 3/2;   /* Assumed number of bridgers
        call_rate = 3;     /* E911 calls per second
        hold_time = 24;    /* Holding time until answer
        occupancy = 8/10;  /* Assume busy time of PSAPs is 80 %

        origline = 0;
        origtrk = 0;
        dedtrks  = 0;
        orig1 = 0;
        ISDNterm = 0;
        CAMAterm = 0;
        n_term = 0;
        n_orig = 0;
        n_total = 0;
        e911cnt = 0;

        if (count { e911_sfg in RLe911_sfg
                    where (e911_sfg.sfg_type == SFGE911LNE) } == 1)
        then
        begin
                find == 1 e911_sfg in RLe911_sfg
                where (e911_sfg.sfg_type == SFGE911LNE)
                when_found
                begin
                        origline = e911_sfg.sfg_size;
                end
        end

        if (count { e911_sfg in RLe911_sfg
                    where (e911_sfg.sfg_type == SFGE911TRK) } == 1)
        then
        begin
                find == 1 e911_sfg in RLe911_sfg
                where (e911_sfg.sfg_type == SFGE911TRK)
                when_found
                begin
                        origtrk = e911_sfg.sfg_size;
                end
        end

        if (count { e911_cnt in RLe911_cnt } == 1)
        then
        begin
```

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```
                find == 1 e911_cnt in RLe911_cnt
                where (e911_cnt.sm == current_pcr)
                when_found
                begin
                        dedtrks  = e911_cnt.dedtrk_cnt;
                        CAMAterm = e911_cnt.psap_cnt *
                                   occupancy;
                        ISDNterm = e911_cnt.ipsap_cnt *
                                   occupancy * bridgers;
                end
        end
        else
        begin
                dedtrks  = 0;
                CAMAterm = 0;
                ISDNterm = 0;
        end

        orig1 = origline + origtrk + dedtrks;
        mu = call_rate * hold_time;
        sigma = sqrt(mu);
        orig2 = mu + (5 * sigma);
        n_orig = min {orig1, orig2};

        n_term = CAMAterm + ISDNterm;

        n_total = n_orig + n_term;

        e911cnt = min {n_total, Glphdbnum};
        return e911cnt;

end

if (runucv) then
begin
if (current_pcr is_in sm_all) then
begin
        let E911CNT = func();

        /* if (E911CNT + Glie911db <= (DBQNE911DB - DBSFE911DB)) then   */
        if (E911CNT + Glie911db <= (2047 - 0)) then
        begin
                Gle911cnt >= E911CNT + Glie911db;
        end
        else
        begin
        /*      Gle911cnt == DBQNE911DB - DBSFE911DB;   */
                Gle911cnt == 2047 - 0;
        end
end
end
```

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# Gle911das

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gle911das | FR | DMda_tree |

### 1.1 Fullname:

Enhanced 911 Digit Analysis Selector

### 1.2 Description:

This global parameter is associated with the processing of an Enhanced 911 call. It is used to specify the DAS to be used following a response to an ESN query for calls originating on trunks.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Gle911das.values: */

Gle911das is_in {0 thru 99};

/* RULE about Gle911das: */

/* If the E9_ESA or E9_NONESA option is selected,
* the following must already be true:
*
*   - E911 DAS defined
```

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```
*   - E911 line SFG defined
*   - E911 screening index defined
*   - E911 trunk SFG defined
*   - RLe911sa relation must have exactly one tuple defined per SM with
*     DAS of 0
*   - A tuple in RLtonetime where tonetype is PCHIGH120, timeind is DBNO,
*     and time is 0
*/
if (Gle911op is_in {E9_ESA, E9_NONESA}) then
begin
        Gle911das != 0;
        Gle911scnx != 0;
        find == 1 e911_sfg in RLe911_sfg
        where (e911_sfg.sfg_type == SFGE911LNE);
        find == 1 e911_sfg in RLe911_sfg
        where (e911_sfg.sfg_type == SFGE911TRK);
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                if (runucv) then
                find == 1 e911sa in RLe911sa on  modatt.module
                where (e911sa.sm == modatt.module &&
                    e911sa.das == 0);
        end
        find == 1 tonetime in RLtonetime
        where (tonetime.tonetype == PCHIGH120)
        when_found
        begin
                tonetime.timeind == DBNO;
                tonetime.time == 0;
        end
end

/* If the E9_ESA option is selected, then the APID must be present
*/
if (Gle911op == E9_ESA) then
begin
        Gle911apid != 0;
end
```

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# Gle911lnsfg

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gle911lnsfg | LRFR | DMgrupnm |

### 1.1 Gle911lnsfg

Enhanced 911 Line Simulated Facilities Group

### 1.2 Description

This office parameter is used to store the E911 Line SFG group number. This parameter is used in the CMP or the VCDX SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
AVextern.R
```

***Checks:***
```
/* RULE about Gle911lnsfg.values: */

Gle911lnsfg is_in {0 thru AVSFGRPS()};
```

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# Gle911op

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gle911op | LRFR | DMe911op |

### 1.1 Fullname:

Enhanced 911 Option

### 1.2 Description:

This global parameter is used to indicate if the office has Enhanced 911 service with an E911 Service Adjunct (E9_ESA), E911 service without an ESA(E9_NONESA) or Non E911 office (E9_INACT).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** E9_INACT

***AM Initial Value:*** E9_INACT

***CMP Initial Value:*** E9_INACT

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = E9_INACT;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
env.R,
chk_apperm.R
```

***Checks:***
```
/* RULE about Gle911op.values: */

        /* no check */ ;

/* RULE about Gle911op: */

/* If the E9_ESA or E9_NONESA option is selected,
* the following must already be true:
*
```

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```
*   - E911 DAS defined
*   - E911 line SFG defined
*   - E911 screening index defined
*   - E911 trunk SFG defined
*   - RLe911sa relation must have exactly one tuple defined per SM with
*     DAS of 0
*/
if (Gle911op is_in {E9_ESA, E9_NONESA}) then
begin
        Gle911das != 0;
        Gle911scnx != 0;
        find == 1 e911_sfg in RLe911_sfg
        where (e911_sfg.sfg_type == SFGE911LNE);
        find == 1 e911_sfg in RLe911_sfg
        where (e911_sfg.sfg_type == SFGE911TRK);
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
               modatt.module is_in sm_all)
        begin
                if (runucv) then
                find == 1 e911sa in RLe911sa on  modatt.module
                where (e911sa.sm == modatt.module &&
                    e911sa.das == 0);
        end
end

/* If the E9_ESA option is selected, then the APID must be present
 */
if (Gle911op == E9_ESA) then
begin
        Gle911apid != 0;
end

/* RULE about E911 permitted by office type */
if (c_aperm(PVOE911,CONFIGMAX) == false) then
begin
        Gle911op == E9_INACT;
end
```

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# Gle911scnx

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gle911scnx | FR | DMscrnidx |

### 1.1 Gle911scnx

Global Office Parameter Enhanced 911 screen index

### 1.2 Description

This parameter contains the screening index used in conjunction with the routing of Enhanced 911 calls.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Gle911scnx.values: */

Gle911scnx is_in {0 thru 4095};

/* RULE about Gle911scnx: */
/*
 * In E911 states Gle911scnx should be set.
*/
if (Gle911op is_in {E9_ESA, E9_NONESA}) then
begin
        Gle911scnx != 0;
end
```

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# Gle911sec

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gle911sec | LRFR | DMapzsite |

### 1.1 Fullname:

Enhanced 911 Secondary Applications Processor Identification

### 1.2 Description:

This global parameter is used by the Dual ESA for E911 special feature to identify the backup E911 Applications Processor (AP), also known as an Emergency Services Adjunct (ESA): Gle911apid, Gle911op.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This office parameter will be populated based on the RC/V View 24.7. If the SEC E911 SITE field is set to Y, then this parameter should be set to the APID on that view. There can only be one instance of SEC E911 SITE being set to Y.

***Retrofit Rules:*** 5E8 to 5E9: This parameter is new to 5E9 and frees up the spare globals used in 5E8. This parameter must be made equal to the value held by Glsf10dumm in 5E8.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gle911sec.values: */
        /* no check */ ;
/* RULE about Gle911sec: */
if (Gle911sec != 0) then
begin
        Gle911apid != 0;
        Gle911apid != Gle911sec;
        Gle911op == E9_ESA;
end
```

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# Gle911tksfg

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gle911tksfg | LRFR | DMgrupnm |

### 1.1 Gle911tksfg

Enhanced 911 Trunk Simulated Facilities Group

### 1.2 Description

This office parameter is used to store the E911 Trunk SFG group number. This parameter is used in the CMP or the VCDX SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
AVextern.R
```

***Checks:***
```
/* RULE about Gle911tksfg.values: */

Gle911tksfg is_in {0 thru AVSFGRPS()};
```

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# Gleadopt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gleadopt | LR | DMbool |

### 1.1 Gleadopt

Global Office Parameter Gleadopt

### 1.2 Description

Indicates whether or not the office has the EDAS option. DBYES if the office has an EDAS data link. DBNO if the office does not have an EDAS data link.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Gleadopt.values: */

      /* no check */ ;
```

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# Gleaovtime

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gleaovtime | FR | DMmillis |

### 1.1 Gleaovtime

Global Office Parameter Gleaovtime

### 1.2 Description

Gleaovtime specifies the maximum time a toll switch will wait between the two Equal Access Signaling digit sequences while in an overload. If an overload condition exists, this value is used instead of Gleatime. The value specified is in milliseconds (ms). This value is used only on FC_LATA_CONN trunks.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 15000

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 15000;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Gleaovtime.values: */

Gleaovtime is_in {2000 thru 15000};
```

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# Gleatime

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gleatime | FR | DMulong |

### 1.1 Gleatime

Global Office Parameter Gleatime

### 1.2 Description

Gleatime specifies the maximum time a TOLL switch will wait between the two Equal Access Signaling digit sequences (the ANI sequence and address sequences). The value is specified in milliseconds (ms). The default value of 300000 ms (300 sec) allows the TOLL switch to handle Overlapped Outpulsing from an End Office. This value is used only on FC_LATA_CONN trunks.

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 300000

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 300000;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Gleatime.values: */

Gleatime is_in {2000 thru 300000};
```

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# Glec_act

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glec_act | FR | DMec_act |

### 1.1 Fullname:

Global Office Parameter Glec_act (Echo Cancellation Activate)

### 1.2 Description:

This RCable global parameter is used to tell the office how the echo cancellation equipment (if equipped at the office) will be handled.

0 - DBSIGNALLED - Only activate the echo cancellation equipment if the signaling information received indicates it has not previously been activated.

1 - DBALWAYS - Activate the echo cancellation equipment regardless of whether the previous switch has signalled an indication that echo cancellation has already been performed.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBSIGNALLED

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter will be displayed on RC/V 8.1

***Retrofit Rules:*** The value is preserved over a retrofit

***Default Rules:***

```
default=0; /* DBSIGNALLED */
```

***Distribution Rules:***

```
        /* Populate redundantly on all SMs */
```

***Checks:***

```
        /* No checks */
```

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# Glec_txt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glec_txt | FP | DMchar6 |

### 1.1 Glec_txt

Default LEC card display text.

### 1.2 Description

This parameter is used by the ACCS for CCC feature to store the six-character default LEC card text displayed on the operator position.

***Type:*** DB8STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ---

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** None.

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:***
```
default = "";
```

***Distribution Rules:*** Though this global parameter will be treated as group partitioned, since FG is not a valid distribution type for global parameters, FP will be used. FP global parameters exist on all SMs, thus the following distribution rules.

Please note that Glec_txt's group partitioning will be enforced in the checks section.
```
for pcr in sm_all

pcrlist[pcr] = true;
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
/* RULE about Glec_txt.values: */

let pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

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```
if (current_pcr is_in sm_all) then
begin
        /* For SMs in the GPD_OSPS-4 group, Glec_txt can take on
         * the full range of its domain.  We only must verify that
         * Glec_txt is the null string on SMs not in the group.
         */
        if ( pcrlist[current_pcr] == false ) then
        begin
                Glec_txt == "";
        end
end
```

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# Glecdaud

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glecdaud | LR | DMlong |

### 1.1 Glecdaud

Global Office Parameter Glecdaud

### 1.2 Description

This AM only global parameter is used by the On-Switch ECD Audit software code for 5E10(1) and later software releases. It serves as a status bitmap to record the completion of the On-Switch ECD Audit. The bit mask is defined in a DBCR local header to be used by the On-Switch ECD Audit and the Database Retrofit check function. The purpose of having a status bitmap is to ensure that the audit has been run with no errors prior to final data base dump for retrofitting offices.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** ODA should always initialize Glecdaud to the default value through a retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glecdaud.values: */

        /* no check */ ;
```

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# Glecho_bp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glecho_bp | FR | DMbool |

### 1.1 Glecho_bp

PHV Echo Cancellor Bypass

### 1.2 Description

The PHV echo cancellor bypass parameter is indicates whether PHV echo cancellor is turned on for the Switched-Based TDMA Vocoder feature. When this parameter is set equal to DBYES then the PHV echo cancellor is not turned on.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** This global parameter is supported by RC and ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glecho_bp.values: */
```

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# Glecp_pc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glecp_pc | LRFR | DMpt_code |

### 1.1 Glecp_pc

Executive Cellular Processor Point Code

### 1.2 Description

The parameter represents the Point Code of the *Autoplex*® executive cellular processor (ECP).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***

```
if (SFID130 == DBYES) then begin Glecp_pc != 0;

end else begin Glecp_pc == 0; end
```

The Executive Cellular Processor Point Code is a string of 9 decimal digits (the external format). Its internal hex value is determined based on the following format:

```
(Bits)  23             16                   8 7               0
        +----------------+----------+--------+----------------+
        |    Network     | Cluster Region and|     Cluster    |
        |   Indicator    |    Cluster Type   |      Member    |
        +----------------+----------+--------+----------------+
(Digit) 9               7 6                  4 3               1

        The 9 digit externally defined Point Code is converted as:

        ( network indicator *2 ^16 )      +
        ( cluster region and type *2 ^8 ) +
          cluster member
```

Example: 230005003 -> 0xe60503

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

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***Distribution Rules:*** standard

***Import:***

```
"chk_apperm.R"
```

***Checks:***

```
/* RULE about DCS permitted by office type */

if (c_aperm(PVODCS,CONFIGMAX) == false) then

begin

        Glecp_pc == 0;

end
```

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# Glecutod

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glecutod | FP | DMbool |

### 1.1 Glecutod

Enhanced cut through to operator (ECUT) Operator Default Option parameter.

### 1.2 Description

This parameter shall be used to activate/deactivate the ECUT Operator Default Option. If a caller's second attempt to enter a calling card number results in an ECUT card recognition failure, this global parameter determines if an operator request is automatically generated (DBYES), or the call is idled with a disconnect announcement (DBNO).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OSPS,3);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
/* RULE about Glecutod.values: */

        /* no check */ ;
```

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# Glecuton

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glecuton | FP | DMbool |

### 1.1 Glecuton

Enhanced cut through to operator (ECUT) feature activation parameter.

### 1.2 Description

This parameter shall be used to activate/deactivate the ECUT feature. DBYES indicates the feature is activated, DBNO indicates the feature is not activated. Glcas_on

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parameters, so FP is specified  */
/* here.  The group partitioning should be:                */
/*      RLdb_gpdus.grp_type = GPD_OSPS                     */
/*      RLdb_gpdus.grp_id   = 3                            */
pcrlist = get_gpd_pcrlist (GPD_OSPS,3);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
/* RULE about Glecuton.values: */

        /* no check */ ;

/* RULE about Glecuton: */
```

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```
/* There shall be a crosscheck to ensure that Glcas_on is DBYES */
/*  before this feature is activated                            */
if (current_pcr is_in sm_all) then
begin
if (Glecuton == DBYES) then
begin
        Glcas_on == DBYES;
end
end
```

# Glecuttm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glecuttm | FP | DMuns6 |

### 1.1 Fullname:

Interdigit timing parameter for Enhanced Cut Through to Operator (ECUT).

### 1.2 Description:

This parameter shall be used to specify interdigit timing after the 14th calling card digit is collected. The valid range will be 20 to 50 tenths of a second. (that is,. from 2 to 5 seconds) Gl_pcrid .

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 25

***AM Initial Value:*** 25

***CMP Initial Value:*** 25

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 25;
```

***Distribution Rules:***
```
        /* This global is really group partitioned, but FG cannot  */
        /* be specified for global parameters, so FP is specified  */
        /* here.  The group partitioning should be:                */
        /*      RLdb_gpdus.grp_type = GPD_OSPS                     */
        /*      RLdb_gpdus.grp_id   = 3                            */
        pcrlist = get_gpd_pcrlist (GPD_OSPS,3);
```

***Import:***
```
env.R,
PLgpd_defs.R
```

***Checks:***
```
/* RULE about Glecuttm.values: */

let pcrlist = get_gpd_pcrlist (GPD_OSPS,3);
```

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```
if (pcrlist[current_pcr] == true) then
begin

Glecuttm is_in {0, 20 thru 50};

/* RULE about Glecuttm: */
begin
let bool = (count { db_gpdus in RLdb_gpdus
where (db_gpdus.grp_type == GPD_OSPS &&
    db_gpdus.grp_id == 3 &&
    db_gpdus.module == Gl_pcrid)} == 1);
if (bool == false) then
begin
        Glecuttm == 0;
end
else
begin
        if (runucv) then
        Glecuttm is_in {20 thru 50};
end
end
end
```

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# Gleds_port

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gleds_port | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Electronic Directory Service Count

### 1.2 Description:

The Gleds_port global parameter contains a per SM's count of ports assigned an Electronic Directory Service (EDS) feature with the Directory Query Display (DQD) option allowed. It is used in calculating the number of Processor Control Blocks (PCBs), etc. needed for EDS (see Glospcb.R).

Its value is maintained over all initializations and updated via RC when an EDS feature with the DQD option allowed is assigned or removed. Each SM will have its' own value of this count.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** OSincpcb,

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** The value of this parameter is established by ODA and will be updated by RC when an EDS feature with the DQD option allowed is assigned or removed. Its value can increase and decrease.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        where ( modatt.module is_in { 1 thru 192 } )
                pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Gleds_port.values per SM: */
```

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```
if (current_pcr is_in sm_all) then
begin
Gleds_port is_in { 0 thru 65535 };
end


/* RULE about Gleds_port per SM: */

function get_edscnt() returning int
begin

        eds_count = 0;

        for fc_line in RLfc_line
        where ( fc_line.brc_dn  == DBYES || fc_line.dn_bfg ==
                DBYES )
        begin
                /*
                 * Find all the features on this line: line and
                 * BFG.  Create a list of line and BFG as well
                 * as a combined line/BFG list.
                 */

                /*
                 * Get all tuple (range values) for the line's
                 * RLdn_feats.
                 */
                LINEDNTUPS = ( (fc_line.brc_dn  == DBYES)?
                                ({ t in RLdn_feats
                                   where ( t.ltm_type ==
                                             fc_line.ltm_type &&
                                           t.ltm_idx ==
                                              fc_line.ltm_idx &&
                                           t.lead_module ==
                                              current_pcr ) }):
                                ({}));

                /*
                 * Get all tuple (range values) for the BFG's
                 * RLdn_feats.
                 */
                BFGDNTUPS = (( fc_line.dn_bfg == DBYES )?
                             ({ t in RLdn_feats
                               where ( t.ltm_type == LTM_ISDN &&
                               t.ltm_idx == fc_line.bfgid &&
                               t.lead_module == 0 ) }):
                        ({}));

                /*
                 * Get all the feature entries in the line's
                 * tuples (the "uniq" is for discarding extra
                 * null entries).
                 */
```

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```
                LINEDNFTENTS = uniq ( {
                                ftent in LINEDNTUPS.ftent1,
                                ftent in LINEDNTUPS.ftent2,
                                ftent in LINEDNTUPS.ftent3,
                                ftent in LINEDNTUPS.ftent4,
                                ftent in LINEDNTUPS.ftent5,
                                ftent in LINEDNTUPS.ftent6
                        } );

                /*
                 * Get all the feature entries in the BFG's
                 * tuples (the "uniq" is for discarding extra
                 * null entries).
                 */
                BFGDNFTENTS = uniq ( {
                                ftent in BFGDNTUPS.ftent1,
                                ftent in BFGDNTUPS.ftent2,
                                ftent in BFGDNTUPS.ftent3,
                                ftent in BFGDNTUPS.ftent4,
                                ftent in BFGDNTUPS.ftent5,
                                ftent in BFGDNTUPS.ftent6
                        } );

                /* Combine line and BFG BRCS features. */
                DNFTENTS = { ftent in LINEDNFTENTS, ftent in
                             BFGDNFTENTS };

                /* Check for EDS feature entry from the combined
                 * list. */
                if ( (count DNFTENTS) > 0 ) then
                        for ftent in DNFTENTS
                        where ( ftent.fid {10:15} ==
                                enum2int(MFEDS) )

                                /*
                                 * Increment counter if the EDS
                                 * feature has the DQD option
                                 * allowed.
                                 */
                                for eds_opts in RLeds_opts
                                where ( eds_opts.feat_id ==
                                        ftent.fid )
                                        if ( eds_opts.dqd ==
                                             DBYES ) then
                                                eds_count =
                                                  eds_count + 1;

        end     /* RLfc_line */


        return eds_count;

end
```

```
if (runslow) then
begin
        if ( current_pcr is_in sm_all ) then
        begin
                /*
                 * The Global Office Parameter EDS Count should
                 * match the total number of lines that has
                 * EDS with DQD=Y in/not in BFG.
                 */
                let eds_cnt = get_edscnt();
                Gleds_port == eds_cnt;
        end
end
```

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# Gledsaccnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gledsaccnt | FP | DMushort |

### 1.1 Fullname:

Count of ports having EDS Auto Call features on an SM

### 1.2 Description:

The Gledsaccnt global parameter contains an SM's count of ports having Electronic Directory Service (EDS) Auto Call features. Its value is maintained over all initializations and updated via RC as EDS features are assigned or deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** FCtriac,

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by RC and ODA. The value of this parameter is established by ODA and will be updated by RC when Electronic Directory Service Auto Call features are assigned or deleted. Its value can increase and decrease.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Gledsaccnt.values: */

if (current_pcr is_in sm_all) then
begin
```

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```
        Gledsaccnt is_in {0 thru 65535};
end


/* RULE about Gledsaccnt: */

function get_edsac() returning int
begin
        edsac_count = 0;

        for fc_line in RLfc_line
        where ( fc_line.brc_dn  == DBYES || fc_line.dn_bfg == DBYES )
        begin
                /*
                 * Find all the features on this line: line and BFG.
                 * Create a list of line and BFG as well as a combined
                 * line/BFG list.
                 */

                /*
                 * Get all tuples (range values) for the line's
                 * RLdn_feats.
                 */
                LINEDNTUPS = ((fc_line.brc_dn  == DBYES ) ?
                        ({ dn_feats in RLdn_feats
                                where ( dn_feats.ltm_type ==
                                                fc_line.ltm_type &&
                                        dn_feats.ltm_idx ==
                                                fc_line.ltm_idx &&
                                        dn_feats.lead_module ==
                                                current_pcr ) }):
                        ({}));

                /*
                 * Get all tuples (range values) for the BFG's
                 * RLdn_feats.
                 */
                BFGDNTUPS = ((fc_line.dn_bfg == DBYES ) ?
                        ({ dn_feats in RLdn_feats
                           where ( dn_feats.ltm_type == LTM_ISDN &&
                                   dn_feats.ltm_idx == fc_line.bfgid &&
                                   dn_feats.lead_module == 0 ) }) :
                        ({}));

                /*
                 * Get all the feature entries in the line's tuples
                 * (the "uniq" is for discarding extra null entries).
                 */
                LINEDNFTENTS = uniq ( {
                  ftent in LINEDNTUPS.ftent1,
                  ftent in LINEDNTUPS.ftent2,
                  ftent in LINEDNTUPS.ftent3,
                  ftent in LINEDNTUPS.ftent4,
                  ftent in LINEDNTUPS.ftent5,
```

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```
                  ftent in LINEDNTUPS.ftent6
                } );

                /*
                 * Get all the feature entries in the BFG's tuples
                 * (the "uniq" is for discarding extra null entries).
                 */
                BFGDNFTENTS = uniq ( {
                  ftent in BFGDNTUPS.ftent1,
                  ftent in BFGDNTUPS.ftent2,
                  ftent in BFGDNTUPS.ftent3,
                  ftent in BFGDNTUPS.ftent4,
                  ftent in BFGDNTUPS.ftent5,
                  ftent in BFGDNTUPS.ftent6
                } );

                /* Combine line and BFG BRCS features. */
                DNFTENTS = { ftent in LINEDNFTENTS, ftent in BFGDNFTENTS };

                /* Check for EDS feature entry from the combined list. */
                if ( (count { ftent in DNFTENTS }) > 0 ) then
                begin
                        for ftent in DNFTENTS
                        where ( ftent.fid {10:15} == enum2int(MFEDS) )
                        begin
                                /*
                                 * Increment counter if the EDS feature
                                 * allows auto call setup.
                                 */
                                for eds_opts in RLeds_opts
                                where ( eds_opts.feat_id == ftent.fid )
                                begin
                                     if ( eds_opts.aucsu == DBYES )
                                     then
                                     begin
                                          edsac_count = edsac_count + 1;
                                     end
                                end
                        end
                end
        end /* RLfc_line */
return edsac_count;
end

if (runslow) then
begin
        if ( current_pcr is_in sm_all ) then
        begin
                /*
                 * The Gledsaccnt global office parameter
                 * should match the total number of lines
                 * that has EDS with aucsu=Y.
                 */
                let edsac_cnt = get_edsac();
```

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```
                Gledsaccnt == edsac_cnt;
        end
end
```

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# Gleecmact

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gleecmact | LPFP | DMbool |

### 1.1 Gleecmact

Global Office Parameter Gleecmact

### 1.2 Description

DBYES for Netherlands.

DBNO for most other countries (or non local).

**True** feature 'Exchange Expensive Call Monitoring' active. Gleecmopt must be DBYES.

**False** feature 'Exchange Expensive Call Monitoring' not active.

Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Gleecmact.values: */

        /* no check */ ;
```

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# Gleecmint

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gleecmint | LPFP | DMshort |

### 1.1 Gleecmint

Global Office Parameter Gleecmint

### 1.2 Description

Threshold of number of meter signals on which 'Exchange Expensive Call Monitoring' will start monitoring for an international call. For local exchanges in the Netherlands set equal to 100. For most other countries set equal to zero (0). Used by Export.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gleecmint.values: */

Gleecmint is_in {0 thru 10000};
```

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# Gleecmnat

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gleecmnat | LPFP | DMshort |

### 1.1 Gleecmnat

Global Office Parameter Gleecmnat

### 1.2 Description

Threshold of number of meter signals above which 'Exchange Expensive Call Monitoring' will start monitoring for an international call. For local exchanges in the Netherlands set equal to 100.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gleecmnat.values: */

Gleecmnat is_in {0 thru 10000};
```

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# Gleecmopt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gleecmopt | LR | DMbool |

### 1.1 Gleecmopt

Global Office Parameter Gleecmopt

### 1.2 Description

DBYES - for local exchanges in the Netherlands

DBNO - for other countries

**True** feature 'Exchange Expensive Call Monitoring' present.

**False** feature 'Exchange Expensive Call Monitoring' not present. Gleecmact must be DBNO and not changeable.

Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Gleecmopt.values: */

        /* no check */ ;
```

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# Gleecmser

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gleecmser | LPFP | DMshort |

### 1.1 Gleecmser

Global Office Parameter Gleecmser

### 1.2 Description

Threshold of number of meter signals above which 'Exchange Expensive Call Monitoring' will start monitoring for a subscriber service programming action. For local exchanges in the Netherlands set to 2. For other countries set equal to 0. Used by Export.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Gleecmser.values: */

Gleecmser is_in {0 thru 10000};
```

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# Gleecsm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gleecsm | FP | DMbool |

### 1.1 Fullname:

External Echo Canceller on SM

### 1.2 Description:

Indicates if external echo canceller *Ethernet*® links are equipped on the SM.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** When the first EEC MELNK is populated in RLenetlink on an SM, then Gleecsm in that SM should be set to DBYES, RLmodatt.eecsm for that SM set to DBYES, and RLmodatt.billsm for that SM must be DBNO. When the last EEC MELNK tuple is deleted from RLenetlink in an SM, then Gleecsm in that SM should be set to DBNO and RLmodatt.eecsm for that SM set to DBNO.

***Retrofit Rules:*** /* none */

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* Fixed partioned (exists on all SMs, but value can differ between
         * SMs).
         */
        for modatt in RLmodatt
        begin
                if (modatt.module is_in sm_all)
                then begin
                        pcrlist[ modatt.module ] = true;
                end
        end
```

***Checks:***

```
if (current_pcr is_in sm_all)
then begin
```

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```
        find == 1 modatt in RLmodatt
        where (modatt.module == current_pcr)
        when_found begin
                modatt.eecsm == Gleecsm;

                if ( Gleecsm == DBYES )
                then begin
                        modatt.billsm == DBNO;
                        modatt.unittype is_in {SMSM2000,SMSM2005};
                end
        end
end
```

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# Glei_limit

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glei_limit | FP | DMuns10 |

### 1.1 Glei_limit

Global Office Parameter Glei_limit

### 1.2 Description

This parameter indicates the maximum number of seconds that the operator can interrupt the forward party during Emergency Interrupt before a message will be generated on the security printer. It is Group Partitioned, restricted to PSMs only; that is, SMs with grp_type = GPD_OSPS and grp_id = 1 (see RLdb_gpdus.P).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OSPS,1);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glei_limit.values: */

Glei_limit is_in {0 thru 1023};

end
```

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# Gleicr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gleicr | FP | DMbool |

### 1.1 Gleicr

Enhanced Incoming Routing

### 1.2 Description:

This parameter is used to inform the system if there is a PH3 in the Global SM. This parameter is used by DBGEN during SM FULL Initialization to determine whether or not to allocate memory in this GSM for incoming routing data.

It is also used during insertions, deletions, and updates of voice trunks and DPCs to determine whether or not the incoming routing data exists in the SS7 GSM.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** When a SM is grown to a GSM, the this global parameter must be set to DBYES.

***Retrofit Rules:*** None.

***Default Rules:***

```
oda_default = DBNO;
```

***Distribution Rules:***

```
        for gsm_opc in RLgsm_opc
        begin
                pcrlist[gsm_opc.gsm] = true;
        end
```

***Checks:***

```
BCeicr:  if (current_pcr is_in sm_all) then
begin
        /* Gleicr should be set to DBYES if this is a global SM. */
        if (Glglobalsm == 0) then
        begin
                Gleicr == DBNO;
```

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```
        end
        else
        begin
                Gleicr == DBYES;
        end
end
```

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# Gleisdl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gleisdl | FP | DMuns5 |

### 1.1 Gleisdl

Global Office Parameter Gleisdl

### 1.2 Description

Gleisdl keeps count of the number of External Information system (EIS) Call Processing Data Links (CPDLs) are equipped on the SM. As EIS CPDLs are added or removed from the SM, this global is incremented or decremented accordingly.

The Gleisdl global must always equal the number of bits set to a 1 in the global Gleiseq.

If the value of Gleisdl is 0, then the value of the global Gleiseq must also be 0 and there must be no tuples in RLeis_sm for the SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gleisdl.values: */
```

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```
Gleisdl is_in {0 thru 16};

end
```

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# Gleiseq

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gleiseq | FP | DMushort |

### 1.1 Gleiseq

Global Office Parameter Gleiseq

### 1.2 Description

Gleiseq is a bit map used to keeps track of the currently assigned External Information System (EIS) Call Processing Data Links (CPDLs) relative link numbers on the SM. This global is used by RC to assign the next available relative number on the SM when a new EIS link is requested by the customer. When ODA and RC assign relative link numbers to newly added EIS CPDLs, then the smallest available relative link number is to be used. The links on the SM do not have to be assigned consecutively. Each bit (0-15) represents a relative link number on the SM. If the bit is 0, then the relative link number is not currently not assigned to an EIS CPDL.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gleiseq.values: */

Gleiseq is_in {0 thru 0xFFFF};
```

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```
end
```

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# Gleisraf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gleisraf | FR | DMushort |

### 1.1 Gleisraf

Number of RAF members in EIS announcement logical service group.

### 1.2 Description

This global is used to keep a count of the number of members of the EIS Logical Service Group (LSG) which are from RAFs, as opposed to from SASs. It is updated every time a RAF member is added or removed from the EIS LSG.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDEdCIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global is read-only on RC/V view 5.1. It is updated internally from RC/V view 5.5 every time a member is added or removed from the LSG.

***Retrofit Rules:*** none3400

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
        for rt_fixedri in RLrt_fixedri
            where (rt_fixedri.ritype == RT_EISOSPS)
        begin
                find == 1 rt_routing in RLrt_routing
                    where (rt_fixedri.ri == rt_routing.route_x)
                when_found
                begin
                        find == 1 rt_trkg in RLrt_trkg
                            where (rt_trkg.grpnum == rt_routing.portgrp.grpnum)
                        when_found
sas_92_1:                   Gleisraf == rt_trkg.raf_mbrs;
                end
        end
```

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# Gleithres_ind

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gleithres_ind | FP | DMbool |

### 1.1 Gleithres_ind

Global Office Parameter Gleithres_ind

### 1.2 Description

This parameter indicates whether a message should be printed when the EI threshold is exceeded (DBYES) or not (DBNO). It is Group Partitioned, restricted to PSMs only; that is, SMs with grp_type = GPD_OSPS and grp_id = 1 (see RLdb_gpdus.P).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OSPS,1);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
/* RULE about Gleithres_ind.values: */

        /* no check */ ;
```

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# Glelon

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glelon | FP | DMbool |

### 1.1 Glelon

Global Office Parameter Glelon

### 1.2 Description

This is the feature activation parameter for the OSPS CAS Enhanced Limits feature, which provides the ability to explicitly restrict card calls to one call in progress at a time, or explicitly enable card calls to allow multiple calls in progress at a time. Y means the feature is active. N means the feature is not active. Glivion

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parameters, so FP is specified */
/* here.  The group partitioning should be:               */
/*      RLdb_gpdus.grp_type = GPD_OSPS                    */
/*      RLdb_gpdus.grp_id   = 3                           */
pcrlist = get_gpd_pcrlist (GPD_OSPS,3);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glelon.values: */
```

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```
        /* no check */ ;

/* RULE about Glelon: */

/* There must be a check to ensure that the Inward Validation ID */
/* parameter Glivion is DBYES before this feature is activated.  */
if (Glelon == DBYES) then
begin
        Glivion == DBYES;   /* 9.1 */
end

end
```

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# Glentry7

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glentry7 | LPFP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glentry7 - total number of rlENTRY7 tuples

### 1.2 Description:

The Glentry7 global parameter contains an AM or SM's count of rlENTRY7 tuples. Its value is maintained over all initializations and updated as rlENTRY7 tuples are inserted.

The following algorithm is used to calculate

```
Glentry7:
in an AM:
       Glentry7 must be between 0 and 1500
       Glentry7 must be 0 if Glpci7gr is 0
       Glentry7 must be 96 or greater**
             if Glientry7 + ((5 * Glpci7gr) / 4)
                    is >= 0 and < 96
       Glentry7 must be 1500 if Glientry7 +
                    ((5 * Glpci7gr) / 4 ) is > 1500
       otherwise
       Glentry7 is Glientry7 + ((5 * Glpci7gr) / 4 )
end AM
in SM-2000:
       Glentry7 must be between 0 and 2500
       Glentry7 must be 0 if Glpci7gr is 0
       Glentry7 must be 96 or greater**
                if Glientry7 + ((5 * Glpci7gr) / 2) is >= 0 and
                   < 96
       Glentry7 must be 2500 if Glientry7 +
                  ((5 * Glpci7gr) / 2 ) is > 2500
       otherwise
       Glentry7 is Glientry7 + ((5 * Glpci7gr) / 2 ) end
SM-2000
in an SM:
       Glentry7 must be between 0 and 250
       Glentry7 must be 0 if Glpci7gr is 0
       Glentry7 must be 64 or greater**
                if Glientry7 + ((5 * Glpci7gr) / 2) is >= 0 and < 64
       Glentry7 must be 250 if Glientry7 +
                ((5 * Glpci7gr) / 2 ) is > 250
       otherwise
       Glentry7 is Glientry7 + ((5 * Glpci7gr) / 2 )
end SM
```

***NOTE:*** This indicates a scenario where degrowth has occurred for some CCS7 trunks which caused the value to be higher than the calculated minimum. Since these are SRE parameters and there is no way to recover the Dynamic Data pages these values are never decreased. This also saves effort during degrowth of one

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CCS7 trunk group and growth of a new CCS7 Trunk group in its place These data pages are recover during the next retrofit or LTG - provided by dtr.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA ONLY
This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as rlENTRY7 tuples are inserted. This is the "Total" global parameter used by the SRE functionality. Its value can only increase.

***Retrofit Rules:*** The value of this parameter should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        ;
```

***Import:***
```
env.R
```

***Checks:***
```
Glentry7 on am is_in {0 thru 2500};

if (current_pcr is_in sm_all) then
begin
        Glentry7 is_in {0 thru 2500};
end
if (runucv) then
begin
/* RULE about Glentry7: */
if (Glpci7gr == 0 ) then
begin
        Glentry7 == 0;
end
else
begin
        if (current_pcr is_in sm_all) then
        begin
                for modatt in RLmodatt
                where (modatt.module == current_pcr )
                begin
```

```
                let x = Glientry7 + ((5 * Glpci7gr)/2);
                if (modatt.unittype is_in {SMSM2000,
                    SMSM2005}) then
                begin
                        Glentry7 is_in {0 thru 2500};
                        if (x > 2500) then
                        begin
                                Glentry7 == 2500;
                        end
                        else
                        begin
                                if ( x <= 96 ) then
                                begin
                                       /* degrowth case
                                        * applies here */
                                          Glentry7 >= 96;
                                end
                                else
                                begin
                                        Glentry7 >= x;
                                end
                        end
                end /* if SM-2000
                else /* this is an SM */
                begin
                        Glentry7 is_in {0 thru 250};
                        if (x > 250) then
                        begin
                                Glentry7 == 250;
                        end
                        else
                        begin
                                if ( x <= 64 ) then
                                begin
                                       /* degrowth case
                                        * applies here */
                                        Glentry7 >= 64;
                                end
                                else
                                begin
                                        Glentry7 >= x;
                                end
                        end
                end /* else an SM */
        end /* for */
end
else
begin
        for modatt in RLmodatt
        where(modatt.module == am)
        begin
                if (modatt.imtype == SM5AM) then
                begin
                        let x = Glientry7 + ((5 * Glpci7gr)/4);
```

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```
                                if (runucv) then
                                Glentry7 is_in {0 thru 1500};
                                if (x > 1500) then
                                begin
                                        if (runucv) then
                                        Glentry7 == 1500;
                                end
                                else
                                begin
                                        if ( x <= 96 ) then
                                        begin
                                               /* degrowth case
                                                * applies here */
                                                Glentry7 >= 96;
                                        end
                                        else
                                        begin
                                                Glentry7 >= x;
                                        end
                                end
                        end     /* if AM */
                end /* for */
        end /* else */
end /* else Glpci7gr not 0 */

end
```

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# Gleocratfl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gleocratfl | FP | DMcratfl |

### 1.1 Gleocratfl

Global Office Parameter Gleocratfl

### 1.2 Description

POPULATION: GROUP_PARTITIONED

This parameter is group partitioned with grp_type=GPD_OPRT and grp_id=3. That is, it exists on all SMs with operator traffic trunks, and all loaded SMs. An SM that carries operator traffic trunks is one in which one or more tuples in rlFC_PORTTYPE have the attribute servclass set to FC_ISPOPR. DESCRIPTION: This parameter indicates the option to be used when a CFR/RTRS ( Centralized Flexible Rating/Real-Time Rating System) rating failure has occurred during the end-of-call contact period of an Automated Coin Toll Service (ACTS) call. The value OA_ACTSOPR means that the call will be routed to an operator position. The value OA_ACTSFREE means that the call should not be charged for the previous period.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** OA_ACTSOPR

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = OA_ACTSOPR;
```

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OPRT,3);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
/* RULE about Gleocratfl.values: */

if (current_pcr is_in sm_all) then
```

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```
begin
        Gleocratfl is_in {OA_ACTSFREE, OA_ACTSOPR};
end

/* RULE about Gleocratfl: */

if (current_pcr is_in sm_all) then
begin
        if (Gleocratfl == OA_ACTSOPR) then
        begin
                find > 0 lpconf in RLlpconfig
                where (lpconf.smconfig == Glconfigname &&
                    lpconf.package is_in {GLOPSMDAAC, GLOPSMAUTO, GLOPSMOT});
        end

end
```

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# Gleonapn_das

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gleonapn_das | FR | DMda_tree |

### 1.1 Fullname:

Global Office Parameter Gleonapn_das

### 1.2 Description:

This DAS is used by the ADL5 feature, after an ASP OHD trigger has been encountered during post- query digit analysis when the Nature of Number field in the CalledPartyID parameter of the Analyze_Route message indicates 'APN'. SFID 515 must be unlocked prior to assigning a value to this parameter.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/*RULE about Gleonapn_das values:*/

Gleonapn_das is_in {0 thru 99};

/*Verify that DAS is valid*/

if (Gleonapn_das > 0) then
begin

     /* SFID 515 must be unlocked
      * before allowing this value
      * to be set.
```

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```
      */

find == 1 rc_das in RLrc_das
where (rc_das.digtree == Gleonapn_das);
end
```

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# Gleonloc_das

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gleonloc_das | FR | DMda_tree |

### 1.1 Fullname:

Global Office Parameter Gleonloc_das

### 1.2 Description:

This DAS global parameter will be used by the ADL5 feature after an ASP OHD trigger has been encountered during post-query digit analysis when the value of the Primary carrier is either 'LEC' or 'PSEUDO'. SFID 515 must be unlocked prior to assigning a value to this parameter.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/*RULE about Gleonloc_das values:*/

Gleonloc_das is_in {0 thru 99};

/*Verify that DAS is valid*/

if (Gleonloc_das > 0) then
begin

     /* SFID 515 must be unlocked
      * before allowing this value
      * to be set.
```

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```
      */

find == 1 rc_das in RLrc_das
where (rc_das.digtree == Gleonloc_das);
end
```

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# Gleontolldas

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gleontolldas | FR | DMda_tree |

### 1.1 Fullname:

Global Office Parameter Gleontolldas

### 1.2 Description:

This DAS will be used by the ADL5 feature after an ASP OHD trigger has been encountered, during post query digit analysis when neither APN DAS or LOC DAS have been specified. SFID 515 must be unlocked prior to assigning a value to this parameter.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/*RULE about Gleontolldas values:*/

Gleontolldas is_in {0 thru 99};

/*Verify that DAS is valid*/

if (Gleontolldas > 0) then
begin

     /* SFID 515 must be unlocked
      * before allowing this value
      * to be set.
```

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```
      */

find == 1 rc_das in RLrc_das
where (rc_das.digtree == Gleontolldas);
end
```

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# Glesa_time

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glesa_time | LR | DMshort |

### 1.1 Glesa_time

Global Office Parameter Glesa_time

### 1.2 Description

This global parameter is for the Dual ESA for E911 Enhancements Special feature and will be used to store the hour of the day that the active and inactive ESAs should be switched. If Glesa_time is 0, this indicates that no time based switching of active and inactive ESAs is to be done for this switch. A value of 1 to 24, is the hour of the day that the switch is to be done; 1 - 23 is the military time hour and 24 is midnight.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Since Dual ESA for E911 Enhancements feature is a secured feature, this parameter must be 0, if this feature has NOT been purchased (#SFID141).

***Retrofit Rules:*** Retrofit from 5E9 to 5E9(2):

The value of Glcp4dummy should be carried over to Glesa_time

Reset Glcp4dummy = 0

***Default Rules:***

```
default = 0;
```

***Distribution Rules:*** This parameter is set on an office basis (AM and CMP).

***Checks:***

```
/* RULE about Gle9cesid.values: */

Glesa_time is_in {0 thru 24};
```

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# Glescshard

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glescshard | FR | DMbool |

### 1.1 Glescshard

Escape Code Shared

### 1.2 Description

On a per SSP basic, escape codes apply to off-hook delayed triggers. In addition, the craft will be able to specify whether the escape codes apply to shared interoffice trunk triggers.

checks

```
If ( Glescshard equals DBYES ) then

begin

      Glpvn_ofc must_equal DBPVN_SSP;

end
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** To change this parameter to DBYES the office must purchase the ASP secured feature SFID 126.

if ( Glescshard equals DBYES ) then SFID 126 must be on && Glpvn_ofc must be DBPVN_SSP

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glescshard.values: */
```

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```
Glescshard is_in {DBNO, DBYES};
```

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# Glesp_on

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glesp_on | FR | DMbool |

### 1.1 Fullname:

Global Office Parameter Glesp_on

### 1.2 Description:

This global parameter indicates whether the OSPS ESP feature is activated.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** ---

***TRIGGER:*** OAtrg_esp_feat,

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Must be DBNO when secure feature SFID458 is off.

***Retrofit Rules:*** Preserve the value across a retrofit.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glesp_on: */

        /* no check */ ;
```

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# Glespcc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glespcc | FP | DMbool |

### 1.1 Glespcc

Enhanced Service Provider Credit Checking feature activation bit

### 1.2 Description

This parameter shall be used to enable/disable the ESP credit checking feature on the switch.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glespcc.values: */

        /* no check */ ;

/* RULE about Glespcc: */

/* There shall be a crosscheck to ensure that Glvmson and Glcas3 */
/* are set to DBYES before this feature is activated.           */
if (Glespcc == DBYES) then
```

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```
begin
        Glvmson == DBYES;
        Glcas3 == DBYES;
end

end
```

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# Glespnorm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glespnorm | LR | DMbool |

### 1.1 Glespnorm

Global Office Parameter Glespnorm

### 1.2 Description

This parameter is used to define how the off-normal condition for Essential Service Protection (ESP) will be displayed on the MCC. A value of DBNO indicates that the off-normal condition for ESP is allowed and the normal condition is inhibited. A value of DBYES indicates that the off-normal condition for ESP is inhibited and the normal condition is allowed. In 5E8(1), the Glcp13dummy parameter is used to define the off-normal condition for ESP.
**AM Initial Value:** DBNO

**CMP Initial Value:** DBNO

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** This parameter is populated by RC/V.

***Retrofit Rules:*** In a retrofit to 5E9, ODA should carry the value in the Glcp13dummy global parameter into this global parameter.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glespnorm.values: */

        /* no check */ ;
```

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# Glevtr0pi

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glevtr0pi | FP | DMrellnkno |

### 1.1 Fullname:

Global Office Parameter even DLI's TRCU PATH for side 0.

**Defines:** db/DMrellnkno.h

### 1.2 Description:

Provides in a classic ORM, what the TRCU path is for the even part of DLI on side 0.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 36

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** None

***Retrofit Rules:*** In EVL. These needs to be populated in 5e12.1

***Default Rules:***
```
default = $SMINVLNKNO;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        begin
                pcrlist[modatt.module] = true;
        end
```

***Import:***
```
cktdefs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
        Glevtr0pi is_in {0,$SMINVLNKNO};

        if( (Glimtype == SM5ORM) &&
           ! (SM2000(current_pcr)) ) then
```

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```
        begin
                /* This is a classic ORM. */
                find == 1 tpath in RLtrcupath
                where (tpath.sm == current_pcr &&
                       tpath.trcu_pi == Glevtr0pi);
                Glevtr0pi == 0;
        end
        else
        begin
                Glevtr0pi == $SMINVLNKNO;
        end
end
```

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# Glevtr1pi

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glevtr1pi | FP | DMrellnkno |

### 1.1 Fullname:

Global Office Parameter even DLI's TRCU PATH for side 1.

**Defines:** db/DMrellnkno.h

### 1.2 Description:

Provides in a classic ORM, what the TRCU path is for the even part of DLI on side 1.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 36

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** None;

***Retrofit Rules:*** In EVL. (These needs to be populated in 5e12.1)

***Default Rules:***
```
default = $SMINVLNKNO;
```

***Distribution Rules:***
```
for modatt in RLmodatt
begin
        pcrlist[modatt.module] = true;
end
```

***Import:***
```
cktdefs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

        Glevtr1pi is_in {0, 1, $SMINVLNKNO};

        if( (Glimtype == SM5ORM) &&
```

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```
           ! (SM2000(current_pcr)) ) then
        begin
                /* This is a classic ORM. */
                find == 1 tpath in RLtrcupath
                where (tpath.sm == current_pcr &&
                       tpath.trcu_pi == Glevtr1pi)
                when_found
                begin
                        if(tpath.type == SMTRCU3) then
                        begin
                                Glevtr1pi == 0;
                        end
                        else
                        begin
                                Glevtr1pi == 1;
                        end
                end
        end
        else
        begin
                        Glevtr1pi == $SMINVLNKNO;
        end
end
```

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# Glexdet

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glexdet | FP | DMbool |

### 1.1 Fullname:

Global Office Parameter Glexdet

### 1.2 Description:

Specifies whether this OSPS or ISP office performs exception area determination for privileged and compete inter-LATA calls. Privileged and compete areas (exception areas) exist where the originating and terminating office codes (NPA-NXX) reside in different LATA's but both these offices are owned by the same service provider and are allowed to connect calls between these offices with there own local exchange carrier (LEC). Under normal situations only interconnect carriers (IC) are allowed to make these inter-LATA connections. Thus the term 'exception area'. These are areas which Local Exchange Carriers (LEC) are allowed to carry inter-LATA calls. This parameter should be set to DBNO when the office does not have exception areas within its serving area. A value of DBYES will be used when the office does have exception areas within its serving area. The parameter must be present in all PSM's and SM's which have ISPOPR trunks. Group type = GPD_OPRT Group id = 2

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        pcrlist = get_gpd_pcrlist (GPD_OPRT, 2);
```

***Import:***
```
env.R,
PLgpd_defs.R
```

***Checks:***
```
/* RULE about Glexdet.values: */
```

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```
/* RULE about Glexdet: */

if (current_pcr is_in sm_all) then
begin
        if (Glospsta == DBNO) then
        begin
                if (runucv) then
                Glexdet == DBNO;
        end
        else
        begin
                if (get_gpd_pcrlist(GPD_OPRT, 2)[current_pcr])
                then
                        Glexdet is_in {DBYES,DBNO};
                else
                        if (runucv) then
                        Glexdet == DBNO;
        end

        if (Glexdet == DBNO) then
        begin
                /* Cannot set Glexdet to DBNO if any trunk groups
                 * have exception areas in use.
                 */
                find == 0 fc_oprtk in RLfc_oprtk
                where (fc_oprtk.exc_area == DBYES);
        end
end
```

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# Glexinbnd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glexinbnd | FR | DMbool |

### 1.1 Glexinbnd

Global Office Parameter Glexinbnd

### 1.2 Description

Glexinbnd indicates whether or not Expanded Inband Signaling (EIS) is used in the office and provides a means of flash cutting TSPS trunks to EIS. It is also used to provide control of red box fraud protection for dial-tone-first coin lines. When Glexinbnd is set to DBNO, red box fraud control is not provided and trunk group data are used to determine signaling for TSPS trunks.

When Glexinbnd is set to DBYES, this provides for control of red box fraud on dial-tone-first coin lines by providing forward line battery polarity on 0-plus calls and 0-minus calls routed over TSPS trunks. In addition ALL TSPS trunks in the office are defaulted to use EIS irrespective of trunk group data of FCWINKONLY.(RLrctgrprk.intsig) It is possible to overrid this default for a given trunk member by setting a bit in relation RLfc_trunk to DBYES. The signal (RLrctgrprk.intsig) will remain as specified in the trunk group data.

If EIS is used in a given office for operator services traffic, then EIS should be used for ALL operator services traffic. Mixing expanded inband signaling and other signaling (RLrctgrprk.intsig) protocols such as INBAND and FCWINKONLY for operator services traffic could result in MF tones being played in a customers' ear.

The RLfc_trunk.ffcf2 bit override is provided for customers using EIS for operator services traffic and using TSPS trunks for non-operator services traffic which does not use expanded inband signaling.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glexinbnd.values: */
```

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```
/* no check */ ;
```

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# Glexmdt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glexmdt | FR | DMshort |

### 1.1 Glexmdt

Global Office Parameter Glexmdt

### 1.2 Description

This timer is set by the Originating Access tandem (OAT) after it sends the Initial Address Message (IAM) to the Originating Toll Office (OTO). The OAT uses Glexmdtimer to provide a delay to ensure that glare, blocking etc, is not encountered on the outgoing circuit to an OTO. When the timer expires, the OAT sends an Exit Message (EXM) to the End Office (EO). The range for this timer is 100 - 1200 milliseconds with 100 ms. intervals.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 300

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 300;
```

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glexmdt.values: */

Glexmdt is_in {100 thru 1200};
```

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# Glexport

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glexport | LRFP | DMbool |

### 1.1 Glexport

Global Office Parameter Glexport

### 1.2 Description

Used in in-line checks to distinguish between Export and non-Export code. While Export should be the only organization which codes with this parameter, all switches must initialize it appropriately.

DBNO means this is not an Export switch, DBYES means this is an Export switch.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glexport.values: */

        /* no check */ ;
```

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## 3.17 Glf

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# Glfail_id

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfail_id | FR | DMbcarid |

### 1.1 Glfail_id

Global Office Parameter Glfail_id defines: "db/DMcarr_val.h"

### 1.2 Description

This parameter contains the carrier id to be used to route to an operator system on an ISP call when the carrier cannot be determined because of a failure in digit reception from the local office. This is only used on incoming MFJ trunk groups.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:***

```
From 5E6, 5E7 ---> to 5E8 :

-------------------------

A carrier value of 1000 should

be mapped to LECBCARID
```

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glfail_id.values: */

Glfail_id is_in {0 thru $FGDMAXBCAR, $LECBCARID

    };
```

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# Glfatacf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfatacf | LR | DMuns5 |

### 1.1 Glfatacf

ACF Fraud Attempt Threshold

### 1.2 Description

This parameter is known as the ACF fraud attempt threshold. Glfatacf specifies the number of ACF attempts allowed for a given interval. If the threshold has been exceeded for a given interval, attempted ACF fraud is assumed and the calling number and PIN are put on the ACF Fraud List.

This parameter may only be reviewed and updated at the OSPS OAP security terminal.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 15

***AM Initial Value:*** 15

***CMP Initial Value:*** 15

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** Because this parameter is accessible only form the OSPS OAP security terminal, ODA does not have a corresponding form for data entry. Thus, ODA will support this parameter by carrying forward the current value in the next generic.

***Default Rules:***
```
default = 15;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glfatacf.values: */

Glfatacf is_in {4 thru 30};
```

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# Glfc_t1

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfc_t1 | FR | DMlong |

### 1.1 Glfc_t1

Global Office Parameter Glfc_t1, Flexible Calling T1 Timer

### 1.2 Description

When a HOLD message is sent to a Standard CPE, this timer is set, and the switch will wait for a HOLD ACKNOWLEDGE message to be returned from the CPE. If a HOLD ACKNOWLEDGE is received while the timer is running, the timer is cancelled, the B-channel is released, and the call is put on hold. If a HOLD REJECT message is received, nothing is done. If the timer expires and then the HOLD ACKNOWLEDGE is received, the call is dropped. The range of this timer is one to ten seconds with one second increments and a default value of four seconds. For software efficiency the internal value is stored in milliseconds rather than in seconds. This parameter is used for only for Standard BRIs

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4000

***AM Initial Value:*** 4000

***CMP Initial Value:*** 4000

***RC/ODA Rules:*** Valid values are 1000 through 10000 msec in increments of 1000 (1 through 10 seconds). Default is 4000 (4 sec). This parameter is meaningful only for Standard BRIs.

***Retrofit Rules:*** Preserved across a generic retrofit. Set to default value when retrofit to 5E8(1).

***Default Rules:***
```
default = 4000;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glfc_t1.values: */

Glfc_t1 is_in {1000 thru 10000 by 1000};
```

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# Glfcafmt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfcafmt | LRFR | DMfcafmt |

### 1.1 Glfcafmt

Flexible Call Accounting Format

### 1.2 Description

This global parameter identifies a set of customer-specific data tables.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** AMNOFMT

***AM Initial Value:*** AMNOFMT

***CMP Initial Value:*** AMNOFMT

***RC/ODA Rules:*** No RC Access

***Retrofit Rules:*** None

***Default Rules:***
```
default = AMNOFMT;
```

***Distribution Rules:***
```
/* AM-SM Redundant */
```

***Checks:***
```
/* RULE about Glfcafmt */

Glfcafmt is_in {AMNOFMT, AMNAR};
```

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# Glfcaon

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfcaon | FP | DMbool |

### 1.1 Glfcaon

Global Office Parameter Glfcaon

### 1.2 Description

This global is for the fully coded addressing (FCA) feature. The global is used to turn the feature on or off. If it is set to DBYES then the feature is activated. If it is set DBNO then the feature is not activated. It is group partitioned, restricted to PSMs and SMs that carry OSPS operator traffic; that is, SMs with grp_type = GPD_OPRT and grp_id = 2 (see RLdb_gpdus.P).

```
Range: DBYES and DBNO

Supported By: RC, ODA, & ODBE

Recent Change Default: DBNO

ODA Default: DBNO
```

Gloftyp must be DBYES and Glofcar must be 288 before Glfcaon can be set to DBYES. Glospsta must be set to DBYES in order to read Glsabdumy.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
pcrlist = get_gpd_pcrlist (GPD_OPRT,2);
```

***Import:***

```
"PLgpd_defs.R"
```

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***Checks:***

```
/* RULE about Glfcaon.values: */

        /* no check */ ;
```

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# Glfcdlines

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfcdlines | FP | DMushort |

### 1.1 Glfcdlines

Lines with Advanced Services Platform feature code dialing

### 1.2 Description

The Glfcdlines global parameter contains an SM's count of ASP feature code dialing features assigned to lines and active in RLasp_port. Its value is maintained over all initializations and updated via trigger functions as feature code dialing features are inserted or deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as feature code dialing features are inserted or deleted. Its value can increase and decrease.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glfcdlines.values: */

Glfcdlines is_in {0 thru 28800};

end
```

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```
/* RULE about Glfcdlines: */
function func() returning int
begin
     fcdlines = 0;

     for asp_port in RLasp_port
     where (asp_port.fcd_act == DBYES)
     begin
          find == 1 lpt_pt in RLlpt_pt
          where (lpt_pt.lport == asp_port.lport &&
             lpt_pt.lpt_type == asp_port.lpt_type)
          when_found
          begin
                if (count({ fc_porttyp in RLfc_porttyp
                      where (fc_porttyp.port.member == lpt_pt.port &&
                             fc_porttyp.port.module == current_pcr &&
                             fc_porttyp.porttype == TM_LINE) }) > 0) then
                fcdlines = fcdlines + 1;
          end
     end

     return fcdlines;
end

if (current_pcr is_in sm_all) then
begin
        Glfcdlines == func();
end
```

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# Glfcdtrks

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfcdtrks | FP | DMushort |

### 1.1 Glfcdtrks

Trunks with Advanced Services Platform feature code dialing

### 1.2 Description

The Glfcdtrks global parameter contains an SM's count of feature code dialing features assigned to trunks and active in RLasp_port. Its value is maintained over all initializations and updated via trigger functions as feature code dialing features are inserted or deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as custom dialing plan features are inserted or deleted. Its value can increase and decrease.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glfcdtrks.values: */

Glfcdtrks is_in {0 thru 24192};

end
```

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```
 /* RULE about Glfcdtrks: */

function func() returning int
begin
     fcdtrks = 0;

     for asp_port in RLasp_port
     where (asp_port.fcd_act == DBYES)
     begin
          find == 1 lpt_pt in RLlpt_pt
          where (lpt_pt.lport == asp_port.lport &&
              lpt_pt.lpt_type == asp_port.lpt_type)
          when_found
          begin
              if (count({ fc_porttyp in RLfc_porttyp
                      where (fc_porttyp.port.member == lpt_pt.port &&
                             fc_porttyp.port.module == current_pcr &&
                             fc_porttyp.porttype == TM_TRK) }) > 0) then
               fcdtrks = fcdtrks + 1;
           end
     end

        return fcdtrks;
end

if (current_pcr is_in sm_all) then
begin
        Glfcdtrks == func();

end
```

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# Glfciacf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfciacf | LR | DMuns5 |

### 1.1 Glfciacf

ACF Fraud Candidate Interval

### 1.2 Description

This parameter is known as the ACF Fraud Candidate Interval. Glfciacf specifies the time interval (in minutes) to allow repeated ACF attempts. If the number of attempts, within this time interval, has exceeded the threshold (Glfatacf) the call will be blocked prior to making a card validation query.

This parameter may only be reviewed and updated at the OSPS OAP security terminal.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 10

***CMP Initial Value:*** 10

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** Because this parameter is accessible only form the OSPS OAP security terminal, ODA does not have a corresponding form for data entry. Thus, ODA will support this parameter by carrying forward the current value in the next generic.

***Default Rules:***

```
default = 10;
```

***Distribution Rules:*** none

***Checks:***

```
/* RULE about Glfciacf.values: */

Glfciacf is_in {4 thru 20};
```

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# Glfclass

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfclass | FP | DMfclass |

### 1.1 Glfclass

Global Office Parameter Glfclass

### 1.2 Description

Glfclass has 4 possible values: HARM, DECI, SYNCH, FCNOMFR. If there are any MFR lines, Glfclass must not be FCNOMFR.

The values and the definitions are:

```
HARM    - represents that multifrequency ringing is

          from the harmonic frequency series,

DECI    - decimonic series,

SYNCH   - synchromonic series,

FCNOMFR - no multifrequency ringing.


          Special restrictions:


          If the SM is equipped with one or more LU1

          (RLrc_eqloc.unittype = SMLU) then Glfclass MUST

          be set to FCNOMFR.
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** FCNOMFR

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

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***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glfclass.values: */

        /* no check */ ;
```

# Glfcrthrsh

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfcrthrsh | FR | DMcfseq |

### 1.1 Fullname:

Forward Call Redirection Threshold

### 1.2 Description:

Global office parameter Glfcrthrsh limits how many originating and terminating redirection parameters a given call may receive.

If Glfcrthrsh is greater than 0, then ASP01.B must be purchased and Glpvn_ofc must_be DBPVN_SSP.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 5

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 5;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glfcrthrsh.values: */

        if ( Glfcrthrsh != 0 ) then
        begin
                Glpvn_ofc == DBPVN_SSP;
        end
if (current_pcr is_in {1 thru 192}) then
begin
```

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```
        if (runucv) then
        Glfcrthrsh is_in {0,1 thru 9};
end
```

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# Glfexrafs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfexrafs | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Count Of RAF ports using FEX environment

### 1.2 Description:

The Glfexrafs global parameter contains a per SM count of the RAF and SAS announcement ports which use a FEX environment. Its value is maintained over all initializations and updated by trigger functions as these ports are inserted or deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as FEX using RAF/SAS ports are inserted or deleted. Its value can increase and decrease.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        where ( modatt.module is_in { 1 thru 192 } )
                pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glfexrafs.values: */
```

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```
/* The AVRAFMAX and AVSASMAX symbols should be used here.
 * Currently the maximum sum of these symbols is 256. The real
 * value will be dependent on SM type and equipment.
 */

Glfexrafs is_in {0 thru 256};

/* runslow added due to linear search of FC_PORTTYP and excessive
 * cpu usage */
if (runslow) then
begin

/* RULE about Glfexrafs: */

        Glfexrafs == count { fc_porttyp in RLfc_porttyp
                where (fc_porttyp.annc_apl is_in {
                        SVC_DA,
                        SVC_RAS,
                        SVC_ACSR,
                        SVC_PVN} ) };
end
end
```

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# Glffall0

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall0 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffall0

### 1.2 Description:

This parameter, in conjunction with Glffall1 to Glffall7 in the CMP, is used by Optioned Feature System (OFS) for 5E9 and later Software Releases. Along with Glffany0 to Glffany7, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos7 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 500, bit 1 represents feature option 501, etc. Thus, this parameter provides 32 feature options, options 500 through 531. The bit will be set to on (1) if the corresponding bit of Glffos0 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos0 in the SMs is off (0).

This parameter is populated by Recent Change. Glffos0.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, whenever a tuple exists in the relation RLsf12 keyed by ks=0 and ksubrid=0, this parameter must preserve the value of RLsf12.al2. If the tuple does not exist, this parameter should be built per description above. In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard - LP */
        ;
```

***Import:***

```
env.R
```

***Checks:***

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```
/* RULE about Glffall0.values: */

Glffall0 on cmp is_in {0 thru 0xFFFFFFFF};

/* RULE about Glffall0: */

function func() returning boolean
begin
        temp = 0xFFFFFFFF;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp & Glffos0 on modatt.module);
        end
        assert(temp == Glffall0 on cmp);
        return true;
end
func();
```

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# Glffall1

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall1 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffall1

### 1.2 Description:

This parameter, in conjunction with Glffall0, Glffall2 to Glffall7 in the CMP, is used by Optioned Feature System (OFS) for 5E9 and later Software Releases. Along with Glffany0 to Glffany7, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos7 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 532, bit 1 represents feature option 533, etc. Thus, this parameter provides 32 feature options, options 532 through 563. The bit will be set to on (1) if the corresponding bit of Glffos1 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos1 in the SMs is off (0).

This parameter is populated by Recent Change. Glffos1.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, whenever a tuple exists in the relation RLsf12 keyed by ks=1 and ksubrid=0, this parameter must preserve the value of RLsf12.al2. If the tuple does not exist, this parameter should be built per description above. In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard - LP */
        ;
```

***Import:***

```
env.R
```

***Checks:***

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```
/* RULE about Glffall1.values: */

Glffall1 on am is_in {0 thru 0xFFFFFFFF};

/* RULE about Glffall1: */

function func() returning boolean
begin
        temp = 0xFFFFFFFF;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in { 1 thru 192 })
        begin
                temp = (temp & Glffos1 on modatt.module);
        end
        if (runucv) then
        assert(temp == Glffall1 on am);
        return true;
end
func();
```

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# Glffall2

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall2 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffall2

### 1.2 Description:

This parameter, in conjunction with Glffall0, Glffall1, Glffall3 to Glffall7 in the CMP, is used by Optioned Feature System (OFS) for 5E9 and later Software Releases. Along with Glffany0 to Glffany7, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos7 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 564, bit 1 represents feature option 565, etc. Thus, this parameter provides 32 feature options, options 564 through 595. The bit will be set to on (1) if the corresponding bit of Glffos2 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos2 in the SMs is off (0).

This parameter is populated by Recent Change. Glffos2

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, whenever a tuple exists in the relation RLsf12 keyed by ks=2 and ksubrid=0, this parameter must preserve the value of RLsf12.al2. If the tuple does not exist, this parameter should be built per description above. In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
```

***Import:***
```
env.R
```

***Checks:***

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```
/* RULE about Glffall2.values: */

Glffall2 on cmp is_in {0 thru 0xFFFFFFFF};

/* RULE about Glffall2: */

function func() returning boolean
begin
        temp = 0xFFFFFFFF;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp & Glffos2 on modatt.module);
        end
        if (runucv) then
        assert(temp == Glffall2 on cmp);
        return true;
end
func();
```

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# Glffall3

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall3 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffall3

### 1.2 Description:

This parameter, in conjunction with Glffall0 to Glffall2, Glffall4 to Glffall7 in the CMP, is used by Optioned Feature System (OFS) for 5E9 and later Software Releases. Along with Glffany0 to Glffany7, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos7 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 596, bit 1 represents feature option 597, etc. Thus, this parameter provides 32 feature options, options 596 through 627. The bit will be set to on (1) if the corresponding bit of Glffos3 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos3 in the SMs is off (0).

This parameter is populated by Recent Change. Glffos3

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, whenever a tuple exists in the relation RLsf12 keyed by ks=3 and ksubrid=0, this parameter must preserve the value of RLsf12.al2. If the tuple does not exist, this parameter should be built per description above. In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
```

***Import:***
```
env.R
```

***Checks:***

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```
/*RULE about Glffall3.values: */

Glffall3 on am is_in {0 thru 0xFFFFFFFF};

/* RULE about Gkffall3: */

function func() returning boolean
begin
        temp = 0xFFFFFFFF;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp & Glffos3 on modatt.module);
        end
        if (runucv) then
        assert(temp == Glffall3 on am);
        return true;
end
func();
```

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# Glffall4

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall4 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffall4

### 1.2 Description:

This parameter, in conjunction with Glffall0 to Glffall3, Glffall5 to Glffall7 in the CMP, is used by Optioned Feature System (OFS) for 5E9 and later Software Releases. Along with Glffany0 to Glffany7, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos7 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 628, bit 1 represents feature option 629, etc. Thus, this parameter provides 32 feature options, options 628 through 659. The bit will be set to on (1) if the corresponding bit of Glffos4 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos4 in the SMs is off (0).

This parameter is populated by Recent Change. Glffos4.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, this parameter should be set to the default value of 0. In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glffall4.values: */
```

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```
Glffall4 on cmp is_in {0 thru 0xFFFFFFFF};

/* RULE about Glffall4: */

function func() returning boolean
begin
        temp = 0xFFFFFFFF;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
               modatt.module is_in sm_all)
        begin
               temp = (temp & Glffos4 on modatt.module);
        end
        if (runucv) then
        assert(temp == Glffall4 on cmp);
        return true;
end
func();
```

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# Glffall5

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall5 | LP | DMhex32 |

### 1.1 Glffall5

Global Office Parameter Glffall5

### 1.2 Description

This parameter, in conjunction with Glffall0 to Glffall4, Glffall6, Glffall7 in the CMP, is used by Feature Optioning System (FOS) for 5E9 and later software releases. Along with Glffany0 to Glffany7, these parameters represent the 'office' setting of the feature options (also known as, TFOS bits) and are populated from Glffos0 to Glffos7 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 660, bit 1 represents feature option 661, etc. Thus, this parameter provides 32 feature options, options 660 through 691. The bit will be set to on (1) if the corresponding bit of Glffos5 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos5 in the SMs is off (0).

This parameter is populated by Recent Change.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, this parameter should be set to the default value of 0.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard - LP */

;
```

***Checks:***

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```
/* RULE about Glffall5.values: */

Glffall5 on cmp is_in {0 thru 0xFFFFFFFF};

/* RULE about Glffall5: */
function func() returning boolean
begin
        temp = 0xFFFFFFFF;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp & Glffos5 on modatt.module);
        end
        assert(temp == Glffall5 on cmp);
        return true;
end

func();
```

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# Glffall6

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall6 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffall6

### 1.2 Description:

This parameter, in conjunction with Glffall0 to Glffall5, Glffall7 in the CMP, is used by Optioned Feature System (OFS) for 5E9 and later Software Releases. Along with Glffany0 to Glffany7, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos7 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 692, bit 1 represents feature option 693, etc. Thus, this parameter provides 32 feature options, options 692 through 723. The bit will be set to on (1) if the corresponding bit of Glffos6 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos6 in the SMs is off (0).

This parameter is populated by Recent Change. Glffos6.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, this parameter should be set to the default value of 0. In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glffall6.values: */
```

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```
Glffall6 on cmp is_in {0 thru 0xFFFFFFFF};

/* RULE about Glffall6: */

if (runucv) then
(0xFFFFFFF & Glffos6) == Glffall6 on cmp;
```

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# Glffall7

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall7 | LP | DMhex32 |

### 1.1 Glffall7

Global Office Parameter Glffall7

### 1.2 Description

This parameter, in conjunction with Glffall0 to Glffall6 in the CMP, is used by Optioned Feature System (OFS) for 5E9 and later software releases. Along with Glffany0 to Glffany7, these parameters represent the 'office' setting of the feature options (also known as, TFOS bits) and are populated from Glffos0 to Glffos7 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 724, bit 1 represents feature option 725, etc. Thus, this parameter provides 32 feature options, options 724 through 755. The bit will be set to on (1) if the corresponding bit of Glffos7 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos7 in the SMs is off (0).

This parameter is populated by Recent Change.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, this parameter should be set to the default value of 0.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard - LP */

;
```

***Checks:***
```
/* RULE about Glffall7.values: */
```

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```
Glffall7 on cmp is_in {0 thru 0xFFFFFFFF};

/* RULE about Glffall7: */

(0xFFFFFFFF & Glffos7) == Glffall7 on cmp;
```

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# Glffall8

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall8 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffall8

### 1.2 Description:

This global parameter, in conjunction with Glffall0 through Glffall20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffany0 through Glffany20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 756, bit 1 represents feature option 757, etc. Thus, this parameter provides 32 feature options, options 756 through 787.

The bit will be set to on (1) if the corresponding bit of Glffos8 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos8 in the SMs is off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize this parameter to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard - LP */
        ;
```

***Checks:***

```
/* RULE about Glffall8.values: */

Glffall8 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffall8: */

function func() returning DMULONG
begin
        temp = 0xFFFFFFFF;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp & Glffos8 on modatt.module);
        end
        return temp;
end
func() == Glffall8 on cmp;
```

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# Glffall9

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall9 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffall9

### 1.2 Description:

This global parameter, in conjunction with Glffall0 through Glffall20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffany0 through Glffany20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 788, bit 1 represents feature option 789, etc. Thus, this parameter provides 32 feature options, options 788 through 819.

The bit will be set to on (1) if the corresponding bit of Glffos9 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos9 in the SMs is off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize this parameter to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard - LP */
        ;
```

***Checks:***

```
/* RULE about Glffall9.values: */

Glffall9 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffall9: */

function func() returning DMULONG
begin
        temp = 0xFFFFFFFF;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp & Glffos9 on modatt.module);
        end
        return temp;
end
func() == Glffall9 on cmp;
```

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# Glffall10

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall10 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffall10

### 1.2 Description:

This global parameter, in conjunction with Glffall0 through Glffall20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffany0 through Glffany20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 820, bit 1 represents feature option 821, etc. Thus, this parameter provides 32 feature options, options 820 through 851.

The bit will be set to on (1) if the corresponding bit of Glffos10 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos10 in the SMs is off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize this parameter to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard - LP */
        ;
```

***Checks:***

```
/* RULE about Glffall10.values: */

Glffall10 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffall10: */

function func() returning DMULONG
begin
        temp = 0xFFFFFFFF;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp & Glffos10 on modatt.module);
        end
        return temp;
end
func() == Glffall10 on cmp;
```

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# Glffall11

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall11 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffall11

### 1.2 Description:

This global parameter, in conjunction with Glffall0 through Glffall20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffany0 through Glffany20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 852, bit 1 represents feature option 853, etc. Thus, this parameter provides 32 feature options, options 852 through 883.

The bit will be set to on (1) if the corresponding bit of Glffos11 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos11 in the SMs is off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize this parameter to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard - LP */
        ;
```

***Checks:***

```
/* RULE about Glffall11.values: */

Glffall11 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffall11: */

function func() returning DMULONG
begin
        temp = 0xFFFFFFFF;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp & Glffos11 on modatt.module);
        end
        return temp;
end
func() == Glffall11 on cmp;
```

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# Glffall12

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall12 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffall12

### 1.2 Description:

This global parameter, in conjunction with Glffall0 through Glffall20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffany0 through Glffany20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 884, bit 1 represents feature option 885, etc. Thus, this parameter provides 32 feature options, options 884 through 915.

The bit will be set to on (1) if the corresponding bit of Glffos12 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos12 in the SMs is off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize this parameter to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard - LP */
        ;
```

***Checks:***

```
/* RULE about Glffall12.values: */

Glffall12 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffall12: */

function func() returning DMULONG
begin
        temp = 0xFFFFFFFF;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp & Glffos12 on modatt.module);
        end
        return temp;
end
func() == Glffall12 on cmp;
```

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# Glffall13

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall13 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffall13

### 1.2 Description:

This global parameter, in conjunction with Glffall0 through Glffall20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffany0 through Glffany20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 916, bit 1 represents feature option 917, etc. Thus, this parameter provides 32 feature options, options 916 through 947.

The bit will be set to on (1) if the corresponding bit of Glffos13 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos13 in the SMs is off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize this parameter to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard - LP */
        ;
```

***Checks:***

```
/* RULE about Glffall13.values: */

Glffall13 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffall13: */

function func() returning DMULONG
begin
        temp = 0xFFFFFFFF;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp & Glffos13 on modatt.module);
        end
        return temp;
end
func() == Glffall13 on cmp;
```

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# Glffall14

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall14 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffall14

### 1.2 Description:

This global parameter, in conjunction with Glffall0 through Glffall20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffany0 through Glffany20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 948, bit 1 represents feature option 949, etc. Thus, this parameter provides 32 feature options, options 948 through 979.

The bit will be set to on (1) if the corresponding bit of Glffos14 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos14 in the SMs is off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, this parameter should be set to the default value of 0.
In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
/* RULE about Glffall14.values: */

Glffall14 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffall14: */

(0xFFFFFFFF & Glffos14) == Glffall14 on cmp;
```

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# Glffall15

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall15 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffall15

### 1.2 Description:

This global parameter, in conjunction with Glffall0 through Glffall20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffany0 through Glffany20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 980, bit 1 represents feature option 981, etc. Thus, this parameter provides 32 feature options, options 980 through 1011.

The bit will be set to on (1) if the corresponding bit of Glffos15 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos15 in the SMs is off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, this parameter should be set to the default value of 0.
In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
/* RULE about Glffall15.values: */

Glffall15 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffall15: */

(0xFFFFFFFF & Glffos15) == Glffall15 on cmp;
```

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# Glffall16

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall16 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffall16

### 1.2 Description:

This global parameter, in conjunction with Glffall0 through Glffall20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffany0 through Glffany20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 1012, bit 1 represents feature option 1013, etc. Thus, this parameter provides 32 feature options, options 1012 through 1043.

The bit will be set to on (1) if the corresponding bit of Glffos16 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos16 in the SMs is off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, this parameter should be set to the default value of 0.
In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
/* RULE about Glffall16.values: */

Glffall16 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffall16: */

(0xFFFFFFFF & Glffos16) == Glffall16 on cmp;
```

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# Glffall17

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall17 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffall17

### 1.2 Description:

This global parameter, in conjunction with Glffall0 through Glffall20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffany0 through Glffany20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 1044, bit 1 represents feature option 1045, etc. Thus, this parameter provides 32 feature options, options 1044 through 1075.

The bit will be set to on (1) if the corresponding bit of Glffos17 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos17 in the SMs is off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, this parameter should be set to the default value of 0.
In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
/* RULE about Glffall17.values: */

Glffall17 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffall17: */

(0xFFFFFFFF & Glffos17) == Glffall17 on cmp;
```

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# Glffall18

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall18 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffall18

### 1.2 Description:

This global parameter, in conjunction with Glffall0 through Glffall20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffany0 through Glffany20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 1076, bit 1 represents feature option 1077, etc. Thus, this parameter provides 32 feature options, options 1076 through 1107.

The bit will be set to on (1) if the corresponding bit of Glffos18 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos18 in the SMs is off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, this parameter should be set to the default value of 0.
In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
/* RULE about Glffall18.values: */

Glffall18 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffall18: */

(0xFFFFFFFF & Glffos18) == Glffall18 on cmp;
```

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# Glffall19

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall19 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffall19

### 1.2 Description:

This global parameter, in conjunction with Glffall0 through Glffall20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffany0 through Glffany20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 1108, bit 1 represents feature option 1109, etc. Thus, this parameter provides 32 feature options, options 1108 through 1139.

The bit will be set to on (1) if the corresponding bit of Glffos19 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos19 in the SMs is off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, this parameter should be set to the default value of 0.
In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
/* RULE about Glffall19.values: */

Glffall19 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffall19: */

(0xFFFFFFFF & Glffos19) == Glffall19 on cmp;
```

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# Glffall20

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffall20 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffall20

### 1.2 Description:

This global parameter, in conjunction with Glffall0 through Glffall20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffany0 through Glffany20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 1140, bit 1 represents feature option 1141, etc. Thus, this parameter provides 32 feature options, options 1140 through 1171.

The bit will be set to on (1) if the corresponding bit of Glffos20 in all the operational SMs are on (1); the bit will be set to off (0) if any of the corresponding bit of Glffos20 in the SMs is off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, this parameter should be set to the default value of 0.
In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
/* RULE about Glffall20.values: */

Glffall20 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffall20: */

(0xFFFFFFFF & Glffos20) == Glffall20 on cmp;
```

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# Glffany0

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany0 | LP | DMhex32 |

### 1.1 Glffany0

Global Office Parameter Glffany0

### 1.2 Description

This parameter, in conjunction with Glffany1 to Glffany7 in the CMP, is used by Optioned Feature System (OFS) for 5E9 and later software releases. Along with Glffall0 to Glffall7, these parameters represent the 'office' setting of the feature options (also known as, TFOS bits) and are populated from Glffos0 to Glffos7 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 500, bit 1 represents feature option 501, etc. Thus, this parameter provides 32 feature options, options 500 through 531. The bit will be set to on (1) if any of the corresponding bit of Glffos0 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos0 in all the SMs are off (0).

This parameter is populated by Recent Change. Glffos0

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, whenever a tuple exists in the relation RLsf12 keyed by ks=0 and ksubrid=0, this parameter must preserve the value of RLsf12.al1. If the tuple does not exist, this parameter should be built per the previous description.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
/* standard - LP */

;
```

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***Checks:***

```
/* RULE about Glffany0.values: */

Glffany0 on cmp is_in {0 thru 0xFFFFFFFF};

/* RULE about Glffany0: */

function func() returning boolean
begin
        temp = 0;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp | Glffos0 on modatt.module);
        end
        assert(temp == Glffany0 on cmp);
        return true;
end

func();
```

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# Glffany1

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany1 | LP | DMhex32 |

### 1.1 Glffany1

Global Office Parameter Glffany1

### 1.2 Description

This parameter, in conjunction with Glffany0, Glffany2 to Glffany7 in the CMP, is used by Optioned Feature System (OFS) for 5E9 and later software releases. Along with Glffall0 to Glffall7, these parameters represent the 'office' setting of the feature options (also known as, TFOS bits) and are populated from Glffos0 to Glffos7 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 532, bit 1 represents feature option 533, etc. Thus, this parameter provides 32 feature options, options 532 through 563. The bit will be set to on (1) if any of the corresponding bit of Glffos1 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos1 in all the SMs are off (0).

This parameter is populated by Recent Change.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, whenever a tuple exists in the relation RLsf12 keyed by ks=1 and ksubrid=0, this parameter must preserve the value of RLsf12.al1. If the tuple does not exist, this parameter should be built per the previous description.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
/* standard - LP */

;
```

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***Checks:***

```
/* RULE about Glffany1.values: */

Glffany1 on cmp is_in {0 thru 0xFFFFFFFF};

/* RULE about Glffany1: */

function func() returning boolean
begin
        temp = 0;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in { 1 thru 192 })
        begin
                temp = (temp | Glffos1 on modatt.module);
        end
        assert(temp == Glffany1 on cmp );
        return true;
end

func();
```

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# Glffany2

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany2 | LP | DMhex32 |

### 1.1 Glffany2

Global Office Parameter Glffany2

### 1.2 Description

This parameter, in conjunction with Glffany0, Glffany1, Glffany3 to Glffany7 in the CMP, is used by Optioned Feature System (OFS) for 5E9 and later software releases. Along with Glffall0 to Glffall7, these parameters represent the 'office' setting of the feature options (also known as, TFOS bits) and are populated from Glffos0 to Glffos7 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 564, bit 1 represents feature option 565, etc. Thus, this parameter provides 32 feature options, options 564 through 595. The bit will be set to on (1) if any of the corresponding bit of Glffos2 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos2 in all the SMs are off (0).

This parameter is populated by Recent Change.

Glffos2

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, whenever a tuple exists in the relation RLsf12 keyed by ks=2 and ksubrid=0, this parameter must preserve the value of RLsf12.al1. If the tuple does not exist, this parameter should be built per the previous description.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
/* standard - LP */
```

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```
;
```

***Checks:***

```
/* RULE about Glffany2.values: */

Glffany2 on cmp is_in {0 thru 0xFFFFFFFF};
/* RULE about Glffany2: */

function func() returning boolean
begin
        temp = 0;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp | Glffos2 on modatt.module);
        end
        assert(temp == Glffany2 on cmp);
        return true;
end

func();
```

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# Glffany3

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany3 | LP | DMhex32 |

### 1.1 Glffany3

Global Office Parameter Glffany3

### 1.2 Description

This parameter, in conjunction with Glffany0 to Glffany2, Glffany4 to Glffany7 in the CMP, is used by Optioned Feature System (OFS) for 5E9 and later software releases. Along with Glffall0 to Glffall7, these parameters represent the 'office' setting of the feature options (also known as, TFOS bits) and are populated from Glffos0 to Glffos7 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 596, bit 1 represents feature option 597, etc. Thus, this parameter provides 32 feature options, options 596 through 627. The bit will be set to on (1) if any of the corresponding bit of Glffos3 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos3 in all the SMs are off (0).

This parameter is populated by Recent Change.

Glffos3

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, whenever a tuple exists in the relation RLsf12 keyed by ks=3 and ksubrid=0, this parameter must preserve the value of RLsf12.al1. If the tuple does not exist, this parameter should be built per the previous description.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
/* standard - LP */
```

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```
;
```

***Checks:***

```
/* RULE about Glffany3.values: */

Glffany3 on cmp is_in {0 thru 0xFFFFFFFF};

/* RULE about Glffany3: */
function func() returning boolean
begin
        temp = 0;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp | Glffos3 on modatt.module);
        end
        assert(temp == Glffany3 on cmp);
        return true;
end

func();
```

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# Glffany4

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany4 | LP | DMhex32 |

### 1.1 Glffany4

Global Office Parameter Glffany4

### 1.2 Description

This parameter, in conjunction with Glffany0 to Glffany3, Glffany5 to Glffany7 in the CMP, is used by Optioned Feature System (OFS) for 5E9 and later software releases. Along with Glffall0 to Glffall7, these parameters represent the 'office' setting of the feature options (also known as, TFOS bits) and are populated from Glffos0 to Glffos7 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 628, bit 1 represents feature option 629, etc. Thus, this parameter provides 32 feature options, options 628 through 659. The bit will be set to on (1) if any of the corresponding bit of Glffos4 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos4 in all the SMs are off (0).

This parameter is populated by Recent Change.

Glffos4

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, this parameter should be set to the default value of 0.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard - LP */

;
```

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***Checks:***

```
/* RULE about Glffany4.values: */

Glffany4 on cmp is_in {0 thru 0xFFFFFFFF};

/* RULE about Glffany4: */
function func() returning boolean
begin
        temp = 0;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp | Glffos4 on modatt.module);
        end
        assert(temp == Glffany4 on cmp );
        return true;
end

func();
```

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# Glffany5

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany5 | LP | DMhex32 |

### 1.1 Glffany5

Global Office Parameter Glffany5

### 1.2 Description

This parameter, in conjunction with Glffany0 to Glffany4, Glffany6 to Glffany7 in the CMP, is used by Optioned Feature System (OFS) for 5E9 and later software releases. Along with Glffall0 to Glffall7, these parameters represent the 'office' setting of the feature options (also known as, TFOS bits) and are populated from Glffos0 to Glffos7 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 660, bit 1 represents feature option 661, etc. Thus, this parameter provides 32 feature options, options 660 through 691. The bit will be set to on (1) if any of the corresponding bit of Glffos5 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos5 in all the SMs are off (0).

This parameter is populated by Recent Change.

Glffos5

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, this parameter should be set to the default value of 0.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard - LP */

;
```

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***Checks:***

```
/* RULE about Glffany5.values: */

Glffany5 on cmp is_in {0 thru 0xFFFFFFFF};

/* RULE about Glffany5: */
function func() returning boolean
begin
        temp = 0;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp | Glffos5 on modatt.module);
        end
        assert(temp == Glffany5 on cmp );
        return true;
end

func();
```

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# Glffany6

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany6 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffany6

### 1.2 Description:

This parameter, in conjunction with Glffany0 to Glffany5, Glffany7 in the CMP, is used by Optioned Feature System (OFS) for 5E9 and later Software Releases. Along with Glffall0 to Glffall7, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos7 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 692, bit 1 represents feature option 693, etc. Thus, this parameter provides 32 feature options, options 692 through 723. The bit will be set to on (1) if any of the corresponding bit of Glffos6 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos6 in all the SMs are off (0).

This parameter is populated by Recent Change. Glffos6.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, this parameter should be set to the default value of 0. In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glffany6.values: */
```

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```
Glffany6 on cmp is_in {0 thru 0xFFFFFFFF};

/* RULE about Glffany6: */

if (runucv) then
(0 | Glffos6) == Glffany6 on cmp ;
```

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# Glffany7

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany7 | LP | DMhex32 |

### 1.1 Glffany7

Global Office Parameter Glffany7

### 1.2 Description

This parameter, in conjunction with Glffany0 to Glffany6 in the CMP, is used by Optioned Feature System (OFS) for 5E9 and later software releases. Along with Glffall0 to Glffall7, these parameters represent the 'office' setting of the feature options (also known as, TFOS bits) and are populated from Glffos0 to Glffos7 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 724, bit 1 represents feature option 725, etc. Thus, this parameter provides 32 feature options, options 724 through 755. The bit will be set to on (1) if any of the corresponding bit of Glffos7 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos7 in all the SMs are off (0).

This parameter is populated by Recent Change.

Glffos7

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, this parameter should be set to the default value of 0.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard - LP */

;
```

***Checks:***

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```
/* RULE about Glffany7.values: */

Glffany7 on cmp is_in {0 thru 0xFFFFFFFF};

/* RULE about Glffany7: */

(0 | Glffos7) == Glffany7 on cmp;
```

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# Glffany8

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany8 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffany8

### 1.2 Description:

This global parameter, in conjunction with Glffany0 through Glffany20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffall0 through Glffall20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 756, bit 1 represents feature option 757, etc. Thus, this parameter provides 32 feature options, options 756 through 787.

The bit will be set to on (1) if any of the corresponding bit of Glffos8 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos8 in all the SMs are off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, this parameter should be set to the default value of 0.
In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
/* RULE about Glffany8.values: */

Glffany8 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffany8: */

function func() returning DMULONG
begin
        temp = 0;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp | Glffos8 on modatt.module);
        end
        return temp;
end
func() == Glffany8 on cmp;
```

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# Glffany9

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany9 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffany9

### 1.2 Description:

This global parameter, in conjunction with Glffany0 through Glffany20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffall0 through Glffall20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 788, bit 1 represents feature option 789, etc. Thus, this parameter provides 32 feature options, options 788 through 819.

The bit will be set to on (1) if any of the corresponding bit of Glffos9 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos9 in all the SMs are off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, this parameter should be set to the default value of 0.
In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
/* RULE about Glffany9.values: */

Glffany9 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffany9: */

function func() returning DMULONG
begin
        temp = 0;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp | Glffos9 on modatt.module);
        end
        return temp;
end
func() == Glffany9 on cmp;
```

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# Glffany10

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany10 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffany10

### 1.2 Description:

This global parameter, in conjunction with Glffany0 through Glffany20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffall0 through Glffall20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 820, bit 1 represents feature option 821, etc. Thus, this parameter provides 32 feature options, options 820 through 851.

The bit will be set to on (1) if any of the corresponding bit of Glffos10 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos10 in all the SMs are off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, this parameter should be set to the default value of 0.
In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
/* RULE about Glffany10.values: */

Glffany10 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffany10: */

function func() returning DMULONG
begin
        temp = 0;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp | Glffos10 on modatt.module);
        end
        return temp;
end
func() == Glffany10 on cmp;
```

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# Glffany11

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany11 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffany11

### 1.2 Description:

This global parameter, in conjunction with Glffany0 through Glffany20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffall0 through Glffall20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 852, bit 1 represents feature option 853, etc. Thus, this parameter provides 32 feature options, options 852 through 883.

The bit will be set to on (1) if any of the corresponding bit of Glffos11 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos11 in all the SMs are off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, this parameter should be set to the default value of 0.
In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
/* RULE about Glffany11.values: */

Glffany11 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffany11: */

function func() returning DMULONG
begin
        temp = 0;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp | Glffos11 on modatt.module);
        end
        return temp;
end
func() == Glffany11 on cmp;
```

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# Glffany12

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany12 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffany12

### 1.2 Description:

This global parameter, in conjunction with Glffany0 through Glffany20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffall0 through Glffall20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 884, bit 1 represents feature option 885, etc. Thus, this parameter provides 32 feature options, options 884 through 915.

The bit will be set to on (1) if any of the corresponding bit of Glffos12 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos12 in all the SMs are off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, this parameter should be set to the default value of 0.
In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
/* RULE about Glffany12.values: */

Glffany12 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffany12: */

function func() returning DMULONG
begin
        temp = 0;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp | Glffos12 on modatt.module);
        end
        return temp;
end
func() == Glffany12 on cmp;
```

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# Glffany13

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany13 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffany13

### 1.2 Description:

This global parameter, in conjunction with Glffany0 through Glffany20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffall0 through Glffall20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 916, bit 1 represents feature option 917, etc. Thus, this parameter provides 32 feature options, options 916 through 947.

The bit will be set to on (1) if any of the corresponding bit of Glffos13 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos13 in all the SMs are off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, this parameter should be set to the default value of 0.
In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
/* RULE about Glffany13.values: */

Glffany13 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffany13: */

function func() returning DMULONG
begin
        temp = 0;
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module is_in sm_all)
        begin
                temp = (temp | Glffos13 on modatt.module);
        end
        return temp;
end
func() == Glffany13 on cmp;
```

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# Glffany14

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany14 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffany14

### 1.2 Description:

This global parameter, in conjunction with Glffany0 through Glffany20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffall0 through Glffall20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 948, bit 1 represents feature option 949, etc. Thus, this parameter provides 32 feature options, options 948 through 979.

The bit will be set to on (1) if any of the corresponding bit of Glffos14 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos14 in all the SMs are off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, this parameter should be set to the default value of 0.
In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
/* RULE about Glffany14.values: */

Glffany14 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffany14: */

(0 | Glffos14) == Glffany14 on cmp;
```

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# Glffany15

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany15 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffany15

### 1.2 Description:

This global parameter, in conjunction with Glffany0 through Glffany20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffall0 through Glffall20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 980, bit 1 represents feature option 981, etc. Thus, this parameter provides 32 feature options, options 980 through 1011.

The bit will be set to on (1) if any of the corresponding bit of Glffos15 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos15 in all the SMs are off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, this parameter should be set to the default value of 0.
In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
/* RULE about Glffany15.values: */

Glffany15 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffany15: */

(0 | Glffos15) == Glffany15 on cmp;
```

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# Glffany16

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany16 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffany16

### 1.2 Description:

This global parameter, in conjunction with Glffany0 through Glffany20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffall0 through Glffall20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 1012, bit 1 represents feature option 1013, etc. Thus, this parameter provides 32 feature options, options 1012 through 1043.

The bit will be set to on (1) if any of the corresponding bit of Glffos16 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos16 in all the SMs are off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, this parameter should be set to the default value of 0.
In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
/* RULE about Glffany16.values: */

Glffany16 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffany16: */

(0 | Glffos16) == Glffany16 on cmp;
```

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# Glffany17

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany17 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffany17

### 1.2 Description:

This global parameter, in conjunction with Glffany0 through Glffany20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffall0 through Glffall20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 1044, bit 1 represents feature option 1045, etc. Thus, this parameter provides 32 feature options, options 1044 through 1075.

The bit will be set to on (1) if any of the corresponding bit of Glffos17 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos17 in all the SMs are off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, this parameter should be set to the default value of 0.
In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
/* RULE about Glffany17.values: */

Glffany17 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffany17: */

(0 | Glffos17) == Glffany17 on cmp;
```

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# Glffany18

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany18 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffany18

### 1.2 Description:

This global parameter, in conjunction with Glffany0 through Glffany20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffall0 through Glffall20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 1076, bit 1 represents feature option 1077, etc. Thus, this parameter provides 32 feature options, options 1076 through 1107.

The bit will be set to on (1) if any of the corresponding bit of Glffos18 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos18 in all the SMs are off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, this parameter should be set to the default value of 0.
In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
/* RULE about Glffany18.values: */

Glffany18 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffany18: */

(0 | Glffos18) == Glffany18 on cmp;
```

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# Glffany19

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany19 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffany19

### 1.2 Description:

This global parameter, in conjunction with Glffany0 through Glffany20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffall0 through Glffall20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 1108, bit 1 represents feature option 1109, etc. Thus, this parameter provides 32 feature options, options 1108 through 1139.

The bit will be set to on (1) if any of the corresponding bit of Glffos19 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos19 in all the SMs are off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, this parameter should be set to the default value of 0.
In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
/* RULE about Glffany19.values: */

Glffany19 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffany19: */

(0 | Glffos19) == Glffany19 on cmp;
```

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# Glffany20

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffany20 | LP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffany20

### 1.2 Description:

This global parameter, in conjunction with Glffany0 through Glffany20 in the CMP, is used by Feature Optioning System (FOS). Along with Glffall0 through Glffall20, these parameters represent the 'office' setting of the feature options (also known as TFOS bits) and are populated from Glffos0 to Glffos20 in each SM.

Each bit in this parameter represents a feature option. Bit 0 represents feature option 1140, bit 1 represents feature option 1141, etc. Thus, this parameter provides 32 feature options, options 1140 through 1171.

The bit will be set to on (1) if any of the corresponding bit of Glffos20 in the SMs is on (1); the bit will be set to off (0) if the corresponding bit of Glffos20 in all the SMs are off (0).

This parameter is populated by Recent Change view 8.31.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, this parameter should be set to the default value of 0.
In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
/* RULE about Glffany20.values: */

Glffany20 on cmp is_in {0 thru 0xFFFFFFFF};
```

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```
/* RULE about Glffany20: */

(0 | Glffos20) == Glffany20 on cmp;
```

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# Glffos0

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos0 | FP | DMhex32 |

### 1.1 Glffos0

Global Office Parameter Glffos0

### 1.2 Description

This parameter, in conjunction with Glffos1, Glffos2, and Glffos3, is used by the optioned feature system (OFS) for 5E6 and later software releases. This parameter is not SM redundant, and is used to set or reset the feature options in an individual SM. Each bit in this parameter represents a feature option. Bit 0 represents feature option 500, bit 1 represents feature option 501, etc. Thus, this parameter provides 32 feature options, options 500 through 531. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

In a retrofit from 5E5 to 5E6, this parameter must preserve the value from Glim6dummy. In other generic retrofits, ODA must recover this parameter. This parameter is populated by recent change (RC). ODA should initialize this parameter to 0.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glffos0.values: */

if (current_pcr is_in sm_all) then
begin
```

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```
      Glffos0 is_in {0 thru 0xFFFFFFFF};
end
```

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# Glffos1

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos1 | FP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffos1

### 1.2 Description:

This parameter, in conjunction with Glffos0, Glffos2, and Glffos3, is used by the Optioned Feature System (OFS) for 5E6 and later Software Releases. This parameter is not SM redundant, and is used to set or reset the feature options in an individual SM. Each bit in this parameter represents a feature option. Bit 0 represents feature option 532, bit 1 represents feature option 533, etc. Thus, this parameter provides 32 feature options, options 532 through 563. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

OFS allows the ability for a given feature option to be set to different values on each SM (that is, not SM redundant). For example, 532 could be on (1) in one SM and off (0) in another SM. However, some feature options must be set to the same value for the entire office (that is, SM redundant). These feature options are:

- 541 (Bit 9) - 550 (Bit 18)
- 553 (Bit 21) - 557 (Bit 25)

ODA must recover this parameter on a retrofit. This parameter is populated by Recent Change. ODA should initialize this parameter to 0.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***

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env.R

***Checks:***

```
/* RULE about Glffos1.values: */

if (current_pcr is_in sm_all) then
begin
Glffos1 is_in {0 thru 0xFFFFFFFF};


if(current_pcr is_in sm_all) then
begin
        for modatt in RLmodatt
        where (modatt.eqstat == SMOPER &&
                modatt.module == current_pcr)
        begin
                for modatt1 in RLmodatt
                where (modatt1.module is_in sm_all &&
                        modatt1.eqstat == SMOPER)
                begin
                        if (runucv) then
                        (Glffos1 on modatt.module){9} == (Glffos1 on (modatt1.module)
){9};
                        if (runucv) then
                        (Glffos1 on modatt.module){18} == (Glffos1 on (modatt1.module
)){18};
                        if (runucv) then
                        (Glffos1 on modatt.module){21} == (Glffos1 on (modatt1.module
)){21};
                        if (runucv) then
                        (Glffos1 on modatt.module){25} == (Glffos1 on (modatt1.module
)){25};
                end
        end
end

end
```

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# Glffos2

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos2 | FP | DMhex32 |

### 1.1 Glffos2

Global Office Parameter Glffos2

### 1.2 Description

This parameter, in conjunction with Glffos0, Glffos1, and Glffos3, is used by the optioned feature system (OFS) for 5E6 and later software releases. This parameter is not SM redundant and is used to set or reset the feature options in an individual SM. Each bit in this parameter represents a feature option. Bit 0 represents feature option 564, bit 1 represents feature option 565, etc. Thus, this parameter provides 32 feature options, options 564 through 595. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

ODA must recover this parameter on a retrofit. This parameter is populated by recent change (RC). ODA should initialize this parameter to 0.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glffos2.values: */

if (current_pcr is_in sm_all) then
begin
       Glffos2 is_in {0 thru 0xFFFFFFFF};
```

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```
end
```

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# Glffos3

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos3 | FP | DMhex32 |

### 1.1 Glffos3

Global Office Parameter Glffos3

### 1.2 Description

This parameter, in conjunction with Glffos0, Glffos1, and Glffos2, is used by the optioned feature system (OFS) for 5E6 and later software releases. This parameter is not SM redundant and is used to set or reset the feature options in an individual SM. Each bit in this parameter represents a feature option. Bit 0 represents feature option 596, bit 1 represents feature option 597, etc. Thus, this parameter provides 32 feature options, options 596 through 627. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

ODA must recover this parameter on a retrofit. This parameter is populated by recent change (RC). ODA should initialize this parameter to 0.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glffos3.values: */

if (current_pcr is_in sm_all) then
begin
      Glffos3 is_in {0 thru 0xFFFFFFFF};
```

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```
end
```

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# Glffos4

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos4 | FP | DMhex32 |

### 1.1 Glffos4

Global Office Parameter Glffos4

### 1.2 Description

This parameter, in conjunction with Glffos5, Glffos6, and Glffos7, is used by the optioned feature system (OFS) for 5E9 and later software releases. This parameter is not SM redundant and used to set or reset the feature options in an individual SM. Each bit in this parameter represents a feature option. Bit 0 represents feature option 628, bit 1 represents feature option 629, etc. Thus, this parameter provides 32 feature options, options 628 through 659. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is populated by recent change (RC).

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glffos4 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glffos4.values: */

if (current_pcr is_in sm_all) then
begin
       Glffos4 is_in {0 thru 0xFFFFFFFF};
end
```

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# Glffos5

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos5 | FP | DMhex32 |

### 1.1 Glffos5

Global Office Parameter Glffos5

### 1.2 Description

This parameter, in conjunction with Glffos4, Glffos6, and Glffos7, is used by the optioned feature system (OFS) for 5E9 and later software releases. This parameter is not SM redundant and is used to set or reset the feature options in an individual SM. Each bit in this parameter represents a feature option. Bit 0 represents feature option 660, bit 1 represents feature option 661, etc. Thus, this parameter provides 32 feature options, options 660 through 691. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is populated by recent change (RC).

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glffos5 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glffos5.values: */

if (current_pcr is_in sm_all) then
begin
       Glffos5 is_in {0 thru 0xFFFFFFFF};
end
```

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# Glffos6

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos6 | LRFR | DMhex32 |

### 1.1 Glffos6

Global Office Parameter Glffos6

### 1.2 Description

This parameter, in conjunction with Glffos4, Glffos5, and Glffos7, is used by the optioned feature system (OFS) for 5E9 and later software releases. This parameter is used to set or reset the feature options on all the processors. This parameter is SM redundant and must be set to the same value for all SMs in the office. Each bit in this parameter represents a feature option. Bit zero represents feature option 692, bit one represents feature option 693, etc. Thus, this parameter provides 32 feature options, options 692 through 723. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is populated by RC/V.

***Retrofit Rules:*** In a retrofit from 5E8(1) to 5E9, ODA should initialize Glffos6 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glffos6.values: */

Glffos6 is_in {0 thru 0xFFFFFFFF};
```

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# Glffos7

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos7 | LRFR | DMhex32 |

### 1.1 Glffos7

Global Office Parameter Glffos7

### 1.2 Description

This parameter, in conjunction with Glffos4, Glffos5, and Glffos6, is used by the optioned feature system (OFS) for 5E9 and later software releases. This parameter is used to set or reset the feature options on all the processors. This parameter is SM redundant and must be set to the same value for all SMs in the office. Each bit in this parameter represents a feature option. Bit zero represents feature option 724, bit one represents feature option 725, etc. Thus, this parameter provides 32 feature options, options 724 through 755. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is populated by RC/V.

***Retrofit Rules:*** In a retrofit from 5E8(1) to 5E9, ODA should initialize Glffos7 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glffos7.values: */

Glffos7 is_in {0 thru 0xFFFFFFFF};
```

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# Glffos8

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos8 | FP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffos8

### 1.2 Description:

This parameter, is used by the Optioned Feature System (OFS) for 5E3 and later Software Releases. This parameter is not SM redundant and is used to set or reset the feature options in an individual SM. Each bit in this parameter represents a feature option. Bit 0 represents feature option 756, bit 1 represents feature option 757, etc. Thus, this parameter provides 32 feature options, options 756 through 787. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is populated by Recent Change view 8.31.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glffos8 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glffos8.values: */

if (current_pcr is_in sm_all) then
begin
Glffos8 is_in {0 thru 0xFFFFFFFF};
end
```

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# Glffos9

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos9 | FP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffos9

### 1.2 Description:

This parameter is used by the Optioned Feature System (OFS) for 5E13 and later Software Releases. This parameter is not SM redundant and is used to set or reset the feature options in an individual SM. Each bit in this parameter represents a feature option. Bit 0 represents feature option 788, bit 1 represents feature option 789, etc. Thus, this parameter provides 32 feature options, options 788 through 819. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is populated by Recent Change view 8.31.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glffos9 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glffos9.values: */

if (current_pcr is_in sm_all) then
begin
Glffos9 is_in {0 thru 0xFFFFFFFF};
end
```

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# Glffos10

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos10 | FP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffos10

### 1.2 Description:

This parameter is used by the Optioned Feature System (OFS) for 5E13 and later Software Releases. This parameter is not SM redundant and is used to set or reset the feature options in an individual SM. Each bit in this parameter represents a feature option. Bit 0 represents feature option 820, bit 1 represents feature option 821, etc. Thus, this parameter provides 32 feature options, options 820 through 851. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is populated by Recent Change view 8.31.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glffos10 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glffos10.values: */

if (current_pcr is_in sm_all) then
begin
Glffos10 is_in {0 thru 0xFFFFFFFF};
end
```

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# Glffos11

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos11 | FP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffos11

### 1.2 Description:

This parameter is used by the Optioned Feature System (OFS) for 5E13 and later Software Releases. This parameter is not SM redundant and is used to set or reset the feature options in an individual SM. Each bit in this parameter represents a feature option. Bit 0 represents feature option 852, bit 1 represents feature option 853, etc. Thus, this parameter provides 32 feature options, options 852 through 883. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is populated by Recent Change view 8.31.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glffos11 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glffos11.values: */

if (current_pcr is_in sm_all) then
begin
Glffos11 is_in {0 thru 0xFFFFFFFF};
end
```

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# Glffos12

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos12 | FP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffos12

### 1.2 Description:

This parameter is used by the Optioned Feature System (OFS) for 5E13 and later Software Releases. This parameter is not SM redundant and is used to set or reset the feature options in an individual SM. Each bit in this parameter represents a feature option. Bit 0 represents feature option 884, bit 1 represents feature option 885, etc. Thus, this parameter provides 32 feature options, options 884 through 915. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is populated by Recent Change view 8.31.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glffos12 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glffos12.values: */

if (current_pcr is_in sm_all) then
begin
Glffos12 is_in {0 thru 0xFFFFFFFF};
end
```

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# Glffos13

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos13 | FP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffos13

### 1.2 Description:

This parameter is used by the Optioned Feature System (OFS) for 5E13 and later Software Releases. This parameter is not SM redundant and is used to set or reset the feature options in an individual SM. Each bit in this parameter represents a feature option. Bit 0 represents feature option 916, bit 1 represents feature option 917, etc. Thus, this parameter provides 32 feature options, options 916 through 947. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is populated by Recent Change view 8.31.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glffos13 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glffos13.values: */

if (current_pcr is_in sm_all) then
begin
Glffos13 is_in {0 thru 0xFFFFFFFF};
end
```

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# Glffos14

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos14 | LRFR | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffos14

### 1.2 Description:

This parameter is used by the Optioned Feature System (OFS) for 5E13 and later Software Releases. This parameter is used to set or reset the feature options on all the processors. This parameter is SM redundant and must be set to the same value for all SMs in the office. Each bit in this parameter represents a feature option. Bit 0 represents feature option 948, bit 1 represents feature option 949, etc. Thus, this parameter provides 32 feature options, options 948 through 979. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is populated by Recent Change view 8.31.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glffos14 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glffos14.values: */

Glffos14 is_in {0 thru 0xFFFFFFFF};
```

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# Glffos15

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos15 | LRFR | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffos15

### 1.2 Description:

This parameter is used by the Optioned Feature System (OFS) for 5E13 and later Software Releases. This parameter is used to set or reset the feature options on all the processors. This parameter is SM redundant and must be set to the same value for all SMs in the office. Each bit in this parameter represents a feature option. Bit 0 represents feature option 980, bit 1 represents feature option 981, etc. Thus, this parameter provides 32 feature options, options 980 through 1011. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is populated by Recent Change view 8.31.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glffos15 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glffos15.values: */

Glffos15 is_in {0 thru 0xFFFFFFFF};
```

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# Glffos16

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos16 | LRFR | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffos16

### 1.2 Description:

This parameter is used by the Optioned Feature System (OFS) for 5E13 and later Software Releases. This parameter is used to set or reset the feature options on all the processors. This parameter is SM redundant and must be set to the same value for all SMs in the office. Each bit in this parameter represents a feature option. Bit 0 represents feature option 1012, bit 1 represents feature option 1013, etc. Thus, this parameter provides 32 feature options, options 1012 through 1043. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is populated by Recent Change view 8.31.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glffos16 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glffos16.values: */

Glffos16 is_in {0 thru 0xFFFFFFFF};
```

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# Glffos17

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos17 | LRFR | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffos17

### 1.2 Description:

This parameter is used by the Optioned Feature System (OFS) for 5E13 and later Software Releases. This parameter is used to set or reset the feature options on all the processors. This parameter is SM redundant and must be set to the same value for all SMs in the office. Each bit in this parameter represents a feature option. Bit 0 represents feature option 1044, bit 1 represents feature option 1045, etc. Thus, this parameter provides 32 feature options, options 1044 through 1075. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is populated by Recent Change view 8.31.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glffos17 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glffos17.values: */

Glffos17 is_in {0 thru 0xFFFFFFFF};
```

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# Glffos18

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos18 | LRFR | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffos18

### 1.2 Description:

This parameter is used by the Optioned Feature System (OFS) for 5E13 and later Software Releases. This parameter is used to set or reset the feature options on all the processors. This parameter is SM redundant and must be set to the same value for all SMs in the office. Each bit in this parameter represents a feature option. Bit 0 represents feature option 1076, bit 1 represents feature option 1077, etc. Thus, this parameter provides 32 feature options, options 1076 through 1107. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is populated by Recent Change view 8.31.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glffos18 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glffos18.values: */

Glffos18 is_in {0 thru 0xFFFFFFFF};
```

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# Glffos19

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos19 | LRFR | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffos19

### 1.2 Description:

This parameter is used by the Optioned Feature System (OFS) for 5E13 and later Software Releases. This parameter is used to set or reset the feature options on all the processors. This parameter is SM redundant and must be set to the same value for all SMs in the office. Each bit in this parameter represents a feature option. Bit 0 represents feature option 1108, bit 1 represents feature option 1109, etc. Thus, this parameter provides 32 feature options, options 1108 through 1139. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is populated by Recent Change view 8.31.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glffos19 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glffos19.values: */

Glffos19 is_in {0 thru 0xFFFFFFFF};
```

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# Glffos20

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glffos20 | LRFR | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glffos20

### 1.2 Description:

This parameter is used by the Optioned Feature System (OFS) for 5E13 and later Software Releases. This parameter is used to set or reset the feature options on all the processors. This parameter is SM redundant and must be set to the same value for all SMs in the office. Each bit in this parameter represents a feature option. Bit 0 represents feature option 1140, bit 1 represents feature option 1141, etc. Thus, this parameter provides 32 feature options, options 1140 through 1171. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is populated by Recent Change view 8.31.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glffos20 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glffos20.values: */

Glffos20 is_in {0 thru 0xFFFFFFFF};
```

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# Glfgdph

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfgdph | FR | DMfgdph |

### 1.1 Glfgdph

Global Office Parameter Glfgdph - Feature Group D phase of the office

### 1.2 Description

The Feature Group D phase of the office can be set to: Pre-permissive phase - refers to the period of time during which ordinary subscribers are allowed to dial only the 10XXX access code. This phase does not impact dialing of 950 calls or any others features.

Permissive phase - the period of time during which ordinary subscribers are allowed to dial either the 10XXX and the 101XXXX access code on a call by call basis. This phase does not impact dialing of 950 calls or any other features.

Post-permissive phase - refers to the period of time during which ordinary subscribers are allowed to dial only the 101XXXX access code. This phase does not impact dialing of 950 calls or any others features.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** PREPHASE

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** If the office updates to the post-permissive phase, then a tuple must exist in RLtatype keyed by the error type RT_INVCAC.

***Retrofit Rules:*** The office parameter should be set to PREPHASE (pre-permissive phase).

***Default Rules:***
```
default = PREPHASE;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glfgdph.values: */

        /* no check */ ;
```

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```
/* RULE about Glfgdph: */

/* Verify that if the phase is post-permissive, then a tuple exists in RLtatype
* keyed by RT_INVCAC so that correct error treatment can be given.
*/

if (Glfgdph == POSTPHASE) then
begin
        find == 1 tatype in RLtatype
        where (tatype.tatype == RT_INVCAC);
end
```

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# Glfildaon

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfildaon | LRFR | DMbool |

### 1.1 Glfildaon

Global Office Parameter Glfildaon

### 1.2 Description

This Global Parameter will indicate whether this office can use the ILS/DPC Policing functionality in this office. The meaning of the values in this Global Parameter are as follows.

```
Value   Meaning

-----   -------

DBNO    Functionality has not been sold

DBYES   Functionality has been sold to

        this customer.
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***

ODA: Depending on the setting, either the feature is allowed globally per market, or can be set per office via a password.

RC: Recent Change and Verify can only update this Global Parameter via a password.

***NOTE:*** The ILS/DPC Policing feature isn't supported, therefore Glfildaon should be populated with DBNO.

***Retrofit Rules:*** None.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

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```
/* Standard */
```

***Checks:***

```
/* Glfildaon should equal DBNO. */

Glfildaon == DBNO;
```

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# Glfl_age

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfl_age | LR | DMshort |

### 1.1 Glfl_age

Global Office Parameter Glfl_age

### 1.2 Description

Days batch file may age before cleanup.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 14

***CMP Initial Value:*** 14

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 14;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glfl_age.values: */

Glfl_age is_in {0 thru 30};
```

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# Glflushcrc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glflushcrc | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glflushcrc

### 1.2 Description:

This parameter dictates when a CORC flush is started based on how full the CORC log buffer is. Any valid positive value assigned to Glflushcrc overrides the default threshold (50%) set by the database system.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 50

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** A RC view (8.27) and ODA form (5510) per-SM field is required.

***Retrofit Rules:*** This value should remain intact during a Generic retrofit.

***Default Rules:***
```
default = 50;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glflushcrc: */

for pcr in sm_all
begin
        Glflushcrc on pcr is_in {20 thru 80};
end
```

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# Glfmaccaon

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfmaccaon | LRFR | DMbool |

### 1.1 Glfmaccaon

Global Office Parameter Glfmaccaon

### 1.2 Description

This Global Parameter will indicate whether this office has the ability to perform MTP Accounting. The meaning of the values in this Global Parameter are as follows.

```
Value   Meaning

-----   -------

DBNO    MTP Accounting functionality has not been sold

DBYES   MTP Accounting functionality has been sold to

        this customer.
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** ***NOTE:*** The MTP Accounting feature isn't supported, therefore Glfmaccaon should be populated with DBNO.

***Retrofit Rules:*** None.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
/* Standard */
```

***Checks:***

```
/* Glfmaccaon should equal DBNO. */

Glfmaccaon == DBNO;
```

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# Glfmrepatt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfmrepatt | FP | DMshort |

### 1.1 Glfmrepatt

Global Office Parameter Glfmrepatt

### 1.2 Description

This parameter is to specify the maximum number of repeated attempts which may be made while trying to route a call from a priority subscriber. Used by Export.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 100

***AM Initial Value:*** 100

***CMP Initial Value:*** 100

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
/* RULE about Glfmrepatt.values: */
   Glfmrepatt is_in {50 thru 200};
end
```

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# Glfocussm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfocussm | FR | DMuns8 |

### 1.1 Glfocussm

Global Office Parameter Glfocussm

### 1.2 Description

The global, Glfocussm, if non-zero, is an SM with a Call Processing Data Link (CPDL) with a vendor of Network Resource Platform (NRP). If the Focus SM value is not zero, then OSPS attempts to establish communication with the External Interface System (EIS) using a CPDL on the Focus SM for an AATLSOS Automated Access Prompting with CDSU call. If the Focus SM is zero, then normal selection of CPDL SM is done.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glfocussm.values: */

Glfocussm is_in {0 thru 192};
```

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# Glfphlphn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfphlphn | FP | DMuns8 |

### 1.1 Glfphlphn

Global Office Parameter Glfphlphn

### 1.2 Description

This Global Parameter will contain the Logical PH number for the Formatting PH used in STP Accounting.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 255

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ***NOTE:*** The STP Accounting feature isn't supported, therefore Glfphlphn should be populated with 0xff.

***Retrofit Rules:*** None

***Default Rules:***

```
default = 0xff;
```

***Distribution Rules:***

```
for gsm_opc in RLgsm_opc
begin
        pcrlist[gsm_opc.gsm] = true;
end
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
       /* Glfphlphn should equal 0xff. */
       Glfphlphn == 0xff;
end
```

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# Glfrn_ama

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfrn_ama | FP | DMushort |

### 1.1 Fullname:

AIN Furnish_AMA_Information relation tuple count

### 1.2 Description:

The Glfrn_ama global parameter contains an SM's current tuple count for rlFRN_AMA. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as ASP feature provisioning increases the number of rlNS_BILL tuples. SFID515 or SFID517 must be unlocked prior to assigning this parameter a value.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glfrn_ama.values: */

if (current_pcr is_in sm_all) then
begin

    /*  Glfrn_ama is_in {0 thru (DBQNFRN_AMA - DBSFFRN_AMA)};  */
        Glfrn_ama is_in {0 thru (32001 - 1)};

/*      RULE about Glfrn_ama:      */
```

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```
        /* SFID515 or SFID517 must be unlocked prior to assigning
         * a  value to Glfrn_ama
         */

        /* The number of FRN_AMA tuples in 20% of Glaspbase */
        let frn_ama = ( Glaspbase > 0 ?  ((20 * Glaspbase) +
                99)/100 : 0 );

    /*  if (frn_ama + Glifrn_ama <= (DBQNFRN_AMA - DBSFFRN_AMA))
     *  then  */
        if (frn_ama + Glifrn_ama <= (32001 - 1)) then
        begin
                Glfrn_ama >= frn_ama + Glifrn_ama;
        end
        else
        begin
            /*  Glfrn_ama == DBQNFRN_AMA - DBSFFRN_AMA  */
                Glfrn_ama == 32001 - 1;
        end
end
```

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# Glfromevol

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfromevol | LR | DMlong |

### 1.1 Glfromevol

Global Office Parameter Glfromevol

### 1.2 Description

This parameter will be used by DB retrofit to know which software release the *5ESS*®-2000 switch was cut over from. The information is needed for reapplication of RC/Vs and CORCs because of the implementation of skip retrofit.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** During LTG, ODA should set the parameter to zero.

***Retrofit Rules:*** During retrofit set to previous software release.

```
Example:
         Evolving from 5E6(1) to 5E8(1):
         Set Glfromevol to 6 in 5E8(1) ODD.

         Evolving from 5E7(1) to 5E8(1):
         Set Glfromevol to 7 in 5E8(1) ODD.
```

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
standard
```

***Checks:***

```
/* RULE about Glfromevol.values: */

        /* no check */ ;
```

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# Glfsesdef

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfsesdef | LRFR | DMses_viol |

### 1.1 Glfsesdef

DS1 Line Facility Severely Errored Seconds Definition.

### 1.2 Description

This parameter defines the number of bipolar violations that constitute a line severely errored second.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 307

***AM Initial Value:*** 307

***CMP Initial Value:*** 307

***RC/ODA Rules:*** This parameter must be settable by ODA and recent changeable on an office basis.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 307;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glfsesdef.values: */

        /* no check */ ;
```

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# Glfsopaon

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfsopaon | LRFR | DMbool |

### 1.1 Glfsopaon

Global Office Parameter Glfsopaon

### 1.2 Description

This Global Parameter will indicate whether this office can use the STP/OPC Policing functionality in this office. The meaning of the values in this Global Parameter are as follows.

```
     Value   Meaning

     -----   -------

     DBNO    Functionality has not been sold

     DBYES   Functionality has been sold to

             this customer.

Meaning of Settings:

     setting 1 Market does not universally allow

               feature - uses on a per office basis.

     setting 2 Market Universally uses feature.
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** ***NOTE:*** The STP/OPC Policing feature isn't supported, therefore Glfnsopaon should be populated with DBNO.

***Retrofit Rules:*** None.

***Default Rules:***

```
default = DBNO;
```

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***Distribution Rules:***

```
/* Standard */
```

***Checks:***

```
/* Glfsopaon should equal DBNO. */

Glfsopaon == DBNO;
```

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# Glfw_carr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glfw_carr | FR | DMbcarid |

### 1.1 Fullname:

Global Office Parameter Glfw_carr

**Defines:**
db/DMcarr_val.h

### 1.2 Description:

This global parameter specifies the default carrier to use for emergency Listing Services calls. This is required for offices supporting Listing Services. See the check for this parameter in the poprules for RLservdata.

Please look in db/DMcarr_val.G for #defines used in this file.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10000

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** On the RC/ODA form, #NULL_BCARID is mapped to unknown. RC must not allow this parameter to be updated to a value which would violate the poprules in RLservdata (rc.9.1).

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = $NULL_BCARID;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glfw_carr.values: */
Glfw_carr is_in {0 thru $FGDMAXBCAR, $NULL_BCARID};

/* RULE about Glfw_carr: */
```

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```
if (Glfw_carr != $NULL_BCARID && Glfw_carr != 0) then
begin
        let str() = itoa(Glfw_carr);
        let len() = 4 - length(str());
        let carr() = (len() == 0) ? str() :
                        strcat(substr("0000", 0, len()), str());

        find == 1 fc_carr in RLfc_carr
        where (fc_carr.carrid == carr());   /* 9.1 */
end
```

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## 3.18 Glg

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# Glgaifltr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glgaifltr | FR | DMfilterid |

### 1.1 Glgaifltr

Anti Induction Filter for GDSF

### 1.2 Description

This parameter defines the anti induction filter used to measure low frequencies during certain trunk tests for GDSF.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** ---

***SM Initial Value:*** AI_NONE

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ODA populates this parameter from MDD files. This global parameter is populated in the MDD file PARAMETER. ODA will use the PARAMETER file to assign the correct value to the above parameter.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = AI_NONE;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
        /* range check */

        Glgaifltr is_in { AI_NONE, AI_100, AI_200, AI_300 };
```

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# Glgbrsnd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glgbrsnd | LRFR | DMshort |

### 1.1 Glgbrsnd

Global Office Parameter Glgbrsnd

### 1.2 Description

Glgbrsnd is the time interval to wait before resending a CCS maintenance/hardware group blocking message (TUP/ISUP protocols) when failing to receive the appropriate acknowledgement in response to the initial CCS maintenance/hardware group blocking message sent. This parameter is used in the AM only. ODA should populate with during retrofits and growths. This parameter is used only when the office contains CCS7 trunks as shown when one or more tuples of RLrt_trkg have in_sigtype or out_sigtype set to DBISUP7 or DBTUP7. Glgbrsnd is specified in seconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 10

***CMP Initial Value:*** 10

***RC/ODA Rules:*** Insure that the SM value is the same as the AM value.

***Retrofit Rules:*** The original value in the AM should be populated in the SMs also.

***Default Rules:***
```
default = 10;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glgbrsnd.values: */

Glgbrsnd is_in {4 thru 15};
```

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# Glgenid

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glgenid | LRFR | DMchar |

### 1.1 Glgenid

Global Office Parameter Glgenid

### 1.2 Description

Following are the description and population rules for the elements of this parameter, Glgenid[0] through Glgenid[4]. Contains the software generic, issue and release numbers. It is sent to EADAS as part of the traffic and Division of Revenue reports. The parameter consists of four characters. Each character is assigned a number as follows:

```
element 1 - Glgenid[0]


  This element always represents the

  software generic, that is, must be set

  to a 1 for 5E1, 2 for 5E2, 3 for 5E3, etc.

  See examples below.




element 2 - Glgenid[1]


  This element represents the issue of

  the specified generic. The first issue

  of a generic always starts at 1, issue

  is never 0. See examples below.




element 3 - Glgenid[2]


  This element represents the release
```

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of the specified issue of a generic. The first release of a generic issue starts at 1, the release of an issue is never 0. See examples below.

element 4 - Glgenid[3]

This element is unused, set it to 0.

Examples:

5E1(2)3 which is generic 1, issue 2, release 3 is specified as 1230.

5E2(2) which represents generic 2, issue 2, ( release 1 is implied ) is specified as 2210.

5E3 which represents generic 3, ( where issue 1, release 1 is implied ) is specified as 3110.

***Type:*** DB4STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

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***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ---

***AM Initial Value:*** 8110

***CMP Initial Value:*** 8110

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = "9110";
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glgenid.values: */

        /* no check */ ;
```

# Glgets_fw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glgets_fw | FR | DMhex32 |

### 1.1 Glgets_fw

Global Office Parameter Glgets_fw

### 1.2 Description

This global is used to activate the Government Emergency Telecommunications System (GETS) feature processing. Glgets_fw has the following meaning: if 0, GETS processing is off; if 1, GETS is processing on and all calls become eligible for GETS treatment; if > 1, GETS processing is in the test mode. When Glgets_fw is greater than 1, the value is cast to the domain DMGPORT which is the port number and the module number (SM) of a test trunk for the GETS feature. Only calls on this test trunk are eligible for GETS treatment. Note ODA only supports the 0 and 1 values. RC supports the 0 and 1 values plus the values for test trunks specification.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* no check */
```

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# Glgets_rec

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glgets_rec | FP | DMdn |

### 1.1 Glgets_rec

Global Office Parameter Glgets_rec

### 1.2 Description

This parameter is used as the preselect (default) directory number for Gets calls requesting automated processing. The value for this parameter is a 10 digit [0-9] number (not restricted to directory number format) or 0 if no external conferencing or ANI digits for feature group D signalling are used. Since this is a DMdn, both fields of it must be set. The array dn of this DMdn should be set to the desired digits, while the digcnt field of the DMdn should be set to the number of digits in the dn field. The digcnt should be 10 for a 10 digit number or 0 for no number.

***Type:*** DBDN_PAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** {0,""}

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ODA: For new offices, this global should be set to "10" for the digcnt, and "7106274387" for the dn portion on SMs where it is appropriate.

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:***

```
default.digcnt = 0;

default.dn = "";
```

***Distribution Rules:***

```
/* Though this global parameter will be treated as group

* partitioned, since FG is not a valid distribution type

* for global parameters, FP will be used. FP global

* parameters exist on all SMs, thus the following

* distribution rules:
```

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```
*

for pcr in sm_all

pcrlist[pcr] = true;
```

***Import:***

```
"PLgpd_defs.R"
```

***Checks:***

```
/* RULE about Glgets_rec.values: */

let pcrlist = get_gpd_pcrlist (GPD_OSPS,4);

if (current_pcr is_in sm_all) then
begin
        if (pcrlist[current_pcr] == true) then
        begin
                Glgets_rec.digcnt is_in {0,10};
                if (Glgets_rec.digcnt == 0) then
                        Glgets_rec.dn ~== "\0";
                else
                        Glgets_rec.dn ~== "[0-9]{10}";
        end
        else
                Glgets_rec.digcnt == 0;

end
```

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# Glgetsrtg

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glgetsrtg | FP | DMdn |

### 1.1 Glgetsrtg

Global Office Parameter Glgetsrtg

### 1.2 Description

This parameter is used as the preselect (default) directory number for operator handling of calls requesting GETS service. The value for this parameter is a 10 digit [0-9] number (not restricted to directory number format) or 0 if no external conferencing or ANI digits for feature group D signalling are used. Since this is a DMdn, both fields of it must be set. The array dn of this DMdn should be set to the desired digits, while the digcnt field of the DMdn should be set to the number of digits in the dn field. The digcnt should be 10 for a 10 digit number or 0 for no number.

***Type:*** DBDN_PAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** {0,""}

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ODA: For new offices, this global should be set to "10" for the digcnt, and "7106274387" for the dn portion on SMs where it is appropriate.

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:***

```
default.digcnt = 0;

default.dn = "";
```

***Distribution Rules:***

```
/* Though this global parameter will be treated as group

* partitioned, since FG is not a valid distribution type

* for global parameters, FP will be used. FP global

* parameters exist on all SMs, thus the following

* distribution rules:
```

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```
*

for pcr in sm_all

pcrlist[pcr] = true;
```

***Import:***

```
"PLgpd_defs.R"
```

***Checks:***

```
/* RULE about Glgetsrtg.values: */

let pcrlist = get_gpd_pcrlist (GPD_OSPS,4);

if (current_pcr is_in sm_all) then
begin
        if (pcrlist[current_pcr] == true) then
        begin
                Glgetsrtg.digcnt is_in {0,10};
                if (Glgetsrtg.digcnt == 0) then
                        Glgetsrtg.dn ~== "\0";
                else
                        Glgetsrtg.dn ~== "[0-9]{10}";
        end
        else
                Glgetsrtg.digcnt == 0;

end
```

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# Glggaptime

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glggaptime | FR | DMushort |

### 1.1 Glggaptime

The maximum gap duration for GDSF

### 1.2 Description

This parameter defines the duration that a power level was below a variable threshold when the tone is deemed stopped for GDSF. This parameter is measured in units of 5 milliseconds. The default value of 5 means 25 milliseconds.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** ---

***SM Initial Value:*** 2

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global office parameter is not supported by RC but ODA populates it from the MDD files. It is defined in the MDD file PARAMETER. ODA will use the PARAMETER file to assign the correct value to the above parameter.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 5;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
if ( current_pcr is_in sm_all ) then
begin
        /* range check */
        Glggaptime is_in {1 thru 40};

end
```

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# Glglobalsm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glglobalsm | FP | DMmodule |

### 1.1 Glglobalsm

Global Office Parameter Glglobalsm

### 1.2 Description:

This parameter is indicates if a processor contains the direct interface with common channel signaling PSU transport hardware.

If Glglobalsm is not equal to 0, then the given processor is know as a Global SM.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Certain transactions against Glglobalsm must be allowed or denied.

Transaction: Change Glglobalsm from zero to x.

Cross checks during this transaction must verify that Gllds_opt is not the null value, Glofftype is not the null value, and that Gloffpc is not greater than 16383 or 0x3fff. If those requirements are satisfied, then the SM labeled 'x' must not be an RSM if Global Office Parameter Glc7_rsm is set to DBNO. The relation MODATT can be used to find if SM 'x' is an RSM, and if the attribute 'imtype' for 'x' is set to SM5RSM then this transaction must be aborted. Neither SS7 MTP nor SS7 PSU signaled voice trunks can be assigned to an RSM, if Glc7_rsm is set to DBNO.

If the above requirements are satisfied, then the SM labeled 'x' must contain an CCS PH perf image. The next check involves verifying that SM 'x' is equipped with a PSU. If at least one tuple exists in the relation RLpsiupidb in SM 'x' then Glglobalsm can be set in SM x. 'RLindx' must be initialized with all SS7 related keys and tuples with max_idx values set to zero.

Transaction: Change Glglobalsm from x to 0

This transaction request simply completes the SS7 degrowth procedure. Before Glglobalsm can be set to zero a couple of cross checks must be made against relations in the current global SM.

First, all SS7 tuples in the relation RLINDX must have index values set to zero. If not stop this request. Second, the relation RLLS_GRP should have no tuples indicating that all link sets have been removed. If not, stop this request.

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When the above SS7 checks succeed, then remove all tuples in the relation RLINDX in SM x, remove the tuple in the RLOFF_PAR relation in SM x and remove all tuples from the RLC7L3TMRS relation in SM x.

Also, there must be no tuple in RLgsm_net where (RLgsm_net.gsm == Glglobalsm) and (RLgsm_net.sccp_type == CC_CCITT).

Finally set Glglobalsm to zero on the specified SM.

***Retrofit Rules:*** On retrofit to 5E11, Glglobalsm will only be valid on the SMs. Therefore, Glglobalsm should always equal 0 on the AM/CMP.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for i in {1 thru 192}
        begin
                if (Glintl7sm on sm(i) != 0) then
                        pcrlist[Glintl7sm on sm(i)] = true;
                if (Glnatl7sm on sm(i) != 0) then
                        pcrlist[Glnatl7sm on sm(i)] = true;
        end
```

***Checks:***

```
/* RULE about Glglobalsm.values: */

BCglobalsm: if (current_pcr is_in sm_all) then
begin
        Glglobalsm is_in {0 thru 192};

        if ((Glintl7sm == 0) && (Glnatl7sm == 0)) then
        begin
                /* This is not an SS7 Global SM. */
                Glglobalsm == 0;
        end

        if (Glintl7sm != 0) then
        begin
                /* This must be an INTL SS7 Global SM. */
                Glglobalsm == Glintl7sm;
        end

        if (Glnatl7sm != 0) then
        begin
                /* This must be a NATL SS7 Global SM. */
                Glglobalsm == Glnatl7sm;
        end

end
```

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# Glgpax_cnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glgpax_cnt | FP | DMushort |

### 1.1 Fullname:

GPAXDB Tuple Count

### 1.2 Description:

This global parameter keeps count of the number of dynamic RLGPAXDB tuples initialized on the SM.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter is not supported by RC.

***Retrofit Rules:*** This parameter is recalculated over retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
chk_apperm.R
"env.R
```

***Checks:***
```
/* RULE about Glgpax_cnt.values: */

if (current_pcr is_in sm_all) then
begin
        Glgpax_cnt is_in { 0 thru 29132 };
end

if (runucv) then
begin
```

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```
if (current_pcr is_in sm_all) then
begin
if (c_aperm(PVMSKWNC,CONFIGMAX) == true) then
begin
        Glgpax_cnt is_in { 0 thru 4096 };

        Glgpax_cnt == ( 4 * Glwprt_cnt);
end
else
begin
        Glgpax_cnt is_in { 0 thru 29132 };


        if (Glapxsm == DBYES) then
        begin
                /* Here add 9 before divide by 10
                   is to get a rounded up value. */
                Glgpax_cnt == 100 + (12 * Gltrk_cnt + 9)/10;
        end
        else
        begin
                Glgpax_cnt == 0;
        end
end

end
end
```

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# Glgpftimer

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glgpftimer | FP | DMushort |

### 1.1 Glgpftimer

Global Office Parameter Glgpftimer

### 1.2 Description:

This parameter contains a count of the number of RLgpftimer tuples that have been allocated on this module. These are used for general purpose timing on the SM. This count will be recalculated on all SM initialization.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** No impact to RC, ODA needs to default to 0.

***Retrofit Rules:*** This parameter should be recalculated across generic retrofits. ODA default to 0 across generic reftrofits.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

        /* RULE about Glgpftimer.values: */

        /* Glgpftimer is_in {0 thru (DBQNGPFTIMER - DBSFGPFTIMER)}; */
        Glgpftimer is_in {0 thru (21810 - 0)};

end
```

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# Glgrsrsnd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glgrsrsnd | FR | DMlong |

### 1.1 Glgrsrsnd

Glgrsrsnd - ISUP Group Reset Message response timer

### 1.2 Description

This parameter is used as the ISUP group reset (GRS) Message response timer value. This timer is initiated when an ISUP GRS message is sent. The timer is canceled when a GRA message is received in acknowledgement for all of the members specified in the GRS message.

This timer is entered in seconds but stored internally in milliseconds. This timer is also referred to as timer T22.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10000

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Valid values are 4000 to 15000 in steps of 1000 (on view/form 4 to 15 seconds in steps of 1 second). The default is 10000 (10 seconds).

***Retrofit Rules:*** The value of this global office parameter should be preserved across a retrofit. When starting a new office with the 5E9 release, the parameter should be set to its default value.

***Default Rules:***
```
default = 10000;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glgrsrsnd.values: */

Glgrsrsnd is_in {4000 thru 15000 by 1000};
```

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# Glgslkcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glgslkcnt | FP | DMushort |

### 1.1 Glgslkcnt

Global Office Parameter Glgslkcnt

### 1.2 Description

This parameter will store the value of the number of RLgslk tuples that are currently inserted on a SM. This value is set by SM initialization code and administered via PC trigger functions to represent the total number of RLgslk tuples that have been inserted.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ODA and RC have no impact on this parameter.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* FP */

;
```

***Checks:***

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# Glgslknum

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glgslknum | FP | DMushort |

### 1.1 Glgslknum

Number of gslk tuples populated in SM.

### 1.2 Description

The Glgslknum parameter is used to store the number of tuples needed for the dynamic relation RLgslk. This value is set by SM initialization code and administered via PC trigger functions to represent the total number of RLgslk tuples that have been inserted. One Rlgslk tuple is required for each tuple in RLgsdb and RLai_gsdb.

Since GSDBs and AI_GSDBs represent groups of eight lines, each group of eight lines gets one GSLK.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ODA and RC have no impact on this parameter.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* FP */

;
```

***Checks:***

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# Glgsmtype

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glgsmtype | FP | DMgsmtype |

### 1.1 Fullname:

Global Office Parameter Glgsmtype

### 1.2 Description:

This global parameter specifies the type of SM in terms of the type of CCS messaging supported on the SM. Glgsmtype has on of the following values:

1. CCNOTAGSM - This SM is not a global SM.
2. CCISLANDGSM - The SM is a GSM that supports CCS messaging for trunks and TCAP services on the SM but has not been provisioned to support such messaging for trunks and TCAP services on other non-global SM's.
3. CCHOSTGSM - The SM is a GSM which supports sending and receiving of CCS messages for non-global SM's.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** CCNOTAGSM

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** When an SM is provisioned as a GSM via Recent Change view 16.1 or ODA form CCGSM then the value of Glgsmtype should be updated to CCISLANDGSM. If an GSM is deleted via Recent Change view 16.1 or ODA form CCGSM Glgsmtype should be updated to CCNOTAGSM.
If a GSM is provisioned as a Host GSM via Recent Change view 16.16 or ODA form CMTMH, Glgsmtype should be updated to CCHOSTGSM. If a GSM is deleted via Recent Change view 16.16 or ODA form CMTMH so that it no longer serves as a host for any non-global SM's then Glgsmtype should be updated to CCISLANDGSM.

***Retrofit Rules:*** The value should be preserved over the retrofit.

***Default Rules:***

```
default = CCNOTAGSM;
```

***Distribution Rules:***

```
        for modatt in RLmodatt
        begin
             pcrlist[modatt.module] = true;
        end
```

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***Checks:***

```
if (current_pcr is_in sm_all) then
begin
        let x = find == 1 gsm_opc in RLgsm_opc
                where (gsm_opc.gsm == current_pcr);

        if (x == false) then
        begin
             Glgsmtype == CCNOTAGSM;
        end
        else
        begin
             let y = count {cmtpath in RLcmtpath
                        where ((cmtpath.gsm == current_pcr) &&
                                (cmtpath.ngsm != current_pcr))};

             if (y > 0) then
             begin
                    Glgsmtype == CCHOSTGSM;
             end
             else
             begin
                    Glgsmtype == CCISLANDGSM;
             end
        end
end
```

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# Glgspiketm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glgspiketm | FR | DMushort |

### 1.1 Glgspiketm

The maximum (noise) duration to ignore for GDSF.

### 1.2 Description

This parameter defines the duration that a power level has to maintain above a variable threshold for a tone to be deemed started for GDSF. This parameter is measured in units of 5 milliseconds. The default value of 5 means 25 milliseconds.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** ---

***SM Initial Value:*** 2

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global office parameter is not supported by RC but ODA populates it from the MDD files. It is defined in the MDD file PARAMETER. ODA will use the PARAMETER file to assign the correct value to the above parameter.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 5;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
        /* range check */

        Glgspiketm is_in { 1 thru 40 };
```

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# Glgtt_ent

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glgtt_ent | FP | DMunl18 |

### 1.1 Glgtt_ent

SCCP Count of Maximum Global Title Translation Entries

### 1.2 Description

This parameter is referenced by SCCP. It is populated in SM's indicated by Glgsm_net when Glgsm_net is not empty. Glgtt_ent indicates the maximum number of entries allowed in the RLgtt_dpc relation per GSM.

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** ---

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for gsm_net in RLgsm_net

begin

        pcrlist[gsm_net.gsm] = true;

end
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
     /* RULE about Glgtt_ent.values: */

     Glgtt_ent is_in {0 thru 251000};

     /* RULE about Glgtt_ent: */
```

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```
     Glgtt_ent == sum RLfix_dig.max_ent;

end
```

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# Glgursnd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glgursnd | LRFR | DMshort |

### 1.1 Glgursnd

Global Office Parameter Glgursnd

### 1.2 Description

Glgursnd is the time interval to wait before resending a CCS maintenance/hardware group unblocking message (TUP/ISUP protocols) when failing to receive the appropriate acknowledgement in response to the initial CCS maintenance/hardware group unblocking message sent. This parameter is used in the AM only. ODA should populate with default value for new office but preserve value from data base during retrofits and growths. This parameter is used only when the office contains CCS7 trunks as shown when one or more tuples of RLrt_trkg have in_sigtype or out_sigtype set to DBISUP7 or DBTUP7.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 10

***CMP Initial Value:*** 10

***RC/ODA Rules:*** Insure that the SM value is the same as the AM value.

***Retrofit Rules:*** The original value in the AM should be populated in the SMs also.

***Default Rules:***

```
default = 10;
```

***Distribution Rules:*** none

***Checks:***

```
/* RULE about Glgursnd.values: */

Glgursnd is_in {4 thru 15};
```

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## 3.19 Glh

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# Glhbsctm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glhbsctm | FR | DMuns4 |

### 1.1 Fullname:

Global Office Parameter Glhbsctm

### 1.2 Description:

This parameter indicates the maximum length of time in minutes that a HOBIS or HOBIC message should be held in the buffer before a credit record is made and further attempt to send the record are discontinued.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 10;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glhbsctm.values: */

Glhbsctm is_in {1 thru 10};
```

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# Glhbsdls

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glhbsdls | FP | DMuns4 |

### 1.1 Fullname:

Global Office Parameter Glhbsdls

### 1.2 Description:

DESCRIPTION: This parameter specifies the quantity of data link Digital Subscriber Lines connected to the Hotel Billing Information System (HOBIS).

This parameter is meaningless if the OSPS is served by a Hotel Billing Information Center (HOBIC). This parameter is populated by ODA and RC but does not appear on any view. Each SM's parameter is set to the number of RLDLDSL tuples in that SM with the servclass attribute set to FC_HOBIS.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glhbsdls.values: */

if (current_pcr is_in sm_all) then
begin
       Glhbsdls is_in {0 thru 8};
end
```

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# Glhihld

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glhihld | FR | DMshort |

### 1.1 Fullname:

Global Office Parameter Glhihld

### 1.2 Description:

This parameter is used to denote the maximum amount of time a dialable Hold call can be placed on hold. If the call is not retrieved during this period, the user will receive ring-back treatment. Unit of values in seconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 180

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 180;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glhihld.values: */

Glhihld is_in {30 thru 32767};
```

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# Glhim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glhim | FP | DMcount |

### 1.1 Fullname:

Global Office Parameter Glhim

### 1.2 Description:

This global parameter contains the number of RSMs this module hosts. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glhim.values: */

        /* no check */ ;
```

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# Glhirng

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glhirng | FR | DMshort |

### 1.1 Fullname:

Global Office Parameter Glhirng

### 1.2 Description:

This parameter is used to controll the maximum amount of time a Home Intercom Single Line Variety call may ring before it is answered. If the call is not answered during this period, the call will be canceled. Unit of values in seconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 180

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 180;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glhirng.values: */

Glhirng is_in {30 thru 300};
```

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# Glhitlk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glhitlk | FR | DMshort |

### 1.1 Fullname:

Global Office Parameter Glhitlk

### 1.2 Description:

This parameter is used to control the maximum amount of time a subscriber may continue talking on a Home Intercom call. If Home Intercom call exceeds the time limit, the call is cancelled and the off-hook extensions will hear dial tone Unit of values in minutes.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 10;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glhitlk.values: */

Glhitlk is_in {10 thru 14440};
```

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# Glhmmisc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glhmmisc | LR | DMbool |

### 1.1 Fullname:

Global Office Parameter Glhmmisc

### 1.2 Description:

Glhmmisc shows whether the office is equipped with the MMSU Miscellaneous MSU Alarms option.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glhmmisc.values: */
Glhmmisc is_in {DBNO, DBYES};
```

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# Glhmsum

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glhmsum | LR | DMshort |

### 1.1 Fullname:

Global Office Parameter Glhmsum

### 1.2 Description:

Glhmsum is the interval between automatically generated alarm summary reports in number of hours. The range of values is 0-24 hours decimal. A value of 0 means no summary reports will be generated.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 24

***CMP Initial Value:*** 24

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glhmsum.values: */

Glhmsum is_in {0 thru 24};
```

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# Glhmtsum

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glhmtsum | LR | DMshort |

### 1.1 Fullname:

Global Office Parameter Glhmtsum

### 1.2 Description:

The parameter Glhmtsum is the number of minutes past midnight for the first automatic alarm summary report. Unit of values in minutes. The default is 300 (5 a.m.)

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 300

***CMP Initial Value:*** 300

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 300;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glhmtsum.values: */

Glhmtsum is_in {0 thru 1439};
```

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# Glhobisc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glhobisc | FR | DMhobisc |

### 1.1 Fullname:

Global Office Parameter Glhobisc

### 1.2 Description:

Specifies whether the office is connected to a HOBIS or a HOBIC (Hotel billing information system or center).

This is set to NULL if the OSPS is not equipped with links to neither HOBIS or HOBIC.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** OAH_NULL

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = OAH_NULL;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glhobisc.values: */

        /* no check */ ;
```

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# Glholiday

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glholiday | FR | DMshort |

### 1.1 Fullname:

Global Office Parameter Glholiday

### 1.2 Description:

Holiday rates instead of normal weekday rates. The value will contain a number from 1 to 366 representing a day of the year which requires charging hotel/motel customers at holiday rates instead of normal weekday rates.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 1;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glholiday.values: */

Glholiday is_in {1 thru 366};
```

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# Glhomenpa

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glhomenpa | FR | DMchr8 |

### 1.1 Fullname:

Global Office Parameter Glhomenpa

### 1.2 Description:

This parameter contains the home NPA of the toll office and is to be used for toll Originating Screening Office (OSO)/INward Wide Area Telephone Service (INWATS) offices. Must be populated for a OSO/INWATS office and must contain the 3-digit home NPA of the toll office. Digit ranges are as follows: [2-9] [0-9] [0-9].

***Type:*** DB8STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** "\0"

***AM Initial Value:*** "NULL"

***CMP Initial Value:*** "NULL"

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glhomenpa.values: */

        /* no check */ ;
```

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# Glhriwtof

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glhriwtof | LRFR | DMbool |

### 1.1 Fullname:

Global Office Parameter Glhriwtof

### 1.2 Description:

This global office parameter indicates whether or not INWATS Overflow AMA Records should be produced hourly. If it is set to DBYES, such a record will be produced every hour on the hour with cumulative overflow counts, with these counts being reset daily. This is the normal case for a TOLL office. If the parameter is set to DBNO, such hourly records are not produced, however, the normal daily INWATS Overflow Record will still be produced for every 24 hour period. This is the normal case for a non-Toll office.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** This parameter is not changeable by recent change.

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glhriwtof.values: */

Glhriwtof is_in {DBNO, DBYES};
```

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# Glhrly

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glhrly | LR | DMbool |

### 1.1 Fullname:

Global Office Parameter Glhrly

### 1.2 Description:

This parameter controls on Division of Revenue. This parameter determines if the Hourly Traffic Separations Report should be created, provided that Traffic Separations is active. (If Traffic Separations is inactive, then this parameter is ignored by the system.) DBYES means have the report created, DBNO means do not have the report created.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glhrly.values: */

Glhrly is_in {DBNO, DBYES};
```

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# Glhss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glhss | FP | DMbool |

### 1.1 Fullname:

Global Office Parameter Glhss

### 1.2 Description:

POPULATION: SM PARTITIONED DESCRIPTION:

This parameter specifies whether an SM has any trunk groups or multi-line hunt groups that are assigned AND activated with the 100 Second Scan (HSS) feature. This then this parameter in that SM must be set to DBYES. Otherwise, it must be set to DBNO. SUPPORTED BY: ODBE ONLY

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glhss.values: */

if (current_pcr is_in sm_all) then
begin
        Glhss is_in {DBNO, DBYES};
end
```

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# Glhwhigh

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glhwhigh | LR | DMuchar |

### 1.1 Fullname:

Global Office Parameter Glhwhigh

### 1.2 Description:

This parameter is used by Terminal Maintenance to be the high boundary condition to display the HIGH condition for the number of lines in the High and Wet condition. Used by Export.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 30

***AM Initial Value:*** 30

***CMP Initial Value:*** 30

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glhwhigh.values: */

Glhwhigh is_in {1 thru 255};
```

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# Glhwmedm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glhwmedm | LR | DMuchar |

### 1.1 Fullname:

Global Office Parameter Glhwmedm

### 1.2 Description:

This parameter is used by Terminal Maintenance (TM) to be the Middle condition to display the MEDIUM condition for the number of lines in the High and Wet condition. Used by Export.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 11

***AM Initial Value:*** 11

***CMP Initial Value:*** 11

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glhwmedm.values: */

Glhwmedm is_in {1 thru 255};
```

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## 3.20 Gli

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# Gli7rstopt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gli7rstopt | FP | DMccrstopt |

### 1.1 Gli7rstopt

Global Office Parameter Gli7rstopt

### 1.2 Description

Gli7rstopt contains the information needed for the route set test option in International CCITT7. RST is used to query an APC to test the accessibility of a destination that it could serve. This information is across all SMs, but is not in the AM.

CCRSTOFF: - Neither initialization nor change back RST options are being used.

CCRSTINIT: - Initialization, but not change back, RST options are being used.

CCRSTCB: - Change back, but not initialization, options are being used.

CCRSTALL: - Both initialization and change back RST options are being used.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** CCRSTOFF

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** If CCITT7 is not being used, set the parameter to CCRSTOFF. The parameter is not recent changeable.

***Retrofit Rules:*** None.

***Default Rules:***

```
default = CCRSTALL;
```

***Distribution Rules:***

```
for i in {1 thru 192}
begin
         if (Glintl7sm != 0) then
                  pcrlist[Glintl7sm] = true;
end
```

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***Checks:***

```
if (current_pcr is_in sm_all) then
begin
     /* Gli7rstopt is only valid on an International CCITT7 SM. */
     if (Glintl7sm != current_pcr) then
     begin
          Gli7rstopt == CCRSTOFF;
     end
end
```

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# Gliacf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliacf | LR | DMuns7 |

### 1.1 Gliacf

ACF Lockout Interval

### 1.2 Description

This global parameter is known as the ACF lockout interval. Gliacf specifies the lockout interval (in minutes) during which all calls for a particular calling number and PIN pair will be blocked and remain on the ACF Fraud List after attempted fraud has been detected.

This parameter may only be reviewed and updated at the OSPS OAP security terminal.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** 20

***CMP Initial Value:*** 20

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** Because this parameter is only accessible from the OSPS OAP security terminal, ODA does not have a corresponding form for data entry. Thus, ODA will support this parameter by carrying forward the current value in the next generic.

***Default Rules:***
```
default = 20;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Gliacf.values: */
Gliacf is_in {5 thru 120};
```

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# Gliacrd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliacrd | FP | DMshort |

### 1.1 Gliacrd

Incremental value for number of OSPS Auxiliary Call Records

### 1.2 Description

The Gliacrd global parameter is used to increase the number of RLacrecord tuples allocated in the SM. Its value is established via ODA or RC/V and is maintained over retrofits.

The initial value must be 0.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** CRalo_acr

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required. This parameter is populated on loaded SMs only; on other SMs it is always zero.

RC ONLY: This value cannot be changed by more than 50 during an update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
```

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```
/* RULE about Gliacrd */
if ((count({lpconf in RLlpconfig
        where(lpconf.smconfig == Glconfigname &&
                lpconf.package == GLOPSMOT)}) > 0) ||
   (count({lpconf in RLlpconfig
        where(lpconf.smconfig == Glconfigname &&
                lpconf.package == GLOPSMDAAC)}) > 0)) then
begin
        Gliacrd is_in {0 thru 8975};
end
else
begin
        Gliacrd == 0;
end
end
```

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# Gliadb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliadb | FP | DMushort |

### 1.1 Gliadb

Incremental value for number of Analog Data Block tuples

### 1.2 Description

The Gliadb global parameter contains an SM's incremental rlADB tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** FCiadbtr

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gliadb.values */
if (Gliadb != 0) then
```

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```
begin
        find > 0 lpconf in RLlpconfig
        where ((lpconf.smconfig == Glconfigname) &&
              (lpconf.package is_in {GLASHDN, GLISDNBRCS}))
        when_found
        begin
/*              Gliadb is_in {1 thru (DBQNADB - DBSFADB)}; */
                Gliadb is_in {1 thru (16383 - 0)};
        end
end
end
```

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# Gliamcrmpr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliamcrmpr | LRFR | DMuns2 |

### 1.1 Fullname:

Global Office Parameter Gliamcrmpr - Initial Address Message (IAM)/Circuit Reservation Message (CRM) Priority

### 1.2 Description:

This per office parameter is used as an indicator for SS7 ISUP to mark the priority for IAMs and CRMs messages. When set to 1, all outgoing IAMs and CRMs (regardless of type of call) are set to the standard priority of 1. If set to 0 (zero), all GETS and MLPP non-routine IAMs and CRMs have outgoing priority = 1; all other types of calls (including routine MLPP calls) have their priority LOWERED to 0. This in effect RAISES the relative priority of GETS and MLPP call's IAM and CRMs.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1

***AM Initial Value:*** 1

***CMP Initial Value:*** 1

***RC/ODA Rules:*** This parameter is supported by RC and ODA. The value of this parameter is populated by ODA to its default value of 1.

***Retrofit Rules:*** This parameter should be preserved over a retrofit.

***Default Rules:***

```
default = 1;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
        /* No checks */
```

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# Gliapb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliapb | FP | DMushort |

### 1.1 Gliapb

Incremental value for number of Associated Process Block tuples

### 1.2 Description

The Gliapb global parameter contains an SM's incremental rlAPB tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** FCiapbtr

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gliapb.values */
```

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```
/*      Gliapb is_in {0 thru (DBQNAPB - DBSFAPB)}; */
        Gliapb is_in {0 thru (4095 - 2)};
end

/* RULE about Gliapb:   */
if (current_pcr is_in { 1 thru 192 }) then
begin
        find == 1 modatt in RLmodatt
        where (modatt.module == current_pcr)
        when_found
        begin
                        if (Glnraf == 0 && modatt.osps_sm == DBNO) then
                        begin
                                Gliapb == 0;
                        end
        end
end
```

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# Gliapbuf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliapbuf | FP | DMushort |

### 1.1 Gliapbuf

Incremental value for number of RLapbuf tuples

### 1.2 Description

The Gliapbuf global parameter contains an SM's incremental RLapbuf tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list. This global parameter is used for Software Resource Engineering.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An SRE related RC view and ODA form per-SM field are required.

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* Rules about Gliapbuf.values: */
if (Gliapbuf != 0) then
begin
        find == 1 lpconf in RLlpconfig
        where ((lpconf.smconfig == Glconfigname) &&
               (lpconf.package == GLAPBASE))
        when_found
        begin
```

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```
                Glapsmnum != 0;

/*              Gliapbuf is_in { 1 thru (DBQNAPBUF - DBSFAPBUF) }; */
                Gliapbuf is_in { 1 thru (1023 - 0) };
        end
end
end
```

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# Gliapdu

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliapdu | FP | DMshort |

### 1.1 Gliapdu

Incremental value for the number of Application Protocol Data Unit (rlAPDU) tuples

### 1.2 Description

The Gliapdu global parameter contains an SM's incremental rlAPDU tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** TMi_trig

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gliapdu.values */
if (Gliapdu != 0) then
```

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```
begin
        find == 1 lpconf in RLlpconfig
        where ((lpconf.smconfig == Glconfigname) &&
               ((lpconf.package == GLID303APP) ||
                (lpconf.package == GLISDNBASE)))
        when_found
        begin
/*              Gliapdu is_in {1 thru (DBQNAPDU - DBSFAPDU)}; */
                Gliapdu is_in {1 thru (511 - 0)};
        end
end
end
```

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# Gliasp_tp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliasp_tp | FP | DMushort |

### 1.1 Fullname:

Incremental value for number of rlASP_TP tuples

### 1.2 Description:

This global parameter contains an SM's incremental tuple count for rlASP_TP It is established by ODA and is changeable via recent change.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** FCtriasptp,

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global parameter is fully supported by RC via view 8.40. The initial value of this parameter is established by ODA. If SFID 126 is not active, Gliasp_tp must equal 0.
RC ONLY:
This value cannot be changed by more than 50 during each update.

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

        /* RULE about Gliasp_tp values: */
        if (Gliasp_tp != 0) then
        begin
              /* The application must be set to CCAINR01, which
```

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```
                * indicates the dynamic ASP relations have been
                * initialized because AINR01 is active, before
                * tuples can be added.
                */
                let AINR01COUNT = count { ds_app in RLds_app
                       where (ds_app.ds_type == CCAINR01) };

              AINR01COUNT == 1;

              Glpvn_ofc == DBPVN_SSP;

        /*    Gliasp_tp is_in { 1 thru (DBQNASP_TP - DBSFASP_TP) }; */
              Gliasp_tp is_in { 1 thru (8193 - 0) };
        end

end
```

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# Gliaspbase

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliaspbase | FP | DMushort |

### 1.1 Gliaspbase

Incremental value for number of Advanced Services Platform tuples

### 1.2 Description

The Gliaspbase global parameter contains an SM's incremental tuple count for rlNS_BILL, rlNS_IDX and rlNSDB. It is established by ODA and is changeable via recent change. The switch personnel can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** FCtriaspbase

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
chk_apperm.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
```

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```
/* RULE about Gliaspbase.values */

if (Gliaspbase != 0) then
begin
        /* Direct signaling does not apply to wireless so
         * don't do this check */
        if (c_aperm(PVMSKWNC, CONFIGMAX) == false ) then
        /* Non-WNC office */
        begin

           /* The application must be set to CCPVN or CCAINR0, which
              indicates the dynamic ASP relations have been initialized,
              before tuples can be added
            */

                let PVNCOUNT = count { ds_app in RLds_app
                 where (ds_app.ds_type == CCPVN)};

                let AINR0COUNT = count { ds_app in RLds_app
                 where (ds_app.ds_type == CCAINR01)};

                PVNCOUNT == 1 || AINR0COUNT == 1;
        end

        Glpvn_ofc == DBPVN_SSP || Glssp == DBYES;

/*      Gliaspbase is_in {1 thru (DBQNNS_BIL - DBSFNS_BIL)}; */
        Gliaspbase is_in {1 thru (32000 - 0)};

end
end
```

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# Gliaspdisp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliaspdisp | FP | DMushort |

### 1.1 Fullname:

Incremental value for number of rlASPDISP tuples

### 1.2 Description:

This global parameter records the incremental count of rlASPDISP tuples on an SM. It is established by ODA and is changeable via recent change. The switch personnel can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** FCtridisp,

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global parameter is fully supported by RC via view 8.40. If the SFID 507 is not active, Gliaspdisp must equal 0. The initial value of this parameter is established by ODA. RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gliaspdisp.values */

      if (Gliaspdisp != 0) then
      begin
```

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```
          Glpvn_ofc == DBPVN_SSP;

          /*
           * The direct signaling application must be populated
           * with AINROD1 when the aspdisp incremental
           * parameter is incremented.
           */
           find == 1 ds_app in RLds_app
           where (ds_app.ds_type == CCAINR01);

          /* Gliaspdisp is_in {0 thru (DBQNASPDISP - DBSFASPDISP)} */
           Gliaspdisp is_in {0 thru (1024 - 0)};
      end
end
```

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# Gliasptran

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliasptran | FP | DMushort |

### 1.1 Fullname:

Incremental value for number of rlASPTRANS tuples

### 1.2 Description:

This global parameter records the incremental count of rlASPTRANS tuples on an SM. It is established by ODA and is changeable via recent change. The switch personnel can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** FCtritrans,

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global parameter is fully supported by RC via view 8.40. The initial value of this parameter is established by ODA. If SFID 507 is not active, Gliasptran must equal 0. RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gliasptran.values */
      if (Gliasptran != 0) then
      begin
```

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```
            Glpvn_ofc == DBPVN_SSP;

            /*
             * The direct signaling application must be populated
             * with AINROD1 when the asptran incremental parameter
             * is incremented.
             */
            find == 1 ds_app in RLds_app
            where (ds_app.ds_type == CCAINR01);

            /* Gliasptran is_in {0 thru
             *                   (DBQNASPTRANS - DBSFASPTRANS)} */
            Gliasptran is_in {0 thru (4096 - 0)};
      end
end
```

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# Gliatcall

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliatcall | FP | DMushort |

### 1.1 Gliatcall

Incremental value for number of RLatcall tuples

### 1.2 Description

The Gliatcall global parameter contains an SM's incremental RLatcall tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list. This global parameter is used for Software Resource Engineering.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An SRE related RC view and ODA form per-SM field are required.

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* Rules about Gliatcall.values: */
if (Gliatcall != 0) then
begin
        find == 1 lpconf in RLlpconfig
        where ((lpconf.smconfig == Glconfigname) &&
               (lpconf.package == GLISDNBRCS))
        when_found
        begin
```

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```
                Gledsaccnt + Glmssaccnt != 0;
/*              Gliatcall is_in { 1 thru (DBQNATCALL - DBSFATCALL) }; */
                Gliatcall is_in { 1 thru (256 - 0) };
        end
end
end
```

# Glibrcsdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glibrcsdb | FP | DMushort |

### 1.1 Glibrcsdb

Incremental value for number of BRCS data block tuples

### 1.2 Description

The Glibrcsdb global parameter contains an SM's incremental rlBRCSDB tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** FCibrcstr

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glibrcsdb.values */
if (Glibrcsdb != 0) then
```

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```
begin
        find == 1 lpconf in RLlpconfig
        where ((lpconf.smconfig == Glconfigname) &&
               (lpconf.package == GLISDNBRCS))
        when_found
        begin
/*              Glibrcsdb is_in {1 thru (DBQNBRCSDB - DBSFBRCSDB)}; */
                Glibrcsdb is_in {1 thru (32000 - 0)};
        end
end
end
```

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# Glibrgdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glibrgdb | FP | DMushort |

### 1.1 Fullname:

Incremental value for the number of Bridging Data Block tuples

### 1.2 Description:

The Glibrgdb global parameter contains an SM's incremental RLBRGDB tuple count. It is established by ODA and is changeable via Recent Change. The switch personnel can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** PCibrgdbtrg,

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** A RC view (v8.40) and ODA form per-SM field is required.
RC ONLY: This value can not be changed by more than 50 during each update. This global parameter needs special support for the Large Terminal Growth (LTG) process. As per requirements ODA is not supporting an equivalent ODA form.
Whenever adding or deleting a population rule for CALEA that has LTG impact, you must contact the ODA Support Group for LTG to modify the CALEA #include file.

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* This check is supported by RC only */

if (current_pcr is_in sm_all) then
begin
```

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```
/* RULE about Glibrgdb.values */

/* Glibrgdb is_in {0 thru (DBQNBRGDB - DBSFBRGDB)}; */
Glibrgdb is_in {0 thru (511 - 0)};


end
```

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# Glibusy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glibusy | FR | DMbool |

### 1.1 Glibus

ISUP Busy Play Announcement Indicator (Glibusy)

### 1.2 Description

A terminating exchange will determine whether the called party interface is busy prior to performing circuit allocation. If the called party interface is busy, the office must either (1) return a 2release message (REL) with a cause of user busy (17), or (2) provide busy tone.

The ISUP busy play announcement indicator (Glibusy) will be checked by the operational software during call failures in which the called party is busy, and the call route consists of ISUP protocol trunks interworked to other signal protocol trunks.

The values of the parameter may be optioned by the customer to one of the values shown below:

DBYES: A busy tone should be provided to the originating exchange.

DBNO: A Release Message should be sent to the originating exchange.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glibusy.values: */
        /* no check */ ;
```

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# Glical_inf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glical_inf | FP | DMshort |

### 1.1 Fullname:

Incremental value for the number of CALEA Information tuples.

### 1.2 Description:

The Glical_inf global parameter contains an SM's incremental RLCAL_INFO tuple count. It is established by ODA and is changeable via Recent Change. The switch personnel can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** FCtrical_inf,

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** A RC view (v8.40) and ODA form per-SM field is required.
RC ONLY: This value can not be changed by more than 50 during each update. This global parameter needs special support for the Large Terminal Growth (LTG) process. As per requirements ODA is not supporting an equivalent ODA form.
Whenever adding or deleting a population rule for CALEA that has LTG impact, you must contact the ODA Support Group for LTG to modify the CALEA #include file.

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
      /* This check is supported by RC only */

      if (current_pcr is_in sm_all) then
      begin
```

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```
    /* RULE about Glical_inf.values */

    /* Glical_inf is_in {0 thru (DBQNCAL_INFO -
                                 DBSFCAL_INFO)}; */
    Glical_inf is_in {0 thru (511 - 0)};

end
```

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# Glicalm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicalm | LR | DMuns7 |

### 1.1 Glicalm

Global Ofice Parameter Glicalm

### 1.2 Description

This global parameter is reserved for future OSPS fast feature development work. It should be initialized to all zeroes.

This spare global does not conform in name to other spares due to the fact that it was returned as a spare in 5e9.2.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 95

***AM Initial Value:*** 95

***CMP Initial Value:*** 95

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glicalm.values: */
       /* no checks */
```

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# Glicbdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicbdb | FP | DMushort |

### 1.1 Glicbdb

Incremental value for number of Call Buildup Data Block tuples

### 1.2 Description

The Glicbdb global parameter contains an SM's incremental rlCBDB tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glicbdb.values */

/*      Glicbdb is_in {0 thru (DBQNCBDB - DBSFCBDB)}; */
        Glicbdb is_in {0 thru (2047 - 0)};
```

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```
end
```

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# Gliccdnr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliccdnr | FP | DMbool |

### 1.1 Gliccdnr

Global Office Parameter Gliccdnr

### 1.2 Description

This is the feature activation parameter for the OSPS International Credit Card Validation - Called Number Geographic Restrictions feature, which allows restrictions to be placed on post telegraph and telephone (PTT) card-billed calls that originate on an AT&T OSPS. Y means the feature is active. N means the feature is not active. Glcas3

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parameters, so FP is specified */
/* here.  The group partitioning should be:               */
/*      RLdb_gpdus.grp_type = GPD_OSPS                    */
/*      RLdb_gpdus.grp_id   = 3                           */
pcrlist = get_gpd_pcrlist (GPD_OSPS,3);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
```

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```
/* RULE about Gliccdnr.values: */

        /* no check */ ;

/* RULE about Gliccdnr: */

/* There must be a check that CAS R3 is activated before this */
/* feature can be activated.                                  */
if (Gliccdnr == DBYES) then
begin
        Glcas3 == DBYES;   /* 9.1 */
end
end
```

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# Gliccsstpd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliccsstpd | FP | DMushort |

### 1.1 Gliccsstpd

Incremental value for number of CCSSeTuP data block tuples

### 1.2 Description

The Gliccsstpd global parameter contains an SM's incremental rlCCSSTPDB tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

This parameter indicates the incremental number of RLccsstpdb tuples that should be added on to the standard allocation amount for this processor. Gliccsstpdb is provisionable by the craft. When Gliccsstpdb is updated, a trigger function will create the added RLccsstpdb tuples and link them to the idle list.

When special features exist in certain processors, more RLccsstpdb tuples may be needed. If this need arises, the value of Gliccsstpdb should be set to a non-zero value that will add onto the standard allocation and provide enough tuples to satisfy the need.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

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```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gliccsstpd.values */
if (Gliccsstpd != 0) then
begin
        Glisuptk_cnt != 0;

/*      Gliccsstpd is_in {1 thru (DBQNCCSSTP - DBSFCCSSTP)}; */
        Gliccsstpd is_in {1 thru (4095 - 0)};
end
end
```

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# Gliccvcdbs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliccvcdbs | FP | DMbool |

### 1.1 Gliccvcdbs

Customer Defined Billing Segment Release 2 International Credit Card Validation feature activation parameter

### 1.2 Description

This global parameter shall be used to activate/deactivate the CDBS ICCV feature. DBYES indicates the feature is activated, OSPS will accept a CDBS code in a foreign administration data base validation, and will record the return code in the AMA billing record. DBNO indicates the feature is not activated.

This feature will not be activated unless the global parameter CASR3 is turned on. Glcas3

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parameters, so FP is specified */
/* here. The group partitioning should be:                */
/*      RLdb_gpdus.grp_type = GPD_OSPS                    */
/*      RLdb_gpdus.grp_id = 3                             */
pcrlist = get_gpd_pcrlist (GPD_OSPS,3);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
```

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```
/* RULE about Gliccvcdbs.values: */
        /* no check */ ;

/* RULE about Gliccvcdbs: */

/* There shall be a crosscheck to ensure that Glcas3 is DBYES */
/*  before this feature is activated                          */
if (Gliccvcdbs == DBYES) then
begin
        Glcas3 == DBYES;
end
end
```

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# Gliccvcs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliccvcs | FP | DMbool |

### 1.1 Gliccvcs

International Credit Card Validation Call Screening feature activation parameter

### 1.2 Description

This global parameter is used to activate/deactivate the international credit card validation (ICCV) Call Screening feature. DBYES indicates the feature is activated, DBNO indicates the feature is not activated.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** ***NOTE:*** This global must be DBNO if the corresponding secured feature bit (SFID362) is not turned on.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* This global is group partitioned with the grp_type = GPD_OSPS
   and grpid = 4.
*/
pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
/* RULE about Gliccvcs.values: */
        /* no check */ ;

/* RULE about Gliccvcs: */
        /* no check */ ;
```

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# Gliccvpl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliccvpl | FP | DMbool |

### 1.1 Gliccvpl

ICCV Purchase Limit Feature Activation Parameter

### 1.2 Description

The ICCV-PL feature was canceled.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** Not supported on any ODA/RC form.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parameters, so FP is specified */
/* here.  The group partitioning should be:               */
/*      RLdb_gpdus.grp_type = GPD_OSPS                    */
/*      RLdb_gpdus.grp_id   = 4                           */
pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
/* RULE about Gliccvpl.values: */
        /* no check */ ;
```

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# Glicdmtm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicdmtm | FP | DMuns11 |

### 1.1 Glicdmtm

Intermediate Call Disposition Message Time

### 1.2 Description

The ICCV-PL feature was canceled.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Not supported on any ODA/RC form.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 720;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot  */
/* be specified for global parameters, so FP is specified  */
/* here. The group partitioning should be:                 */
/*      RLdb_gpdus.grp_type = GPD_OSPS                     */
/*      RLdb_gpdus.grp_id = 4                              */
pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glicdmtm.values: */
Glicdmtm is_in {0, 30 thru 1200 by 30};
end
```

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# Glicfinh

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicfinh | FP | DMbool |

### 1.1 Glicfinh

Global Office Parameter Glicfinh

### 1.2 Description

Used by Export line forwarding to allow or inhibit line forwarding features on an office basis.

```
DBYES - inhibits all Line Forwarding
DBNO  - allows all Line Forwarding
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glicfinh.values: */
      /* no check */ ;
```

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# Glicfout

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicfout | FP | DMbool |

### 1.1 Glicfout

Global Office Parameter Glicfout

### 1.2 Description

Used by Export Line Forwarding to allow or inhibit the forwarded-to DN to reside outside the office.

```
DBYES - allows the forwarded-to DN to reside outside the office.
DBNO -  disallows the forwarded-to DN to reside outside the office.
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glicfout.values: */
        /* no check */ ;
```

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# Glicfree

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicfree | FP | DMbool |

### 1.1 Glicfree

Global Office Parameter Glicfree

### 1.2 Description

Used by Export line forwarding to allow or inhibit the forwarded-to DN to terminate to a free (no charge) line.

```
DBYES - allows forwarding to free terminations.
DBNO  - disallows forwarding to free terminations.
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glicfree.values: */
        /* no check */ ;
```

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# Glicgmsdpc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicgmsdpc | FR | DMshort |

### 1.1 Glicgmsdpc

Global Office Parameter Glicgmsdpc

### 1.2 Description

This global parameter is used only by International CCITT7. This parameter holds the number of messages to be received from an OPC for a congested DPC before sending the OPC a transfer controlled message.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 8

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** None.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 8;
```

***Distribution Rules:***
```
/* Standard */
```

***Checks:***
```
/* range check */
Glicgmsdpc is_in {6 thru 10};
```

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# Glicindx7

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicindx7 | LPFP | DMushort |

### 1.1 Glicindx7

Global Office Parameter Glicindx7 - incremental number of rlCINDX7 tuples

### 1.2 Description

The Glicindx7 global parameter contains an AM/SM's incremental rlCINDX7 tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** TMglicindx

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required. This value cannot be changed by more than 50 during each update.

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***

***Checks:***
```
/* RULE about Glicindx7.values: */

Glicindx7 is_in { 0 thru 400 };
begin
        let x = (2 * Glpci7lab ) + ((Glentry7 + 50)/ 50 );
        if ( x < 400 ) then
        begin
                Glicindx7 <= (400 - x);
        end
        else
```

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```
        begin
                Glicindx7 == 0;
        end
        if ( Glentry7 == 0 ) then
        begin
                Glicindx7 == 0;
        end
end
```

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# Glicldb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicldb | FP | DMushort |

### 1.1 Glicldb

Incremental value for number of Call Leg Data Block tuples

### 1.2 Description

The Glicldb global parameter contains an SM's incremental rlCLDB tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glicldb.values */

/* Glicldb is_in {0 thru (DBQNCLDB - DBSFCLDB)}; */
Glicldb is_in {0 thru (30720 - 2)};
```

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```
end
```

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# Gliclidfeatid

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliclidfeatid | FR | DMfid |

### 1.1 Gliclidfeatid

Global Office Parameter Gliclidfeatid

### 1.2 Description

This global parameter contains a LASS ICLID feature id for GENERALLY AVAILABLE feature access. This will be used by call processing to determine which tuple to read in the _cf and _opts relations for GENERALLY AVAILABLE features. Even though this parameter has a default of null specified for the generally available feature id, ODA should populate this parameter as a result of the ODA process which converts feature names to feature ids. This parameter is populated with the last 10 bits of RLfacname.facid which is accessed by using the GENERALLY AVAILABLE feature name, /DIGA, as the key.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Gliclidfeatid.values: */
        /* no check */ ;
```

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# Glicmin

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicmin | LR | DMuns7 |

### 1.1 Glicmin

Global Office Parameter Glicmin

### 1.2 Description

This global parameter is reserved for future OSPS fast feature development work. It should be initialized to all zeroes.

This spare global does not conform in name to other spares due to the fact that it was used returned as a spare in 5e9.2.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 40

***AM Initial Value:*** 40

***CMP Initial Value:*** 40

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:*** standard

***Checks:***
```
/* RULE about Glicmin.values: */
        /* no checks */
```

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# Glicoinot

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicoinot | FP | DMshort |

### 1.1 Glicoinot

Incremental value for number of RLcoinot tuples

### 1.2 Description

The Glicoinot global parameter is used to increase the number of RLcoinot tuples allocated in the SM. Its value is established via ODA or RC/V and is maintained over retrofits.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** OAalo_coinot

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required. This global parameter is populated only on OSPS PSMs or originating SMs; on other SMs it is always zero.

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glicoinot */

if (Glospsta == DBYES) then
begin

        if ((count({lpconf in RLlpconfig
```

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```
                where(lpconf.smconfig == Glconfigname &&
                        lpconf.package == GLOPSMOT)}) > 0) ||
           (count({lpconf in RLlpconfig
                where(lpconf.smconfig == Glconfigname &&
                        lpconf.package == GLOPSMDAAC)}) > 0)) then
        begin
                Glicoinot is_in {0 thru 24192};
                /* Glicoinot is_in {0 thru ($DBQNCOINOT - $DBSFCOINOT)}; */
        end
        else
        begin
                Glicoinot == 0;
        end
end
else
begin
                Glicoinot == 0;
end
end
```

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# Glicos_carr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicos_carr | FR | DMbcarid |

### 1.1 Glicos_carr

Global Office Parameter Glicos_carr"

### 1.2 Description

This global parameter indicates the preselect (default) interexchange carrier for blind transfer to external IC operator system.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10001

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** On the RC/ODA form, #NULL_BCARID is mapped to unknown. On the RC/ODA form, #LECBCARID is mapped to 'LEC'.

***Retrofit Rules:*** If Glicos_carr is set to '000' in 5E8, then it should be set to #LECBCARID when the data is evolved.

***Default Rules:***
```
default = $LECBCARID;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glicos_carr.values: */
Glicos_carr is_in {0 thru $FGDMAXBCAR, $NULL_BCARID, $LECBCARID};

/* RULE about Glicos_car: */
if (Glicos_carr != $NULL_BCARID && Glicos_carr != $LECBCARID) then
begin
        let str() = itoa(Glicos_carr);
        let len() = 4 - length(str());
        let carr() = (len() == 0) ? str() :
                        strcat(substr("0000", 0, len()), str());
```

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```
        find == 1 fc_carr in RLfc_carr
        where (fc_carr.carrid == carr());   /* 9.1 */
end
```

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# Glicplr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicplr | FP | DMushort |

### 1.1 Glicplr

Incremental value for number of Port to Process Coupler tuples

### 1.2 Description

The Glicplr global parameter contains an SM's incremental rICPLR tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glicplr.values */

/* Glicplr is_in {0 thru (DBQNCPLR - DBSFCPLR)}; */
Glicplr is_in {0 thru (65535 - 1)};
```

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```
end
```

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# Glicqb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicqb | FP | DMushort |

### 1.1 Glicqb

Incremental value for number of Circuit Queuing Block tuples

### 1.2 Description

The Glicqb global parameter contains an SM's incremental rlCQB tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glicqb.values */

/* Glicqb is_in {0 thru (DBQNCQB - DBSFCQB)}; */
Glicqb is_in {0 thru (321 - 1)};
```

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```
end
```

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# Glicrd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicrd | FP | DMshort |

### 1.1 Glicrd

Incremental number for Base and OSPS Call Records

### 1.2 Description

This Glicrd global parameter is used to increase the number of RLcrecord and RLocrecord tuples allocated in the SM. Its value is established via ODA or RC/V and is maintained over retrofits.

The initial value must be 0.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during an update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glicrd */

Glicrd is_in {0 thru 32000};
```

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```
end
```

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# Glicsbiltm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicsbiltm | FR | DMuns9 |

### 1.1 Glicsbiltm

Global Office Parameter Glicsbiltm

### 1.2 Description

This global parameter is used by the inmate calling services (ICS) feature to specify the length of time, in 15 second intervals, OSPS shall wait to receive a message from the EIS. The value specified is used when the OSPS has determined that billing is acceptable for the associated call and the call can be allowed to complete.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 240

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e10.1, this parameter must be set to the value of bits 8 thru 16 in Gloff4.

***Default Rules:***
```
default = 240;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glicsbiltm.values: */
Glicsbiltm is_in {15,30,45,60,75,90,105,120,135,150,165,180,195,210,
                  225,240,255,270,285,300,315,330,345,360,375,390,
                  405,420,435,450,465,480};
```

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# Glicseistm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicseistm | FR | DMuns8 |

### 1.1 Glicseistm

Global Office Parameter Glicseistm

### 1.2 Description

This global parameter is used by the inmate calling services (ICS) feature to specify the length of time, in 10 second intervals, OSPS shall wait to receive a message from the EIS. The value specified is used when the OSPS has recognized that the EIS has gone off-hook on the ARU port.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 60

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e10.1, this parameter must be set to the value of bits 0 thru 7 in Gloff4.

***Default Rules:***
```
default = 60;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glicseistm.values: */
Glicseistm is_in {10,20,30,40,50,60,70,80,90,100,110,120,130,
                  140,150,160};
```

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# Glicsupv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicsupv | FR | DMbool |

### 1.1 Glicsupv

Global Office Parameter Glicsupv

### 1.2 Description

Set if the trunk network number (SSU) should be recorded on corner answered calls. CI and FGB calls are not categorized as local or toll for network completion studies. Glicsupv should be set to DBYES if the switch supervisory unit number should be appended to answered CI and FGB access records.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glicsupv.values: */
        /* no check */ ;
```

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# Glicterm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicterm | FR | DMbool |

### 1.1 Glicterm

Global Office Parameter Glicterm

### 1.2 Description

Indicates if an office is recording interdata terminating success records (DBYES). It should be set to DBNO if an office is not recording terminating access records.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glicterm.values: */
        /* no check */ ;
```

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# Glictmc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glictmc | LP | DMuns13 |

### 1.1 Glictmc

Global Office Parameter Glictmc

### 1.2 Description

The Logical Processor to populate according to the following rules is identified by Glpacdq. Other Logical Processors should be populated with the value zero.

This global parameter (Interposition Conference and Transfer Maximum Calls) specifies the maximum number of calls that may be queued for 'claimed' positions. It is the maximum number of conference and transfer requests within the OSPS ACD to specific positions (that is, requested by operator login id or position number) that can be queued because the 'claimed' positions are busy.

This parameter appears on the ODA OSPS Office Options form. It also appears on the RC/V OSPS Office Parameters view 8.9 in the field 'CLAIM CQDB' in the 'CALL QUEUE SLOTS' section.

The RLCTINFO trigger function will respond to increases to Glictmc on RC/V view 8.9 by inserting additional tuples into RLCQDB such that the number of tuples (reflected in Glcqdbx) is not less than the sum (Glctmcs + Glictmc).

The sum (Glctmcs + Glictmc) is displayed (read only) on the OSPS Office Parameters view 8.9 in the field named 'REQUIRED CQDB' in the 'CALL QUEUE SLOTS' section. Recent Change and ODA are both required to disallow the sum (Glctmcs + Glictmc) from exceeding 5000.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = (Glospson == DBYES || Glospsta == DBYES) ? 10 : 0;
   /* 10 for an OSPS office, 0 for a non-OSPS office.
    * The office is an OSPS office if Glospson
    * or Glospsta is set to DBYES.
```

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```
    */
```

***Distribution Rules:***

```
/* standard - LP */
     ;
```

***Checks:***

```
/* RULE about Glictmc.values: */
Glictmc on cmp is_in {0 thru 5000};
```

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# Glicttoop

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicttoop | FR | DMbool |

### 1.1 Glicttoop

Global Office Parameter Glicttoop

### 1.2 Description

This global parameter indicates whether the caller is routed to an operator when an inverse contract table check violation is detected by call processing.

The inverse contract table check is performed when the caller uses a LEC calling card on an AT&T carried call.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glicttoop.values: */
        /* no check */ ;
```

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# Glicv_stat

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glicv_stat | FP | DMushort |

### 1.1 Glicv_stat

Incremental value for number of Call Vectoring State tuples

### 1.2 Description

The Glicv_stat global parameter contains an SM's incremental rICV_STATE tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** RItricvst

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glicv_stat.values */
if (current_pcr is_in sm_all) then
begin

if (Glicv_stat != 0) then
```

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```
begin
        Glcv_fb == DBYES && Gl_cacd == DBYES;

        /* Glicv_stat is_in {1 thru (DBQNCV_STA - DBSFCV_STA)}; */
        Glicv_stat is_in {1 thru (16383 - 0)};
end
end
```

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# Glidalb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glidalb | FP | DMushort |

### 1.1 Glidalb

Incremental value for number of D-channel Application Linkage Block tuples

### 1.2 Description

The Glidalb global parameter contains an SM's incremental rlDALB tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** FCidalbtr

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glidalb.values */
if (current_pcr is_in sm_all) then
begin
if (Glidalb != 0) then
begin
```

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```
        find == 1 lpconf in RLlpconfig
        where ((lpconf.smconfig == Glconfigname) &&
               (lpconf.package == GLISDNBRCS))
        when_found
        begin
/*              Glidalb is_in {1 thru (DBQNDALB - DBSFDALB)}; */
                Glidalb is_in {1 thru (32000 - 1)};
        end
end
end
```

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# Glidbcnd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glidbcnd | FP | DMushort |

### 1.1 Glidbcnd

Incremental value for number of ICLID Calling Number Delivery tuples

### 1.2 Description

The Glidbcnd global parameter contains an SM's incremental rlDBCND tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glidbcnd.values */
if (current_pcr is_in sm_all) then
begin

/* Glidbcnd is_in {0 thru (DBQNDBCND - DBSFDBCND)}; */
Glidbcnd is_in {0 thru (4095 - 0)};
end
```

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# Glidcucnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glidcucnt | LR | DMshort |

### 1.1 Glidcucnt

Count of Operational IDCUs in the switch

### 1.2 Description

This global parameter is the count of operational IDCUs (unit type = SMIDCU) in the switch. This parameter is used by measurements for some calculations.

As IDCUs are grown in or grown out, this count is incremented or decremented.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard - LR */
```

***Checks:***
```
/* RULE about Glidcucnt.values: */
        /* no check */ ;

/* RULE about Glidcucnt: */

function func() returning boolean
        idt_cnt = 0;
        /* loop through RLrc_eqloc looking for IDCUs (only service group*/
        /* 0 since both should exist)                                    */

        for rc_eqloc in RLrc_eqloc
```

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```
        where ((rc_eqloc.unittype == SMIDCU) &&

            (rc_eqloc.service_group == 0))
        begin
                find == 1 unit_ckt in RLunit_ckt on sm(rc_eqloc.im)
                where (unit_ckt.ckt_indx == 1 &&
                        unit_ckt.utype == SMIDCU &&
                        unit_ckt.unit == rc_eqloc.unit_no)
                when_found
                begin
                        find == 1 cktdata in RLcktdata on sm(rc_eqloc.im)
                        where (cktdata.name == unit_ckt.cktname)
                        when_found
                                if (cktdata.eqstat == SMOPER) then
                                begin
                                        idt_cnt = idt_cnt + 1;
                                end
                end
        end
        assert(Glidcucnt == idt_cnt);
        return true;
end
func();
```

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# Glidispdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glidispdb | FP | DMushort |

### 1.1 Glidispdb

Incremental value for number of Display Data Block tuples

### 1.2 Description

The Glidispdb global parameter contains an SM's incremental rlDISPDB tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** FCidisptr

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glidispdb.values */
if (Glidispdb != 0) then
```

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```
begin
        find == 1 lpconf in RLlpconfig
        where ((lpconf.smconfig == Glconfigname) &&
               (lpconf.package == GLISDNBRCS))
        when_found
        begin
                /* Glidispdb is_in {1 thru (DBQNDISPDB - DBSFDISPDB)}; */
                Glidispdb is_in {1 thru (32000 - 0)};
        end
end
end
```

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# Glidlech

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glidlech | FP | DMshort |

### 1.1 Glidlech

Global Office Parameter Glidlech

### 1.2 Description:

This global parameter contains the numbers of the peripheral channels which currently source idle code to the network. At power-up initialization, this variable should contain the value zero. There is no way for maintenance to update this value, only the *5ESS*®-2000 switch software can do it. This value should remain intact during a Generic Retrofit.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** RC and ODA will always set Glidlech = 0 for SM-2000. ODA will not preserve values over a retrofit for SM-2000.

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
BCidlech:  if (current_pcr is_in sm_all) then
begin

/* RULE about Gldilech: */

        for modatt in RLmodatt
        where (modatt.module == current_pcr)
        begin
                if( modatt.unittype is_in {SMSM2000, SMSM2005}) then
```

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```
                begin
                        let link = Glidlech{10:15};
                        let tts = Glidlech{0:9};

                        select (Glidlech)
                        begin
                                when (0):  /* ODA default */
                                begin
                                        true;
                                end
                                else:
                                begin
                                        if (Glaws == DBYES) then
                                        begin
                                                link == 2; /* TS_LOOP */
                                        end
                                        else
                                        begin
                                                link is_in {2,3}; /* TS_NLI */
                                        end

                                        /* see PCtsi4macs.G, PCIS_LPTS()
                                         * and PCloop_ts[]
                                         *
                                         * Must be a loop TSI time slot
                                         */
                                        (( tts >> 3 ) % 3 ) == 1;
                                        /* Reserved for diagnostics */
                                        tts != 8;
                                end
                        end
                end

                else
                        Glidlech is_in {0 thru 511};
        end

end
```

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# Glidnvl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glidnvl | FR | DMbool |

### 1.1 Glidnvl

Global Office Parameter Glidnvl

### 1.2 Description

This global parameter specifies whether the CCS identity validation is required or not for LASS screen list entries during a SLE session.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBYES;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glidnvl.values: */
        /* no check */ ;
```

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# Glidpbxs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glidpbxs | LR | DMcount |

### 1.1 Glidpbxs

Global Office Parameter Glidpbxs

### 1.2 Description

This global parameter indicates the number of equipped in-dialing Private Branch Exchanges (PBXs) in an office. This is an export parameter.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glidpbxs.values: */
Glidpbxs is_in {0 thru 4096};
```

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# Glidpdesep

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glidpdesep | FR | DMdesep |

### 1.1 Glidpdesep

Global Office Parameter Glidpdesep

### 1.2 Description

This global parameter will store the desep value for IDP dial codes. When IDP digit analysis identifies that an IDP dial code has been dialed, the value of Glidpdesep will be assigned to the desep in the route request message. The desep in the route request message will make its way into the Call Record. All IDP dial codes will be given this desep, regardless of what IDP group the dial codes are defined in.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** For retrofit from 5E7(1) to 5E8(1), the new 5E8(1) global parameter Glidpdesep will be assigned the value of Glim8dummy. In 5E8(1), Glim8dummy is replaced by Glidpdesep, so Glim8dummy will be available for use. Once Glidpdesep is given the value of Glim8dummy, Glim8dummy should be set to zero.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glidpdesep.values: */
Glidpdesep is_in {0 thru 255};
```

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# Glie911db

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glie911db | FP | DMushort |

### 1.1 Glie911db

Incremental value for number of E911 Data Block tuples

### 1.2 Description

The Glie911db global parameter contains an SM's incremental rlE911DB tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glie911db.values */
if (Glie911db != 0) then
begin
        /* Glie911db is_in {1 thru (DBQNE911DB - DBSFE911DB)}; */
```

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```
        Glie911db is_in {1 thru (2047 - 0)};
end
end
```

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# Glientry7

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glientry7 | LPFP | DMushort |

### 1.1 Glientry7

Global Office Parameter Glientry7 - incremental number of rlENTRY7 tuples

### 1.2 Description

The Glientry7 global parameter contains an AM/SM's incremental rlENTRY7 tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** TMglientry

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required. This value cannot be changed by more than 50 during each update.

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
;
```

***Checks:***
```
/* RULE about Glientry7.values: */

Glientry7 is_in { 0 thru 3000 };
begin
        let x = (3 * Glpci7gr )/ 4;
        if ( x < 3000 ) then
        begin
                Glientry7 <= (3000 - x);
        end
```

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```
        else
        begin
                Glientry7 == 0;
        end
        if ( Glpci7gr == 0 ) then
        begin
                Glientry7 == 0;
        end
end
```

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# Glifad

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glifad | LP | DMbool |

### 1.1 Glifad

Schedule interflow activation and deactivation

### 1.2 Description

This global parameter indicates if scheduled interflow activation and deactivation is active in this office. If set to DBYES, scheduled interflow activation and deactivation pattern data is processed by the auto-reconfiguration terminal process, which is created every 15 minutes.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** 0

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** ODA should always populate this parameter with the default value

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
/* standard - LP ( CMP ) */
       ;
```

***Checks:***

```
/* RULE about Glifad.values: */
        /* no check */ ;
```

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# Glifname

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glifname | LRFR | DMctxt4 |

### 1.1 Glifname

Global Office Parameter Glifname

### 1.2 Description

This global parameter indicates the name of an OSPS office used for interflow. The name is used as part of the display on the operator's console.

***Type:*** DB4STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** "0"

***AM Initial Value:*** "0"

***CMP Initial Value:*** "0"

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = "0000";
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glifname.values: */
if ( current_pcr is_in sm_all ) then
begin
        if ( Glospsta == DBYES ) then
        begin
                Glifname ~== "[0-9,A-Z][0-9,A-Z][0-9,A-Z][0-9,A-Z]";
        end
end
```

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# Glifosps

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glifosps | LRFR | DMuns8 |

### 1.1 Glifosps

Global Office Parameter Glifosps

### 1.2 Description

This global parameter indicates if Interflow is in progress in this office. It is used internally by OSPS Interflow call processing code. It contains the total number of serving teams in this office that have their call traffic interflowed. This parameter is kept up-to-date by the OSPS auto-reconfiguration process (ASautrec) and Immediate Interflow Activation and Deactivation RC/V by setting it to the value of the sum of all the num_on attributes in the static relation RList_parm whenever Interflow is activated or deactivated.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glifosps.values: */
Glifosps is_in {0 thru 128};
```

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# Glifrn_ama

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glifrn_ama | FP | DMushort |

### 1.1 Fullname:

Incremental value for number of AIN Furnish_AMA_Information tuples

### 1.2 Description:

The Glifrn_ama global parameter is used to increase the number of rlFRN_AMA tuples allocated in the SM. Its value is established by ODA and can be modified via recent change.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** FCtrifrnama,

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** A recent change Software Resource Engineering (SRE) view and SRE ODA form are required.
If neither SFID515 nor SFID517 is active then Glifrn_ama must equal 0.
RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/*    RULE about Glifrn_ama values:     */

      if (Glifrn_ama != 0) then
      begin
            /* The application must be set to CCAINR01, which
```

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```
             * indicates the dynamic ASP relations have been
             * initialized because AINR01 is active, before tuples
             * can be added.
             */
            let AINR01COUNT = count { ds_app in RLds_app
            where (ds_app.ds_type == CCAINR01) };

            AINR01COUNT == 1;

            Glpvn_ofc == DBPVN_SSP;

          /*  Glifrn_ama is_in { 1 thru (DBQNFRN_AMA - DBSFFRN_AMA) }; */
            Glifrn_ama is_in { 1 thru (32001 - 1) };
      end

end
```

# Gliftransid

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliftransid | LRFR | DMuns8 |

### 1.1 Fullname:

Global Office Parameter Gliftransid

### 1.2 Description:

This parameter is the translation identifier for this OSPS. The translation identifier is used to translate interflow messages and affect decision points in the processing of a call when differing generics or point issues of software are used in an interflowed complex.

RETROFIT: For retrofit this parameter needs to be updated to the next generic identifier (such as, 61 for 5E6, 71 for 5E7, etc.) by ODA.

DEFAULTS: This parameter's defaults need to be updated to the next generic identifier (such as, 61 for 5E6, 71 for 5E7, etc.) For each generic.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 131

***AM Initial Value:*** 131

***CMP Initial Value:*** 131

***RC/ODA Rules:*** For each software release, ODA and RC must set the value of this parameter to the current software release value, such as, 5e8(1) should be populated as 81.

***Retrofit Rules:*** For each retrofit, ODA must set the value of this parameter to the new software release value, such as, 5e8(1) should be populated as 81.

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Gliftransid.values: */

Gliftransid is_in {51 thru 255};
```

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# Glignscrn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glignscrn | FR | DMbool |

### 1.1 Glignscrn

Ignore Screening on 0+ Calls

### 1.2 Description

This global parameter will be used to determine whether pre-query screening will occur on 0+ calls when an Off-Hook Delay (OHD) feature is assigned to the originating party. If the parameter is set to DBYES, screening will be ignored on 0+ calls from an originator with an OHD feature, and an Info_Collected Trigger will be launched. If the parameter is set to DBNO, screening will occur on 0+ calls from an originator with an OHD feature. In the second case, an Info_Collected Trigger may or may not be launched, depending on the results of screening. This parameter can be set to DBYES only if the Pre-Query Screening for OHD Trigger feature is active in the office (SFID178 is on).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glignscrn.values: */
        /* no check */ ;
```

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# Gligpftime

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gligpftime | FP | DMushort |

### 1.1 Gligpftime

Incremental value for the number of Timer Element Index (rlGPFTIMER) tuples

### 1.2 Description:

The Gligpftime global parameter contains an SM's incremental rlGPFTIMER tuple count. It is established by ODA and is changeable via Recent Change. A trigger function inserts the additional tuples and links them to idle list. Value is maintain across SM inits.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** TMi_trig

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required. Add new enum to SOFTWARE RESOURCE field in view 8.40 and "sreincr" form

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* Populate on all SMs */

        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

        /* RULE about Gligpftime.values */
        if (Gligpftime != 0) then
```

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```
        begin
                find == 1 lpconf in RLlpconfig
                where ((lpconf.smconfig == Glconfigname) &&
                        (lpconf.package == GLISDNBASE))
                when_found
                begin

                /* Gligpftime is_in {0 thru (DBQNGPFTIMER - DBSFGPFTIMER)}; */
                        Gligpftime is_in {1 thru (21810 - 0)};
                end
        end
end
```

# Gliic_cnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliic_cnt | LP | DMpsiic_cn |

### 1.1 Fullname:

Global Office Parameter Gliic_cnt, International Interlock Code counter for Closed User Groups.

### 1.2 Description:

This global office parameter is used to keep a count of the number of Closed User Group International Interlock Codes (IICs) defined in the entire switch. The count is maintained so that RC can quickly determine if it should allow a new tuple to be populated in the relation RLpscug_iic. A maximum of 1600 IIC's are allowed per *5ESS*® switch for all X.75 trunk groups. This global is an internal RC / ODA populated parameter and is not displayed on any view. The global may only be updated using ODBE (to fix corruption).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA should initially populate this global parameter as zero (on retrofit). Neither RC or ODA should allow this global parameter to be changed (no display). The global may only be updated using ODBE.

***Retrofit Rules:*** This global parameter should be populated as zero on the CMP at the time of retrofitting from either the 5e6 or 5e7 software release to the 5e8 software release.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP ( CMP ) */
        ;
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Gliic_cnt.values: */

let iic_cnt = Gliic_cnt on cmp;
Gliic_cnt on cmp is_in {0 thru 1600};
```

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```
/* RULE about Gliic_cnt: */

for db_gpdus in RLdb_gpdus
where (db_gpdus.grp_type == GPDISDN &&
       db_gpdus.grp_id == 0 &&
       db_gpdus.module is_in sm_all)
begin
        let tupcount = 0 + count { pscug_iic in RLpscug_iic on db_gpdus.module };

        /* Must count the number of tuples in RLpscug_iic.  The count
         * of tuples must match the value of this global parameter!
         * If the value of Gliic_cnt is zero then no tuples should be
         * found in RLpscug_iic.  In this case the tupcount variable
         * will remain zero and should match the value of the parameter.
         */


        if(iic_cnt ==0 ) then
                tupcount == 0;
        else
                if (runucv) then
                tupcount == iic_cnt;
end
```

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# Gliir_dur

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliir_dur | FP | DMshort |

### 1.1 Gliir_dur

Global Office Parameter Gliir_dur

### 1.2 Description

This global parameter indicates the duration of the immediate initial ring burst to be applied by the IIR feature on PBX lines. Used by Export.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gliir_dur.values: */
if (current_pcr is_in sm_all) then
begin
     Gliir_dur is_in {0 thru 65};
end
```

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# Glilc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glilc | FP | DMbool |

### 1.1 Glilc

Global Office Parameter Glilc

### 1.2 Description

This global parameter specifies whether or not Intra-Lata Call Screening is permitted. This parameter should be populated in all the SMs with the GLISDNPCKT software loadable package. Therefore, for SMs with the GLISDNPCKT software loadable package, Glilc may be DBYES or DBNO. For the SMs without the GLISDNPCKT software loadable package, Glilc must be DBYES.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBYES;
```

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glilc.values: */
        /* no check */ ;

/* RULE about Glilc: */
if (current_pcr is_in sm_all) then
begin
        if ( Glilc == DBNO ) then
        begin
                find == 1 lpconf in RLlpconfig
                where ( lpconf.smconfig == Glconfigname &&
```

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```
                        lpconf.package == GLISDNPCKT );
        end
end
```

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# Glilec

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glilec | FR | DMbool |

### 1.1 Glilec

ISUP Non-Interworking LEC Announcement Indicator (Glilec)

### 1.2 Description

Glilec is used to control if tone/announcement is applied to a call with bearer capability of `3.1kHz audio' or `speech' after certain failure events occur on an ISUP7 trunk in the LEC network. This only applies to non-ISDN access calls which have used ISUP7 trunks all the way (IAM.FCI.isdn_access=0 & IAM.FCI.isup=1).

It does not apply to the following failure events:

```
unallocated number (1)
user busy (17)
no user responding (18)
call rejected (21)
number changed (22)
destination out of order (27)
bearer capability not implemented (65)
```

If a failure event other than what is listed above occurs, the switch software must determine whether to

```
(1) send a Release Message or
(2) provide an appropriate tone or announcement.
```

The value of this parameter should be optioned by the customer to one of the values below.

```
DBYES: A tone/announcement should be provided to
       the preceding exchange.
DBNO:  A Release Message should be sent to
       the preceding exchange.
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

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***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
standard
```

***Checks:***

```
/* RULE about Glilec.values: */
        /* no check */ ;
```

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# Glilscmdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glilscmdb | FP | DMushort |

### 1.1 Glilscmdb

Incremental value for number of Large Shared Call Module Data Block tuples

### 1.2 Description

The Glilscmdb global parameter contains an SM's incremental rlLSCMDB tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** FCilscmtr

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glilscmdb.values */
if (current_pcr is_in sm_all) then
begin

if (Glilscmdb != 0) then
```

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```
begin
        find > 0 lpconf in RLlpconfig
        where ((lpconf.smconfig == Glconfigname) &&
               (lpconf.package is_in {GLASHDN, GLISDNBRCS}))
        when_found
        begin
                /* Glilscmdb is_in {1 thru (DBQNLSCMDB - DBSFLSCMDB)}; */
                Glilscmdb is_in {1 thru (28800 - 0)};
        end
end
end
```

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# Glilspvact

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glilspvact | FP | DMbool |

### 1.1 Glilspvact

Global Office Parameter Glilspvact

### 1.2 Description

This Global Parameter is used to activate and de-activate the Supplementary ILS/DPC Policing Reports.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ***NOTE:*** The ILS/DPC Policing feature isn't supported, therefore Glilspvact should be populated with DBNO.

***Retrofit Rules:*** None.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
for gsm_opc in RLgsm_opc
begin
          pcrlist[gsm_opc.gsm] = true;
end
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
       /* Glilspvact should equal DBNO. */
       Glilspvact == DBNO;
end
```

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# Glim1dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glim1dummy | FP | DMlong |

### 1.1 Glim1dummy

Global Office Parameter Glim1dummy

### 1.2 Description

These are dummy parameters being put in for future need. They should be populated to zero initially.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glim1dummy.values: */
        /* no check */ ;
```

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# Glim2dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glim2dummy | FP | DMlong |

### 1.1 Fullname:

Global Office Parameter Glim2dummy

### 1.2 Description:

This global parameter is being used in 5e13 for the IS-53A Preferred Language Feature to define the default language to play *Autoplex*® announcements.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glim2dummy.values: */

Glim2dummy is_in {0 thru 2,6,7};

/* Verify announcement(s) defined for this default language */
if (Glim2dummy != 0) then
begin
        find > 0 fc_genra in RLfc_genra
        where ( fc_genra.ann_var == Glim2dummy);
end
```

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# Glim3dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glim3dummy | FP | DMlong |

### 1.1 Glim3dummy

Global Office Parameter Glim3dummy

### 1.2 Description

These are dummy parameters being put in for future use. Populate to zero (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glim3dummy.values: */
        /* no check */ ;
```

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# Glim4dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glim4dummy | FP | DMlong |

### 1.1 Glim4dummy

Global Office Parameter Glim4dummy

### 1.2 Description

These are dummy parameters being put in for future need due to R load being frozen. Populate to zero (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glim4dummy.values: */
        /* no check */ ;
```

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# Glim5dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glim5dummy | FP | DMlong |

### 1.1 Glim5dummy

Global Office Parameter Glim5dummy

### 1.2 Description

This global parameter is used to allow or disallow a user to transfer a picked up leg. The 1A does not allow a picked up leg to be transferred. Some offices consider the ability to transfer a pickup call and for the value of Glim5dummy (global SM parameter) to decide if the call should be blocked. If the parameter is 0, the call will be blocked as it is in the 1A. If the parameter is set to 1, the transfer will not be blocked. On retrofits from 5E4(2) to 5E5(1) or to 5E6(1) preserve existing value. This parameter will be replaced in 5E7(1) by Glmwcpu.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glim5dummy.values: */
        /* no check */ ;
```

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# Glim6dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glim6dummy | FP | DMlong |

### 1.1 Glim6dummy

Global Office Parameter Glim6dummy

### 1.2 Description

This global parameter is used by the field feature optioning system (FFOS) for 5E4(2) and 5E5 generics. This parameter is not SM redundant, and is used to set or reset the feature options in an individual SM. Each bit in this parameter represents a feature option, except for the sign bit (bit 31). Bit 0 represents feature option 0, bit 1 represents feature option 1, etc. Bit 31 should not be used because it is a sign bit. Thus, this parameter provides 31 feature options, options 0 through 30. The feature option is on when the bit is set (1), and the option is off when the bit is reset (0).

In a retrofit from 5E4(2) to 5E5, ODA must recover this parameter. This parameter will be replaced by Glffos0 in 5E6. This parameter is populated by Recent Change. ODA should initialize this parameter to 0.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glim6dummy.values: */
Glim6dummy is_in {0 thru 0x7fffffff};
```

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```
end
```

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# Glim7dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glim7dummy | FP | DMlong |

### 1.1 Glim7dummy

Global Office Parameter Glim7dummy

### 1.2 Description

These are dummy parameters being put in for future use. Populate to zero (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glim7dummy.values: */
        /* no check */ ;
```

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# Glim8dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glim8dummy | FP | DMlong |

### 1.1 Glim8dummy

Global Office Parameter Glim8dummy

### 1.2 Description

These are dummy parameters being put in for future need due to R load being frozen. Populate to zero (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glim8dummy.values: */
        /* no check */ ;
```

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# Glim9dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glim9dummy | FP | DMlong |

### 1.1 Glim9dummy

Global Office Parameter Glim9dummy

### 1.2 Description

These are dummy parameters being put in for future need due to R load being frozen. Populate to zero (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glim9dummy.values: */
        /* no check */ ;
```

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# Glim10dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glim10dummy | FP | DMlong |

### 1.1 Glim10dummy

Global Office Parameter Glim10dummy

### 1.2 Description

This global parameter is used by field feature 2.1 (NOANI) for the 5e4(2) and 5e5 generics. This parameter will enable craft to print or suppress a message to the read only printer (ROP), by turning it on/off through ODBE. The messages will indicate that an incoming call to the 5ESS(R)-2000 switch over an equal access (LATA_CONNECT) Trunk contains no ANI information or contains a KP+ST sequence (that is no ANI digits). The feature option is on when it is set to 1 and off when it is set to 0. This bit is not preserved from 5e4(2) to 5e5 and therefore has to be reset in 5e5. In the 5e6 design, this bit will no longer be used since craft will be allowed to turn the feature on and off through input commands.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glim10dummy.values: */
if (current_pcr is_in sm_all) then
begin
      Glim10dummy is_in {0 thru 1};
end
```

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# Glim11dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glim11dummy | FP | DMlong |

### 1.1 Glim11dummy

Global Office Parameter Glim11dummy

### 1.2 Description

This global parameter is restored for future use in 5E9 after being used in 5E6(1), 5E7(1), and 5E8(1) for mdii threshold alarming. Populate to zero (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glim11dummy.values: */
        /* no check */ ;
```

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# Glim12dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glim12dummy | FP | DMlong |

### 1.1 Glim12dummy

Global Office Parameter Glim12dummy

### 1.2 Description

This global parameter is restored for future use in 5E9 after being used in 5E6(1), 5E7(1) and 5E8(1) for mdii threshold alarming.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glim12dummy.values: */
        /* no check */ ;
```

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# Glim13dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glim13dummy | FP | DMlong |

### 1.1 Glim13dummy

Global Office Parameter Glim13dummy

### 1.2 Description

This global parameter is restored for future use in 5E9 after being used in 5E6(1), 5E7(1), and 5E8(1) for mdii threshold alarming.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glim13dummy.values: */
        /* no check */ ;
```

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# Glim14dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glim14dummy | FP | DMlong |

### 1.1 Glim14dummy

Global Office Parameter Glim14dummy

### 1.2 Description

This global parameter is being released for future use. Populate to zero (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glim14dummy.values: */
        /* no check */ ;
```

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# Glim15dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glim15dummy | FP | DMlong |

### 1.1 Glim15dummy

Global Office Parameter Glim15dummy

### 1.2 Description

This global parameter is being released for future use. Populate to zero (0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glim15dummy.values: */
        /* no check */ ;
```

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# Glimalloc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glimalloc | FP | DMshort |

### 1.1 Glimalloc

Incremental value for the number of memory allocation block (rlMALLOC) tuples.

### 1.2 Description

The Glimalloc global parameter contains an SM's incremental rlMALLOC tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** TMi_trig

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glimalloc.values */
if (Glimalloc != 0) then
```

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```
begin
        find == 1 lpconf in RLlpconfig
        where ((lpconf.smconfig == Glconfigname) &&
               ((lpconf.package == GLID303APP) ||
                (lpconf.package == GLISDNBASE)))
        when_found
        begin
/*              Glimalloc is_in {1 thru (DBQNMALLOC - DBSFMALLOC)}; */
                Glimalloc is_in {1 thru (2047 - 0)};
        end
end
end
```

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# Glimdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glimdb | FP | DMushort |

### 1.1 Glimdb

Incremental value for number of Model Data Block tuples

### 1.2 Description

The Glimdb global parameter contains an SM's incremental rlMDB tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glimdb.values */
/* Glimdb is_in {0 thru (DBQNMDB - DBSFMDB)}; */
Glimdb is_in {0 thru (65533 - 0)};
```

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```
end
```

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# Glimlt2

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glimlt2 | LR | DMbool |

### 1.1 Glimlt2

Global Office Parameter Glimlt2

### 1.2 Description

Indicates whether or not an office has Integrated MLT-2 capability. If set to DBNO, office does not have capability. If set to DBYES, office has Integrated MLT-2 capability.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glimlt2.values: */
        /* no check */ ;
```

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# Glimsmwida

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glimsmwida | FP | DMushort |

### 1.1 Glimsmwida

Incremental value for number of RLmsmwida tuples

### 1.2 Description

The Glimsmwida global parameter contains an SM's incremental RLmsmwida tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list. This global parameter is used for Software Resource Engineering.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An SRE related RC view and ODA form per-SM field are required.

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* Rules about Glimsmwida.values: */
if (Glimsmwida != 0) then
begin
        find == 1 lpconf in RLlpconfig
        where ((lpconf.smconfig == Glconfigname) &&
                (lpconf.package == GLAPBASE))
        when_found
```

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```
        begin
                Glapivc != 0;
/*              Glimsmwida is_in { 1 thru (DBQNMSMWID - DBSFMSMWID) }; */
                Glimsmwida is_in { 1 thru (1023 - 0) };
        end
end
end
```

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# Glimtresp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glimtresp | FR | DMchar3 |

### 1.1 Glimtresp

Global Office Parameter Glimtresp

### 1.2 Description

The global, Glimtresp, specifies the Enhanced Service Provider (ESP) Access Code to which a call will be transferred when the caller has implicitly requested a transfer to VMS.

***Type:*** DB4STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ---

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = "";
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glimtresp.values: */
Glimtresp ~== "[0-9]*" || Glimtresp == "";
```

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# Glimtype

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glimtype | LPFP | DMimtype |

### 1.1 Glimtype

Global Office Parameter Glimtype

### 1.2 Description

The CMPs are SM5PIM and the AM is SM5AM

Identifies IM type (such as, RSM, IM HIM etc.). It should be consistent with the information RLmodatt.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** SM5IM

***AM Initial Value:*** SM5PIM

***CMP Initial Value:*** SM5PIM

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glimtype.values: */
        /* no check */ ;
```

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# Glin_thnku

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glin_thnku | FR | DMbool |

### 1.1 Glin_thnku

Global Office Parameter Glin_thnku

### 1.2 Description

Optional ACCS thank you announcement for initial validation of billing number. This flag's default is DBYES.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBYES;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glin_thnku.values: */
        /* no check */ ;
```

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# Glinac_tim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glinac_tim | FP | DMuns16 |

### 1.1 Fullname:

Global Office Parameter Glinac_tim

### 1.2 Description:

This parameter specifies the value, in seconds, of the user inactivity timer for Directory Query Display (DQD) and Message Retrieval Display (MRD) on a per switch basis.

This parameter should be populated in all the ISDN SMs only. The value should be the same in every ISDN SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1800

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** The value of this parameter should be retained during retrofits and growths. For 5E9.2 to 5E10, see EVL code in Glinac_tim.V.

***Default Rules:***

```
default = ( count {
             lpconf in RLlpconfig
             where ( lpconf.smconfig == Glconfigname &&
                     lpconf.package == GLISDNBASE )
             } == 1 ) ? 1800:0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glinac_tim: */
```

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```
if ( count {
        lpconf in RLlpconfig
        where ( lpconf.smconfig == Glconfigname &&
                lpconf.package == GLISDNBASE )
           } == 1 ) then
begin
        Glinac_tim is_in { 60 thru 36000 };
end
else
begin
Minac1:         Glinac_tim == 0;
end

end
```

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# Glincotrk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glincotrk | LR | DMcount |

### 1.1 Glincotrk

Global Office Parameter Glincotrk

### 1.2 Description

This global parameter indicates the total number of trunks and strunks (subscriber trunks) of the type=RTINCOM (incoming) in the switch/office.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
LR, standard
```

***Checks:***
```
        /* no check */
```

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# Glincwink

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glincwink | FR | DMbool |

### 1.1 Glincwink

Global Office Parameter Glincwink

### 1.2 Description

This global parameter is used in the end office switch to determine if the office expects to receive an extra wink (start wink) from an INC carrier over the shared trunk group to the access tandem. This will be used by AMA to determine the proper carrier connect time.

```
DBNO  - do not expect first wink
DBYES - expect first wink
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
standard
```

***Checks:***

```
/* RULE about Glincwink.values: */
        /* no check */ ;
```

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# Glindets

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glindets | FR | DMulong |

### 1.1 Glindets

Global Office Parameter Glindets

### 1.2 Description

This parameter is currently used to store 3 values for the OSPS Special Feature 'LIDB - Change Handling of Indeterminate Reply Codes'. The OSPS SF LCHOIRC is using bits 0-5 for 3 parameters. Bits 0-1 represent the status for LIDB Unavailable Network Resource and Nonparticipating Group query replies, bits 2-3 represent LIDB Timeout query replies, and bits 4-5 represent all other LIDB indeterminate query replies. Bits 6-31 are currently unused and are reserved for future LIDB query replies. RC and ODA are to show the values as E (existing treatment), A (allow) and D (deny) (domain DMindetst).

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** RC and ODA must display all three fields with either an E, A or D (domain DMindetst). Bits 0-1 represent LIDB Unavailable Network Resource and Nonparticipating Group query replies, bits 2-3 represent LIDB Timeout query replies, and bits 4-5 represent all other LIDB indeterminate query replies. The RC/ODA values for each 2 bit field are E, A or D (domain DMindetst). Bits 6-31 are currently unused.

***Retrofit Rules:*** Bits 20-25 of Gloff1 in 5E8 must be copied to bits 0-5 of this global parameter in 5E9. All the other bits (6-31) are not used currently by this feature and thus need not be copied (but can be defaulted to zeros).

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glindets.values: */
Glindets is_in {0 thru 0xffffffff};
```

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# Glindtdeny

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glindtdeny | FR | DMbool |

### 1.1 Fullname:

Global Office Parameter Glindtdeny

### 1.2 Description:

This parameter specifies whether an IBNS R2 call should be blocked for Indeterminate Deny condition.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glindetdeny values: */
```

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# Glinh_snpa

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glinh_snpa | FR | DMbool |

### 1.1 Glinh_snpa

Global Office Parameter Glinh_snpa Inhibit SCP NPA Deletion

### 1.2 Description

This global parameter is used for advanced services platform (ASP) and service switching point (SSP) 800 calls to indicate deletion of the NPA should be inhibited for the routing DN returned from the service control point (SCP) data base. At a SSP office a query is made to an external SCP data base to obtain routing information necessary to complete the call. The NPA deletion functionality is done before invoking digit analysis on the returned routing DN. The default value of DBNO is used to indicate do not inhibit NPA deletion and DBYES indicates inhibit NPA deletion on the routing DN before invoking digit analysis.

```
SUPPORTED BY: RC, ODA and ODBE
ODA DEFAULT:  DBNO
RC DEFAULT:   DBNO
RANGE:        DBYES and DBNO
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNULL

***CMP Initial Value:*** DBNULL

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** This data was previously stored in the global parameter Glim14dummy. During a retrofit to 5E9, the data in global parameter Glim14dummy must be carried over and stored in this parameter.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
standard
```

***Checks:***

```
/* RULE about Glinh_snpa.values: */
        /* no check */ ;
```

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# Glinhoblol

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glinhoblol | LRFR | DMbool |

### 1.1 Glinhoblol

Inhibit Busy Line Trigger Indicator

### 1.2 Description

This parameter is being used to indicate whether or not to inhibit the busy line trigger for out-of-lata calls.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***

```
/* If SFID 212 is off, then Glinhoblol == DBNO.
 * If SFID 212 is on and Glinhoblol == DBYES, then
 * the ASP Originating BLNA Triggers with Extended
 * Ringing secured feature (189) must be marked unlocked
 * (purchased).
 */
```

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /*standard*/
```

***Checks:***

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# Glinhonaol

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glinhonaol | LRFR | DMbool |

### 1.1 Glinhonaol

Inhibit No Answer Trigger Indicator

### 1.2 Description

This parameter is being used to indicate whether or not to inhibit the no answer trigger for out-of-lata calls.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***

```
/* If SFID 212 is off, then Glinhonaol == DBNO.
 * If SFID 212 is on and Glinhonaol == DBYES, then
 * the ASP Originating BLNA Triggers with Extended
 * Ringing secured feature (189) must be marked unlocked
 * (purchased).
 */
```

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /*standard*/
```

***Checks:***

```
None
```

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# Glinhprex

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glinhprex | LRFR | DMbool |

### 1.1 Fullname:

Global Office Parameter Glinhprex.

### 1.2 Description:

This global parameter is used to enable or disable REX testing of ISDN line circuits on per office basis. This global parameter is secured by sfid - 266 - Prohibit Routine Exercise (REX) on Basic Rate Interface (BRI) - (Office). DBYES implies that REX is prohibited on all ISDN lines in an office.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** ODA should set the parameter to DBNO.

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glinhprex.values: */

Glinhprex is_in {DBNO, DBYES};
```

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# Glinic

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glinic | FP | DMpsdnic |

### 1.1 Glinic

Global Office Parameter Glinic

### 1.2 Description

Glinic is a string of 4 BCD digits. This global parameter specifies the INIC (ISDN Network Identification Code) of the ISDN network where this switch resides. The Glinic value is to be used for the clearing network identification code (CNIC) in the PH.

For any SMs with the GLISDNBASE software loadable package, this parameter must be in the range 0x0001 through 0x9999. For any SMs without the GLISDNBASE software loadable package, this parameter must be 0.

It should be noted that the INIC of an ISDN has no association with data network identification codes (DNICs) because DNICs do not identify ISDNs. This parameter should be populated only in all the ISDN SMs.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glinic.values: */
Glinic is_in {0x0000 thru 0x9999};
```

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```
/* RULE about Glinic: */
if ( Glinic != 0 ) then
begin
        find == 1 lpconf in RLlpconfig
        where ( lpconf.smconfig == Glconfigname &&
                lpconf.package == GLISDNBASE );
end
end
```

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# Gliniratfl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliniratfl | FP | DMcratfl |

### 1.1 Gliniratfl

Global Office Parameter Gliniratfl

### 1.2 Description

This global parameter indicates the option to be used when a centralized flexible rating/real-time rating system (CFR/RTRS) rating failure has occurred during the initial contact period of an automated coin toll service (ACTS) call. The value OA_ACTSANN means that an announcement will be given to the calling party. The value OA_ACTSOPR means that the call will be routed to an operator position.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** OA_ACTSANN

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = OA_ACTSANN;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Gliniratfl.values: */
if (current_pcr is_in sm_all) then
begin
        Gliniratfl is_in {OA_ACTSANN, OA_ACTSOPR};
end
```

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# Glinitimer

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glinitimer | FP | DMuns5 |

### 1.1 Glinitimer

Global Office Parameter Glinitimer

### 1.2 Description

This global parameter indicates (in half seconds) the length of the coin timeout interval to be used during initial contact with the customer. If a coin is not deposited by the customer within Glinitimer half-seconds, an initial contact timeout will occur and the customer will be given a prompt announcement.

```
NOTE: Glinitimer= 1 implies  0.5 seconds
        '       = 2   '      1.0 seconds
        .           .   .        .
        .           .   .        .
     Glinitimer=31 implies 15.5 seconds
```

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 11

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 11;
```

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glinitimer.values: */
if (current_pcr is_in { 1 thru 192 }) then
begin
        Glinitimer is_in {1 thru 31};
end
```

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# Glinpa

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glinpa | FR | DMchr8 |

### 1.1 Fullname:

Global Office Parameter Glinpa

### 1.2 Description:

Implied NPA (area code) of the office. The area code (NPA) chosen to be Glinpa should be the NPA most often implied by 7-digit calls received in this office. It is a legal area code, each digit being between '0' and '9' inclusive. It must be filled in. Glinpa is related to the RLnmimpdgts relation. In order to limit the number of tuples in the RLnmimpdgts relation, RLnmimpdgts is generally not populated with tuples for 7-digit calls whose implied NPA is the same as the Glinpa. Be aware that choosing a Glinpa which is not the most often implied npa for 7-digit calls will result in more tuples being populated in the RLnmimpdgts relation.

Occasionally customers may find a need to populate the RLnmimpdgts with the same implied NPA as the Glinpa. Again this results in more tuples being populated in the RLnmimpdgts relation.

***Type:*** DB8STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** "\0"

***AM Initial Value:*** "NULL"

***CMP Initial Value:*** "NULL"

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = "0";
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glinpa.values: */

        /* no check */ ;
```

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# Glintacmtr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glintacmtr | FR | DMuns13 |

### 1.1 Glintacmtr

Global Office Parameter Glintacmtr

### 1.2 Description

This global parameter specifies the time delay interval, in increments of milleseconds, between requesting that an address complete message (ACM) be sent, and the initial request to connect to an announcement circuit, automated position, or operator position. This timer is used for incoming SS7 signaled international calls to the OSPS.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1000

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e9.2 or 5e10.1 this parameter must be set to the value in bits 16- 31 in Gloff8.

***Default Rules:***
```
default = 1000;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glintacmtr.values: */
Glintacmtr is_in {0 thru 5000};
```

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# Glintanntr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glintanntr | FR | DMuns7 |

### 1.1 Glintanntr

Global Office Parameter Glintanntr

### 1.2 Description

This global parameter specifies the waiting time interval, in increments of tenths of seconds, before starting to outpulse International Format Called Number calls after the AT&T Thank You Branding announcement is requested to be played. The valid range is 0 thru 80 tenths of seconds, with a default of 80.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 80

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e9.1 or 5e9.2, this parameter must be set to the value in bits 7 - 13 in Gloff6.

***Default Rules:***
```
default = 80;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glintanntr.values: */
Glintanntr is_in {0 thru 80};
```

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# Glintctimer

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glintctimer | FP | DMuns5 |

### 1.1 Glintctimer

Global Office Parameter Glintctimer

### 1.2 Description

This global parameter indicates (in half seconds) the length of the intercoin timeout interval to be used between coin deposits. If a coin is not deposited by the customer within Glintctimer half-seconds, an intercoin timeout will occur and the customer will be given a prompt announcement.

```
Glintctimer=  1 implies  0.5 seconds
   '       =  2   '      1.0 seconds
   .          .   .        .
   .          .   .        .
Glintctimer= 31 implies 15.5 seconds
```

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 11

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 11;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glintctimer.values: */
if (current_pcr is_in { 1 thru 192 }) then
begin
        Glintctimer is_in {1 thru 31};
end
```

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# Glintl7sm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glintl7sm | FP | DMmodule |

### 1.1 Glintl7sm

Global Office Parameter Glintl7sm

### 1.2 Description

This global parameter indicates if this processor contains a direct interface with the international CCITT7 (Signaling system No. 7) transport hardware.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** If there is international CCITT7 in the office the value of this parameter depends on the transport hardware:
Glintl7sm must be set to indicate the SMs containing PSUs used for international CCITT7 transport. Glintl7sm is set to the SM number on any SM which contains a PSU that handles international CCITT7 transport. On these SMs, Glnatl7sm must be zero (0) since national and international CCITT7 signaling cannot exist on the same SM.

Certain transactions against Glintl7sm must be allowed or denied:

```
'Transaction: Change Glintl7sm from zero to x'
```

If all the requirements for changing the parameter Glglobalsm in SM 'x' from zero to 'x' are satisfied, then set Glintl7sm to 'x' on 'x'.

```
'Transaction: Change Glintl7sm from x to y'
```

This transaction applies when both 'x' and 'y' are non-zero. This request must be denied unconditionally.

```
'Transaction: Change Glintl7sm from x to zero'
```

If all the requirements for changing the parameter Glglobalsm in SM 'x' from 'x' to zero are satisfied, then set Glintl7sm to '0' on SM 'x'. Glintl7sm cannot be set to a non-zero value on SM 'x' if SM 'x' is an RSM (that is of type SM5RSM) unless the global parameter Glc7_rsm is set to DBYES. The type of SM 'x' can be read from RLmodatt.imtype. If Glc7_rsm is set to DBNO then if SM 'x' is of type SM5RSM, Glintl7sm can never be set to a non-zero value.

***Retrofit Rules:*** None.

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***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
for i in {1 thru 192}
begin
       if (Glintl7sm on sm(i) != 0) then
              pcrlist[Glintl7sm on sm(i)] = true;
end
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
       /* An SM can't have both CCITT7 international signaling and CCITT7
        * national signaling.
        */
       if (Glintl7sm != 0) then
       begin
               Glnatl7sm == 0;

               /* Verify that this international GSM is in RLgsm_opc. */
               find == 1 gsm_opc in RLgsm_opc
               where (gsm_opc.gsm == Glintl7sm);
       end
end
```

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# Glintlwt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glintlwt | FR | DMuns7 |

### 1.1 Glintlwt

International wait period for DIOR Sequence Call Enhancements

### 1.2 Description

This global parameter is used for the DIOR sequence call enhancements feature. This parameter is the amount of time to wait before playing a DIOR Sequence Call announcement on an international call. Currently, the default value is 60, with the capability of being changed to 1 - 120.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 60

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5e9_1 or 5e9_2: Bits 16 - 22 of Gloff2 must be copied to this global.

***Default Rules:***
```
default = 60;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glintlwt.values: */
Glintlwt is_in {1 thru 120};
```

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# Glintopcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glintopcnt | LR | DMshort |

### 1.1 Glintopcnt

Global Office Parameter Glintopcnt

### 1.2 Description

This global parameter stores the current internal operator id count for OSPS. It has the following relationship with the two relations INTOPID and OLOGINID:

#tuples (OLOGINID) + #tuples (INTOPID) = Glintopcnt

This parameter is incremented by RC when tuples are inserted into OLOGINID or INTOPID. It does not appear on a Recent Change view.

When the number of tuples in OLOGINID = 0, the tuples in INTOPID should be cleared and this parameter set equal to 0.

For new offices, this parameter should be equal to the number of tuples in OLONGID. For existing offices populated via off-line ODA process, this parameter should be equal to the sum of the tuples in relation OLONGID and the relation INTOPID.

This parameter must be zero unless there is at least one loaded SM in the office.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Import:***

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"smconf.R"

***Checks:***

```
/* RULE about Glintopcnt.values: */
Glintopcnt is_in {0 thru 16383};

/* RULE about Glintopcnt: */
if (Glintopcnt != 0) then
begin
        /* there exists at least one loaded SM in the office */
        PLSMCONF(GLOPSMDAAC) == true;
end
```

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# Glintrngto

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glintrngto | FR | DMuns7 |

### 1.1 Glintrngto

Global Office Parameter Glintrngto

### 1.2 Description

The global, Glintrngto, is used to specify the time (in seconds) to wait before giving VMS prompt treatment on international Ring/No Answer calls.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 36

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 36;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glintrngto.values: */
Glintrngto is_in {0 thru 120};
```

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# Glinttimer

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glinttimer | FR | DMuns7 |

### 1.1 Glinttimer

Global Office Parameter Glinttimer

### 1.2 Description

This global parameter specifies the waiting time interval, in increments of tenths of seconds, before starting to outpulse an international forward number call after the Announcement A1 is requested to be played. The valid range is 0 through 80 tenths of seconds, with a default of 80.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 80

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e10.1, this parameter must be set to the value in bits 25 - 31 in Gloff6.

***Default Rules:***
```
default = 80;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glinttimer.values: */
Glinttimer is_in {0 thru 80};
```

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# Glinwcrec

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glinwcrec | FR | DMctxt3 |

### 1.1 Glinwcrec

Global Office Parameter Glinwcrec

### 1.2 Description

This is the Inward Call Recording global parameter. When it is set, a Special Service Call AMA record is made for the inward call handled, either automatically or by an operator, by the OSPS. The value of the parameter is recorded in the Special Service Call AMA record in the Special Service Code field of that record. 'Inward call', in this case, means the call to the OSPS from an (that is, three ASCII NULLs). It should initially be set to the default by ODA, but eventually, the telephone company administrator for the site should set it to the 'Billing Code' that indicates an inward call has been served by an operator.

***Type:*** DB4STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** "\0"

***AM Initial Value:*** "NULL"

***CMP Initial Value:*** "NULL"

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = "000";
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glinwcrec.values: */
Glinwcrec == "" ||
Glinwcrec ~== "[0-9]*";
```

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# Glioaotdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glioaotdb | FP | DMshort |

### 1.1 Glioaotdb

Incremental value for number of RLoaotdb tuples.

### 1.2 Description

The Glioaotdb global parameter is used to increase the number of RLoaotdb tuples allocated in the SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** OAalo_coinot

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** A RC view per-SM field is required. This parameter is established via RC and is maintained across retrofits by ODA. For new offices, ODA must set this parameter to zero.

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glioaotdb */
if ((count({lpconf in RLlpconfig
         where(lpconf.smconfig == Glconfigname &&
               lpconf.package == GLOPSMOT)}) > 0) &&
        Glospsta == DBYES) then
begin
        Glioaotdb is_in {0 thru 24192};
```

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```
        /* Glioaotdb is_in {0 thru ($DBQNOAOTDB - $DBSFOAOTDB)}; */
end else begin
        Glioaotdb == 0;
end
end
```

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# Gliospcb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliospcb | FP | DMushort |

### 1.1 Gliospcb

Incremental value for number of Operating System for Distributed Switching (OSDS) Process Control Block (PCB) tuples

### 1.2 Description

The Gliospcb global parameter contains an SM's incremental rIOSPCB tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

Retrofit-ODA-Rules: not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Gliospcb.values */

if (current_pcr is_in sm_all) then
begin
        find == 1 modatt in RLmodatt
        where (modatt.module == current_pcr)
```

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```
        when_found
        begin
                if (modatt.unittype == SMSM2000) then
                begin
                        /* Gliospcb is_in {0 thru (AVMXOSPCB)}; */
                        Gliospcb is_in {0 thru 26000};
                end
                else
                begin
                        /* Gliospcb is_in {0 thru (AVMXOSPCB)}; */
                        Gliospcb is_in {0 thru 5000};
                end
        end
end
```

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# Gliostcb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliostcb | FP | DMushort |

### 1.1 Gliostcb

Incremental value for number of Operation System for Distributed Switching (OSDS) Timer Control Block (TCB) tuples

### 1.2 Description

The Gliostcb global parameter contains an SM's incremental rlOSTCB tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

Retrofit-ODA-Rules: not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Gliostcb.values */
if (current_pcr is_in sm_all) then
begin
        find == 1 modatt in RLmodatt
        where (modatt.module == current_pcr)
        when_found
```

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```
        begin
                if (modatt.unittype == SMSM2000) then
                begin
                        /* Gliostcb is_in {0 thru (AVMXOSTCB - AVMXOSPCB)}; */
                        Gliostcb is_in {0 thru (32765 - 26000)};
                end
                else
                begin
                        /* Gliostcb is_in {0 thru (AVMXOSTCB - AVMXOSPCB)}; */
                        Gliostcb is_in {0 thru (6300 - 5000)};
                end
        end
end
```

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# Glipcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glipcnt | LRFR | DMshort |

### 1.1 Glipcnt

Global Office Parameter Glipcnt

### 1.2 Description

Glipcnt contains a count of the number of IP trunk groups currently marked for measurement for Send To Outside Resource feature. A maximum of 25 IPs can be measured.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glipcnt.values: */
        let ipmeas_cnt = count {rt_trkg in RLrt_trkg
                                where (rt_trkg.stre_measure == DBYES)};
        ipmeas_cnt <= 25;
        ipmeas_cnt == Glipcnt;
        Glipcnt is_in {0 thru 25};
```

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# Gliphdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliphdb | FP | DMushort |

### 1.1 Gliphdb

Global Office Parameter Gliphdb - incremental path data block

### 1.2 Description

This global parameter contains an incremental count of the number of rlPHDB tuples to be added. It can be changed via RC, and is always initialized to 0. For SMs, this parameter will always be populated with 0. This value should remain intact during a Generic Retrofit.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** The value of this parameter can be increased or decreased by RC. It is increased, if necessary, when the customer sees a need to add more of this software resource to the already available resource based on the hardware. The value cannot be increased by more than 50 during each update.

***Retrofit Rules:*** On retrofit, preserve existing value.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gliphdb.values: */
        Gliphdb is_in { 0 thru ( 29700 - 3) / 2 };
/*      Gliphdb is_in { 0 thru ($DBQNPHDB - $DBSFPHDB) / 2 };*/
end
```

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# Gliphistor

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliphistor | FP | DMushort |

### 1.1 FGliphistor

Incremental value for number of Port Status History tuples

### 1.2 Description

The Gliphistor global parameter contains an SM's incremental rlPHISTORY tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gliphistor.values */

/* Gliphistor is_in {0 thru (DBQNPHISTO - DBSFPHISTO)}; */
Gliphistor is_in {0 thru (8191 - 0)};
```

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```
end
```

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# Gliptrdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliptrdb | FP | DMshort |

### 1.1 Gliptrdb

Incremental value for number of RLptrdb tuples

### 1.2 Description

The Gliptrdb global parameter is used to increase the number of RLptrdb tuples allocated in the SM. Its value is established via ODA or RC/V and is maintained over retrofits.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** OAalo_ptrdb

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required This parameter is populated on loaded SMs only; on other SMs it is always zero.

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gliptrdb */

if (Glospsta == DBYES) then
begin
        if ((count({lpconf in RLlpconfig
                  where(lpconf.smconfig == Glconfigname &&
```

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```
                        lpconf.package == GLOPSMAUTO)}) > 0) ||
           (count({lpconf in RLlpconfig
                 where(lpconf.smconfig == Glconfigname &&
        begin
                Gliptrdb is_in {0 thru 449};
                /* Gliptrdb is_in {0 thru ($DBQNPTRDB - $DBSFPTRDB)}; */
        end
        else
        begin
                Gliptrdb == 0;
        end
end
else

        Gliptrdb == 0;
end
end
```

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# Glipuentry

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glipuentry | FP | DMshort |

### 1.1 Glipuentry

Global Office Parameter Glipuentry - incremental pick up entry

### 1.2 Description

GLipuentry is the global parameter that is changeable via recent change (RC). The craft can add tuples by changing this value.

POPULATION: ODA will initialize to default value.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** A new RC and ODA per-sm field are required. For RC, the value cannot be increased by more than 50 during each update. A trigger function will create the added RLpu_entry tuples and link them to the idle list.

***Retrofit Rules:*** The value is preserved over a retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glipuentry.values: */
        Glipuentry is_in { 0 thru 2000 };
/*      Glipuentry is_in { 0 thru ($DBQNPU_ENT - $DBSFPU_ENT) };*/

end
```

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# Gliqrydb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliqrydb | FP | DMshort |

### 1.1 Gliqrydb

Incremental value for number of RLqrydb tuples

### 1.2 Description

The Gliqrydb global parameter is used to increase the number of RLqrydb tuples allocated in the SM. Its value is established via ODA or RC/V and is maintained over retrofits.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** OAalo_qrydb

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required. This parameter is populated on loaded SMs only; on other SMs it is always zero.

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gliqrydb */
if (Glospsta == DBYES) then
begin
        if ((count({lpconf in RLlpconfig
                  where(lpconf.smconfig == Glconfigname &&
                          lpconf.package == GLOPSMAUTO)}) > 0) ||
```

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```
           (count({lpconf in RLlpconfig
                 where(lpconf.smconfig == Glconfigname &&
                         lpconf.package == GLOPSMDAAC)}) > 0)) then
        begin
                Gliqrydb is_in {0 thru 449};
                /* Gliqrydb is_in {0 thru ($DBQNQRYDB - $DBSFQRYDB)}; */
        end
        else
        begin
                Gliqrydb == 0;
        end
end
else
begin
        Gliqrydb == 0;
end
end
```

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# Gliqv_stat

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliqv_stat | FP | DMushort |

### 1.1 Gliqv_stat

Per SM incremental value for the number of additional ACD/BRCS Queuing and Vectoring State tuples to be initialized

### 1.2 Description

The Gliqv_stat global parameter contains an SM's incremental rIQV_STATE tuple count. It is established by ODA and is changeable via Recent Change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** CDtriqvst

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA Rules:*** not applicable

***Retrofit Rules:*** /* See evolution rules in Gliqv_stat.V */

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Gliqv_stat.values */
if (current_pcr is_in sm_all) then
begin
        if (Gliqv_stat != 0) then
```

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```
        begin
                Glbrcsacd on cmp == DBYES;
                /* Gliqv_stat is_in {1 thru (DBQNQV_STA - DBSFQV_STA)}; */
                Gliqv_stat is_in {1 thru (16383 - 0)};
        end
end
```

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# Glircar

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glircar | FP | DMbcarid |

### 1.1 Glircar

Global Office Parameter Glircar defines: "db/DMcarr_val.h"

### 1.2 Description

Specifies the OSPS emergency default carrier identification number in binary format. Glircar is the carrier identifier for operator services dialing on emergency calls. This carrier is required for Inter-LATA OSPS emergency calls from dedicated Intra-LATA trunk groups. This carrier id must appear in the RLfc_carr relation which defines the routing information for this carrier. This parameter along with the information in RLfc_carr controls the routing used for emergency operator services dialing for toll and assistance operators on this OSPS switch. Glospsta

Please look in db/DMcarr_val.G for #defines used in this file.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10000

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** On the RC/ODA form, #NULL_BCARID is mapped to unknown.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = $NULL_BCARID;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parameters, so FP is specified */
/* here.  The group partitioning should be:               */
/*      RLdb_gpdus.grp_type = GPD_OSPS                    */
/*      RLdb_gpdus.grp_id   = 4                           */
pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***

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```
if (current_pcr is_in sm_all) then
begin
        /* RULE about Glircar.values: */
        Glircar is_in {0 thru $FGDMAXBCAR, $NULL_BCARID};

        /* RULE about Glircar: */

        /*
        * This parameter is required in OSPS T&A offices.
        */
        if (Glospsta == DBYES) then
        begin
                Glircar != $NULL_BCARID;   /* 9.1 */
        end
        if (Glircar != $NULL_BCARID) then
        begin
                let str() = itoa(Glircar);
                let len() = 4 - length(str());
                let carr() = (len() == 0) ? str() :
                                strcat(substr("0000", 0, len()), str());

                find == 1 fc_carr in RLfc_carr
                where (fc_carr.carrid == carr());   /* 9.1 */
        end
end
```

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# Glirtlb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glirtlb | FP | DMshort |

### 1.1 Glirtlb

Incremental value for the number of Remote Terminal Linkage block (rlRTLB) tuples

### 1.2 Description

The Glirtlb global parameter contains an SM's incremental rlRTLB tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** TMi_trig

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glirtlb.values */
```

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```
if (Glirtlb != 0) then
begin
        find == 1 lpconf in RLlpconfig
        where ((lpconf.smconfig == Glconfigname) &&
               ((lpconf.package == GLID303APP) ||
                (lpconf.package == GLISDNBASE)))
        when_found
        begin
/*              Glirtlb is_in {1 thru (DBQNRTLB - DBSFRTLB)}; */
                Glirtlb is_in {1 thru (511 - 0)};
        end
end
end
```

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# Glirtmsgbuf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glirtmsgbuf | FP | DMshort |

### 1.1 Glirtmsgbuf

Incremental value for the number of Remote Terminal Message Buffer (rlRTMSGBUF) tuples

### 1.2 Description

The Glirtmsgbuf global parameter contains an SM's incremental rlRTMSGBUF tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** TMi_trig

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glirtmsgbuf.values */
if (Glirtmsgbuf != 0) then
```

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```
begin
        find == 1 lpconf in RLlpconfig
        where ((lpconf.smconfig == Glconfigname) &&
               ((lpconf.package == GLID303APP) ||
                (lpconf.package == GLISDNBASE)))
        when_found
        begin
/*              Glirtmsgbuf is_in {1 thru (DBQNRTMSGBUF - DBSFRTMSGBUF)}; */
                Glirtmsgbuf is_in {1 thru (2047 - 0)};
        end
end
end
```

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# Glis_line

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glis_line | FP | DMushort |

### 1.1 Fullname:

ISDN Digital Subscriber Line Logical Terminations

### 1.2 Description:

The Glis_line global parameter contains an SM's count of rlIS_LINE tuples. Its value is maintained over all initializations and updated via trigger functions as rlIS_LINE tuples are inserted or deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as rlIS_LINE tuples are inserted or deleted. It will never be decreased.

***Retrofit-ODA Rules:*** Not applicable

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glis_line.values: */

Glis_line is_in {0 thru 28800};


/* RULE about Glis_line: */
```

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```
      Glis_line == count { is_line in RLis_line };  /* line growth */

end
```

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# Glisbrppmw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glisbrppmw | FR | DMshort |

### 1.1 Glisbrppmw

Global Office Parameter Glisbrppmw

### 1.2 Description

This global parameter contains the ISLU battery reversal PPM pulse width. This parameter must have a valid nonzero value before assigning ISLU battery reversal PPM, LPISBR_PPM, to a line. Glisbrppwm is specified in milliseconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glisbrppmw.values: */
        /* no check */ ;
```

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# Gliscmdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliscmdb | FP | DMushort |

### 1.1 Gliscmdb

Incremental value for number of Shared Call Model Data Block tuples

### 1.2 Description

The Gliscmdb global parameter contains an SM's incremental rlSCMDB tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** FCiscmtr

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gliscmdb.values */
if (Gliscmdb != 0) then
```

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```
begin
        find > 0 lpconf in RLlpconfig
        where ((lpconf.smconfig == Glconfigname) &&
               (lpconf.package is_in {GLASHDN, GLISDNBRCS}))
        when_found
        begin
                /* Gliscmdb is_in {1 thru (DBQNSCMDB - DBSFSCMDB)}; */
                Gliscmdb is_in {1 thru (28800 - 0)};
        end
end
end
```

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# Glisdam

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glisdam | FR | DMbool |

### 1.1 Glisdam

Global Office Parameter Glisdam

### 1.2 Description

This global parameter specifies office option for AMA recording for ISDN circuit switched data (CSD) calls. DBYES, a standard data module with data for bearer capabilities, network interworking, release cause indicator, and/or signaling/supplementary services must be appended to a regular AMA record.

Set to DBNO, if existing 5E3 implementation of AMA call codes and structure codes for CSD calls will be used. Set to DBYES, if existing voice call codes and structure codes will be used for the CSD call. In either case, an EBAF data module must be appended to the structure code to be used. The data module is AAA if a signaling/supplementary service is used in the call; otherwise, it is module BBB.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBYES;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glisdam.values: */
        /* no check */ ;
```

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# Glisdap

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glisdap | FP | DMshort |

### 1.1 Glisdap

Incremental value for number of RLsdap_sdl tuples

### 1.2 Description

The Glisdap global parameter is used to increase the number of RLsdap_sdl tuples allocated in the SM. Its value is established via RC/V and is maintained by ODA over retrofits.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** OAalo_sdap

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

ODA: set to 0 for new offices.

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glisdap */
if (Glospsta == DBYES) then
begin
        if ((count({lpconf in RLlpconfig
                 where(lpconf.smconfig == Glconfigname &&
```

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```
                    lpconf.package == GLOPSMOT)})> 0) ||
           (count({lpconf in RLlpconfig
                 where(lpconf.smconfig == Glconfigname &&
                     lpconf.package == GLOPSMAUTO)}) > 0) ||
           (count({lpconf in RLlpconfig
                 where(lpconf.smconfig == Glconfigname &&
                     lpconf.package == GLOPSMDAAC)}) > 0)) then
        begin
                Glisdap is_in {0 thru 32};
        end
        else
        begin
                Glisdap == 0;
        end
end
else
begin
       Glisdap == 0;
end
end
```

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# Glisdnphs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glisdnphs | LP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glisdnphs (ISDN Protocol Handlers)

### 1.2 Description:

The global parameter Glisdnphs contains the number of isdn protocol handlers in the office. This global parameter is used by the measurements application.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** RC/V and ODA will update this global parameter if ISDN protocol handlers are added or removed in the office. Hence, Glisdnphs will always reflect the number of isdn protocol handlers in the office.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        pcrlist[193] = true;
```

***Checks:***
```
/* RULE about Glisdnphs: */
function phcnt() returning int
begin
        cnt=0;  /* no isdn ph's have been found yet. */
        for modatt in RLmodatt
        begin
           if (modatt.module is_in sm_all) then
           begin
                for dslgdata in RLdslgdata on modatt.module
                begin
                        if (dslgdata.dsltype == PS_DPRI ||
                            dslgdata.dsltype == PS_DSLG ||
```

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```
                            dslgdata.dsltype == PS_ISM ||
                            dslgdata.dsltype == PS_TRK ||
                            dslgdata.dsltype == PS_X75P ||
                            dslgdata.dsltype == PS_X75) then
                        begin
                                cnt = cnt + 1;
                        end
                end
           end
        end
        return cnt;
end

Glisdnphs on am == phcnt();
```

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# Glislu2cap

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glislu2cap | FR | DMbool |

### 1.1 Glislu2cap

ISLU2/AIU capacitor usage

### 1.2 Description

This global parameter is used to indicate whether the ISLU2/AIU MTB capacitor should be included in the line test path. The capacitor may be included in the path for compatibility with non-integrated Mechanized Loop Test Systems. Including the capacitor degrades the measurement accuracy of other test systems. DBYES indicates the capacitor should be included in the measurements, DBNO indicates the capacitor should not be included in the line test path.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** ---

***SM Initial Value:*** DBYES

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global is not supported by Recent Change. ODA will default it to DBYES. This global can be changed using ODBE. It will be applicable to both ISLU2 and AIU units.

***Retrofit Rules:*** none

***Default Rules:***

```
default = DBYES ;
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
        Glislu2cap is_in {DBYES, DBNO};
```

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# Glislucnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glislucnt | FP | DMshort |

### 1.1 Glislucnt

ISLU2 unit count

### 1.2 Description

This global parameter is used to restrict the number of ISLU2 units on an SM-2000. It contains the numeric value of the total number of ISLU2s for an SM-2000. This parameter will not be populated for an SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Glislucnt must be maintained as ISLU2 units are grown and degrown from an SM-2000. This parameter should not be maintained for an SM.

***Retrofit Rules:*** This value should remain intact during a Generic Retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
        find == 1 modatt in RLmodatt
        where (modatt.module == current_pcr)
        when_found
        begin
                if (modatt.unittype == SMSM2000) then
                begin
                        /* THIS CHECK CAUSES A LINEAR SEARCH OF RC_EQLOC,
                         * SO LEAVE IT COMMENTED OUT UNTIL A BETTER WAY TO
                         *
```

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```
                        * Glislucnt == count { rc_eqloc in RLrc_eqloc
                         *         where ((rc_eqloc.im == current_pcr) &&
                         *                (rc_eqloc.unittype == SMISLU2) &&

                         *               (rc_eqloc.service_group == 0))};
                        */

                       Glislucnt is_in {0 thru 27};
               end
               else
               begin
                       Glislucnt == 0;
               end
       end
end
```

# Glisrvot

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glisrvot | FP | DMshort |

### 1.1 Glisrvot

Incremental value for number of RLsrvot tuples

### 1.2 Description

The Glisrvot global parameter is used to increase the number of RLsrvot tuples allocated in the SM. Its value is established via ODA or RC/V and is maintained over retrofits.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** OAalo_srvot

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required. This parameter is populated on OSPS SMs only; on other SMs it is always zero.

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
/* RULE about Glisrvot */
if (Glospson == DBYES || Glospsta == DBYES) then
begin
        if ((count({lpconf in RLlpconfig
                where(lpconf.smconfig == Glconfigname &&
                    lpconf.package == GLOPSMOT)}) > 0) ||
            (count({lpconf in RLlpconfig
```

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```
                where(lpconf.smconfig == Glconfigname &&
                    lpconf.package == GLOPSMAUTO)}) > 0) ||
            (count({lpconf in RLlpconfig
                where(lpconf.smconfig == Glconfigname &&
                    lpconf.package == GLOPSMDAAC)}) > 0)) then
        begin
                Glisrvot is_in {0 thru 24192};
                /* Glisrvot is_in {0 thru ($DBQNSRVOT - $DBSFSRVOT)}; */
        end
        else
        begin
                Glisrvot == 0;
        end
end
else
begin
        Glisrvot == 0;
end
end
```

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# Glistflb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glistflb | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glistflb

### 1.2 Description:

This global parameter is initialized because Glistflb contains the total number of Integrated Service loopback test channel circuits in an SM. This count includes the loopback test channel circuits on ISTF, as well as on GDSF units.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** ---

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
            pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
/* runslow added due to linear search of CKTDATA and excessive cpu usage */
if (runslow) then
begin

if (current_pcr is_in sm_all) then
begin
/* RULE about Glistflb.values:
 * The loopback test channel circuits on ISTF are defined in lb_cnt
 * field of RListf relation.
```

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```
 * The loopback test channel circuits on GDSF are defined as
 * PCISTFLB ckttype in RLcktdata and the number of PCISTFLB on
 * GDSF depends on the GDSF configuration.
 */

Glistflb == sum RListf.lb_cnt +
            count { lb_ckt in RLcktdata where
                                        (lb_ckt.type == PCISTFLB)};

end
end
```

# Glistfxmit

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glistfxmit | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glistfxmit

### 1.2 Description:

The global paramert Glistfxmit contains the total number of Integrated Service transmission test channel circuits in an SM. This count includes the transmission test channel circuits on ISTF, as well as on GDSF units.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** ---

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
            pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
/* runslow added due to linear search of CKTDATA and excessive
 * cpu usage */
if (runslow) then
begin

if (current_pcr is_in sm_all) then
begin
/*RULE about Glistfxmit.values:
 * The transmission test channel circuits on ISTF are defined in
```

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```
 * xmit_cnt field of RListf relation.
 * The transmission test channel circuits on GDSF are defined as
 * PCISTFXMIT ckttype in RLcktdata and the number of PCISTFXMIT
 * on GDSF depends on the GDSF configuration.
 */

Glistfxmit == sum RListf.xmit_cnt +
              count { xmit_ckt in RLcktdata where(xmit_ckt.type ==
                          PCISTFXMIT)};

end
end
```

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# Glistnppmw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glistnppmw | FR | DMshort |

### 1.1 Glistnppmw

Global Office Parameter Glistnppmw

### 1.2 Description

This global parameter contains the ISLU tone PPM ( 12 and 16 Khz) pulse width. This parameter must have a valid nonzero value before assigning ISLU tone PPM, LPISTN_PPM, to a line. Glistnppmw is specified in milliseconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glistnppmw.values: */
        /* no check */ ;
```

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# Glistwppmw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glistwppmw | FR | DMshort |

### 1.1 Glistwppmw

Global Office Parameter Glistwppmw

### 1.2 Description

This global parameter contains the ISLU third wire applique PPM pulse width. This parameter must have a valid nonzero value before assigning ISLU third wire applique PPM, LPISTW_PPM, to a line.

Glistwppmw is specified in milliseconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glistwppmw.values: */
        /* no check */ ;
```

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# Glisudb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glisudb | FP | DMushort |

### 1.1 Glisudb

WCTX incremental SUDB data block

### 1.2 Description

Incremental value of global parameter Glsudb.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** PCSisudbtr

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is fully supported by RC.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit Rules:***

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
     ;
```

***Import:***
```
usp5defs.R,
chk_apperm.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glisudb.values: */
if (c_aperm(PVMSKWNC,CONFIGMAX) == true) then
```

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```
begin
/* Glisudb is_in {0 thru (DBQNSUDB - Glsudb)} && 0 <= (DBQNSUDB - Glsudb); */
/* Glisudb is_in {0 thru (DBQNSUDB - Glsudb)}; */
   Glisudb is_in {0 thru (1024 - Glsudb)};
end
else
begin
        Glisudb == 0;
end
end
```

# Glisupequp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glisupequp | FP | DMcount |

### 1.1 Fullname:

Global Office Parameter Glisupequp

### 1.2 Description:

This global parameter indicates the number of ISUP trunks.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** CCisup_trig,

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Glisupequp must be updated by RC when ISUP signaling trunks are inserted or deleted from RLrt_trkg. This parameter is used by CCS MTP level 3 for signaling network management. The trigger informs the STRM system process in the SM when the number of ISUP trunks has changed.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* FP */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/*
 * This rule is required to determine how many
 * ISUP trunk members that this GSM is signaling for.
 * Glisupequp is set to the number of trunk
 * members with ISUP signaling.
 */

function isup_cnt(int pcr) returning int
```

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```
begin
        result = 0;
        for gsm_opc in RLgsm_opc
        where (gsm_opc.gsm == pcr)
        begin
                for rt_trkg in RLrt_trkg
                if ((rt_trkg.opc == gsm_opc.opc) &&
                        (rt_trkg.in_sigtype is_in {DBISUP7})) then
                        begin
                                result = result + rt_trkg.act_size;
                        end
        end
        return result;
end

if (current_pcr is_in sm_all) then
begin
        Glisupequp == isup_cnt(current_pcr);
end
```

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# Glisuptk_cnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glisuptk_cnt | FP | DMushort |

### 1.1 Glisuptk_cnt

Global parameter for ISUP7 ports

### 1.2 Description:

Glisuptk_cnt contains the number of RLfc_trunk tuples where RLfc_trunk.in_sigtype equals DBISUP7. This value is used to determine the appropriate number of RLccsstpdb tuples to allocate in each SM. The relationship between the value of Glisuptk_cnt and the number of RLccsstpdb tuples is built into software. A summary of this logic follows:

RLccsstpdb tuples are only used for some incoming ISUP7 calls, so none are needed for 1-way outgoing ISUP7 trunks.

When no ISUP7 trunks exist in an SM, no RLccsstpdb tuples are allocated. For Glisuptk_cnt with a value between 1 and 32, 10 RLccsstpdb tuples are allocated. For Glisuptk_cnt larger than 32, 1 RLccsstpdb tuple is allocated for every 3 trunks beyond 32. This is summarized in the following chart.

```
RLccsstpdb

Glisuptk_cnt    tuples

-------------   ----------

1 - 32          10

33-35           11

36-38           12

etc
```

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

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***Retrofit Rules:*** For retrofit from an earlier release to 5E9, Glisuptk_cnt must be populated with the number of incoming ISUP7 (that is, trunks where RLfc_trunk.in_sigtype = DBISUP7) trunks in the SM. The algorithm for doing this is shown in the checks section of this population rule file.

For retrofit from 5E9 to a later release, the value of Glisuptk_cnt can be discarded and recomputed using the algorithm shown in the checks section of this population rule file.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

        /* RULE about Glisuptk_cnt.values: */
        if (Glconfigname == CNFG2K00) then
        begin
                Glisuptk_cnt is_in {0 thru 24192};
                /* AVSMDTRUNKS_ASM2K() */
        end
        else
        begin
                Glisuptk_cnt is_in {0 thru 480};
                /* AVSMDTRUNKS_ASM() */
        end

        /* RULE about Glisuptk_cnt: */
        function func() returning boolean
        begin
                isuptk_cnt = 0;
                /* Count the number of trunks which use incoming ISUP7
                * signaling.
                */
                for fc_trunk in RLfc_trunk on sm(Gl_pcrid)
                begin
                        if (fc_trunk.in_sigtype == DBISUP7) then
                        begin
                                isuptk_cnt = isuptk_cnt + 1;
                        end
                end
                /* The global parameter Glisuptk_cnt must equal the number
                * of trunks which use incoming ISUP7 signaling.
                */
                assert(Glisuptk_cnt == isuptk_cnt);
                return true;
        end
        func();
end
```

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# Glisvam

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glisvam | FR | DMbool |

### 1.1 Glisvam

Global Office Parameter Glisvam

### 1.2 Description

This global parameter specifies office option for AMA recording for ISDN circuit switched voice calls.

Set to DBYES. This means that either module AAA or BBB is always appended to an existing voice structure code, depending upon whether a signaling/supplementary service is used in the call.

Set to DBNO. No data module will be appended unless a signaling/supplementary service is used, in which case module AAA will be used.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glisvam.values: */
        /* no check */ ;
```

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# Glitatdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glitatdb | FP | DMushort |

### 1.1 Glitatdb

Incremental value for number of Terminating Attempts Trigger Data Block tuples

### 1.2 Description

The Glitatdb global parameter contains an SM's incremental rlTATDB tuple count. It is established by ODA and is changeable via recent change. The craft can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** FCtritatdb

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA-Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glitatdb.values */
if (Glitatdb != 0) then
```

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```
begin
        Glpvn_ofc == DBPVN_SSP || Glssp == DBYES;
        /*
        * The direct signalling application must be populated with
        * AINR0D1 when the TATDB incremental parameter
        * is incremented.
        */
        find == 1 ds_app in RLds_app
        where ( ds_app.ds_type == CCAINR01 );

        /* Glitatdb is_in {1 thru (DBQNTATDB - DBSFTATDB)}; */
        Glitatdb is_in {1 thru (546 - 0)};
end
end
```

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# Glitn_info

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glitn_info | FP | DMushort |

### 1.1 Glitn_info

Incremental value for number of Advancd Services Platform Termination Notification Information Data Block tuples

### 1.2 Description

The Glitn_info global parameter contains an SM's incremental rlTN_INFO tuple count. It is established by ODA and is changeable via recent change. The switch personnel can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** FCtritn_info

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** An RC view and ODA form per-SM field are required.

RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit-ODA Rules:*** not applicable

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
chk_apperm.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
```

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```
/* RULE about Glitn_info.values */

if (Glitn_info != 0) then
begin
        /* Direct signaling does not apply to wireless so
         * don't do this check */
        if (c_aperm(PVMSKWNC, CONFIGMAX) == false ) then
        /* Non-WNC office */

        begin
                /* The application must be set to CCPVN or CCAINR0, which
                 * indicates the ASP dynamic relations have been initialized,
                 * before additional tuples can be added
                 */
                let PVNCOUNT = count { ds_app in RLds_app
                 where (ds_app.ds_type == CCPVN)};
                let AINR0COUNT = count { ds_app in RLds_app
                 where (ds_app.ds_type == CCAINR01)};
                PVNCOUNT == 1 || AINR0COUNT == 1;
        end

        Glpvn_ofc == DBPVN_SSP || Glssp == DBYES;
        /* Glitn_info is_in {1 thru (DBQNTN_INF - DBSFTN_INF)}; */
        Glitn_info is_in {1 thru (17111 - 0)};
end
end
```

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# Glitnfw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glitnfw | FR | DMhex32 |

### 1.1 Glitnfw

Global Office Parameter Glitnfw

### 1.2 Description

This global is used to activate the improved third number acceptance (ITNA) feature processing. Glitnfw has the following meaning: if 0, ITNA processing is off; if 1, ITNA processing is on and all calls become eligible for ITNA treatment; if greater than one, ITNA processing is in the test mode. When Glitnfw is greater than one, the value is cast to the domain DMGPORT, which is the port number and the module number (SM) of a test trunk for the ITNA feature. Only calls on this test trunk are eligible for ITNA treatment. Note ODA only supports the zero and one values. RC supports the zero (0) and one (1) values plus the values for test trunks specification.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glitnfw.values: */
Glitnfw is_in {0 thru 0xFFFFFFFF};
```

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# Glitxn_inf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glitxn_inf | FP | DMushort |

### 1.1 Fullname:

Incremental value for number of rlTXN_INFO tuples

### 1.2 Description:

This global parameter records the incremental count of rlTXN_INFO tuples on an SM. It is established by ODA and is changeable via recent change. The switch personnel can add tuples by increasing this value. A trigger function inserts the additional tuples and links them to the idle list.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** FCtritxnif,

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global parameter is fully supported by RC via view 8.40. The initial value of this parameter is established by ODA. If SFID 507 is not active, Glitxn_inf must equal 0.
RC ONLY: This value cannot be changed by more than 50 during each update.

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glitxn_inf.values */
if (current_pcr is_in sm_all) then
begin
      if (Glitxn_inf != 0) then
      begin

            Glpvn_ofc == DBPVN_SSP;
```

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```
            /*
             * The direct signaling application must be populated
             * with AINROD1 when the txn_info incremental parameter
             * is incremented.
             */
             find == 1 ds_app in RLds_app
             where (ds_app.ds_type == CCAINR01);

             /* Glitxn_inf is_in {0 thru
                                  (DBQNTXN_INF - DBSFTXN_INF)} */
              Glitxn_inf is_in {0 thru (65000 - 0)};
      end
end
```

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# Gliuninatt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliuninatt | FR | DMshort |

### 1.1 Gliuninatt

Global Office Parameter Gliuninatt

### 1.2 Description

This global parameter specifies the number of times International CCITT7 Signaling Traffic and Route Management operational code will attempt to inhibit or uninhibit a link.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** None.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 2;
```

***Distribution Rules:***
```
/* Standard */
```

***Checks:***
```
if (Glnum_intl7 == 0) then
begin
        Gliuninatt == 2;
end

/* range check */
Gliuninatt is_in {1 thru 6};
```

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# Glivion

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glivion | FP | DMbool |

### 1.1 Glivion

Inward Validation ID (IVI) feature activation parameter

### 1.2 Description

This global parameter shall be used to activate/deactivate the Customer Account Services (CAS) IVI feature. DBYES indicates the feature is activated, DBNO indicates the feature is not activated. Glcas3

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parameters, so FP is specified  */
/* here.  The group partitioning should be:                */
/*      RLdb_gpdus.grp_type = GPD_OSPS                     */
/*      RLdb_gpdus.grp_id   = 3                            */
pcrlist = get_gpd_pcrlist (GPD_OSPS,3);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glivion.values: */
        /* no check */ ;
```

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```
/* RULE about Glivion: */
/* There shall be a crosscheck to ensure that Glcas3 is DBYES */
/*  before this feature is activated                           */
if (Glivion == DBYES) then
begin
        Glcas3 == DBYES;
end
end
```

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# Glivl_mdii

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glivl_mdii | FR | DMuns7 |

### 1.1 Glivl_mdii

Global Office Parameter Glivl_mdii

### 1.2 Description

Specifies the time interval in minutes to be used to count machine detected interoffice irregularities (mdii) to determine if an alarm should be generated. A value of 0 indicates that an alarm will not be generated.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glivl_mdii.values: */
        /* no check */ ;
```

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# Gliw_indet

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliw_indet | FP | DMbool |

### 1.1 Gliw_indet

International inward BNS indeterminate treatment

### 1.2 Description

This global parameter determines the treatment to be provided when the automated international inward Billed Number Screening reply is indeterminate. To provide deny treatment on inward BNS indeterminate replies, set this parameter to DBYES. Otherwise, allow treatment will be provided to the international operator on indeterminate replies.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** For the retrofit from 5e8 to 5e9, Gliw_indet should be set to DBNO if bit 8 of Gloff1 (in 5e8) is 0, or set to DBYES if bit 8 of Gloff1 is 1.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot  */
/* be specified for global parameters, so FP is specified  */
/* here. The group partitioning should be:                 */
/*      RLdb_gpdus.grp_type = GPD_OSPS                     */
/*      RLdb_gpdus.grp_id = 4                              */

pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
"PLgpd_defs.R"
```

***Checks:***
```
/* RULE about Gliw_indet.values: */
```

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```
        /* no check */ ;
```

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# Gliwlec

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gliwlec | FR | DMbool |

### 1.1 Gliwlec

ISUP Interworking LEC Announcement Indicator (Gliwlec)

### 1.2 Description

Gliwlec is used to control if tone/announcement is applied to a call with bearer capability of `3.1kHz audio' or `speech' after certain failure events occur on an ISUP7 trunk in the LEC network. This only applies to non-ISDN access calls which have not used ISUP7 trunks all the way (IAM.FCI.isdn_access=0 & IAM.FCI.isup=0).

It does not apply to the following failure events:

```
unallocated number (1)
user busy (17)
no user responding (18)
call rejected (21)
number changed (22)
destination out of order (27)
bearer capability not implemented (65)
```

If a failure event other than what is listed above occurs, the switch software must determine whether to

```
(1) send a Release Message or
(2) provide an appropriate tone or announcement.
```

The value of this parameter should be optioned by the customer to one of the values below.

```
DBYES:  A Release Message should be sent to the preceding exchange.
DBNO:   A tone/announcement should be provided to the preceding exchange.
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

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***Distribution Rules:***
standard

***Checks:***
```
/* RULE about Gliwlec.values: */
        /* no check */ ;
```

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# Glixdpc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glixdpc | FP | DMshort |

### 1.1 Fullname:

Global Office Parameter Glixdpc

**Defines:**
db/RLxdpcstat.h

### 1.2 Description:

This global parameter contains the incremental number of RLxdpcstat tuples to be inserted (from RC SREINCR view).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** CCixdpc,

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***

***Retrofit Rules:***

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for gsm_opc in RLgsm_opc
        begin
                pcrlist[gsm_opc.gsm] = true;
        end
```

***Checks:***
```
/* RLxdpcstat tuples should only exist on global SMs */

if (Gl_pcrid == Glglobalsm) then
begin
        /* The incremental number of RLxdpcstat tuples
```

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```
         * cannot cause the total number to exceed the
         * maximum possible number of tuples in RLxdpcstat.
         */
        Glixdpc < ($DBQNXDPCSTAT - $DBSFXDPCSTAT - 1) - Glxdpc;
end

else
begin
        Glixdpc == 0;
end
```

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# Glixlist

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glixlist | FP | DMshort |

### 1.1 Fullname:

Global Office Parameter Glixlist

**Defines:**
db/RLxlist.h

### 1.2 Description:

This global parameter contains the incremental number of RLxlist tuples to be inserted (from RC SREINCR view).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** CCixlist,

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***

***Retrofit Rules:***

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for gsm_opc in RLgsm_opc
        begin
                pcrlist[gsm_opc.gsm] = true;
        end
```

***Checks:***
```
/* RLxlist tuples should only exist on global SMs */
if (Gl_pcrid == Glglobalsm) then
begin
        /* The incremental number of RLxlist tuples
         * cannot cause the total to exceed the
         * maximum possible number of tuples in RLxlist
```

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```
         */
        Glixlist < (($DBQNXLIST - $DBSFXLIST) - Glxlist);
end

else
begin
        Glixlist == 0;
end
```

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## 3.21 Glj

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# Gljip

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gljip | FR | DMchar6 |

### 1.1 Gljip

Global Office Parameter Gljip

### 1.2 Description

Contains the 6-digit Jurisdiction Information Parameter.

***Type:*** DB8STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** "\0"

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** The Gljip global parameter may only be set if SFID174 has been unlocked. Also, the ASP Release 0.1 secured feature SFID126 must be unlocked before the LNP feature SFID174 is unlocked.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = "\0";
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* no checks */ ;
```

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## 3.22 GII

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# Gllac_thr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllac_thr | FR | DMuns4 |

### 1.1 Gllac_thr

Global Office Parameter Gllac_thr

### 1.2 Description

The global, Gllac_thr, is used to specify the maximum number of times the language can be changed through the use of a Language Access Code.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 2;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gllac_thr.values: */

        /* no check */ ;
```

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# Gllata_num

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllata_num | LRFR | DMilata |

### 1.1 Gllata_num

Global Office Parameter Gllata_num

### 1.2 Description

This parameter is used to indicate the Local Access and Transport Area (LATA) number for this office. This parameter is required if the office is an SSP office, if the global parameter Glssp is DBYES.

***Type :*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gllata_num.values: */

Gllata_num is_in {0,100 thru 999};
```

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# Gllatac

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllatac | FR | DMbool |

### 1.1 Gllatac

Global Office Parameter Gllatac

### 1.2 Description

This parameter specifies whether the Calling Party Number (CPN) across the LATA boundary will be accepted as a screening DN for 5E6(1) LASS features: SCA/CAR, SCF, SCR, and SDA.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gllatac.values: */

        /* no check */ ;
```

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# Gllatacnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllatacnt | LP | DMuchar |

### 1.1 Gllatacnt

Global Office Parameter Lata Count

### 1.2 Description

This AM global parameter contains the AM's current RLmlt_lata tuple count. It is incremented as tuples are inserted and decremented as tuples are deleted.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** None

***Retrofit Rules:*** None

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */

;
```

***Checks:***
```
/* RULE about Gllatacnt: */

        Gllatacnt on am is_in {0 thru 28};
        Gllatacnt on am == count {mlt_lata in RLmlt_lata};
```

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# Gllatiablf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllatiablf | FP | DMuns8 |

### 1.1 Gllatiablf

Global Office Parameter Gllatiablf

### 1.2 Description

This parameter is used to count how many RLIS_TERM tuples have RLIS_TERM.latidx assigned some non_zero values in each SM.

For ODA, count all RLIS_TERM tuples with a non_zero value of RLIS_TERM.latidx per SM. If no tuples are found, set to default value of 0.

For RC and ODBE, if a RLIS_TERM tuple with a non_zero value of RLIS_TERM.latidx assigned is added or a RLIS_TERM tuple with zero value of RLIS_TERM.latidx changed to a non_zero value of RLIS_TERM, this Gllatiablf will be incremented by one. Each time a RLIS_TERM tuple with a non_zero value of RLIS_TERM.latidx assigned is deleted or its RLIS_TERM.latidx value gets changed to zero, this Gllatiablf will be decremented by one.

***Type :*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
```

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```
/* RULE about Gllatiablf.values: */

Gllatiablf is_in {0 thru 255};

end
```

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# Gllb_ltp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllb_ltp | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Gllb_ltp

### 1.2 Description:

The global parameter Gllb_ltp contains the total number of logical test ports for Integrated Service loopback test in an SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** ---

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
/*RULE about Gllb_ltp.values: */

/* runslow added due to linear search of FC_PORTTYP and excessive
 * cpu usage */
if (runslow) then
begin
```

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```
Gllb_ltp == count { lb_ltp in RLfc_porttyp
                where( lb_ltp.port.module == Gl_pcrid &&
                       lb_ltp.servclass == TM_ISTFLB ) };
end

/* the total number of logical test ports should not be
 * greater than the total number of the channel circuits.
 */
Gllb_ltp <= Glistflb;

end
```

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# Gllbnsalmthr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllbnsalmthr | LR | DMuns7 |

### 1.1 Gllbnsalmthr

Global Office Parameter Gllbnsalmthr

### 1.2 Description

LIDB BNS software alarm threshold, which is a value for the successful query percentage. If the percentage falls under this threshold, an alarm is activated.

Default is 95.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 95

***CMP Initial Value:*** 95

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 95;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gllbnsalmthr.values: */

Gllbnsalmthr is_in {0 thru 100};
```

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# Gllbnsminqry

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllbnsminqry | LR | DMuns7 |

### 1.1 Gllbnsminqry

Global Office Parameter Gllbnsminqry

### 1.2 Description

LIDB Minimum BNS query attempts required in a quarter hour before LIDB BNS query software alarm calculations will be performed.

Default value is 40.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 40

***CMP Initial Value:*** 40

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 40;
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gllbnsminqry.values: */

Gllbnsminqry is_in {1 thru 64};
```

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# Gllccdalmthr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllccdalmthr | LR | DMuns7 |

### 1.1 Gllccdalmthr

Global Office Parameter Gllccdalmthr

### 1.2 Description

LIDB Calling card software alarm threshold, which is a value for the successful query percentage. If the percentage falls under this threshold, an alarm is activated.

Default is 95.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 95

***CMP Initial Value:*** 95

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 95;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gllccdalmthr.values: */

Gllccdalmthr is_in {0 thru 100};
```

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# Gllccdminqry

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllccdminqry | LR | DMuns7 |

### 1.1 Gllccdminqry

Global Office Parameter Gllccdminqry

### 1.2 Description

LIDB Minimum calling card query attempts required in a quarter hour before LIDB calling card software alarm calculations will be performed.

Default is 40.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 40

***CMP Initial Value:*** 40

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 40;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gllccdminqry.values: */

Gllccdminqry is_in {1 thru 64};
```

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# Gllcfg_time

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllcfg_time | FP | DMsecond |

### 1.1 Gllcfg_time

Global Office Parameter Gllcfg_time

### 1.2 Description

Line clear forward guarding timer. This timing is used to limit the listening time for a tone on a subscriber line or at the end of a call to wait for disconnect of the subscriber before the line is put high and wet. Used by Export.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** 20

***CMP Initial Value:*** 20

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gllcfg_time.values: */

Gllcfg_time is_in {15 thru 60};

end
```

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# Gllcm_ts

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllcm_ts | LRFR | DMshort |

### 1.1 Gllcm_ts

Global Office Parameter Gllcm_ts

### 1.2 Description

ISLU-Z is not currently supported for domestic applications. This parameter is used by generalized ringing for ringing resource allocation. Gllcm_ts is the least common multiple of the ringing cadences in time slot terms. The value used by domestic is 12.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 12

***AM Initial Value:*** 12

***CMP Initial Value:*** 12

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 12;
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gllcm_ts.values: */

Gllcm_ts is_in {2 thru 15};
```

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# Gllcmlen

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllcmlen | FP | DMshort |

### 1.1 Gllcmlen

Global Office Parameter Gllcmlen

### 1.2 Description

This parameter is used by Generalized Ringing for ISLU-Z RG allocation. Gllcmlen is the length of the Least Common Multiple of the ringing cadences in 50 (Glcadalen, Glcadblen) in 50ms increments. The value used by domestic is 120.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 120

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

      pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gllcmlen.values: */

if (current_pcr is_in { 1 thru 192 }) then
begin
        Gllcmlen is_in {40 thru 300};
end
```

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# Glld_sh_op

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glld_sh_op | FP | DMld_share |

### 1.1 Glld_sh_op

Global Office Parameter Glld_sh_op

### 1.2 Description

Glld_sh_op will contain the loadsharing option for the SLS distribution for the links.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** CCANSILS

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** None

***Retrofit Rules:*** None

***Default Rules:***
```
default = CCANSILS;
```

***Distribution Rules:***
```
for gsm_opc in RLgsm_opc

begin

        pcrlist[gsm_opc.gsm] = true;

end
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
       if (Glnatl7sm != 0) then
       begin
               Glld_sh_op == CCANSILS;
       end

       if (Glintl7sm != 0) then
```

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```
        begin
                Glld_sh_op == CCEVENLS;
        end
end
```

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# Glldcwtrmt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glldcwtrmt | FR | DMbool |

### 1.1 Glldcwtrmt

Global Office Parameter Glldcwtrmt

### 1.2 Description

This parameter indicates whether calls without Calling Party Number information will be treated as long distance or local for the Long Distance Call Waiting with Distinctive Tones and Distinctive Ringing Special Feature Enhancement. The default value of "DBNO" indicates long distance call treatment. Value of "DBYES" indicates local call treatment.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Glldcwtrmt cannot be YES when secured feature bit SFID91 is off.

***Retrofit Rules:*** This data was previously stored in global parameter Glsf2dummy. During a retrofit from 5E10(1) to 5E11(1), this global parameter must be initialized to the value of Glsf2dummy. Glsf2dummy must then be reset to its default value.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glldcwtrmt.values: */

        /* no check */ ;
```

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# Glldpnscid

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glldpnscid | FR | DMchar3 |

### 1.1 Glldpnscid

Global Office Parameter Glldpnscid

### 1.2 Description

This is the global Long Distance Platform Terminating Network Selection Code Context ID (LDPNSCID) relation.

***Type:*** DB4STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** "\0"

***AM Initial Value:*** "\0"

***CMP Initial Value:*** "\0"

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default="";
```

***Distribution Rules:***
```
        /* Populate on all SMs */

        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glldpnscid.values: */

        if (Glldpnscid != "") then
                Glldpnscid ~== "[0-9][0-9][0-9]";
end
```

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# Glldpnvi

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glldpnvi | FR | DMuns3 |

### 1.1 Glldpnvi

Global Office Parameter Glldpnvi

### 1.2 Description

This is the global Long Distance Platform Network Vendor Identifier (LDPNVI) relation.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Not used, reserved for future use

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default=0;
```

***Distribution Rules:***

```
        /* Populate on all SMs */

        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

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# Glldpoff

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glldpoff | FR | DMuns8 |

### 1.1 Fullname:

Global Office Parameter Glldpoff

### 1.2 Description:

Long Distance Platform Office Identifier

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter will be displayed on RC/V 8.1

***Retrofit Rules:*** The value is preserved over a retrofit

***Default Rules:***
```
default=0;
```

***Distribution Rules:***
```
        /* Populate on all SMs */
```

***Checks:***
```
        /* No checks */
```

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# Glldponsc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glldponsc | FR | DMonsc |

### 1.1 Glldponsc

Global Office Parameter Glldponsc

### 1.2 Description

Long Distance Platform Originating Network Selection Code.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1023

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default=1023; /* $ONSC_NULL */
```

***Distribution Rules:***
```
        /* Populate on all SMs */

        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glldponsc.values: */
        Glldponsc is_in {0 thru 999, 1023}; /* $ONSC_NULL = 1023 */
end
```

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# Glldpreor

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glldpreor | FR | DMhex16 |

### 1.1 Glldpreor

Global Office Parameter Glldpreor

### 1.2 Description

Long Distance Platform Reroute On Release Cause List

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default=0;
```

***Distribution Rules:***
```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
        /*  NOTE:  each bit represents a CAUSE value
         *         where: 1 = active
         *                0 = inactive
         *
         *         shown here are which bits represent
         *         which CAUSE values:
         *
         *      _________________________________
         *      | | | | | | | | | | | | | | | |
         *      ---------------------------------
         *       ^                               ^
         *       |                               |
```

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```
*       |                              |
*      bit 15 ..................... bit 0
* (highest order bit)          (lowest order bit)
*     CAUSE 47 ................... CAUSE 32
*/
```

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# Glldptnsc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glldptnsc | FR | DMtnsc |

### 1.1 Glldptnsc

Global Office Parameter Glldptnsc

### 1.2 Description

Long Distance Platform Terminating Network Selection Code.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1023

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** if SFID 217 (MINT-ALPHA) is turned on then Glldptnsc is_in {0 thru 999};

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default=1023; /* $TNSC_NULL */
```

***Distribution Rules:***
```
        /* Populate on all SMs */

        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glldptnsc.values: */
        Glldptnsc is_in {0 thru 999, 1023}; /* $TNSC_NULL = 1023 */

        if (Glldptnsc != 1023) then
        begin
                /* tnsc must be known in RLldptnsc */
```

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```
                find == 1 ldptnsc in RLldptnsc
                where (ldptnsc.tnsc == Glldptnsc);
        end
end
```

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# Gllds_opt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllds_opt | FP | DMlds_opt |

### 1.1 Gllds_opt

Global Office Parameter Gllds_opt

### 1.2 Description

This parameter is only used by the national and international versions of SS7 (formerly CCITT7). Indicates the load sharing option to be used for normal distribution of SLSs over links within the link set.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** CCLSOPNULL

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** The default value CCLSOPNULL indicates that the loadsharing option is not chosen but it must be set before SS7 (formerly CCITT7) can be enabled for an office.

The only loadsharing option available on an international or national GSM is CCLS_OP1.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = CCLSOPNULL;
```

***Distribution Rules:***
```
for gsm_opc in RLgsm_opc

begin

        pcrlist[gsm_opc.gsm] = true;

end
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
     /* Gllds_opt must be CCLS_OP1 on an international or national
        SS7 (formerly CCITT7) GSM.
```

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```
     */
     if ((Glnum_natl7 != 0) || (Glnum_intl7 != 0)) then
     begin
            Gllds_opt == CCLS_OP1;
     end
     else
     begin
             Gllds_opt == CCLSOPNULL;
     end

end
```

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# Gllecrdalw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllecrdalw | FR | DMbool |

### 1.1 Gllecrdalw

Global Office Parameter Gllecrdalw

### 1.2 Description

This parameter indicates whether OSPS Quiet Hear Service should be applied on calls that are billed to a LEC calling card.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5E10(1), this parameter must be set to the value in bit 14 in Gloff6.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gllecrdalw.values: */

        /* no check */ ;
```

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# Gllghpbd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllghpbd | LPFP | DMblockid |

### 1.1 Fullname:

Global Office Parameter Gllghpbd

### 1.2 Description:

This global office parameter will store the blockid of a head page which contains the blockids of NRAM pages which contain tuple blocks used to support the DB logging. It will be set by DB initialization and audited by the DB memory manager audit. ODA and DBGEN should NOT populate this parameter. The value is NOT preserved for retrofits.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* Populate on all sms */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gllghpbd.values: */

        /* no check */ ;
```

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# Gllidbtime

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllidbtime | LRFR | DMuns4 |

### 1.1 Gllidbtime

Global Office Parameter Gllidbtime

### 1.2 Description

LIDB query time out parameter. Time allowed for LIDB query (BNS or Calling card) to respond. Range is specified in seconds. This parameter indicates the longest period of time that call processing will wait for a reply from the database. A timeout for a BNS query will result in the operators following local practices to obtain verification. A timeout for a calling card query will result in call processing continuing the call as indicated by the Glbllng_blck parameter. Since the level of query traffic that can be handled decreases as the holding time increases, extreme care should be used when increasing the value above the default value.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2

***AM Initial Value:*** 2

***CMP Initial Value:*** 2

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 2;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gllidbtime.values: */

        /* no check */ ;
```

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# Gllinecap

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllinecap | FR | DMlinecap |

### 1.1 Gllinecap

Global Office Parameter Gllinecap

### 1.2 Description

Used for specifying the capacitance in nanofarads per kilometer for lines terminating to export offices. No population rules available.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 52

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 52 ;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
        /* no check */
```

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# Gllmc_thr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllmc_thr | FR | DMuns4 |

### 1.1 Gllmc_thr

Global Office Parameter Gllmc_thr

### 1.2 Description

The global Gllmc_thr is used to specify the maximum number of times the language menu prompt can be played.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 2;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gllmc_thr.values: */

        /* no check */ ;
```

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# Glln_nodes

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glln_nodes | LRFR | DMcount |

### 1.1 Glln_nodes

Leased Network Nodes

### 1.2 Description

The relation RLlnnode_m contains an entry for each destination Leased Network node in the Leased Network. This global parameter will contain the number of tuples in the relation, which is half the number of destination Leased Network nodes for which Leased Network node-to-node measurements will be pegged. It will be updated by RC/ODA if a tuple is added or deleted to the relation.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global needs to be updated when the number of tuples in RLlnnode_m changes via an insert and/or delete to reflect the number of tuples in the relation.

***Retrofit Rules:*** maintain value

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glln_nodes.values: */

Glln_nodes is_in {0 thru 62};

/* Glln_nodes must equal call count (RLlnnode_m,am) */
```

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# Gllndas

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllndas | FR | DMshort |

### 1.1 Gllndas

Global Office Parameter Gllndas

### 1.2 Description

This global parameter will be defined as the DAS to specify the digit tree to use for the vacant code screening for the Leased Network (LN) Action Point (ACP) calls. If this global parameter is populated (not equal to zero), then there should exactly exist one tuple in the relation RLrc_das with RLrc_das.digtree = Gllndas.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gllndas.values: */

Gllndas is_in {0 thru 99};
```

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# Gllnp_dfr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllnp_dfr | LRFR | DMcnaopt |

### 1.1 Fullname:

LNP Default Flat Rate Global Parameter

### 1.2 Description:

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** AMNOCNAREC

***AM Initial Value:*** AMNOCNAREC

***CMP Initial Value:*** AMNOCNAREC

***RC/ODA Rules:***

```
/*
 * The generation of a default flat rate record by an originating
 * end-office is controlled by this provisionable parameter.
 * This parameter is can take on one of three enum values.
 *
 *       if (SFID276 == DBYES) then
 *                (SFID199 == DBYES)
 *       else
 *                (Gllnp_dfr == AMNOCNAREC)
 */
```

***Retrofit Rules:*** None.

***Default Rules:***

```
default = AMNOCNAREC;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Gllnp_dfr.values: */

        /* no check */ ;

Gllnp_dfr is_in { AMNOCNAREC, AMUNCOND, AMCOND };
```

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# Gllnp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllnp | FR | DMbool |

### 1.1 Gllnp

Local Number Portability (LNP) indicator

### 1.2 Description

When set to DBYES, this parameter indicates that the LNP feature SFID174 is unlocked and at least one ASP LNP trigger number has been populated in an RLdaprmfnl tuple.

The purpose of this parameter is to trigger the recalculation of the number of ASP dynamic base relation tuples in RLnsdb, RLns_bill, RLns_idx, and RLtn_info, and the allocation of new tuples for these relations due to the use of ASP queries for the LNP feature.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***TRIGGER:*** FCtriaspbase

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** This is an internal parameter not supported by an RC view. It can be established by ODA. RC mapping code will update this parameter from DBNO to DBYES, when RC finds that the first ASP LNP trigger number has been populated in RLdaprmfnl. An ASP LNP trigger number may only be populated if SFID174 has been unlocked, so this parameter may only be set to DBYES if SFID174 has been unlocked.

***Retrofit Rules:*** This parameter should be recalculated during a retrofit. If SFID174 is unlocked and there is at least one tuple in RLdaprmfnl with the lnp_trignum attribute set to a non-zero value, then this parameter should be set to DBYES. Otherwise it should be DBNO.

The Glaspbase parameter should be calculated AFTER this parameter has been calculated.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

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```
/* RULE about Gllnp */

        /* no check */ ;
```

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# Gllnpalmth

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllnpalmth | LR | DMuns7 |

### 1.1 Gllnpalmth

AT&T Local Number Portability (LNP) Query Alarm Threshold Parameter

### 1.2 Description

The Gllnpalmth global parameter holds the value of the AT&T LNP Query Alarm Threshold Parameter. This specifies the AT&T percentage of LNP query successes, in a quarter hour, below which the AT&T LNP Query Failure Alarm will be activated.

The default is 15.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 15

***CMP Initial Value:*** 15

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5E11(1), this parameter must be set to Gloamff{0:6}.

***Default Rules:***
```
default = 15;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gllnpalmth.values */

Gllnpalmth is_in {0 thru 100};
```

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# Gllnpama

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllnpama | FR | DMbool |

### 1.1 Fullname:

Local Number Portability (LNP) Automatic Message Accounting (AMA) indicator

### 1.2 Description:

When set to DBYES, this parameter indicates that the Number Portability feature, NP-AMA Access Billing, SFID199 is unlocked. When set to DBNO, this parameter indicates that SFID199 is locked. After SFID199 has been updated, this parameter will be updated from DBNO to DBYES or from DBNO to DBYES by functions triggering off of RLfc_line, RLis_line, or RLfc_trunk being updated, inserted, or deleted.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***TRIGGER:*** *

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** This parameter is updated by trigger functions and is not supported by RC mapping code. The value of this parameter is initialized by ODA. If SFID199 is unlocked, ODA will set this value to DBYES. If SFID199 is locked, ODA will then set this value to DBNO.

***Retrofit Rules:*** In 5E11 and 5E12, this data was previously stored in the ab2 attribute of a RLsf14 tuple with ks equal to the SM number and ksubrid equal to 1. During a retrofit from 5E12 to 5E13, the data from sf14.ab2 must be carried over and stored in this parameter. In later retrofits, the value of this parameter should be preserved (by EVL code or ODA).

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Gllnpama */

/* no rules */
```

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# Gllnpasrts

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllnpasrts | FR | DMbool |

### 1.1 Gllnpasrts

Location Routing Number (LRN) in Asserts Parameter

### 1.2 Description

The Gllnpasrts global parameter holds the value of the Location Routing Number (LRN) in Asserts parameter which specifies whether the LRN is included in asserts.

The default is DBNO.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5E11(1), this parameter must be set to Gloff7{23}.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gllnpasrts.values */

/* no check */
```

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# Gllnpdfrsc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllnpdfrsc | LRFR | DMushort |

### 1.1 Fullname:

LNP Default Flat Rate Structure Code Global Parameter

### 1.2 Description:

This global determines which AMA structure code is to be used with the CC721 record.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 500

***AM Initial Value:*** 500

***CMP Initial Value:*** 500

***RC/ODA Rules:***

```
/*
 *       if (SFID276 == DBYES) then
 *                (SFID199 == DBYES)
 *       else
 *                (Gllnpdfrsc == 500)
 */
```

***Retrofit Rules:*** None.

***Default Rules:***

```
default = 500;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Gllnpdfrsc.values: */

        /* no check */ ;

Gllnpdfrsc is_in { 001, 500 };
```

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# Gllnplidb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllnplidb | FR | DMuns4 |

### 1.1 Gllnplidb

Number of Digits in LIDB Query Address

### 1.2 Description

The Gllnplidb global parameter holds the value of the Number of Digits in LIDB Query Address which specifies the number of digits to be included in the address of a LIDB query.

The default is 6.

***Type :*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 6

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5E11(1), this parameter must be set to Gloff7{24:27}.

***Default Rules:***
```
default = 6;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gllnplidb.values */

Gllnplidb is_in {6,10};
```

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# Gllnpmnthr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllnpmnthr | LR | DMuns7 |

### 1.1 Gllnpmnthr

AT&T Minimum Threshold Parameter

### 1.2 Description

The Gllnpmnthr global parameter holds the value of the AT&T Minimum Threshold Parameter which specifies the AT&T minimum number of queries that must be attempted during a quarter hour to allow the query success rate, which is set using ATT QRY ALM THR field, to be calculated.

The default is 1.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 1

***CMP Initial Value:*** 1

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5E11(1), this parameter must be set to Gloamff{7:13}.

***Default Rules:***

```
default = 1;
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gllnpmnthr.values */

Gllnpmnthr is_in {1 thru 64};
```

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# Gllnpotrs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllnpotrs | FR | DMbool |

### 1.1 Gllnpotrs

Location Routing Number (LRN) in Operator Trouble Reports (OTR) Parameter

### 1.2 Description

The Gllnpotrs global parameter holds the value of the Location Routing Number (LRN) in Operator Trouble Reports (OTR) parameter which specifies whether the LRN is included in OTR.

The default is DBNO.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5E11(1), this parameter must be set to Gloff7{22}.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gllnpotrs.values */

/* no checks */
```

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# Gllnpqrytr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllnpqrytr | FR | DMuns8 |

### 1.1 Gllnpqrytr

AT&T Query Translation Type

### 1.2 Description

The Gllnpqrytr global parameter holds the value of the AT&T Query Translation Type parameter expressed as a unique translation type for AT&T Local Number Portability (LNP).

The default is 0.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5E11(1), this parameter must be set to Gloff7{0:7}.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gllnpqrytr.values */

/* no checks */
```

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# GllnprecaI

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| GllnprecaI | FP | DMbool |

### 1.1 Fullname:

Local Number Portability Recalculation indicator

### 1.2 Description:

When set to DBYES, this parameter indicates that the Number Portability feature, NP - AMA Access Billing, SFID199 is unlocked and the number of ASP dynamic base relation tuples in RLnsidx, RLnsdb, and RLns_bill has been recalculated. When set to DBNO, this parameter indicates that SFID199 is locked and the number of tuples in RLnsidx, RLnsdb, and RLns_bill has not been recalculated. This parameter will be updated after SFID199 has been updated and as soon as either RLfc_line, RLis_line, or RLfc_trunk is updated, inserted, or deleted.

The parameter was created as part of a "work around" that tries to deal with not being able to trigger directly off of changes to SFIDs. The recalculation is instead triggered by the first RLfc_line, RLis_line, or RLfc_trunk tuple that is updated, inserted, or deleted after SFID199 has been unlocked. When set to DBYES, this parameter indicates that the initial recalculation has taken place and that from this point on, the recalculation should only be triggered if the number of ported lines or trunks changes.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** This parameter is updated by trigger functions and is not supported by RC mapping code. The value of this parameter is established by ODA. ODA will always set the value to DBNO.

***Retrofit Rules:*** In 5E11 and 5E12, this data was previously stored in the ab1 attribute of a RLsf14 tuple with ks equal to the SM number and ksubrid equal to 1. During a retrofit by EVL from 5E12 to 5E13, the data from sf14.ab1 must be carried over and stored in this parameter.

In later retrofits by EVL, the value of this parameter should be preserved.

In retrofits by ODA, this value will always be set to DBNO.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

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```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gllnprecal */

/* no rules */
```

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# Gllnpthrd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllnpthrd | FR | DMlnpthrd |

### 1.1 Gllnpthrd

Third Number Calls Parameter

### 1.2 Description

The Gllnpthrd global parameter holds the value of the Third Number Calls parameter which specifies whether Local Number Portability (LNP) queries are sent on all third number calls at billing validation time or at routing time.

The default is "LNPBILL".

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** LNPBILL

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5E11(1), this parameter must be set to Gloff7{21}.

***Default Rules:***
```
default = LNPBILL;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gllnpthrd.values */

/* no checks */
```

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# GllnptIncd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| GllnptIncd | FR | DMbool |

### 1.1 GllnptIncd

Telephone Line Number (TLN) based (10+4) Card Numbers Parameter

### 1.2 Description

The GllnptIncd global parameter holds the value of the TLN based (10+4) Card Numbers parameter which specifies whether Local Number Portability (LNP) queries are sent on TLN based (10+4) card numbers.
The default is DBNO.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5E11(1), this parameter must be set to Gloff7{20}.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gllnptlncd.values */

/* no checks */
```

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# Gllnptmqry

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllnptmqry | FR | DMuns4 |

### 1.1 Gllnptmqry

AT&T LNP Query Timeout Parameter

### 1.2 Description

The Gllnptmqry global parameter holds the value of the AT&T LNP Query Timeout parameter expressed as the AT&T query timeout period, in seconds, for a Local Number Portability (LNP) query.
The default is 2.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5E11(1), this parameter must be set to Gloff7{16:19}.

***Default Rules:***
```
default = 2;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gllnptmqry.values */

Gllnptmqry is_in {1 thru 8};
```

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# Gllnptrigr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllnptrigr | FR | DMuns8 |

### 1.1 Gllnptrigr

Advanced Intelligent Network (AIN) trigger number Parameter

### 1.2 Description

The Gllnptrigr global parameter holds the value of the AIN trigger number parameter which is reserved for OSPS AIN Local Number Portability (LNP) queries.
The default is 0.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5E11(1), this parameter must be set to Gloff7{8:15}.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gllnptrigr.values */

/* no checks */
```

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# Glloc_loss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glloc_loss | FP | DMtsi_loss |

### 1.1 Glloc_loss

Global Office Parameter Glloc_loss

### 1.2 Description

This parameter is used to define the amount of decibel (dB) loss applied to local calls by the Time Slot Interchanger (TSI). It applys to all calls that do not traverse an umbilical link. Intermodule calls on an ORM are treated as umbilical calls; therefore, local loss will not be applied to these calls.

This parameter is set in 0.5 dB increments. Range of values: min. LSS0_0 (0.0 dB) to max. LSS15_0 (15.0 dB).

```
LSS0_0 (0.0 dB)

LSS0_5 (0.5 dB)

LSS1_0 (1.0 dB)

LSS1_5 (1.5 dB)

LSS2_0 (2.0 dB)

        .

        .

        .

LSS15_0 (15.0 dB)
```

In order to set the parameter to a value greater than 0.0, the Far Access Remote (FAR) special feature (SFID 184) must be purchased and must be turned on (SFID 184 is set) for the office.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** LSS0_0

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***AM Initial Value:*** LSS0_0

***CMP Initial Value:*** LSS0_0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = LSS0_0;
```

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glloc_loss.values: */

Glloc_loss is_in { LSS0_0,  LSS0_5,  LSS1_0,  LSS1_5,  LSS2_0,  LSS2_5,
                   LSS3_0,  LSS3_5,  LSS4_0,  LSS4_5,  LSS5_0,  LSS5_5,
                   LSS6_0,  LSS6_5,  LSS7_0,  LSS7_5,  LSS8_0,  LSS8_5,
                   LSS9_0,  LSS9_5,  LSS10_0, LSS10_5, LSS11_0, LSS11_5,
                   LSS12_0, LSS12_5, LSS13_0, LSS13_5, LSS14_0, LSS14_5,
                   LSS15_0};

end
```

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# Gllocabn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllocabn | FR | DMbool |

### 1.1 Gllocabn

Global Office Parameter Gllocabn

### 1.2 Description

Determines whether the office records AMA data for billable abandoned calls; initially this should be inhibited.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gllocabn.values: */

Gllocabn is_in {DBYES, DBNO};
```

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# Gllocalcoin

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllocalcoin | FR | DMbool |

### 1.1 Gllocalcoin

Global Office Parameter Gllocalcoin

### 1.2 Description

This parameter is used by the special feature, Coin Line Automatic Message Accounting (CLAMA) in 5E8(1). This parameter is SM redundant. It is used to obtain on a per office basis, AMA records for local coin sent-paid calls. This parameter can be set to DBYES only if the security bit (SFID070) indicates that the CLAMA feature has been purchased by the office.

The value of this parameter can be:

```
DBNO  = do not generate AMA records

DBYES = generate AMA records
```

ODA should initialize this parameter to DBNO in a new office.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** On a 5E7(1) to 5E8(1) retrofit, map the value of Glim1dummy (5E7(1)) to Gllocalcoin (5E8(1)).

***Default Rules:***

```
oda_default = DBNO;
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gllocalcoin.values: */

Gllocalcoin is_in {DBNO, DBYES};
```

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# Gllocans

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllocans | FR | DMbool |

### 1.1 Gllocans

Global Office Parameter Gllocans

### 1.2 Description

Determines whether or not local billable calls will generate AMA data. If set to DBNO, local AMA recording will be inhibited.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gllocans.values: */

Gllocans is_in {DBYES, DBNO};
```

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# Gllocsupv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllocsupv | FR | DMbool |

### 1.1 Gllocsupv

Global Office Parameter Gllocsupv

### 1.2 Description

Record Switch Supervisory Unit (SSU) number on local calls, also called Trunk Network Number; this is an LSSS requirement. When set to DBYES, the SSU number will be included in all AMA records for local calls.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gllocsupv.values: */

        /* no check */ ;
```

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# Glloop

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glloop | FP | DMushort |

### 1.1 Glloop

Global Office Parameter Glloop

### 1.2 Description

This parameter is initialized by the RLLOOPDB initialization function to equal the actual number of tuples in RLLOOPDB. If the RLLOOPDB initialization succeeds then Glloop will be set to the lesser of the values Glnbst and DBQNLOOPDB. In case of initialization failure, Glloop will reflect the actual number of RLLOOPDB tuples successfully initialized.

This parameter does not appear on any ODA form and ODA is not required to initialize its value. This parameter does not appear on any Recent Change (RC) view.

The RLPOS_LPRT trigger function will increase the value of Glloop as additional RLLOOPDB tuples are inserted in response to increases to Glnbst, resulting from RC to view 21.32 (RC_PPMAP). The RLPOS_LPRT trigger function will insert RLLOOPDB tuples and correspondingly increase Glloop such that Glloop is not less than the lesser of the values Glnbst and DBQNLOOPDB. The range is specified in decimal.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
```

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```
/* RULE about Glloop.values: */

Glloop is_in {0 thru 200};

end
```

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# Gllop_max

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllop_max | FP | DMuns3 |

### 1.1 Fullname:

Language of Preference Maximum

### 1.2 Description:

This global is used to determine the maximum Language of Preference (LOP) value that is considered valid in a CAS CCS7 TCAP query reply. Gl_pcrid.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 5;
```

***Distribution Rules:***
```
        /* This global is really group partitioned, but FG cannot */
        /* be specified for global parameters, so FP is specified */
        /* here.  The group partitioning should be:               */
        /*      RLdb_gpdus.grp_type = GPD_OSPS                    */
        /*      RLdb_gpdus.grp_id   = 4                           */
        pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
env.R,
PLgpd_defs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gllop_max.values: */
```

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```
Gllop_max is_in {0, 5 thru 7};

/* RULE about Gllop_max: */

/* This global is zero on all SMs not belonging  */
/* to the distribution group, non-zero otherwise */
begin
let bool = (count { db_gpdus in RLdb_gpdus
where (db_gpdus.grp_type == GPD_OSPS &&
    db_gpdus.grp_id == 4 &&
    db_gpdus.module == Gl_pcrid)} == 1);
if (bool == false) then
begin
        if (runucv) then
        Gllop_max == 0;
end
else
begin
        if (runucv) then
        Gllop_max != 0;
end
end

end
```

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# Gllportcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllportcnt | FP | DMulong |

### 1.1 Fullname:

Global Office Parameter Count of Analog Lines and ISDN Digital

Subscriber Line Logical Terminations that are ported

### 1.2 Description:

The Gllportcnt global parameter contains an SM's count of analog lines (that do not have shared DNs) and PODS (Plain Old Digital Service) lines that are ported by a Number Portability feature plus an SM's count of shared analog and ISDN tuples where the terminal has been ported by a Number Portability feature. Its value is maintained over all initializations and updated via trigger functions as analog and PODS lines are inserted, deleted, or updated and as shared analog and ISDN lines are inserted, deleted, or updated.

This count does not include terminals ported via Multi-Line Hunt Groups or Terminal Groups. This parameter c

***Type:*** DBULONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is updated by trigger functions and is not supported by RC mapping code. These functions are triggered off of RLfc_line or RLis_line being updated, inserted, or deleted. The values of this parameter is established by ODA. ODA will always set its value to the number of individually ported lines.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit (by ODA or EVL code). retrofit-oda-rules: Not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
```

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```
let aportedcnt = count {fc_line in RLfc_line
                     where (fc_line.ltm_type == LTM_OTHER &&
                            fc_line.ported == DBYES) };

let iportedcnt = count { is_line in RLis_line
                     where (is_line.ported == DBYES)};


/* RULE about Gllportcnt.value: */
Gllportcnt is_in {0 thru 28800};


/* RULE about Gllportcnt: */
Gllportcnt == aportedcnt + iportedcnt;

end
```

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# Gllrgchgthr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllrgchgthr | FP | DMuns7 |

### 1.1 Gllrgchgthr

Global Office Parameter Gllrgchgthr

### 1.2 Description

This parameter indicates (in nickels) the threshold value at which a coin call will be designated as a large charge call.

```
Gllrgchgthr=  6 implies $0.30

   .          7   .     $0.35

   .          .   .       .
```

Gllrgchrthr=100 implies $5.00

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 60

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 60;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Gllrgchgthr.values: */

if (current_pcr is_in { 1 thru 192 }) then
```

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```
begin
        Gllrgchgthr is_in {6 thru 100};
end
```

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# Glls_error

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glls_error | FR | DMrteidx |

### 1.1 Glls_error

Global Office Parameter Glls_error

### 1.2 Description

This parameter is used for the LASS error treatment announcement route index.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glls_error.values: */

        /* no check */ ;
```

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# Gllsama

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllsama | FR | DMbool |

### 1.1 Gllsama

Global Office Parameter Gllsama

### 1.2 Description

This global determines whether or not an AMA record should be written for a listing services call. A record is written if this global equals DBYES, otherwise no AMA record is generated.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gllsama.values: */

Gllsama is_in {DBYES, DBNO};
```

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# Gllscmdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllscmdb | FP | DMshort |

### 1.1 Fullname:

Global Office Parameter Gllscmdb, number of LSCMDBs allocated per SM

### 1.2 Description:

The Gllscmdb global parameter contains an SM's current rlLSCMDB tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***NOTE:*** The algorithm in this file must be the same as the algorithm in fc/FCtrigint/FClscmcnt.c which is the init code for Gllscmdb. So if the algorithm in this file changes verify that it is consistent with the init code algorithm. ODA has agreed to make the calculation changes in 5e10 even though the changes were made to this file in 5e11.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as DNs are shared. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
"env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
        Gllscmdb is_in {0 thru 28800};
```

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```
end

if (runucv) then
begin
if (current_pcr is_in sm_all) then
begin

/* RULE about Gllscmdb.values: */

if (Gllscmdb != 0) then
begin
        find > 0 lpconf in RLlpconfig
        where ((lpconf.smconfig == Glconfigname) &&
               (lpconf.package is_in {GLASHDN, GLISDNBRCS}))
        when_found
        begin
/*              Gllscmdb is_in {1 thru (DBQNLSCMDB - DBSFLSCMDB)};      */
                Gllscmdb is_in {1 thru (28800 - 0)};
        end
end

end


/* RULE about Gllscmdb: */

function func() returning int
begin
        avgca = 0;
        conten = 0;
        mu = 0;
        sigma = 0;
        lscmdb = 0;

        ashdn = count({ lpconf in RLlpconfig
                        where ((lpconf.smconfig == Glconfigname) &&
                               (lpconf.package == GLASHDN)) });

        isdnbrcs = count({ lpconf in RLlpconfig
                           where ((lpconf.smconfig == Glconfigname) &&
                                  (lpconf.package == GLISDNBRCS)) });

        if ((ashdn > 0) || (isdnbrcs > 0)) then
        begin
                if (isdnbrcs > 0) then
                begin
                      avgca = 4;
                      conten = 1;
                end
                else if (ashdn > 0) then
                begin
                      avgca = 1;
                      conten = 2;
                end
```

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```
                if ((Gllsdnnum + Glilscmdb) > 0) then
                begin
                      mu = ((Gllsdnnum * avgca * conten) + 5) / 6;
                      sigma = sqrt( mu );
                      lscmdb = (5 * sigma) + mu;
                end
                else
                begin
                        lscmdb = 0;
                end

/*              if (lscmdb + Glilscmdb <= (DBQNLSCMDB - DBSFLSCMDB)) then  */
                if (lscmdb + Glilscmdb <= (28800 - 0)) then
                        if( Gllscmdb >= lscmdb + Glilscmdb ) then
                        begin
                                return 0;
                        end
                        else
                        begin
                                return 1;
                        end
                else
/*                      Gllscmdb == DBQNLSCMDB - DBSFLSCMDB;    */
                        if( Gllscmdb == 28800 - 0 ) then
                        begin
                                return 0;
                        end
                        else
                        begin
                                return 2;
                        end
        end
        else
        begin
                if( Gllscmdb == 0 ) then
                begin
                        return 0;
                end
                else
                begin
                        return 3;
                end
        end
end

if (current_pcr is_in sm_all) then
begin
        let RET = func();
        RET == 0;
end
end
```

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# Gllscpd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllscpd | FP | DMbool |

### 1.1 Gllscpd

Global Office Parameter Gllscpd

### 1.2 Description

Listing Services coin sent paid traffic allowed.

Global Parameter to determine whether coin sent paid traffic is allowed.

Prior to 5E6(2), this global must always equal the default.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Gllscpd.values: */

        /* no check */ ;
```

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# Gllsdm1

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllsdm1 | LR | DMhex32 |

### 1.1 Gllsdm1

Global Office Parameter Gllsdm1

### 1.2 Description

This AM/CMP global is a spare. It must always equal the default value.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gllsdm1.values: */

Gllsdm1 is_in {0 thru 0xFFFFFFFF};
```

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# Gllsdm2

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllsdm2 | FR | DMhex32 |

### 1.1 Gllsdm2

Global Office Parameter Gllsdm2

### 1.2 Description

This SM redundant global is a spare. In 5E6(2), it was used for the intercept digit analysis selector. Beginning with 5E7(1), Glaisda is used for the intercept digit analysis selector. When evolving data from 5E6(1) to 5E7(1), the value of Glaisda in 5E7(1) must equal the value of Gllsdm2 in 5E6(1). In 5E7(1), Gllsdm2 is set to its default value.

In generics other than 5E6(2), this global must always equal the default.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** When this global is not zero, a tuple must exist in RLda_digstrt where RLda_digstrt.digtree equals the value of this global.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gllsdm2.values: */

Gllsdm2 is_in {0 thru 0xFFFFFFFF};
```

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# Gllsdnnum

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllsdnnum | FP | DMushort |

### 1.1 Gllsdnnum

Large SHDN Number

### 1.2 Description:

Number of Large SHDN groups appearing on this SM. The group must have at least 9 members and each SM the group appears on must increment the counter.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter should be populated based on the number of large SHDN groups per SM. When groups are updated via Recent Change this number can change based on whether a new large group was created or whether a large group was modified to become a small group. Also actions such as swaps, moves, etc. via Recent Change must update the Global if needed. Global must also be updated when large groups are changed to small groups. Also, when small groups are changed to large groups and when large groups are changed.

If there are no Large SHDN groups on the SM the value should default to zero.

***Retrofit Rules:*** This number must be populated at retrofit to be the number of large SHDN groups (more than eight terminals in the group) per SM.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gllsdnnum.values: */
```

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```
Gllsdnnum is_in {0 thru 65535};

end

/* RULE about Gllsdnnum: */

function func() returning boolean
begin
        counter = 0;
        for shterm in RLshterm
        begin
                if (shterm.range == 0 && shterm.shtm_cnt>7) then
                begin
                        counter = counter + 1;
                end
        end
        assert(counter == Gllsdnnum);
        return true;
end

if (current_pcr is_in sm_all) then
begin

func();

end
```

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# Gllsfw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllsfw | FP | DMhex32 |

### 1.1 Gllsfw

Global Office Parameter Gllsfw

### 1.2 Description

Listing Services call completion feature word.

This global is used to activate the LS Call Completion (LSCC) feature. Gllsfw has the following meaning: if 0, LSCC feature is off; if 1, LSCC feature is activated. When Gllsfw is greater than 1, the value is cast to the domain DMGPORT, which is the port number and the Module Number (SM) of a test trunk for the LSCC feature. Only calls on this test trunk are eligible for LSCC treatment. When Gllsfw is greater than one (test trunk), a tuple must exist in RLport_group where RLport_group.port equals Gllsfw and RLport_group.party equals FCP_TRUNK. A tuple must exist in RLfc_oprtk where RLfc_oprtk.tgroup equals RLport_group.portgrp.grpnum. In this tuple, RLfc_oprtk.lstraf must be DBYES.

Prior to 5E6(2), this global must always equal the default.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA only supports the 0 and 1 values. RC supports the 0 and 1 values plus the values for test trunk specification.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
```

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```
begin

/* RULE about Gllsfw.values: */
Gllsfw is_in {0 thru 0xffffffff};

end
```

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# Gllsilc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllsilc | FP | DMbool |

### 1.1 Gllsilc

Global Office Parameter Gllsilc

### 1.2 Description

Listing Services inter-LATA call completion allowed.

Global parameter to determine whether inter-LATA call completion is allowed.

Prior to 5E6(2), this global must always equal the default.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Gllsilc.values: */

        /* no check */ ;
```

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# Gllstraf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gllstraf | FP | DMshort |

### 1.1 Gllstraf

Percentage of listing services and QUANTUM traffic in the office.

### 1.2 Description

The Gllstraf global parameter holds the summation of the percentage of listing services traffic in the office and QUANTUM traffic in the office. Its value is established via ODA or RC/V and is maintained over retrofits.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** OAalo_srvot

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter must have the same value on all SMs where it is populated. For offices retrofitting to 5E9(2) and for initial offices, ODA should populate this parameter with the value 20, unless directed by the customer to use a different value (the customer may determine a different value based on actual or projected call volumes).

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
/* Though this global parameter is not populated everywhere,

* as for all FP global parameters, there is storage allocated

* for it on all SMs.  Thus the following distribution rules.

for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Import:***

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```
"PLgpd_defs.R"
```

***Checks:***

```
/* RULE about Gllstraf */

let pcrlist = get_gpd_pcrlist( GPD_OSPS, 4 );

if (current_pcr is_in sm_all) then
begin
        /* Gllstraf can only be non-0 on GPD_OSPS-4 SMs in
         * offices that handle OSPS traffic.  This prevents
         * the creation of RLsrvot tuples, which this global
         * governs, on SMs not used by OSPS.
         */
        if (pcrlist[current_pcr] == true &&
            (Glospson == DBYES || Glospsta == DBYES)) then
        begin
                Gllstraf is_in {1 thru 100};
        end else begin
                Gllstraf == 0;
        end
end
```

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# Glltdri

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glltdri | FP | DMsysid |

### 1.1 Glltdri

Global Office Parameter Glltdri

### 1.2 Description

TM Outgoing Local Test Desk (OG LTD) calls. This parameter is used only in routing OG LTD calls originated from Remote Switching Modules (RSMs), Optically Remote Switching Modules (ORMs), two-mile optically Remote Switching Modules (TRMs), and clusters of remote modules (MMRSMs). Modules that are non-RSM/non-ORM/non-TRM/non-MMRSM route OG LTD calls using fixed routing (TSTTRK treatment type), and therefore the value of this parameter must be set to the default value of zero (0). The route index value populated in the parameter Glltdri for RSM/ORM/TRM/MMRSM points to a trunk group of one or more outgoing SN107 circuits, all of which must reside within the remote module or cluster.

Each remote module or cluster for which OG LTD testing is to be supported must contain its own metallic facilities, including outgoing SN107 LTD trunk group(s), MMSU and MTBs.

Each module within a cluster must contain a non-zero value for the parameter Glltdri (if OG LTD is supported from that module). This value must point to a trunk group within the module or cluster. Failure to populate Glltdri to a non-zero value will result in metallic routing failures during OG LTD calls originated from that remote module. Population of Glltdri to a route index value pointing to a trunk group outside of the remote module or cluster will also result in metallic routing failures.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
```

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```
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glltdri.values: */

        /* no check */ ;
```

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# Glltime

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glltime | LR | DMuns7 |

### 1.1 Glltime

Global Office Parameter Glltime

### 1.2 Description

The lock out time during which all calls for a particular calling number/calling card pair are blocked. Range is specified in minutes. Default is 5 minutes. Glltime must be more than Glptime.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 5

***CMP Initial Value:*** 5

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 5;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glltime.values: */

Glltime is_in {5 thru 120};
```

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# Glltsbdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glltsbdb | FP | DMltsbdb |

### 1.1 Fullname:

Global Office Parameter Glltsbdb

### 1.2 Description:

This global parameter contains the number of RLdltsbdb data blocks allocated on this SM. It is used to determine the number of DLTSBDBs to initialize. It is updated as tuples are added via trigger functions. It is not meant to be an externally visible parameter.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC or ODA. The value of this parameter will be increased by trigger functions. It will never be decreased.

***Retrofit Rules:*** This value will be preserved during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
"env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glltsbdb.values: */

/*      Glltsbdb is_in {0 thru (DBQNDLTSBD - DBSFDLTSBD)}; */
```

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```
        Glltsbdb is_in {0 thru (4095 - 0)};

end

/* Rule about Glltsbdb: */

function func() returning int
begin
        mu = Glltsbnum/5;
        sigma = sqrt(mu);
        ltsbdb = (5 * sigma) + mu;

        if (ltsbdb > Glltsbnum) then
                ltsbdb = Glltsbnum;

        return ltsbdb;
end
if (runucv) then
begin
if (current_pcr is_in sm_all) then

begin
        let LTSBDB = func();

/*      if (LTSBDB <= (DBQNDLTSBD - DBSFDLTSBD)) then   */
        /* 4096 updated to 4095 as the domain subrange is
         * {0, 4095, unsigned short}
         */

        if (LTSBDB <= (4095 - 0)) then
                Glltsbdb >= LTSBDB;
        else
        /*      Glltsbdb == DBQNDLTSBD - DBSFDLTSBD;    */
                Glltsbdb == 4095 - 0;
end
end
```

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# Glltsbnum

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glltsbnum | FP | DMltsbdb |

### 1.1 Glltsbnum

Global Office Parameter Glltsbnum

### 1.2 Description

This parameter keeps track of the number of ltsb groups on an SM. Upon insertion of a new group, increase the shared number and run through a function that takes the number in this parameter and multiplies it by a fraction to get the number of DLTSBDBs that should be allocated. If the current number of DLTSBDBs is too little as indicated by Glltsbdb, then allocate the needed number that should fit on a page. Then increase the value of parameter Glltsbdb. This parameter is increased upon insertion or update of an ltsb group in relation RLdltsbdb. This parameter is updated as tuples are added via trigger functions.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter should initially be populated by ODA by setting it equal to the number of RLfc_porttyp tuples that have RLfc_porttyp.ltsb_alwd equal to DBYES.

***Retrofit Rules:*** The value of Glltsbnum should be preserved for generic retrofits after 5E5(1).

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glltsbnum.values: */

if (current_pcr is_in { 1 thru 192 }) then
begin
        find == 1 modatt in RLmodatt
        where ( modatt.module == current_pcr )
```

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```
        when_found
        begin
                if (modatt.unittype == SMSM2000 ) then
                begin
                        Glltsbnum is_in {0 thru 4095};
                end
                else
                begin
                        Glltsbnum is_in {0 thru 1023};
                end
        end
end
```

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## 3.23 Glm

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# Glmajalrm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmajalrm | LR | DMuns7 |

### 1.1 Glmajalrm

AMA Disk Writer Major Alarm

### 1.2 Description

This variable gives the major alarm setting as a percentage of total AMA disk storage.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 90

***AM Initial Value:*** 90

***CMP Initial Value:*** 90

***RC/ODA Rules:*** ODA and RC support all possible values. The default is 90.
If the value of Glmajalrm is greater than or equal to 2 and less than or equal to 98, then Glmajalrm should be at least 2 greater than the value of Glminalrm, given that Glminalrm is populated with a valid value (0-96), and at least 2 less than the value of Glcritalrm, given that Glcritalrm is populated with a valid value (4-100).

***Checks:***
```
/* Rule about Glmajalrm: */
if ((Glmajalrm is_greater_than_or_equal_to 2)and
(Glmajalrm is_less_than_or_equal_to 98)) then
begin
      Glmajalrm must_be_greater_than_or_equal_to Glminalrm plus 2
      Glmajalrm must_be_less_than_or_equal_to Glcritalrm minus 2
end
```

***Retrofit Rules:*** From 5e7 to 5e8 set this variable to the default value of 90. Subsequent retrofits should maintain the value on the switch.

***Default Rules:***
```
default = 90;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glmajalrm.values: */
```

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```
Glmajalrm is_in {2 thru 98};
```

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# Glmalloc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmalloc | FP | DMushort |

### 1.1 Fullname:

Count of rlMALLOC tuples present in SM

### 1.2 Description:

This global parameter contains the count of rlMALLOC tuples which are present in a given SM. This is done to allow engineering and auditing of rlMALLOC.

For an SM loaded with the ID303APP (IDCU) or ISDNBASE (ATS) loadable packages:

```
   The number of rlMALLOC tuples is nominally based on the
   number of TR303 RTs present in the SM, the number of
   concurrent TR303 processes, a fixed value, 80, for the
   Automatic Terminal Setup (ATS) software, and the
   incremental global parameter (Glimalloc).

   If there are no TR303 RTs in the SM then Glmalloc is 80
   (12 per ATS terminal process with up to 6 concurrent
   processes and 8 extra tuples) + Glimalloc.  This is the
   default number of tuples required for ATS.

   Note that the nomenclature xxx:yyy means the value for both
   the SM (xxx) and SM-2000 (yyy).
   If there are TR303 RTs in the SM, then Glmalloc is equal to:

      4 (A) * max number of TR303 processes (B) + 4 (C) +
      80 (D) + Glimalloc up to a value of 880:1472 which
      is then rounded up to the next power of 2 less 1 (2047).

      Where:
         A = Number of TR303 rlMALLOC tuples per TR303 TP
         B = Max number of TPs statistically possible for 1 RT:
             1 (a) + 34:66 (b) - 11 (c) + 2 (d) - 4 (A) = 22:54
               a = Maximum TR303 rlRTLB tuples set aside
                   for recovery
               b = Maximum number of TR303 TPs per SM possible
               c = The maximum number of concurrent TR303 manual
                   processes is not realistic, so take them away
               d = Realistic maximum number of TR303 manual jobs
                   to a given RT
         C = Maximum TR303 rlMALLOC tuples set aside for recovery
         D = Number of ATS rlMALLOC tuples

For an SM not loaded with the ID303APP (IDCU) and ISDNBASE (ATS)
loadable packages:

     The number of rlMALLOC tuples is 0.
```

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```
Note that the count of operational/grow TR303 RTs in the SM
is available in the Glrt303cnt global parameter.

Note that the customer can increase the value of this global
parameter by increasing the incremental global parameter
(Glimalloc).

The fixed value of 80 tuples is to provide ATS with up to 12 MALLOC
tuples for each ATS_DCOLL terminal process (with a maximum of 6
ATS_DCOLL processes active at one time).
```

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter should be administered by ODA and TM triggers. It is not administered by RC.

***Retrofit Rules:*** This count should be recalculated during a retrofit based upon the poprule checks for the new generic.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***

```
env.R
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glmalloc.values: */

/* let MAX_TUPLES = DBQNMALLOC - DBSFMALLOC; */
let MAX_TUPLES = 2047 - 0;

Glmalloc is_in {0 thru MAX_TUPLES};

/* RULE about Glmalloc: */
```

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```
if (runucv) then
begin
if (current_pcr is_in { 1 thru 192 }) then
begin
        if ((count({lpconf in RLlpconfig
                where(lpconf.smconfig == Glconfigname &&
                      lpconf.package == GLID303APP)}) > 0) ||
             (count({lpconf in RLlpconfig
                where(lpconf.smconfig == Glconfigname &&
                      lpconf.package ==  GLISDNBASE)}) > 0)) then
        /*
         *  SM is loaded with ID303APP loadable package (IDCU) or
         *  ISDNBASE loadable package (ATS).
         */
        begin
           let ATS_TUPLES = 80;

           if (Glrt303cnt == 0) then
           begin
                /* There are no operational/growth TR303 RTs. */

                /*
                 *  If the calculated value exceeds the maximum
                 *  number of tuples allowed (MAX_TUPLES), set the
                 *  global parameter to the maximum number of
                 *  tuples.
                 */
                if (ATS_TUPLES + Glimalloc < MAX_TUPLES) then
                begin
                        Glmalloc == ATS_TUPLES + Glimalloc;
                end
                else
                begin
                        Glmalloc == MAX_TUPLES;
                end
           end
           else
           begin
                find == 1 modatt in RLmodatt
                where (modatt.module == Gl_pcrid)
                when_found
                begin
                   if (modatt.unittype is_in {SMSM2000, SMSM2005})
                   then
                   begin
                        /* SM-2000 */

                        /*
                         * If the calculated value exceeds the
                         * maximum umber of tuples allowed (
                         * MAX_TUPLES), set he global parameter to
                         * the maximum number of tuples.
                         */
```

```
                    if (4 * (54 + (4 * Glrt303cnt)) + 4 +
                        ATS_TUPLES + Glimalloc < MAX_TUPLES)
                    then
                    begin
                            Glmalloc == 4 * (54 + (4 *
                                            Glrt303cnt)) + 4 +
                                        ATS_TUPLES + Glimalloc;
                    end
                    else
                    begin
                            Glmalloc == MAX_TUPLES;
                    end
               end
               else
               begin
                    /* SM */

                    /*
                     * If the calculated value exceeds the
                     * maximum number of tuples allowed (
                     * MAX_TUPLES), set the global parameter to
                     * the maximum number of tuples.
                     */
                    if (4 * (22 + (4 * Glrt303cnt)) + 4 +
                        ATS_TUPLES + Glimalloc < MAX_TUPLES)
                    then
                    begin
                          Glmalloc == 4 * (22 + (4 *
                                      Glrt303cnt)) + 4 +
                                      ATS_TUPLES + Glimalloc;
                    end
                    else
                    begin
                          Glmalloc == MAX_TUPLES;
                    end
               end
          end
     end
     end
     else
     /*
      *  SM is not loaded with ID303APP loadable package (IDCU)
      *  and ISDNBASE loadable package (ATS).
      */
     begin
            Glmalloc == 0;
     end
end

end
end
```

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# Glman_di

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glman_di | LR | DMindex |

### 1.1 Glman_di

Global Office Parameter Glman_di

### 1.2 Description

Destination index for manual lines. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glman_di.values: */
        /* no check */ ;
```

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# Glmate_pc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmate_pc | FP | DMdpc |

### 1.1 Fullname:

Global Office Parameter Glmate_pc

### 1.2 Description:

This Global Parameter is used to hold the Point Code value of the Mate office to this standardization sector (SS7) (formerly CCITT7) National or International GSM if the GSM can be an STP; otherwise it will contain the GSM's origination point code.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** On a GSM, the initial value of Glmate_pc should be the point code of the GSM; on an SM the initial value of Glmate_pc should be zero. If an SM—2000 is defined as a GSM via the insert operation on Recent Change view 16.1 (CCGSM) or ODA form CCGSM, the value of Glmate_pc on that SM—2000 should be updated to contain the GSM's point code. If an GSM is deleted via the delete operation on Recent Change view 16.1 (CCGSM) or ODA form CCGSM, the value of Glmate_pc on that SM should be updated to zero.

***Retrofit Rules:*** The value of Glmate_pc should be preserved over retrofit.

***Default Rules:***

```
/*
* This Global Parameter is used only on a  standardization sector (SS7)
* (fromerly CCITT7) National or International Global SM-2000.  All
* Non-Global SMs must have the parameter set to 0.
*/
if ((Glintl7sm == Gl_pcrid) ||
    (Glnatl7sm == Gl_pcrid)) then
begin
      find == 1 gsm_opc in RLgsm_opc
      where (gsm_opc.gsm == Gl_pcrid)
      when_found
      begin
            default = gsm_opc.opc;
      end
```

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```
end
else
begin
      default = 0;
end
```

***Distribution Rules:***

```
        for modatt in RLmodatt
        begin
                pcrlist[modatt.module] = true;
        end
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
        if ((Glintl7sm == current_pcr) ||
        (Glnatl7sm == current_pcr)) then
        begin
                find == 1 gsm_opc in RLgsm_opc
                where (gsm_opc.gsm == current_pcr)
                when_found
                begin
                        Glmate_pc == gsm_opc.opc;
                end
        end
        else
        begin
                Glmate_pc == 0;
        end
end
```

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# Glmax_fm_rc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmax_fm_rc | LR | DMuchar |

### 1.1 Glmax_fm_rc

Global Office Parameter Glmax_fm_rc

### 1.2 Description

This parameter indicates the total number of facilities management (FM) originated recent change (RC) sessions that can be running on the 5ESS(R)-2000 switch. This parameter is added in generic 5E3(1) so that switch switch personnel can control FM RC/V sessions which are initiated externally from a 3B20S Applications Processor. The initial value should be set to 4 (decimal). Afterwards this parameter will be recent changeable and can be set from 0 - 10 (decimal).

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 4

***CMP Initial Value:*** 4

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glmax_fm_rc.values: */
Glmax_fm_rc is_in {0 thru 10};
```

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# Glmaxconv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmaxconv | FR | DMuns5 |

### 1.1 Glmaxconv

Advanced Services Platform Maximum Number of Conversations

### 1.2 Description

This value determines the maximum number of conversations an ASP call is allowed to have with an SCP per transaction. The default value is 5 conversations.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 5

***AM Initial Value:*** 5

***CMP Initial Value:*** 5

***RC/ODA Rules:*** This global parameter should not be changed from its default unless the Secured Feature ID has be activated.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 5;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glmaxconv.values: */
Glmaxconv is_in {1 thru 30};
```

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# Glmaxphdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmaxphdb | FP | DMushort |

### 1.1 Glmaxphdb

Global Office Parameter Glmaxphdb - maximum path data blocks

### 1.2 Description

Glmaxphdb parameter contains an "all time max" count of the number of rlPHDB tuples inserted on this SM. For SMs, this parameter will always be populated with 512.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 512

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** It is increased, if necessary, when a PIDB is grown in. It is not decreased when a PIDB is degrown. So, in the case of a PIDB degrowth followed by a PIDB growth, it wouldn't be necessary to increase the value of the parameter. The default must equal Glphdbnum.

***Retrofit Rules:*** Should be recalculated over retrofit.

***Default Rules:***
```
default = Glphdbnum;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
      /* RULE about Glmaxphdb.values: */
        begin
                Glmaxphdb >= Glphdbnum;
                Glmaxphdb < (29700 - 3);
/*              Glmaxphdb < ($DBQNPHDB - $DBSFPHDB);*/
        end
end
```

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# Glmaxptsdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmaxptsdb | FP | DMushort |

### 1.1 Glmaxptsdb

Global Office Parameter Glmaxptsdb - maximum peripheral time slot data block

### 1.2 Description

Glmaxptsdb parameter contains a "current" count of the number of rlTSDB tuples inserted on this SM. For SMs, this parameter will always be populated with 0 or Glptsdbnum for SM-2000. It is increased, if necessary, when a PIDB is grown in. It is not decreased when a PIDB is degrown. So, in the case of a PIDB degrowth followed by a PIDB grown, it wouldn't be necessary to increase the value of the parameter.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** /* none */

***Retrofit Rules:*** Should be recalculated over retrofit.

***Default Rules:***

```
default = Glptsdbnum;
```

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
      /* RULE about Glmaxptsdb.values: */
        begin
                Glmaxptsdb >= Glptsdbnum;
/*              Glmaxptsdb < ($DBQNTSDB - $DBSFTSDB);*/
                Glmaxptsdb < (30721 - 1);
        end
emd
```

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# Glmaxterm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmaxterm | FP | DMteila |

### 1.1 Glmaxterm

Global Office Parameter Glmaxterm

***Defines:*** db/DMportindx.h

### 1.2 Description

This attribute contains the maximum number of ISDN terminals that are allowed to be simultaneously active on the SM. It is used for RLteila allocation in conjunction with Glteila. Glmaxterm must be less than or equal to (DBQNTEILA - DBSFTEILA). When Glmaxterm equals (DBQNTEILA - DBSFTEILA), no more ISDN terminals may be added to the SM (such as, cannot add new DSLs or add additional terminals to existing DSLs).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by RC and ODA. It is established by ODA and will be updated by RC as ISDN terminals are assigned or deleted. Its value can increase and decrease.

***Retrofit Rules:*** This parameter should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glmaxterm.values: */

/* Glmaxterm is_in {0 thru (DBQNTEILA - DBSFTEILA)}; */
Glmaxterm is_in {0 thru (16382 - 0)};
```

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```
end

/* RULE about Glmaxterm: */

if (current_pcr is_in sm_all) then
begin
        /*
         * Define a CHK_SERVCLASS macro that checks whether a
         * DSL has either a FC_ISDN or FC_ISATND service class.
         */

        let CHK_SERVCLASS(member, pcr) =
        find == 1 fc_porttyp in RLfc_porttyp on pcr
        where (fc_porttyp.port.member == member &&
                fc_porttyp.port.module == pcr &&
                fc_porttyp.servclass is_in {FC_ISDN, FC_ISATND} &&
                fc_porttyp.port_indx {0:1} == $GLDCH);

        /*
         * Loop through RLdslequip and sum the maxterm values
         * for DSLs with FC_ISDN or FC_ISATND service classes.
         */
        let maxterm = sum {dslequip in RLdslequip
         where (CHK_SERVCLASS(dslequip.dsl,
                 current_pcr) == true)}.maxterm;

        Glmaxterm == maxterm;
end
```

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# Glmaxtkgs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmaxtkgs | LRFR | DMmaxtkgs |

### 1.1 Glmaxtkgs

Global Office Parameter Glmaxtkgs - maximum number of allowed trunk groups per office

### 1.2 Description

This global parameter contains the maximum number of allowed trunk groups per office. The value of this parameter is populated by ODA and can be updated via RC View 8.1 in offices provisioned with the Increase Number of Trunk Groups Feature (SFID172).

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2000

***AM Initial Value:*** 2000

***CMP Initial Value:*** 2000

***RC/ODA Rules:*** This parameter is supported by RC and ODA. The value of this parameter is established by ODA and can be updated via RC View 8.1 when the office is provisioned with the Increase Number of Trunk Groups Feature on RC View 8.22.

```
if (Glmaxtkgs == AVMXTRKGRPS()) then
        SFID172 = DBYES;
```

***Retrofit Rules:*** This value should be preserved during a generic retrofit.

***Default Rules:***

```
default = 2000;
```

***Distribution Rules:***

```
        /* standard */
```

***Import:***

```
AVextern.R
```

***Checks:***

```
/* RULE about Glmaxtkgs.values: */
        Glmaxtkgs is_in {2000, AVMXTRKGRPS()};
```

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# Glmct_hper

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmct_hper | FP | DMbool |

### 1.1 Glmct_hper

Global Office Parameter Glmct_hper

### 1.2 Description

This parameter specifies if a 'mct hold' message is periodic or not. This message is printed if a trunk in the office is held for manual trace.

Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glmct_hper.values: */
        /* no check */ ;
```

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# Glmct_trha

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmct_trha | FP | DMbool |

### 1.1 Glmct_trha

Global Office Parameter Glmct_trha

### 1.2 Description

This parameter indicates if trunk holding is allowed in an office or not. Trunk holding is used to do a manual trace.

Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glmct_trha.values: */
        /* no check */ ;
```

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# Glmct1

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmct1 | FP | DMbool |

### 1.1 Glmct1

Global Office Parameter Glmct1

### 1.2 Description

This parameter specifies if the Register Recall version of MCT is present in the office. This version is only used in Saudi Arabia. This parameter can only be true if Glregrecall is set to DBYES.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glmct1.values: */
        /* no check */ ;
```

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# Glmct2

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmct2 | FP | DMbool |

### 1.1 Glmct2

Global Office Parameter Glmct2

### 1.2 Description

This parameter is set to DBYES if the version 2 of MCT is present in the system. Version 2 of MCT is used in the Netherlands and does the MCT request after disconnect of the call.

Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glmct2.values: */
        /* no check */ ;
```

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# Glmct3

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmct3 | FP | DMbool |

### 1.1 Glmct3

Global Office Parameter Glmct3

### 1.2 Description

This parameter is set to DBYES, if the version 3 of MCT is present in the system. Version 3 is the flash version of MCT, which is used in Saudi Arabia and the Netherlands. If Glmct3 is set to DBYES, then Glmct4 should be DBNO. If Glmct4 is set to DBYES, then Glmct3 should be DBNO.

Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glmct3.values: */
        /* no check */ ;
```

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# Glmct4

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmct4 | FP | DMbool |

### 1.1 Glmct4

Global Office Parameter Glmct4

### 1.2 Description

This parameter is set to DBYES if the version 4 of MCT is present in the system. This flash version of MCT is used in Korea.

Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glmct4.values: */
        /* no check */ ;
```

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# Glmdbnum

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmdbnum | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glmdbnum

### 1.2 Description:

The Glmdbnum global parameter contains an SM's current rlMDB tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***NOTE:*** The algorithm in this file must be the same as the algorithm in fc/FCtrigint/FCmdbcnt.c which is the init code for Glmdbnum. So if the algorithm in this file changes verify that it is consistent with the init code algorithm.

ODA has agreed to make the calculation changes in 5e10 even though the changes were made to this file in 5e11.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as analog, coin or ISDN lines are assigned, DNs are shared, or line time slot bridging is assigned. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
"env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
```

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```
begin

/* RULE about Glmdbnum.values: */

/*      Glmdbnum is_in {0 thru (DBQNMDB - DBSFMDB)};    */
        Glmdbnum is_in {0 thru (65533 - 0)};
end


/* RULE about Glmdbnum: */

function func() returning boolean
begin
        mu = ((Glsdnnum + Gllsdnnum + 2)/3) + ((Glltsbnum + 4)/5);

        sigma = sqrt (mu);

        mdbnum = 4 * (mu + (5 * sigma));

        mu = ( (4 * 180
                  * (Glfexrafs + Glmaxterm + Glcoincnt + Glabrcscnt
                     - Glacdp_cnt)
               ) + 3599
             ) / 3600;

        if ( mu < 0 )
        then begin
                mu = 0;
        end


        sigma = sqrt (mu);

        mdbnum = mdbnum + (3 * (mu + (5 * sigma))) + Glimdb;

        mu = ((Gltrkcnt + 9) / 10);

        sigma = sqrt(mu);

        mdbnum = mdbnum + (3 * (Glbchncnt + Glacdp_cnt + mu +
                                                  ( 5 * sigma)));

/*      if (mdbnum + Glimdb <= (DBQNMDB - DBSFMDB)) then        */
        if (mdbnum + Glimdb <= (65533 - 0)) then
                assert(Glmdbnum >= mdbnum + Glimdb);
        else
/*              assert(Glmdbnum == DBQNMDB - DBSFMDB);  */
                assert(Glmdbnum == 65533 - 0);

        return true;
end
if (runucv) then
begin
if (current_pcr is_in sm_all) then
```

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```
begin
        func();

end
end
```

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# Glmdslcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmdslcnt | FP | DMushort |

### 1.1 Glmdslcnt

Global Office Parameter Glmdslcnt

***Defines:*** db/DMportindx.h

### 1.2 Description

This attribute contains the number of Multi-Point or Standard DSLs. It is used for RLdalb allocation in conjunction with Gldslcnt.

The value is calculated as the number of D-Channel tuples in RLdslequip where RLdslequip.bri_class is BRI_MP or BRI_STD on this SM. If there are no D-Channel RLdslequip tuples where RLdslequip.bri_class is BRI_MP or BRI_STD, Glmdslcnt should be zero.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** The value is calculated as the number of D-Channel tuples in RLdslequip where RLdslequip.bri_class is BRI_MP or BRI_STD on this SM. If there are no D-Channel RLdslequip tuples where RLdslequip.bri_class is BRI_MP or BRI_STD, Glmdslcnt should be zero.

```
- ODA population:
  Glmdslcnt := 0;
  for all tuples in RLdslequip
  begin

     must find exactly 1 tuple in RLfc_porttyp
     where ( RLfc_porttyp.port.member equals RLdslequip.dsl and
             RLfc_porttyp.port.module equals Gl_pcrid )
     when found
     begin
        if ( RLfc_porttyp.port_indx {0:1} equals #GLDCH ) then
           if RLdslequip.bri_class equals BRI_MP or BRI_STD
              Glmdslcnt := Glmdslcnt + 1;

        - RC/V insert of RLdslequip tuple:
```

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```
        if ( RLfc_porttyp.port_indx {0:1} equals #GLDCH ) then
           if RLdslequip.bri_class equals BRI_MP or BRI_STD
              Glmdslcnt := Glmdslcnt + 1;

        - RC/V update of RLdslequip tuple:
        if ( RLfc_porttyp.port_indx {0:1} equals #GLDCH ) then
           if OLD.bri_class is not equal to BRI_MP or BRI_STD
                 AND
           NEW.bri_class equals BRI_MP or BRI_STD
                 Glmdslcnt := Glmdslcnt + 1;
        OR
        if ( RLfc_porttyp.port_indx {0:1} equals #GLDCH ) then
           if OLD.bri_class equals BRI_MP or BRI_STD
                 AND
           NEW.bri_class is not equal to BRI_MP or BRI_STD
                 Glmdslcnt := Glmdslcnt - 1;

        - RC/V deletion of RLdslequip tuple:

        if ( RLfc_porttyp.port_indx {0:1} equals #GLDCH ) then
           if RLdslequip.bri_class equals BRI_MP or BRI_STD
                 Glmdslcnt := Glmdslcnt - 1;
     end

end
```

***Retrofit Rules:*** This parameter should be determined algorithmically for a retrofit to 5E5 and future generics as outlined in the ODA population section.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glmdslcnt.values: */

        /* no check */ ;

/* RULE about Glmdslcnt: */

/*
 * Glmdslcnt must equal the number of Multi-Point
 * and Standard BRI d-channels
 */
Glmdslcnt == count

    { dslequip in RLdslequip where
         (
```

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```
            dslequip.briclass is_in {BRI_MP, BRI_STD} &&
            count
            (
                { fc_porttyp in RLfc_porttyp on current_pcr where
                    (
                       fc_porttyp.port.module == current_pcr &&
                       fc_porttyp.port.member == dslequip.dsl &&
                      fc_porttyp.servclass is_in {FC_ISDN, FC_ISATND} &&
                      fc_porttyp.port_indx{0:1} == $GLDCH
                    )
                }
            ) == 1
        )
    }

/* see RLdslequip.briclass cross-check also */

end
```

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# Glmeasdex

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmeasdex | LR | DMuns7 |

### 1.1 Glmeasdex

Global Office Parameter Glmeasdex

### 1.2 Description

This global parameter is used by the 800 Access Using FGD feature RC/V and measurements and contains the highest index used. It should be initialized to all zeros.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Initially this is set to zero. RC mapping code updates it.

***Retrofit Rules:*** This parameter is evolved from Gloamff: Glmeasdex' = Gloamff{8:14};

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Glmeasdex.values: */
Glmeasdex is_in {0 thru 100};
```

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# Glmecan

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmecan | FR | DMbool |

### 1.1 Glmecan

Global Office Parameter Glmecan

### 1.2 Description

Glmecan, if DBYES, causes the more efficient call handling (MECH) holding announcement to always be played if an operator is not available to service a MECHed call at forward party answer.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glmecan.values: */
Glmecan is_in {DBYES, DBNO};
```

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# Glmecbr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmecbr | FR | DMbool |

### 1.1 Glmecbr

Global Office Parameter Glmecbr

### 1.2 Description

Glmecbr turns on/off branding of the More Efficient Call Handling (MECH) holding announcement.

```
If Glmecbr = DBNO then the unbranded holding announcement is played.
If Glmecbr = DBYES then the branded holding announcement is played.
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glmecbr.values: */
        /* no check */ ;
```

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# Glmecfw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmecfw | FR | DMhex32 |

### 1.1 Glmecfw

Global Office Parameter Glmecfw

### 1.2 Description

This global is used to activate the more efficient call handling (MECH) feature processing. Glmecfw has the following meaning: if 0, MECH is off; if 1, MECH is on; if > 1, Glmecfw is taken to be the port module and member of the test trunk and member for MECH calls. To access the port module and member number Glmechfw must be cast to DMgport. ODA only supports the values 0 and 1. A test trunk can only be entered via Recent Change (RC).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glmecfw.values: */
Glmecfw is_in {0x0 thru 0xFFFFFFFF};
```

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# Glmecmb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmecmb | FR | DMbool |

### 1.1 Glmecmb

Global Office Parameter Glmecmb

### 1.2 Description

Glmecmb specifies whether the back party should be muted at operator seizure. If Glmecmb is DBYES, the back party will be muted when a More Efficient Call Handling (MECH)ed call goes to an operator's position after forward party answer; if DBNO, the back party will not be muted.

***Type :*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBYES;
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glmecmb.values: */
        /* no check */ ;
```

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# Glmecmf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmecmf | FR | DMbool |

### 1.1 Glmecmf

Global Office Parameter Glmecmf

### 1.2 Description

Glmecmf specifies whether the forward party should be muted at operator seizure. If Glmecmf is DBYES, the forward party will be muted when a More Efficient Call Handling (MECH)ed call goes to an operator's position after forward party answer; if DBNO, the forward party will not be muted.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glmecmf.values: */
Glmecmf is_in {DBYES, DBNO};
```

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# Glmecpb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmecpb | FR | DMbool |

### 1.1 Glmecpb

Global Office Parameter Glmecpb

### 1.2 Description

Glmecpb turns on/off More Efficient Call Handling (MECH) processing of person calls. If Glmecpb is DBYES, person calls will be MECHable; if DBNO, person calls will not be eligible for MECH treatment.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBYES;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glmecpb.values: */
        /* no check */ ;
```

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# Glmecrp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmecrp | FR | DMuns8 |

### 1.1 Glmecrp

Global Office Parameter Glmecrp

### 1.2 Description

Glmecrp is the repeat interval in seconds for the More Efficient Call Handling (MECH) holding announcement.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 8

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 8;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glmecrp.values: */
Glmecrp is_in {0 thru 255};
```

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# Glmem_sze

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmem_sze | LR | DMshort |

### 1.1 Fullname:

Global Office Parameter Glmem_sze

### 1.2 Description:

Contains the amount of memory requested for the AM ODD in kilobytes or Kb (1024 bytes = 1 Kilobyte). This number should be on an 8Kb boundary. The values 1024, 2048, 3072, 3200, 3328, 3456, 3584, 3712, 3840, 3968, 4096, 4224, 4352, 4480, 4608, 5120, 5632, 6144, 6656, 7168, 7680, 8192, 8704, 9216, 9728, and 10240 are possible.

The 1024 and 2048 values should be used only for system labs or private building. The values 3712, 3840, 3968, 4096, 4224, 4352, 4480, 4608, 5120, 5632, 6144, 6656, 7168, 7680, 8192, 8704, 9216, 9728, and 10240 are allowed only if an AM ODD requires more than 3584 Kilo bytes. DBGEN needs to support these values and DBM needs to allow them to be valid as a safety measure.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 10240

***CMP Initial Value:*** 10240

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 10240;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
env.R,
chk_apperm.R
```

***Checks:***
```
/* RULE about Glmem_sze.values: */
```

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```
if (runucv) then
Glmem_sze is_in {1024, 2048, 3072, 3200, 3328, 3456, 3584, 3712, 3840, 3968,
                 4096, 4224, 4352, 4480, 4608, 5120, 5632, 6144, 6656, 7168,
                 7680, 8192, 8704, 9216, 9728, 10240};
/* RULE about Glmem_sze in VCDX switches */
/* In the VCDX switch, the AM ODD should be fixed at 4096K.
   Use the function c_aperm to check that a workstation is
   being used for the AM, that is, the AM scan and signal distribute
   board is unequipped.  If so (false), then the memory size is 4096K.
*/
if (c_aperm(PVUSCSD,CONFIGMAX) == false) then
begin
        Glmem_sze is_in {4096};
end
```

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# Glmfc_ans_sup

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmfc_ans_sup | FP | DMbool |

### 1.1 Glmfc_ans_sup

Global Office Parameter Glmfc_ans_sup

### 1.2 Description

This indicates whether the answer line signal should be suppressed on free calls through a tandem exchange when link-by-link MFC signaling is being used. It should only be set to DBNO if the answer timeout feature is used and suppressing answer would cause the call to be abandoned erroneously. It should be noted that if the answer signal is not suppressed, then the call may be charged.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glmfc_ans_sup.values: */
        /* no check */ ;
```

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# Glmh_num

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmh_num | FP | DMshort |

### 1.1 Glmh_num

Global Office Parameter Glmh_num

### 1.2 Description:

This parameter identifies the configuration of "duplex" Message Handlers (MHs) that are operational in an SM-2000. Glmh_num is a 3 bit bitmap where MH0 is the least significant bit and MH2 is the most significant bit. Valid values for Glmh_num and the meanings are:

```
- 0 There are no operational MHs

- 1 MH0 is operational

- 3 MH0 and MH1 are operational

- 5 MH0 and MH2 are operational

- 7 MH0, MH1, and MH2 are operational
```

***Type:*** DBSHORTPAR

***ODBE Access:***

***DBGEN:***

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Glmh_num is updated by Recent Change during MH growth and MH degrowth.

This parameter should not be maintained for a SM.

***Retrofit Rules:*** This value should remain intact during a Generic Retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* populate on all SMs */

        for modatt in RLmodatt
```

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```
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glmh_num: */

BCmh_num:  if (current_pcr is_in {1 thru 192}) then

find == 1 modatt in RLmodatt
where (modatt.module == current_pcr)
when_found
begin
        if ((modatt.unittype != SMSM2000) &&
            (modatt.unittype != SMSM2005)) then

                Glmh_num == 0;  /* Must be an SM-2000 to have MHs */

        else begin              /* SM-2000, count the MHs */

                let mhcnt = count { cktdata in RLcktdata on sm(modatt.module)
                        where ( (cktdata.type == PCMH) &&
                                (cktdata.eqstat == SMOPER) )};

                /* There will be at least 2 MH tuples for MH0 */
                mhcnt is_in {2 thru 6};

                if (mhcnt == 2 || mhcnt == 3) then
                begin
                        Glmh_num == 1;          /* MH0 only */
                end

                else if (mhcnt == 4 || mhcnt == 5) then
                begin
                        /*
                         * There are two pairs of MHs,
                         * for now this can only be MH0 and MH1.
                         * Add logic later to handle case for
                         * MH0 and MH2.
                         */

                        Glmh_num == 3;
                end
                else if (mhcnt == 6) then
                begin
                        /*
                         * There are three pairs of MHs
                         * They are MH0, MH1, and MH2.
                         */
                        Glmh_num == 7;
                end
        end             /* end begin SM-2000 case */

end
```

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# Glminalrm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glminalrm | LR | DMuns7 |

### 1.1 Glminalrm

AMA Disk Writer Minor Alarm

### 1.2 Description

This variable gives the minor alarm setting as a percentage of total AMA disk storage.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 70

***AM Initial Value:*** 70

***CMP Initial Value:*** 70

***RC/ODA Rules:*** ODA and RC support all possible values. The default value is 70.
If the value of Glminalrm is greater than or equal to 0 and less than or equal to 96, then Glminalrm should be at least 2 less than the value of Glmajalrm, given that Glmajalrm is populated with a valid value (2-98), and at least 4 less than the value of Glcritalrm, given that Glcritalrm is populated with a valid value (4-100).

***Checks:***
```
/* Rule about Glminalrm: */
if ((Glminalrm is_greater_than_or_equal_to 0)

    and (Glminalrm is_less_than_or_equal_to 96)) then

begin
      Glminalrm must_be_less_than_or_equal_to Glmajalrm minus 2
      Glminalrm must_be_less_than_or_equal_to Glcritalrm minus 4
end
```

***Retrofit Rules:*** From 5e7 to 5e8 set this variable to the default value of 70. Subsequent retrofits should maintain the value on the switch.

***Default Rules:***
```
default = 70;
```

***Distribution Rules:***
```
/* standard */
```

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***Checks:***

```
/* RULE about Glminalrm.values: */
Glminalrm is_in {0 thru 96};
```

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# Glminfree

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glminfree | FR | DMlong |

### 1.1 Fullname:

Global Office Parameter Glminfree

### 1.2 Description:

This parameter specifies the minimum amount of free space desired in the redundant ODD. ODA should always set this to the default value, which is 256K for a redundant ODD size of 1 Meg. The following algorithm may be used to calculate the free space for redundant ODD size

Glminfree (K) = 128K + (DBractblks - DBrfblk) * 0.20 The RC transactions need 128 K memory and 20% of redundant ODD size for hash re-organization and for growth.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 262144

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 262144;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glminfree.values: */

/*       Glminfree == 128 * 1024 + (DBractblks - DBrfblk) * 20 / 100;    */
```

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# Glminqry

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glminqry | LR | DMuns7 |

### 1.1 Fullname:

Originating Line Number Screening Minimum Query

### 1.2 Description:

This global parameter contains the OLNS software alarm threshold, which is a value for the successful BNS query attempts in a quarter hour. If the threshold value is exceeded, OLNS software alarm calculations are performed.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 40

***CMP Initial Value:*** 40

***RC/ODA Rules:*** This global parameter is controlled by Recent Change View 8.41.

***Retrofit Rules:*** The value of this global parameter should be preserved across a retrofit. When starting a new office with the 5E14 release, the parameter would be set to its default value.

***Default Rules:***
```
default = 40;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glminqry.values: */
/* NOTE: The following values are in decimal. */
        Glminqry is_in {1 thru 64};
```

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# Glminquery

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glminquery | LR | DMuns7 |

### 1.1 Fullname:

AILS minimum number of query attempts

### 1.2 Description:

The Glminquery global parameter holds the AILS minimum query attempts parameter which specifies the minimum number of AILS CCS7 TCAP query attempts required within a quarter hour. The range is 1 to 64, and the default is 40.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 40

***CMP Initial Value:*** 40

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5e9_1 or 5e9_2, this parameter must be set to the value in Gloff3{21:27}.

***Default Rules:***
```
default = 40;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glminquery.values */
        Glminquery is_in {1 thru 64};
```

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# Glmiscoalw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmiscoalw | FR | DMbool |

### 1.1 Glmiscoalw

Global Office Parameter Glmiscoalw

### 1.2 Description

This parameter indicates whether OSPS Quiet Hear Service should be applied on calls that are billed with the following Class-of-Charge designations: Paid, Hotel Room Number, direct distance dialing (DDD), No Charge, Auto Collect. This parameter will also be used to define Quiet Hear eligibility when external routing occurs without Class-of-Charge.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e10.1, this parameter must be set to the value in bit 17 in Gloff6.

***Default Rules:***
```
default = DBYES;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glmiscoalw.values: */

        /* no check */ ;
```

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# Glmisma

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmisma | LRFR | DMbool |

### 1.1 Glmisma

Global Office Parameter Glmisma

### 1.2 Description

This office parameter is used to indicate if U-DSL Network Termination (NT) mismatch detection is turned on or off for the entire switch and will be AM, PIP, SM redundant.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBYES;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glmisma.values: */

        /* no check */ ;
```

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# Glmjr_mdii

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmjr_mdii | FR | DMbool |

### 1.1 Glmjr_mdii

Global Office Parameter Glmjr_mdii

### 1.2 Description

Glmjr_mdii indicates whether a major or minor alarm should be generated if the threshold of Machine Detected Interoffice Irregularities (MDII) is exceeded within the specified time interval.

DBYES indicates a major alarm should be generated.

DBNO indicates a minor alarm should be generated.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glmjr_mdii.values: */

        /* no check */ ;
```

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# Glmm_chgmech

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmm_chgmech | FP | DMuns8 |

### 1.1 Glmm_chgmech

Global Office Parameter Glmm_chgmech

### 1.2 Description

Percentage of time between the last meter signal on answer and the first periodic meter signal, relatively to the interval time (T) of the periodic meter signals. Values derived from the Karlsson inaccuracy interval. 94 for the Netherlands (7/8T - 8/8T), 150 for Saudi Arabia and Colombia (1T - 2T), 100 for most other countries (1T). Used by Export.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 100

***AM Initial Value:*** 100

***CMP Initial Value:*** 100

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glmm_chgmech.values: */

Glmm_chgmech is_in {1 thru 200};

end
```

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# Glmm_hmchdet

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmm_hmchdet | FP | DMhchrgdet |

### 1.1 Glmm_hmchdet

Global Office Parameter Glmm_hmchdet

### 1.2 Description

Charge determination for home meter pulsing when AMA is used. MMCHARGE (charge determination by tariff identity) for most other countries. TOLL_CODE (charge determination by received toll code (MFC)) Saudi Arabia. The range is MMCHARGE (TOLL_CODE).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** MMCHARGE

***AM Initial Value:*** MMCHARGE

***CMP Initial Value:*** MMCHARGE

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glmm_hmchdet.values: */

        /* no check */ ;
```

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# Glmnrcsw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmnrcsw | FP | DMbool |

### 1.1 Glmnrcsw

Global Office Parameter Glmnrcsw

### 1.2 Description

POPULATION: This parameter is group partitioned. The grp_type=GPD_OSPS with grp_id = 1. This means that the parameter should be populated only on operator services position system (OSPS) SMs. In rlMODATT, if the attribute osps_sm equals DBYES, that SM is an OSPS SM.

This parameter indicates whether (DBYES) or not (DBNO) the Basic Services Terminal (BST) or Visual Display Terminal (VDT) monitoring port should be automatically deactivated as having monitoring privileges upon manager log-off. DBYES indicates that the automatic deactivation should occur. DBNO indicates that the automatic deactivation should NOT occur. ODA should initialize this parameter to DBNO.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glmnrcsw.values: */

        /* no check */ ;
```

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# Glmodh_blf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmodh_blf | FP | DMuns8 |

### 1.1 Glmodh_blf

Global Office Parameter Glmodh_blf

### 1.2 Description

This parameter tells how many RLMODH_BLF dynamic tuples should be allocated in each SM.

```
If gltreeablf <= 42 then

   glmodh_blf = gltreeablf

else

   glmodh_blf = 42 + (gltreeablf - 42) div 2
```

ODA, RC and ODBE are required to calculate this parameter according to the previous formula, after either all RLTREE_BLF tuples are allocated and gltreeablf is generated in ODA case, or after a RC/ODBE work is done on RLTREE_BLF relation that the gltreeablf value gets changed.

For RC only, if a new calculated global parameter value is smaller than the current value, but not equal to zero, do not update it. Otherwise do update it.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** On retrofit, preserve existing value

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

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***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glmodh_blf.values: */

Glmodh_blf is_in {0 thru 255};

end
```

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# Glmodm_blf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmodm_blf | FP | DMuns8 |

### 1.1 Glmodm_blf

Global Office Parameter Glmodm_blf

### 1.2 Description

This parameter tells how many RLMODM_BLF dynamic tuples should be allocated in each SM.

```
If gltreeablf <= 42 then

   glmodm_blf = 3 x gltreeablf

else

   glmodm_blf = 126 + (gltreeablf - 42)
```

ODA, RC and ODBE are required to calculate this parameter according to the previous formula, after either all RLTREE_BLF tuples are allocated and gltreeablf is generated in ODA case, or after a RC/ODBE work is done on RLTREE_BLF relation that the gltreeablf value gets changed.

For RC only, if a new calculated global parameter value is smaller than the current value, but not equal to zero, do not update it. Otherwise do update it.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** On retrofit, preserve existing value

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

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***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glmodm_blf.values: */
Glmodm_blf is_in {0 thru 255};

end
```

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# Glmoni1x

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmoni1x | FP | DMlong |

### 1.1 Glmoni1x

Global Office Parameter Glmoni1x

### 1.2 Description

These parameters contain 32 bits each, for a combined total BIT MAP of 256 bits.

In each SM: For each unique number assigned to the index in RLMONI_BLF, the corresponding bit in the global parameter GLMONI1X - GLMONI8X should be set to '1'. Index range: 1 - 255

The lowest order bit of Glmoni1x indicates assignment of index '0'. Since index '0' is not used, this bit should never be set to '1'. The next bit (bit position 1) is used to indicate equipage of index '1', etc.

The lowest order bit of Glmoni2x indicates assignment of index '32', etc.

The global parameter GLMONIABLF is the number of equipped indices (the number of tuples in the SM relation RLMONI_BLF. It also represents the number of bits that should be set to '1' in Glmoni1x - Glmoni8x.

```
           31  30  29            2   1   0

          -------------       -------------

Glmoni1x |   |   |   |  ...  |   |   |   |

          -------------       -------------


           63  62  61           34  33  32

          -------------       -------------

Glmoni2x |   |   |   |  ...  |   |   |   |

          -------------       -------------


           95  94  93           66  65  64

          -------------       -------------

Glmoni3x |   |   |   |  ...  |   |   |   |

          -------------       -------------
```

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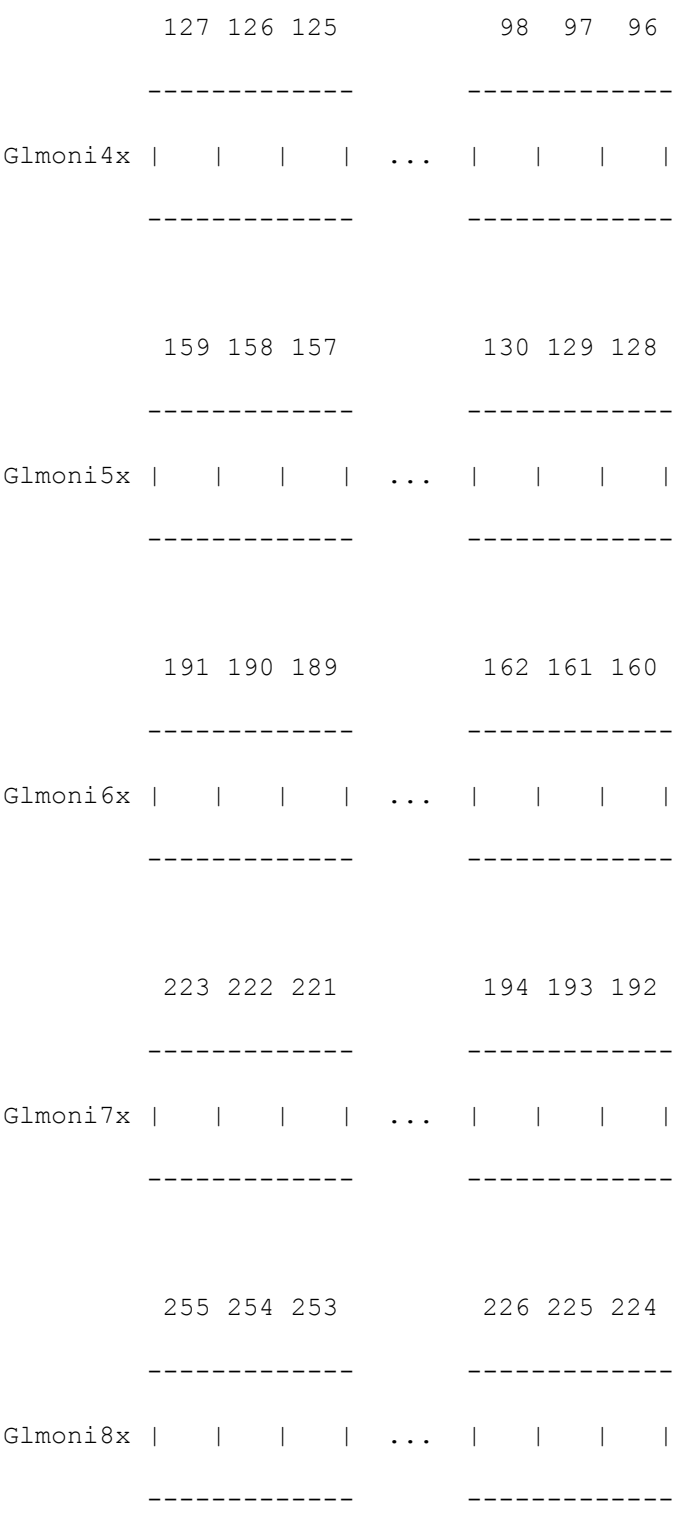


For ODA in each SM:

Every time a new RLMONI_BLF tuple is created, the RLMONI_BLF.index should be assigned the next unassigned positive integer value from 1 - 255, and the corresponding bit in Glmoni1x - Glmoni8x should be set to '1'.

For example: If ODA is used to assign four MLHG or individual DNs from different Hundreds Groups for monitoring

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on this SM, ODA will sequentially assign indices 1, 2, 3, and 4 to the four RLMONI_BLF tuples as they are inserted. The global GLMONIABLF will be set to 4 (indicating that RLMONI_BLF contains four tuples), and bits 1, 2, 3, and 4 in Glmoni1x will be set to '1'. Bits 5 through 31 will remain set to '0'.

```
Glmoni1x =



0000001E (hex)



30        (dec) value

                entered
```

Another example: If ODA is used to assign thirty-three MLHG or individual DNs from different Hundreds Groups for monitoring on this SM, ODA will sequentially assign indices 1 through 33 to the thirty-three RLMONI_BLF tuples as they are inserted. The global GLMONIABLF will be set to 33 (indicating that RLMONI_BLF contains thirty-three tuples), bits 1 through 31 in Glmoni1x will be set to '1', and bits 0 and 1 in Glmoni2x will be set to '1' with bits 2 through 31 remaining set to '0'.

```
Glmoni1x =



FFFFFFFE (hex)



-2        (dec) value

                entered



Glmoni2x =



00000003 (hex)



3         (dec) value

                entered
```

For RC and ODBE in each SM:

When a new RLMONI_BLF tuple is created, the RLMONI_BLF.index should be assigned the first unassigned positive integer value from 1 - 255, and the corresponding bit in Glmoni1x - Glmoni8x should be set to '1'.

For example: If ODA inserted four MLHG or individual DNs from different Hundreds Groups for monitoring in this SM, then indices 1, 2, 3, and 4 have been assigned to the four tuples in RLMONI_BLF, and Glmoni1x bits 1, 2, 3, and 4 will be set to '1'.

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If RC is used to add another MLHG or individual DN from a different Hundreds Group, the index will be assigned the value of 5, GLMONIABLF will be updated to 5 (indicating that RLMONI_BLF contains five tuples), and bit 5 in Glmoni1x will be set to '1'.

```
Glmoni1x =



0000003E (hex)



62        (dec) value

                entered
```

When a RLMONI_BLF tuple is deleted, the RLMONI_BLF.index should be used to reset the corresponding bit in Glmoni1x - Glmoni8x to '0'.

For example: If ODA inserted four MLHG or individual DNs from different Hundreds Groups for monitoring in this SM, then indices 1, 2, 3, and 4 have been assigned to the four tuples in RLMONI_BLF, and Glmoni1x bits 1, 2, 3, and 4 will be set to '1'.

If RC is used to delete a tuple in RLMONI_BLF and the corresponding index is 2, GLMONIABLF will be updated to 3 (indicating that RLMONI_BLF contains three tuples), and bit 2 in Glmoni1x will be reset to '0'. Bits 1, 3, and 4 will remain set to '1'.

```
Glmoni1x =



0000001A (hex)



26        (dec) value

                entered
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

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***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
/* Exists on all SMs */

for this_sm in sm_all

        pcrlist[this_sm] = true;
```

***Checks:***

```
/* RULE about Glmoni1x.values: */

        /* no check */ ;
```

# Glmoni2x

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmoni2x | FP | DMlong |

### 1.1 Glmoni2x

Global Office Parameter Glmoni2x

### 1.2 Description

These parameters contain 32 bits each, for a combined total BIT MAP of 256 bits.

In each SM:

For each unique number assigned to the index in RLMONI_BLF, the corresponding bit in the global parameter GLMONI1X - GLMONI8X should be set to '1'. Index range: 1 - 255

The lowest order bit of Glmoni1x indicates assignment of index '0'. Since index '0' is not used, this bit should never be set to '1'. The next bit (bit position 1) is used to indicate equipage of index '1', etc.

The lowest order bit of Glmoni2x indicates assignment of index '32', etc.

The global parameter GLMONIABLF is the number of equipped indices (the number of tuples in the SM relation RLMONI_BLF. It also represents the number of bits that should be set to '1' in Glmoni1x - Glmoni8x.

```
           31  30  29            2   1   0

          -------------       -------------

Glmoni1x |   |   |   |  ...  |   |   |   |

          -------------       -------------



           63  62  61           34  33  32

          -------------       -------------

Glmoni2x |   |   |   |  ...  |   |   |   |

          -------------       -------------



           95  94  93           66  65  64

          -------------       -------------

Glmoni3x |   |   |   |  ...  |   |   |   |

          -------------       -------------
```

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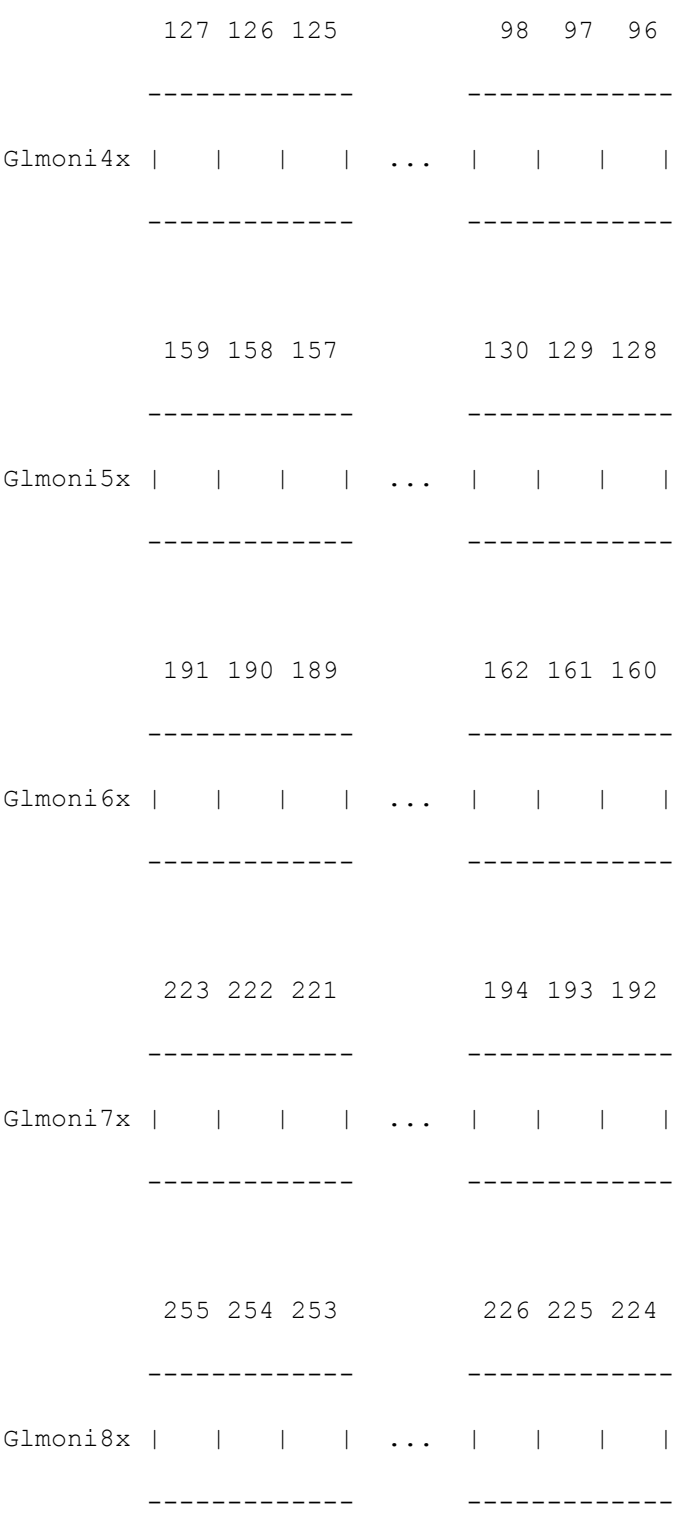


For ODA in each SM:

Every time a new RLMONI_BLF tuple is created, the RLMONI_BLF.index should be assigned the next unassigned positive integer value from 1 - 255, and the corresponding bit in Glmoni1x - Glmoni8x should be set to '1'.

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For example: If ODA is used to assign four MLHG or individual DNs from different Hundreds Groups for monitoring on this SM, ODA will sequentially assign indices 1, 2, 3, and 4 to the four RLMONI_BLF tuples as they are inserted. The global GLMONIABLF will be set to 4 (indicating that RLMONI_BLF contains four tuples), and bits 1, 2, 3, and 4 in Glmoni1x will be set to '1'. Bits 5 through 31 will remain set to '0'.

```
Glmoni1x =



0000001E (hex)



30        (dec) value

                entered
```

Another example: If ODA is used to assign thirty-three MLHG or individual DNs from different Hundreds Groups for monitoring on this SM, ODA will sequentially assign indices 1 through 33 to the thirty-three RLMONI_BLF tuples as they are inserted. The global GLMONIABLF will be set to 33 (indicating that RLMONI_BLF contains thirty-three tuples), bits 1 through 31 in Glmoni1x will be set to '1', and bits 0 and 1 in Glmoni2x will be set to '1' with bits 2 through 31 remaining set to '0'.

```
Glmoni1x =

FFFFFFFE (hex)



-2        (dec) value

entered



Glmoni2x =



00000003 (hex)



3         (dec) value

                entered
```

For RC and ODBE in each SM:

When a new RLMONI_BLF tuple is created, the RLMONI_BLF.index should be assigned the first unassigned positive integer value from 1 - 255, and the corresponding bit in Glmoni1x - Glmoni8x should be set to '1'.

For example: If ODA inserted four MLHG or individual DNs from different Hundreds Groups for monitoring in this SM, then indices 1, 2, 3, and 4 have been assigned to the four tuples in RLMONI_BLF, and Glmoni1x bits 1, 2, 3, and 4 will be set to '1'.

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If RC is used to add another MLHG or individual DN from a different Hundreds Group, the index will be assigned the value of 5, GLMONIABLF will be updated to 5 (indicating that RLMONI_BLF contains five tuples), and bit 5 in Glmoni1x will be set to '1'.

```
Glmoni1x =



0000003E (hex)



62        (dec) value

                entered
```

When a RLMONI_BLF tuple is deleted, the RLMONI_BLF.index should be used to reset the corresponding bit in Glmoni1x - Glmoni8x to '0'.

For example: If ODA inserted four MLHG or individual DNs from different Hundreds Groups for monitoring in this SM, then indices 1, 2, 3, and 4 have been assigned to the four tuples in RLMONI_BLF, and Glmoni1x bits 1, 2, 3, and 4 will be set to '1'.

If RC is used to delete a tuple in RLMONI_BLF and the corresponding index is 2, GLMONIABLF will be updated to 3 (indicating that RLMONI_BLF contains three tuples), and bit 2 in Glmoni1x will be reset to '0'. Bits 1, 3, and 4 will remain set to '1'.

```
Glmoni1x =



0000001A (hex)



26        (dec) value

                entered
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

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***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
/* Exists on all SMs */

for this_sm in sm_all

        pcrlist[this_sm] = true;
```

***Checks:***

```
/* RULE about Glmoni2x.values: */

        /* no check */ ;
```

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# Glmoni3x

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmoni3x | FP | DMlong |

### 1.1 Glmoni3x

Global Office Parameter Glmoni3x

### 1.2 Description

These parameters contain 32 bits each, for a combined total BIT MAP of 256 bits.

In each SM:

For each unique number assigned to the index in RLMONI_BLF, the corresponding bit in the global parameter GLMONI1X - GLMONI8X should be set to '1'. Index range: 1 - 255

The lowest order bit of Glmoni1x indicates assignment of index '0'. Since index '0' is not used, this bit should never be set to '1'. The next bit (bit position 1) is used to indicate equipage of index '1', etc.

The lowest order bit of Glmoni2x indicates assignment of index '32', etc.

The global parameter GLMONIABLF is the number of equipped indices (the number of tuples in the SM relation RLMONI_BLF. It also represents the number of bits that should be set to '1' in Glmoni1x - Glmoni8x.

```
           31  30  29            2   1   0

          -------------       -------------

Glmoni1x |   |   |   |  ...  |   |   |   |

          -------------       -------------



           63  62  61           34  33  32

          -------------       -------------

Glmoni2x |   |   |   |  ...  |   |   |   |

          -------------       -------------



           95  94  93           66  65  64

          -------------       -------------

Glmoni3x |   |   |   |  ...  |   |   |   |

          -------------       -------------
```

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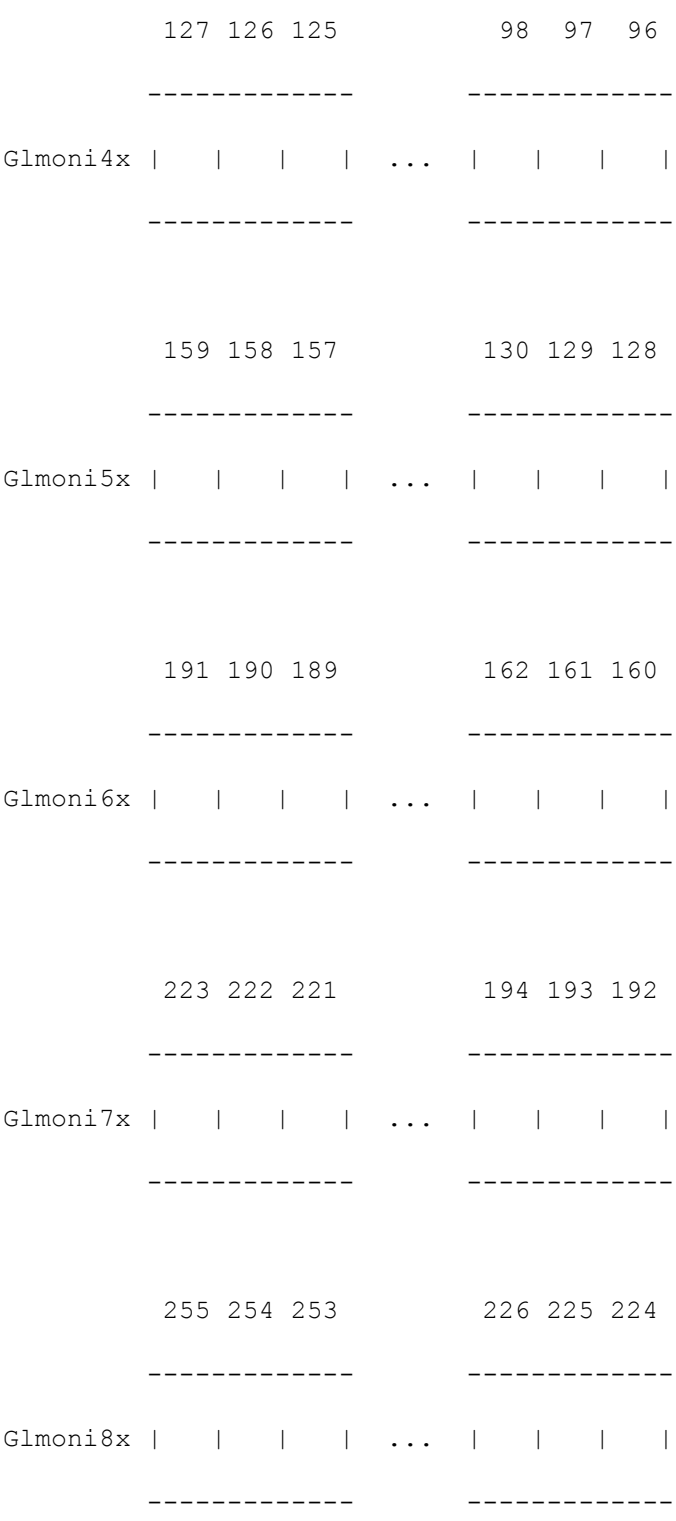


For ODA in each SM:

Every time a new RLMONI_BLF tuple is created, the RLMONI_BLF.index should be assigned the next unassigned positive integer value from 1 - 255, and the corresponding bit in Glmoni1x - Glmoni8x should be set to '1'.

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For example: If ODA is used to assign four MLHG or individual DNs from different Hundreds Groups for monitoring on this SM, ODA will sequentially assign indices 1, 2, 3, and 4 to the four RLMONI_BLF tuples as they are inserted. The global GLMONIABLF will be set to 4 (indicating that RLMONI_BLF contains four tuples), and bits 1, 2, 3, and 4 in Glmoni1x will be set to '1'. Bits 5 through 31 will remain set to '0'.

```
Glmoni1x =

0000001E (hex)



30        (dec) value

                entered
```

Another example: If ODA is used to assign thirty-three MLHG or individual DNs from different Hundreds Groups for monitoring on this SM, ODA will sequentially assign indices 1 through 33 to the thirty-three RLMONI_BLF tuples as they are inserted. The global GLMONIABLF will be set to 33 (indicating that RLMONI_BLF contains thirty-three tuples), bits 1 through 31 in Glmoni1x will be set to '1', and bits 0 and 1 in Glmoni2x will be set to '1' with bits 2 through 31 remaining set to '0'.

```
Glmoni1x =



FFFFFFFE (hex)



-2        (dec) value

                entered



Glmoni2x =



00000003 (hex)



3         (dec) value

                entered
```

For RC and ODBE in each SM:

When a new RLMONI_BLF tuple is created, the RLMONI_BLF.index should be assigned the first unassigned positive integer value from 1 - 255, and the corresponding bit in Glmoni1x - Glmoni8x should be set to '1'.

For example: If ODA inserted four MLHG or individual DNs from different Hundreds Groups for monitoring in this SM, then indices 1, 2, 3, and 4 have been assigned to the four tuples in RLMONI_BLF, and Glmoni1x bits 1, 2, 3, and 4 will be set to '1'.

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If RC is used to add another MLHG or individual DN from a different Hundreds Group, the index will be assigned the value of 5, GLMONIABLF will be updated to 5 (indicating that RLMONI_BLF contains five tuples), and bit 5 in Glmoni1x will be set to '1'.

```
Glmoni1x =

0000003E (hex)



62       (dec) value

               entered
```

When a RLMONI_BLF tuple is deleted, the RLMONI_BLF.index should be used to reset the corresponding bit in Glmoni1x - Glmoni8x to '0'.

For example: If ODA inserted four MLHG or individual DNs from different Hundreds Groups for monitoring in this SM, then indices 1, 2, 3, and 4 have been assigned to the four tuples in RLMONI_BLF, and Glmoni1x bits 1, 2, 3, and 4 will be set to '1'.

If RC is used to delete a tuple in RLMONI_BLF and the corresponding index is 2, GLMONIABLF will be updated to 3 (indicating that RLMONI_BLF contains three tuples), and bit 2 in Glmoni1x will be reset to '0'. Bits 1, 3, and 4 will remain set to '1'.

```
Glmoni1x =



0000001A (hex)



26       (dec) value

entered
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

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```
default = 0;
```

***Distribution Rules:***

```
/* Exists on all SMs */

for this_sm in sm_all

        pcrlist[this_sm] = true;
```

***Checks:***

```
/* RULE about Glmoni3x.values: */

        /* no check */ ;
```

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# Glmoni4x

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmoni4x | FP | DMlong |

### 1.1 Glmoni4x

Global Office Parameter Glmoni4x

### 1.2 Description

These parameters contain 32 bits each, for a combined total BIT MAP of 256 bits.

In each SM:

For each unique number assigned to the index in RLMONI_BLF, the corresponding bit in the global parameter GLMONI1X - GLMONI8X should be set to '1'. Index range: 1 - 255

The lowest order bit of Glmoni1x indicates assignment of index '0'. Since index '0' is not used, this bit should never be set to '1'. The next bit (bit position 1) is used to indicate equipage of index '1', etc.

The lowest order bit of Glmoni2x indicates assignment of index '32', etc.

The global parameter GLMONIABLF is the number of equipped indices (the number of tuples in the SM relation RLMONI_BLF. It also represents the number of bits that should be set to '1' in Glmoni1x - Glmoni8x.

```
           31  30  29            2   1   0

          -------------       -------------

Glmoni1x |   |   |   |  ...  |   |   |   |

          -------------       -------------


            63  62  61          34  33  32

          -------------       -------------

Glmoni2x |   |   |   |  ...  |   |   |   |

          -------------       -------------


           95  94  93           66  65  64

          -------------       -------------

Glmoni3x |   |   |   |  ...  |   |   |   |

          -------------       -------------
```

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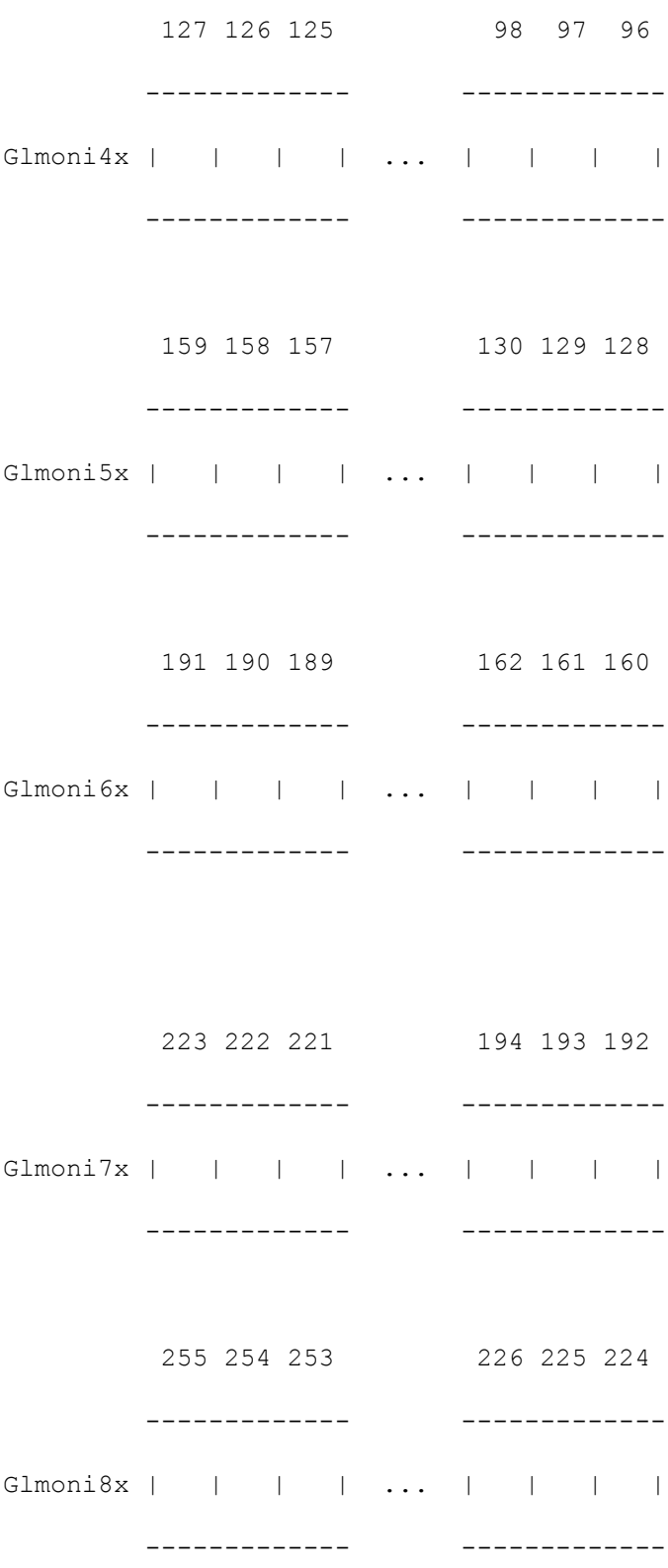


For ODA in each SM:

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Every time a new RLMONI_BLF tuple is created, the RLMONI_BLF.index should be assigned the next unassigned positive integer value from 1 - 255, and the corresponding bit in Glmoni1x - Glmoni8x should be set to '1'.

For example: If ODA is used to assign four MLHG or individual DNs from different Hundreds Groups for monitoring on this SM, ODA will sequentially assign indices 1, 2, 3, and 4 to the four RLMONI_BLF tuples as they are inserted. The global GLMONIABLF will be set to 4 (indicating that RLMONI_BLF contains four tuples), and bits 1, 2, 3, and 4 in Glmoni1x will be set to '1'. Bits 5 through 31 will remain set to '0'.

```
Glmoni1x =



0000001E (hex)



30        (dec) value

                entered
```

Another example: If ODA is used to assign thirty-three MLHG or individual DNs from different Hundreds Groups for monitoring on this SM, ODA will sequentially assign indices 1 through 33 to the thirty-three RLMONI_BLF tuples as they are inserted. The global GLMONIABLF will be set to 33 (indicating that RLMONI_BLF contains thirty-three tuples), bits 1 through 31 in Glmoni1x will be set to '1', and bits 0 and 1 in Glmoni2x will be set to '1' with bits 2 through 31 remaining set to '0'.

```
Glmoni1x =



FFFFFFFE (hex)



-2        (dec) value

                entered



Glmoni2x =



00000003 (hex)



3         (dec) value

                entered
```

For RC and ODBE in each SM:

When a new RLMONI_BLF tuple is created, the RLMONI_BLF.index should be assigned the first unassigned positive integer value from 1 - 255, and the corresponding bit in Glmoni1x - Glmoni8x should be set to '1'.

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For example: If ODA inserted four MLHG or individual DNs from different Hundreds Groups for monitoring in this SM, then indices 1, 2, 3, and 4 have been assigned to the four tuples in RLMONI_BLF, and Glmoni1x bits 1, 2, 3, and 4 will be set to '1'.

If RC is used to add another MLHG or individual DN from a different Hundreds Group, the index will be assigned the value of 5, GLMONIABLF will be updated to 5 (indicating that RLMONI_BLF contains five tuples), and bit 5 in Glmoni1x will be set to '1'.

```
Glmoni1x =



0000003E (hex)



62        (dec) value

                entered
```

When a RLMONI_BLF tuple is deleted, the RLMONI_BLF.index should be used to reset the corresponding bit in Glmoni1x - Glmoni8x to '0'.

For example: If ODA inserted four MLHG or individual DNs from different Hundreds Groups for monitoring in this SM, then indices 1, 2, 3, and 4 have been assigned to the four tuples in RLMONI_BLF, and Glmoni1x bits 1, 2, 3, and 4 will be set to '1'.

If RC is used to delete a tuple in RLMONI_BLF and the corresponding index is 2, GLMONIABLF will be updated to 3 (indicating that RLMONI_BLF contains three tuples), and bit 2 in Glmoni1x will be reset to '0'. Bits 1, 3, and 4 will remain set to '1'.

```
Glmoni1x =



0000001A (hex)



26        (dec) value

                entered
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

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***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Exists on all SMs */

for this_sm in sm_all

        pcrlist[this_sm] = true;
```

***Checks:***
```
/* RULE about Glmoni4x.values: */

        /* no check */ ;
```

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# Glmoni5x

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmoni5x | FP | DMlong |

### 1.1 Glmoni5x

Global Office Parameter Glmoni5x

### 1.2 Description

These parameters contain 32 bits each, for a combined total BIT MAP of 256 bits.

In each SM:

For each unique number assigned to the index in RLMONI_BLF, the corresponding bit in the global parameter GLMONI1X - GLMONI8X should be set to '1'. Index range: 1 - 255

The lowest order bit of Glmoni1x indicates assignment of index '0'. Since index '0' is not used, this bit should never be set to '1'. The next bit (bit position 1) is used to indicate equipage of index '1', etc.

The lowest order bit of Glmoni2x indicates assignment of index '32', etc.

The global parameter GLMONIABLF is the number of equipped indices (the number of tuples in the SM relation RLMONI_BLF. It also represents the number of bits that should be set to '1' in Glmoni1x - Glmoni8x.

```
           31  30  29            2   1   0

          -------------       -------------

Glmoni1x |   |   |   |  ...  |   |   |   |

          -------------       -------------


           63  62  61           34  33  32

          -------------       -------------

Glmoni2x |   |   |   |  ...  |   |   |   |

          -------------       -------------


           95  94  93           66  65  64

          -------------       -------------

Glmoni3x |   |   |   |  ...  |   |   |   |

          -------------       -------------
```

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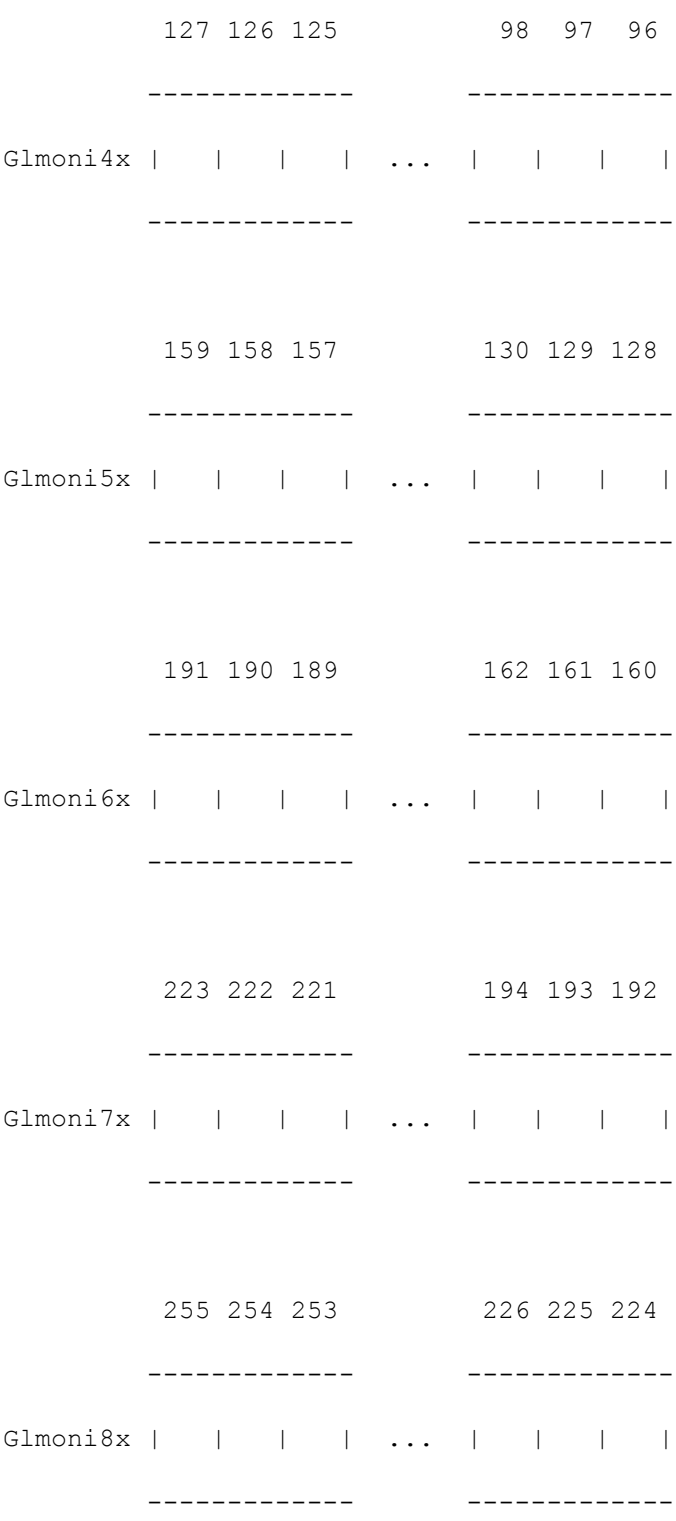


For ODA in each SM:

Every time a new RLMONI_BLF tuple is created, the RLMONI_BLF.index should be assigned the next unassigned positive integer value from 1 - 255, and the corresponding bit in Glmoni1x - Glmoni8x should be set to '1'.

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For example: If ODA is used to assign four MLHG or individual DNs from different Hundreds Groups for monitoring on this SM, ODA will sequentially assign indices 1, 2, 3, and 4 to the four RLMONI_BLF tuples as they are inserted. The global GLMONIABLF will be set to 4 (indicating that RLMONI_BLF contains four tuples), and bits 1, 2, 3, and 4 in Glmoni1x will be set to '1'. Bits 5 through 31 will remain set to '0'.

```
Glmoni1x =



0000001E (hex)



30        (dec) value

                entered
```

Another example: If ODA is used to assign thirty-three MLHG or individual DNs from different Hundreds Groups for monitoring on this SM, ODA will sequentially assign indices 1 through 33 to the thirty-three RLMONI_BLF tuples as they are inserted. The global GLMONIABLF will be set to 33 (indicating that RLMONI_BLF contains thirty-three tuples), bits 1 through 31 in Glmoni1x will be set to '1', and bits 0 and 1 in Glmoni2x will be set to '1' with bits 2 through 31 remaining set to '0'.

```
Glmoni1x =



FFFFFFFE (hex)



-2        (dec) value

                entered



Glmoni2x =



00000003 (hex)



3         (dec) value

                entered
```

For RC and ODBE in each SM:

When a new RLMONI_BLF tuple is created, the RLMONI_BLF.index should be assigned the first unassigned positive integer value from 1 - 255, and the corresponding bit in Glmoni1x - Glmoni8x should be set to '1'.

For example: If ODA inserted four MLHG or individual DNs from different Hundreds Groups for monitoring in this SM, then indices 1, 2, 3, and 4 have been assigned to the four tuples in RLMONI_BLF, and Glmoni1x bits 1, 2, 3,

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and 4 will be set to '1'.

If RC is used to add another MLHG or individual DN from a different Hundreds Group, the index will be assigned the value of 5, GLMONIABLF will be updated to 5 (indicating that RLMONI_BLF contains five tuples), and bit 5 in Glmoni1x will be set to '1'.

```
Glmoni1x =



0000003E (hex)



62        (dec) value

                entered
```

When a RLMONI_BLF tuple is deleted, the RLMONI_BLF.index should be used to reset the corresponding bit in Glmoni1x - Glmoni8x to '0'.

For example: If ODA inserted four MLHG or individual DNs from different Hundreds Groups for monitoring in this SM, then indices 1, 2, 3, and 4 have been assigned to the four tuples in RLMONI_BLF, and Glmoni1x bits 1, 2, 3, and 4 will be set to '1'.

If RC is used to delete a tuple in RLMONI_BLF and the corresponding index is 2, GLMONIABLF will be updated to 3 (indicating that RLMONI_BLF contains three tuples), and bit 2 in Glmoni1x will be reset to '0'. Bits 1, 3, and 4 will remain set to '1'.

```
Glmoni1x =



0000001A (hex)



26        (dec) value

entered
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

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***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
/* Exists on all SMs */

for this_sm in sm_all

        pcrlist[this_sm] = true;
```

***Checks:***

```
/* RULE about Glmoni5x.values: */

        /* no check */ ;
```

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# Glmoni6x

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmoni6x | FP | DMlong |

### 1.1 Glmoni6x

Global Office Parameter Glmoni6x

### 1.2 Description

These parameters contain 32 bits each, for a combined total BIT MAP of 256 bits.

In each SM:

For each unique number assigned to the index in RLMONI_BLF, the corresponding bit in the global parameter GLMONI1X - GLMONI8X should be set to '1'. Index range: 1 - 255

The lowest order bit of Glmoni1x indicates assignment of index '0'. Since index '0' is not used, this bit should never be set to '1'. The next bit (bit position 1) is used to indicate equipage of index '1', etc.

The lowest order bit of Glmoni2x indicates assignment of index '32', etc.

The global parameter GLMONIABLF is the number of equipped indices (the number of tuples in the SM relation RLMONI_BLF. It also represents the number of bits that should be set to '1' in Glmoni1x - Glmoni8x.

```
            31  30  29            2   1   0

          -------------       -------------

Glmoni1x |   |   |   |  ...  |   |   |   |

          -------------       -------------



            63  62  61          34  33  32

          -------------       -------------

Glmoni2x |   |   |   |  ...  |   |   |   |

          -------------       -------------



            95  94  93          66  65  64

          -------------       -------------

Glmoni3x |   |   |   |  ...  |   |   |   |

          -------------       -------------
```

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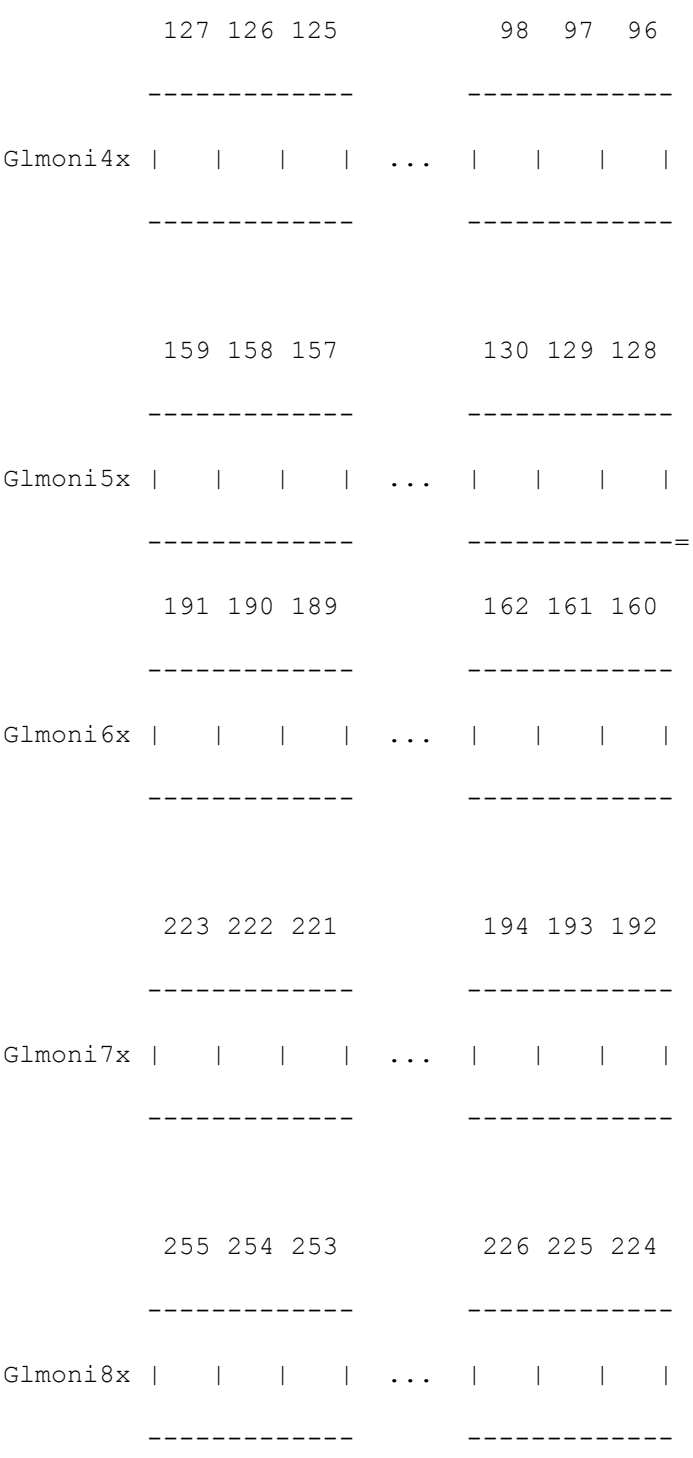


For ODA in each SM: Every time a new RLMONI_BLF tuple is created, the RLMONI_BLF.index should be assigned the next unassigned positive integer value from 1 - 255, and the corresponding bit in Glmoni1x - Glmoni8x should be set to '1'.

For example: If ODA is used to assign four MLHG or individual DNs from different Hundreds Groups for monitoring on this SM, ODA will sequentially assign indices 1, 2, 3, and 4 to the four RLMONI_BLF tuples as they are inserted.

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The global GLMONIABLF will be set to 4 (indicating that RLMONI_BLF contains four tuples), and bits 1, 2, 3, and 4 in Glmoni1x will be set to '1'. Bits 5 through 31 will remain set to '0'.

```
Glmoni1x =



0000001E (hex)



30        (dec) value

                entered
```

Another example: If ODA is used to assign thirty-three MLHG or individual DNs from different Hundreds Groups for monitoring on this SM, ODA will sequentially assign indices 1 through 33 to the thirty-three RLMONI_BLF tuples as they are inserted. The global GLMONIABLF will be set to 33 (indicating that RLMONI_BLF contains thirty-three tuples), bits 1 through 31 in Glmoni1x will be set to '1', and bits 0 and 1 in Glmoni2x will be set to '1' with bits 2 through 31 remaining set to '0'.

```
Glmoni1x =



FFFFFFFE (hex)



-2        (dec) value

                entered



Glmoni2x =



00000003 (hex)



3         (dec) value

                entered
```

For RC and ODBE in each SM:

When a new RLMONI_BLF tuple is created, the RLMONI_BLF.index should be assigned the first unassigned positive integer value from 1 - 255, and the corresponding bit in Glmoni1x - Glmoni8x should be set to '1'.

For example: If ODA inserted four MLHG or individual DNs from different Hundreds Groups for monitoring in this SM, then indices 1, 2, 3, and 4 have been assigned to the four tuples in RLMONI_BLF, and Glmoni1x bits 1, 2, 3, and 4 will be set to '1'.

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If RC is used to add another MLHG or individual DN from a different Hundreds Group, the index will be assigned the value of 5, GLMONIABLF will be updated to 5 (indicating that RLMONI_BLF contains five tuples), and bit 5 in Glmoni1x will be set to '1'.

```
Glmoni1x =

0000003E (hex)



62        (dec) value

                entered
```

When a RLMONI_BLF tuple is deleted, the RLMONI_BLF.index should be used to reset the corresponding bit in Glmoni1x - Glmoni8x to '0'.

For example: If ODA inserted four MLHG or individual DNs from different Hundreds Groups for monitoring in this SM, then indices 1, 2, 3, and 4 have been assigned to the four tuples in RLMONI_BLF, and Glmoni1x bits 1, 2, 3, and 4 will be set to '1'.

If RC is used to delete a tuple in RLMONI_BLF and the corresponding index is 2, GLMONIABLF will be updated to 3 (indicating that RLMONI_BLF contains three tuples), and bit 2 in Glmoni1x will be reset to '0'. Bits 1, 3, and 4 will remain set to '1'.

```
Glmoni1x =



0000001A (hex)



26        (dec) value

                entered
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

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```
default = 0;
```

***Distribution Rules:***

```
/* Exists on all SMs */

for this_sm in sm_all

        pcrlist[this_sm] = true;
```

***Checks:***

```
/* RULE about Glmoni6x.values: */

        /* no check */ ;
```

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# Glmoni7x

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmoni7x | FP | DMlong |

### 1.1 Glmoni7x

Global Office Parameter Glmoni7x

### 1.2 Description

These parameters contain 32 bits each, for a combined total BIT MAP of 256 bits.

In each SM:

For each unique number assigned to the index in RLMONI_BLF, the corresponding bit in the global parameter GLMONI1X - GLMONI8X should be set to '1'. Index range: 1 - 255

The lowest order bit of Glmoni1x indicates assignment of index '0'. Since index '0' is not used, this bit should never be set to '1'. The next bit (bit position 1) is used to indicate equipage of index '1', etc.

The lowest order bit of Glmoni2x indicates assignment of index '32', etc.

The global parameter GLMONIABLF is the number of equipped indices (the number of tuples in the SM relation RLMONI_BLF. It also represents the number of bits that should be set to '1' in Glmoni1x - Glmoni8x.

```
           31  30  29            2   1   0

          -------------       -------------

Glmoni1x |   |   |   |  ...  |   |   |   |

          -------------       -------------




           63  62  61           34  33  32

          -------------       -------------

Glmoni2x |   |   |   |  ...  |   |   |   |

          -------------       -------------




           95  94  93           66  65  64

          -------------       -------------
```

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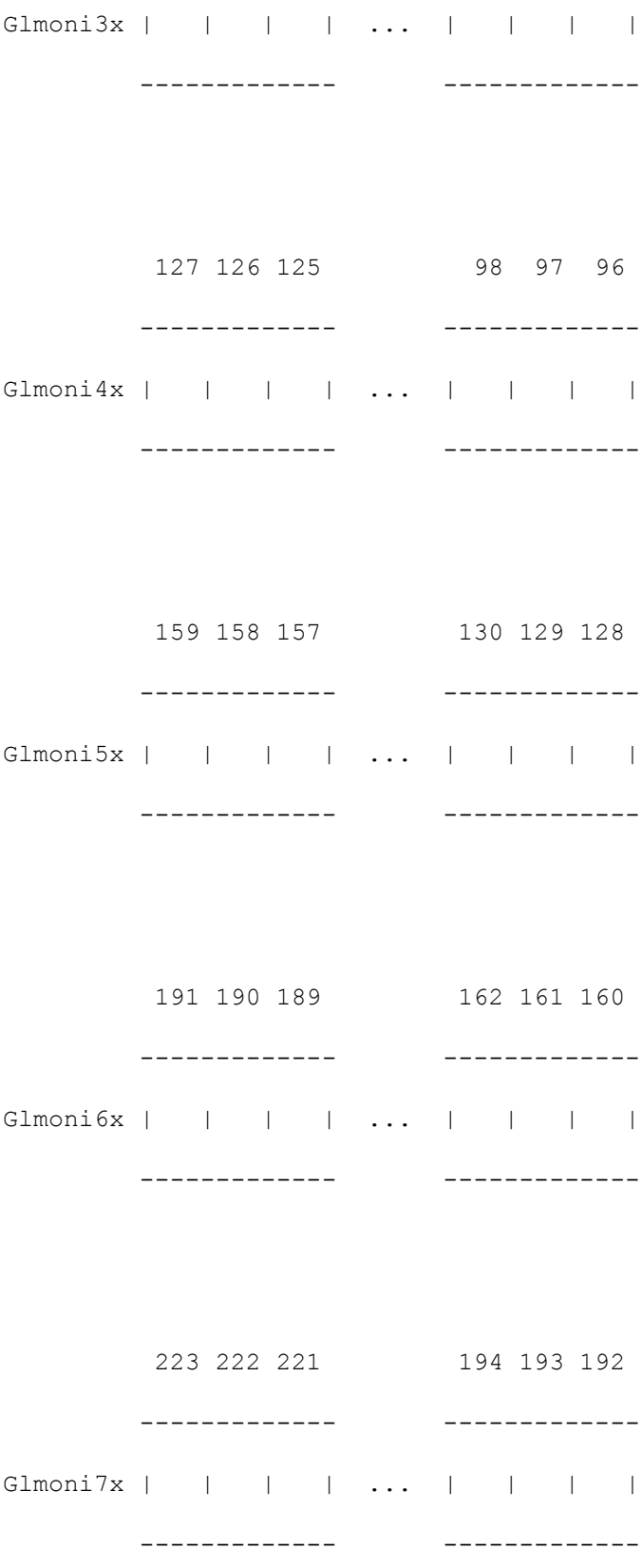


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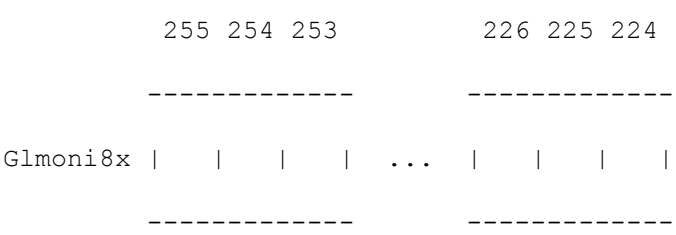


For ODA in each SM:

Every time a new RLMONI_BLF tuple is created, the RLMONI_BLF.index should be assigned the next unassigned positive integer value from 1 - 255, and the corresponding bit in Glmoni1x - Glmoni8x should be set to '1'.

For example: If ODA is used to assign four MLHG or individual DNs from different Hundreds Groups for monitoring on this SM, ODA will sequentially assign indices 1, 2, 3, and 4 to the four RLMONI_BLF tuples as they are inserted. The global GLMONIABLF will be set to 4 (indicating that RLMONI_BLF contains four tuples), and bits 1, 2, 3, and 4 in Glmoni1x will be set to '1'. Bits 5 through 31 will remain set to '0'.

```
Glmoni1x =


0000001E (hex)


30       (dec) value

               entered
```

Another example: If ODA is used to assign thirty-three MLHG or individual DNs from different Hundreds Groups for monitoring on this SM, ODA will sequentially assign indices 1 through 33 to the thirty-three RLMONI_BLF tuples as they are inserted. The global GLMONIABLF will be set to 33 (indicating that RLMONI_BLF contains thirty-three tuples), bits 1 through 31 in Glmoni1x will be set to '1', and bits 0 and 1 in Glmoni2x will be set to '1' with bits 2 through 31 remaining set to '0'.

```
Glmoni1x =


FFFFFFFE (hex)


-2       (dec) value

               entered


Glmoni2x =
```

```
00000003 (hex)


3         (dec) value

                entered
```

For RC and ODBE in each SM:

When a new RLMONI_BLF tuple is created, the RLMONI_BLF.index should be assigned the first unassigned positive integer value from 1 - 255, and the corresponding bit in Glmoni1x - Glmoni8x should be set to '1'.

For example: If ODA inserted four MLHG or individual DNs from different Hundreds Groups for monitoring in this SM, then indices 1, 2, 3, and 4 have been assigned to the four tuples in RLMONI_BLF, and Glmoni1x bits 1, 2, 3, and 4 will be set to '1'.

If RC is used to add another MLHG or individual DN from a different Hundreds Group, the index will be assigned the value of 5, GLMONIABLF will be updated to 5 (indicating that RLMONI_BLF contains five tuples), and bit 5 in Glmoni1x will be set to '1'.

```
Glmoni1x =


0000003E (hex)


62        (dec) value

                entered
```

When a RLMONI_BLF tuple is deleted, the RLMONI_BLF.index should be used to reset the corresponding bit in Glmoni1x - Glmoni8x to '0'.

For example: If ODA inserted four MLHG or individual DNs from different Hundreds Groups for monitoring in this SM, then indices 1, 2, 3, and 4 have been assigned to the four tuples in RLMONI_BLF, and Glmoni1x bits 1, 2, 3, and 4 will be set to '1'.

If RC is used to delete a tuple in RLMONI_BLF and the corresponding index is 2, GLMONIABLF will be updated to 3 (indicating that RLMONI_BLF contains three tuples), and bit 2 in Glmoni1x will be reset to '0'. Bits 1, 3, and 4 will remain set to '1'.

```
Glmoni1x =


0000001A (hex)


26        (dec) value

                entered
```

***Type:*** DBLONGPAR

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***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Exists on all SMs */

for this_sm in sm_all

        pcrlist[this_sm] = true;
```

***Checks:***
```
/* RULE about Glmoni7x.values: */

        /* no check */ ;
```

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# Glmoni8x

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmoni8x | FP | DMlong |

### 1.1 Glmoni8x

Global Office Parameter Glmoni8x

### 1.2 Description

These parameters contain 32 bits each, for a combined total BIT MAP of 256 bits.

In each SM:

For each unique number assigned to the index in RLMONI_BLF, the corresponding bit in the global parameter GLMONI1X - GLMONI8X should be set to '1'. Index range: 1 - 255

The lowest order bit of Glmoni1x indicates assignment of index '0'. Since index '0' is not used, this bit should never be set to '1'. The next bit (bit position 1) is used to indicate equipage of index '1', etc.

The lowest order bit of Glmoni2x indicates assignment of index '32', etc.

The global parameter GLMONIABLF is the number of equipped indices (the number of tuples in the SM relation RLMONI_BLF. It also represents the number of bits that should be set to '1' in Glmoni1x - Glmoni8x.

```
            31  30  29            2   1   0

          -------------       -------------

Glmoni1x |   |   |   |  ...  |   |   |   |

          -------------       -------------



            63  62  61          34  33  32

          -------------       -------------

Glmoni2x |   |   |   |  ...  |   |   |   |

          -------------       -------------




            95  94  93          66  65  64

          -------------       -------------

Glmoni3x |   |   |   |  ...  |   |   |   |
```

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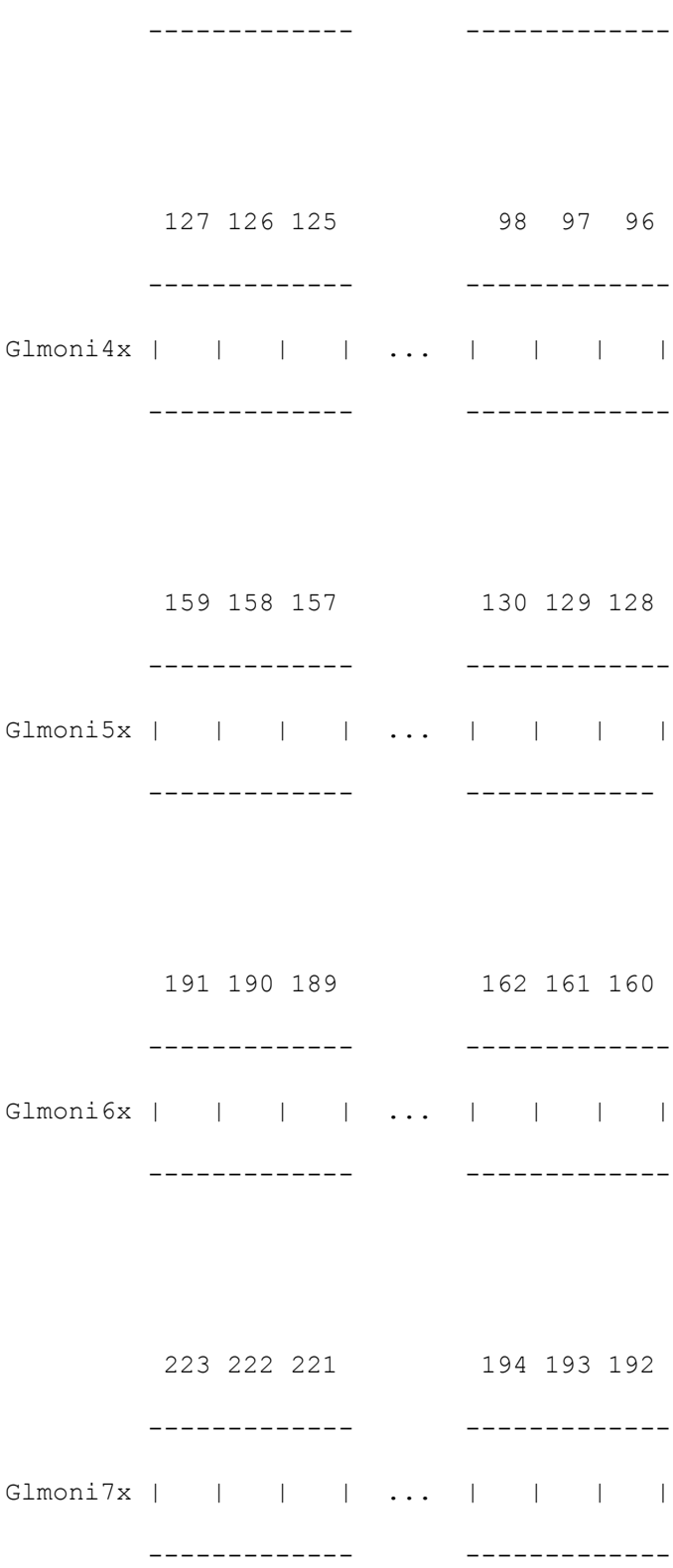


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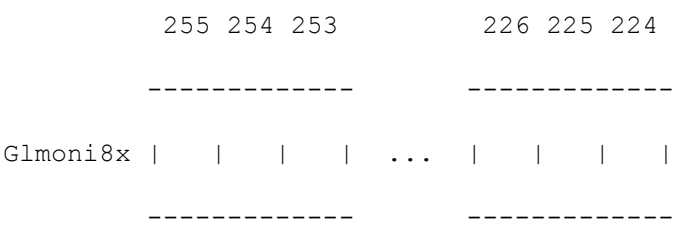


For ODA in each SM:

Every time a new RLMONI_BLF tuple is created, the RLMONI_BLF.index should be assigned the next unassigned positive integer value from 1 - 255, and the corresponding bit in Glmoni1x - Glmoni8x should be set to '1'.

For example: If ODA is used to assign four MLHG or individual DNs from different Hundreds Groups for monitoring on this SM, ODA will sequentially assign indices 1, 2, 3, and 4 to the four RLMONI_BLF tuples as they are inserted. The global GLMONIABLF will be set to 4 (indicating that RLMONI_BLF contains four tuples), and bits 1, 2, 3, and 4 in Glmoni1x will be set to '1'. Bits 5 through 31 will remain set to '0'.

```
Glmoni1x =



0000001E (hex)



30       (dec) value

               entered
```

Another example: If ODA is used to assign thirty-three MLHG or individual DNs from different Hundreds Groups for monitoring on this SM, ODA will sequentially assign indices 1 through 33 to the thirty-three RLMONI_BLF tuples as they are inserted. The global GLMONIABLF will be set to 33 (indicating that RLMONI_BLF contains thirty-three tuples), bits 1 through 31 in Glmoni1x will be set to '1', and bits 0 and 1 in Glmoni2x will be set to '1' with bits 2 through 31 remaining set to '0'.

```
Glmoni1x =



FFFFFFFE (hex)



-2       (dec) value

               entered



Glmoni2x =



00000003 (hex)
```

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```
3        (dec) value

               entered
```

For RC and ODBE in each SM:

When a new RLMONI_BLF tuple is created, the RLMONI_BLF.index should be assigned the first unassigned positive integer value from 1 - 255, and the corresponding bit in Glmoni1x - Glmoni8x should be set to '1'.

For example: If ODA inserted four MLHG or individual DNs from different Hundreds Groups for monitoring in this SM, then indices 1, 2, 3, and 4 have been assigned to the four tuples in RLMONI_BLF, and Glmoni1x bits 1, 2, 3, and 4 will be set to '1'.

If RC is used to add another MLHG or individual DN from a different Hundreds Group, the index will be assigned the value of 5, GLMONIABLF will be updated to 5 (indicating that RLMONI_BLF contains five tuples), and bit 5 in Glmoni1x will be set to '1'.

```
Glmoni1x =



0000003E (hex)



62       (dec) value

               entered
```

When a RLMONI_BLF tuple is deleted, the RLMONI_BLF.index should be used to reset the corresponding bit in Glmoni1x - Glmoni8x to '0'.

For example: ` If ODA inserted four MLHG or individual DNs from different Hundreds Groups for monitoring in this SM, then indices 1, 2, 3, and 4 have been assigned to the four tuples in RLMONI_BLF, and Glmoni1x bits 1, 2, 3, and 4 will be set to '1'.

If RC is used to delete a tuple in RLMONI_BLF and the corresponding index is 2, GLMONIABLF will be updated to 3 (indicating that RLMONI_BLF contains three tuples), and bit 2 in Glmoni1x will be reset to '0'. Bits 1, 3, and 4 will remain set to '1'.

```
Glmoni1x =



0000001A (hex)



26       (dec) value

               entered
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

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***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Exists on all SMs */

for this_sm in sm_all

        pcrlist[this_sm] = true;
```

***Checks:***
```
/* RULE about Glmoni8x.values: */

        /* no check */ ;
```

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# Glmoniablf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmoniablf | FP | DMuns8 |

### 1.1 Glmoniablf

Global Office Parameter Glmoniablf

### 1.2 Description

In each SM, this parameter is used to count how many RLMONI_BLF tuples are assigned. For ODA, count how many RLMONI_BLF tuples per SM. If no tuples are found, set to default value of 0. For RC and ODBE, if a RLMONI_BLF tuple is added to a SM, the Glmoniablf in the SM should be incremented by one. Each time a RLMONI_BLF tuple is deleted, this Glmoniablf will be decremented by one.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Exists on all SMs */

for this_sm in sm_all

        pcrlist[this_sm] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glmoniablf.values: */

Glmoniablf is_in {0 thru 255};
```

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```
end
```

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# Glmpc_alw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmpc_alw | LP | DMbool |

### 1.1 Fullname:

Global Office Parameter Glmpc_alw.

### 1.2 Description:

This parameter is used to determine if the Multiple Point Code feature may be used. If Glmpc_alw is set to DBYES, multiple local point codes (OPCs) for the same Standardization Sector (SS7) (formerly CCITT7) network may be defined. Otherwise, a limit of one local point code per network applies.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ---

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** Note that the Multiple Point Code feature is supported, therefore Glmpc_alw is populated with DBYES.

***Retrofit Rules:*** None.

***Default Rules:***

```
default = DBYES;
```

***Distribution Rules:***

```
        pcrlist[193] = true;
```

***Checks:***

```
/* Glmpc_alw should be equal to DBYES */
Glmpc_alw on am == DBYES;
```

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# Glmrvt_alw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmrvt_alw | LR | DMbool |

### 1.1 Fullname:

Global Office Parameter Glmrvt_alw

### 1.2 Description:

This global parameter controls the activation of the MTP Route Verification Test portion of the OMAP feature. In US release, OMAP is not a secured feature. Hence, this feature will be available to all customers with the 5e13(1) release.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ---

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** This global parameter cannot be modified via recent change. The global parameter will always contain DBYES.

***Retrofit Rules:*** The value of Glmrvt_alw should be preserved over retrofit.

***Default Rules:***
```
default = DBYES;
```

***Distribution Rules:***

***Checks:***
```
        Glmrvt_alw == DBYES;
```

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# Glmrvt_int

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmrvt_int | FP | DMuchar |

### 1.1 Fullname:

Global Office Parameter Glmrvt_int

### 1.2 Description:

This Global Parameter is used to indicate the maximum number of OMAP MTP Route Verification Tests this SS7 National or International GSM is allowed to run concurrently as an Intermediate node in the Network or an SCCP end point.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 25

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Glmrvt_int cannot be modified via Recent Change. The value of Glmrvt_int should be 25.

***Retrofit Rules:*** The value of Glmrvt_int should be preserved over retrofit.

***Default Rules:***

```
default = 25;
```

***Distribution Rules:***

```
        for modatt in RLmodatt
        begin
                pcrlist[modatt.module] = true;
        end
```

***Checks:***

```
        Glmrvt_int == 25;
```

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# Glmrvt_loc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmrvt_loc | FP | DMuchar |

### 1.1 Fullname:

Global Office Parameter Glmrvt_loc

### 1.2 Description:

This Global Parameter is used to indicate the maximum number of Locally generated OMAP MTP Route Verification Tests allowed to be run concurrently in this SS7 National or International GSM.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 5

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Glmrvt_loc can be modified via the MRVT LOCAL field on Recent Change view 16.4 (RC_OMAP) or ODA form RC_OMAP.

***Retrofit Rules:*** The value of Glmrvt_loc should be preserved over retrofit.

***Default Rules:***
```
default = 5;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        begin
                pcrlist[modatt.module] = true;
        end
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/*
 * This Parameter will be used only on a SS7
 * National or International Global SM.
 */

        if ((Glnatl7sm == current_pcr) ||
```

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```
                (Glintl7sm == current_pcr)) then
        begin
                Glmrvt_loc is_in {1 thru 5};
        end
        else
        begin
                Glmrvt_loc == 5;
        end

end
```

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# Glmrvtact

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmrvtact | FP | DMbool |

### 1.1 Fullname:

Global Office Parameter Glmrvtact

### 1.2 Description:

This global parameter controls the use of the MTP Route Verification Test portion of the OMAP feature on a per GSM basis. If the MRVT applications are allowed to run on a GSM, the value of this global parameter on the GSM is set to DBYES. In US, Glmrvtact is set to DBYES on all global switching modules.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** The value of Glmrvtact should be DBYES on a GSM. On a switching module, Glmrvtact should be DBNO.
If an SM is defined as a GSM via an insert operation on RC view 16.1 (CCGSM) or on ODA form CCGSM, Glmrvtact should be updated to DBYES. If a GSM is deleted via RC view 16.1 (CCGSM) or ODA form CCGSM, Glmrvtact should be updated to DBNO.

***Retrofit Rules:*** The value of Glmrvtact should be preserved over retrofit.

***Default Rules:***

```
if (Gl_pcrid is_in sm_all) then
begin
     if ((Glnatl7sm == Gl_pcrid) ||
     (Glintl7sm == Gl_pcrid)) then
     begin
            default = DBYES;
     end
     else
     begin
            default = DBNO;
     end
end
```

***Distribution Rules:***

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```
        for modatt in RLmodatt
        begin
                pcrlist[modatt.module] = true;
        end
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

        if ((Glnatl7sm == current_pcr) ||
                (Glintl7sm == current_pcr)) then
        begin
                Glmrvtact == DBYES;
        end
        else
        begin
                Glmrvtact == DBNO;
        end
end
```

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# Glmsbnd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmsbnd | LR | DMshort |

### 1.1 Glmsbnd

Global Office Parameter Glmsbnd

### 1.2 Description

This parameter indicates the quarter hour boundary on which traffic data is reported. It has 4 values: 0, 15, 30 and 45 corresponding to on the hour, quarter after the hour, thirty minutes after the hour and quarter before the hour. This parameter is interpreted by traffic measurements only if the Glmstmci parameter is set to the half hour or hourly reporting intervals.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glmsbnd.values: */

Glmsbnd is_in {0 thru 45};
```

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# Glmscavs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmscavs | LP | DMlong |

### 1.1 Glmscavs

Traffic Measurements Buffer Available Space

### 1.2 Description

This parameter will contain the remaining size in the EADAS buffer according to the information contained in the selectivity relations concerning what sections and associated components are selected for collection. This parameter will be set by the AS Subsystem and it will be read by RC/V.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** ---

***SM Initial Value:*** ---

***AM Initial Value:*** 1

***CMP Initial Value:*** 1

***RC/ODA Rules:*** ODA should set this value to the default when the switch is first brought up, but the customer will not have access to it.

***Retrofit Rules:*** During retrofit set this value back to the default value.

***Default Rules:***

```
/*
* The default value is used to prohibit the selection
* of additional Section components until Traffic
* Measurements re-calculates the size of the EADAS
* buffer.
*/

default = 1;
```

***Distribution Rules:***

```
        pcrlist[193] = true;
```

***Checks:***

```
Glmscavs on am is_in {-75000 thru 75000};
```

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# Glmschshbd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmschshbd | LPFP | DMbool |

### 1.1 Glmschshbd

Global Office Parameter Glmschshbd

### 1.2 Description

This Global Parameter indicates the Traffic Measurements Internal processor's hash tables have to be updated for the selectivity data for Traffic Measurements. The Traffic Measurements application will be setting this parameter.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** ---

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***

```
Recent Change - No modification to this parameter is required.

ODA           - Initialize the parameter to its defaults only.
```

***Retrofit Rules:*** None

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
/* the AM and all SMs should be in the distribution */
   pcrlist[0] = true;

   for modatt in RLmodatt

   pcrlist[modatt.module] = true;
```

***Checks:***

```
None
```

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# Glmscprtud

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmscprtud | LP | DMbool |

### 1.1 Fullname:

Global Office Parameter Glmscprtud (Measurements Print Update)

### 1.2 Description:

This Global Parameter indicates whether Traffic Measurements has Internal Data Structures which need to be updated for the ROP printing data. The Traffic Measurements application will be setting this parameter.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ---

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** This parameter cannot be modified by Recent Change. ODA should preserve value from database during a retrofit.

***Retrofit Rules:*** See EVL.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/*  This global parameter should be on the AM  */
        pcrlist[0] = true;
```

***Checks:***
```
Glmscprtud on am is_in {DBNO, DBYES};
```

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# Glmscselud

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmscselud | LPFP | DMbool |

### 1.1 Glmscselud

Global Office Parameter Glmscselud

### 1.2 Description

This Global Parameter indicates the Traffic Measurements has Internal Data Structures to be updated for the selectivity data for Traffic Measurements. The Traffic Measurements application will be setting this parameter.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** ---

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***

```
Recent Change - No modification to this parameter is required.

ODA           - Initialize the parameter to its defaults only.
```

***Retrofit Rules:*** None.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
/* the AM and all SMs should be in the distribution */

   pcrlist[0] = true;

   for modatt in RLmodatt

   pcrlist[modatt.module] = true;
```

***Checks:***

```
None.
```

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# Glmsdls

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmsdls | FP | DMuns2 |

### 1.1 Glmsdls

Global Office Parameter Glmsdls

### 1.2 Description

This parameter specifies the quantity of Management Information System (MIS) data link DSLs that are connected to the SM. This parameter is populated by ODA and RC but does not appear on any view. Each SM's parameter is set to the number of RLDLDSL tuples in that SM with the servclass attribute set to OA_MIS_LNK.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glmsdls.values: */

Glmsdls is_in {0 thru 3};

end
```

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# Glmsexc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmsexc | LR | DMbool |

### 1.1 Glmsexc

Global Office Parameter Glmsexc

### 1.2 Description

Office dependent state whether the office has purchased the exception reporting option or not.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glmsexc.values: */

        /* no check */ ;
```

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# Glmsfrbc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmsfrbc | LR | DMulong |

### 1.1 Fullname:

Count of FRBCs in the switch

### 1.2 Description:

This global parameter counts the FRBCs equipped.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Not applicable.

***Retrofit Rules:*** Not applicable.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
function FRBCcnt() returning int
begin
        cnt=0;  /* no FRBCs have been found yet. */
        for pcr in sm_all
        begin
                for dslgdata in RLdslgdata on pcr
                begin
                        if (dslgdata.dsltype == PS_FRBCG) then
                        begin
                                cnt = cnt + dslgdata.cdma_cnt;
                        end
                end
        end
        return cnt;
```

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```
end

Glmsfrbc == FRBCcnt();
```

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# Glmshmbudg

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmshmbudg | LP | DMlong |

### 1.1 Fullname:

Global Office Parameter Glmshmbudg (Measurements HM Budget)

### 1.2 Description:

Glmshmbudg contains the number of ROP message units (in microseconds) remaining in the hourly printing budget. The Traffic Measurements application will set this parameter.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 100000

***CMP Initial Value:*** 100000

***RC/ODA Rules:***

```
Recent Change - No modification to this parameter is required.
                This global parameter will be displayed on
                measurements RC views 13.7, 13.8, and 13.9.
 ODA - ODA should preserve the parameter value during retrofit.
```

***Retrofit Rules:*** See EVL.

***Default Rules:***

```
default = 100000;
```

***Distribution Rules:***

```
/* The global parameter should be on the am */
        pcrlist[0] = true;
```

***Checks:***

```
Glmshmbudg on am is_in { -256000 thru 256000};
```

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# Glmslubk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmslubk | LR | DMpercent |

### 1.1 Glmslubk

Global Office Parameter Glmslubk

### 1.2 Description

Exception checking office dependent parameter for percent of blocked calls per line unit.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** 0

***AM Initial Value:*** 5

***CMP Initial Value:*** 5

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glmslubk.values: */

Glmslubk is_in {0 thru 100};
```

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# Glmsmwida

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmsmwida | FP | DMushort |

### 1.1 Fullname:

Count of RLmsmwida tuples present in an SM

### 1.2 Description:

The Glmsmwida global parameter contains an SM's current RLmsmwida tuple count. It is verified during SM initializations and updated as tuples are inserted via trigger functions. This global parameter is used for Software Resource Engineering.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as inter-switch voice messaging systems are assigned or unassigned.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glmsmwida.values: */

/* Glmsmwida is_in { 0 thru (DBQNMSMWID - DBSFMSMWID) }; */
Glmsmwida is_in { 0 thru (1023 - 0) };
```

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```
if (runucv) then
begin


/* RULE about Glmsmwida: */

        if (Glapivc > 0) then
        begin
                let msmwida = 20 + (30 * Glapivc);

/*              if (msmwida + Glimsmwida <= (DBQNMSMWID -
                                             DBSFMSMWID)) then */
                if (msmwida + Glimsmwida <= (1023 - 0)) then
                        Glmsmwida >= msmwida + Glimsmwida;
                else
/*                      Glmsmwida == DBQNMSMWID - DBSFMSMWID; */
                        Glmsmwida == 1023 - 0;
        end
        else
        begin
                Glmsmwida >= 0;
        end
end

end
```

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# Glmsrtbr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmsrtbr | LR | DMmsrtbr |

### 1.1 Glmsrtbr

Global Office Parameter Glmsrtbr

### 1.2 Description

Internal rate at which traffic measurement output messages are sent to the local terminal in milliseconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 20000

***CMP Initial Value:*** 20000

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glmsrtbr.values: */

Glmsrtbr is_in {5000, 10000, 20000};
```

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# Glmsrtov

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmsrtov | LR | DMpercent |

### 1.1 Glmsrtov

Global Office Parameter Glmsrtov

### 1.2 Description

This parameter indicates the trunk group (route) overload percentage threshold. For each bulk traffic interval the OP-RTOV message will be sent to the AOM for each trunk group that exceeds this threshold or has stopped exceeding this threshold. This parameter is interpreted by traffic measurements.

Used by Export.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1

***AM Initial Value:*** 1

***CMP Initial Value:*** 1

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glmsrtov.values: */

Glmsrtov is_in {0 thru 100};
```

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# Glmssaccnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmssaccnt | FP | DMushort |

### 1.1 Glmssaccnt

Count of ports having MSS Auto Call features on an SM

### 1.2 Description

The Glmssaccnt global parameter contains an SM's count of ports having Message Service System (MSS) Auto Call features. Its value is maintained over all initializations and updated via RC as MSS features are assigned or deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by RC and ODA. The value of this parameter is established by ODA and will be updated by RC when message service system auto call features are assigned or deleted. Its value can increase and decrease.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glmssaccnt.values: */

Glmssaccnt is_in {0 thru 65535};

end
```

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```
/* RULE about Glmssaccnt: */
if ( current_pcr is_in sm_all ) then
begin
        /*
         * Define a MSS_CHECK macro that checks whether an MSS
         * feature allows auto call set up.
         */
        let MSS_CHECK(feat_id) =
          find == 1 mds_opts in RLmds_opts
          where ((mds_opts.feat_id == feat_id) &&
                 (mds_opts.aucsu == DBYES));

        /*
         * Loop through RLmds_port and count tuples that allow
         * auto call.
         */
        Glmssaccnt == count { mds_port in RLmds_port
          where ((MSS_CHECK(mds_port.feat_id) == true) &&
                 (mds_port.lead_module == current_pcr)) };
end
```

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# Glmssellst

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmssellst | LP | DMuns9 |

### 1.1 Fullname:

Global Office Parameter Glmssellst

### 1.2 Description:

This global parameter will contain the number of tuples currently found in the relation RLmssellst.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** ---

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** When inserting tuple(s) into the relation RLmssellst, this Global Parameter must be incremented by the number of tuples inserted into the relation. When deleting tuple(s) from this relation RLmssellst, decrement this Global Parameter by the number of tuples deleted from the relation.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - LP */
        ;
```

***Checks:***
```
Glmssellst on cmp== count{t in RLmssellst};

Glmssellst on cmp is_in {0 thru 394};
```

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# Glmsstat

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmsstat | LR | DMmsstat |

### 1.1 Glmsstat

Global Office Parameter Glmsstat

### 1.2 Description

Processing the state of traffic measurements. This parameter indicates the type of traffic measurement reports to be printed. Allowed values are:

```
ASSECT_RPT - section reports are printed,

ASSUM_RPT - summary reports are printed,

ASBOTH_RPT - both summary and section reports are printed.
```

The parameter exists only in the AM.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ASSUM_RPT

***CMP Initial Value:*** ASSUM_RPT

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glmsstat.values: */

Glmsstat is_in {ASSECT_RPT, ASSUM_RPT, ASBOTH_RPT};
```

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# Glmssydy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmssydy | LR | DMpercent |

### 1.1 Glmssydy

Global Office Parameter Glmssydy

### 1.2 Description

Exception checking data for percent of delayed calls per office.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** 0

***AM Initial Value:*** 5

***CMP Initial Value:*** 5

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glmssydy.values: */

Glmssydy is_in {0 thru 100};
```

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# Glmstgbk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmstgbk | LR | DMpercent |

### 1.1 Glmstgbk

Global Office Parameter Glmstgbk

### 1.2 Description

Exception checking office dependent parameter for percent of blocked calls per trunk group.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** 0

***AM Initial Value:*** 5

***CMP Initial Value:*** 5

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glmstgbk.values: */

Glmstgbk is_in {0 thru 100};
```

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# Glmstmci

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmstmci | LR | DMmstmci |

### 1.1 Glmstmci

Global Office Parameter Glmstmci

### 1.2 Description

Frequency of the traffic bulk collection interval in millisec. For 5ee1(2), this parameter's domain has 1 additional value (900000) than domestic. This corresponds to the number of milliseconds in 15 minutes. The default for Export is 900000.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 3600000

***CMP Initial Value:*** 3600000

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glmstmci.values: */

Glmstmci is_in {900000 thru 3600000};
```

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# Glmstmr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmstmr | FR | DMuns4 |

### 1.1 Glmstmr

CCS Global Office Parameter ISVM Timer

### 1.2 Description

This parameter is used by the ISVM feature for 5E7 and later software releases. It specifies the timeout value for an ISVM TCAP response message. This parameter should be populated in all SMs. The value is specified in seconds. This office parameter will be added to RC/V View 8.15 and to ODA form OFC_OPT.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 3

***AM Initial Value:*** 3

***CMP Initial Value:*** 3

***RC/ODA Rules:*** The default value is 3 seconds.

***Retrofit Rules:*** When retrofiting to 5e7, the value of the global parameter must be set to 3.

***Default Rules:***
```
default = 3;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glmstmr.values: */

Glmstmr is_in {1 thru 10};
```

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# Glmsusgtyp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmsusgtyp | LR | DMusgtyp |

### 1.1 Glmsusgtyp

Global Office Parameter Glmsusgtyp

### 1.2 Description

Defines what unit of measurement the traffic usage measurements are reported in. The allowed units are CCS, or ERLANG. CCS is defined as hundred call seconds, and ERLANG is another unit of telephone traffic measurement.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ERLANG

***CMP Initial Value:*** ERLANG

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glmsusgtyp.values: */

Glmsusgtyp is_in {CCS, ERLANG};
```

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# Glmtp_acct

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmtp_acct | FP | DMbool |

### 1.1 Glmtp_acct

Global Office Parameter Glmtp_acct

### 1.2 Description

This Global Parameter is used to indicate that the Global SM is performing or has the capability of performing message accounting functionality.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ***NOTE:*** The MTP Accounting feature isn't supported; therefore Glmtp_acct should be populated with DBNO.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
for gsm_opc in RLgsm_opc

begin

     pcrlist[gsm_opc.gsm] = true;

end
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
       /* Glmtp_acct should equal DBNO. */
       Glmtp_acct == DBNO;
end
```

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# Glmtpstpo

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmtpstpo | FP | DMbool |

### 1.1 Fullname:

Global Office Parameter Glmtpstpo

### 1.2 Description:

This global parameter is used to indicate if the MTP Short Term Processor Outage (STPO) software is enabled for the particular CCS global SM. By default, the functionality is enabled for all global SMs. Some older SM processors configured with a large number of Destination Point Codes (DPCs) may not be able to support the STPO functionality due to the functionalities realtime and capacity needs. Thus this variable can be used to disable the STPO functionality on a need-to basis.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** /* None */

***Retrofit Rules:*** /* None */

***Default Rules:***

```
default = DBYES;
```

***Distribution Rules:***

```
for i in {1 thru 192}
begin
        if(Glintl7sm != 0) then
                pcrlist[Glintl7sm] = true;
        if(Glnatl7sm != 0) then
                pcrlist[Glnatl7sm] = true;
end
```

***Checks:***

```
        /* None */
```

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# Glmttst

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmttst | LR | DMmttst |

### 1.1 Glmttst

Global Office Parameter Glmttst

### 1.2 Description

Determine which set of tests should be used for TLWS manual transmission testing: TMLSSS - tests conform to LSSS (domestic) standards, TMCCITT - tests conform to Telecommunication Standardization Sector (TSS) (formerly CCITT) (Int'l) standards.

Used only by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** TMCCITT

***CMP Initial Value:*** TMCCITT

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glmttst.values: */

Glmttst is_in {TMLSSS, TMCCITT};
```

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# Glmxmon

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glmxmon | LP | DMuns8 |

### 1.1 Glmxmon

Global Office Parameter Glmxmon

### 1.2 Description

This parameter is used to set a limit on the maximum number of Multiline Hunt Group (MLHG) queue monitor consoles allowed in the office. A queue monitor console is an ISDN terminal which can display MLHG queue status data. There is exactly one tuple in RLmontoq per office for each queue monitor console. Glmxmon will be read by RC/V. The value of Glmxmon should be kept on the CMP and the AM value of Glmxmon should be 0.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 20

***CMP Initial Value:*** 20

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** ODA should preserve the existing value in retrofit

***Default Rules:***
```
default = 20;
```

***Distribution Rules:***
```
/* standard - LP ( CMP ) */

;
```

***Checks:***
```
/* RULE about Glmxmon.values: */

Glmxmon on cmp is_in {0 thru 255};
```

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## 3.24 Gln

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# Gln7rstopt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gln7rstopt | FP | DMccrstopt |

### 1.1 Gln7rstopt

Global Office Parameter Gln7rstopt.

### 1.2 Description

Gln7rstopt contains the information needed for the route set test option in National SS7 (formerly CCITT7). RST is used to query an APC to test the accessibility of a destination that it could serve. This information is across all SM's, but is not in the AM.

The parameter is not recent changeable.

CCRSTOFF: Neither initialization nor change back RST options are being used.

CCRSTINIT: Initialization, but not change back, RST options are being used.

CCRSTCB: Change back, but not initialization, options are being used.

CCRSTALL: Both initialization and change back RST options are being used.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** CCRSTOFF

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** If SS7 (formerly CCITT7) is not being used, set the parameter to CCRSTOFF.

***Retrofit Rules:*** None.

***Default Rules:***

```
default = CCRSTOFF;
```

***Distribution Rules:***

```
for i in {1 thru 192}
begin
        if (Glnatl7sm on sm(i) != 0) then
            pcrlist[Glnatl7sm on sm(i)] = true;
end
```

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***Checks:***

```
if (current_pcr is_in sm_all) then
begin
        /* Gln7rstopt should equal CCRSTOFF. */
        Gln7rstopt == CCRSTOFF;
end
```

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# Glna7_alpc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glna7_alpc | FR | DMpt_code |

### 1.1 Glna7_alpc

Global Office Parameter Alternate point code Glna7_alpc

### 1.2 Description

This parameter holds the CCS7 (North American version of CCITT7) alias point code for this office.

***Type:*** DBULONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ***NOTE:*** No CCS7 signaling links are supported, therefore Glna7_alpc should be populated with 0.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* Glna7_alpc should equal 0. */
   Glna7_alpc == 0;
```

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# Glna7_pc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glna7_pc | LRFR | DMpt_code |

### 1.1 Glna7_pc

Global Office Parameter for Point Code, Glna7_pc

### 1.2 Description

This parameter holds the CCS7 (North American version of CCITT7) point code for this office.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 16777215

***AM Initial Value:*** 16777215

***CMP Initial Value:*** 16777215

***RC/ODA Rules:*** ***NOTE:*** No CCS7 signaling links are supported, therefore Glna7_pc should be populated with 16777215.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 16777215;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
if (current_pcr is_in sm_all) then
      /* Glna7_pc should equal 16777215. */
      Glna7_pc == 16777215;
      end
```

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# Glnacc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnacc | FP | DMbool |

### 1.1 Glnacc

Non-English Announcements for Card Calls Feature Activation Parameter

### 1.2 Description

This global is used to activate processing the Non-English Announcements for Card Calls (NACC) feature. NACC provides the ability to play announcements for card calls in languages other than English. This parameter has the following meaning:

```
 if N, NACC processing is off
 if Y, NACC processing is on.
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parameters, so FP is specified */
/* here.  The group partitioning should be:               */
/*      RLdb_gpdus.grp_type = GPD_OSPS                    */
/*      RLdb_gpdus.grp_id   = 4                           */

pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***

```
PLgpd_defs.R
```

***Checks:***

```
/* RULE about Glnacc.values: */
```

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```
        /* no check */ ;

/* RULE about Glnacc: */
if (current_pcr is_in sm_all) then
begin

/* CAS ON must be activated before NACC can be activated */
if (Glnacc == DBYES) then
begin
        Glcas_on == DBYES;   /* 9.1 */
end

end
```

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# Glnaicarid

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnaicarid | FR | DMbcarid |

### 1.1 Fullname:

Carrier Identifier for Network Access Interrupt (NAI) traffic.

**Defines:** db/DMcarr_val.h

### 1.2 Description:

This parameter specifies the carrier used for Network Access Interrupt (NAI) traffic.

Please look in db/DMcarr_val.G for #defines used in this file.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10000

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** On the RC/ODA form, unknown is mapped to #NULL_BCARID.

***Retrofit Rules:*** When retrofitting from 5e9.1 or 5e9.2, this parameter must be set to the value in bits 4 - 17 in Gloff8, and #NULL_BCARID is mapped to unknown.

***Default Rules:***
```
default = $NULL_BCARID;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glnaicarid.values: */

Glnaicarid is_in {0 thru $FGDMAXBCAR, $NULL_BCARID};

/* RULE about Glnaicarid: */
```

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```
if (Glnaicarid != $NULL_BCARID) then
begin
        if (runucv) then
        find == 1 fc_carr in RLfc_carr
        where (atoi (fc_carr.carrid) == Glnaicarid);   /* 10.1 */
end
```

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# Glnaiindrp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnaiindrp | FR | DMindettmt |

### 1.1 Glnaiindrp

Indeterminate treatment parameter for Network Access Interrupt (NAI) traffic.

### 1.2 Description

This parameter is used to determine whether deny treatment is given when LAC CCS7 TCAP query replies are returned as indeterminate. DENY indicates that call completion is not allowed, ALLOW indicates call completion is allowed.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ALLOW

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** When retrofiting from 5e9.1 or 5e9.2, this parameter must be set to the value in Gloff8{3}.

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = ALLOW;
```

***Distribution Rules:*** /* standard */

***Checks:***

```
        /* no check */
```

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# Glnaimnqry

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnaimnqry | LR | DMuns7 |

### 1.1 Fullname:

Global Office Parameter Glnaimnqry

### 1.2 Description:

Minimum number of LAC CCS7 TCAP queries attempts which are required in a quarter hour before software alarm calculations will be performed.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 40

***CMP Initial Value:*** 40

***RC/ODA Rules:*** When retrofitting from 5e9.1 or 5e9.2, this parameter must be set to the value in bits 16 - 22 in Gloamff.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 40;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glnaimnqry.values: */

if (runucv) then
Glnaimnqry is_in {1 thru 64};
```

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# Glnaion

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnaion | FR | DMbool |

### 1.1 Glnaion

Network Access Interrupt (NAI) feature activation parameter.

### 1.2 Description

This parameter shall be used to activate/deactivate the NAI feature. DBYES indicates the feature is activated, DBNO indicates the feature is not activated.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e9.1 or 5e9.2, this parameter must be set to the value in Gloff8{0}.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
        /* no check */
```

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# Glnaisuqry

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnaisuqry | LR | DMuns7 |

### 1.1 Glnaisuqry

Global Office Parameter Glnaisuqry

### 1.2 Description

Network Access Interrupt (NAI) software alarm threshold, which is a value for the successful query percentage. If percentage falls under this threshold an alarm is activated. The value of 0 means that the alarm is not in service. Range is 0 to 100. Default is 95.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 95

***CMP Initial Value:*** 95

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e9.1 or 5e9.2, this parameter must be set to the value in bits 23 - 29 in Gloamff.

***Default Rules:***
```
default = 95;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glnaisuqry.values: */

Glnaisuqry is_in {0 thru 100};
```

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# Glnaitmout

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnaitmout | FR | DMuns8 |

### 1.1 Fullname:

NAI Timeout Parameter

### 1.2 Description:

This parameter specifies (in tenths of seconds) the time interval in which a reply to a LAC CCS7 TCAP query must be received from the 2LAC/NCP database.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5e9.1 or 5e9.2, this parameter must be set to the value in bits 8 - 15 in Gloff7.

***Default Rules:***
```
default = 20;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glnaitmout.values: */

/*
 * This parameter is in tenths of seconds: therefore
 * 5 specifies .5 seconds and 200 specifies 20 seconds.
 */
if (runucv) then
Glnaitmout is_in {5 thru 200};
```

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# Glnaitoll

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnaitoll | FR | DMbool |

### 1.1 Glnaitoll

Network Access Interrupt (NAI) Toll feature activation parameter.

### 1.2 Description

This parameter shall be used to activate/deactivate the Toll NAI feature. DBYES indicates the feature is activated, DBNO indicates the feature is not activated.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e9.1 or 5e9.2, this parameter must be set to the value in Glsf3dummy.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
        /* no check */
```

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# Glnaitrtyp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnaitrtyp | FR | DMuns8 |

### 1.1 Glnaitrtyp

NAI Translation Type for 2STPE Queries.

### 1.2 Description

This parameter specifies the index used by the 2STPE for Network Access Interrupt (NAI) destination point codes.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofiting from 5e9.1 or 5e9.2, this parameter must be set to the value in bits 0 - 7 in Gloff7.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* no check */
```

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# Glnaktimer

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnaktimer | FR | DMsecond |

### 1.1 Glnaktimer

NAK Retransmission Timer

### 1.2 Description

The NAK Retransmission Timer (NAKTIMER) parameter is used for the CDMA Data Services application on the 5ESS(R)-2000 switch. Time is measured in seconds.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 5

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This timer will be used by RC.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 5;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glnaktimer.values: */

Glnaktimer is_in {5 thru 10};
```

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# Glnatl7sm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnatl7sm | FP | DMmodule |

### 1.1 Glnatl7sm

Global Office Parameter Glnatl7sm.

### 1.2 Description

This parameter indicates if this processor contains a direct interface with the national version of SS7 (formerly CCITT7) (Signaling system No. 7) transport hardware.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Glnatl7sm and Glintl7sm cannot both have a non-zero value on the same SM.

If there is a national version of SS7 (formerly CCITT7) in the office the value of this parameter depends on the transport hardware:

Glnatl7sm must be set to indicate the SMs containing PSUs used for national SS7 transport. Glnatl7sm is set to the SM's own number on any SM which contains a PSU that handles national SS7 transport. On these SMs, Glintl7sm must be zero (0) since international and national SS7 signaling cannot exist on the same SM. On these SMs, Glglobalsm and Glnatl7sm have the same value.

Certain transactions against Glnatl7sm must be allowed or denied:

'Transaction: Change Glnatl7sm from zero to x'

If all the requirements for changing the parameter Glglobalsm in SM 'x' from zero to 'x' are satisfied, then set Glnatl7sm to 'x' on 'x'.

'Transaction: Change Glnatl7sm from x to y'

This transaction applies when both 'x' and 'y' are non-zero. This request must be denied unconditionally.

'Transaction: Change Glnatl7sm from x to zero'

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If all the requirements for changing the parameter Glglobalsm in SM 'x' from 'x' to zero are satisfied, then set Glnatl7sm to '0' on 'x'.

Glnatl7sm cannot be set to a non-zero value on SM 'x' if SM 'x' is an RSM (that is of type SM5RSM) unless the global parameter Glc7_rsm is set to DBYES. The type of SM 'x' can be read from RLmodatt.imtype. If Glc7_rsm is set to DBNO then if SM 'x' is of type SM5RSM, Glnatl7sm can never be set to a non-zero value.

***Retrofit Rules:*** None.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
for i in {1 thru 192}
begin
      if (Glnatl7sm on sm(i) != 0) then
             pcrlist[Glnatl7sm on sm(i)] = true;
end
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
      /* An SM can't have both SS7 international signaling and SS7
       * national signaling.
       */
      if(Glnatl7sm != 0) then
      begin
              Glintl7sm == 0;

              /* Verify that this national GSM is in RLgsm_opc. */
              find == 1 gsm_opc in RLgsm_opc
              where (gsm_opc.gsm == Glnatl7sm);
      end
end
```

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# Glnbst2

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnbst2 | FP | DMushort |

### 1.1 Glnbst2

Global Office Parameter Glnbst2

### 1.2 Description

This parameter is initialized by the RLTAPOSDB initialization function to equal the number of RLLPRT_POS tuples for which RLLPRT_POS.pos_typ equals OA_BST2.

This parameter does not appear on any ODA form and ODA is not required to initialize its value. This parameter does not appear on any recent change (RC) view.

The RC mapping code for view 21.32 (RC_PPMAP) will maintain the value of Glnbst2 as RLLPRT_POS tuples are inserted, updated, and deleted.

Refer to population rules for Gltloop for interdependencies.

Range is specified in decimal.

***Type :*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glnbst2.values: */
if (current_pcr is_in sm_all) then
begin
       Glnbst2 is_in {0 thru 200};
```

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```
end
```

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# Glnbst

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnbst | FP | DMushort |

### 1.1 Glnbst

Global Office Parameter Glnbst

### 1.2 Description

This parameter is initialized by the RLPOSDB initialization function to equal the number of RLLPRT_POS tuples for which RLLPRT_POS.pos_typ equals OA_BST.

This parameter does not appear on any ODA form and ODA is not required to initialize its value. This parameter does not appear on any recent change (RC) view.

The RC mapping code for view 21.32 (RC_PPMAP) will maintain the value of Glnbst as RLLPRT_POS tuples are inserted, updated, and deleted.

Refer to population rules for Glloop for interdependencies.

Range specified in decimal.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
      /* RULE about Glnbst.values: */
      Glnbst is_in {0 thru 200};
```

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```
end
```

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# Glncdalmthr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glncdalmthr | LR | DMuns7 |

### 1.1 Glncdalmthr

Global Office Parameter Glncdalmthr

### 1.2 Description

NCD software alarm threshold, which is a value for the successful query percentage. If percentage falls under this threshold an alarm is activated. Range is 0 to 100. Default is 95.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 95

***CMP Initial Value:*** 95

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 95;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glncdalmthr.values: */

Glncdalmthr is_in {0 thru 100};
```

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# Glncdminqry

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glncdminqry | LR | DMuns7 |

### 1.1 Glncdminqry

Global Office Parameter Glncdminqry

### 1.2 Description

Minimum NCD query attempts required in a quarter hour before NCD software alarm calculations will be performed. Range is 1 to 64. Default is 40.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 40

***CMP Initial Value:*** 40

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 40;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glncdminqry.values: */

Glncdminqry is_in {1 thru 64};
```

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# Glncdstat

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glncdstat | LRFR | DMbool |

### 1.1 Glncdstat

Global Office Parameter Glncdstat

### 1.2 Description

POPULATION: AM_SM_RED

This parameter specifies the status of the Network Call Denial (NCD) capability as to whether NCD queries should be sent or not.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glncdstat.values: */
        /* no check */ ;
```

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# Glncdtime

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glncdtime | LRFR | DMuns4 |

### 1.1 Glncdtime

Global Office Parameter Glncdtime

### 1.2 Description

Time allowed for an NCD query to respond. Range is from 1 to 8 seconds. Default is 2 seconds. This parameter indicates the longest period of time that call processing will wait for a NCD reply from the database. A timeout will result in the operators following local practices to obtain verification. Since the level of query traffic that can be handled decreases as the holding time increases, extreme care should be used when increasing the value above the default values. Range is specified in seconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2

***AM Initial Value:*** 2

***CMP Initial Value:*** 2

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 2;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glncdtime.values: */

Glncdtime is_in {1 thru 8};
```

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# Glnclk2as

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnclk2as | LR | DMbool |

### 1.1 Fullname:

Network Clock 2 - automatic synchronization

**Defines:** db/DMclidef.h

### 1.2 Description:

This boolean field denotes the on/off state of the automatic synchronization capability of the *5ESS*® switch Network Clock - Model 2.

When on, that is, Glnclk2as == DBYES, the system will automatically restore, without the currently required manual intervention, equipped temporarily OOS references when they become available again, and attempt to stay synchronized to the highest priority reference available. It will not automatically restore manually removed references.

New enhanced firmware is necessary for this capability. The field 'nc_cli' in RLSCORE contains network clock change level indicators. Bit 7 of 'nc_cli' in RLSCORE has been assigned to denote the presence or absence of the firmware enhancements to support this capability (#define'd as DGNC2AS in the file DMclidef.G). This capability is supported when bit 7 of 'nc_cli' of RLSCORE is set.

When off, that is, Glnclk2as == DBNO, the switch will operate in it's normal mode. It will not automatically bring back on-line any temporarily out-of-service references that are available again.

Glnclk2as should be DBNO, and not be allowed to be changed to DBYES, if the field 'nc_cli' of relation RLSCORE does not have bit 7 set, that is, if ((RLSCORE.nc_cli & $DGNC2AS) == 0), this capability is not supported.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

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***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/*RULE about GLnclk2as.values: */
if (Glnclk2as == DBYES) then
begin
        find == 2 score in RLscore
        where (score.side is_in { SM5SIDE0, SM5SIDE1})
        when_found
        begin
                (score.nc_cli & $DGNC2AS) == $DGNC2AS;
        end
end
```

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# Glnetmask

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnetmask | LRFR | DMtcpaddr |

### 1.1 Fullname:

Global Office Parameter Glnxtpr

### 1.2 Description:

IP Net Mask identifies the network mask and is used to create unique IP addresses and determine the routing between the SM's, the AM and the OAPs.

```
There are IP Network Address  consists of three parts
    1) Network Class
    2) Netid
    3) Host id.
and the  Net mask contains the first two.
These parts are of variable length and are as follows:
(The high order bits are the Network Class)
  |-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|
  |0 1 2 3 4 5 6 7|0 1 2 3 4 5 6 7|0 1 2 3 4 5 6 7|0 1 2 3 4 5 6 7| Class
  |-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|
  |0|   NETID     |             HOSTID                            | A
  |-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|
  |1 0|        NETID              |            HOSTID             | B
  |-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|
  |1 1 0|                 NETID                   |    HOSTID     | C
  |-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|
  |1 1 1 0|             MULTICAST ADDRESS                         | D
  |-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|
  |1 1 1 1 0|           Reserved for future use                   | E
  |-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|-+-+-+-+-+-+-+-|
```

Class D and E address are not supported.

The bitpos (0  thru  7) should not be 0.

The bitpos (24 thru 31) should be be  0.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0xbdc80000

***AM Initial Value:*** 0xbdc80000

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***CMP Initial Value:*** 0xbdc80000

***RC/ODA Rules:*** ODA should display the parameter on the ODA input forms. RC cannot change the value of this parameter.

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0xBDC80000;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* The lower order eight bits should be zero. */
(Glnetmask & 0xff) == 0;

/*
 * Class D and E net ids are not supported.
 * the first three bits should not be one.
 */
(Glnetmask & 0xe0000000) != 0xe0000000;

/* The first byte should not be zero. */
(Glnetmask & 0xff000000) != 0;
```

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# Glnetrel

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnetrel | LRFR | DMlineno |

### 1.1 Glnetrel

Network Release

### 1.2 Description

Network Software Release. This is the oldest software release currently being run on any switch which is networked with this switch. There are certain features which require that every switch that communicates with this switch be on the same or later software release. These features look at this parameter to determine when they can be active on the network (and therefore on this switch). These features cannot be active on this switch until this parameter indicates that all switches on the network are operating at the minimum software release level needed to support the feature. This minimum software release level is referred to as the 'Activation Level.' As long as this global is greater than or equal to the feature's 'Activation Level,' the feature can safely be active on the network. Some optional features may still have a 'Feature Activation Bit' in addition to an 'Activation Level'. The 'Feature Activation Bit' does not apply until after the 'Activation Level' has been satisfied. If coordination is necessary, all switches on the network may update this global at the same time during periods of low call traffic.

The last two digits of this parameter indicate the software update level within the current software release. This is an arbitrary designation and does not necessarily correspond to the actual number of software updates distributed to the field. The first (or first two) digit(s) indicate the software release. The first software release of 5E9 is represented by 901. Later software updates in 5E9 which require network coordination would be represented by 902, 903, etc. There is no need to update this parameter for each software release unless it is required by a certain feature within that release.

The following layout lists all features which use this global to determine when they are allowed to be active in the network. The activation level is the minimum software release level the network must be on before the feature can be active.

```
Network         Feature     Activation Level
-------         -------     ----------------
FTS2000         INPA              901
```

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Zero is not allowed on the RC/ODA form. Unknown on the form is to be mapped to zero in the database. RC and ODA must issue a warning whenever this global is decreased in value (rc-oda.9.1).

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**WARNING:** Decreasing the value of this field could deactivate some features on the switch which are currently active.
RC must give a warning whenever this parameter is incremented by more than one (rc.9.1).

**WARNING:** Increasing the value of this field by more than one will activate features for this value and features for the values that were skipped.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0   /* No default on the RC/ODA form */
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glnetrel.values: */

Glnetrel is_in {0 thru 9999};
```

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# Glngsm2gsm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glngsm2gsm | FP | DMhex16 |

### 1.1 Fullname:

Global Office Parameter Glngsm2gsm

### 1.2 Description:

This global parameter defines a bit map which defines which GSM provides Common Channel Signaling (CCS) message routing for the Non-Global Switching Module (NGSM).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0x0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** When a message handler SM is inserted or deleted via Recent Change view 16.16 or ODA form CMTMH, the global parameter Glngsm2gsm on the non-global SM should be updated accordingly.

***Retrofit Rules:*** The value should be preserved over the retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt
        begin
                pcrlist[modatt.module] = true;
        end
```

***Checks:***

```
/* Glngsm2gsm is a bit map. If a bit
 * in Glngsm2gsm is one, then there must
 * be a tuple in RLgsm_opc for the GSM
 * corresponding to that bit and there
 * must be at least one tuple in RLcmtpath
 * that defines a path between this SM
 * and the GSM corresponding to the bit.
 */
```

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```
if (current_pcr is_in sm_all) then
begin
     for i in {0 thru 15}
     begin
          if (Glngsm2gsm{i} == 1) then
          begin
               find == 1 gsm_opc in RLgsm_opc
               where (gsm_opc.gsmi == i+1)
               when_found
               begin
                    let x = count {cmtpath in RLcmtpath
                            where (cmtpath.ngsm == current_pcr &&
                                   cmtpath.gsm == gsm_opc.gsm)};
                    x > 0;
               end
          end
     end
end
```

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# Glngsmcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glngsmcnt | FP | DMshort |

### 1.1 Fullname:

Global Office Parameter Glngsmcnt

### 1.2 Description:

This global parameter specifies the total number of equipped Non-Global SM's (NGSM) which use this GSM as a host GSM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** When a CCS Message Transport MH SM used to transport messages between a NGSM and a GSM is inserted or deleted via Recent Change view 16.16 or ODA from CMTMH, Glngsmcnt on the GSM should be updated accordingly.

***Retrofit Rules:*** The value should be preserved over the retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        begin
                pcrlist[modatt.module] = true;
        end
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

        Glngsmcnt == count {cmtpath in RLcmtpath
                            where (cmtpath.gsm == current_pcr)};
end
```

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# Glnidpbxs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnidpbxs | LR | DMcount |

### 1.1 Glnidpbxs

Global Office Parameter Glnidpbxs

### 1.2 Description

This parameter indicates the number of equipped non-in-dialing Private Branch Exchanges in an office. The range is 0 - 4096. The RCV support is full.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glnidpbxs.values: */

        /* no check */ ;
```

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# Glnint

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnint | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glnint

### 1.2 Description:

This parameter is a count of the number of RLLPRT_POS tuples for which RLLPRT_POS.pos_typ equals OA_INT.

This parameter is initialized by ODA before SM initialization because it is needed to initialize Glptrdb and Glqrydb.

During SM initialization, it is recalculated by the RLTAPOSDB initialization function to equal the number of RLLPRT_POS tuples for which RLLPRT_POS.pos_typ equals OA_INT.

This parameter does not appear on any Recent Change view.

The Recent Change mapping code for view 21.32 (RC_PPMAP) will maintain the value of Glnint as RLLPRT_POS tuples are inserted, updated, and deleted.

Refer to population rules for Gltloop for interdependencies.

Range specified in decimal.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
```

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```
begin

/* RULE about Glnint.values: */

Glnint is_in {0 thru 200};
Glnint == count({lprtpos in RLlprt_pos where (lprtpos.pos_typ == OA_INT)});
end
```

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# Glnmc7data

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnmc7data | LRFR | DMbool |

### 1.1 Glnmc7data

Global Office Parameter Glnmc7data

### 1.2 Description

This global parameter provides the ability to turn the Network Management SS7 (formerly CCITT7) Surveillance Measurements 'ON' and 'OFF'.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** rc access: none;

***NOTE:*** The Network Management SS7 (formerly CCITT7) Surveillance Measurements feature isn't supported, therefore Glnmc7data should be populated with DBNO.

***Retrofit Rules:*** None.

***Default Rules:***
```
oda_default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* Glnmc7data should equal DBNO. */

Glnmc7data == DBNO;
```

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# Glnmmon

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnmmon | LP | DMuns8 |

### 1.1 Glnmmon

Global Office Parameter Glnmmon

### 1.2 Description

This parameter is used to keep count of the number of Multiline Hunt Group (MLHG) queue monitor consoles in an office. A queue monitor console is an ISDN terminal which can display MLHG queue status data. Glnmmon is equal to the number of tuples in RLmontoq. Recent change should increment Glnmmon when a terminal becomes a queue monitor console (tuple in RLmontoq created for the terminal). Recent change should decrement Glnmmon when a terminal is changed from a queue monitor console to a regular terminal (tuple in RLmontoq deleted for the terminal). Glnmmon can never be greater than Glmxmon. The valid value for Glnmmon should be maintained on the CMP and the AM value of Glnmmon should be 0. The range of this parameter is 0-255.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard - LP ( CMP ) */

;
```

***Checks:***

```
/* RULE about Glnmmon.values: */
Glnmmon on cmp is_in {0 thru 255};
```

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# Glnocmax

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnocmax | LRFR | DMnocmax |

### 1.1 Glnocmax:

Global Office Parameter Glnocmax - maximum number of NOCs allowed per office

### 1.2 Description:

This parameter is internal to the switch and contains the maximum number of allowed Normalized Office Codes (NOCs) that can be assigned on the switch. The value of this parameter is always set to 250, unless the office is provisioned with the Number Portability - NPA-NXX Growth Feature (SFID198). In this case, the parameter will be set internally to 8190 when the feature is active and a NOC greater than 250 is assigned on RC View 8.2. (See RLofficecode.R).

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 250

***AM Initial Value:*** 250

***CMP Initial Value:*** 250

***RC/ODA Rules:*** This parameter is supported by RC and ODA. The value of this parameter is populated by ODA and updated via RC View 8.2 according to the following rule:

```
if ((SFID198 == DBYES) &&
    (there exists an RLofficecode tuple with a noc that is in {251 thru 8190}))
{
  Glnocmax == 8190;
} else
{
         Glnocmax == 250;
}
```

The value is always set to 250, unless the Number Portability - NPA-NXX Growth Feature (SFID198) is active is active and a NOC greater than 250 is assigned on RC View 8.2.
The dummy tuple, 8191, for RLofficecode should not be included in the range of Glnocmax values.

***Retrofit Rules:*** None

***Default Rules:***

```
default = 250;
```

***Distribution Rules:***

```
        /* standard */
```

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***Checks:***

```
/* RULE about Glnocmax.values: */
        Glnocmax is_in {250, 8190};
```

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# Glnocollct

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnocollct | FR | DMbool |

### 1.1 Fullname:

Global Office Parameter Glnocollct

### 1.2 Description:

This parameter specifies whether a collect call can be billed to this number when a call is blocked by the IBNS R2 feature.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glnocollect values: */
```

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# Glnpa_ext

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnpa_ext | LRFR | DMinpamode |

### 1.1 Glnpa_ext

Global Office Parameter Glnpa_ext

### 1.2 Description

Indicates the numbering option/numbering plan.

***Type :*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** FC_NP01

***AM Initial Value:*** FC_NP01

***CMP Initial Value:*** FC_NP01

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = FC_NP01;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glnpa_ext.values: */
        /* no check */ ;
```

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# Glnpa_spr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnpa_spr | LRFR | DMinpamode |

### 1.1 Glnpa_spr

Global Office Parameter Glnpa_spr

### 1.2 Description

Indicates the numbering option/numbering plan - spare.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** FC_NP01

***AM Initial Value:*** FC_NP01

***CMP Initial Value:*** FC_NP01

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = FC_NP01;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glnpa_spr.values: */

        /* no check */ ;
```

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# Glnpappd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnpappd | FR | DMbool |

### 1.1 Glnpappd

Global Office Parameter Glnpappd

### 1.2 Description

If set to YES, the NPA split table (RLnpasplit) must be checked for the following call processing situations:

(1) before digit analysis for AC activations.

(2) during SLE DN validation while adding the ILHB DN to the screening list.

(3) incoming CCS7 calls.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glnpappd.values: */

        /* no check */ ;
```

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# Glnpascr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnpascr | FR | DMbool |

### 1.1 Glnpascr

Global Office Parameter Glnpascr

### 1.2 Description

If set to yes, provide 7 digit screening for those calling DNs whose NPA is in the NPA split table (RLnpasplit). If the 7-digit DN is in the screening list, make sure the screening list NPA is related to the same NPA split as the calling DNs NPA. For cases not included above, provide 10 digit screening. For any calls that fail screening, use current treatment.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glnpascr.values: */

        /* no check */ ;
```

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# Glnpasle

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnpasle | FR | DMbool |

### 1.1 Glnpasle

Global Office Parameter Glnpasle

### 1.2 Description

If set to YES, when checking the screening list during the SLE add or delete processing, the NPA split table (RLnpasplit) must be checked.

For the add option:

If the NPA of the dialed DN is found in the table, the screening list must be checked for NPA or it's associated NPA. If either of these DNs, the DN with either the NPA or it's associated NPA from the NPA split table, is in the screening list, the dialed DN will be substituted into the list. If neither of these DNs is in the screening list, the SLE add session may continue.

For the delete option:

If the NPA of the dialed DN is found in the table, the screening list must be checked for NPA or it's associated NPA. If either of these DNs, the DN with either the NPA or it's associated NPA from the NPA split table, is in the screening list, the DN must be deleted. If neither of these DNs is in the screening list, the DN cannot be deleted.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glnpasle.values: */
```

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```
        /* no check */ ;
```

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# Glnpatcap

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnpatcap | FR | DMbool |

### 1.1 Glnpatcap

Global Office Parameter Glnpatcap

### 1.2 Description

If set to yes, provide validation of TCAP queries for AC/AR and SLE on 7 digits if the TCAP NPA is found in the NPA split table (RLnpasplit). If the NPA is not found in the NPA split table, 10 digit validation is done. When set to yes, do not assert on failure.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glnpatcap.values: */

        /* no check */ ;
```

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# Glnpsn_index

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnpsn_index | LR | DMulong |

### 1.1 Glnpsn_index

Global Office Parameter Glnpsn_index

### 1.2 Description

This parameter is next_psn index bit masks and use to indicate the usage of next_psn index. Npsn_index permits the RLpsiptst data to be stored in a memory by efficient manner in the global PH data arrays. When insert the relation RLpsiptst, first find the lowest available position ; then set the bit. On the other hand, when delete the relation RLpsiptst, the position of this bit should be unset.

```
31             16  15             0 <---- bit position
|               |  |              |
v               v  v              v
----------------  ----------------
0000000000000000  0000000000000000
```

**Where:**

bit position = RLpsiptst.npsn_index = If there exists a tuple of RLpsiptst which npsn_index = 0, the 0th bit should be set.

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glnpsn_index.values: */
```

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```
        /* no check */ ;
```

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# Glnq_cells

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnq_cells | FP | DMushort |

### 1.1 Glnq_cells

Total MLHG Queue Cells on SM

### 1.2 Description

This parameter is used to keep the total number of MLHG queue cells on an SM. This global parameter, along with the Gltkqcells global parameter is used to determine when the maximum allowed queue cells per SM has been reached on a particular SM. This number will reflect the total qbsize + qexsize attributes of all the tuples in RLqu_os.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** The value of this parameter should always be regenerated in the new generic.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Populate on all SMs */

for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glnq_cells values: */
if (current_pcr is_in sm_all) then
begin
        Glnq_cells is_in {0 thru 4000};
end

/*RULE about Glnq_cells: */
```

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```
if( current_pcr is_in sm_all ) then
begin
        /* Glnk_cells must equal the total of all RLqu_os.qbsize
         * and RLqu_os.qexsize
         * attributes on this SM.
         */
        let s1 = sum RLqu_os.qbsize;
        let s2 = sum RLqu_os.qexsize;
        Glnq_cells == s1 + s2;

        /* The total number of queue cells on an SM must be
         * no greater than 255.
         * The total number of queue cells on an SM-2000 must be
         * no greater than 4000.
         */
        find == 1 modatt in RLmodatt
        where (modatt.module == current_pcr)
        when_found
        begin
                if (modatt.unittype == SMSM2000) then
                begin
                        (Glnq_cells + Gltkqcells) <= 4000;
                end
                else
                begin
                        (Glnq_cells + Gltkqcells) <= 255;
                end
        end
end
```

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# Glnraf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnraf | FP | DMushort |

### 1.1 Fullname:

Count of RAF ports in use

### 1.2 Description:

This parameter is a count of the number of RLLPRTACCS tuples.

This parameter is initialized by ODA before SM initialization because it is needed to initialize Glptrdb and Glqrydb.

During SM initialization, it is recalculated by the OALPRTACC initialization function to equal the number of RLLPRTACCS tuples.

This parameter does not appear on any Recent Change view.

The Recent Change mapping code for view 20.22 (RC_EQRAS) will maintain the value of Glnraf as RLLPRTACCS tuples are inserted, updated, and deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default=0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glnraf.values: */

if (current_pcr is_in sm_all) then
begin
```

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```
Glnraf is_in {0 thru 256};
Glnraf == count({lprtaccs in RLlprtaccs});
end
```

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# Glnrgsln

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnrgsln | FR | DMshort |

### 1.1 Glnrgsln

Global Office Parameter Glnrgsln

### 1.2 Description

This parameter is used by Generalized Ringing while allocating the ISLU-Z resource. The parameter should be set to the average number of ringers per subscriber's line. By setting the parameter too high, blocking may occur on the RG (Ring Generator) resource unnecessarily. By setting this value too low, there is a danger of causing the RG to go into an overload condition. If this information is not readily available, use the default value of 5.

***Type :*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 5

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 5;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glnrgsln.values: */

Glnrgsln is_in {1 thru 24};
```

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# Glnsanraf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnsanraf | FR | DMushort |

### 1.1 Glnsanraf

Number of RAF members in NSANNC announcement logical service group.

### 1.2 Description

This global is used to keep a count of the number of members of the NSANNC Logical Service Group (LSG) which are from RAFs, as opposed to from SASs. It is updated every time a RAF member is added or removed from the NSANNC LSG.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global is read-only on RC/V view 5.1. It is updated internally from RC/V view 5.5 every time a member is added or removed from the LSG.

***Retrofit Rules:*** None.

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
    for rt_fixedri in RLrt_fixedri

        where (rt_fixedri.ritype == RT_NSANNC)
    begin
            find == 1 rt_routing in RLrt_routing
                where (rt_fixedri.ri == rt_routing.route_x)
            when_found
            begin
                 find == 1 rt_trkg in RLrt_trkg
                     where (rt_trkg.grpnum == rt_routing.portgrp.grpnum)
                 when_found
sas_92_1:            Glnsanraf == rt_trkg.raf_mbrs;
```

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```
        end
    end
```

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# Glnsdbavl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnsdbavl | FR | DMbool |

### 1.1 Glnsdbavl

Global Office Parameter Glnsdbavl

### 1.2 Description

This flag is used internal to the switch to indicate that NS_DB tuples have been inserted into the data base, and should be audited.

```
checks:
  /* None */
endchecks;
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA should populate this with the default value for new offices.

***Retrofit Rules:*** ODA should preserve the value from the database during retrofits and growth.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glnsdbavl.values: */

        /* no check */ ;
```

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# Glnst_all

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnst_all | FR | DMbool |

### 1.1 Fullname:

Global Office Parameter Glnst_all

### 1.2 Description:

The office parameter is used in the following manner...

Glnst_all == DBYES -> Send NST parameter in ACM/ANM/CPG/REL messages.

Glnst_all == DBNO -> Send NST parameter in ANM message only.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter will be displayed on RC/V 8.1

***Retrofit Rules:*** The value is preserved over a retrofit

***Default Rules:***
```
default=DBNO;
```

***Distribution Rules:***
```
        /* Populate on all SMs */
```

***Checks:***
```
        /* none */
```

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# Glnts_sps

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnts_sps | FP | DMulong |

### 1.1 Glnts_sps:

Global Office Parameter Glnts_sps

### 1.2 Description:

This parameter contains a bit-map of equipped and in-use Signal Processors in an SM which process signaling bits on network time slots. (In this context, in-use means that at least one of the two TSI links served by an SP FIFO has an (E)NLI connected to it, and the eq_stat of at least one of the one or two (E)NLIs in rlCKTDATA is SMOPER for both MCTSI service groups).

For SMs, this parameter will always be populated with 0.

This value should remain intact during a Generic Retrofit.Glpts_sps

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:*** None

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glnts_sps.values: */
if (current_pcr is_in sm_all) then
begin
      Glnts_sps is_in {0 thru 0x003fffff};

/* RULE about Glnts_sps: */
```

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```
if (current_pcr is_in { 1 thru 192 }) then
begin
function func() returning boolean
begin
        xmap = 0;
        find == 1 modatt in RLmodatt
        where (modatt.module == current_pcr)
        when_found
                if (modatt.unittype is_in {SMSM2000, SMSM2005}) then
                begin
                        for lnk_use in RLlnk_use on  current_pcr
                        where (lnk_use.use == TS_NLI)
                        begin
                                find == 1 cktdata in RLcktdata on  current_pcr
                                where (cktdata.name == (0x60 + lnk_use.index))
                                when_found
                                        if (cktdata.eqstat == SMOPER) then
                                        begin
                                            find == 1 tcktdata in RLcktdata on  curre
nt_pcr
                                            where (tcktdata.name == (0x80 + lnk_use.i
ndex))
                                            when_found
                                                    if (tcktdata.eqstat == SMOPER) th
en
                                                    begin
                                                            tmp = lnk_use.link/2;
                                                            xmap {tmp} = 1;
                                                    end
                                        end
                        end
                end
        assert(Glnts_sps == xmap);

        /* Ensure that no bits are set to 1 in both Glnts_sps and Glpts_sps
        */
        assert(((Glnts_sps & Glpts_sps)) == 0);
        return true;
end

BCnts_sps: func();

end
end
```

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# Glnum_intl7

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnum_intl7 | LRFR | DMuns5 |

### 1.1 Glnum_intl7

Global Office Parameter Glnum_intl7.

### 1.2 Description

This parameter is used to keep a count of the number of SS7 (formerly CCITT7) international global SMs. This parameter is used in the implementation of the multiple global SM architecture.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** None.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Standard */
```

***Checks:***
```
Glnum_intl7 == count {gsm_opc in RLgsm_opc
                     where (gsm_opc.network == CCINTL)};
/* range check */
Glnum_intl7 is_in {0 thru 16};
```
6.0

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# Glnum_mh

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnum_mh | LR | DMuchar |

### 1.1 Glnum_mh

Global Office Parameter number of message handlers - AM and CMP

### 1.2 Description

This parameter contains the number of Message Handlers in all SM-2000 that are available in an office. This parameter is used in the AM and CMP.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* Sum all Glmh_nums parameters from all SMs in the office.
 */
function MHcnt() returning int
begin
        num = 0;
        for modatt in RLmodatt
        where (modatt.unittype is_in {SMSM2000, SMSM2005})
        begin
                select (Glmh_num on modatt.module)
                begin

                /* Only MH0 */
                when (1):
                begin
```

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```
                        num = num + 1;
                end

                /* Two pairs of MHs */
                when({ 3, 5}):
                begin
                        num = num + 2;
                end

                /* Three pairs of MHs */
                when(7):
                begin
                        num = num + 3;
                end

                /* Other cases */
                else:
                begin
                        num = num + 0;
                end
                end /* end with select */
        end /* end with for modatt in RLmodatt */
        return num;
end

/* RULE about Glnum_mh: */

Glnum_mh == MHcnt();
```

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# Glnum_natl7

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnum_natl7 | LRFR | DMuns5 |

### 1.1 Glnum_natl7

Global Office Parameter Glnum_natl7

### 1.2 Description

This parameter is used to keep a count of the number of SS7 (formerly CCITT7) national global SMs. This parameter is used in the implementation of the multiple global SM architecture.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** None.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
Glnum_natl7 == count {gsm_opc in RLgsm_opc

                     where (gsm_opc.network == CCNATL)};
/* range check */

Glnum_natl7 is_in {0 thru 16};
```

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# Glnum_pls

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnum_pls | FP | DMuns8 |

### 1.1 Glnum_pls

Number of Valid Linksets being policed by the ILS/DPC Policing Feature.

### 1.2 Description

This Global Parameter will be used to hold the number of Incoming Linksets being policed by the Incoming Linkset/DPC Policing feature.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ***NOTE:*** The ILS/DPC Policing feature isn't supported, therefore Glnum_pls should be populated with 0.

***Retrofit Rules:*** None.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
for gsm_opc in RLgsm_opc
begin
        pcrlist[gsm_opc.gsm] = true;
end
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
       /* Glnum_pls should equal 0. */
       Glnum_pls == 0;
end
```

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# Glnumnetid

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnumnetid | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glnumnetid

### 1.2 Description:

This global parameter contains the current total number of RLnet_info tuples inserted.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** There are no special RC/ODA rules.

***Retrofit Rules:*** Preserved over retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for gsm_opc in RLgsm_opc
        begin
                pcrlist[gsm_opc.gsm] = true;
        end
```

***Checks:***

```
if (Gl_pcrid == Glglobalsm) then
begin

        Glnumnetid == count {net_info in RLnet_info};
end
else /* not a GSM, no RLnet_info tuples exist */
begin
        Glnumnetid == 0;
end
```

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# Glnumrcv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnumrcv | LRFR | DMuns7 |

### 1.1 Glnumrcv

Global Office Parameter Glnumrcv

### 1.2 Description

The number of OSPS offices that this office receives interflowed traffic from; that is, number of incoming offices. The value populated is equal to the number of tuples in RLosps_int. Glnumrcv is required by the measurements sub-system. The value of Glnumrcv is can not changed by recent change (RC) through any view attribute but is controlled by the appropriate RC function of inserting or deleting tuples in RLosps_int.

```
RANGE: 0 to 127
SUPPORTED BY: ODA,ODBE,RC
RC DEFAULT: NA
ODBE DEFAULT: 0
ODA DEFAULT: 0
```

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glnumrcv.values: */

Glnumrcv is_in {0 though 127};
```

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# Glnumrr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnumrr | LRFR | DMuns5 |

### 1.1 Glnumrr

Global Office Parameter Glnumrr

### 1.2 Description

The number of offices that this switch can interflow to for non T&A calls; This is equal to the count of all non-zero entries for attribute int_destid of RLdstid_rr. Glnumrr is required by the measurement sub-system. The value of Glnumrr is not recent changeable through any view attribute directly but is controlled by the appropriate recent change (RC) view that allows adding and removing Non-T&A Interflow destinations, which are represented by the attribute int_destid in relation RLdstid_rr.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glnumrr.values: */

Glnumrr is_in {0 thru 16};
```

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# Glnumsnd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnumsnd | LRFR | DMuns5 |

### 1.1 Glnumsnd

Global Office Parameter Glnumsnd

### 1.2 Description

The number of OSPS offices that this office is sending interflowed traffic to; that is number of destination offices. The value populated is equal to the number of tuples in RList_parm. Glnumsnd is required by the measurements sub-system. The value of Glnumsnd is not recent changeable through any view attribute but is controlled by the appropriate recent change (RC) function of inserting or deleting tuples in RList_parm. RC DEFAULT: NA

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glnumsnd.values: */

Glnumsnd is_in {0 thru 16};
```

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# Glnumtdn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnumtdn | LR | DMcount |

### 1.1 Glnumtdn

Global Office Parameter Glnumtdn

### 1.2 Description

Number of inter office call trace dns. No population rules are available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 2

***CMP Initial Value:*** 2

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glnumtdn.values: */

        /* no check */ ;
```

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# Glnumxlist

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnumxlist | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glnumxlist

### 1.2 Description:

This global parameter contains the current total number of clusters allowed to maintain X-lists.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** There are no special RC/ODA rules.

***Retrofit Rules:*** Preserved over retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for gsm_opc in RLgsm_opc
        begin
                pcrlist[gsm_opc.gsm] = true;
        end
```

***Checks:***

```
if (Gl_pcrid == Glglobalsm) then
begin

        Glnumxlist == count {clu_info in RLclu_info
                        where (clu_info.xlist_alw == DBYES)};
end
else /* not a GSM, no RLclu_info tuples exist */
begin
        Glnumxlist == 0;
end
```

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# Glnvdt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnvdt | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glnvdt

### 1.2 Description:

This parameter is a count of the number of RLLPRT_POS tuples for which RLLPRT_POS.pos_typ equals OA_VDT.

This parameter is initialized by ODA before SM initialization because it is needed to initialize Glptrdb and Glqrydb.

During SM initialization, it is recalculated by the RLTAPOSDB initialization function to equal the number of RLLPRT_POS tuples for which RLLPRT_POS.pos_typ equals OA_VDT.

This parameter does not appear on any Recent Change view.

The Recent Change mapping code for view 21.32 (RC_PPMAP) will maintain the value of Glnvdt as RLLPRT_POS tuples are inserted, updated, and deleted.

Refer to population rules for Gltloop for interdependencies.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
```

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```
/* RULE about Glnvdt.values: */

Glnvdt is_in {0 thru 200};
Glnvdt == count({lprtpos in RLlprt_pos where (lprtpos.pos_typ == OA_VDT)});

end
```

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# Glnxasw_time

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnxasw_time | FP | DMmillis |

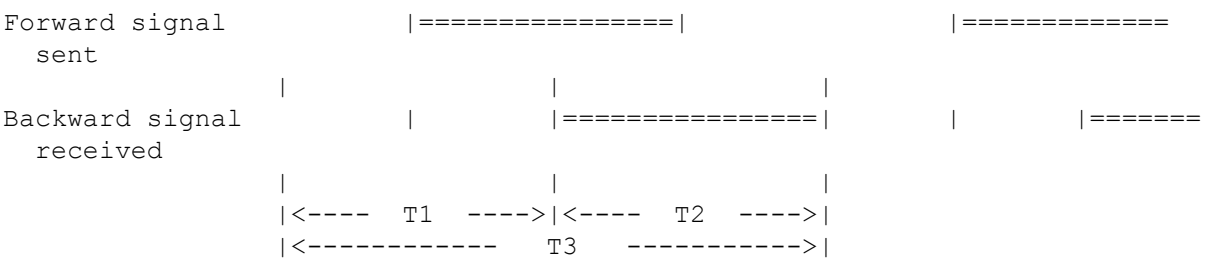
### 1.1 Glnxasw_time

Global Office Parameter Glnxasw_time

### 1.2 Description

This parameter specifies the reanswer timing for national (non local) calls. This timing is done in the supervision point of a connection at reception of 'clear back' on the outgoing trunk. The outgoing trunk has service class FCNAHK_TRUNK in this case. The range is 2000 - 120,000. The RCV support is none. Used by Export. The following diagram refers to the population of the parameters Glomfc_tmr, Gltmr1_omfc and Gltmr2_omfc. Also refer to the 5EE1(2) MFC Signaling Design DS: DS5DE 5.08.01.01.00.

Outgoing MFC Signaling Timing Intervals




```
T1 = duration of forward signal (forward tone-on to forward tone-off)
T2 = duration of silent interval (forward tone-off to forward tone-on)
T3 = duration of entire cycle (forward tone-on to forward tone-on)
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4000

***AM Initial Value:*** 4000

***CMP Initial Value:*** 4000

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

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***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glnxasw_time.values: */
   Glnxasw_time is_in {2000 thru 120000};
end
```

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# Glnxtldtod

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnxtldtod | FR | DMulong |

### 1.1 Glnxtldtod

Next Long Duration call generation

Time Of Day global parameter

### 1.2 Description

This global parameter contains the time of day in milliseconds when the next AMA long duration records will be scanned. The default time is 0 (midnight).

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter will be updated via RCV, entered in hours and minutes and will be converted to the number of milliseconds (ms) past midnight.

***Retrofit Rules:***

(1) Initialize to 0 in 5E10.

(2) Preserve the value over retrofit from 5E10 to 5E11 and later.

***Default Rules:***

```
default=0;
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
        /*  RULE about Glnxtldtod.values */
        Glnxtldtod is_in {0 thru 86400000};  /* 24 * 60 * 60 * 1000 */
```

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# Glnxtpr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnxtpr | LR | DMlong |

### 1.1 Fullname:

Global Office Parameter Glnxtpr

### 1.2 Description:

This parameter is used to hold the linkage between the third and fourth digits when a three to six digit conversion is in progress. When office personnel are converting 3 digit data trees to 6 digit trees, they want to maintain routing on the 3 digit tree until all the 6 digit data is intact and verified. The 6 digit tree is built independent of the current 3 digit tree. During the conversion, the DAPRMDGT linkage between the 2 trees is contained in this parameter. When the conversion is complete, the value stored in this parameter is placed into the DAPRMDGT data on the last digit in the 3 digit tree. This links the 2 trees together.

(ex. A conversion is taking place on digits 312. Routing will continue on the 312 string while the 312xxx digit tree is being populated (xxx being 000 - 999). When all the needed 312xxx digit strings are populated ;nd verified then the conversion is completed by placing the Glnxtpr value into the DAPRMDGT data for the 2. This changes all the routing to use the 6 digit string.)

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glnxtpr.values: */

Glnxtpr is_in {0 thru 1048575};
```

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# Glnxx_dup

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glnxx_dup | LRFR | DMbool |

### 1.1 Glnxx_dup

Global Office Parameter Glnxx_dup - duplicate NXX

### 1.2 Description

This is an internal global parameter and indicates if there are any TNs with duplicate NXXs (same NXX, but multiple NPAs) assigned in this office. Such TNs can only be assigned when the office is provisioned with the Number Portability - NPA-NXX Growth Feature (SFID198) on RC View 8.22.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** This parameter is supported by RC and ODA. The value of this parameter is set to DBYES when the Number Portability - NPA-NXX Growth Feature (SFID198) is active and a duplicate NXX exists or is inserted on RC View 8.2.

```
     if ((SFID198 == DBYES) &&
         (there exists at least 1 RLnoccode tuple with usecnt > 1)) then
             Glnxx_dup == DBYES;
     else
             Glnxx_dup == DBNO;
```

***Retrofit Rules:*** None

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/*RULE about Glnxx_dup: */
begin
        let RES = DBNO;

        /* Comment symbols to be removed when new RLnoccode.R is provided in i3.0rdl
```

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```
*/
        /* find >= 1 noccode in RLnoccode */
        /* where (noccode.usecnt > 1) */
        /* when_found */
        /* begin */
        /*      let RES = DBYES; */
        /* end */
        Glnxx_dup == RES;
end
```

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## 3.25 Glo

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# Gloacdop

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gloacdop | FP | DMushort |

### 1.1 Gloacdop

Global parameter for optimized ACD/BRCS originating ports.

### 1.2 Description

Gloacdop is used to determine the appropriate number of RLcv_state tuples to allocate in each SM.

Gloacdop contains the number of RLfc_porttyp tuples for which RLfc_porttyp.servclass equals any of the following values:

```
FC_IEC          FC_PF           FC_SEC_INTOLL   FC_SPAMEG
FC_LATA_CONN    FC_PFITT        FC_SPAB800      FC_SPAWATS
FC_LTOLL_CONN   FC_PRI_INTOLL   FC_SPAM800      FC_TTOLL_CONN
Gl_pcrid
```

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
/* RULE about Gloacdop.values: */
Gloacdop is_in {0 thru 24192};
/* RULE about Gloacdop: */
if (Gl_pcrid is_in {1 thru 192}) then
```

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```
   function func() returning boolean
       oacdopcnt = 0;
       for fc_porttyp in RLfc_porttyp on sm(Gl_pcrid)
       begin
          if (fc_porttyp.servclass is_in {FC_LTOLL_CONN, FC_SEC_INTOLL, FC_SPAM800,
               FC_PF, FC_SPAB800, FC_TTOLL_CONN, FC_IEC,
               FC_PFITT, FC_SPAMEG, FC_LATA_CONN,
               FC_PRI_INTOLL, FC_SPAWATS}) then
          begin
                    oacdopcnt = oacdopcnt + 1;
          end
 end
       assert(Gloacdop == oacdopcnt);
       return true;
   end
   func();
end
```

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# Gloai

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gloai | LRFR | DMunl24 |

### 1.1 Gloai

Office Administration Identifier

### 1.2 Description

Gloai: The Gloai global parameter provides the telephone company administrator (TCA) responsible for managing the OSPS office a way that will identify the administration/ownership of the OSPS in a query to a card database. The data contained in the global parameter Gloai is sent as a parameter in a CAS CCS7 or telecommunication standardization sector (ITU-TS) (formerly CCITT) TCAP query.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 8900

***AM Initial Value:*** 8900

***CMP Initial Value:*** 8900

***RC/ODA Rules:*** The default value for this parameter is 8900.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 8900;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gloai.values: */
Gloai is_in {1000 thru 9999999};
```

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# Gloamff2

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gloamff2 | LR | DMulong |

### 1.1 Gloamff2

Global Office Parameter Gloamff2

### 1.2 Description

This parameter is reserved for future OSPS fast feature development work. It should be initialized to all zeros. This parameter may contain the full range of values.

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gloamff2.values: */
/* no check */
```

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# Gloamff3

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gloamff3 | LR | DMulong |

### 1.1 Gloamff3

Global Office Parameter Gloamff3

### 1.2 Description

This parameter is reserved for future OSPS fast feature development work. It should be initialized to all zeros. This parameter may contain the full range of values.

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gloamff3.values: */
/* no check */
```

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# Gloamff

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gloamff | LR | DMulong |

### 1.1 Fullname:

Global Office Parameter Gloamff

### 1.2 Description:

This AM global parameter is reserved for future OSPS fast feature development work. It should be initialized to all zeroes. This parameter may contain the full range of values.

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Gloamff.values: */
```

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# Gloaotdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gloaotdb | FP | DMshort |

### 1.1 Gloaotd

Current number of tuples in RLoaotdb.

### 1.2 Description

This parameter contains a current count of the number of rlOAOTDB tuples.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** RC only: This parameter cannot be changed or viewed by Recent Change.

***Retrofit Rules:*** This value is always recalculated at retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
/* RULE about Gloaotdb */

if (count({lpconf in RLlpconfig
 where(lpconf.smconfig == Glconfigname &&
                lpconf.package == GLOPSMOT)}) > 0) then
begin
        Gloaotdb is_in {0 thru 24192};
        /* Gloaotdb is_in {0 thru ($DBQNOAOTDB - $DBSFOAOTDB)}; */
        Gloaotdb == Gloprtk + Glioaotdb;
end else begin
        Gloaotdb == 0;
```

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```
end
end
```

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# Gloap24s

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gloap24s | LR | DMuns12 |

### 1.1 Gloap24s

Global Office Parameter Gloap24s

### 1.2 Description

This parameter is reserved for OAP make busy measurements, setting the boundary for 24 hour measurements. The global is divided into 2 parts, hours and minutes. Internally the time entered will be calculated at 60,000 milliseconds per minute. The value of 0001 will mean one minute after midnight while 2359 will mean 1 minute till midnight. The current default will be 02:07 am.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 207

***AM Initial Value:*** 207

***CMP Initial Value:*** 207

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0207;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gloap24s.values: */

Gloap24s is_in {0000 thru 2359};
```

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# Gloapdl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gloapdl | FP | DMuns3 |

### 1.1 Gloapdl

Global Office Parameter Gloapdl

### 1.2 Description

This parameter specifies the quantity of OSPS administrative processor (OAP) data link DSLs that are connected to the SM. This parameter is populated by ODA and RC but does not appear on any view. Each SM's parameter is set to the number of RLDLDSL tuples in that SM with the servclass attribute set to AS_OAP.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
    /* RULE about Gloapdl.values: */
    Gloapdl is_in {0 thru 4};
end
```

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# GlobInalin

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| GlobInalin | FP | DMushort |

### 1.1 GlobInalin

Lines with Advanced Services Platform originating busy line or no answer features

### 1.2 Description

The GlobInalin global parameter contains an SM's count of ASP originating busy line or no answer features assigned to lines and active in RLasp_port. Its value is maintained over all initializations and updated via trigger functions as busy line or no answer features are inserted or deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC.

The value of this parameter is established by ODA and will be updated by trigger functions as busy line or no answer features are inserted or deleted. Its value can increase and decrease.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt
                pcrlist[ modatt.module ] = true;
```

***Checks:***

```
if ( current_pcr is_in sm_all ) then
begin
        /* RULE about Globlnalin.values: */
        Globlnalin is_in {0 thru 28800};
end
/* RULE about Globlnalin: */
function func() returning int
begin
```

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```
     oblnalines = 0;
     for asp_port in RLasp_port
     where ( asp_port.o_bltrig_act == DBYES
      ||     asp_port.o_natrig_act == DBYES )
     begin
          find == 1 lpt_pt in RLlpt_pt
          where ( lpt_pt.lport    == asp_port.lport
           &&     lpt_pt.lpt_type == asp_port.lpt_type )
          when_found
          begin
               if (count( { fc_porttyp in RLfc_porttyp
                   where ( fc_porttyp.port.member == lpt_pt.port
                     &&     fc_porttyp.port.module == current_pcr
                     &&     fc_porttyp.porttype    == TM_LINE ) } ) > 0 )
               then
                           oblnalines = oblnalines + 1;
          end
     end
     return oblnalines;
end

if ( current_pcr is_in sm_all ) then
begin
     Globlnalin == func();
end
```

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# Gloctlopen

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gloctlopen | FR | DMuns7 |

### 1.1 Gloctlopen

Global Office Parameter Gloctlopen

### 1.2 Description

Controls the open circuit. The value gives the open circuit duration in seconds. The recommeded default value is 30 or 30 seconds. Must be given the same value in every IM. During an update, the change to a new value has no synchronization requirement.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 30

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 30;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gloctlopen.values: */

Gloctlopen is_in {0 thru 127};
```

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# Gloctltone

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gloctltone | FR | DMuns7 |

### 1.1 Gloctltone

Global Office Parameter Gloctltone

### 1.2 Description

Controls the tone returned to the caller. If the operating company does not want the tone returned, Gloctltone should be given a value zero. Dividing the value by ten gives the tone duration in seconds. The recommended default value is 50 or a 5-second tone duration. Must be given the same value in every IM. During an update, the change to a new value has no synchronization requirement.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 50

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 50;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gloctltone.values: */

Gloctltone is_in {0 thru 127};
```

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# Glodbama

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glodbama | FP | DMbool |

### 1.1 Fullname:

Global Office Parameter Glodbama

### 1.2 Description:

The Enhanced B-Channel Packet Switching (EBPS) feature allows the user to dynamically use the DSL for circuit or packet switching. To use the DSL for packet switching when the DSL is in circuit switching mode, the user must set up the B-channel for packet switching via Q.931 signaling.

The Glodbama parameter indicates whether the office desires to generate AMA Billing Entries for the time period during which the B-channel is set up for packet switching.

These billing entries are separate from and in addition to the billing entries produced for the individual X.25 calls made during the time the B-Channel is set up for packet switching.

A value of DBYES implies that each On-Demand Packet Switching setup will generate a billing entry that will be handled by the AMATPS system. A value of DBNO implies that no such records will be produced. Only ISDN SMs can have a DBNO value.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBYES;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

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***Checks:***

```
/* RULE about Glodbama.values: */

if (current_pcr is_in sm_all) then
begin
        Glodbama is_in {DBNO, DBYES};
end

/* RULE about Glodbama: */

if (current_pcr is_in sm_all) then
begin
        if (Glodbama == DBNO) then
        begin
                if (runucv) then
                find == 1 lpconfig in RLlpconfig
                where (lpconfig.smconfig == Glconfigname &&
                       lpconfig.package == GLISDNPODS);
        end
end
```

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# Glodbbri

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glodbbri | FP | DMushort |

### 1.1 Glodbbri

On Demand B-channel Basic Rate Interface Global Parameter

### 1.2 Description

Contains an SM's count of the number of BRIs which have an ODB packet feature assigned. Its value is maintained over all initializations and updated via trigger functions as ODB features are assigned

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions when an ODB packet feature is assigned. Its value can increase and decrease.
retrofit-oda-rules: Not applicable.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glodbbri.values: */
        Glodbbri is_in {0 thru 65535};
/* RULE about Glodbbri: */
        Glodbbri == count(uniq(RLodpsop.port));
end
```

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# Gloddea

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gloddea | LP | DMulong |

### 1.1 Gloddea

Global Office Parameter Gloddea

### 1.2 Description

Gloddea is the ending address of the PIP ODD. The value of Gloddea should be DBundb[] + (DBphysblks * DBBSIZE) - 1.

***NOTE:*** DBBSIZE is the size in bytes of an ODD block.

***Type:*** DBULONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard - LP */
        ;
```

***Checks:***

```
/* RULE about Gloddea.values: */
        /* no check */ ;
```

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# Gloddsa

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gloddsa | LP | DMulong |

### 1.1 Gloddsa

Global Office Parameter Gloddsa

### 1.2 Description

Gloddsa is the starting address of the PIP ODD. The value of Gloddsa should be Gldoddea + 1.

***Type:*** DBULONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Gloddsa.values: */
        /* no check */ ;
```

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# Glodtr0pi

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glodtr0pi | FP | DMrellnkno |

### 1.1 Fullname:

Global Office Parameter odd DLI's TRCU PATH for side 0.

**Defines:** db/DMrellnkno.h

### 1.2 Description:

Provides in a classic ORM, what the TRCU path is for the odd part of DLI on side 0.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 36

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** None;

***Retrofit Rules:*** In EVL. (These needs to be populated in 5e12.1)

***Default Rules:***
```
default = $SMINVLNKNO;
```

***Distribution Rules:***
```
for modatt in RLmodatt
begin
        pcrlist[modatt.module] = true;
end
```

***Import:***
```
cktdefs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
        Glodtr0pi is_in {0, 1, $SMINVLNKNO};

        if( (Glimtype == SM5ORM) &&
           ! (SM2000(current_pcr)) ) then
```

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```
        begin
                /* This is a classic ORM. */
                find == 1 tpath in RLtrcupath
                where (tpath.sm == current_pcr &&
                       tpath.trcu_pi == Glodtr0pi)
                when_found
                begin
                        if(tpath.type == SMTRCU3) then
                        begin
                                Glodtr0pi == 1;
                        end
                        else
                        begin
                                Glodtr0pi == 0;
                        end
                end
        end
        else
        begin
                        Glodtr0pi == $SMINVLNKNO;
        end
end
```

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# Glodtr1pi

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glodtr1pi | FP | DMrellnkno |

### 1.1 Fullname:

Global Office Parameter odd DLI's TRCU PATH for side 1.

**Defines:** db/DMrellnkno.h

### 1.2 Description:

Provides in a classic ORM, what the TRCU path is for the odd part of DLI on side 1.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 36

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** None;

***Retrofit Rules:*** In EVL. (These needs to be populated in 5e12.1)

***Default Rules:***
```
default = $SMINVLNKNO;
```

***Distribution Rules:***
```
for modatt in RLmodatt
begin
        pcrlist[modatt.module] = true;
end
```

***Import:***
```
cktdefs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
        Glodtr1pi is_in {1, $SMINVLNKNO};

        if((Glimtype == SM5ORM) &&
           ! (SM2000(current_pcr)) ) then
```

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```
        begin
                /* This is a classic ORM. */
                find == 1 tpath in RLtrcupath
                where (tpath.sm == current_pcr &&
                       tpath.trcu_pi == Glodtr1pi);
                Glodtr1pi == 1;
        end
        else
        begin
                Glodtr1pi == $SMINVLNKNO;
        end
end
```

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# Glofc_oli

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glofc_oli | FR | DMuchar |

### 1.1 Fullname:

Office Originating line information

### 1.2 Description:

This global parameter records the default originating line (OLI) and will be used to populate the ISUP OLI parameter for outgoing ISUP calls when the rlRTROUTING.eon_sup_cn is set to DBYES.

SFID 515 must be unlocked prior to assigning a value to Glofc_oli.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** None.

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glofc_oli.values: */

Glofc_oli is_in {0 thru 99};
```

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# Gloff6

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gloff6 | FR | DMulong |

### 1.1 Fullname:

Global Office Parameter Gloff6

### 1.2 Description:

Spare global parameter to be used for OSPS special features

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gloff6.values: */
/* No checks */
```

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# Gloff7

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gloff7 | FR | DMulong |

### 1.1 Fullname:

Global Office Parameter Gloff7

### 1.2 Description:

This is the Gloff7 global parameter.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Gloff7.values: */
/* NOTE: The following values are in hex. */

Gloff7 is_in {0};
```

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# Gloff8

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gloff8 | FR | DMulong |

### 1.1 Fullname:

Global Office Parameter Gloff8

### 1.2 Description:

This global parameter is reserved as a spare for use in future SU development.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** set to the default value

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gloff8.values: */
        /* no checks */
```

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# Gloff11

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gloff11 | FR | DMulong |

### 1.1 Fullname:

Global Office Parameter Gloff11

### 1.2 Description:

This parameter is reserved for future fast feature development work. It should be initialized to zero.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Not applicable.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0x0;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Gloff11.values: */
begin
        Gloff11 == 0;
end
```

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# Glogr_odr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glogr_odr | FP | DMbool |

### 1.1 Fullname:

Global Office Parameter Glogr_odr

### 1.2 Description:

This Global Parameter will indicate whether the MTP Outgoing Routing Optional Data Region should be allocated in the SMP. This ODR will only be allocated on SS7 Global SMs which have at least one CCS PH22 channel group.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***TRIGGER:*** CCogr_odr,

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ---

***Retrofit Rules:*** When retrofiting to 5E14, Glogr_odr should be set to DBNO, since PH22s do not exist in 5E13.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        for gsm_opc in RLgsm_opc
        begin
                pcrlist[gsm_opc.gsm] = true;
        end
```

***Checks:***
```
/* The Out Going Routing Optional Data Region (OGR ODR)
 * must be allocated on any GSM that has a CCS PH22 image.
 * In order to make this check inclusive of any future CCS
 * PH images that come after PH22, the check will be made
 * to exclude PH3, rather than explicitly checking for PH22.
 */

if (Gl_pcrid == Glglobalsm) then
```

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```
begin
        let CCSPH22PLUS = count {dslgdata in RLdslgdata
                          where ((dslgdata.dsltype is_in {PS_ST7,
                                PS_MD, PS_MDST7, PS_CCSQPH}) &&
                                (dslgdata.hw_type != SMPH3))};

        if (CCSPH22PLUS != 0) then
        begin
                Glogr_odr == DBYES;
        end
        else
        begin
                Glogr_odr == DBNO;
        end
end
else
begin
        Glogr_odr == DBNO;
end
```

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# Glomap_enc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glomap_enc | FP | DMomap_enc |

### 1.1 Fullname:

Global Office Parameter Glomap_enc

### 1.2 Description:

This Global Parameter is used to indicate which type of encoding/decoding scheme is used by OMAP in this GSM. There are two types of encoding which can be used to populate this Global Parameter, CCITT_BLUBK - Q795 Blue Book Encoding CCITT_WHTBK - Q754 White Book Encoding

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** CCITT_BLUBK

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** The value of Glomap_enc should be CCITT_BLUBK. The value of Glomap_enc cannot be modified via Recent Change or ODA.

***Retrofit Rules:*** The value of Glomap_enc should be preserved over retrofit.

***Default Rules:***

```
default = CCITT_BLUBK;
```

***Distribution Rules:***

```
        for modatt in RLmodatt
        begin
                pcrlist[modatt.module] = true;
        end
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
        Glomap_enc == CCITT_BLUBK;
end
```

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# Glopama

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glopama | FR | DMbool |

### 1.1 Fullname:

AMA Billing for Operator and Directory Assistance Calls

### 1.2 Description:

This global parameter identifies whether this office will generate AMA records for Operator Services and Directory Assistance calls. This feature will not be allowed to be set to yes unless Special Feature ID (SFID) 281 has been purchased for the office. But this global can be set to NO if SFID281=YES.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***

```
/* if ( SFID281 == DBNO ) then
        Glopama == DBNO;  */
```

***Retrofit Rules:*** /* This global will be populated from spare Glsf3dummy */

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* SM Redundant */
```

***Checks:***

```
        Glopama is_in { DBNO, DBYES };
```

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# Gloprtk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gloprtk | FP | DMshort |

### 1.1 Fullname:

Count of ports for trunk groups in RLfc_oprtk

### 1.2 Description:

This parameter is a count of ports for trunk groups which appear in RLfc_oprtk.

This parameter does not appear on any ODA form. This parameter does not appear on any Recent Change view.

The Recent Change mapping code for views 5.5 (TRUNK) and 26.26 (RC_OPRTK) will maintain the value of Gloprtk as tuples are inserted and deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** OAalo_coinot,

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** The value of this parameter is established by ODA and will be updated by RC mapping functions as trunks are inserted or deleted. Its value can increase and decrease.

***Retrofit Rules:*** This parameter is recalculated at retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
```

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```
/* RULE about Gloprtk.values: */

Gloprtk is_in {0 thru 24192};

end

/* RULE about Gloprtk: */

function func() returning int
begin
        tottrk = 0;
        for fc_oprtk in RLfc_oprtk
        begin
                tottrk = tottrk + count({fc_trunk in RLfc_trunk where
                        (fc_trunk.tgroup == fc_oprtk.tgroup)});
        end
        return tottrk;
end

if (current_pcr is_in sm_all) then
begin

        if (runslow) then
        begin
                Gloprtk == func();
        end

/* check for existence of certain GPD */
/* other checks are in RLmodatt.R and RLfc_portt.R */
if (Gloprtk > 0) then
begin
        if (runucv) then
        find == 1 db_gpdus in RLdb_gpdus
        where ( db_gpdus.grp_type == GPD_OPRT &&
                db_gpdus.grp_id == 2 &&
                db_gpdus.module == current_pcr );

end

end
```

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# Glor_resId

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glor_resId | FR | DMbool |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter contains a settable office option to control AMA recording via RC/V view 8.1. When it is set to DBYES, additional EBAF modules will be appended to the AMA recored for resold line origination. Its default value is DBNO. This global will replace the second bit of Glsf8dummy used in 5e12SU and 5e13SU.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** ---

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***

```
/* Check for purchase of the resale/unbundling feature.
 * if (SFID321 == DBNO) then
 *     Glor_resId == DBNO;
 */
```

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
        /* no check */ ;
```

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# Glor_unbld

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glor_unbld | FR | DMbool |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter contains a settable office option to control AMA recording via RC/V view 8.1. When it is set to DBYES, additional EBAF modules will be appended to the AMA record for unbundled line origination. Its default value is DBNO. This global will replace the first bit of Glsf8dummy used in 5e12SU and 5e13SU.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** ---

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***

```
/* Check for purchase of the resale/unbundling feature.
 * if (SFID321 == DBNO) then
 *     Glor_unbld == DBNO;
 */
```

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
        /* no check */ ;
```

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# Glospcb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glospcb | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glospcb - OSPCB tuple count

### 1.2 Description:

This global parameter contains a count of the number of OS Processor Control Blocks. The value of this parameter is determined during full initializations and updated as tuples are inserted via trigger functions.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions when Glcalltrn, Gleds_port, or Glphdbnum are changed. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
AVextern.R,
sqrt.R
```

***Checks:***
```
/* RULE about Glospcb.values: */

/* Glospcb is_in {0 thru (DBQNOSPCB - DBSFOSPCB)}; */

if (current_pcr is_in sm_all) then
begin
        Glospcb is_in {0 thru (26000 - 0)};
```

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```
end


/* RULE about Glospcb */

function func() returning int
begin

/* Calculate number of processes needed by call transfers */
call_rate = 5;
frct_num = 5;
frct_den = 100;
htcall = 210;
mupcbct = call_rate * Glcalltrn * frct_num * htcall / frct_den / 3600;
ospcb = mupcbct + (5 * sqrt (mupcbct));

/* Calculate number of PCBs needed for Electronic Directory Service */
calldp = 1;
htdp = 60;
mupcbdp = calldp * htdp * Gleds_port / 3600;
ospcb = ospcb + mupcbdp + (5 * sqrt (mupcbdp));

/* Calculate number of PCBs needed for ISDN display feature such as
 * TOD, inspect, etc.
 */
frmd_num = 5;
frmd_den = 100;
mupcbmd = Glmaxterm * frmd_num / frmd_den;
ospcb = ospcb + mupcbmd + (5 * sqrt (mupcbmd));

/* Calculate number of PCBs needed for Shared DN terminations. */

frsdtm_num = 8;
frsdtm_den = 10;
npcbipct = 0;
mupcbsd = call_rate * (Glsdnnum + Gllsdnnum) * frsdtm_num *
                                htcall / frsdtm_den / 3600;
ospcb = ospcb + mupcbsd + (5 * sqrt (mupcbsd));

/*
 * Compute the number of tuples needed for Provisioned Busy and
 * No Answer Terminating trigger Calls.
 * (Refer to os/OSprocs/OSrlxcb.c/OSnumrlpcb() for details).
 */
if (Gltbllines > 0 || Gltnalines > 0 || Gltatlines > 0) then
begin
        mu_tblna = ((Gltbllines + 2879) / 2880)  +
                   ((Gltnalines + 79) / 80)  +
                   ((Gltatlines + 719) / 720);

        ospcb = ospcb + mu_tblna + (5 * sqrt (mu_tblna));
end

/* Compute the number of pcbs needed for Busy Line No Answer
```

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```
 * Originating Trigger calls using the office wide triggers and
 * those provisioned to the line. The office feature is considered
 * active when Glorgbltrg or Glorgnatrg contain a valid (non-zero)
 * trigger number.  The parameter Globlnalin contains the count of
 * lines that have either an active busy line or an active no
 * answer trigger assigned to the line.
 *     # calls = (call rate)(%penetration )(#lines)*(holding time)
 *     # /3600
 *     call rate = 2.5
 *     %penetration = 100%
 *     holding time = 20 sec
 */
/* Compute the number of PCBs for office wide BLNA triggers */

if (Glorgbltrg > 0 || Glorgnatrg > 0) then
begin
        ospcb = ospcb + ((Glalinecnt + Glshanal + Glmaxterm)/72);
end

/* Compute the number of PCBs for provisioned BLNA triggers */
if ( Globlnalin > 0 ) then
begin
        ospcb = ospcb + ( ( Globlnalin + 71 )/72 );
end

npcbfeat = Glpcbodb + npcbipct;

/* npcbhdw = Glphdbnum + AVNONCALLTPS + AVSMSYSP; */

npcbhdw = Glpcbhdw;

ospcb = ospcb + npcbhdw + npcbfeat;

/* Limit the number of PCBs to their maximum value.
 */
for modatt in RLmodatt
where (modatt.module == current_pcr)
begin
        if (modatt.unittype is_in {SMSM2000, SMSM2005}) then
        begin
                if (ospcb + Gliospcb > AVMXOSPCBS_ASM2K()) then
                begin
                        ospcb = AVMXOSPCBS_ASM2K();
                end
        end
        else
        begin
                if (ospcb + Gliospcb > AVMXOSPCBS_ASM()) then
                begin
                        ospcb = AVMXOSPCBS_ASM();
                end
        end
end
```

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```
return ospcb;

end

if (current_pcr is_in sm_all) then
begin
        let OSPCB = func();
        find == 1 modatt in RLmodatt
        where (modatt.module == current_pcr)
        when_found
        begin
                if (modatt.unittype is_in {SMSM2000, SMSM2005})
                then
                begin
                        /* if (OSPCB + Gliospcb <= (AVMXOSPCB))
                         * then */

                        if (OSPCB + Gliospcb <= AVMXOSPCBS_ASM2K()) then
                        begin
                                Glospcb >= OSPCB + Gliospcb;
                        end
                        else
                        begin
                                /* Glospcb == AVMXOSPCB; */
                                Glospcb == AVMXOSPCBS_ASM2K();
                        end
                end
                else
                begin
                        /* if (OSPCB + Gliospcb <= (AVMXOSPCB))
                         * then */

                        if (OSPCB + Gliospcb <= AVMXOSPCBS_ASM()) then
                        begin
                                Glospcb >= OSPCB + Gliospcb;
                        end
                        else
                        begin
                                /* Glospcb == AVMXOSPCB; */
                                Glospcb == AVMXOSPCBS_ASM();
                        end
                end
        end
end
```

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# Glospsraf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glospsraf | FP | DMbool |

### 1.1 Fullname:

Global Office Parameter Glospsraf

### 1.2 Description:

This parameter indicates whether the announcement facilities provided by the DSU2-RAF units within an OSPS office should be utilized to provide automated announcements.

A value of DBYES implies that OSPS has the facility of using the DSU2-RAFs to provide automated announcements to the customer. A value of DBNO implies that OSPS cannot use the DSU2-RAFs to provide automated announcements to the customer. This parameter does not imply the existence of DAS/C vendor links to the switch.

This parameter must be DBNO unless there is at least one loaded SM in the office.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBYES;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R,
smconf.R
```

***Checks:***
```
/* RULE about Glospsraf.values: */

if (current_pcr is_in sm_all) then
```

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```
begin
        Glospsraf is_in {DBNO, DBYES};
end

/* RULE about Glospsraf: */

if (current_pcr is_in sm_all) then
begin
        if (Glospsraf == DBYES) then
        begin
                /* there exists at least one loaded SM in the office */
                if (runucv) then
                PLSMCONF(GLOPSMDAAC) == true;
        end
end
```

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# Glostcb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glostcb | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glostcb - OSTCB tuple count

### 1.2 Description:

This global parameter contains a count of the number of OSDS Timer Control Blocks. The value of this parameter is determined during full initializations and updated as tuples are inserted via trigger functions.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions when Glcv_state, Glqv_state, Glpcbhdw, or Glpcbodb are changed. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
AVextern.R,
sqrt.R
```

***Checks:***
```
/* RULE about Glostcb.values: */

/* Glostcb is_in {0 thru (DBQNOSTCB - DBSFOSTCB - DBQNOSPCB)}; */

if (current_pcr is_in sm_all) then
begin
```

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```
        Glostcb is_in {200 thru (32765 - 0 - 26000)};
end


/* RULE about Glostcb */

function func() returning int
begin
frtcbhdw_num = 1;
frtcbhdw_den = 4;
ostcb = Glpcbhdw * frtcbhdw_num / frtcbhdw_den;

frtcbcvs_num = 4;
frtcbcvs_den = 5;
ntcbcvst = (Glcv_state + Glqv_state) * frtcbcvs_num / frtcbcvs_den;

if (ntcbcvst == 0) then
begin
        frtcbodb_num = 1;
        frtcbodb_den = 3;
        ostcb = ostcb + (Glpcbodb * frtcbodb_num / frtcbodb_den);
end
else
begin
        ostcb = ostcb + ntcbcvst;
end

if (Glospson == DBYES || Glospsta == DBYES) then
begin
        if (count({lpconf in RLlpconfig
        where (lpconf.smconfig == Glconfigname &&
        lpconf.package == GLOPSMDAAC)}) == 1) then
        begin
                ntcbhob = 100;
                frtcbca1 = 1;
                frtcbca2_num = 1;
                frtcbca2_den = 2;
                frtcbca3_num = 3;
                frtcbca3_den = 10;
                ntcbcasl = 50;
                mutcbca = Gltrkcnt * frtcbca1 * frtcbca2_num *
                          frtcbca3_num / frtcbca2_den /
                          frtcbca3_den;
                ntcbcas = mutcbca + 5 * sqrt( mutcbca ) + ntcbcasl;
                ostcb = ostcb + ntcbhob + ntcbcas;
        end
end

/*
 * Compute the number of tuples needed for Provisioned Busy and
 * No Answer Terminating trigger Calls.
 * (Refer to os/OSprocs/OSrlxcb.c/OSnumrltcb() for details).
 */
```

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```
if (Gltbllines > 0 || Gltnalines > 0 || Gltatlines > 0) then
begin
        mu_tblna =  ((Gltbllines + 2879) / 2880)  +
                        ((Gltnalines + 79) / 80)  +
                        ((Gltatlines + 719) / 720) ;
        ostcb = ostcb + mu_tblna + ( 5 * sqrt(mu_tblna) );
end

/* Compute the number of TCBs needed for Busy Line No Answer
 * Originating Trigger calls using the office wide triggers and
 * those provisioned to the line. The office feature is considered
 * active when Glorgbltrg or Glorgnatrg contain a valid (
 * non-zero) trigger number.  The parameter Globlnalin contains
 * the count of lines that have either an active busy line or
 *  an active no answer trigger assigned to the line.
 *     # calls = (call rate)(%penetration )(#lines)*
 *     # (holding time) /3600
 *     call rate = 2.5
 *     %penetration = 100%
 *     holding time = 20 sec
 */
/* Compute the number of TCBs for office wide BLNA triggers */
if (Glorgbltrg > 0 || Glorgnatrg > 0) then
begin
        ostcb = ostcb + ((Glalinecnt + Glshanal + Glmaxterm)/72);
end

/* Compute the number of TCBs for provisioned BLNA triggers */
if ( Globlnalin > 0 ) then
begin
        ostcb = ostcb + ( ( Globlnalin + 71 )/72 );
end

/* Guarantee a minimum number of TCBs for system processes.
 */
if (ostcb < 200) then
begin
        ostcb = 200;
end

/* Limit the number of TCBs to their maximum value.
 */
for modatt in RLmodatt
where (modatt.module == current_pcr)
begin
        if (modatt.unittype is_in {SMSM2000, SMSM2005}) then
        begin
                if (ostcb + Gliostcb > (AVMXOSTCBS_ASM2K() -
                                        AVMXOSPCBS_ASM2K())) then
                begin
                        ostcb = AVMXOSTCBS_ASM2K() -
                                                AVMXOSPCBS_ASM2K();
                end
        end
```

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```
        else
        begin
                if (ostcb + Gliostcb > (AVMXOSTCBS_ASM() -
                                        AVMXOSPCBS_ASM())) then
                begin
                        ostcb = AVMXOSTCBS_ASM() - AVMXOSPCBS_ASM();
                end
        end
end

return ostcb;

end

BCostcb:  if (current_pcr is_in sm_all) then
begin
        let OSTCB = func();
        find == 1 modatt in RLmodatt
        where (modatt.module == current_pcr)
        when_found
        begin
                if (modatt.unittype is_in {SMSM2000, SMSM2005})
                then
                begin
                        /* if (OSTCB + Gliostcb <= (AVMXOSTCB -
                         * AVMXOSPCB)) then */

                        if (OSTCB + Gliostcb <=
                              (AVMXOSTCBS_ASM2K() -
                                 AVMXOSPCBS_ASM2K())) then
                        begin
                                Glostcb >= OSTCB + Gliostcb;
                        end
                        else
                        begin
                               /* Glostcb == AVMXOSTCB -
                                * AVMXOSPCB; */
                                Glostcb == (AVMXOSTCBS_ASM2K() -
                                             AVMXOSPCBS_ASM2K());
                        end
                end
                else
                begin
                        /* if (OSTCB + Gliostcb <= (AVMXOSTCB -
                                                AVMXOSPCB)) then */

                        if (OSTCB + Gliostcb <=
                              (AVMXOSTCBS_ASM() -
                                AVMXOSPCBS_ASM())) then
                        begin
                                Glostcb >= OSTCB + Gliostcb;
                        end
                        else
                        begin
```

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```
                        /* Glostcb == AVMXOSTCB - AVMXOSPCB; */
                           Glostcb == (AVMXOSTCBS_ASM() -
                                                AVMXOSPCBS_ASM());
                     end
               end
        end
end
```

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# Glothdeny

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glothdeny | FR | DMbool |

### 1.1 Fullname:

Global Office Parameter Glothdeny

### 1.2 Description:

This parameter indicates whether an other reply should be treated as collect deny on an IBNS R2 call that is blocked by cuckoo tone.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glothdeny values: */
```

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## 3.26 Glp

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# Glp1silc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glp1silc | LRFR | DMgapamt |

### 1.1 Glp1silc

Global Office Parameter Glp1silc

### 1.2 Description

Used by the network management automatic controls SILC feature. Gives rate (percentage from 0 to 100% in increments of 12.5) that calls will be blocked. Used during machine congestion level 1. Should be initialized to NMPCT0=16. Afterwards the parameter will be recent changeable and can be set to the following amounts:
`NMPCT0=16, NMPCT12_5=32, NMPCT25_0=48, NMPCT37_5=64, NMPCT50_0=80, NMPCT62_5=96, NMPCT75_0=112, NMPCT87_5=128, NMPCT100=144.`

This parameter is not dependent on other parameters.

***Type :*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** NMPCT0

***AM Initial Value:*** NMPCT0

***CMP Initial Value:*** NMPCT0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = NMPCT0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glp1silc.values: */

        /* no check */ ;
```

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# Glp2silc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glp2silc | LRFR | DMgapamt |

### 1.1 Glp2silc

Global Office Parameter Glp2silc

### 1.2 Description

Used by the network management automatic controls SILC feature. Gives rate (percentage from 0 to 100% in increments of 12.5) that calls will be blocked. Used during machine congestion level 2. Should be initialized to NMPCT0=16. Afterwards the parameter will be recent changeable and can be set to the following amounts:
`NMPCT0=16, NMPCT12_5=32, NMPCT25_0=48, NMPCT37_5=64, NMPCT50_0=80, NMPCT62_5=96, NMPCT75_0=112, NMPCT87_5=128, NMPCT100=144.`

This parameter is not dependent on other parameters.

***Type :*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** NMPCT0

***AM Initial Value:*** NMPCT0

***CMP Initial Value:*** NMPCT0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = NMPCT0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glp2silc.values: */
       /* no check */ ;
```

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# Glp101tl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glp101tl | LRFR | DMmodule |

### 1.1 Glp101tl

Global Office Parameter Glp101tl

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is TM 101 Test Line (Metallic Testing).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glp101tl.values: */
        /* no check */ ;
```

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# Glpacct

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpacct | LRFR | DMmodule |

### 1.1 Glpacct

Global Office Parameter Glpacct

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Account Codes.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 194

***AM Initial Value:*** 194

***CMP Initial Value:*** 194

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 194;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpacct.values: */
        /* no check */ ;
```

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# Glpacdbrcs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpacdbrcs | LRFR | DMmodule |

### 1.1 Glpacdbrcs

Maps the ACD/BRCS Queue Administration application to the processor on which the application resides.

### 1.2 Description

A set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which the application resides. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor.

Application type is ACD/BRCS Queue Administration.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 194

***AM Initial Value:*** 194

***CMP Initial Value:*** 194

***RC/ODA Rules:*** not applicable

***Retrofit Rules:***
```
/* See evolution rules in Glpacdbrcs.V */
```

***Default Rules:***
```
default = 194;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpacdbrcs.values: */
        /* no check */ ;
```

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# Glpacdq

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpacdq | LRFR | DMmodule |

### 1.1 Glpacdq

Global Office Parameter Glpacdq

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is ACD Queue Administration .

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 194

***AM Initial Value:*** 194

***CMP Initial Value:*** 194

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 194;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpacdq.values: */
        /* no check */ ;
```

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# Glpacsr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpacsr | LRFR | DMmodule |

### 1.1 Glpacsr

Global Office Parameter Glpacsr

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Automatic Customer Station Rearrangement.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpacsr.values: */
        /* no check */ ;
```

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# Glpalit

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpalit | LRFR | DMmodule |

### 1.1 Glpalit

Global Office Parameter Glpalit

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Automatic Line Insulation Test.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpalit.values: */
        /* no check */ ;
```

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# Glpama

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpama | LRFR | DMmodule |

### 1.1 Glpama

Global Office Parameter Glpama

### 1.2 Description

A new set of global parameters is needed i all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is global automatic message accounting.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpama.values: */
        /* no check */ ;
```

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# Glpatdn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpatdn | LP | DMbool |

### 1.1 Glpatdn

Global Office Parameter Glpatdn

### 1.2 Description

This parameter is used by the OSPS auto-reconfiguration process to determine if pattern tuples in RLaut_rec are to be marked as having been processed. When set to DBYES, pattern tuples with time-of-day values equal to and prior to the current time will have their pattern done attributes set to DBYES by the auto-reconfiguration process which will also set the parameter back to DBNO. ODA always populates this parameter with the default value. This parameter is not populated from any ODA form.

Recent Change default: N/A

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** 0

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard - LP */
        ;
```

***Checks:***

```
/* RULE about Glpatdn.values: */

Glpatdn on cmp is_in {DBNO, DBYES};
```

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# Glpaudring

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpaudring | FP | DMshort |

### 1.1 Fullname:

Global Office Parameter Glpaudring

### 1.2 Description:

Contains the number of the peripheral channel which currently sources precedence audible ringing to the network. At power-up initialization, this variable should contain the value 511. There is no way for the switch personnel to update this value, only the *5ESS*® software can do it.

This Global Parameter is unused by SM-2000. At initialization this parameter must be set to 511.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 511

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** This value should remain intact during a Generic Retrofit.

***Default Rules:***
```
default = 511;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
cktdefs.R
```

***Checks:***
```
/* RULE about Glpaudring: */

BCpaudring:  if (current_pcr is_in sm_all) then
begin
        if ( !SM2000(current_pcr) ) then
                Glpaudring is_in {0 thru 511};
```

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```
end
```

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# Glpauth

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpauth | LRFR | DMmodule |

### 1.1 Glpauth

Global Office Parameter Glpauth

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Authorization Codes .

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpauth.values: */

        /* no check */ ;
```

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# Glpbgmod

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpbgmod | FR | DMbool |

### 1.1 Glpbgmod

Global Office Parameter Glpbgmod Packet Business Group Automatic Message Accounting Modules

### 1.2 Description

The global office parameter Glpbgmod specifies whether packet business group Automatic Message Accounting (AMA) modules will be included in a packet business group AMA record.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:***
Retrofit for 5E7 to 5E8:
The Global Office Parameter Glpbgmod must be created on all ISDN SMs and populated with DBNO.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpbgmod.values: */

/* no check */ ;

/* RULE about Glpbgmod: */

if (Glpbgmod == DBYES) then
begin
        for pbg_info in RLpbg_info
        begin
                pbg_info.bill_dn.digcnt == 10;
```

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```
        end
end
```

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# Glpbkup

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpbkup | LRFR | DMmodule |

### 1.1 Glpbkup

Global Office Parameter Glpbkup

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Global ODD Backup .

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpbkup.values: */
        /* no check */ ;
```

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# Glpblf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpblf | LRFR | DMmodule |

### 1.1 Glpblf

Global Office Parameter Glpblf

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Global Busy Lamp Field.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpblf.values: */
        /* no check */ ;
```

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# Glpc_dnpriv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpc_dnpriv | LRFP | DMaccess |

### 1.1 Glpc_dnpriv

Global Office Parameter Glpc_dnpriv

### 1.2 Description

This parameter is used to indicate ICLID per call DN privacy feature access. It indicates whether the feature is unavailable for use, whether subscription is required to access the PCP feature, whether the feature is generally available or whether the feature is temporarily unavailable for use. ODA must set its value to SUBSCRIPTION when retrofitting from the 5E4(2) generic. ODA must retain its value across retrofits to post 5E5 generics. The AM parameter is changed by RC only when the 'ALL' value is used for the SM key on the LASS Feature Access View. The AM parameter reflects the office standard value and is typically used to set the SM parameter after SM growth.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** UNAVAILABLE

***AM Initial Value:*** UNAVAILABLE

***CMP Initial Value:*** UNAVAILABLE

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = UNAVAILABLE;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glpc_dnpriv.values: */
        /* no check */ ;
```

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# Glpcbhdw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpcbhdw | FP | DMushort |

### 1.1 Glpcbhdw

PCB tuples Hardware Global Parameter

### 1.2 Description

Contains an SM's count of PCB tuples needed due to hardware and fixed software values.

Its value is maintained over all initializations and updated via trigger functions as hardware is installed.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***
This parameter is not supported by RC. The value of this parameter is established by ODB and will be updated by trigger functions when hardware is installed. Its value can increase and decrease.

***Retrofit-ODA Rules:***
Not applicable.

***Retrofit Rules:***
This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
AVextern.R
```

***Checks:***
```
/* RULE about Glpcbhdw.values: */
```

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```
if (current_pcr is_in sm_all) then

begin

        /* Glpcbhdw is_in {0 thru (DBQNOSPCB - DBSFOSPCB) }; */

        Glpcbhdw is_in {0 thru 26000};

/* RULE about Glpcbhdw: */

function func() returning int
begin
     avsmsysp = 105; /* AVSMSYSP = maximum number of SM OSDS SPs */
     avnoncalltps = 0;

if (current_pcr is_in {1 thru 192}) then
begin
     find == 1 modatt in RLmodatt
     where (modatt.module == current_pcr)
     when_found
     begin
         if (modatt.unittype is_in {SMSM2000, SMSM2005}) then
         begin
             /* # of non-call processing TPs (such as, MRA, ISPA) SM-2000 */
             avnoncalltps = AVNONCALLTPS_ASM2K();
         end
         else
         begin
              /* # of non-call processing TPs (such as, MRA, ISPA) SM */
              avnoncalltps = AVNONCALLTPS_ASM();
         end
     end
end
     pcbhdw = Glphdbnum + avnoncalltps + avsmsysp;
     return pcbhdw;
end
     Glpcbhdw == func();
end
```

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# Glpcbodb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpcbodb | FP | DMushort |

### 1.1 Glpcbodb

PCB tuples On Demand B-Channel Global Parameter

### 1.2 Description

This global parameter contains an SM's count of PCB tuples needed due to On Demand B-Channel (ODB) packet.

Its value is maintained over all initializations and updated via trigger functions as ODB features are assigned.

***Type :*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***
This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions when an ODB packet feature is assigned. Its value can increase and decrease.

***Retrofit-ODA Rules:***
Not applicable.

***Retrofit Rules:***
This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
```

***Checks:***
```
/* RULE about Glpcbodb.values: */
```

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```
function func() returning int
begin

/*      frodb = 1/5;  * Fraction of the time during the busy hour
                      * that a BRI with the ODB packet feature
                      * assigned is using ODB packet
        mupcbodb = Glodbbri * frodb;

                      * 4 is added to compensate for the
                      * floating point calculation difference
                      * of the prl and odd values.
*/

        mupcbodb = (Glodbbri + 4) / 5;

        pcbodb = mupcbodb + (5 * sqrt(mupcbodb));

        return pcbodb;

end

if (current_pcr is_in sm_all) then

begin

        /* Glpcbodb is_in {0 thru (DBQNOSPCB - DBSFOSPCB) }; */

        Glpcbodb is_in {0 thru 65535};

        Glpcbodb == func();
end
```

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# Glpccc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpccc | LRFR | DMmodule |

### 1.1 Glpccc

Global Office Parameter Glpccc

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is global critical craft control.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpccc.values: */
        /* no check */ ;
```

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# Glpccs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpccs | LRFR | DMmodule |

### 1.1 Glpccs

Global Office Parameter Glpccs

### 1.2 Description

A new set of global parameters is needed is all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Global CCS.

***Type :*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpccs.values: */
/* Glpccs should always be 193. */
Glpccs == 193;
```

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# Glpccslk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpccslk | LRFR | DMmodule |

### 1.1 Glpccslk

Global Office Parameter Glpccslk

### 1.2 Description

A new set of global parameters is needed is all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is CCS Link Server (AM/DLN).

Glpccslk parameter has the default value and only the default value except for the following:

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** This parameter has the following dependency on Glccs and Gldln:

If Glccs indicates that CCS transport is provided by the CNI/PSU and Gldln indicates a DLN is equipped, then Glpccslk should be set to 245.

If Glccs indicates that CCS transport is provided by the CNI/PSU and Gldln indicates no DLN is equipped, then Glpccslk should be set to 193.

If Glccs indicates that no CCS transport is provided, then Glpccslk should be set to 0.

```
     XXGlccs=CC_NOPLATFORM  Glccs!=CC_NOPLATFORM  Glccs!=CC_NOPLATFORM
     Gldln=NO              Gldln=NO              Gldln=YES

  Glpccslk 0                    193                   245
```

***Retrofit Rules:*** not applicable

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***Default Rules:***

```
default = 193;
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glpccslk.values: */
Glpccslk is_in {0, 193, 245};

if (Glccs != CC_NOPLATFORM) then
begin
        if (Gldln == DBYES) then
        begin
                Glpccslk == 245;
        end
        else
        begin
                Glpccslk == 193;
        end
end
else
begin
        Glpccslk == 0;
end
```

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# Glpcfh

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpcfh | LRFR | DMmodule |

### 1.1 Glpcfh

Global Office Parameter Glpcfh

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is TM call failure handling.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpcfh.values: */
        /* no check */ ;
```

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# Glpcga

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpcga | LRFR | DMmodule |

### 1.1 Glpcga

Global Office Parameter Glpcga

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is TM carrier group alarm.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpcga.values: */
        /* no check */ ;
```

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# Glpci7gr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpci7gr | LPFP | DMushort |

### 1.1 Glpci7gr

Global Office Parameter Glpci7gr - feature penetration parameter for Glentry7.

### 1.2 Description

The Glpci7gr global parameter contains an AM/SM's count of the number of tuple in RLampci7gr/RLpci7gr Its value is maintained over all initializations and updated via trigger functions as rlAMPCI7GR/rlPCI7GR tuples are inserted or deleted.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***
This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as rlAMPCI7GR/rlPCI7GR tuples are inserted or deleted. This is the "Feature Penetration" global parameter used by the SRE functionality. Its value can increase or decrease.

***Retrofit Rules:***
This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
None
```

***Checks:***
```
/* RULE about Glpci7gr.values: */


/*      Glpci7gr is_in {0 thru 3000};*/

function func() returning boolean
begin
```

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```
        i = 0;

        for ampci7gr in RLampci7gr
        begin
                i = i + 1;
        end
        assert(Glpci7gr == i);
        return true;
end

function func1() returning boolean
begin
        i = 0;
        for pci7gr in RLpci7gr
        begin
                i = i + 1;
        end
        assert(Glpci7gr == i);
        return true;
end
        /* rule for AM */
if ( current_pcr == am ) then
begin
        func();
end

        /* rule for SM */
if ( current_pcr is_in sm_all ) then
begin
        func1();
end
```

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# Glpci7lab

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpci7lab | LPFP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glpci7lab - feature penetration parameter for Glcindx7.

### 1.2 Description:

The Glpci7lab global parameter contains an AM/SM's count of rlPCI7LAB tuples. Its value is maintained over all initializations and updated via trigger functions as rlPCI7LAB tuples are inserted or deleted.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as rlPCI7LAB tuples are inserted or deleted. This is the "Feature Penetration" global parameter used by the SRE functionality. Its value can increase or decrease.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        ;
```

***Checks:***
```
/* RULE about Glpci7lab: */

function func() returning boolean
begin
        count_var = 0;
        for pci7_lab in RLpci7_lab
        begin
                count_var = count_var + 1;
        end
                assert(Glpci7lab == count_var);
        return true;
```

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```
end
func();
```

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# Glpcimap

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpcimap | FP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glpcimap

### 1.2 Description:

This global parameter represents a bit map. Each bit in Glpcimap is associated with 32 Point Code Indices (PCIs). If the GSM owns a PCI in the group then the corresponding bit is set. If the GSM does not own any PCIs then only bit zero is set.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0x0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global parmeter can not be modified by RC or ODA.

***Retrofit Rules:*** The value of this global parameter should be preserved during a retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for i in {1 thru 192}
        begin
                pcrlist[i] = true;
        end
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
        Glpcimap is_in {0 thru 0xFFFFFFFF};
end
```

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# Glpcio

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpcio | LRFR | DMmodule |

### 1.1 Glpcio

Global Office Parameter Glpcio

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Global Craft I/O .

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpcio.values: */
        /* no check */ ;
```

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# Glpctfi

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpctfi | LR | DMpctfint |

### 1.1 Glpctfi

Global Office Parameter Glpctfi

### 1.2 Description

Per Call Test Failure (PCTF) interval. This office parameter is used to indicate the time interval between PCTF SUMMARY reports. The report will be generated automatically based on the value stored in this parameter. Quarter-hour intervals ranging from 15 minutes up to 60 minutes are valid; longer duration intervals of 6 hours and 24 hours are also allowed. The parameter should be recent changeable.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** 0

***AM Initial Value:*** DB_60MIN

***CMP Initial Value:*** DB_60MIN

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DB_60MIN;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpctfi.values: */
        /* no check */ ;
```

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# Glpctfree

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpctfree | LPFP | DMlong |

### 1.1 Glpctfree

Global Office Parameter Glpctfree

### 1.2 Description

Gives the percent of free space desired in the SM static ODD (memory equippage permitting). This parameter is used in conjunction with Glmaxodd. If 100/(100 - Glpctfree) times the data space required by DBGEN exceeds Glmaxodd, the ODD size is set to Glmaxodd and an appropriate warning message is printed. Adds freespace to the end of the SM/CMP ODD. With different configurations possible and widely varying ODD sizes within the same office, it is important that the customer be allowed to specify this parameter per SM, CMP or RSM. It should also be possible for the customer to easily choose one value for all SMs or ranges of SM numbers.

The valid range is 1 - 99. For ODD data space exceeding 2 Megabytes, 20% free space may be excessive. SM/CMP ODD backup space on disk should be checked by consulting tables in 5EDOPS or in Switch Administration Guidelines.

The free space is used for RC transactions, hash re-organization and data growth. RC transactions need an average 256 K. Hash re-organization of large hash relation needs around 100K and the remaining free space is for future data growth.

It is guaranteed that an ODD Generated by the DBGEN tools will have a minimum of 256K of freespace. Therefore, if the calculated amount of freespace < 256K, DBGEN will set the freespace to 256K.

Freespace is calculated as a percentage of the entire (including freespace) ODD. Freespace is added to the amount of populated data (DBactblks - DBunblocks) resulting in the final size of the ODD (DBphysblks). NOTE that DBunblocks, the amount of unprotected (dynamic) data is subtracted out since the unprotected ODD is not part of the non-redundant SM/CMP ODD and, therefore, should not be used when calculating the amount of freespace.

For example, if an ODD has populated data (DBactblks - DBunblocks) of 700 and the GLPCTFREE parameter was set to 30, then DBGEN would calculate freespace to be 300 and set the size of the ODD (DBphysblks) to 1000.

***NOTE:*** Since Glpctfree is defined but not used by the AM, it should contain zero for the AM case.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 30

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

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***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glpctfree.values: */
if (current_pcr is_in {1 thru 192}) then
Glpctfree is_in {1 thru 99};
```

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# Glpcttu

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpcttu | LRFR | DMmodule |

### 1.1 Glpcttu

Global Office Parameter Glpcttu

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Centralized Trunk Test Unit.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpcttu.values: */
        /* no check */ ;
```

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# Glpddbm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpddbm | LRFR | DMmodule |

### 1.1 Glpddbm

Global Office Parameter Glpddbm

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Disk Data Base Manager.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpddbm.values: */
        /* no check */ ;
```

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# Glpdgn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpdgn | LRFR | DMmodule |

### 1.1 Glpdgn

Global Office Parameter Glpdgn

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Global Diagnostics/REX .

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpdgn.values: */
        /* no check */ ;
```

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# Glpdnic

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpdnic | FP | DMpsdnic |

### 1.1 Glpdnic

Global Office Parameter Glpdnic

### 1.2 Description

This global parameter specifies the Data Network Identification Code (DNIC) of the local BOC PPSN. The Glpdnic will be used in the PH to determine whether or not a packet call has crossed an X.75 trunk gateway.

For any SMs with the GLISDNBASE software loadable package, this parameter must be in the range 0x0001 through 0x9999. For any SMs without the GLISDNBASE software loadable package, this parameter must be 0.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
/* RULE about Glpdnic.values: */

        Glpdnic is_in {0x0000 thru 0x9999};

/* RULE about Glpdnic: */

if ( (count ( {
```

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```
        lpconf in RLlpconfig
        where ( lpconf.smconfig == Glconfigname &&
                lpconf.package == GLISDNBASE ) } ) == 0 ) ) then
        Glpdnic == 0;
end
else
begin
ORgl_1:         Glpdnic != 0;
end

end
```

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# Glpeadas

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpeadas | LRFR | DMmodule |

### 1.1 Glpeadas

Global Office Parameter Glpeadas

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is EADAS/NM .

***Type :*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpeadas.values: */
        /* no check */ ;
```

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# Glpgckt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpgckt | LRFR | DMmodule |

### 1.1 Glpgckt

Global Office Parameter Glpgckt

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided.d This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Global Service Circuits.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 194

***AM Initial Value:*** 194

***CMP Initial Value:*** 194

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 194;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpgckt.values: */
        /* no check */ ;
```

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# Glpgcrtg

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpgcrtg | LRFR | DMmodule |

### 1.1 Glpgcrtg

Global Office Parameter Glpgcrtg

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Global Circuit Switched Routing. Glpgcrtg and Glpgprtg must always be equal.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 194

***AM Initial Value:*** 194

***CMP Initial Value:*** 194

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 194;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpgcrtg.values: */
        /* no check */ ;
```

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# Glpgdbm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpgdbm | LRFR | DMmodule |

### 1.1 Glpgdbm

Global Office Parameter Glpgdbm

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Global Data Base Manager.

Glpgdbm and Glprcmap must always be equal.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 194

***AM Initial Value:*** 194

***CMP Initial Value:*** 194

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 194;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpgdbm.values: */
        /* no check */ ;
```

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# Glpgprtg

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpgprtg | LRFR | DMmodule |

### 1.1 Glpgprtg

Global Office Parameter Glpgprtg

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Global Packet Switched Routing. Glpgcrtg and Glpgprtg must always be equal.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 194

***AM Initial Value:*** 194

***CMP Initial Value:*** 194

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 194;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpgprtg.values: */
        /* no check */ ;
```

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# Glpgrpsize

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpgrpsize | LR | DMcount |

### 1.1 Glpgrpsize

Global Office Parameter Glpgrpsize

### 1.2 Description

To keep track of the total number of pick up groups in the system for calculating the member tuples required for pick up and queuing. Must be set initially when pick up groups are assigned. It must also be incremented and decremented as additions and deletions of groups occur.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glpgrpsize.values: */
        /* no check */ ;
```

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# Glpgway

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpgway | LRFR | DMmodule |

### 1.1 Glpgway

Global Office Parameter Glpgway

### 1.2 Description

All of the above Glp... parameters have the default value and only the default value except for the following:

```
          GlCCS=NO  GlCCS=YES GlCCS=YES
          GlDLN=NO  GlDLN=NO  GlDLN=YES
Glpccslk      0       0         245
Glpccs        0       0         0
```

For export these 2 parameters are equal to parameter Glglobalsm.

Glpgcrtg and Glpgprtg must always be equal. Glpgdbm and Glprcmap must always be equal.

Recent Change/Verify (RC/V) Default: NA

ODA Default: as stated above

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glpgway.values: */
        /* no check */ ;
```

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# Glpha

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpha | FP | DMuchar |

### 1.1 Fullname:

Protocol Handler for ATM (PHA) count in a SM.

### 1.2 Description:

This global parameter represents the operational PHAs count per SM.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Not applicable.

***Retrofit Rules:*** Not applicable.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
            pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
/* runslow added due to linear search of CKTDATA and excessive cpu * usage */
if (runslow) then
begin

if (current_pcr is_in sm_all) then
begin
        Glpha == count({cktdata in RLcktdata
                        where ( (cktdata.type == PCPHPSIU) &&
                                (cktdata.cli == 0x10) &&
                                (cktdata.eqstat == SMOPER))});
```

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```
end
end
```

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# Glphdbnum

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glphdbnum | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glphdbnum - path data block number

### 1.2 Description:

This parameter contains a count of the number of peripheral time slots in an SM. For SMs, this parameter will always be populated with 512. For SM-2000 this parameter will be set to a default value of 512.

This value should remain intact during a Generic Retrofit.Glrhg_cnt.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 512

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** The value of this parameter should only be increased, and never decreased, by RC. It is increased, if necessary, when an (E)NLI pair is grown in. Its is *not* decreased when an (E)NLI pair is degrown. So, in the case of an (E)NLI pair degrowth followed by an (E)NLI pair growth, it wouldn't be necessary to increase the value of the parameter. SM-2000 requires a default value to support off-line pump and for test purposes.

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:***
```
default = 512;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glphdbnum: */

if (current_pcr is_in {1 thru 192}) then
begin
```

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```
        Glphdbnum is_in {512 thru 29697};

if (runucv) then
begin

find == 1 modatt in RLmodatt
where (modatt.module == current_pcr)
when_found
        if (modatt.unittype is_in {SMSM2000, SMSM2005}) then
        begin
                Glphdbnum >= 512;
                Glphdbnum >= Glptsdbnum;
        end
        else
        begin
                Glphdbnum == 512;
        end
end
end
```

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# Glphistory

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glphistory | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter for current rlPHISTORY tuple count.

### 1.2 Description:

The Glphistory global parameter contains an SM's current rlPHISTORY tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

Any changes to the calculation to determine the number of phistory tuples that are initialized must be kept consistent with the calculations in tm/TMpspoph/TMimphinit.c.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as ports are assigned. It will never be decreased.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

 /* RULE about Glphistory.values: */
```

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```
/* Glphistory is_in {0 thru (DBQNPHISTO - DBSFPHISTO)}; */
Glphistory is_in {0 thru (8191 - 0)};

end

/* RULE about Glphistory.values: */

function func() returning int
begin

        /* Initialize local variable */
        phistory = 0;

   if (Glconfigname == CNFG2K00 ) then
   begin
        phistory = 100 + (5/100 * (Glalinecnt + Glshanal +
                   Gldslcnt + Glmdslcnt + Gltrkcnt)) + Gliphistor;
   end
   else

/*  On SMs use the old formula for maximum number of trunks (480) */

   begin
        phistory = 480 + Gliphistor;
   end

        return phistory;


end

if (runucv) then
begin
if (current_pcr is_in sm_all) then
begin

        let PHISTORY = func();

        /* if (PHISTORY < (DBQNPHISTO - DBSFPHISTO)) then  */
        if (PHISTORY < (8191 - 0)) then
        begin
                Glphistory >= PHISTORY;
        end
        else
        begin
        /* Glphistory == DBQNPHISTO - DBSFPHISTO;  */
                Glphistory == 8191 - 0;
        end


end
end
```

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# Glpi_oper

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpi_oper | FP | DMbool |

### 1.1 Glpi_oper

Global Office Parameter Glpi_oper

### 1.2 Description:

This parameter indicates if both PIs (Packet Interfaces) are operational in CKTDATA. DBYES means that they are both operational and DBNO means that they are NOT both operational.

The population rules are as follows:

| PI0 eqstat | PI1 eqstat | Glpi_oper |
|---|---|---|
| SMOPER | SMOPER | DBYES |
| SMUNEQ | X | DBNO |
| SMGROW | X | DBNO |
| X | SMUNEQ | DBNO |
| X | SMGROW | DBNO |
| no PIs in CKTDATA (ie no ISDN) | | DBNO |

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Notice that if the SM does not have ISDN, Glpi_oper is DBNO. However, the value for a fully operational ISDN SM should be DBYES.

RC/V will be responsible for changing Glpi_oper to DBYES during PI growth (once both PIs are SMOPER), but maintenance will not be able to change Glpi_oper via RC/V. Maintenance may change it with ODBE, if necessary.

rc/v PI conversion rules:

When converting from a PI1 to PI2 or vice a versa, special rules apply to the setting of this parameter. When converting, the case of EQSTAT is changing from OPER to GROW and the PI TYPE is changing, Glpi_oper must retain the value of DBYES. The value must remain at DBYES to allow the other PI to remain working. Setting it to DBNO shuts down the PSU activity. Any other condition, the rules below apply.

***Retrofit Rules:*** not applicable

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***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glpi_oper.values: */

BCpi_oper:  if (current_pcr is_in sm_all) then
begin
if ( Glpi_oper == DBYES) then
begin
        /* This office is equipped with an operational Packet
         * Interface.  Check that both sides of PI are operational.
         */

        /*
         * Refer to the following poprules of RLcktdata:
         * RLcktdata (MCTSI Packet Interface Subunit) PCPI
         *
         * The circuit name for the PI in MCTSI-0 = 0x0029.
         * The circuit name for the PI in MCTSI-1 = 0x0049.
         */

        find == 1 sg0ckt in RLcktdata
        where( sg0ckt.name == 0x0029 )
        when_found
        begin
                find == 1 sg1ckt in RLcktdata
                where( sg1ckt.name == 0x0049 )
                when_found
                begin
                        combinations_of( sg0ckt.type, sg0ckt.eqstat, sg1ckt.type, sg1
ckt.eqstat)
                        begin
                                PCPI, SMOPER, PCPI, SMOPER;
                                PCPI2, {SMGROW, SMOPER}, PCPI, SMOPER;
                                PCPI, SMOPER, PCPI2, {SMGROW, SMOPER};
                                PCPI2, SMOPER, PCPI2, SMOPER;
                                PCPI, {SMGROW, SMOPER}, PCPI2, SMOPER;
                                PCPI2, SMOPER, PCPI, {SMGROW, SMOPER};
                        end
                end
        end
end

end
```

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# Glpic2

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpic2 | FR | DMbcarid |

### 1.1 Glpic2

Primary Intra-LATA-Toll Carrier Glpic2

***Defines:***
db/DMcarr_val.h, db/DMcarrid.h

### 1.2 Description

Specifies the carrier to be used to make Intra-LATA-Toll calls from lines which have not specified a primary carrier. It is a 4-digit CIC, padded to the left with zero's. The ICLATA SF (SFID 149) must be activated before a valid carrier other than default can be assigned.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10000

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***
On the RC/ODA form, $NULL_BCARID is mapped to unknown.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = $NULL_BCARID;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpic2.values: */

Glpic2 is_in {0 thru $FGDMAXBCAR, $NULL_BCARID};

/* RULE about Glpic2: */

if (Glpic2 is_in {0 thru $FGDMAXBCAR}) then
begin
```

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```
        /* macro for padding string "s" on the left with zeros,
         * up to length "n", eventually this should be replaced
         * by new prl5 builtin function "sprintf"
         */
        let leftzeropad(s, n) =
            concat(substr("00000000000000000000000000000000", 0, n-length(s)),
                   s);
        find == 1 fc_carr in RLfc_carr
        where (fc_carr.carrid == leftzeropad(itoa(Glpic2),
                $SZCARRID));
end
```

# Glpic3

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpic3 | FR | DMbcarid |

### 1.1 Glpic3

Primary International Carrier Glpic3

***Defines:*** db/DMcarr_val.h

### 1.2 Description

Specifies the carrier to be used to make International calls from lines which have not specified a primary carrier. It is a 4-digit CIC, padded to the left with zero's.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10000

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***
```
On the RC/ODA form, #NULL_BCARID is mapped to unknown.
On the RC/ODA form, #LECBCARID is mapped to 'LEC'.
fi
```

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = $NULL_BCARID;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpic3.values: */

Glpic3 is_in {0 thru $FGDMAXBCAR, $NULL_BCARID, $LECBCARID};

/* RULE about Glpic3: */

if (Glpic3 is_in {0 thru $FGDMAXBCAR}) then
begin
```

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```
        let str() = itoa(Glpic3);
        let len() = 4 - length(str());
        let carr() = (len() == 0) ? str() :
                        strcat(substr("0000", 0, len()), str());
        find == 1 fc_carr in RLfc_carr
        where (fc_carr.carrid == carr());
end
```

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# Glpic4

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpic4 | FR | DMbcarid |

### 1.1 Glpic4

Primary Intra-LATA-Local Carrier Glpic4

***Defines:***
db/DMcarr_val.h

### 1.2 Description

Specifies the carrier to be used to make Intra-LATA-Local calls from lines which have not specified a primary carrier. It is a 4-digit CIC, padded to the left with zero's.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10000

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***
```
On the RC/ODA form, #NULL_BCARID is mapped to unknown.
On the RC/ODA form, #LECBCARID is mapped to 'LEC'.
```

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = $NULL_BCARID;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpic4.values: */

Glpic4 is_in {0 thru $FGDMAXBCAR, $NULL_BCARID, $LECBCARID};

/* RULE about Glpic4: */
if (Glpic4 is_in {0 thru $FGDMAXBCAR}) then
begin
        let str() = itoa(Glpic4);
```

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```
        let len() = 4 - length(str());
        let carr() = (len() == 0) ? str() :
                        strcat(substr("0000", 0, len()), str());
        find == 1 fc_carr in RLfc_carr
        where (fc_carr.carrid == carr());
end
```

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# Glpispm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpispm | LRFR | DMmodule |

### 1.1 Glpispm

Global Office Parameter Glpispm

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Inter-SM Packet Data Base Manager.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpispm.values: */
        /* no check */ ;
```

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# Glpiw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpiw | LRFR | DMmodule |

### 1.1 Glpiw

Global Office Parameter Glpiw

### 1.2 Description

All of the above Glp... parameters have the default value and only the default value except for the following:

| | GlCCS=NO GlDLN=NO | GlCCS=YES GlDLN=NO | GlCCS=YES GlDLN=YES |
|---|---|---|---|
| Glpccslk | 0 | 0 | 245 |
| Glpccs | 0 | 0 | 0 |

For export these 2 parameters are equal to parameter Glglobalsm.

Glpgcrtg and Glpgprtg must always be equal.

Glpgdbm and Glprcmap must always be equal.

Recent Change/Verify (RC/V) Default: NA

ODA Default: as stated above

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glpiw.values: */
        /* no check */ ;
```

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# Glpktds

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpktds | FP | DMlong |

### 1.1 Glpktds

Global Office Parameter Glpktds

### 1.2 Description

This global parameter is used to enable/disable the reporting mechanism for discarded PI and PH packets. The craft will be able to selectively allow the asserts PSPIDISCARD and PSPHDISCARD by setting the global parameter according to the table shown below.

Recent Change/Verify (RC/V) default: N/A

| Office Parameter Value | Office Parameter Bit Fields | Conditions for allowing the assert |
|---|---|---|
| 0 | 0000 | Always disallowed |
| 1 | 0001 | Always disallowed |
| 2 | 0010 | Always disallowed |
| 3 | 0011 | Always disallowed |
| 4 | 0100 | PH discarded frames when not in timer recovery or peer busy |
| 5 | 0101 | PH discarded frames including timer recovery |
| 6 | 0110 | PH discarded frames including peer busy |
| 7 | 0111 | all PH discarded frames |
| 8 | 1000 | PI discarded frames when not in timer recovery or peer busy |
| 9 | 1001 | PI discarded frames including timer recovery |
| 10 | 1010 | PI discarded frames including peer busy |
| 11 | 1011 | all PI discarded frames |
| 12 | 1100 | PH or PI discarded frames |

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```
|            | when not in timer recovery r peer busy              |
|-------------------------------------------------------------------|
|    13     |   1101     | PH or PI discarded frames                |
|           |            | including timer recovery                 |
|-------------------------------------------------------------------|
|    14     |   1110     | PH or PI discarded frames                |
|           |            | including peer busy                      |
|-------------------------------------------------------------------|
|    15     |   1111     | all PH or PI discarded frames            |
---------------------------------------------------------------------
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glpktds.values: */

        /* no check */ ;
```

# Glpli_map

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpli_map | FP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glpli_map

### 1.2 Description:

This parameter (along with Glpli1_map) contains a bit-map of logical Peripheral Control and Timing (PCT) links equipped in an SM. PCT links may only be equipped in an SM-2000. This logical PCT link number is spread across all the PCT based peripherals in the SM. Also see the global parameter Glpli1_map which handles PCT link numbers in the range of 32 through 63.

For SMs, this parameter will always be populated with 0, since there are no RLlnk_use tuples in SMs.

***Type:*** DBLONGPAR

***ODBE Access:*** ---

***DBGEN:*** ---

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** None.

***Retrofit Rules:*** This value should remain intact during a Selective Init Generic Retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
cktdefs.R
```

***Checks:***
```
function func() returning int
begin
        xmap = 0;
        for lnk_use in RLlnk_use
```

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```
        where ((lnk_use.use == TS_PLI) && (lnk_use.index is_in {0 thru 31}))
        begin
                tmp = lnk_use.index;
                xmap{tmp} = 1;
        end

        return xmap;
end

/* RULE about Glpli_map: */
if (current_pcr is_in sm_all) then
begin
        if (SM2000(current_pcr)) then
        begin
                Glpli_map == func();
                /*
                 * Any value between 0 and 31 of
                 * PLI entries in the bitmap is
                 * acceptable here so no range
                 * check since Glsmpctmax > 32
                 */
        end else begin
                Glpli_map == 0;
        end

end
```

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# Glpli1_map

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpli1_map | FP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glpli1_map

### 1.2 Description:

This parameter (along with Glpli_map) contains a bit-map of logical Peripheral Control and Timing (PCT) links equipped in an SM. PCT links may only be equipped in an SM-2000. This logical PCT link number is spread across all the PCT based peripherals in the SM. Also see the global parameter Glpli_map which handles PCT link numbers in the range of 0 through 31.

For SMs, this parameter will always be populated with 0, since there are no RLlnk_use tuples in SMs.

***Type:*** DBLONGPAR

***ODBE Access:*** ---

***DBGEN:*** ---

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** None.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
cktdefs.R
```

***Checks:***
```
function func() returning int
begin
        xmap = 0;
        for lnk_use in RLlnk_use
```

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```
        where ((lnk_use.use == TS_PLI) && (lnk_use.index is_in {32 thru (Glsmpctmax-1
)}))
        begin
                tmp = (lnk_use.index-32);
                xmap{tmp} = 1;
        end

        return xmap;
end

if (current_pcr is_in sm_all) then
begin
        if (SM2000(current_pcr)) then
        begin
                Glpli1_map == func();

                /* Bit positions 32 thru 35 of (Glsmpctmax = 36) */
                Glpli1_map is_in {0 thru 0x0000000f};
        end else begin
                Glpli1_map == 0;
        end


end
```

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# Glplitim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glplitim | FP | DMshort |

### 1.1 Fullname:

CAS Purchase Limit intermediate time interval parameter.

### 1.2 Description:

This parameter shall be used to specify the Purchase Limit intermediate time interval in increments of 30 seconds, with a range of 30 seconds to 20 minutes. Gl_pcrid.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 600;
```

***Distribution Rules:***
```
        /* This global is really group partitioned, but FG cannot   */
        /* be specified for global parameters, so FP is specified. */
        /* here. The group partitioning should be:                  */
        /*      RLdb_gpdus.grp_type = GPD_OSPS                      */
        /*      RLdb_gpdus.grp_id = 4                               */
        pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
env.R,
PLgpd_defs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glplitim.values: */
```

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```
Glplitim is_in {0,30 thru 1200};

/* RULE about Glplitim: */
begin
let bool = (count { db_gpdus in RLdb_gpdus
where (db_gpdus.grp_type == GPD_OSPS &&
    db_gpdus.grp_id == 4 &&
    db_gpdus.module == Gl_pcrid)} == 1);
if (bool == false) then
begin
        Glplitim == 0;
end
else
begin
        if (runucv) then
        Glplitim != 0;

        /* Glplitim must be a multiple of 30 */
        Glplitim%30 == 0;
end
end

end
```

# Glplon

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glplon | FP | DMbool |

### 1.1 Glplon

CAS Purchase Limit (PL) feature activation parameter.

### 1.2 Description

This parameter shall be used to activate/deactivate the Purchase Limit feature. DBYES indicates the feature is activated, DBNO indicates the feature is not activated. This feature will not be activated unless the global parameter GLIVION is turned on.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot  */
/* be specified for global parameters, so FP is specified */
/* here. The group partitioning should be:                 */
/*      RLdb_gpdus.grp_type = GPD_OSPS                     */
/*      RLdb_gpdus.grp_id = 4                              */
  pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
let pcrlist = get_gpd_pcrlist (GPD_OSPS,3);

if (current_pcr is_in sm_all) then
begin
```

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```
/* RULE about Glplon.values: */

        /* no check */ ;

/* RULE about Glplon: */

/* There shall be a crosscheck to ensure that Glivion is DBYES */
/*  before this feature is activated                            */
oda_lv2:        if (Glplon == DBYES) then
                begin
                        if (pcrlist[current_pcr]) then
                        begin
                                Glivion == DBYES;
                        end
                end

end
```

# Glpls_wdth

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpls_wdth | FP | DMuchar |

### 1.1 Glpls_wdth

Global Office Parameter Glpls_wdth

### 1.2 Description

This parameter give the length of a dial pulse in 10ms intervals. The dial pulse/pause sequence will always be 100ms so the pulse/pause ratio may be calculated by knowing the pulse length. The range is 1 - 9. The RCV support is none. Used by Export.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1

***AM Initial Value:*** 1

***CMP Initial Value:*** 1

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
   /* RULE about Glpls_wdth.values: */
   Glpls_wdth is_in {1 thru 9};
end
```

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# Glpmdnumx

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpmdnumx | FP | DMshort |

### 1.1 Glpmdnumx

Global Office Parameter Glpmdnumx

### 1.2 Description

This parameter contains the number of performance monitoring groups that are defined for digital networking unit-SONET (DNU-S)s facilities in an SM. DNU-S facilities may only be equipped in an SM-2000.

***Type:*** DBSHORTPAR

***ODBE Access:*** ---

***DBGEN:*** ---

***Classification:*** ---

***IOTYPE:*** ---

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***
/* none */

***Retrofit Rules:***
None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
/* RULE about Glpmdnumx: */
/*
 * There is one tuple in RLpmfacgrp for each performance
 * monitoring group. Only count the groups associated with
 * DNU-S facilities.
 */
let cnt = count { pmfacgrp in RLpmfacgrp
```

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```
                  where (pmfacgrp.ckttype is_in { PCSTEFAC, PCVT1FAC, PCDS1SFAC } ) }
;
Glpmdnumx is_in { 0 thru 50 };
/* There is a max of 50 DNU-S PM groups per SM-2000 */
Glpmdnumx is_in { 0 thru 50 };
end
```

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# Glpmem_sze

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpmem_sze | LPFP | DMlong |

### 1.1 Glpmem_sze

Global Office Parameter Glpmem_sze

**Defines:**
db/DMclidef.h

### 1.2 Description:

For the CMP and the SM-2000 (SMP2000), the highest addressable memory. For other SMs (SMP12, SMP20, MCTU3, SMP23), the amount of physical memory. Glpmem_sze is stated in units of 1K bytes (that is 1024 bytes). Note that megabytes (MB) are used in the following discussion, where 1 MB is 1024 K bytes.

For the CMP with Glconfigname=CNFG002 the Glpmem_sze is fixed to 868,352 KB. The actual memory size is 20 MB. For VCDX switches where there is no CMP hardware but a process, CMPKP, the Glpmem_sze is fixed to 1904 KB, the size of the ODD for the "CMP".

For the AM this parameter is defined but not used and therefore Glpmem_sze=0 for this case. The ECD contains the AM memory equipage information.

5E10(1) & LATER SM PROCESSOR EQUIPAGE

| SM PROCESSOR | MOTOROLA PROCESSOR (Note 1) | MEMORY BOARD (Note 2) | MAX.SLOTS | MAX EQUIPAGE [MEGABYTES] (Note 3) |
|---|---|---|---|---|
| SMP12 | 68012 | TN56 | 5+7 | 24* |
| | | TN2012 | 5+3 | 32* |
| SMP23 | 68020 | TN56 | 5+7 | 24* |
| | | TN2012 | 5+3 | 32* |
| SMP23CDM | 68020 | - | 0 | 32 |
| SMP23CDMX | 68020 | TN2012 | 5 | 52 |
| SMP20/ SMP20DC | 68020 | TN1374 | 6 | 24 |
| | | TN1376 | 6 | 48 |
| | | TN1661 | 6 | 96 |
| MCTU3 | 68040 | - | 0 | 96 |
| SM-2000 | 68040 | TN1685 | 4 | 128 |
| | | TN1806 | 4 | 256 |
| | 68060 | TN1685 | 4 | 192 |
| | | TN1806 | 4 | 320 |
| SM2005 | 68060 | TN1685 | 2 | 192 |
| | | TN1806 | 2 | 256 |

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```
 ======================================================================
NOTES:
1. Processor addressability limits are defined by the microprocessor used
   and the SMP architecture.  For the 68012 the maximum addressability is
   32MB which can be reached using an MEU.  For the rest of the shown
   processors the addressability is limited by memory on the core board
   (if supported), and the number and size of external memory boards which
   can be supported on the specific architecture.
2. TN56=2MB, TN2012=4MB, TN1374=4MB, TN1376=8MB, TN1661=16MB, TN1685=32MB
   and TN1806=64MB.  TN1374, TN1376, and TN1661 boards may be mixed in the
   same MCTU2.  The SM-2000 also supports memory board mixing, but pack type
   usage is limited to the associated unit (as shown in the processor equipage
   chart).  The SMP23CDM and SMP23CDMX provide 32 megabytes of on-board
   memory; the SMP23CDM does not support external memory boards, the SMP23CDMX
   supports zero to five TN2012 external memory boards.
3. Maximum equipage (*) requires use of the Memory Expansion Unit (MEU). The
   SM-2000 equipped with a CORE60 (68060 processor) comes with 64MB of
   on-board memory.  Two memory configurations are available with CORE60MM,
   64MB or 128MB of on-board memory; the 128MB version is limited to use with
   SM2005 unit type.

        The following algorithms can be used to determine the value of this
        parameter.

        If the unittype = SMPU4, SMSM2000(for SM-2000), and SMSM2005(for
        SM2005) then set up 2 counts SIDE0 and SIDE1.

        Note that SM-2000 defines a class of SMs, which is comprised of
        SM-2000(SMSM2000) and SM2005(SMSM2005).

        The SMxxxx without a "dash" is an "altval" used by RCV and ODA.

        The (SMSMxxxx) defines the SM's unittype.

        Also note that the use of the SM-2000 and SM2000 names throughout
        the prl files has not been used consistently, and therefore may be
        used in such a way that does not
        ------------------------------------------------------------------------
        1. Set SIDE0 and SIDE1 to 0.

        for every tuple in RLcktdata

        begin
        if ((RLcktdata.eqstat == SMOPER) &&
            (RLcktdata.type == PC_MP) &&
            (RLcktdata.utype is_in {SMSM2000, SMSM2005})
            ((RLcktdata.cli & $DGMCORMEM) == $DGVCOR64MB)) {
                if (RLcktdata.name == 0x21) then
                {
                    SIDE0 = SIDE0 + 64;
                } else if (RLcktdata.name == 0x41) then
                {
                    SIDE1 = SIDE1 + 64; }
        }
```

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```
if ((RLcktdata.eqstat == SMOPER) &&
    (RLcktdata.type == PC_MP) &&
    (RLcktdata.utype == SMSM2005)
    ((RLcktdata.cli & $DGMCORMEM) == $DGVCOR128MB)) {
        if (RLcktdata.name == 0x21) then {
            SIDE0 = SIDE0 + 128;
        } else if (RLcktdata.name == 0x41) then
        {
            SIDE1 = SIDE1 + 128;
}

}if ((RLcktdata.eqstat == SMOPER)&& (RLcktdata.type == PCMEMBD))
{

       if (RLcktdata.name >= 0x30 and RLcktdata.name <= 0x35) then
       {
              if (RLcktdata.utype == SMSMP20) then
              {
                   if RLcktdata.cli = 0x20000 then SIDE0 = SIDE0 + 16;
                   if RLcktdata.cli = 0x4000 then SIDE0 = SIDE0 + 8;
                   if RLcktdata.cli = 0x200 then SIDE0 = SIDE0 + 4;
              }

             if (RLcktdata.utype == SMSM2000 and RLcktdata.name <= 0x33) then
             {
                  if RLcktdata.cli = 0x2 then SIDE0 = SIDE0 + 32;
                  if RLcktdata.cli = 0x4 then SIDE0 = SIDE0 + 64;
             }

             if (RLcktdata.utype == SMSM2005 and RLcktdata.name <= 0x31) then
             {

                  if RLcktdata.cli = 0x2 then SIDE0 = SIDE0 + 32;
                  if RLcktdata.cli = 0x4 then SIDE0 = SIDE0 + 64; }
             }
      else if (RLcktdata.name >= 0x50 and RLcktdata.name <= 0x55) then
      {
              if (RLcktdata.utype == SMSMP20) then
              {
                   if RLcktdata.cli = 0x20000 then SIDE1 = SIDE1 + 16;
                   if RLcktdata.cli = 0x4000 then SIDE1 = SIDE1 + 8;
                   if RLcktdata.cli = 0x200 then SIDE1 = SIDE1 + 4; }
             if (RLcktdata.utype == SMSM2000 and RLcktdata.name <= 0x53) then
            {
                 if RLcktdata.cli = 0x2 then SIDE1 = SIDE1 + 32;
                 if RLcktdata.cli = 0x4 then SIDE1 = SIDE1 + 64;
             }

             {
                 if RLcktdata.cli = 0x2 then SIDE1 = SIDE1 + 32;
                 if RLcktdata.cli = 0x4 then SIDE1 = SIDE1 + 64;
             }
     }
```

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```
      end

      2. If ( SIDE0 < SIDE1 ) then
              Glpmem_sze = 1024 * SIDE0;
         else
              Glpmem_sze = 1024 * SIDE1;
      3. If RLcktdata.utype = SMSM2000 or SMSM2005 then
              Glpmem_sze = Glpmem_sze + 16384;


      If the unittype = SMMCTU3
      -------------------------

      1. Set Side 0 and Side 1 to 0
         for every tuple in RLcktdata
         begin
                 if ((RLcktdata.eqstat == SMOPER) &&
                     (RLcktdata.type == PC_MP) &&
                     (RLcktdata.utype == SMMCTU3) {
                         if (RLcktdata.name == 0x21) then
                         {
                             select (RLcktdata.cli & 0xc0000)
                             begin
                             when (0xc0000): SIDE0 = 96;      /* 96 Mb */
                             when (0x80000): SIDE0 = 64;      /* 64 Mb */
                             when (0x40000): SIDE0 = 32;      /* 32 Mb */
                             end
                         } else if (RLcktdata.name == 0x41) then
                         {
                             select (RLcktdata.cli & 0xc0000)
                             begin
                             when (0xc0000): SIDE1 = 96;      /* 96 Mb */
                             when (0x80000): SIDE1 = 64;      /* 64 Mb */
                             when (0x40000): SIDE1 = 32;      /* 32 Mb */
                             end
                         }
                }
         end
      2. if (SIDE0 < SIDE1) then
               Glpmem_sze = 1024 * SIDE0
         else
               Glpmem_sze = 1024 * SIDE1

/*
 *      If the unittype is an:
 *      SMPU2
 *      SMPU3
 *      the memory calculation is based on the following:
 *
 *      1) Assume both SIDE0 and SIDE1 start with no memory.
 *      2) for all of the tuples in RLcktdata check
 *         each side of the MCTSI for:
 *         a) eqstat is SMOPER
 *         b) unittype is SMCRIMPU or SMIMPU3
```

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```
*          c) check attribute type
*             - if type is PC_MP
*                + add appropriate amount of core board memory to
*                  side being worked on.  This is determined by the
*                  CLI value:
*                    -> ADD 32MB for SMP23CDM*, if necessary CLI bis set:
*                       (DGVSMP23 | DGVSMP12 | DGV32MEGMEM)
*
*             - if type is PCMEMBD
*                + add appropriate amount of memory to side being
*                  worked on.  This is determined by the CLI value
*                  for each valid memory board (see chart in beginning
*                  of this file for maximum memory board numbers on
*                  each processor type:
*                    -> ADD 4MB for DGV4MEGMEM CLI values.
*                    -> ADD 2MB for DGV2MEGMEM CLI values.
*
*       3) Determine which side of the processor has the smaller amount
*          of memory.  Use that side's value and multiply it by 1024 to
*          set Glpmem_sze for that processor.
*
*/
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** When converting an SMP from a CORE40 to a CORE60 with on board memory, RC/V will add 65536 KB to Glpmem_sze value; it represents 64*1024 Kbytes memory existent on CORE60 board.

When growing a new SM in 5e10(1) and up with SMP CORE60 with on board memory, RC/V will use the following formula for calculating the value of Glpmem_sze:

(amount of equipped memory in Kbytes) + 16384 Kbytes + 65536 Kbytes

For a new office which gets an SMP CORE60 with on board memory, ODA will use the following formula will be used for calculating the value of Glpmem_sze:

(amount of equipped memory in Kbytes) + 16384 Kbytes + 65536 Kbytes

***Retrofit Rules:*** not applicable

***Default Rules:***

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```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Import:***

```
chk_apperm.R
```

***Checks:***

```
/* RULE about Glpmem_sze.values: */

/* This section checks that the memory size is not larger than the
 * addressability of the processor.
 */

if ( current_pcr is_in {1 thru 192} ) then
begin
        find == 1 modatt in RLmodatt
        where (modatt.module == current_pcr)
        when_found
        begin
                /* Select construct is used to allow for future SMP types.
                 * Note:  This expression evaluates to "false" if the
                 * unittype is not listed or is invalid.
                 */
                select (modatt.unittype)
                begin
                        when ({SMCRIMPU,SMIMPU3}):
                        begin
                                /* Check the processor CLI information
                                 * and if both sides are a SMP23CDMX,
                                 * set max memory to 52MB.  The other
                                 * processors have max memory of 32MB.
                                 */

                                if ( ((modatt.mctsi0_cli & 0x2440400) == 0x2440400) &
&
                                     ((modatt.mctsi1_cli & 0x2440400) == 0x2440400)
 ) then
                                begin
                                        Glpmem_sze <= 53248;
                                end
                                else
                                begin
                                        Glpmem_sze <= 32768;
                                end
                        end
                        when (SMSMP20): Glpmem_sze <= 98304;
                        when (SMMCTU3): Glpmem_sze <= 98304;

                        /* For the SM-2000, the maximum Glpmem_sze is
                         * limited by the software support; depending
```

```
                        * on the hardware available, there may be no
                        * valid configuration that reaches this number.
                        */
                       when ({SMSM2000,SMSM2005}):Glpmem_sze <=344064;
                end
        end
end

/* In the VCDX switch the CMP ODD should be fixed at 1904 KB. */
if ((current_pcr == 194) && (c_aperm(PVMSKVCDX,CONFIGMAX) == true)) then
begin
        Glpmem_sze == 1904;
end
```

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# Glpmint

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpmint | LRFR | DMuchar |

### 1.1 Glpmint

Global Office Parameter Glpmint

### 1.2 Description

This office parameter is used to specify the interval at which layer 1 performance monitoring reports are automatically generated. This control is to be on the entire office basis. Its initial (default) value is to be 1 hour and is to be recent change updatable on an office basis. This parameter should be populated with the same value in the AM and in all SMs.

***Type :*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1

***AM Initial Value:*** 1

***CMP Initial Value:*** 1

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 1;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpmint.values: */
Glpmint is_in {1, 2, 3, 4, 6, 8, 12, 24};
```

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# Glpmlog

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpmlog | LRFR | DMmodule |

### 1.1 Glpmlog

Global Office Parameter Glpmlog

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Global Output Message Logging.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpmlog.values: */
        /* no check */ ;
```

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# Glpmmax

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpmmax | LR | DMushort |

### 1.1 Glpmmax

Global Office Parameter Glpmmax

### 1.2 Description

This office parameter is used to limit the number of Layer 1 Performance Monitoring threshold groups. The maximum number of groups is 65535 but for time and ODD space reasons this parameter will limit the number of PM threshold groups. If the allowed number of groups is exhausted this parameter can be increased to allow for more groups. The penalty for increasing the number of groups is that more ODD memory is needed and it will take PM refresh longer to update each ISLU/IDCU with PM thresholds.

This parameter is only to be set by ODA if the parameter is not previously defined. If previously defined ODA is not to change the value.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 256

***CMP Initial Value:*** 256

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 256;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpmmax.values: */
Glpmmax is_in {0 thru 65535};
```

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# Glpmph

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpmph | LRFR | DMmodule |

### 1.1 Glpmph

Global Office Parameter Glpmph

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Metallic Path Hunt.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 194

***AM Initial Value:*** 194

***CMP Initial Value:*** 194

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 194;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpmph.values: */
        /* no check */ ;
```

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# Glpmptm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpmptm | LRFR | DMmodule |

### 1.1 Glpmptm

Global Office Parameter Glpmptm

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Modem Pool Terminal Maintenance.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpmptm.values: */
        /* no check */ ;
```

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# Glpmrat

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpmrat | FR | DMuchar |

### 1.1 Glpmrat

Global Office Parameter Glpmrat

### 1.2 Description

This global office parameter specifies the number of cyclic redundancy code (CRC) errors, also known as block errors, that are allowed before a severely errored second (SES) is incremented in an ANSI(R) Standard U-card. This value is to be initially set to 3 and is to be recent change updatable. It is defaulted to 3 because the current BRITE CUs are set at 3 and would require a hardware change to alter the value. This office parameter is to be populated in all SMs. The value in all SMs should always be the same.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 3

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 3;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpmrat.values: */
Glpmrat is_in {1 thru 255};
```

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# Glpmsgd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpmsgd | LRFR | DMmodule |

### 1.1 Glpmsgd

Global Office Parameter Glpmsgd

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Global Message Distribution .

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpmsgd.values: */
        /* no check */ ;
```

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# Glpmtim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpmtim | LRFR | DMuchar |

### 1.1 Glpmtim

Global Office Parameter Glpmtim

### 1.2 Description

This office parameter is used to specify the hour at which ALE and performance monitoring reports will be generated daily. This control is to be on the entire office basis. Its initial (default) value is to be 0 (zero) and is to be recent change updatable on an office basis. The number indicates at which hour of the day the daily reports are to be generated. A 0 (zero) indicates 12 midnite and 23 indicates 11 pm. On ODD updates the value should not be altered. For DFI, IDCU, and DNU-S, This field specifies the start hour for the 24-hour collection interval. This parameter should be populated with the same value in the AM and in all SMs.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpmtim.values: */
Glpmtim is_in {0 thru 23};
```

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# Glpoddlog

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpoddlog | LRFR | DMmodule |

### 1.1 Glpoddlog

Global Office Parameter Glpoddlog

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Global ODD Logging .

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpoddlog.values: */
        /* no check */ ;
```

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# Glpoffloss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpoffloss | FR | DMbool |

### 1.1 Glpoffloss

Global Office Parameter Glpoffloss

### 1.2 Description

Indicates if PC needs to insert 2db digital loss on all line calls or not. Boolean variable. Should be in all IMs and must have some value throughout the office. Default value must be DBNO, that is, 0db loss for all line calls. If it is set to DBYES by craft using Recent Change/Verify (RC/V), PC should insert 2db digital loss on all line calls.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpoffloss.values: */
Glpoffloss is_in {DBNO, DBYES};
```

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# Glposmn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glposmn | FP | DMushort |

### 1.1 Glposmn

Global Office Parameter Glposmn

### 1.2 Description

Lowest (minimum) operator position number served by the IBM(R) DAS.

The OSPS Port to IBM(R) position ID mapping allows the OSPS owner to obtain IBM(R) position ID's for each of the OSPS operator ports (positions) associated with the IBM(R) Directory Assistance System(s) (DAS) working in conjunction with an OSPS.

This parameter and Glposrn are specified to produce the required mapping. Glposmn assigns the minimum OSPS position number and Glposrn assigns the range of sequential positions from the minimum position, that may interface with the IBM(R) DAS.

For example, when OSPS position numbers in the range of 500 to 1499 are planned to interface with an IBM(R) DAS (RLpos_port.posnum is in {500, 1499}), Glposmn is set to 500 and Glposrn is set to 1000. Not all the positions within this range are required to interface with the IBM(R) DAS. Only OSPS operator position ID's where RLpos_port.pos_typ equals OA_VDT are converted to IBM(R) position ID's. However, all current and future positions which provide services via the IBM(R) DAS must fall within these bounds. If the Glposmn number or Glposrn is later changed, all IBM(R) position ID's associated with ARU ports will need to be reassigned in the IBM(R) DAS; therefore, room for operator position growth should be considered when assigning these values.

If the OSPS owner wishes to start the sequence at OSPS position number 1, this value can be set to zero to make the OSPS position number and IBM(R) position ID equal; this only wastes the first IBM(R) position ID (ID = 0), as OSPS has no position number zero. Alternately, this parameter can be set to one, which makes the IBM(R) position ID one less than the corresponding OSPS position number.

The IBM(R) position ID = RLpos_port.posnum - Glposmn.

Glposmn + Glposrn must be less than 4097.

If Glposrn is zero (no value entered by the customer), then Glposmn must be zero.

Prior to 5E6(2), this global must always equal the default.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

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***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glposmn.values: */
Glposmn is_in {0 thru 4095};
end
```

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# Glposrn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glposrn | FP | DMushort |

### 1.1 Glposrn

Global Office Parameter Glposrn

### 1.2 Description

Number of operator position numbers set aside to serve the IBM(R) DAS.

See comments for global Glposmn.

The sum of all the RANGES for positions and trunk groups may not exceed 9000. This is an IBM(R) system limit. Note that the 9000 range must be potentially shared with other switching systems that use a given IBM(R) DAS. Therefore, ODA (not RC) should give a warning when the sum of all ranges exceeds 4500, indicating that over half the available array in the IBM(R) DAS has been allocated for this office alone, and reassessment may be required if other offices share an IBM(R) DAS. This warning should also appear in the RC documentation.

Zero is not allowed on the RC/ODA form. It is used when there is no customer entered data for this global.

Glposmn + Glposrn must be less than 4097.

Glposrn + Gltg0rn + Gltg1rn + Gltg2rn + Gltg3rn + Gltg4rn + Gltg5rn + Gltg6rn + Gltg7rn must be less than 9001.

Glposrn + Gltg0rn + Gltg1rn + Gltg2rn + Gltg3rn + Gltg4rn + Gltg5rn + Gltg6rn + Gltg7rn SHOULD be less than 4501, else ODA warning.

RC and ODA must also enforce the poprules for Glposrn given in RLeisdsl. Poprules for when Glposrn cannot be zero are given in RLeisdsl so that there is an order of growth defined for RC.

If Glposrn is not zero, then Gltg0rn + Gltg1rn + Gltg2rn + Gltg3rn + Gltg4rn + Gltg5rn + Gltg6rn + Gltg7rn must be greater than zero (at least one of these global parameters must not be zero).

Prior to 5E6(2), this global must always equal the default.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

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***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
   /* RULE about Glposrn.values: */
   Glposrn is_in {0 thru 4096};
end
```

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# Glpotent

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpotent | LRFR | DMplusmin |

### 1.1 Glpotent

Global Office Parameter Glpotent

### 1.2 Description

Office potential. Offices with reverse-polarity pay phones should have Glpotent set equal to FCPLUS. Offices with ordinary pay phones should have Glpotent set equal to FCMINUS.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** FCMINUS

***AM Initial Value:*** FCMINUS

***CMP Initial Value:*** FCMINUS

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glpotent.values: */
        /* no check */ ;
```

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# Glppidle

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glppidle | FR | DMuchar |

### 1.1 Glppidle

Packet Pipe IDLE timer

### 1.2 Description

This parameter indicates the time without flags before going IDLE CHANNEL. This timer is needed by Packet Pipe (PP). The unit of this timer is in seconds.

***Type:*** DBCHARPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***
This parameter will not be supported by RC/V.

***Retrofit Rules:***
Not applicable.

***Default Rules:***
```
oda_default = 4;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
Glppidle is_in {1 thru 30};
```

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# Glppocerr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glppocerr | FR | DMppocer |

### 1.1 Glppocerr

Error handling for Pre-paid Overtime for Coin

### 1.2 Description

This parameter is used for the pre-paid Overtime for coin feature. This parameter is the treatment to be given to coin calls when PPOC is active and a rating failure occurs. Currently, the default value is STD, which means to revert to standard post-paid coin operation. The alternative is OPR, which means to route to an operator when a rating failure occurs.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** PPSTD

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:***
When retrofitting from 5e9_1 or 5e9_2 to 5e10: Bit 4 of Gloff2 must be copied to this global.

***Default Rules:***
```
default = PPSTD;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glppocerr.values: */
        /* no checks */
```

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# Glppsa

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glppsa | LRFR | DMmodule |

### 1.1 Glppsa

Global Office Parameter Glppsa

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Global Port Status Administration.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glppsa.values: */
        /* no check */ ;
```

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# Glppump

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glppump | LRFR | DMmodule |

### 1.1 Glppump

Global Office Parameter Glppump

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Global Pump .

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glppump.values: */
        /* no check */ ;
```

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# Glprcdata

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glprcdata | LRFR | DMmodule |

### 1.1 Glprcdata

Global Office Parameter Glprcdata

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is RC Data Memory .

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glprcdata.values: */
        /* no check */ ;
```

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# Glprcmap

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glprcmap | LRFR | DMmodule |

### 1.1 Glprcmap

Global Office Parameter Glprcmap

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is RC Mapping .
Glpgdbm and Glprcmap must always be equal.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 194

***AM Initial Value:*** 194

***CMP Initial Value:*** 194

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 194;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glprcmap.values: */
        /* no check */ ;
```

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# Glprdta

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glprdta | LRFR | DMmodule |

### 1.1 Glprdta

Global Office Parameter Glprdta

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Remote Digital Test Access Applications.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glprdta.values: */
        /* no check */ ;
```

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# Glpri_cnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpri_cnt | FP | DMushort |

### 1.1 Fullname:

Primary Rate Interface Count

### 1.2 Description:

The Glpri_cnt global parameter contains an SM's count of PRI D channels and OSPS D channels. Its value is maintained over all initializations and updated via RC as PRIs are inserted or deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by RC and ODA. The value of this parameter is established by ODA and will be updated by RC as PRI or OSPS D channels are inserted or deleted. Its value can increase and decrease.

***Retrofit-ODA Rules:*** Not applicable

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glpri_cnt.values: */

if (current_pcr is_in sm_all) then
begin


/* RULE about Glpri_cnt: */
```

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```
        Glpri_cnt == count { dchnpri in RLdchnpri } +
                     count { edsldchn in RLedsldchn };

end
```

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# Glpri_dcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpri_dcnt | FP | DMushort |

### 1.1 Fullname:

Count of National (standard) and custom PRI D-Channels on an SM

### 1.2 Description:

This global parameter is an SM's count of National (standard) and custom PRI D-Channels. Its value is maintained over all initializations and updated via RC as D-Channels are assigned or deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** TMi_trig,

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter is supported by RC and ODA. It is established by ODA and will be updated by RC as PRI are inserted or deleted. Its value can increase and decrease. Glpri_dcnt does not shown in any view or ODA form.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

        /* RULE about Glpri_dcnt: */

         Glpri_dcnt ==  count { dchnpri in RLdchnpri };

end
```

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# Glpri_priv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpri_priv | FR | DMbool |

### 1.1 Glpri_priv

Global Office Parameter Glpri_priv

### 1.2 Description

This parameter is used to indicate whether or not the switch will deliver private DNs to PRIs. If the parameter is set to DBYES, the switch will deliver private calling DNs to a PRI along with a presentation indicator set to 'restricted'. If this parameter is set to DBNO, the switch will not deliver private calling DNs to a PRI where DN privacy may not be guaranteed by the PBX.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpri_priv.values: */
Glpri_priv is_in {DBNO, DBYES};
```

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# Glpribcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpribcnt | FP | DMushort |

### 1.1 Fullname:

Count of standard and custom PRI B-Channels on an SM

### 1.2 Description:

This global parameter is an SM's count of standard and custom PRI B-Channels. Its value is maintained over all initialization and updated via RC as B-Channels are assigned or deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** TMi_trig,

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by RC and ODA. It is established by ODA and will be updated by RC as PRI are inserted or deleted. Its value can increase and decrease.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R,
AVextern.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glpribcnt.values: */
  Glpribcnt is_in {0 thru AVSMPRIBCH_PAM()};
```

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```
/* RULE about Glpribcnt: */

         if (runucv) then
         Glpribcnt == sum RLprigrp.num_bchans;

         find == 1 modatt in RLmodatt
         where (modatt.module == current_pcr)
         when_found
         begin
                if (modatt.unittype is_in {SMSM2000, SMSM2005}) then
                begin
                        Glpribcnt <= AVSMPRIBCH_ASM2K();
                end
                else
                begin
                        Glpribcnt <= AVSMPRIBCH_ASM();
                end
        end
end
```

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# Glpridest

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpridest | FP | DMbool |

### 1.1 Glpridest

Global Office Parameter Glpridest

### 1.2 Description

This parameter determines whether the priority destination feature (30-01-0213) is active in the office. It is a country dependency and the parameter will be set according to the country in which the office is installed. It must not be recent changeable. The RCV support is none. Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
/* RULE about Glpridest.values: */
Glpridest is_in {DBNO, DBYES};
end
```

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# Glprimalg

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glprimalg | LP | DMsrv_typ |

### 1.1 Glprimalg

Prim_vol_algm

### 1.2 Description

The primalg global parameter will identify the primary voice encoding algorithm for CDMA/TDMA channel groups.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ---

***AM Initial Value:*** DBEVRC

***CMP Initial Value:*** DBEVRC

***RC/ODA Rules:***
This global parameter is supported by RC, but is not supported by ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBEVRC;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glprimalg.values: */
Glprimalg on am is_in { DB8K, DB13K, DBEVRC, DBACELP, DBVSELP };
```

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# Glprmsd3

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glprmsd3 | LRFR | DMmodule |

### 1.1 Glprmsd3

Global Office Parameter Glprmsd3

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Remote Measurement System.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glprmsd3.values: */
>        /* no check */ ;
```

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# Glproduct

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glproduct | LRFR | DMulong |

### 1.1 Fullname:

Product architecture mask

### 1.2 Description:

This global parameter is used to indicate the product architecture type.

***Type:*** DBULONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 1

***AM Initial Value:*** 1

***CMP Initial Value:*** 1

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is set by ODA. The value is a 32 bits unsigned long and its set to:

```
 1) AVMSK5ESS (0x00000001) -- for product 5ESS(R)-2000 switch
 2) AVMSKVCDX (0x00000002) -- for product VCDX/DRM
 3) AVMSKWNC  (0x00000004) -- for product WNC
```

***Retrofit Rules:*** For retrofitting to 5e10, this parameter is set to:

```
1) AVMSK5ESS (0x00000001) -- for 5ESS(R)-2000 switch offices
2) AVMSKVCDX (0x00000002) -- for VCDX/DRM office
```

***Default Rules:***

```
/* default to AVMSK5ESS */
default=0x00000001;
```

***Distribution Rules:***

```
        /* Populate on AM, CMP, and all SMs */
```

***Checks:***

```
BCproduct:      Glproduct != 0;
       for apconf in RLapconf
       where (apconf.feature is_in {PVMSK5ESS, PVMSKVCDX,
                    PVMSKWNC} && apconf.smconfig == CONFIGMAX)
       begin
              if ((apconf.ofcmap & Glproduct) != 0) then
              begin
```

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```
            if (apconf.feature is_in {PVMSKVCDX, PVMSKWNC})
            then
                    Glaws == DBYES;
            else
                    Glaws == DBNO;
      end
end
```

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# Glprohibit_dt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glprohibit_dt | FP | DMbool |

### 1.1 Glprohibit_dt

Global Office Parameter Glprohibit_dt

### 1.2 Description

This global office parameter is used to indicate that Prohibit Disconnect Timing (DBYES) is required for all MLHG members that have a Service Class of FC_ATTENDANT in this SM. Prohibit Disconnect Timing idles the MLHG member IMMEDIATELY upon disconnect, rather than applying normal 10 second disconnect timing. Default DBNO implies 10 second disconnect timing will be provided for all MLHG members with service class of FC_ATTENDENT that are located on this SM.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glprohibit_dt.values: */

if (current_pcr is_in sm_all) then
begin
        Glprohibit_dt is_in {DBNO, DBYES};
end
```

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# Glprt_ttf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glprt_ttf | FR | DMbool |

### 1.1 Glprt_ttf

Global Office Parameter Glprt_ttf

### 1.2 Description

Print touch tone fraud message when DPTF originates on DP-only line. It can be set to DBYES only when Glalw_ttf is also DBYES, and if the Service Provider wants the message to be printed.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glprt_ttf.values: */
Glprt_ttf is_in {DBNO, DBYES};
```

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# Glprtcd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glprtcd | LRFR | DMmodule |

### 1.1 Glprtcd

Functional addressing processor which provides global Real Time Call Detail (RTCD) billing.

### 1.2 Description:

This parameter contains the SM number of the global billing SM, this being the SM with an external Ethernet(R) connection to an RTCD billing server. The parameter can range from 0 - 192, with 0 meaning there is no global billing SM in the office.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** When an RTCD MELNK tuple is populated in RLenetlink on an SM, then Glprtcd should be set to that SM number, RLmodatt.billsm for that SM set to DBYES, and RLmodatt.eecsm for that SM must be DBNO. When the RTCD MELNK tuple is deleted from RLenetlink on an SM, then Glprtcd must be set to 0 and RLmodatt.billsm for that SM set to DBNO.

***Retrofit Rules:*** /* none */

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard - LRFR (AM,CMP and all SMs) */
```

***Checks:***

```
if (Glprtcd == 0)
then begin
        find == 0 modatt in RLmodatt
        where (modatt.billsm == DBYES);
end
else begin
        Glaws == DBNO;
        Glprtcd is_in sm_all;
```

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```
        find == 1 modatt in RLmodatt
        where (modatt.billsm == DBYES)
        when_found begin
                modatt.module == Glprtcd;
                modatt.eecsm == DBNO;
                modatt.unittype is_in {SMSM2000,SMSM2005};
        end
end
```

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# Glprtmi

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glprtmi | LRFR | DMbool |

### 1.1 Glprtmi

Global Office Parameter Glprtmi

### 1.2 Description

This office parameter is used to indicate whether or not an output message is to be generated when a mismatch is automatically detected between the ISLU U-card, and the network termination (NT). This control is to be on the entire switch basis and will be AM, PIP, and SM redundant. Its initial (default) value is to be DBNO and is to be recent change updatable.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glprtmi.values: */
Glprtmi is_in {DBNO, DBYES};
```

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# Glpses

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpses | LRFR | DMmodule |

### 1.1 Glpses

Global Office Parameter Glpses

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Service Evaluation System .

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpses.values: */
        /* no check */ ;
```

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# Glpseudo_carr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpseudo_carr | LRFR | DMbcarid |

### 1.1 Glpseudo_carr

Global Office Parameter Glpseudo_carr

***Defines:***
db/DMcarr_val.h

### 1.2 Description

This is the carrier id that will be outpulsed in the equal access signaling stream to an Access Tandem Service Switching Point switch. The carrier id should be defined as the PSEUDO carrier in the Access Tandem.

Allowable ranges: 0-FGDMAXBCAR A NULL carrier is defined as NULL_BCARID.

checks:

```
if Glpvn_ofc equals DBPVN_SSP
then
   Glpseudo must_not_be #NULL_BCARID
/* The following cross checks are not supported by RC */
/* a pseudo_carr must point to a RLfc_carr tuple with a carrier
 * type of PSEUDO.
 */
/* PVN destination index and PVN route index */
if (Glpseudo_carr is_not_equal_to #NULL_BCARID) then
begin
    for every tuple in RLfc_carr
    begin
       must find exactly one (1) tuple in RLfc_carr
       where (Glpseudo_carr is_equal_to RLfc_carr.carrid)
       when found
       begin
           RLfc_carr.pvn_ri must_not_be 0
           and
           RLfc_carr.carr_tp must_be TYPE_PSEUDO
       end;
    end;
end;
endchecks;
```

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

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***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = $NULL_BCARID;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpseudo_carr.values: */
Glpseudo_carr is_in {0 thru $FGDMAXBCAR, $NULL_BCARID};
```

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# Glpsinpa

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpsinpa | FP | DMchr8 |

### 1.1 Fullname:

Global Office Parameter Glpsinpa

### 1.2 Description:

Implied NPA (numbering plan area, or area code) of the office for ISDN packet switching. This NPA allows a telephone company to assign an implied NPA for packet switching which may be different from that for circuit switching (such as, voice call). Therefore, Glpsinpa may or may not be the same as Glinpa. The area code (NPA) chosen to be Glpsinpa should be the NPA most often implied by 7-digit packet switching calls originating from or incoming to this office. Even though 8 characters are used for defining the parameter, for domestic application, Glpsinpa will normally be 3 digits in the format of NXX where:

```
N = any digit from 2 through 9, inclusive
X = any digit from 0 through 9, inclusive
X = any digit from 0 through 9, inclusive
```

Glpsinpa is related to the RLnmimpdgts relation. In order to limit the number of tuples in the RLnmimpdgts relation, RLnmimpdgts is generally not populated with tuples for 7-digit calls whose implied NPA is the same as the Glinpa. Be aware that choosing a Glinpa which is not the most often implied npa for 7-digit calls will result in more tuples being populated in the RLnmimpdgts relation.

Occasionally customers may find a need to populate the RLnmimpdgts with the same implied NPA as the Glinpa. Again this results in more tuples being populated in the RLnmimpdgts relation.

This parameter should be populated only in all the ISDN SMs. Therefore, for the SMs with the GLISDNBASE software loadable package, Glpsinpa must be set to an appropriate value. For the SMs without the GLISDNBASE software loadable package, Glpsinpa is set to '\0'.

***Type:*** DB8STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** "\0"

***AM Initial Value:*** "NULL"

***CMP Initial Value:*** "NULL"

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

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```
default = "\0";
```

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glpsinpa.values: */

        /* no check */ ;

/* RULE about Glpsinpa: */

if (current_pcr is_in { 1 thru 192 }) then
begin
        if ( Glpsinpa != "\0" ) then
        begin
                find == 1 lpconf in RLlpconfig
                where ( lpconf.smconfig == Glconfigname &&
                        lpconf.package == GLISDNBASE );
        end
end
```

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# Glpsipgrp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpsipgrp | LR | DMuchar |

### 1.1 Glpsipgrp

Global Office Parameter Glpsipgrp

### 1.2 Description

This parameter indicates the total number of Multiple Internal Protocol Trunk Group in an office. It is nonprovisionable for the craft. When craft insert/ delete a Multiple IP Trunk Group, RCV/ODA will increment /decrement the count.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpsipgrp.values: */
        /* no check */ ;
```

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# Glpsmlhgs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpsmlhgs | LR | DMshort |

### 1.1 Glpsmlhgs

Global Office Parameter Glpsmlhgs

### 1.2 Description

This parameter indicates the number of Packet Switching Multi-Line Hunt Groups and Modem Pool Groups in the office. It must be updated by RC when the number of Packet Switching Multi-Line Hunt Groups and Modem Pool Groups is grown or de-grown. A Packet Switching MLHG has hunt type RTH_PSUCD or RTH_PSLGUCD in relation RLrt_mhg. A Modem Pool Group has a tuple in relation RLrt_mpg. Therefore, the value of this parameter should be the sum of all tuples in RLrt_mhg with the above hunt types plus the number of tuples in RLrt_mpg. Range from 0 to AVMLHGRPS(). Default is 0. This parameter is populated by ODA and supported by RC and ODBE.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Import:***
```
AVextern.R
```

***Checks:***
```
/* RULE about Glpsmlhgs.values: */
Glpsmlhgs is_in {0 thru AVMLHGRPS()};
```

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# Glpsn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpsn | FP | DMuchar |

### 1.1 Glpsn

Global Office Parameter Glpsn

### 1.2 Description:

For the SMs with the GLISDNBASE software loadable package, Glpsn must be set to an appropriate non-zero value. For the SMs without the GLISDNBASE software loadable package, Glpsn is set to 0 .

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:***

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
         for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glpsn.values: */
Glpsn is_in {0 thru 255};

/* RULE about Glpsn: */

 if ( (count ( {
        lpconf in RLlpconfig
        where ( lpconf.smconfig == Glconfigname &&
```

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```
                lpconf.package == GLISDNBASE ) } ) == 0 ) ) then
begin
BCpsn1: Glpsn == 0;
end
else
begin
/*
 * Cross check with RLpspsn_ri:
 * A destination Packet Switch Number must be defined if
 * any RLpspsn_ri tuple exists.
 */
if ( count {pspsn_ri in RLpspsn_ri} > 0 ) then
begin
BCpsn2: Glpsn != 0;
end
end

end
```

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# Glpstcmpl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpstcmpl | FR | DMuns4 |

### 1.1 Glpstcmpl

Post call completion period for DIOR Sequence Call Enhancements

### 1.2 Description

This parameter is used for the DIOR sequence call enhancements feature. This parameter is the amount of time after the end of a call to wait before playing a DIOR sequence call announcement. Currently, the default value is 2, with the capability of being changed to 0 - 9 or 15.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5e9_1 or 5e9_2: Bits 23 - 26 of Gloff2 must be copied to this global.

***Default Rules:***
```
default = 2;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpstcmpl.values: */
Glpstcmpl is_in {0 thru 9, 15};
```

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# Glpsubase

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpsubase | FP | DMctrladrs |

### 1.1 Glpsubase

Global Office Parameter Glpsubase

### 1.2 Description

This parameter stores the base address of the Side 0 PSU (formerly PSIU) controller (PSUCOM) circuit. This parameter is only needed in ISDN SMs. This parameter will be populated as follows: The Side 0 PSUCOM will be associated with the even numbered Peripheral Interface Control Bus (PICB) for the SMPSIU peripheral unit. The base address is a 16 bit value having the even numbered (HEX) PICB number for PSUCOM 0 in the upper 8 bits and zero in the lower 8 bits. DBGEN initializes Glpsubase to 0xe000, followed by ODA initialization if a PSIU is equipped. The value 0xe000 maps to Control Interface (CI) 7 which is not used thus safeguarding against improper use. This was picked instead of zero because improper use would result in LDSU peripheral detected bad addresses. Glpsubase is alterable by recent change (that is, PSIU growth).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0xe000

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0xe000;
```

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glpsubase.values: */
/* picb is the upper byte of Glpsubase */
if (current_pcr is_in sm_all) then
begin
if (Glpsubase != 0xe000) then
begin
```

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```
        /* the picb must be even */
        (Glpsubase >> 8)   == 0;
        /* cross check in RLcktdata */
        /* the unit number is always 0 for a PSIU */
        find == 1 unit_ckt in RLunit_ckt
        where ((unit_ckt.unit == 0) && (unit_ckt.utype == SMPSIU) &&
               (unit_ckt.ckt_indx == 1))
        when_found
        begin
                find == 1 cktdata in RLcktdata
                where (cktdata.name == unit_ckt.cktname)
                when_found
                begin
                        cktdata.type is_in { PCCCPSIU, PCCCPSU2 };
                        cktdata.baseadd == Glpsubase;
                end
        end
end
end

if (current_pcr is_in sm_all) then
begin
        if (Glpsubase !=0xe000) then
        begin
                /* PSU exists on this SM, and so a tuple in RLsmpsu
                 * must exist keyed by this (current) processor.
                 */
                find == 1 smpsu in RLsmpsu on current_pcr
                where (smpsu.sm == current_pcr && smpsu.psu == 0);
        end
end
```

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# Glpsushct

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpsushct | LR | DMuchar |

### 1.1 Glpsushct

Count of PSUs equipped with SH channel group

### 1.2 Description

This parameter counts the PSUs equipped with at least one Speech Handler (SH) Channel Group.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***
Not applicable.

***Retrofit Rules:***
Not applicable.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* Glpsushct is the count of those RLsmpsu tuples (count of PSUs)
 * where atleast one RLdslgdata tuple with SH Channel Group
 * exists on the corresponding PSU.
 */
let found_dslgdata(module) =
       find >= 1 dslgdata in RLdslgdata on module
       where (dslgdata.dsltype is_in {PS_CQ8CG, PS_CQ13CG, PS_EVRCCG,
                                      PS_ACELP, PS_VSELP});

Glpsushct == count {x in RLsmpsu on am where (found_dslgdata(x.sm)) };
```

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# Glpswmtc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpswmtc | LRFR | DMmodule |

### 1.1 Glpswmtc

Global Office Parameter Glpswmtc

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Global Switch Maintenance .

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpswmtc.values: */
        /* no check */ ;
```

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# Glptcpip

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glptcpip | LRFR | DMmodule |

### 1.1 Fullname:

Global Office Parameter Glptcpip

### 1.2 Description:

A new set of global parameters is needed is all processors (AM, SM, CMP) which maps logical applications to the to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to accur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is RC Data Memory .

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 193;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glptcpip.values: */

        /* no check */ ;
```

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# Glptera

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glptera | LRFR | DMmodule |

### 1.1 Glptera

Global Office Parameter Glptera

### 1.2 Description

All of the above Glp... parameters have the default

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Global Trunk Error Analysis.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glptera.values: */
        /* no check */ ;
```

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# Glptime

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glptime | LR | DMuns5 |

### 1.1 Glptime

Global Office Parameter Glptime

### 1.2 Description

The time interval within which repeated PIN failures under the Glthresh limit will not cause the call to be blocked prior to a query to determine if the PIN is valid. This is known as the permit time. Glptime must be less than Gllttime.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 4

***CMP Initial Value:*** 4

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 4;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glptime.values: */
Glptime is_in {4 thru 20};
```

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# Glptlws

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glptlws | LRFR | DMmodule |

### 1.1 Glptlws

Global Office Parameter Glptlws

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Trunk Line Work Station.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glptlws.values: */

        /* no check */ ;
```

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# Glptrdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glptrdb | FP | DMshort |

### 1.1 Fullname:

Current number of Rlptrdb tuples.

### 1.2 Description:

This global parameter contains a count of the number of rlPTRDB tuples.

This parameter should be set to

```
(1 + percentage of ACCS traffic that is DIOR-Quantum calls
        requiring terminating point code check) * the number
        of RAF/SAS-DTA ports in this SM (Glnraf) +
(1 + percentage of operator traffic that is DIOR-Quantum calls
        requiring terminating point code check) * the number of
        operator positions in this SM (Glnvdt + Glnint) + Gliptrdb
```

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** RC only: This parameter cannot be changed or viewed by Recent Change.

***Retrofit Rules:*** This value is always recalculated at retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***

```
env.R
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
```

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```
        Glptrdb is_in {0 thru 449};
end

if (runucv) then
begin
if (current_pcr is_in sm_all) then
begin

/* RULE about Glptrdb */

if ((count({lpconf in RLlpconfig
        where(lpconf.smconfig == Glconfigname &&
                lpconf.package == GLOPSMAUTO)}) > 0) ||
   (count({lpconf in RLlpconfig
        where(lpconf.smconfig == Glconfigname &&
                lpconf.package == GLOPSMDAAC)}) > 0)) then
begin
        Glptrdb is_in {0 thru 447};
        /* Glptrdb is_in {0 thru ($DBQNPTRDB - $DBSFPTRDB)}; */
        Glptrdb == Gliptrdb + count({lprtaccs in RLlprtaccs}) +
                   count({lprtpos in RLlprt_pos where
                                (lprtpos.pos_typ == OA_VDT)}) +
                   count({lprtpos in RLlprt_pos where
                                (lprtpos.pos_typ == OA_INT)});
end else begin
        Glptrdb == 0;
end

end
end
```

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# Glpts_sps

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpts_sps | FP | DMulong |

### 1.1 Fullname:

Global Office Parameter Glpts_sps

### 1.2 Description:

This parameter contains a bit-map of equipped and in-use Signal Processors in an SM which process signaling bits on peripheral time slots. In this context, in-use means that at least one of the two TSI links served by an SP FIFO has a board connected to it and the eq_stat of at least one or both of the entries in rlCKTDATA is SMOPER for both MCTSI service groups. The following can be connected to the TSI link and are reflected in this bit-map:

```
a DX board
a Peripheral Control and Timing (PCT) Link
```

For SMs, this parameter will always be populated with 1, since there is exactly one SP in SMs.
This value should remain intact during a Generic Retrofit.Glnts_sps.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:*** None

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glpts_sps.values: */

Glpts_sps is_in {0 thru 0x003fffff};
```

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```
end

/* RULE about Glpts_sps: */

function func() returning boolean
begin
   if (current_pcr is_in sm_all) then
   begin
      xmap = 0;
      find == 1 modatt in RLmodatt
      where (modatt.module == current_pcr)
      when_found
           if (modatt.unittype is_in {SMSM2000, SMSM2005}) then
           begin
               for lnk_use in RLlnk_use
               begin
                   select (lnk_use.use) begin
                   when (TS_DX):
                   begin
                       find == 1 cktdata in RLcktdata
                       where (cktdata.name == (0x2a + lnk_use.index))
                       when_found
                           if (cktdata.eqstat == SMOPER) then
                           begin
                               find == 1 tcktdata in RLcktdata
                               where (tcktdata.name ==
                                         (0x4a + lnk_use.index))
                                     when_found
                                     if (tcktdata.eqstat ==
                                                   SMOPER) then
                                     begin
                                         tmp = lnk_use.link/2;
                                         xmap {tmp} = 1;
                                     end
                           end
                   end
                   when (TS_PLI):
                   begin
                       /*
                        * Just check the is_oper
                        * attribute since it is
                        * DBYES only if both MCTSI
                        * service groups are SMOPER
                        * in RLcktdata.
                        */
                        if (lnk_use.is_oper == DBYES) then
                        begin
                             tmp = lnk_use.link/2;
                             xmap {tmp} = 1;
                        end
                   end
                   end
               end
           end
```

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```
      if (Glconfigname is_in { CNFG000,
                               CNFG001,
                               CNFG002,
                               CNFG003
                              } ) then
      begin
              assert(Glpts_spthens == 1);
      end
      else
      begin
              assert(Glpts_sps == xmap);
      end
      /* Ensure that no bits are set to 1 in both
       * Glnts_sps and Glpts_sps
       */
      assert(((Glpts_sps & Glnts_sps)) == 0);
   end
   return true;
end

if (current_pcr is_in sm_all) then
begin

func();

end
```

# Glptsa

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glptsa | LRFR | DMmodule |

### 1.1 Glptsa

Global Office Parameter Glptsa

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is TMS Line Slot Allocation.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 194

***AM Initial Value:*** 194

***CMP Initial Value:*** 194

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 194;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glptsa.values: */
/* no check */ ;
```

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# Glptsdbnum

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glptsdbnum | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glptsdbnum - peripheral time slot data block number

### 1.2 Description:

The global parameter Glptsdbnum contains a current count of the number of rlTSDB tuples required for peripheral to peripheral connections in an SM. The value of this parameter is incremented, when a PIDB or PCT link (as in the case of PSU) is grown, and is decremented when a PIDB/PCT link is de-grown. This Global Parameter corresponds to the H-Value GP needed by SRE.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** /* none */

***Retrofit Rules:*** Recalculated over Retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glptsdbnum: */

function func1() returning int
begin
        ptsdbnum = 0;
        for pidb in RLpidb
        begin
             for picb in RLpicb
             where (pidb.picb == picb.picb)
             begin
```

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```
                if (picb.unittype != SMLDSF3) then
                begin
                   ptsdbnum = ptsdbnum + 32;
                end
             end
        end
        for vpidb_f in RLvpidb_f
        begin
            ptsdbnum = ptsdbnum + 24;
        end

        /* accounts for PCT links if any */
        for pli_lnk in RLpli_lnk
        begin
                select (pli_lnk.unittype)
                begin
                        when (SMPSIU):
                        begin
                                ptsdbnum = ptsdbnum + 768;
                        end
                end
        end

        return ptsdbnum;
end


if (current_pcr is_in sm_all) then
begin
     find == 1 modatt in RLmodatt
     where (modatt.module == current_pcr)
     when_found
     begin
          if (modatt.unittype is_in {SMSM2000, SMSM2005})
          then
          begin
               Glptsdbnum == func1();  /* TM trigger */
          end
          else
          begin
               Glptsdbnum == 0;
          end
     end
end
```

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# Glpu_entry

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpu_entry | FP | DMshort |

### 1.1 Fullname:

Global Office Parameter Glpu_entry - call pickup entries.

### 1.2 Description:

Glpu_entry is the global parameter that is the current size of the RLpu_entry tuples that exist.

***NOTE:*** The algorithm in this file must be the same as the algorithm in fc/FCtrigint/FCpuentsz.c which is the init code for Glpu_entry. So if the algorithm in this file changes verify that it is consistent with the init code algorithm.

ODA has agreed to make the calculation changes in 5e10 even though the changes were made to this file in 5e11.

POPULATION:
The following algorithm should be used.
mu = (0.5 * 4 calls/hr/line * Glpu_usrs * 20 sec) / 3600 sec.
sigma = the square root of mu
tupcnt = mu + (5 * sigma) + Glipuentry

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Not applicable

***Retrofit Rules:*** Recalculated over a retrofit. See Glparams.V

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
"env.R
```

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***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glpu_entry.values: */

        Glpu_entry is_in { 0 thru 2000 };
/*      Glpu_entry is_in { $DBQNPU_ENT - $DBSFPU_ENT};  */

end


/* RULE about Glpu_entry: */

        function func() returning int
        begin
                /* Add 7199 to round up */
                mu = ((4 * Glpu_usrs * 20) + 7199) / (3600 * 2);

                sigma = sqrt(mu);

                tupcnt = mu + (5 * sigma) + Glipuentry;

                return tupcnt;
        end

if (runucv) then
begin
if (current_pcr is_in sm_all) then
begin

        Glpu_entry == func();
end
end
```

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# Glpu_usrs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpu_usrs | FP | DMshort |

### 1.1 Glpu_usrs

Global Office Parameter Glpu_usrs - pickup users

### 1.2 Description

Glpu_usrs represents the numbers of users that have the Call Pick terminating feature and have the potential of being queued on a SM (queuing SM). It is the sum of all members of every pickup group that will be queued on a SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***
Not applicable

***Retrofit Rules:***
Recalculated over a retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glpu_usrs.values: */
Glpu_usrs is_in { 0 thru 28800 };
end

/* RULE about Glpu_usrs: */
        function func1() returning boolean
```

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```
        begin
                pu_usr_cnt = 0;

                for pug_sm in RLpug_sm
                where (pug_sm.qmod == current_pcr)
                begin
                        pu_usr_cnt = pu_usr_cnt + pug_sm.size;
                end

                Glpu_usrs == pu_usr_cnt;
                return true;
        end

if (current_pcr is_in sm_all) then
begin
        func1();

end
```

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# Glpubfl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpubfl | FP | DMbool |

### 1.1 Glpubfl

TCS public indicator flag

### 1.2 Description

This global is used to indicate whether to display the 'Public ??' indicator on collect calls which require manual operator outpulsing for terminating code screening (TCS). It has the following meaning: if DBYES, display the indicator; if DBNO, do not display the indicator.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parameters, so FP is specified */
/* here.  The group partitioning should be:               */
/*      RLdb_gpdus.grp_type = GPD_OPRT                    */
/*      RLdb_gpdus.grp_id   = 3                           */
pcrlist = get_gpd_pcrlist (GPD_OPRT,3);
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
/* RULE about Glpubfl.values: */

        /* no check */ ;
```

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# Glpubphone

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpubphone | FR | DMbool |

### 1.1 Fullname:

IBNS Call Blocking Feature - LIDB Equipment/Service Indicator

### 1.2 Description:

This parameter shall be used to block an IBNS R2 call at the end of cuckoo tone when the LIDB Equipment/Service indicator indicates a public phone.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glpubphone: */
```

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# Glpupd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpupd | LRFR | DMmodule |

### 1.1 Glpupd

Global Office Parameter Glpupd

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Global Program Update.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpupd.values: */
        /* no check */ ;
```

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# Glputil

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glputil | LRFR | DMmodule |

### 1.1 Glputil

Global Office Parameter Glputil

### 1.2 Description

A new set of global parameters is needed in all processors (AM, SM, CMP) which maps logical applications to the processor on which they are provided. This parameter is used by OSDS when sending messages and by DB in determining on which processor an application associated relation is located. This parameter will only change when an application is moved to a different physical processor. In 5E6 there is no provision for allowing this to occur other than at retrofit. When multiple CMPs are supported these will change when applications are moved from one CMP to another CMP or to an SM in the case of the CCS link.

Functionality type is Global Generic Utilities .

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 193

***AM Initial Value:*** 193

***CMP Initial Value:*** 193

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 193;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glputil.values: */
        /* no check */ ;
```

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# Glpvn_ani

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpvn_ani | FR | DMuns7 |

### 1.1 Glpvn_ani

Global Office Parameter Glpvn_ani

### 1.2 Description

These should be set to the value for PVN automatic number identification (ANI). These digits are outpulsed in the Equal Access Signaling stream to carriers that will receive PVN calls. For an ASP office, the PVN ANI value must be set to a value between 00 and 99. For a non-ASP office, the PVN ANI value must be set to the default (null ANI) value of 100.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 100

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 100;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpvn_ani.values: */
Glpvn_ani is_in {0 thru 100};

/* RULE about Glpvn_ani: */
if (Glpvn_ofc == DBPVN_SSP) then
begin
        Glpvn_ani < 100;
end
```

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# Glpvn_das

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpvn_das | FR | DMda_tree |

### 1.1 Glpvn_das

Global Office Parameter Glpvn_das

### 1.2 Description

Analysis Selector (DAS) for the ASP dialing plan. Note, that the term Private Virtual Network (PVN) was later changed to ASP, but the internal parameter names and values have not changed. This parameter points to RLda_digstrt to obtain the starting location of digit analysis within the Office Dialing Plan (ODP). This parameter is used as digtree for dedicated lines (offhook-delay/offhook-immediate triggers) and dedicated trunks (trunk seizure/PRI channel triggers). This parameter is also used after an origination is identified as ASP by an access code trigger, BRI feature button trigger and a shared interoffice trunk trigger.

If the office is not an ASP office, this parameter must only be assigned its default value.

```
checks
if ( Glpvn_das != 0 ) then
do;
     Glpvn_das != Glscpl_das and
     Glpvn_das != Glscpt_das and
     Glpvn_ofc != DBNON_PVN
end;
```

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

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```
/* RULE about Glpvn_das.values: */
Glpvn_das is_in {0 thru 99};
```

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# Glpvn_ofc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpvn_ofc | LRFR | DMpvntype |

### 1.1 Glpvn_ofc

Global Office Parameter Glpvn_ofc

### 1.2 Description:

This is the advanced Services Platform (ASP) office configuration to support global parameter. Note, that the term Private Virtual Network (PVN) was later changed to ASP, but the internal parameter names and values have not changed.

Since ASP is a secured feature, this parameter must be DBNON_PVN, if this feature has NOT been purchased (#SFID058). If this feature has been purchased, this may be an ASP SSP (DBPVN_SSP) or a non ASP office (DBNON_PVN). If this is a non ASP office then no ASP data may be populated.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNON_PVN

***AM Initial Value:*** DBNON_PVN

***CMP Initial Value:*** DBNON_PVN

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNON_PVN;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
chk_apperm.R
```

***Checks:***
```
/* RULE about Glpvn_ofc */

if (Glpvn_ofc == DBPVN_SSP) then
begin
        Glsitrig != 0;
```

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```
end

/* RULE about Glpvn_ofc permitted by office type */

if (c_aperm(PVOPNET,CONFIGMAX) == false) then
begin
BCpvn_ofc:      Glpvn_ofc == DBNON_PVN;
end
```

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# Glpvn_resp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glpvn_resp | LRFR | DMshort |

### 1.1 Glpvn_resp

Global Office Parameter Glpvn_resp

### 1.2 Description

This is the timer that the Private Virtual Network service uses to wait for a response from the Switching Control Point (SCP) data base. This timer is specified in seconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 3

***AM Initial Value:*** 3

***CMP Initial Value:*** 3

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 3;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glpvn_resp.values: */

Glpvn_resp is_in {1 thru 5};
```

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## 3.27 Glq

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# Glqchktm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqchktm | FP | DMuns6 |

### 1.1 Glqchktm

Global Office Parameter Glqchktm

### 1.2 Description

This parameter specifies the time in minutes of how long to wait between checks of the ACQS message queue once a warning condition has been reached. Glqchktm is specified in minutes.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 3

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 3;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glqchktm.values: */

if (current_pcr is_in { 1 thru 192 }) then
begin
        Glqchktm is_in {1 thru 60};
end
```

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# Glqckthrhd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqckthrhd | LR | DMuns4 |

### 1.1 Glqckthrhd

Global Office Parameter Glqckthrhd

### 1.2 Description

Threshold used by Trunk Error Analysis to determine when a trunk port or UTD has been involved in consecutive MDII. Used by Export only.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 3

***CMP Initial Value:*** 3

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glqckthrhd.values: */

Glqckthrhd is_in {1 thru 15};
```

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# Glqgpoper

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqgpoper | LP | DMshort |

### 1.1 Glqgpoper

Global Office Parameter Glqgpoper (Quad link Gateway Processor)

### 1.2 Description:

This parameter indicates the of operational Quad link Gateway Processor (QGP) configuration in the office. For 5ESS®-2000 release 1, there can be a 0, 2, or 4 QGP configuration in the office.

This parameter is used by QLPS message routing and by Switch Maintenance to determine the given operational QGP configuration for the office.

This parameter is used by measurements to size reports.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Glqgpoper is populated in the AM only.

Glqgpoper is incremented by 2 whenever one QGP from a pair of QGPs (one on each side of the MSGS) is made operational.

Glqqpoper is set to 2 when one or both QGPs (QGP x-0) is in the operational state.

Glqqpoper is set to 4 when one or both QGPs (QGP x-1) are operational and both QGPs (QGP x-0) in the operational state.

Glqgpoper is decremented by 2 whenever both QGPs from a pair of QGPs (one on each side of the MSGS) is no longer operational.

***Retrofit Rules:*** ODA must recalculate this parameter during a retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

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```
        /* Standard */

        ;
```

***Checks:***

```
/* Count the number of operational QGPs. */
let config2 = find >= 1 spc in RLspc
                      where (spc.type == SM5QGP &&
                             spc.phys_id == 32 &&
                             spc.eqstat == SMOPER);

let config4 = find >= 1 spc in RLspc
                      where (spc.type == SM5QGP &&
                             spc.phys_id == 33 &&
                             spc.eqstat == SMOPER);

/* Check if there are 4 operational QGPs. */
if (config4 == true) then
begin
    /* There are two operational QGP pairs. */
BCqgpoper1:    Glqgpoper on am  == 4;
end
else
begin
    if (config2 == true) then
    begin
        /* There is one operational QGP pair. */
BCqgpoper2:     Glqgpoper on am == 2;
    end
    else
    begin
        /* There are no operational QGP pairs. */
BCqgpoper3:     Glqgpoper on am == 0;
    end
end

/* Range Check */
BCqgpoper4:  Glqgpoper on am is_in {0, 2, 4};
```

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# Glqlpseq

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqlpseq | LRFP | DMbool |

### 1.1 Fullname:

Global Office Parameter Glqlpseq

### 1.2 Description:

This parameter indicates whether the primary QLPS (Quad-Link Packet Switch) networks 0 and 1 are operational or in growth in the office or not.

(Note that this parameter is for QLPS networks 0 and 1 only. Other networks in the future must define new parameters.)

The default indicates that QLPS networks 0 and 1 are both NOT operational or in growth.

Glqlpseq will be used by Switch Maintenance code to know whether to traverse QLPS legs of code or not and as a defense check in maintenance code.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** Glqlpseq is redundant in the AM, CMP, and SM-2000's.
Glqlpseq is re-set to DBNO whenever 1 or more of the 4 QLPSs in networks 0 or 1 are removed.
Glqlpseq is set to DBYES when BOTH QLPS boards (one on each side of the ONTC) are at least in the growth state for BOTH QLPS networks 0 and 1. Glqlpseq must always be populated with the default value in SM's since access to QLPS will only be through Message Handler's (MHs) on SM-2000s, not SMs.

***Retrofit Rules:*** ODA must recalculate this parameter during a retrofit.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        pcrlist = get_gpd_pcrlist(GPD_QLPS, 0);
```

***Import:***
```
PLgpd_defs.R
```

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***Checks:***

```
/* Check if this is an SM */
BCsmQLPSEQ: if (current_pcr is_in sm_all) then
begin
    /* If this SM is an SM-2000 and there are 4 operational
     * or growth QLPSs and two QLPS networks, GLqlpseq must
     * equal DBYES otherwise DBNO.
     */
    find == 1 modatt in RLmodatt
    where (modatt.module == current_pcr)
    when_found
    begin
        if (((modatt.unittype is_in {SMSM2000, SMSM2005}) &&
                        (modatt.eqstat == SMOPER) &&
                        (Glqntwk on am == 2))) then
        begin
                Glqlpseq == DBYES;
        end
        else
        begin
                /* Glqlpseq should be DBNO. */
                Glqlpseq == DBNO;
        end
    end
end
else
begin
    /* Processor is the AM or CMP */
    if (Glqntwk on am == 2) then
    begin
        Glqlpseq == DBYES;
    end
end

/* Range Checks */
Glqlpseq is_in {DBNO, DBYES};
```

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# Glqlpsoper

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqlpsoper | LP | DMshort |

### 1.1 Fullname:

Global Office Parameter Glqlpsoper

### 1.2 Description:

This parameter indicates the number of QLPS (Quad-Link Packet Switch) boards that are operational in the office.

Note that all QLPS boards must be operational for the office to utilize the QLPS messaging network. For this reason the parameter will only be set to 0 or 4.

The default indicates that there are no operational QLPS boards for the office.

Glqlpsoper will be used by measurements code for sizing reports.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Glqlpsoper is populated in the AM only. Glqlpsoper is re-set to 0 whenever 1 or more of the 4 QLPS boards for networks 0 or 1 is degrown. Glqlpsoper is set to 4 when BOTH QLPS boards (one on each side of the ONTC) are in the operational state for BOTH QLPS networks 0 and 1.

***Retrofit Rules:*** ODA must recalculate this parameter during a retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* Standard */
        ;
```

***Checks:***

```
/* Check for 4 operational QLPSs. */
let qlpsoper = find == 4 qlps in RLqlps
               where (qlps.qnetwork is_in {QLNET0, QLNET1} &&
                      qlps.eqstat is_in {SMOPER});
```

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```
BCsmQLPSOPER1: Glqlpsoper on am  == (qlpsoper == true ? 4 : 0);

/* Range Checks */
BCsmQLPSOPER2: Glqlpsoper on am is_in {0, 4};
```

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# Glqntwk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqntwk | LP | DMshort |

### 1.1 Fullname:

Global Office Parameter Glqntwk

### 1.2 Description:

Indicates the number of QLPS (Quad-Link Packet Switch) networks that are operational or in growth in the office. (For 5E-2000 release 1, there will only be 2 networks - 0 and 1. In the future there may be up to 4 networks.)

This global parameter will be used by measurements to size reports about QLPS and by the ONTC SSP and QLFR.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Glqntwk is populated in the AM only. This parameter is initially set to 0 indicating no QLPS networks in the office. It is incremented by 1 when both QLPS boards for a network are grown in. It is decremented by 1 when 1 of the QLPS boards for a network is removed.

***Retrofit Rules:*** ODA must recalculate this parameter during a retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* Standard */
        ;
```

***Checks:***
```
/* A growth or operational QLPS network has a growth or
 * operational QLPS on side 0 and side 1 on the same network.
 * Glqntwk must equal the count of such networks.
 */

let net0 = find == 2 qlps in RLqlps
           where ((qlps.side == SM5SIDE0 || qlps.side == SM5SIDE1) &&
                   qlps.eqstat is_in {SMOPER, SMGROW} &&
```

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```
                  qlps.qnetwork == QLNET0);

let net1 = find == 2 qlps in RLqlps
           where ((qlps.side == SM5SIDE0 || qlps.side == SM5SIDE1) &&
                  qlps.eqstat is_in {SMOPER, SMGROW} &&
                  qlps.qnetwork == QLNET1);

if (net0 == true && net1 == true) then
begin
BCsmQNTWK1: Glqntwk on am == 2;
end
else if (net0 == true || net1 == true) then
begin
BCsmQNTWK2: Glqntwk on am == 1;
end
else
begin
BCsmQNTWK3: Glqntwk on am == 0;
end

/* Range Checks */
BCsmQNTWK4: Glqntwk on am is_in {0 thru 2};
```

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# Glqphcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqphcnt | FP | DMshort |

### 1.1 Fullname:

Global Office Parameter Glqphcnt

### 1.2 Description:

This global parameter specifies the total number of QPH's equipped on a switching module (SM).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** When a QPH is provisioned on an SM via Recent Change view 17.24 (QPH QPIPE ASSIGNMENT) or ODA form QPH QPIPE the global parameter, Glqphcnt on that SM should be incremented. When a QPH is deleted via Recent Change view 17.24 or ODA from QPH QPIPE, Glqphcnt on the SM should be decremented.

***Retrofit Rules:*** The value should be preserved over the retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        begin
                pcrlist[modatt.module] = true;
        end
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

        Glqphcnt == count {qph in RLqph on current_pcr};
end
```

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# Glqphlnkcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqphlnkcnt | FP | DMshort |

### 1.1 Fullname:

Global Office Parameter Glqphlnkcnt

### 1.2 Description:

This global parameter specifies the total number of QPH links on each QPH PIPE on a GSM. On SM's which are not GSM's, GLqphlnkcnt should be zero.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** PSqphlnkcnt,

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** When a QPH QPIPE link is provisioned on an SM via Recent Change view 17.24 (QPH QPIPE ASSIGNMENT) or ODA form QPH QPIPE the global parameter, Glqphlnkcnt on that SM should be incremented. When a QPH QPIPE link is deleted via Recent Change view 17.24 or ODA from QPH QPIPE, Glqphlnkcnt on the SM should be decremented.

***Retrofit Rules:*** The value should be preserved over the retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt
        begin
                pcrlist[modatt.module] = true;
        end
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
     Glqphlnkcnt == count {cmtpath in RLcmtpath
                           where (cmtpath.gsm == current_pcr &&
                                  cmtpath.pathtype == PSCMT_DMH)};
```

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```
end
```

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# Glqphmap

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqphmap | FP | DMhex32 |

### 1.1 Fullname:

Global Office Parameter Glqphmap

### 1.2 Description:

This global parameter is a bit map of equipped QPH indices on the GSM.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0x0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** When a QPH is inserted or deleted via Recent Change view 17.24 or ODA form QPH QPIPE, the corresponding bit in Glqphmap should be updated.

***Retrofit Rules:*** The value should be preserved over the retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        begin
                pcrlist[modatt.module] = true;
        end
```

***Checks:***
```
/* For each bit in Glqphmap which is one,
 * there must be a corresponding tuple in
 * RLqph.
 */

if (current_pcr is_in sm_all) then
begin
        for i in {0 thru 15}
        begin
                if (Glqphmap{i} == 1) then
```

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```
                begin
                        find == 1 qph in RLqph on current_pcr
                        where (qph.qphindx == i+1);
                end
        end
end
```

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# Glqrbns

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqrbns | FR | DMuns10 |

### 1.1 Glqrbns

Global Office Parameter Glqrbns

### 1.2 Description

LIDB query destination parameter for BNS calls, taking into account the carrier of the calls as well as the type of the calls: inter-LATA or intra-LATA. It is SM redundant.

Glqrbns has the following format:

| bit 9 | bit 8 | bit 7 | bit 6 | bit 5 | bit 4 | bit 3 | bit 2 | bit 1 | bit 0 |
|---|---|---|---|---|---|---|---|---|---|

The bits of Glqrbns have the following significance:

| BIT Positions | Call Carrier | Call Type | Bit Value (binary) | Query Destination |
|---|---|---|---|---|
| 1 \| 0 | AT&T | INTER | 00 | AT&T's BVA |
| 1 \| 0 | AT&T | INTER | 01 | LIDB |
| 1 \| 0 | AT&T | INTER | 10 | See RLnpa_head |
| 1 \| 0 | AT&T | INTER | 11 | Use default value |
| 3 \| 2 | AT&T | INTRA | 00 | AT&T's BVA |
| 3 \| 2 | AT&T | INTRA | 01 | LIDB |
| 3 \| 2 | AT&T | INTRA | 10 | See RLnpa_head |
| 3 \| 2 | AT&T | INTRA | 11 | Use default value |
| 5 \| 4 | BOC | INTER | 00 | AT&T's BVA |
| 5 \| 4 | BOC | INTER | 01 | LIDB |
| 5 \| 4 | BOC | INTER | 10 | See RLnpa_head |
| 5 \| 4 | BOC | INTER | 11 | Use default value |
| 7 \| 6 | BOC | INTRA | 00 | AT&T's BVA |
| 7 \| 6 | BOC | INTRA | 01 | LIDB |
| 7 \| 6 | BOC | INTRA | 10 | See RLnpa_head |
| 7 \| 6 | BOC | INTRA | 11 | Use default value |
| 9 \| 8 | DEFAULT | SEE BELOW | *0 | AT&T's BVA |
| 9 \| 8 | DEFAULT | SEE BELOW | *1 | LIDB |

* Bit 9 is a don't-care bit. The default destination is determined only by the bit 8.

The query destination for any given switch is determined by the following variables:

(1)The type of the operator service call: CCD or BNS;
(2)The carrier of the call;
(3)The type of the call: inter-LATA or intra-LATA.

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These variables are taken into account in the above table. For example, for a BNS call, if the Call Carrier is AT&T and the Call Type is inter-LATA, bits 0 and 1 of Glqrbns would be examined. A value of 00 means send the query to AT&T's BVA, a value of 01 means send the query to LIDB, a value of 10 (binary) means the bit map must be accessed to determine the query destination, a value of 11 (binary) means use the default destination as specified by the bit 8. Bit map refers to the data comprised of the tuples of Relation RLnpa_head or Relations RLnpa_head and RLnpa_nxx. Bit 8 is used to direct the query destination when the associated q2bit in RLnpa_head equals 3 (11 in binary), or when the associated tuple of RLnpa_head itself is absent, or when the associated bits in Glqrbns equals 3 (11 in binary).

The bit 8 of Glqrbns must equal the bit 8 of Glqrccd.

The I/O form of this global parameter is in hex.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 000;
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glqrbns.values: */

Glqrbns is_in {0x000 thru 0x3ff};
```

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# Glqrccd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqrccd | FR | DMuns10 |

### 1.1 Glqrccd

Global Office Parameter Glqrccd

### 1.2 Description

LIDB query destination parameter for CCD calls, taking into account the carrier of the calls as well as the type of the calls: inter-LATA or intra-LATA. It is SM redundant. Glqrccd has the following format:

| bit 9 | bit 8 | bit 7 | bit 6 | bit 5 | bit 4 | bit 3 | bit 2 | bit 1 | bit 0 |
|---|---|---|---|---|---|---|---|---|---|

The bits of Glqrccd have the following significance:

| BIT Positions | Call Carrier | Call Type | Bit Value (binary) | Query Destination |
|---|---|---|---|---|
| 1 \| 0 | AT&T | INTER | 00 | AT&T's BVA |
| 1 \| 0 | AT&T | INTER | 01 | LIDB |
| 1 \| 0 | AT&T | INTER | 10 | See RLnpa_head |
| 1 \| 0 | AT&T | INTER | 11 | Use default value |
| 3 \| 2 | AT&T | INTRA | 00 | AT&T's BVA |
| 3 \| 2 | AT&T | INTRA | 01 | LIDB |
| 3 \| 2 | AT&T | INTRA | 10 | See RLnpa_head |
| 3 \| 2 | AT&T | INTRA | 11 | Use default value |
| 5 \| 4 | BOC | INTER | 00 | AT&T's BVA |
| 5 \| 4 | BOC | INTER | 01 | LIDB |
| 5 \| 4 | BOC | INTER | 10 | See RLnpa_head |
| 5 \| 4 | BOC | INTER | 11 | Use default value |
| 7 \| 6 | BOC | INTRA | 00 | AT&T's BVA |
| 7 \| 6 | BOC | INTRA | 01 | LIDB |
| 7 \| 6 | BOC | INTRA | 10 | See RLnpa_head |
| 7 \| 6 | BOC | INTRA | 11 | Use default value |
| 9 \| 8 | DEFAULT | SEE BELOW | *0 | AT&T's BVA |
| 9 \| 8 | DEFAULT | SEE BELOW | *1 | LIDB |

* Bit 9 is a don't-care bit. The default destination is determined only by the bit 8.

The query destination for any given switch is determined by the following variables:

(1)The type of the operator service call: CCD or BNS;
(2)The carrier of the call;
(3)The type of the call: inter-LATA or intra-LATA.

These variables are taken into account in the above table. For example, for a CCD call, if the Call Carrier is AT&T and the Call Type is inter-LATA, bits 0 and 1 of Glqrccd would be examined. A value of 00 means send the query

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to AT&T's BVA, a value of 01 means send the query to LIDB, a value of 10 (binary) means the bit map must be accessed to determine the query destination, a value of 11 (binary) means use the default destination as specified by the bit 8. Bit map refers to the data comprised of the tuples of Relation RLnpa_head or Relations RLnpa_head and RLnpa_nxx. Bit 8 is used to direct the query destination when the associated q2bit in RLnpa_head equals 3 (11 in binary), or when the associated tuple of RLnpa_head itself is absent, or when the associated bits in Glqrccd equals 3 (11 in binary).

The bit 8 of Glqrccd must equal the bit 8 of Glqrbns.

The I/O form of this global parameter is in hex.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 000;
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glqrccd.values: */

Glqrccd is_in {0x000 thru 0x3ff};
```

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# Glqrydb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqrydb | FP | DMshort |

### 1.1 Fullname:

Current number of RLqrydb tuples.

### 1.2 Description:

This parameter contains a count of the number of rlQRYDB tuples.

This parameter should be set to

```
(1 + percentage of ACCS traffic that is DIOR-Quantum calls
       requiring terminating point code check) * the number of
       RAF/SAS-DTA ports in this SM (Glnraf) +
(1 + percentage of operator traffic that is DIOR-Quantum calls
       requiring terminating point code check) * the number of
       operator positions in this SM (Glnvdt + Glnint) + Gliqrydb.
```

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** RC only: This parameter cannot be changed or viewed by Recent Change.

***Retrofit Rules:*** This value is always recalculated at retrofit.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***

```
env.R
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
```

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```
        Glqrydb is_in {0 thru 448};
end
if (runucv) then
begin
if (current_pcr is_in sm_all) then
/* RULE about Glqrydb */
begin

if ((count({lpconf in RLlpconfig
        where(lpconf.smconfig == Glconfigname &&
                lpconf.package == GLOPSMAUTO)}) > 0) ||
   (count({lpconf in RLlpconfig
        where(lpconf.smconfig == Glconfigname &&
                lpconf.package == GLOPSMDAAC)}) > 0)) then
begin
        Glqrydb is_in {0 thru 448};
        /* Glqrydb is_in {0 thru ($DBQNQRYDB - $DBSFQRYDB)}; */
        Glqrydb == Gliqrydb + count({lprtaccs in RLlprtaccs}) +
                   count({lprtpos in RLlprt_pos where
                            (lprtpos.pos_typ == OA_VDT)}) +
                   count({lprtpos in RLlprt_pos where
                            (lprtpos.pos_typ == OA_INT)});
end else begin
        Glqrydb == 0;
end
end
end
```

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# Glqv_state

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqv_state | FP | DMushort |

### 1.1 Glqv_state

Per SM count of the total number of initialized ACD/BRCS Queuing and Vectoring State (rlQV_STATE) tuples.

### 1.2 Description

The Glqv_state global parameter contains an SM's current rlQV_STATE tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions when the ACD/BRCS feature is enabled on the switch. It is also updated by trigger functions as lines and trunks are assigned and when rlCLLQDB tuples are inserted. It will never be decreased.

***Retrofit Rules:***
```
/* See evolution rules in Glqv_state.V */
```

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
```

***Checks:***
```
/* RULE about Glqv_state.values: */
if (current_pcr is_in sm_all) then
begin
        /* Glqv_state is_in {0 thru (DBQNQV_STA - DBSFQV_STA)}; */
```

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```
        Glqv_state is_in {0 thru (16383 - 0)};
end

/* RULE about Glqv_state: */

if (current_pcr is_in sm_all) then
begin

        if ( Glbrcsacd on cmp == DBNO ) then
        begin
                Glqv_state == 0;
        end
        else
        begin

                /*
                 * Fraction of line calls which are
                 * originating and go to an ACD
                 */

                let FRLINACD = 20;

                /*
                 * Fraction of trunk calls which are
                 * incoming and go to an ACD
                 */

                let FRTRKACD = 2;

                /* Number of seconds that an ACD call is queued */

                let HTACDQU = 180;

                /* ACD calls/line/hour */

                let LINE_CALL_RATE = 5;

                /* ACD calls/trunk/hour */

                let TRK_CALL_RATE = 16;

                /*
                 * Number of rlQV_STATE tuples needed for
                 * ARU line calls terminating to an ACD
                 */

                let NQVSTARU = 0;

                /*
                 * Number of rlQV_STATE tuples needed for
                 * agent originated Queue Dialed calls
                 */

                let NQVSTQDC = 0;
```

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```
            /* Non-optimized trunk time slot adjustment factor */

            let N_TS_FACTOR = 2;

            /* Optimized trunk time slot adjustment factor */

            let O_TS_FACTOR = 1;


            /*
             * Compute the number of rlQV_STATE tuples required for
             * optimized incoming trunk calls terminating to the ACD.
*/

            let MUQVSTOT = ((Gloacdop / FRTRKACD) * TRK_CALL_RATE *
                            HTACDQU) / 3600;

            let NQVSTOT = (MUQVSTOT + (5 * (sqrt (MUQVSTOT)))) /
                            O_TS_FACTOR;

            /*
             * Compute the number of rlQV_STATE tuples required for
             * non-optimized incoming trunk calls terminating to the ACD.
             */

            let MUQVSTNT = (((Gltrkcnt - Gloacdop ) /
                            FRTRKACD) * TRK_CALL_RATE * HTACDQU) / 3600;

            let NQVSTNT = (MUQVSTNT + (5 * (sqrt (MUQVSTNT)))) /
                            N_TS_FACTOR;

            /*
             * Compute the number of rlQV_STATE tuples required
             * for line originated calls terminating to the ACD.
             */

            let MUQVSTL = (((Glalinecnt + Glshanal +
                            Glmaxterm ) / FRLINACD ) *
                            LINE_CALL_RATE * HTACDQU) / 3600;

            let NQVSTL = MUQVSTL + (5 * sqrt (MUQVSTL));

            /* Determine the minimum number of tuples required */

            let QV_STATE = min {NQVSTL + NQVSTOT + NQVSTNT + NQVSTARU +
                            NQVSTQDC, Glcllqdb};

   /*       if (QV_STATE + Gliqv_stat <= (DBQNQV_STA - DBSFQV_STA)) then */
            if (QV_STATE + Gliqv_stat <= (16383 - 0)) then
            begin
                    Glqv_state >= QV_STATE + Gliqv_stat;
            end
            else
```

```
                begin
        /*              Glqv_state == DBQNQV_STA - DBSFQV_STA;  */
                        Glqv_state == 16383 - 0;
                end
        end
end
```

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# Glqvaga

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqvaga | FR | DMuns8 |

### 1.1 Glqvaga

For ACD/BRCS queuing and vectoring this parameter specifies the per call absolute limit on the number of ACD status queries and Third Party Call Control (TPCC) host queries.

### 1.2 Description

For ACD/BRCS calls receiving call vectoring treatment, this parameter specifies the maximum number of: GOTOAGE, GOTOQUE, GOTOSTA, GOTOAVL, and REQRTE steps that can be processed for a given call. When this limit is reached for a given call, vector processing is stopped. If the call has been previously placed into a queue, the call remains in that queue and any currently active delay treatment (MUSIC/RING/QUIET) continues. If the call has NOT been previously queued, the call is given reorder.

When the global parameter contains 0, no limit is enforced.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by both ODA and RC.

***Retrofit Rules:***
```
/* See evolution rules in Glqvaga.V */
```

***Default Rules:***
```
default = 4;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glqvaga.values: */

Glqvaga is_in {0 - 255};
```

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# Glqvagt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqvagt | FR | DMuns8 |

### 1.1 Glqvagt

For ACD/BRCS queuing and vectoring this parameter specifies the per call absolute limit on the number of time-of-day and day-of-week queries.

### 1.2 Description

For ACD/BRCS calls receiving call vectoring treatment, this parameter specifies the maximum number of GOTOTOD/ GOTODOW steps that can be processed for a given call. When this limit is reached for a given call, vector processing is stopped. If the call has been previously placed into a queue, the call remains in that queue and any currently active delay treatment (MUSIC/RING/QUIET) continues. If the call has NOT been previously queued, the call is given reorder.

When the global parameter contains 0, no limit is enforced.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by both ODA and RC.

***Retrofit Rules:***
```
/* See evolution rules in Glqvagt.V */
```

***Default Rules:***
```
default = 10;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glqvagt.values: */

Glqvagt is_in {0 - 255};
```

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# Glqvagv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqvagv | FR | DMuns8 |

### 1.1 Glqvagv

For ACD Queuing and Vectoring
this parameter specifies the per call absolute limit on the number of inter-vector transfers (GOTOs).

### 1.2 Description

For ACD/BRCS calls receiving call vectoring treatment, this parameter specifies the maximum number of inter-vector GOTOs (that is, any conditional or unconditional GOTOs that specify a different vector) that can be processed for a given call. When this limit is reached for a given call, vector processing is stopped. If the call has been previously placed into a queue, the call remains in that queue and any currently active delay treatment (MUSIC/RING/QUIET) continues. If the call has NOT been previously queued, the call is given reorder.

When the global parameter contains 0, no limit is enforced.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by both ODA and RC.

***Retrofit Rules:***
```
/* See evolution rules in Glqvagv.V */
```

***Default Rules:***
```
default = 20;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glqvagv.values: */

Glqvagv is_in {0 - 255};
```

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# Glqvand

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqvand | FR | DMuns8 |

### 1.1 Glqvand

For ACD/BRCS queuing and vectoring this parameter specifies the per call absolute limit on the number music and announce steps.

### 1.2 Description

For ACD/BRCS calls receiving call vectoring treatment, this parameter specifies the maximum number of MUSIC/ ANNOUNCE steps that can be processed for a given call. When this limit is reached for a given call, vector processing is stopped. If the call has been previously placed into a queue, the call remains in that queue and any currently active delay treatment (MUSIC/RING/QUIET) continues. If the call has NOT been previously queued, the call is given reorder.

When the global parameter contains 0, no limit is enforced.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by both ODA and RC.

***Retrofit Rules:***
```
/* See evolution rules in Glqvand.V */
```

***Default Rules:***
```
default = 10;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glqvand.values: */

Glqvand is_in {0 - 255};
```

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# Glqvanq

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqvanq | FR | DMuns8 |

### 1.1 Glqvanq

For ACD/BRCS queuing and vectoring this parameter specifies the absolute limit on the duration of an announcement (in seconds) when a call is set-up to an announcement and the call has not been previously placed into an ACD/BRCS queue.

### 1.2 Description

For ACD/BRCS calls receiving call vectoring treatment, this parameter specifies the maximum number of seconds an announcement can last when a call is set-up to an announcement and the call has not been previously placed into an ACD/BRCS queue. The purpose of this limit is to detect when a Route Index to a Music Source has been mistakenly used instead of a Route Index to an Announcement. The result would be that any ANNOUNCE step using this RI will never end. If a call has been previously queued, this is of little concern. However, when the call has NOT been queued, an error of this sort can tie up all vectoring resources (such as, rlQV_STATE tuples).

When the global parameter contains 0, no limit is enforced.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 120

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by both ODA and RC.

***Retrofit Rules:***
```
/* See evolution rules in Glqvanq.V */
```

***Default Rules:***
```
default = 120;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glqvanq.values: */

Glqvanq is_in {0 - 255};
```

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# Glqvaqt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqvaqt | FR | DMuns8 |

### 1.1 Glqvaqt

For ACD/BRCS queuing and vectoring this parameter specifies the per call absolute limit on the number of queue steps.

### 1.2 Description

For ACD/BRCS calls receiving call vectoring treatment, this parameter specifies the maximum number of QUEUE steps that can be processed for a given call. When this limit is reached for a given call, vector processing is stopped. If the call has been previously placed into a queue, the call remains in that queue and any currently active delay treatment (MUSIC/RING/QUIET) continues. If the call has NOT been previously queued, the call is given reorder.

When the global parameter contains 0, no limit is enforced.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by both ODA and RC.

***Retrofit Rules:***
```
/* See evolution rules in Glqvaqt.V */
```

***Default Rules:***
```
default = 4;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glqvaqt.values: */

Glqvaqt is_in {0 - 255};
```

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# Glqvcvfb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqvcvfb | FR | DMbool |

### 1.1 Glqvcvfb

This global parameter is used to enable or disable the ACD/BRCS call vectoring feature on the switch.

### 1.2 Description

Glqvcvfb is the ACD/BRCS call vectoring feature bit which is used to enable (DBYES) or disable (DBNO) the ACD/BRCS call vectoring feature on the switch. When the value of Glqvcvfb is DBNO, an ACD/BRCS call is given standard queuing and delay treatment. When the value of Glqvcvfb is DBYES an ACD/BRCS call can be given call vectoring treatment.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***
This parameter is supported by both ODA and RC.

***Retrofit Rules:***
```
/* See evolution rules in Glqvcvfb.V */
```

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glqvcvfb.values: */

        /* no check */ ;
```

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# Glqvidtm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqvidtm | FR | DMushort |

### 1.1 Glqvidtm

ACD/BRCS call vector initial digit timing.

### 1.2 Description

For ACD/BRCS calls receiving call vectoring treatment, when executing a call vector PROMPT command, this parameter specifies the time (in milli-seconds) to wait for the initial (first) caller entered digit.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 8000

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by both ODA and RC. ODA and RC must display this value in seconds (1 - 64) on the view, but must store the value in milli-seconds in the global parameter.

***Retrofit Rules:***
```
/* See evolution rules in Glqvidtm.V */
```

***Default Rules:***
```
default = 8000;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glqvidtm.values: */

Glqvidtm is_in {1000 - 64000};
```

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# Glqvpau

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqvpau | FR | DMuns8 |

### 1.1 Glqvpau

For ACD/BRCS queuing and vectoring this parameter specifies the length of time (in seconds) that a call will be paused if any of the resettable limits are reached.

### 1.2 Description

For ACD/BRCS calls receiving call vectoring treatment, this parameter specifies the length of time (in seconds) that a call will be paused if any of the resettable limits (Glqvrqt, Glqvrga, Glqvrgv, Glqvrgt or Glqvrnd) are reached. The call is paused in order to prevent it from consuming more than a certain amount of real time in a given period.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 5

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***
This parameter is supported by both ODA and RC.

***Retrofit Rules:***
```
/* See evolution rules in Glqvpau.V */
```

***Default Rules:***
```
default = 5;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glqvpau.values: */

Glqvpau is_in {5 - 255};
```

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# Glqvrga

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqvrga | FR | DMuns8 |

### 1.1 Glqvrga

For ACD/BRCS queuing and vectoring this parameter specifies the per call resettable limit on the number of ACD status queries and Third Party Call Control (TPCC) host queries.

### 1.2 Description

For ACD/BRCS calls receiving call vectoring treatment, this parameter specifies the maximum number of: GOTOAGE, GOTOQUE, GOTOAVL, GOTOSTA, and REQRTE steps that can be processed without pausing. The counter used to count the steps is reset whenever an ANNOUNCE, MUSIC, RING or QUIET step is successfully processed. If the counter reaches the limit specified by this global, vector processing is paused for the number of seconds specified by Glqvpau and all resettable limit counters are cleared. If the call has been previously placed into a queue, the pause will end early if an agent becomes available during the pause. Any currently active delay treatment (MUSIC/RING/QUIET) continues during the pause. If no delay treatment is active, the caller will hear silence during the pause.

When the global parameter contains 0, no limit is enforced.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***
This parameter is supported by both ODA and RC.

***Retrofit Rules:***
```
/* See evolution rules in Glqvrga.V */
```

***Default Rules:***
```
default = 2;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glqvrga.values: */
```

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```
Glqvrga is_in {0 - 255};
```

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# Glqvrgt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqvrgt | FR | DMuns8 |

### 1.1 Glqvrgt

For ACD/BRCS queuing and vectoring this parameter specifies the per call resettable limit on the number of time-of-day and day-of-week queries.

### 1.2 Description

For ACD/BRCS calls receiving call vectoring treatment, this parameter specifies the maximum number of GOTOTOD/ GOTODOW steps that can be processed without pausing. The counter used to count the steps is reset whenever an ANNOUNCE, MUSIC, RING or QUIET step is successfully processed. If the counter reaches the limit specified by this global, vector processing is paused for the number of seconds defined by Glqvpau and all resettable limit counters are cleared. If the call has been previously placed into a queue, the pause will end early if an agent becomes available during the pause. Any currently active delay treatment (MUSIC/RING/QUIET) continues during the pause. If no delay treatment is active, the caller will hear silence during the pause.

When the global parameter contains 0, no limit is enforced.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 6

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***
This parameter is supported by both ODA and RC.

***Retrofit Rules:***
```
/* See evolution rules in Glqvrgt.V */
```

***Default Rules:***
```
default = 6;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glqvrgt.values: */

Glqvrgt is_in {0 - 255};
```

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# Glqvrgv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqvrgv | FR | DMuns8 |

### 1.1 Glqvrgv

For ACD queuing and vectoring this parameter specifies the per call resettable limit on the number of inter-vector transfers (GOTOs).

### 1.2 Description

For ACD/BRCS calls receiving call vectoring treatment, this parameter specifies the maximum number of inter-vector GOTOs that can be processed without pausing. The counter used to count the steps is reset whenever an ANNOUNCE, MUSIC, RING or QUIET step is successfully processed. If the counter reaches the limit specified by this global, vector processing is paused for the number of seconds defined by Glqvpau and all resettable limit counters are cleared. If the call has been previously placed into a queue, the pause will end early if an agent becomes available during the pause. Any currently active delay treatment (MUSIC/RING/QUIET) continues during the pause. If no delay treatment is active, the caller will hear silence during the pause.

When the global parameter contains 0, no limit is enforced.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***
This parameter is supported by both ODA and RC.

***Retrofit Rules:***
```
/* See evolution rules in Glqvrgv.V */
```

***Default Rules:***
```
default = 2;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glqvrgv.values: */

Glqvrgv is_in {0 - 255};
```

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# Glqvrnd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqvrnd | FR | DMuns8 |

### 1.1 Glqvrnd

For ACD/BRCS queuing and vectoring this parameter specifies the per call resettable limit on the number music and announce steps.

### 1.2 Description

For ACD/BRCS calls receiving call vectoring treatment, this parameter specifies the maximum number of MUSIC/ ANNOUNCE steps that can be processed without pausing. The counter used to count the steps is reset whenever an ANNOUNCE, MUSIC, RING or QUIET step is successfully processed (thus only MUSIC and ANNOUNCE steps that fail to route to the specified port will leave the counter non-zero). If the counter reaches the limit specified by this global, vector processing is paused for the number of seconds defined by Glqvpau and all resettable limit counters are cleared. If the call has been previously placed into a queue, the pause will end early if an agent becomes available during the pause. Any currently active delay treatment (MUSIC/RING/QUIET) continues during the pause. If no delay treatment is active, the caller will hear silence during the pause.

When the global parameter contains 0, no limit is enforced.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***
This parameter is supported by both ODA and RC.

***Retrofit Rules:***
```
 /* See evolution rules in Glqvrnd.V */
```

***Default Rules:***
```
default = 1;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glqvrnd.values: */
```

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```
Glqvrnd is_in {0 - 255};
```

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# Glqvrqt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqvrqt | FR | DMuns8 |

### 1.1 Glqvrqt

For ACD/BRCS queuing and vectoring this parameter specifies the per call resettable limit on the number of queue steps.

### 1.2 Description

For ACD/BRCS calls receiving call vectoring treatment, this parameter specifies the maximum number of QUEUE steps that can be processed without pausing. The counter used to count QUEUE steps is reset whenever an ANNOUNCE, MUSIC, RING or QUIET step is successfully processed. If the counter reaches the limit specified by this global, vector processing is paused for the number of seconds defined by Glqvpau and all resettable limit counters are cleared. If the call has been previously placed into a queue, the pause will end early if an agent becomes available during the pause. Any currently active delay treatment (MUSIC/RING/QUIET) continues during the pause. If no delay treatment is active, the caller will hear silence during the pause.

When the global parameter contains 0, no limit is enforced.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***
This parameter is supported by both ODA and RC.

***Retrofit Rules:***
```
/* See evolution rules in Glqvrqt.V */
```

***Default Rules:***
```
default = 1;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glqvrqt.values: */

Glqvrqt is_in {0 - 255};
```

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# Glqvsdtm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqvsdtm | FR | DMushort |

### 1.1 Glqvsdtm

ACD/BRCS call vector subsequent digit timing.

### 1.2 Description

For ACD/BRCS calls receiving call vectoring treatment, when executing a call vector PROMPT command, this parameter specifies the time (in milli-seconds) to wait for the subsequent caller entered digits when collecting more than one digit, that is, the remaining digits in a multi-digit PROMPT step.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 5000

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by both ODA and RC. ODA and RC must display this value in seconds (1 - 64) on the view, but must store the value in milli-seconds in the global parameter.

***Retrofit Rules:***
```
/* See evolution rules in Glqvsdtm.V */
```

***Default Rules:***
```
default = 5000;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glqvsdtm.values: */

Glqvsdtm is_in {1000 - 64000};
```

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# Glqvtlv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqvtlv | FR | DMuns8 |

### 1.1 Glqvtlv

For ACD/BRCS queuing and vectoring this parameter specifies the per call absolute limit on the total number of vector steps that can be executed.

### 1.2 Description

For ACD/BRCS calls receiving call vectoring treatment, this parameter specifies the total number of vector steps that can be executed per call. Its purpose is to detect and terminate endless loops in an ACD/BRCS customer's call vector 'program'.

When the global parameter contains 0, no limit is enforced.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 100

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by both ODA and RC.

***Retrofit Rules:***
```
/* See evolution rules in Glqvtlv.V */
```

***Default Rules:***
```
default = 100;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glqvtlv.values: */

Glqvtlv is_in {0 - 255};
```

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# Glqvtmn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glqvtmn | FR | DMuns8 |

### 1.1 Glqvtmn

For ACD/BRCS queueing and vectoring this parameter specifies the absolute limit on the number of seconds a call can be vectored without being placed on a queue.

### 1.2 Description

For ACD/BRCS calls receiving call vectoring treatment, this parameter specifies a time limit (in seconds) on the total time a call can be vectored without being placed on a queue. The purpose of this parameter is to guarantee that a call cannot be given vectoring treatment (such as, connected to announcements and music) indefinitely if it has not been placed into a queue. It is needed in ACD applications where callers expect to wait for a long period of time (hours) to prevent a vectoring error from tying up global vectoring resources (such as, rlQV_STATE tuples) with unproductive calls (without this limit, these calls may only be cleared from the switch by initializing the SMs).

When the global parameter contains 0, no limit is enforced.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 120

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by both ODA and RC.

***Retrofit Rules:***
```
/* See evolution rules in Glqvtmn.V */
```

***Default Rules:***
```
default = 120;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glqvtmn.values: */

Glqvtmn is_in {0 - 255};
```

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## 3.28 Glr

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# Glralmmod

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glralmmod | FP | DMmodule |

### 1.1 Fullname:

Global Office Parameter Glralmmod

### 1.2 Description:

This global parameter indicates if the Alarm Output Option is present, and if so, on which SM. This parameter is populated in all SMs.

The Alarm Output Option indicates the ability to report audible and visual alarms and status at an SM via either an RAU (Remote Alarm Unit) or ASU (Alarm and Status Unit). The following SM configurations either require or optionally support the Alarm Output Option:

- Single RSM or ORM/TRM. If the Alarm Output Option is on, Glralmmod will be set to the number of the SM. Otherwise it is zero.

- MMRSM cluster. If the Alarm Output Option is on, all SMs in the cluster will have Glralmmod set to the number of the SM hosting the alarm panel. Otherwise, it will be zero in all SMs in the cluster.

- ORM/TRM colocated group. If SMs in the group are sharing the alarm panel, they will have Glralmmod set to the number of the SM hosting the alarm panel. Otherwise, it will be zero in all SMs in the group.

- VCDX SM. The Alarm Output Option is required, so Glralmmod must be equal to the SM number.

- DRM. If the Alarm Output Option is on, Glralmmod will be set to the number of the SM. Otherwise, it is zero.

In all other modules, Glralmmod is set to zero.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

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***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***

```
chk_apperm.R
```

***Checks:***

```
/* RULE about Glralmmod.values: */


if (current_pcr is_in sm_all) then
begin
/* If this is a VCDX (Very Compact Digital Exchange), then
 * this parameter must be the SM number of this SM. (There is
 * only 1 SM in a VCDX office and checks in RLmodatt enforce
 * that it cannot be an HSM, RSM, ORM or TRM.)
 */
if ((c_aperm(PVUSCSD,CONFIGMAX) == false) && (Glvirtsw == DBNO)) then
begin
        Glralmmod == Gl_pcrid;
end
end
```

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# Glralmtmg

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glralmtmg | FP | DMshort |

### 1.1 Fullname:

Global Office Parameter Glralmtmg

### 1.2 Description:

This global parameter contains the remote alarm audible timing in seconds. If output option exists at a site, it is populated with a proper value in the master module. In all other modules it is populated with zero. Otherwise it is populated in all the modules with zero.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glralmtmg.values: */

if (current_pcr is_in sm_all) then
begin
/*
 * If alarm output option exists AND alarm module
 * is equal to the current SM number then Glralmtmg
 * must be set to a value greater than or equal to 5.
 */
if ((Glralmmod != 0) && (Glralmmod == Gl_pcrid)) then
        begin
                Glralmtmg >= 5;
```

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```
        end
end
```

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# Glrasdls

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrasdls | FP | DMuns5 |

### 1.1 Glrasdls

Global Office Parameter Glrasdls

### 1.2 Description

Description This parameter specifies the quantity of RISLU Remote Alarm Section (RAS) data link DSLs that are connected to the SM. This parameter is populated by ODA and RC but does not appear on any view. Each SM's parameter is set to the number of RLDLDSL tuples in that SM with the servclass attribute set to HM_RAS.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glrasdls.values: */

if (current_pcr is_in sm_all) then
begin
      Glrasdls is_in {0 thru 16};
end
```

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# Glratealmthr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glratealmthr | LR | DMuns7 |

### 1.1 Glratealmthr

Global Office Parameter Glratealmthr

### 1.2 Description

This global parameter contains the rating software alarm threshold, which is a value for the successful query percentage. If percentage falls below this threshold an alarm is activated.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 95

***CMP Initial Value:*** 95

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 95;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glratealmthr.values: */

Glratealmthr is_in {0 thru 100};
```

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# Glrateminqry

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrateminqry | LR | DMuns7 |

### 1.1 Glrateminqry

Global Office Parameter Glrateminqry

### 1.2 Description

Minimum rate query attempts which are rquired in a quarter hour before rate software alarm calculations will be performed.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 40

***CMP Initial Value:*** 40

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 40;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glrateminqry.values: */

Glrateminqry is_in {1 thru 64};
```

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# Glrateovldtm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrateovldtm | LRFR | DMuns4 |

### 1.1 Glrateovldtm

Global Office Parameter Glrateovldtm

### 1.2 Description

This global parameter contains the rating data base overload timing for cut back controls. This parameter indicates how long rating query cutback controls will be in affect for any non_zero overload level received from the rating data base. Range is in minutes from 0 to 8, with 0 being 5 seconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 1

***CMP Initial Value:*** 1

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 1;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glrateovldtm.values: */

Glrateovldtm is_in {0 thru 8};
```

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# Glratetime

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glratetime | LRFR | DMuns4 |

### 1.1 Glratetime

Global Office Parameter Glratetime

### 1.2 Description

Rating query time out parameter which is specified in seconds. This parameter indicates the longest period of time that call processing will wait for a rating reply from the data base. A timeout will result in a rating failure. Since the level of query traffic that can be handled decreases as the holding time increases, extreme care should be used when increasing the value above the default value.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4

***AM Initial Value:*** 4

***CMP Initial Value:*** 4

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 4;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glratetime.values: */

/* WARNING: Should the range for Glratetime increase to a */
/* maximum greater than 8, the crosscheck in Glclmrt.R    */
/* must be updated to reflect the change.                 */
Glratetime is_in {1 thru 8};
```

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# Glrbpsc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrbpsc | FP | DMbool |

### 1.1 Fullname:

Global Office Parameter Glrbpsc

### 1.2 Description:

Indicates if the Alarm Input Option is present on an SM. This parameter is populated in all SMs.

The Alarm Input Option indicates the ability to scan for environmental alarms. The following SM configurations either require or optionally support the Alarm Input Option:

```
- Single RSM or ORM/TRM.  If the Alarm Input Option is on, Glrbpsc
  will be set to DBYES.  Otherwise it is DBNO.

- MMRSM cluster.  If the Alarm Input Option is on, the SM scanning
  for alarms will have Glrbpsc set to yes; all other SMs in the
  cluster will have Glrbpsc set to DBNO. Otherwise, all SMs in the
  cluster will have it set to DBNO.

- VCDX SM.  The Alarm Input Option is required, so Glrbpsc is
  DBYES.

- DRM.  If the Alarm Input Option is on, Glrbpsc will be DBYES;
  otherwise it is DBNO.
```

In all other modules, Glrbpsc is set to DBNO.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        for modatt in RLmodatt
```

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```
        pcrlist[modatt.module] = true;
```

***Import:***

```
chk_apperm.R
```

***Checks:***

```
/* RULE about Glrbpsc.values: */


if (current_pcr is_in sm_all) then
begin
/*
 * In a VCDX office, there are no AM scanner and signal
 * distributor circuits.  The alarms must be scanned by the SM,
 * and this parameter must be DBYES.
 */
if ((c_aperm(PVUSCSD,CONFIGMAX) == false) && (Glvirtsw == DBNO))
then
begin
        Glrbpsc == DBYES;
end
end
```

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# Glrcd_3pt1

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrcd_3pt1 | FR | DMrcd_3pt1 |

### 1.1 Glrcd_3pt1

Global Office Parameter Glrcd_3pt1

### 1.2 Description

Glrcd_3pt1 is used to determine the bearer capability (IAM.USI.tr_cap value) under the following conditions.

(1) The call has a bearer capability of '3.1kHz audio'.

(2) The call is about to be routed out over an ISUP trunk.

(3) The office processing the call is either a local tandem which received the call via an incoming inband signaling speech trunk or an originating end office.

(4) The per trunk group indicator stored in RLfc_trunk, (rcd_3pt1_itc), was null.

The following table shows the value for Glrcd_3pt1 and the action that will be taken.

| Value: | Action: |
|---|---|
| DBSPEECH | Recode IAM.USI.tr_cap to 'speech' |
| DB3PT1KHZ | Send out IAM.USI as '3.1kHz audio' without modification |

Glrcd_3pt1 should not be set to DB3PT1KHZ until the following are true:

(1) All far switches have implemented the rule that the value of the USI parameter is either controlled by the trunk group parameter (if not set to 'null' or the switch parameter).

(2) The transmission facilities to all far switches are capable of handling calls with a bearer capability of '3.1kHz audio'.

(3) The software at all far switches is capable of handling calls with a bearer capability of '3.1kHz audio'.

These checks cannot be made by the software. It is therefore up to the craft personnel to make these checks before changing the global office parameter Glrcd_3pt1 to DB3PT1KHZ.
Gloftyp

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

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***SM Initial Value:*** DBSPEECH

***AM Initial Value:*** DBSPEECH

***CMP Initial Value:*** DBSPEECH

***RC/ODA Rules:*** Glrcd_3pt1 must not be set to DBSPEECH at a toll office.

***Retrofit Rules:*** In a newly retrofitted office, all trunk groups will have RLrctgrprk.rcd_3pt1_itc set to DBNULLITC. This means that Glrcd_3pt1 will control the outgoing USI value for all ISUP trunks in a newly retrofitted office.

For a newly retrofitted Local Exchange Carrier (LEC) owned switch, Glrcd_3pt1 should be set to its default value of DBSPEECH. This will assure that the sending out of '3.1kHz audio' bearer capability values will not begin until all conditions shown above are true.

For a newly retrofitted toll switch, Glrcd_3pt1 should be set to DB3PT1KHZ. This will assure that AT&T toll switches will continue to send 3.1kHz audio calls out without recoding.

When retrofitting from a 5E8 release to a 5E9 or later software release, the value of Glrcd_3pt1 should be carried forward as is.

***Default Rules:*** default = DBSPEECH;

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glrcd_3pt1.values: */

Glrcd_3pt1 is_in {DBSPEECH, DB3PT1KHZ};
/* RULE
about Glrcd_3pt1: */
/* Glrcd_3pt1 must be set to DB3PT1KHZ in a toll
* switch.  If Gloftyp is set to DBYES then
*      Glrcd_3pt1 must be DB3PT1KHZ
*/
if (Gloftyp == DBYES) then
begin
          Glrcd_3pt1 == DB3PT1KHZ;
end
```

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# Glrchotel

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrchotel | LR | DMuns12 |

### 1.1 Glrchotel

Global Office Parameter Glrchotel

### 1.2 Description

This global parameter specifies the next available unique aqhid that is to be used by the recent change programs to assign the aqhid attribute within the relation RLfc_hotel when a tuple is added and there is no available hotelids in the recent change relation called RLrc_hotel. If this global reaches 4095 and the relation RLrc_hotel is empty then the relation RLfc_hotel should have 4096 hotels equipped.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glrchotel.values:*/

Glrchotel is_in {0 thru 4095};
```

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# Glrcl_limit

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrcl_limit | FP | DMuchar |

### 1.1 Glrcl_limit

Global Office Parameter Glrcl_limit

### 1.2 Description

This parameter indicates the maximum number of operator recalls allowed a subscriber on a Directory Assistance call. If Gldasc_vendor equals FCDAS_CCI, this parameter is zero. This parameter must be zero unless there is at least one loaded SM in the office.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Import:*** "smconf.R"

***Checks:***
```
/* RULE about Glrcl_limit.values: */
if (current_pcr is_in sm_all) then
begin
    Glrcl_limit is_in { 0 thru 254 };

/* RULE about Glrcl_limit: */
if (Gldasc_vendor == FCDAS_CCI)
then
begin
```

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```
          Glrcl_limit == 0;
end
if (Glrcl_limit != 0 ) then
begin
          /* there exists at least on loaded SM in the office */
      PLSMCONF(GLOPSMDAAC) == true;
  end
  end
```

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# Glrcl_time

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrcl_time | FP | DMshort |

### 1.1 Glrcl_time

Global Office Parameter Glrcl_time

### 1.2 Description

This parameter indicates the number of 50 millisecond recall timing intervals to be used in Directory Assistance calls. If Gldasc_vendor equals FCDAS_CCI, this parameter is zero. This parameter must be zero unless there is at least one loaded SM in the office.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Import:*** "smconf.R"

***Checks:***
```
if (current_pcr is_in sm_all)
then
begin
/* RULE about Glrcl_time.values: */
Glrcl_time is_in {0 thru 32767};

/* RULE about Glrcl_time: */
if (Glrcl_time != 0) then
```

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```
begin
          /* there exists at least one loaded SM in the office */
          PLSMCONF(GLOPSMDAAC) == true;
          Gldasc_vendor != FCDAS_CCI;
end
end
```

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# Glrclk0uid

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrclk0uid | FP | DMcircuit |

### 1.1 Glrclk0uid

Global Office Parameter Glrclk0uid

### 1.2 Description

Provides the circuit name for the remote clock side zero. This parameter is of type DMCIRCUIT, and its value is determined in the same manner as any other peripheral circuit. This value must be printed in decimal format. If the RCLK is not equipped, then this parameter must be set to zero. The initial value of this parameter is set to zero in the file DBim86prdb.c.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glrclk0uid.values: */

        /* no check */ ;
```

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# Glrclk1uid

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrclk1uid | FP | DMcircuit |

### 1.1 Glrclk1uid

Global Office Parameter Glrclk1uid

### 1.2 Description

This global parameter provides the circuit name for the remote clock side one. This global parameter is of type DMCIRCUIT, and its value is determined in the same manner as any other peripheral circuit. This value must be printed in decimal format. If the RCLK is not equipped, then this parameter must be set to zero. The initial value of this parameter is set to zero in the file DBim86prdb.c

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* Populate on all SMs */
         for modatt in RLmodatt

         pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glrclk1uid.values: */

        /* no check */ ;
```

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# Glrcpercnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrcpercnt | LPFP | DMlong |

### 1.1 Glrcpercnt

Global Office Parameter Glrcpercnt

### 1.2 Description

This global parameter will be used in the SM or CMP to indicate how much of roll forward has been performed in the SM or CMP up until this point. The rangeof values this can take is between 200 - 0. Requires no population and is not affected by retrofit. Nor is retrofit affected by this parameter. System(DB) will initialize it to 200.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 200

***AM Initial Value:*** 200

***CMP Initial Value:*** 200

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* Populate on all SMs */
         for modatt in RLmodatt

         pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glrcpercnt.values: */

Glrcpercnt is_in {0 thru 200};
```

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# Glrcrcrit

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrcrcrit | FR | DMuchar |

### 1.1 Glrcrcrit

Reorder Critical Alarm

### 1.2 Description

This variable gives the critical alarm setting as Reorder Count Ratio (RCR).

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ODA and RC support all possible values. The default is 0. Minor, Major, or Critical Alarm if the RCR exceeds Glrcrminor, Glrcrmajor, or Glrcrcrit respectively.

Glrcrminor < Glrcrmajor < Glrcrcrit

such as:

```
Glrcrminor on-clause < Glrcrmajor on-clause;

Glrcrminor on-clause < Glrcrcrit on-clause;

Glrcrmajor on-clause < Glrcrcrit on-clause;
```

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard - FR */
```

***Checks:***

```
/* RULE about Glrcrcrit values:*/

    Glrcrcrit is_in {0 thru 255};
```

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# Glrcrmajor

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrcrmajor | FR | DMuchar |

### 1.1 Glrcrmajor

Reorder Major Alarm

### 1.2 Description

This variable gives the critical alarm setting as Reorder Count Ratio (RCR).

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ODA and RC support all possible values. The default is 0. Minor, Major, or Critical Alarm if the RCR exceeds Glrcrminor,Glrcrmajor, or Glrcrcrit respectively.

Glrcrminor < Glrcrmajor < Glrcrcrit

such as:

```
Glrcrminor on-clause < Glrcrmajor on-clause;
Glrcrminor on-clause < Glrcrcrit on-clause;
Glrcrmajor on-clause < Glrcrcrit on-clause;
```

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard - FR */
```

***Checks:***

```
/* RULE about Glrcrmajor values: */

Glrcrmajor is_in {0 thru 255};
```

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# Glrcrminor

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrcrminor | FR | DMuchar |

### 1.1 Glrcrminor

Reorder Minor Alarm

### 1.2 Description

This variable gives the minor alarm setting as Reorder Count Ratio (RCR).

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ODA and RC support all possible values. The default is 0. Minor, Major, or Critical Alarm if the RCR exceeds Glrcrminor,Glrcrmajor, or Glrcrcrit respectively.

Glrcrminor < Glrcrmajor < Glrcrcrit

such as:

```
Glrcrminor on-clause < Glrcrmajor on-clause;
Glrcrminor on-clause < Glrcrcrit on-clause;
Glrcrmajor on-clause < Glrcrcrit on-clause;
```

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard - FR */
```

***Checks:***

```
/* RULE about Glrcrminor values: */

   Glrcrminor is_in {0 thru 255};
```

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# Glrcstart

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrcstart | LPFP | DMlong |

### 1.1 Glrcstart

Global Office Parameter Glrcstart

### 1.2 Description

This global parameter contains the log file offset at which the next roll forward should start. No population required. This parameter is not affected by retrofit, nor is retrofit in any way affected by this parameter. System initials to '0'.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glrcstart.values: */

        /* no check */ ;
```

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# Glrcvbs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrcvbs | LR | DMbool |

### 1.1 Glrcvbs

Recent Change verbose option

### 1.2 Description

This global parameter Indicates the default option for printing one line summary of Recent Change inserts, updates, deletions and failures to the Receive-Only Printer (ROP) after a Recent Change transaction has completed. If this option is set to DBYES, all Recent Changes will be logged to the ROP unless the user specifically selects the verbose option as 'N' in menu RC or 'NVERBOSE' in APPTEXT. This replaced Glrcosl in 5E7(1).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofit to 5E7(1) set to the value of Glrcosl. Preserve the value across retrofits to 5E8(1) and later.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glrcvbs.values: */

    Glrcvbs is_in {DBYES, DBNO};
```

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# Glrdprs

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrdprs | FR | DMbool |

### 1.1 Glrdprs

Global Office Parameter Glrdprs

### 1.2 Description

This global parameter supports module growth. Initialize to 0.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glrdprs.values: */

            /* no check */ ;
```

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# Glrdtadas

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrdtadas | FR | DMda_tree |

### 1.1 Glrdtadas

Global Office Parameter Glrdtadas, RDTA digit analysis selector

### 1.2 Description

This global office parameter defines the Digit Analysis Selector (DAS) to be used to translate the output facility DNs specified in the EXC:RDTA TTY input message for the Remote Digital Test Access (RDTA) capability. The DAS specified will translate the DN for a 64 Kbps (Clear or Restricted) or 56 Kbps data call. If this parameter is populated (not equal to zero), then there should be exactly one tuple in the relation RLrc_das with RLrc_das.digtree equal to Glrdtadas and Glrdtasrnx must not equal zero. The parameter is populated on every SM in the office (SM redundant).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA should enforce that the LDIT pointed to by the DAS entered for this Global Parameter is populated on all loaded SMs in the office and any standard SMs containing CCS7 trunk ports. RC will not enforce the check.

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glrdtadas.values: */
Glrdtadas is_in {0 thru 99};
/* RULE about Glrdtadas: */
/* Verify that the DAS is valid */
if (Glrdtadas > 0) then
begin
        find == 1 rc_das in RLrc_das
```

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```
        where (rc_das.digtree == Glrdtadas);
        Glrdtasrnx > 0;
end
```

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# Glrdtapic

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrdtapic | FR | DMcarrid |

### 1.1 Fullname:

Global Office Parameter Glrdtapic

### 1.2 Description:

This parameter is used to store the preferred Inter-LATA Carrier ID for routing output data from a Remote Digital Terminal Access (RDTA) session in one LATA, over an Inter-LATA CCS7 (ISUP) trunk, to a Customer Service Center (CSC) in another LATA.

If the Inter-LATA Carrier ID is entered as 1, 2 or 3 characters, then the unspecified characters are '0'. As an example, if the user enters 12 as the Inter-LATA Carrier ID, then the 0 and 1st numbered elements are '0'.

```
Glcarrid[0] = '0'
Glcarrid[1] = '0'
Glcarrid[2] = '1'
Glcarrid[3] = '2'
```

This parameter replaces Glsf9dummy in 5e11.1, which was used for this purpose in the 5e9.1, 5e9.2, and 5e10.1 generics.

***Type:*** DB4STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** "\0"

***AM Initial Value:*** "NULL"

***CMP Initial Value:*** "NULL"

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** From 5e9.1, 5e9.2, or 5E10.1 to 5e11.1: Prepend an appropriate number of zeros to Glsf9dummy value to create a 4-digit Inter-LATA Carrier ID.

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glrdtapic.values */
Glrdtapic ~== "[0-9][0-9][0-9][0-9]" || Glrdtapic == "";
```

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```
/* RULE about Glrdtapic */
if (Glrdtapic != "") then
begin
Mrdta1: find == 1 fc_carr in RLfc_carr
        where (fc_carr.carrid == Glrdtapic);

Mrdta2: Glrdtadas > 0;
end
```

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# Glrdtasrnx

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrdtasrnx | FR | DMscrnidx |

### 1.1 Glrdtasrnx

Global Office Parameter Glrdtasrnx, RDTA screening index

### 1.2 Description

This global office parameter defines the screening index to be used by digit analysis during the translation of the output facility DNs specified in the EXC:RDTA TTY input message for the Remote Digital Test Access (RDTA) capability. The screening index specified will result in the DN being routed as a 64 Kbps (Clear or Restricted) or 56 Kbps data call. The parameter is populated on each SM in the office (SM redundant). If this parameter is populated (not equal to zero), then there should be exactly one tuple populated in RLrt_scrni.p where RLrt_scrni.screen_x equals Glrdtasrnx and Glrdtadas must not equal zero.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glrdtasrnx.values: */

        /* no check */ ;

/* RULE about Glrdtasrnx: */
if (Glrdtasrnx > 0) then
begin
        find >= 1 rt_scrning in RLrt_scrning
        where (rt_scrning.screen_x == Glrdtasrnx);
```

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```
        Glrdtadas > 0;
end
```

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# Glreconnlim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glreconnlim | FR | DMuns5 |

### 1.1 Fullname:

Global Office Parameter Glreconnlim

### 1.2 Description:

This global parameter specifies the maximum number of successful operator reconnect allowed for the Limit for Customer-Controlled Reconnect to LS/DA feature (98-5E-7059).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 31

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global parameter is controlled by Recent Change View 8.41.

***Retrofit Rules:*** The value of this global parameter should be preserved across a retrofit. When starting a new office with the 5E14 release, the parameter should be set to its default value.

***Default Rules:***
```
default = 31;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glreconnlim.values: */

Glreconnlim is_in {1 thru 31};
```

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# Glredstart

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glredstart | LPFP | DMlong |

### 1.1 Glredstart

Global Office Parameter Glredstart

### 1.2 Description

This global parameter contains the redundant log file offset at which the next roll forward should start. No population required. This parameter is not affected by retrofit, nor is retrofit in any way affected by this parameter. System initials to '0'.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* Populate on all SMs */
          for modatt in RLmodatt

          pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glredstart.values: */

        /* no check */ ;
```

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# Glregrecall

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glregrecall | FP | DMbool |

### 1.1 Glregrecall

Global Office Parameter Glregrecall

### 1.2 Description

If true the office is equipped with the indirect (register recall) version of capability j121, Feature Access during Speech. This version enables a subscriber to access an associated feature while engaged in a call by signaling a request for permission of dialing facilities and then dialing a digit string defined by the administration to access the feature. The only feature accessed for this generic is MCT. The value of parameter Glmct1 may be DBYES. Glregrecall is country dependent. It should have the value DBYES only if the administration has bought register recall. The only such administration at time of writing this is Saudi Arabia. Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* Populate on all SMs */
         for modatt in RLmodatt

         pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glregrecall.values: */

        /* no check */ ;
```

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# Glrejinter

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrejinter | FR | DMbool |

### 1.1 Fullname:

Global Office Parameter Glrejinter

### 1.2 Description:

This parameter indicates whether an inter-LATA call should be blocked on an IBNS R2 call that is blocked with cuckoo tone.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glrejinter values: */
```

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# Glrem_loss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrem_loss | FP | DMtsi_loss |

### 1.1 Glrem_loss

Global Office Parameter Glrem_loss

### 1.2 Description

This parameter is used to define the amount of decibel (dB) loss applied to remote calls by the time slot interchanger (TSI). It applys to all calls that traverse an umbilical link. This includes Inter-module calls on an ORM. If an RSM has an intra-RSM cluster call that gets backhauled over the T1 umbilical link, then the remote loss will apply to this call. This parameter is set in 0.5 dB increments. Range of values:

```
 min. LSS0_0 (0.0dB) to max. LSS15_0 (15.0 dB).
          LSS0_0 (0.0 dB)
          LSS0_5 (0.5 dB)
          LSS1_0 (1.0 dB)
          LSS1_5 (1.5 dB)
          LSS2_0 (2.0 dB)
                .
                .
                .
          LSS15_0 (15.0 dB)
```

In order to set the parameter to a value greater than 0.0, the far access remote (FAR) special feature (SFID 184) must be purchased and must be turned on (SFID 184 is set) for the office.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** LSS0_0

***AM Initial Value:*** LSS0_0

***CMP Initial Value:*** LSS0_0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = LSS0_0
```

***Distribution Rules:***

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```
for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glrem_loss.values: */

if ( current_pcr is_in sm_all ) then
begin
Glrem_loss is_in { LSS0_0,  LSS0_5,  LSS1_0,  LSS1_5,  LSS2_0,  LSS2_5,
                   LSS3_0,  LSS3_5,  LSS4_0,  LSS4_5,  LSS5_0,  LSS5_5,
                   LSS6_0,  LSS6_5,  LSS7_0,  LSS7_5,  LSS8_0,  LSS8_5,
                   LSS9_0,  LSS9_5,  LSS10_0, LSS10_5, LSS11_0, LSS11_5,
                   LSS12_0, LSS12_5, LSS13_0, LSS13_5, LSS14_0, LSS14_5,
                   LSS15_0};
end
```

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# Glreorgtag

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glreorgtag | LR | DMlong |

### 1.1 Glreorgtag

Global Office Parameter Glreorgtag

### 1.2 Description

Glreorgtag is a parameter used to hold the system tag for the time at which the DB hash reorganization process is to run. ODA does not need to populate this parameter. This parameter is set when the DB system process DBcmsys is initialized and is reset when the HM message SET:REORG,time=xx-yy is input.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** As long as the system goes through the initialization, the global parameter will be set up with a value, so there should be no work required for the mapping forward of this parameter value.

***Default Rules:*** default = 0;

***Distribution Rules:***

```
LR, standard
```

***Checks:***

```
        /* no check */
```

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# Glrepattempts

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrepattempts | FP | DMbool |

### 1.1 Glrepattempts

Global Office Parameter Glrepattempts

### 1.2 Description

This global parameter determines whether the repeated attempts for priority subscribers feature (30-01-0212) is active in this office. It is a country dependency and the parameter will be set according to the country in which the office is installed. DBYES for Saudi Arabia and Colombia. DBNO for most other countries. Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* Populate on all SMs */
         for modatt in RLmodatt

         pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glrepattempts.values: */

        /* no check */ ;
```

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# Glreplyblf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glreplyblf | FP | DMuns8 |

### 1.1 Glreplyblf

Global Office Parameter Glreplyblf

### 1.2 Description

This parameter tells how many RLREPLYBLF dynamic tuples should be allocated in each SM.

```
If (gltreeablf + glmoniablf) <= 42 then

     glreplyblf = gltreeablf + glmoniablf

else

     glreplyblf = 42 + (gltreeablf+ glmoniablf - 42) div 2
```

ODA, RC and ODBE are required to calculatethis parameter according to the formula above, after either all RLTREE_BLFand RLMONI_BLF tuples are allocated, gltreeablf and glmoniablf are generatedin ODA case, or after a RC/ODBE work is done on RLTREE_BLF/RLMONI_BLF relation to affect the gltreeablf/glmoniablf value. For RC only, ifa new calculated global parameter value is smaller than the current value,but not equal to zero, do not update it. Otherwise do update it.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** On retrofit, preserve existing value.

***Default Rules:*** default = 0;

***Distribution Rules:***

```
/* Populate on all SMs */

for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

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***Checks:***

```
if (current_pcr is_in sm_all) then
begin
/* RULE about Glreplyblf.values: */

Glreplyblf is_in {0 thru 255};
end
```

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# Glres_o

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glres_o | LR | DMlong |

### 1.1 Glres_o

Global Office Parameter Glres_o

### 1.2 Description

This global parameter provides the calibration adjustment for the TLWS resistive measurement test. This amount (in ohms) allows calibration of the DCTU measurement equipment to known levels. ODA should populate the default value for this parameter. When the switch is installed, craft personnel will determine the correct value for this parameter by creating an artificial fault on a line. This parameter will be modified until the returned results from the RESISTIVE test and the artificial fault agree.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting to the 5E5 generic, the value of this parameter needs to be taken from the global parameter Glcp8dummy. The value of Glres_o should be preserved for generic retrofits after 5E5.

***Default Rules:*** default = 0;

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glres_o.values: */

Glres_o is_in {-65535 thru 65535};
```

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# Glretrans

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glretrans | FP | DMuchar |

### 1.1 Fullname:

Global Office Parameter Glretrans

### 1.2 Description:

This parameter specifies the percentage of the threshold value for the ratio of information frames retransmitted to total information frames transmitted. This parameter should be populated in all the SMs with the GLISDNBASE software loadable package. Therefore, for SMs with the GLISDNBASE software loadable package, Glretrans must be a non-zero value. For the SMs without the GLISDNBASE software loadable package, Glretrans must be 0

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 5

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
if ( count ({lpconf in RLlpconfig
      where (( lpconf.smconfig == Glconfigname ) &&
             ( lpconf.package == GLISDNBASE ))
                                          }) == 0 )
then begin
      default = 0;
end
else begin
      default = 5;
end
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

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```
BCretrans:      if (current_pcr is_in sm_all) then
begin
/* RULE about Glretrans.values: */
Glretrans is_in {0 thru 5};

/* RULE about Glretrans: */
if ( Glretrans > 0 ) then
begin
        find == 1 lpconf in RLlpconfig
        where ( lpconf.smconfig == Glconfigname &&
                lpconf.package == GLISDNBASE );
end
else
begin
        find == 0 lpconf in RLlpconfig
        where ( lpconf.smconfig == Glconfigname &&
                lpconf.package == GLISDNBASE );
end

end
```

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# Glretrochk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glretrochk | LR | DMlong |

### 1.1 Glretrochk

Global Office Parameter Glretrochk

### 1.2 Description

This AM only global parameter is used by Database Retrofit software code for 5E9(2) and later software releases. It serves as a status bitmap to record the completion of all required Database Retrofit steps. Each bit represents a required step. The bit mask is defined in a DB local header to be used by a Database Retrofit check function. The purpose of having a status bitmap is to ensure all required Database Retrofit steps to be performed in the proper order.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** ODA should always initialize Glretrochk to the default value through a retrofit or a Large Terminal Growth.

***Default Rules:*** default = 0;

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glretrochk.values: */

            /* no check */ ;
```

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# Glretry

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glretry | LRFR | DMshort |

### 1.1 Glretry

Global Office Parameter Glretry

### 1.2 Description

This global parameter is used to turn the diagnostic retry on and off and to turn the retry output message on and off. The 3 values available will be the following:

```
  0 : which is retry off (RETRYOFF)

      (output message will also be off),

  1 : retry on, output message off (RETRYON_NM)

      (retry on no message)

  2 : retry on, output message on (RETRYON_V)

      (retry on verbose)
```

This parameter will only be changed by odbe and will be read by dg to determine if the retry should be done. It will be used by both the SM and CM diagnostics which are SM and AM processes. On retrofit, preserve existing value.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2

***AM Initial Value:*** 2

***CMP Initial Value:*** 2

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 2;
```

***Distribution Rules:***

```
        /* standard */
```

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***Checks:***

```
/* RULE about Glretry.values: */

    Glretry is_in {0 thru 2};
```

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# Glretrysrv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glretrysrv | FR | DMuns3 |

### 1.1 Glretrysrv

Retry SERV message

### 1.2 Description

This global parameter determines how many times the switch will attempt to resend a PRI B-channel SERV messages if a PRI B-channel SERV ACK is not received from the other end.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter is updated by RC and ODA on view 8.1.

***Retrofit Rules:*** Preserve over retrofit.

***Default Rules:***
```
default = 2;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* Rule about Glretrysrv.values */

Glretrysrv is_in { 1 thru 4 };
```

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# Glretsm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glretsm | FP | DMlong |

### 1.1 Glretsm

Global Office Parameter Glretsm

### 1.2 Description:

Glretsm is used by ODA to determine if a SM will retrofit to a software configuration other than the pre-retrofit software configuration of the SM. The allowable values and their meaning are:

| pre-retrofit Glconfigname | Glretsm value | post-retrofit Glconfigname |
|---|---|---|
| CNFG000 | 0 | CNFG000 |
| CNFG000 | 1 | CNFG001 |
| CNFG000 | 2 | CNFG002 |
| CNFG000 | 3 | CNFG003 |
| CNFG001 | 0 | CNFG001 |
| CNFG001 | 1 | CNFG000 |
| CNFG001 | 2 | CNFG002 |
| CNFG001 | 3 | CNFG003 |
| CNFG002 | 0 | CNFG002 |
| CNFG002 | 1 | CNFG000 |
| CNFG002 | 2 | CNFG001 |
| CNFG002 | 3 | CNFG003 |
| CNFG003 | 0 | CNFG003 |
| CNFG003 | 1 | CNFG000 |
| CNFG003 | 2 | CNFG001 |
| CNFG003 | 3 | CNFG002 |
| CNFG2K00 | 0 | CNFG2K00 |

The value of DMsmconfig, for each SM tuple in the AM relation RLsmconf, must be set to correspond to the SM parameter, Glconfigname, of each SM.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

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***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***

```
chk_apperm.R
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
        /* RULE about Glretsm.values: */
        Glretsm is_in {0 thru 3};

        /* A VCDX SM must be CNFG003 or CNFG2K00 starting in 5E11.
         * To prevent unnecessary changes, the value of Glretsm should
         *  always be 0 for a VCDX.
         */
        if (c_aperm(PVMSKVCDX,CONFIGMAX) == true) then
        begin
                Glretsm == 0;
        end

        /* Glretsm must be 0 on a SM-2000. */
        if (Glconfigname == CNFG2K00) then
        begin
                Glretsm == 0;
        end
end
```

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# Glrev_man

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrev_man | FR | DMbool |

### 1.1 Glrev_man

Global Office Parameter Glrev_man

### 1.2 Description

This global parameter contains a boolean value which signifies whether or not revertive calls should be completed manually or automatically. If Glrev_man is true, revertive calls must be completed manually, otherwise they are completed automatically by the switch.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glrev_man.values: */

            /* no check */ ;
```

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# Glrfowflg

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrfowflg | LRFR | DMbool |

### 1.1 Glrfowflg

Global Office Parameter Glrfowflg

### 1.2 Description

Roll Forward Flag parameter used by CORC recovery.

```
If DBrfowflg is set (DBYES), the DBM will self-correct

             the errors during the CORC roll forward.

If DBrfowflg is not set (DBNO), the DBM will not correct

             any errors during the CORC roll forward.
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glrfowflg.values: */

            /* no check */ ;
```

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# Glrglead

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrglead | FR | DMrglead |

### 1.1 Glrglead

Global Office Parameter Glrglead

### 1.2 Description

This global parameter is used by Generalized Ringing to indicate the wire which the standard ringing cadence uses.

```
DMTIPLEAD means ringing is normally provided on the tip lead.

DMRNGLEAD means ringing is normally provided on the ring lead.
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DMRNGLEAD

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DMRNGLEAD;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glrglead.values: */

Glrglead is_in {DMTIPLEAD, DMRNGLEAD};
```

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# Glrgtrip

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrgtrip | FR | DMrgtrip |

### 1.1 Glrgtrip

Global Office Parameter Glrgtrip

### 1.2 Description

This global parameter is used by Generalized Ringing to indicate the Ringing Trip Threshold required to be set at the ISLU-Z line card. There are four valid values. Ring trip is detected when frequency being monitored differs in the amount that it is above and below the frequency threshold.

DMRTRIPO means ring trip is detected when the difference is 14 counts

DMRTRIP1 means 16 counts; DMRTRIP2 means 18 counts

DMRTRIP3 means 20 counts. The domestic value is DMRTRIP3

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DMRTRIP3

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DMRTRIP3;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glrgtrip.values: */

Glrgtrip is_in {DMRTRIP0, DMRTRIP1, DMRTRIP2, DMRTRIP3};
```

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# Glrgtyp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrgtyp | FR | DMrgtyp |

### 1.1 Glrgtyp

Global Office Parameter Glrgtyp

### 1.2 Description

This global parameter is used by Generalized Ringing to indicate which wire that the standard ringing cadence uses.

DMERTHBK means earth backed ringing is being provided

DMBATTBK means battery backed ringing is being provided.

The domestic value is DMBATTBK.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DMBATTBK

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DMBATTBK;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glrgtyp.values: */

Glrgtyp is_in {DMERTHBK, DMBATTBK};
```

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# Glrgvolt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrgvolt | FR | DMshort |

### 1.1 Glrgvolt

Global Office Parameter Glrgvolt

### 1.2 Description

This global parameter is used by Generalized Ringing as the output ringing voltage used by the RG. Glrgvolt is specified in RMS volts.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 90

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 90;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glrgvolt.values: */

            /* no check */ ;
```

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# Glrhg_cnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrhg_cnt | FP | DMushort |

### 1.1 Glrhg_cnt

Global Office Parameter Glrhg_cnt

**Defines:**
db/DMtmslnk.h

### 1.2 Description:

Contains the number of Relative Hunt Groups for an SM. For SMs, this parameter should always contain the value 1. For an SM-2000, it contains the number of NLI2s equipped on the SM divided by 2. Or, it contains the number of ENLIs/NLI1s equipped on the SM divided by 2. For SM-2000s, this value will be 0 for VCDX offices. For SMs, this value will be 1 for VCDX offices.

This value should remain intact during a Generic Retrofit.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1

***AM Initial Value:*** 1

***CMP Initial Value:*** 1

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:*** None

***Distribution Rules:***

```
        /* Populate on all SMs */

        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Import:***
chk_apperm.R,

cktdefs.R

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***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glrhg_cnt.values: */
if ( (c_aperm(PVMSKVCDX, CONFIGMAX) == true) &&
     ( SM2000(current_pcr) ) ) then
begin
        Glrhg_cnt == 0;
end
else
begin
        Glrhg_cnt is_in {1 thru 24};
end

end

/* RULE about Glrhg_cnt: */

function func() returning boolean
begin
        rhg_cnt = 0;

        find == 1 modatt in RLmodatt
        where (modatt.module == current_pcr)
        when_found
                if (modatt.unittype is_in {SMSM2000, SMSM2005}) then
                begin
                        rhgh_cnt = 0;
                        for lnk_use in RLlnk_use on  current_pcr
                        where (lnk_use.use == TS_NLI)
                        begin
                                rhgh_cnt = rhgh_cnt + 1;
                                if (lnk_use.tmslnk_1 != $PCNULLTMS) then
                                begin
                                        rhgh_cnt = rhgh_cnt + 1;
                                end
                        end
                        rhg_cnt = rhgh_cnt/2;
                end
                else
                begin
                        rhg_cnt = 1;
                end
        assert(Glrhg_cnt == rhg_cnt);
        return true;
end

if (current_pcr is_in sm_all) then
begin

func();
```

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```
end
```

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# Glrimax

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrimax | LRFR | DMrimax |

### 1.1 Fullname:

Global Office Parameter Glrimax - maximum number of allowed route indices per office

### 1.2 Description:

This parameter contains the maximum number of allowed route indices (RTRIs and MCRIs) per office.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 3617

***AM Initial Value:*** 3617

***CMP Initial Value:*** 3617

***RC/ODA Rules:*** This parameter is supported by RC and ODA. The value of this parameter is established by ODA and can be updated via RC View 8.1. The parameter is set to:

```
     3617, default
     4095, when the office is provisioned with the Increase Number of
           Trunk Groups Feature (SFID172) on RC View 8.22, and
    16382, when the office is provisioned with the LDP Routing
           Enhancements Feature (SFID289) on RC View 8.22.

  if (Glrimax == 4095) then
          SFID172 = DBYES;
  if (Glrimax == 16382) then
  begin
          SFID289 = DBYES;
  end
```

***Retrofit Rules:*** This value should be preserved during a generic retrofit.

***Default Rules:***

```
default = 3617;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glrimax.values: */
```

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```
Glrimax is_in {3617, 4095, 16382};
```

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# Glringback

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glringback | FP | DMbool |

### 1.1 Fullname:

Global Office Parameter Glringback

### 1.2 Description:

This parameter is used to suppress automatic ringback for the controlling party of a BRCS 3-way call. If Glringback = DBNO, 3-way calling ringback is allowed for all ports on that SM. If Glringback = DBYES, 3-way ringback is suppressed for all ports on that SM. This parameter will be changed by the operating company.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** ODA must retain its value across retrofit

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glringback.values: */

        /* no check */ ;
```

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# Glringtot

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glringtot | FR | DMshort |

### 1.1 Glringtot

Global Office Parameter Glringtot

### 1.2 Description

This global parameter indicates how long ringing should continue if no answer, abandon or overload occurs.

For Example:

Glringtot = 5 means ring for 5 minutes (if answer, abandon, or overload does not occur) then time out unconditionally. The default of zero means 'continue ringing forever,' that is, not timeout. The maximum value of the parameter is 32,767 (because it is a short). The value of the parameter always indicates number of minutes before timeout. '1' is not valid - two minutes is the shortest ringing time allowed.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glringtot.values: */

   Glringtot is_in {0 thru 32767};
```

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# Glrlctim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrlctim | FR | DMshort |

### 1.1 Glrlctim

Global Office Parameter Glrlctim

### 1.2 Description

Glrlctim is the timer set while waiting for the CCS release complete message after sending the release message (ISUP only). This is a timer for the overall release sequence for ISUP7. Glrlctim is specified in seconds. The value should be the same in every SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 60

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA should populate with default value for new office.

***Retrofit Rules:*** ODA should preserve value from database during retrofits and growths.

***Default Rules:*** default = 60;

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glrlctim.values: */

    Glrlctim is_in {45 thru 75};
```

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# Glrlgtim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrlgtim | FR | DMshort |

### 1.1 Glrlgtim

Global Office Parameter Glrlgtim

### 1.2 Description

Glrlgtim is the timer set while waiting for the CCS release guard message (CCIS6/TUP7 protocols) OR waiting for the CCS release complete after sending the CCS released message (ISUP only). Glrlgtim is specified in seconds. The value should be the same in every SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA should populate with default value for new office.

***Retrofit Rules:*** ODA should preserve value from database during retrofits and growths.

***Default Rules:*** default = 10;

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glrlgtim.values: */

    Glrlgtim is_in {4 thru 15};
```

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# Glrlnoc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrlnoc | FP | DMlnoc |

### 1.1 Glrlnoc

Global Office Parameter Glrlnoc

### 1.2 Description

This parameter gives the next available lnoc to be used when adding a tuple to RLfcnpamap. For initialization and retrofit, Glrlnoc will equal the highest assigned lnoc that appears in RLfcnpamap (excluding 12,799) plus 1. In RLfcnpamap, an lnoc of 12,799 indicates a terminating NPA-NXX only; when Glrlnoc is set to 12,799, no more lnocs may be assigned. Glrlnoc is Group Partitioned, restricted to OSPS SMs and PSMs only; that is, SMs with grp_type = GPD_OPRT and grp_id = 2 (see RLdb_gpdus.P).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Populate on all SMs */

for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
      /* RULE about Glrlnoc.values: */
      Glrlnoc is_in {0 thru 12799};
end
```

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# Glrmsopt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrmsopt | LR | DMbool |

### 1.1 Glrmsopt

Global Office Parameter Glrmsopt

### 1.2 Description

This global parameter is used by the RMS-D3 system process in the AM, and will be set to DBYES when the RMS-D3 X.25 data link is brought up using RC/V. ODD will initialize it to DBNO.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** 0

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glrmsopt.values: */

            /* no check */ ;
```

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# Glrnaann

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrnaann | FR | DMbool |

### 1.1 Glrnaann

Ring/No Answer Announcement Activation

### 1.2 Description

CCS Ring/No answer announcement prompt activation indicator for DIOR sequence call enhancements.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5E9(1) or 5e9(2), this parameter must be set to the value in Gloff2{7}.

***Default Rules:*** default = DBNO;

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glrnaann.values: */

            /* no checks */
```

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# Glrng_freg

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrng_freg | FP | DMshort |

### 1.1 Glrng_freg

Global Office Parameter Glrng_freg

### 1.2 Description

This parameter indicates the frequency to be used when applying ringing from the high level service circuit and the RG. The default value to use for domestic is 20. When an ISLU-Z is populated, the domestic default should be zero.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** 20

***CMP Initial Value:*** 20

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 20;
```

***Distribution Rules:***
```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
/* RULE about Glrng_freg.values: */

Glrng_freg is_in {0 thru 65000};
end
```

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# Glrngbktyp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrngbktyp | FR | DMmcdring |

### 1.1 Glrngbktyp

Global Office Parameter Glrngbktyp

### 1.2 Description

This global parameter indicates the distinctive ringing pattern used for ringback ONLY for the GENERALLY AVAILABLE case, when a LASS AC or LASS AR feature is not explicitly assigned to the line. It should initially be populated with DR_C.> Distinctive ringing pattern G, DR_G, is not used in generics 5E5(1) and beyond.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DR_C

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DR_C;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glrngbktyp.values:*/

Glrngbktyp is_in {DR_A, DR_B, DR_C, DR_D};
```

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# Glrnmopt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrnmopt | LR | DMbool |

### 1.1 Glrnmopt

Global Office Parameter Remote Network Management Link Option Glrnmopt

### 1.2 Description

This global office parameter defines whether or not the office has a direct link to Regional Network Management Center (RNMC). DBYES if the office has an RNMC link. DBNO if the office does not have an RNMC link.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** The following is an ODA requirement for initial or growth offices: If Glrnmopt is set to DBYES, an entry of 'SDL05' must be entered as a device type in the Flexible IOP list of the ECDOPT forms. SDL05 is the Synchronous Data Link for RNMS.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glrnmopt.values:*/

            /* no check */ ;
```

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# Glrouterec

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrouterec | FR | DMbool |

### 1.1 Glrouterec

Global Office Parameter Glrouterec

### 1.2 Description

This is the route number recording bit. When it is set, it results in a special service call AMA record being made for the inward call initiated by the OSPS operator via the route# key. The number entered in the route# field shall be recorded in the special service call AMA record. 'Inward call' in this case means the call from the OSPS to an external operator system.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glrouterec.values:*/

/* no check */ ;
```

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# Glrpbtim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrpbtim | LR | DMshort |

### 1.1 Glrpbtim

Global Office Parameter Glrpbtim

### 1.2 Description

Glrpbtim indicates, in seconds, the value used for the cyclic timer which determines the time between cycles of the audit that checks this office's band status data against the network's band status data. This parameter is used only when the office contains CCS trunks as shown when one or more tuples of RLtr_trkg have in_sigtype or out_sigtype set to DBISUP7, DBTUP7 or DBCCIS6.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 5

***CMP Initial Value:*** 5

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** ODA should populate with default during retrofits and growths.

***Default Rules:*** default = 5;

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glrpbtim.values: */

   Glrpbtim is_in {1 thru 1440};
```

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# Glrpctfree

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrpctfree | FR | DMlong |

### 1.1 Glrpctfree

redundant percent free ODD,s.

### 1.2 Description

Gives the percent of free space desired in the SM redundant ODD (memory equippage permitting). This parameter is used in conjunction with Glmaxodd. If 100/(100 - Glrpctfree) times the data space required by DBGEN exceeds Glmaxodd, the ODD size is set to Glmaxodd and an appropriate warning message is printed.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** ---

***SM Initial Value:*** 30

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 30;
```

***Distribution Rules:***
```
/* standard  */
```

***Checks:***
```
/*RULE about GLrpctfree.values: */

GLrpctfree is_in {1 thru 99};
```

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# Glrpcutmr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrpcutmr | FR | DMuns4 |

### 1.1 Glrpcutmr

RPCU timer global office parameter.

### 1.2 Description

The Glrpcutmr global parameter is used by the access manager to wait for a RELEASE COMPLETE by the RPCU in the disconnect area.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBYES

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***
This parameter is fully supported by RC.

***Retrofit Rules:***

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Import:***
```
usp5defs.R,

chk_apperm.R
```

***Checks:***
```
/* RULE about
Glrpcutmr: */
        if (c_aperm(PVMSKWNC, CONFIGMAX) == true ) then
        begin
                  Glrpcutmr is_in {1 - 10};
        end
```

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```
else
begin
          Glrpcutmr == 0;
end
```

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# Glrrosps

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrrosps | LRFR | DMuns8 |

### 1.1 Glrrosps

Global Office Parameter Glrrosps

### 1.2 Description

This global parameter indicates if rerouting is in progress in this office. It is used internally by OSPS Rerouting call processing code. It contains the total number of serving teams in this office that have their call traffic rerouted. This parameter is kept up-to-date by the OSPS auto-reconfiguration process (AUautrec) and Immediate Interflow Activation and Deactivation RC by setting it to the value of the sum of all the num_on attributes in the static relation RLdistid_rr whenever Rerouting is activated or deactivated.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glrrosps.values:*/

Glrrosps is_in {0 thru 128};
```

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# Glrrsncg

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrrsncg | LRFR | DMbool |

### 1.1 Glrrsncg

Global office parameter Glrrsncg.

### 1.2 Description

This Global Parameter will indicate whether this office acts as an STP for any other office. The meaning of the values in this global parameter are as follows:

```
Value   Meaning
-----   -------
DBNO    STP functionality has not been sold
DBYES   STP Functionality has been sold to this customer.
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** None.

***Retrofit Rules:*** None.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
/* standard */
```

***Import:***

```
chk_apperm.R
```

***Checks:***

```
/* RULE about TP permitted by office type */
if (c_aperm(PVOSS7STP,CONFIGMAX) == false)
then
begin
          Glrrsncg == DBNO;
end
```

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# Glrsclong

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrsclong | FR | DMshort |

### 1.1 Glrsclong

Global Office Parameter Glrsclong

### 1.2 Description

Glrsclong is the time interval to wait before resending a CCS reset-circuit signal (CCIS6/TUP/ISUP protocols) when failing to receive an acknowledgement in response to the initial CCS reset circuit signals sent at intervals defined by Glrscshort. If an acknowledgement for the signal is not received within the Glrsclong time interval, the sending of the reset circuit signal will continue at the Glrsclong time interval until maintenance intervention occurs. This parameter is used only when the SM contains CCS trunks as shown when one or more tuples of RLfc_trunk have in_sigtype or out_sigtype set to DBISUP7, DBTUP7 or DBCCIS6.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 180

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA should populate with default value for new office but preserve value from database during retrofits and growths

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 180;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glrsclong.values:*/

Glrsclong is_in {120 thru 1800};
```

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# Glrscshort

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrscshort | FR | DMshort |

### 1.1 Glrscshort

Global Office Parameter Glrscshort

### 1.2 Description

Glrscshort is the time interval, in seconds, to wait before resending a CCS reset-circuit signal (CCIS6/TUP/ISUP protocols) when failing to receive the acknowledgement in response to the initial CCS reset circuit signal sent. ODA should populate with default value for new office but preserve value from database during retrofits and growths. This parameter is used only when the SM contains CCS trunks as shown when one or more tuples of RLfc_trunk have in_sigtype or out_sigtype set to DBISUP7, DBTUP7 or DBCCIS6.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA should populate with default value for new office but preserve value from database during retrofits and growths

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 10;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glrscshort.values:*/

Glrscshort is_in {4 thru 15};
```

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# Glrsm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrsm | FP | DMmodule |

### 1.1 Glrsm

Global Office Parameter Glrsm

### 1.2 Description

For RSM, IM number of host, else 0. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* Populate on all SMs */
          for modatt in RLmodatt
          pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glrsm.values: */

        /* no check */ ;
```

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# Glrsmtype

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrsmtype | LRFP | DMrsmtype |

### 1.1 Glrsmtype

Global Office Parameter Glrsmtype

### 1.2 Description

This global parameter indicates which type of MMRSM is located in the office. For the AM, it will contain one of two types which may be remoted (SM24CHT1 or SM30CCITT). The copy of Glrsmtype in the AM is not changeable by recent change. For an LSM, it will be set to indicate that there is no associated MMRSM (SMNOTRSM). For an HSM or an RSM it will be identical to the copy that exists in the AM. This value is closely linked to the global parameter Glimtype. When Glimtype is set to indicate a regular SM, Glrsmtype must be set to SMNOTRSM. When Glimtype is set or changed to RSM or HSM, Glrsmtype must be set first to SM24CHT1 or SM30CCITT based upon the value of Glrsmtype in the AM. Currently, there are no requirements which state that more than one type of MMRSM can exist in the same office and such requirements are not likely.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** SMNOTRSM

***AM Initial Value:*** SMNOTRSM

***CMP Initial Value:*** SMNOTRSM

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* Populate on all SMs */

          for modatt in RLmodatt

          pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glrsmtype.values: */

Glrsmtype is_in {SM24CHT1, SM30CCITT, SMNOTRSM};
```

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# Glrt_carr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrt_carr | FP | DMbcarid |

### 1.1 Glrt_carr

Global office parameter Glrt_carr.

***Defines:*** db/DMcarr_val.h

### 1.2 Description

Specifies the route field carrier identification number in binary format.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10000

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** On the RC/ODA form, #NULL_BCARID is mapped to unknown.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = $NULL_BCARID;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parameters, so FP is specified */
/* here.  The group partitioning should be:               */
/*      RLdb_gpdus.grp_type = GPD_OSPS                    */
/*      RLdb_gpdus.grp_id   = 1                           */
pcrlist = get_gpd_pcrlist (GPD_OSPS,1);
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
        /* RULE about Glrt_carr.values: */
```

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```
        Glrt_carr is_in {0 - $FGDMAXBCAR, $NULL_BCARID};
        /* RULE about Glrt_carr: */
        if (Glrt_carr != $NULL_BCARID) then
        begin
                let str() = itoa(Glrt_carr);
                let len() = 4 - length(str());
                let carr() = (len() == 0) ? str() :
                                strcat(substr("0000", 0, len()), str());
                find == 1 fc_carr in RLfc_carr
                where (fc_carr.carrid == carr());   /* 9.1 */
        end
end
```

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# Glrt303cnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrt303cnt | FP | DMushort |

### 1.1 Fullname:

The count of TR303 RTs with an eqstat of SMOPER or SMGROW on this Switch Module (SM).

### 1.2 Description:

This global parameter is the count of operation or grow TR303 Remote Terminals on an IDCU on this SM. This number is determined by counting the RLcktdata tuples in this SM of the tuples which have a circuit type of PCRDT303 and an equippage state of SMOPER or SMGROW.

This count is used by recent change in properly maintaining and updating the Glrtlb, Glrtmsgbuf, and Glrteila global parameters (whose values are based entirely on the number of operational/grow TR303 RTs in the SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** TMrt303cnt,

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
```

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```
/* RULE about Glrt303cnt: */

/* runslow added due to linear search of CKTDATA and excessive cpu usage */
if (runslow) then
begin

find == Glrt303cnt cktdata in RLcktdata on  current_pcr
where (cktdata.type == PCRDT303 &&
    cktdata.utype is_in {SMIDCU, SMDNU_S} &&
    cktdata.eqstat is_in {SMGROW, SMOPER});
end

for modatt in RLmodatt
where (modatt.module is_in sm_all)
begin
        if (modatt.unittype is_in {SMSM2000, SMSM2005}) then
        begin
                Glrt303cnt is_in {0 thru 240};
        end
        else
        begin
                Glrt303cnt is_in {0 thru 160};
        end
end

end
```

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# Glrtcd_ofc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrtcd_ofc | LRFR | DMbool |

### 1.1 Glrtcd_ofc

Real Time Call Details Office Option

### 1.2 Description

This global parameter identifies whether the Real Time Call Details Office Option is set.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***TRIGGER:*** AMdctrig

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***
```
/* if ( Glrtcd_ofc == DBYES ) then
          SFID245 == DBYES;*/
```

***Retrofit Rules:*** /* None */

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* AM-SM Redundant */
```

***Checks:***
```
if ( Glrtcd_ofc == DBYES ) then
                   Glfcafmt == AMNAR;
            if ( Glrtcd_ofc == DBYES ) then
                   Glprtcd != 0;
```

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# Glrtcdalrm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrtcdalrm | LRFR | DMbool |

### 1.1 Glrtcdalrm

Real Time Call Details Alarm Indicator

### 1.2 Description

This global parameter identifies whether the Real Time Call Details Alarms (RTCDALRM) should be invoked upon the hitting of the RTCD Stand-Alone Billing Memory thresholds.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** /* None */

***Retrofit Rules:*** /* None */

***Default Rules:***

```
default = DBYES;
```

***Distribution Rules:***

```
        /* AM-SM Redundant */
```

***Checks:***

```
        /* None */
```

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# Glrteila

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrteila | FP | DMushort |

### 1.1 Fullname:

Count of rlRTEILA tuples present in SM

### 1.2 Description:

This global parameter contains the number of rlRTEILA tuples that should be present in a given SM. This is done to allow engineering and auditing of rlRTEILA.

The number of rlRTEILA tuples is nominally based on the number of TR303 RTs present in the SM.

If there are no TR303 RTs in the SM, then Glrteila is 0.

Otherwise, Glrteila

```
((AVTR303RTMAX * 4) + 2)
```

to a maximum value of 642 for SM and 972 for SM-2000. This limits the number of TR303 RTs to 160 for SM and 240 for SM-2000.

Note that the count of operational/grow TR303 RTs in the SM is available in the Glrt303cnt global parameter.

Note that the maximum number of TR303 RTs on an SM or SM-2000 is AVTR303RTMAX.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter should be administered by ODA and TM triggers. It is not administered by RC.

***Retrofit Rules:*** This count should be recalculated during a retrofit based upon the poprule checks for the new generic.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

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```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
if ( current_pcr is_in sm_all ) then
begin
/* there are no TR303 RTs, then Glrteila must equal 0 */
if (Glrt303cnt == 0) then
begin
        Glrteila == 0;                  /* TM trigger */
end

for modatt in RLmodatt
begin
    if (modatt.module is_in sm_all) then
    begin
        let RT303CNT = Glrt303cnt on modatt.module;
        if (modatt.unittype is_in {SMSM2000, SMSM2005}) then
        begin
                /* SMSM-2000ndash;2000 */

                if ((RT303CNT > 0) && (RT303CNT <= 240)) then
                begin
                    /* For TR303 RTs 1 to 240 use the algorithm */
                    Glrteila on modatt.module == (RT303CNT * 4) + 2;
                end
                else
                begin
                        if (RT303CNT > 240) then
                        begin
                                /*
                                 *  For more than 240 TR303 RTs,
                                 *  than Glrteila equals 962.
                                 */
                                Glrteila on modatt.module == 962;
                        end
                end

              Glrteila on modatt.module is_in {0 thru 962};
        end
        else
        begin
              /* SM */
              if ((RT303CNT > 0) && (RT303CNT <= 160)) then
              begin
                    /* For TR303 RTs 1 to 160 use the algorithm */
                    Glrteila on modatt.module == (RT303CNT * 4) + 2;
              end
              else
              begin
                    if (RT303CNT > 160) then
                    begin
                          /*
```

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```
                        *  For more than 160 TR303 RTs,
                        *  than Glrteila equals 642.
                        */
                        Glrteila on modatt.module == 642;
                  end
            end

            Glrteila on modatt.module is_in {0 thru 642};
      end
   end
end
end
```

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# Glrtgmd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrtgmd | LR | DMbool |

### 1.1 Glrtgmd

Global Office Parameter Glrtgmd

### 1.2 Description

This global parameter controls routing module assignment in an office. The default value (DBYES) causes restrictive routing module assignments. Assignment of a hundreds group to an remote site module (RSM/ORM/TRM) as the routing module will only be allowed in the restrictive case if all the DNs in the hundreds group are physically located on the same remote site (same cluster/site ID). The non-restrictive value of this parameter (DBNO) will allow a RSM/ORM/TRM to be the routing module for any hundreds group, regardless of where the DNs in the hundreds group are located in the office. See population rules for RTDNMOD for further description.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** 0

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBYES;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glrtgmd.values: */

        /* no check */ ;
```

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# Glrtlb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrtlb | FP | DMushort |

### 1.1 Fullname:

Count of rlRTLB tuples present in SM

### 1.2 Description:

This global parameter contains the count of rlRTLB tuples which are present in a given SM. This is done to allow engineering and auditing of rlRTLB.

For an SM loaded with the ID303APP (IDCU) or ISDNBASE (ATS) loadable packages:

```
    The number of rlRTLB tuples is nominally based on the number
    of TR303 RTs present in the SM, a fixed value, 12, for
    Automatic Terminal Setup software (ATS), and the incremental
    global parameter (Glirtlb).

    If there are no TR303 RTs in the SM then Glrtlb is 12 + Glirtlb.
    This is the default number of tuples required for ATS.

    Note that the nomenclature xxx:yyy means the value for both
    the SM (xxx) and SMSM-2000ndash;2000 (yyy). The total number
    of rlRTLB tuples when TR303 RTs are present is determined by:
        4 (A) * Glrt303cnt (B) + 22:54 (C) + 12 (D) + Glirtlb up
        to the maximum of 211:359 (limit of rlRTLB tuples in SM)
        which is then rounded up to the next power of (511).

        Where:
           A = Number of TR303 TPs per each additional RT
           B = Number of TR303 RTs (Glrt303cnt)
           C = Maximum number of TPs statistically possible for
               1 RT: 1 (a) + 34:66 (b) - 11 (c) + 2 (d) - 4
              (e) = 22:54
                 a = Maximum TR303 rlRTLB tuples set aside for
                     recovery
                 b = Maximum number of TR303 TPs per SM possible
                 c = The maximum number of concurrent TR303 manual
                     processes is not realistic, so take them away
                 d = Realistic maximum number of TR303 manual jobs
                     to a given RT
                 e = Number of TR303 TPs per each additional RT
           D = Number of ATS rlRTLB tuples

For an SM not loaded with the ID303APP (IDCU) and ISDNBASE (ATS)
loadable packages:

           The number of rlRTLB tuples is 0.
```

Note that the number of operational/grow TR303 RTs in the SM is available in the Glrt303cnt global parameter.

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Note that the customer can increase the value of this global parameter by increasing the incremental global parameter (Glirtlb).

The fixed value of 12 tuples is to provide ATS with 12 RTLB tuples (two for each ATS_DCOLL terminal process with six maximum processes).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter should be administered by ODA and TM triggers. It is not administered by RC.

***Retrofit Rules:*** This count should be recalculated during a retrofit based upon the poprule checks for the new generic.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***

```
env.R
```

***Checks:***

```
/* let MAX_TUPLES = DBQNRTLB - DBSFRTLB; */
let MAX_TUPLES = 511 - 0;

/* RULE about Glrtlb.values: */

if (current_pcr is_in { 1 thru 192 }) then
begin
        Glrtlb is_in {0 thru MAX_TUPLES};
end

/* RULE about Glrtlb: */

if (runucv) then
begin
if (current_pcr is_in { 1 thru 192 }) then
begin
```

```
if ((count({lpconf in RLlpconfig
        where(lpconf.smconfig == Glconfigname &&
              lpconf.package == GLID303APP)}) > 0) ||
   (count({lpconf in RLlpconfig
        where(lpconf.smconfig == Glconfigname &&
              lpconf.package == GLISDNBASE)}) > 0)) then
/*
 *  SM is loaded with ID303APP loadable package (IDCU) or
 *  ISDNBASE loadable package (ATS).
 */
begin
   let ATS_TUPLES = 12;

   if (Glrt303cnt == 0) then
   begin
        /* There are no operational/growth TR303 RTs. */

        /*
         * If the calculated value exceeds the maximum
         * number of tuples allowed (MAX_TUPLES), set the
         * global parameter to the maximum number of
         * tuples.
         */
        if (ATS_TUPLES + Glirtlb < MAX_TUPLES) then
        begin
                Glrtlb == ATS_TUPLES + Glirtlb;
        end
        else
        begin
                Glrtlb == MAX_TUPLES;
        end
   end
   else
   begin
       /* There is at least 1 operational/growth TR303 RT. */
        find == 1 modatt in RLmodatt
        where (modatt.module == Gl_pcrid)
        when_found
        begin
           if (modatt.unittype is_in {SMSM2000, SMSM2005})
           then
           begin
                /* SM-2000 */

                /*
                 * If the calculated value exceeds the
                 * maximum number of tuples allowed (
                 * MAX_TUPLES), set the global parameter
                 * to the maximum number of tuples.
                 */
                if (4 * Glrt303cnt + 54 +
                    ATS_TUPLES + Glirtlb < MAX_TUPLES)
                then
                begin
```

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```
                                Glrtlb == 4 * Glrt303cnt + 54 +
                                          ATS_TUPLES + Glirtlb;
                        end
                        else
                        begin
                                Glrtlb == MAX_TUPLES;
                        end
                    end
                    else
                    begin
                        /* SM */

                        /*
                         * If the calculated value exceeds the
                         * maximum number of tuples allowed
                         * (MAX_TUPLES), set the global parameter
                         *  to the maximum number of tuples.
                         */
                        if (4 * Glrt303cnt + 22 +
                            ATS_TUPLES + Glirtlb < MAX_TUPLES)
                        then
                        begin
                                Glrtlb == 4 * Glrt303cnt + 22 +
                                          ATS_TUPLES + Glirtlb;
                        end
                        else
                        begin
                                Glrtlb == MAX_TUPLES;
                        end
                    end
                end
            end
        end
        else
        /*
         *  SM is not loaded with ID303APP loadable package (IDCU)
         * and SDNBASE loadable package (ATS).
         */
        begin
                Glrtlb == 0;
        end
end
end
```

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# Glrtmsgbuf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrtmsgbuf | FP | DMushort |

### 1.1 Fullname:

Count of rlRTMSGBUF tuples present in SM

### 1.2 Description:

This global parameter contains the count of rlRTMSGBUF tuples which are present in a given SM. This is done to allow engineering and auditing of rlRTMSGBUF.

For an SM loaded with the ID303APP (IDCU) or ISDNBASE (ATS) loadable packages:

```
The number of rlRTMSGBUF tuples is nominally based on the number
of TR303 RTs present in the SM, a fixed value, 360, for Automatic
Terminal Setup (ATS) software, and the incremental global
parameter (Glirtmsgbuf).

If there are no TR303 RTs in the SM then Glrtmsgbuf is 360 for the
ATS software which provides ATS with 180 rlRTMSGBUF tuples for
each ATS_DCOLL terminal process + Glirtmsgbuf. This is the default
number of tuples required for ATS.

If there are TR303 RTs in the SM, the TR303 component for
calculating the number of rlRTMSGBUFs is dependent on the number
of TR303 rlAPDU and TR303 rlRTLB tuples in the SM. Note that the
nomenclature xxx:yyy means the value for both the SM (xxx) and
SMSM-2000ndash;2000 (yyy).

The total number of rlRTMSGBUF tuples when TR303 RTs are present
is determined by:
  1.5 (A) * (B) + 360 (F) + Glirtmsgbuf
  up to the max of 809:1031 (limit of rlRTMSGBUF tuples in SM)
  which is then rounded up to the next power of 2 less 1 (2047).

  Where:
    A = Average number of rlRTMSGBUF tuples per rlAPDU tuple
    B = Number of TR303 rlAPDU tuples: (C) + 96 (D) + 4 (E)
        Where:
          C = The number of TR303 rlRTLB tuples is derived
              as 4 (G) * num of TR303 RTs (Glrt303cnt) + 22:54(C')
          C'= Maximum number of TPs statistically possible
              for1 RT:
              1 (a) + 34:66 (b) - 11 (c) + 2 (d) - 4 (G) =22:54
                   a = Maximum TR303 rlRTLB tuples set aside for
                       recovery
                   b = Maximum number of TR303 TPs per SM possible
                   c = The maximum number of concurrent TR303
                       manual processes is not realistic, so take
                       them away
```

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```
                    d = Realistic maximum number of TR303 manual
                        jobs to a given RT
            D = Maximum number of messages allowed to be queued to
                any single TR303 application TP (PCAPP_PDU_MAX)
            E = Maximum TR303 rlAPDU tuples set aside for recovery
      F = Maximum number of ATS rlRTMSGBUF tuples
      G = Number of TR303 TPs per each additional RT
   For an SM not loaded with the ID303APP (IDCU) and ISDNBASE
  (ATS) loadable packages:

           The number of rlRTMSGBUF tuples is 0.
```

Note that the count of operational/grow TR303 RTs in the SM is available in the Glrt303cnt global parameter.

Note that the customer can increase the value of this global parameter by increasing the incremental global parameter (Glirtmsgbuf).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter should be administered by ODA and TM triggers. It is not administered by RC.

***Retrofit Rules:*** This count should be recalculated during a retrofit based upon the poprule checks for the new generic.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***

```
env.R
```

***Checks:***

```
/* let MAX_TUPLES = DBQNRTMSGBUF - DBSFRTMSGBUF; */
let MAX_TUPLES = 2047 - 0;

/* RULE about Glrtmsgbuf.values: */

if (current_pcr is_in { 1 thru 192 }) then
```

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```
begin
        Glrtmsgbuf is_in {0 thru MAX_TUPLES};
end

/* RULE about Glrtmsgbuf: */

if (runucv) then
begin
if (current_pcr is_in { 1 thru 192 }) then
begin
        if ((count({lpconf in RLlpconfig
                where(lpconf.smconfig == Glconfigname &&
                    lpconf.package == GLID303APP )}) > 0) ||
        (count({lpconf in RLlpconfig
                where(lpconf.smconfig == Glconfigname &&
                      lpconf.package == GLISDNBASE )}) > 0)) then
        /*
         *  SM is loaded with ID303APP loadable package (IDCU) or
         *  ISDNBASE loadable package (ATS).
         */
        begin
                let ATS_TUPLES = 360;

                if (Glrt303cnt == 0) then
                begin
                        /* There are no operational/growth TR303
                         *RTs. */

                        /*
                         * If the calculated value exceeds the
                         * maximum number of tuples allowed
                         * (MAX_TUPLES),set the global parameter
                         * to the maximum number of tuples.
                         */
                        if (ATS_TUPLES + Glirtmsgbuf < MAX_TUPLES)
                        then
                        begin
                                Glrtmsgbuf == ATS_TUPLES +
                                                Glirtmsgbuf;
                        end
                        else
                        begin
                                Glrtmsgbuf == MAX_TUPLES;
                        end
                end
                else
                begin
                  /* There is at least 1 operational/growth
                   * TR303 RT. */
                   find == 1 modatt in RLmodatt
                   where (modatt.module == Gl_pcrid)
                   when_found
                   begin
                      if (modatt.unittype is_in {SMSM2000, SMSM2005})
```

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```
                then
                begin
                  /* SM-2000 */

                  /*
                   * If the calculated value exceeds the
                   * maximum number of tuples allowed
                   * (MAX_TUPLES), set the global parameter
                   * to the maximum number of tuples.
                   */
                  if (((15 * (4 * Glrt303cnt + 54 + 96 + 4)) / 10) +
                      ATS_TUPLES + Glirtmsgbuf < MAX_TUPLES)
                  then
                  begin
                          Glrtmsgbuf ==
                            ((15 * (4 * Glrt303cnt + 54 +
                                              96 + 4)) / 10) +
                            ATS_TUPLES + Glirtmsgbuf;
                  end
                  else
                  begin
                          Glrtmsgbuf == MAX_TUPLES;
                  end
                end
                else
                begin
                  /* SM */

                  /*
                   * If the calculated value exceeds the
                   * maximum number of tuples allowed
                   * (MAX_TUPLES), set the global parameter
                   * to the maximum number of tuples.
                   */
                  if (((15 * (4 * Glrt303cnt + 22 + 96 + 4)) / 10) +
                      ATS_TUPLES + Glirtmsgbuf < MAX_TUPLES)
                  then
                  begin
                      Glrtmsgbuf ==
                       ((15 * (4 * Glrt303cnt + 22 + 96 +
                         4)) / 10) + ATS_TUPLES + Glirtmsgbuf;
                  end
                  else
                  begin
                          Glrtmsgbuf == MAX_TUPLES;
                  end
                end
            end
        end
end
else
/*
 *  SM is not loaded with ID303APP loadable package (
 *  IDCU) and ISDNBASE loadable package (ATS).
```

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```
         */
        begin
                Glrtmsgbuf == 0;
        end
end
end
```

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# Glrtrsdls

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrtrsdls | FP | DMuns2 |

### 1.1 Glrtrsdls

Global Office Parameter Glrtrsdls

### 1.2 Description

Description This parameter specifies the quantity of Real Time Rating System (RTRS) data link DSLs that are connected to the SM. This parameter is populated by ODA and RC but does not appear on any view. Each SM's parameter is set to the number of RLDLDSL tuples in that SM with the servclass attribute set to FC_RTRS.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Populate on all SMs */

  for modatt in RLmodatt

  pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glrtrsdls.values: */
Glrtrsdls is_in {0 thru 2};

end
```

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# Glrtrssm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrtrssm | LRFR | DMuns8 |

### 1.1 Glrtrssm

Global Office Parameter Glrtrssm

### 1.2 Description

This global parameter points to which SM has the RTRS data links attached. It can only be set to an SM that is equipped with RTRS digital subscriber lines. Glospsta

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Zero is not allowed on the RC/ODA form. Unknown on the view is to be mapped to zero in the database.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glrtrssm.values: */
Glrtrssm is_in {0 thru 192};

/* RULE about Glrtrssm: */
if (Glospsta == DBYES) then
begin
       /* When OSPS TA is Y, RTRS SM must be entered. */
        Glrtrssm != 0;   /* 8.1 */
end
```

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# Glrtrto

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrtrto | FP | DMuns5 |

### 1.1 Glrtrto

Ready to receive timeout limit.

### 1.2 Description

The VMSI capability makes a request for the sending of data containing billing information to the Enhanced service provider (ESP). When the ESP is ready to receive the data, it will send a 'ready to receive' signal. This parameter is used by the VMSI capability to indicate the length of time, measured in seconds, it will wait for the 'ready to receive' signal from the ESP.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** 20

***CMP Initial Value:*** 20

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** On a retrofit from a 5E6(1) Office, which has the Voice Messaging Service Interface (VMSI), Issue 1, feature activated, to a 5E7(1) Software Release version of VMSI (Issue 2), the parameter Glrtrto must be set to '12', which is the hard-coded value used in 5E6. The zero bit of the global parameter Gloff2 is used as a feature activation bit for VMSI Issue 1. If the bit is non-zero, the feature is activated in 5E6, and this parameter Glrtrto must be set to '12'. If the 5E6(1) Office does not have VMSI Issue 1, the default value should be used.

***Default Rules:***
```
default = 20;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parameters, so FP is specified  */
/* here.  The group partitioning should be:                */
/*      RLdb_gpdus.grp_type = GPD_OSPS                     */
/*      RLdb_gpdus.grp_id   = 4                            */
pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
PLgpd_defs.R
```

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***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glrtrto.values: */
Glrtrto is_in {1 - 20};

end
```

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# Glrttydls

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrttydls | FP | DMuns4 |

### 1.1 Glrttydls

Global Office Parameter Glrttydls

### 1.2 Description

Description This parameter specifies the quantity of data link Digital Subscriber Lines (DSL)s connected to the record TTYs at the Hotel Billing Information Center (HOBIC). This parameter is meaningless if the OSPS is served by a Hotel Billing Information System (HOBIS). This parameter is populated by ODA and RC but does not appear on any view. Each SM's parameter is set to the number of RLDLDSL tuples in that SM with the servclass attribute set to FC_HOTRT.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Populate on all SMs */

for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glrttydls.values: */
Glrttydls is_in {0 thru 8};
```

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```
end
```

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# Glrvqthrsh

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrvqthrsh | FR | DMuchar |

### 1.1 Glrvqthrsh

CDMA reverse voice quality threshold.

### 1.2 Description

This parameter is for the CDMA reverse voice quality threshold. This threshold is used to determine when to peg the Speech Handler (SH) measurements associated with Low Quality Reverse Voice Call Intervals. Specifically, when the voice quality value of the reverse voice frame fed to the vocoder for the call interval is below the threshold, the appropriate measurement is pegged. This threshold is NOT used for SH reverse voice frame selection.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter will be supported by RC and ODA.

***Retrofit Rules:*** Not applicable.

***Default Rules:*** default = 0;

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* Glrvqthrsh is in 0 thru 127*/

Glrvqthrsh is_in {0 thru 127};
```

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# Glrxcaiu

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrxcaiu | FP | DMuns4 |

### 1.1 Glrxcaiu

REX DGN concurrency for AIUs.

### 1.2 Description

The number of AIUs that can be REX DGN tested at the same time (concurrently) in an SM. This parameter can have different values in different SMs.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 8

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** RC will set lrxcaiu during growth of an SM in an existing office. RC will not support the changing of this parameter on any view in the office.

***Retrofit Rules:*** None.

***Default Rules:***

```
/*
* Default in SM-2000 is 8; and
* default in  SM is 4.
*/

/* The default of a parameter can not contain reference to current_pcr
if ( SM2000(current_pcr) ) then
      default = 8;
else
      default = 4;
*/

      default = 4;
```

***Distribution Rules:***

```
/* FP */
```

***Import:***

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cktdefs.R

***Checks:***

```
/*
 * Allowable range in SM-2000 is 1 - 8; and
 * allowable range in SM is 1 - 4.
 */
if( current_pcr is_in sm_all) then
begin
        if ( SM2000(current_pcr) ) then
        begin
                Glrxcaiu is_in { 1 - 8 };
        end else
        begin
                Glrxcaiu is_in { 1 - 4 };
        end
end
```

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# Glrxcfab

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrxcfab | FP | DMuns4 |

### 1.1 Glrxcfab

Global Office Parameter Glrxcfab

### 1.2 Description

The number of line units that can be REX FAB tested at the same time (concurrently) in an SM. This parameter can have different values in different SMs.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 8

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** A RC/V view
(8.27)

and ODA form (5510) per-SM field is required.

***Retrofit Rules:*** This value should be preserved

over a retrofit.

***Default Rules:***
```
default = 8;
```

***Distribution Rules:***
```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glrxcfab: */
for pcr in sm_all
begin
        Glrxcfab on pcr is_in {1 thru 8};
end
```

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# Glrxcis2

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrxcis2 | FP | DMuns4 |

### 1.1 Fullname:

REX DGN concurrency for (R)ISLU2s

### 1.2 Description:

The number of ISLU2s that can be REX DGN tested at the same time (concurrently) in an SM. This parameter can have different values in different SMSM-2000ndash;2000s.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** ---

***SM Initial Value:*** 8

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Cannot be modified by RC.

***Retrofit Rules:*** Preserve over the retrofit (retrofit should not change existing data).

***Default Rules:***

```
/*
* Default in SM-2000 is 8; and
* default in an SM is 8.
* Note that concurrency is not allowed in an SM so the
* default here is immaterial (for an SM) -- the default
* of 8 for both an SM and SM-2000 prevents SODD audit errors.
*/
default = 8;
```

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/*
 * Allowable range in SM-2000 is 1 - 8; and
 * allowable range in an SM is 1 - 8.
 */
```

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```
if (current_pcr is_in sm_all) then
begin
                Glrxcis2 is_in { 1 thru 8 };
end
```

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# Glrxclu3

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glrxclu3 | FP | DMuns4 |

### 1.1 Glrxclu3

Global Office Parameter Glrxclu3

### 1.2 Description

The number of LU3s that can be REX DGN tested at the same time (concurrently) in an SM. This parameter can have different values in different SMs.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 8

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** A RC/V view (8.27) and ODA form (5510) per-SM field is required.

***Retrofit Rules:*** This value should be preserved over a retrofit.

***Default Rules:*** default = 8;

***Distribution Rules:***

```
        /* Populate on all SMs */

        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glrxclu3: */

for pcr in sm_all
begin
        Glrxclu3 on pcr is_in {1 thru 8};
end
```

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## 3.29 GIs

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# Glsab_fb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsab_fb | FP | DMbool |

### 1.1 Glsab_fb

Global Office Parameter Glsab_fb

### 1.2 Description

This global indicates whether Subaccount Billing service is offered by this switch (DBYES) or not (DBNO). It is group partitioned, restricted to PSMs and SMs with servclass of FC_RAFDTA in RLfc_porttype; that is, SMs with grp_type = GPD_OSPS and grp_id = 3 (see RLdb_gpdus.P).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glsab_fb.values: */
/* no check */ ;
```

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# Glsabac

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsabac | FP | DMchr2 |

### 1.1 Glsabac

Global Office Parameter Glsabac

### 1.2 Description

This global holds the Subaccount Billing access code, which is the digit sequence keyed by the customer at the ACCS bong tone to indicate that the call should receive subaccount billing treatment. It is made recent changeable because there is a possibility that it could change during development of the feature; but once the access code has been agreed upon by all carriers, its value should not change as this will be a nationally-used customer interface. The default value listed is the current planned access code. It is group partitioned, restricted to PSMs and SMs with servclass of FC_RAFDTA in RLfc_porttype; that is, SMs with grp_type = GPD_OSPS and grp_id = 3 (see RLdb_gpdus.R).

***Type:*** DB4STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** "15"

***AM Initial Value:*** "0"

***CMP Initial Value:*** "0"

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = "15";
```

***Distribution Rules:***
```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glsabac.values: */
if (current_pcr is_in { 1 thru 192 }) then
begin
        Glsabac ~== "1[1-8]";
end
```

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# Glsabill

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsabill | FP | DMbool |

### 1.1 Glsabill

Global office parameter Glsabill.

### 1.2 Description

Indicates whether the stand-alone billing feature has been purchased for a specific module. All SMs will initially have a value of DBNO. When the stand-alone billing option is purchased, Glsabill will be changed to DBYES.

***NOTE:*** Parameter will vary from SM to SM within an office.

If the stand alone billing option is not purchased, a default amount of memory is allocated to buffer billing information only during tracer reporting and is not available for use during stand alone operation. When the stand alone billing option is purchased, the billing memory buffer size is increased to use all the spare memory between the end of the SM ODD and the start of peripheral images which are packed into high memory. This billing buffer size is therefore dependent on the amount of physical memory equipped and the size of the SM ODD.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** Standalone billing, which is usually associated with remote SM clusters, must also be purchased with the VCDX SM.

Restrictions to remote clusters is maintained by ODA except for the VCDX SM.

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Import:***

```
chk_apperm.R
```

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***Checks:***

```
/* RULE about Glsabill.values: */

/* If this is a VCDX (Very Compact Digital Exchange) switch,
 * then stand-alone billing must be purchased.
 */
if (current_pcr is_in sm_all) then>
begin
        if (c_aperm(PVMSKVCDX,CONFIGMAX) == true) then
        begin
                Glsabill == DBYES;
        end
end
```

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# Glsablec

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsablec | FP | DMbool |

### 1.1 Glsablec

Global Office Parameter Glsablec

### 1.2 Description

This global indicates whether Subaccount Billing service is offered by the Local Exchange Carrier serving this switch (DBYES) or not (DBNO). This flag is only checked if the switch is owned by an Interexchange Carrier; otherwise, this flag is ignored. The value of this flag depends on the value of Glsab_fb. Glsablec can only be set to DBYES if Glsab_fb is also set to DBYES. If Glsab_fb is set to DBNO, Glsablec must also be set to DBNO.

It is group partitioned, restricted to PSMs and SMs with servclass of FC_RAFDTA in RLfc_porttype; that is, SMs with grp_type = GPD_OSPS and grp_id = 3 (see RLdb_gpdus.P).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glsablec.values: */
        /* no check */ ;
```

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# Glsacfm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsacfm | FR | DMuchar |

### 1.1 Glsacfm

Global Office Parameter Glsacfm

### 1.2 Description

This parameter specifies the maximum number of intra-switch simultaneous calls to be forwarded as an action of SCF or SCA/CAR.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 9

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 99;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsacfm.values: */
Glsacfm is_in {0 thru 99};
```

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# Glsacmp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsacmp | FR | DMbool |

### 1.1 Glsacmp

LS AMA Enhancements Record CSAME/CDIFF Call Completion Billing Parameter

### 1.2 Description

This global is used to make an enhanced AMA record for listing service (LS) calls upon call completion based on the determination of SAME/DIFF billing methods. It has the following meaning: if 0, no enhanced AMA record will be generated for CSAME/CDIFF billing upon call completion; if 1, an enhanced AMA record will be generated upon completion for CSAME/CDIFF billing. DBNO=0 DBYES=1.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** Glsacmp cannot be 1 when both secure feature bit SFID369 and option feature bit RCFOP052 are on, OR when BOTH secure feature bit SFID369 AND option feature bit RCFOP052 are off AND EITHER secure feature bit SFID407 OR option feature bit RCFOP140 are off.

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsacmp.values: */
        Glsacmp is_in {DBYES, DBNO};
/* RULE about Glsacmp: */
if (Glsacmp == DBYES) then
begin
        /* AMA OPTIONS LSTG SVC REC Global Parameter Must Not Be Enabled */
        Gllsama == DBNO;
end
```

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# Glsacp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsacp | FP | DMbool |

### 1.1 Glsacp

Global Office Parameter Glsacp

### 1.2 Description:

This global parameter indicates whether the service provider has purchased the stand-alone call processing option. Glacp may have one of two values:

```
DBYES - sacp has been purchased,
DDBNO - sacp has not been purchased.
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* Populate on all SMs */

        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
BCsacp: if (current_pcr is_in sm_all) then
begin

/* RULE about Glsacp.values: */
/* In a VCDX (Very Compact Digital Exchange) office, stand-
 * alone call processing will not be operational.
 */
if (Glaws == DBYES) then
begin
```

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```
        Glsacp == DBNO;
end
end
```

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# Glsacral

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsacral | LR | DMbool |

### 1.1 Fullname:

Global Office Parameter Glsacral

### 1.2 Description:

Glsacral is used to shut off the generation of 15 minute critical alarm reports for isolated SMs (such as, for factory testing and/or site installation). The default value is DBYES (alarm reports generated). A level 2 or greater 3B initialization (manual or automatic) will always reset the parameter to DBYES, to guarantee that the alarm reports are always generated after cutover. These alarm reports are a feature of the switch, and must be guaranteed to generate. Therefore, the usage of this parameter should be restricted to Bell Laboratories and Network Systems factory and site personnel. Should customer personnel alter the value of this parameter, Network Systems should be waived of responsibility for these alarm reports not generating.

ODA must set this parameter to DBYES for new offices and all offline retrofits and growths.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** 0

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBYES;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsacral.values: */

        /* no check */ ;
```

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# Glsalgrp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsalgrp | FP | DMshort |

### 1.1 Glsalgrp

Global Office Parameter Glsalgrp

### 1.2 Description

This global parameter allows an SM to be equipped with a line side announcement machine in order to provide the stand-alone announcement. Its values are zero (0), or a multiline hunt group number. If zero, routing to the S.A. announcement via fixed RI RT_RSMSA is done as currently. If nonzero, routing to the multiline hunt group specified by the parameter is done. The lines of the group terminate on an external announcement machine provided by the Service Provider. The lines of the group should have 'Freeterm' marked as DBNO in FC_LINE so that customers are not charged for listening to this line side Service Provider provided announcement.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glsalgrp.values: */
        /* no check */ ;
```

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# Glsaloss

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsaloss | FR | DMisloss |

### 1.1 Glsaloss

Global Office Parameter Glsaloss

### 1.2 Description

This parameter is used to set the send analog loss value in the ISLU-Z line card.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsaloss.values: */
        /* no check */ ;
```

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# Glsamp_sqd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsamp_sqd | LR | DMuns7 |

### 1.1 Glsamp_sqd

Global Office Parameter Glsamp_sqd

### 1.2 Description

This is the sampling rate for Supplemental Query Data messages. Default is taking a sample every 20 queries.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 20

***CMP Initial Value:*** 20

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 20;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsamp_sqd.values: */
Glsamp_sqd is_in {0 thru 127};
```

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# Glsample_n

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsample_n | FR | DMuns7 |

### 1.1 Glsample_n

Global Office Parameter Glsample_n

### 1.2 Description

This is the 'N' value for 1/N OSPS AMA sampling. IF N is 0, 1/N sampling is turned off.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsample_n.values: */
Glsample_n is_in {0 thru 99};
```

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# Glsaprls

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsaprls | FR | DMbool |

### 1.1 Glsaprls

LS AMA Enhancements Record Position Release Parameter

### 1.2 Description

This global parameter is used to make an enhanced AMA record for Listing Service (LS) calls upon position release. It has the following meaning: if 0, no enhanced AMA record will be generated upon position release; if 1, an enhanced AMA record will be generated upon position release. DBNO=0 DBYES=1.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***

```
Glsaprls cannot be 1 when secure feature bit SFID369 is off
         (Glsaprls.rc-oda.9.2)
Glsaprls cannot be 1 when option feature bit RCFOP052 is on
         (Glsaprls.rc-oda.9.2)
```

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsaprls.values: */
        Glsaprls is_in {DBYES, DBNO};

/* RULE about Glsaprls: */
if (Glsaprls == DBYES) then
begin
```

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```
        /* AMA OPTIONS LSTG SVC REC Global Parameter Must Not Be Enabled */
        Gllsama == DBNO;
end
```

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# Glsastacct

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsastacct | FR | DMbool |

### 1.1 Glsastacct

Announcement for TDX toll account code using SAS.

### 1.2 Description

Service provider office option parameter to turn on or off toll account code dial-through-announcement given by SAS circuit. If a TDX customer subscribes to the account code feature and Glsastacct is set to DBYES the caller hears the account code announcement. At any time after the account code announcement begins, the caller enters the digits. Onces the caller begins entering digits the SAS circuit stops playing the announcement. A fixed route of TACCT must exist on view 10.1 in order for a caller to hear the announcement. When set to DBNO the caller hears the account code prompt (2 beeps) and enters digits.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glsastacct.values: */
Glsastacct is_in {DBYES, DBNO};
if (Glsastacct == DBYES) then
begin
        find == 1 rt_fixedri in RLrt_fixedri
        where(rt_fixedri.ritype == RT_TOLL_ACCT);
end
```

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# Glsatrns

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsatrns | FR | DMbool |

### 1.1 Glsatrns

LS AMA Enhancements Record Transfer To Announcement Parameter

### 1.2 Description

This global is used to make an enhanced AMA record for listing service (LS) calls upon transfer to announcement. It has the following meaning: if 0, no enhanced AMA record will be generated upon transfer to announcement; if 1, an enhanced AMA record will be generated upon transfer to announcement. DBNO=0 DBYES=1.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***

```
Glsatrns cannot be 1 when secure feature bit SFID369 is off
         (Glsatrns.rc-oda.9.2)
Glsatrns cannot be 1 when option feature bit RCFOP052 is on
         (Glsatrns.rc-oda.9.2)
```

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsatrns.values: */
        Glsatrns is_in {DBYES, DBNO};
/* RULE about Glsatrns: */
if (Glsatrns == DBYES) then
begin
        /* AMA OPTIONS LSTG SVC REC Global Parameter Must Not Be Enabled */
        Gllsama == DBNO;
end
```

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# Glsaudi_io

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsaudi_io | LR | DMbool |

### 1.1 Glsaudi_io

Global Office Parameter Glsaudi_io

### 1.2 Description

This global parameter is used by recent change and traffic measurements to determine if the special output reports and recent change input forms tailored for Saudi Arabia are to be used. Used by Export.

***Type :*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsaudi_io.values: */
        /* no check */ ;
```

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# Glsaverb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsaverb | FR | DMbool |

### 1.1 Glsaverb

LS AMA Enhancements Record Verbal Report Parameter

### 1.2 Description

This global is used to make an enhanced AMA record for listing service (LS) calls upon verbal report. It has the following meaning: if 0, no enhanced AMA record will be generated upon verbal report; if 1, an enhanced AMA record will be generated upon verbal report. DBNO=0 DBYES=1.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***

```
Glsaverb cannot be 1 when secure feature bit SFID369 is off
         (Glsaverb.rc-oda.9.2)Glsaverb cannot be 1 when option feature bit RCFOP052 i
s on
         (Glsaverb.rc-oda.9.2)
```

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsaverb.values: */
        Glsaverb is_in {DBYES, DBNO};
/* RULE about Glsaverb: */
if (Glsaverb == DBYES) then
begin
        /* AMA OPTIONS LSTG SVC REC Global Parameter Must Not Be Enabled */
        Gllsama == DBNO;
end
```

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# Glscaac

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscaac | LPFP | DMaccess |

### 1.1 Glscaac

Global Office Parameter Glscaac

### 1.2 Description

This parameter is used to indicate 5E6 LASS Selective Call Acceptance (SCA) feature access. It indicates whether the feature is unavailable for use, whether subscription is required to access the SCA feature, whether the feature is generally available or whether the feature is temporarily unavailable for use. It should initially be populated with UNAVAILABLE. The AM value for this parameter is defaulted to UNAVAILABLE. The AM parameter is changed by RC only when the 'ALL' value is used for the SM key on the LASS Feature Access View. The AM parameter reflects the office standard value and is typically used to set the SM parameters after SM growth.

Routing indices Glscart and Glcarrt must be defined (should not be 0) to set this parameter to either GEN_AVAIL or SUBSCRIPTION.

```
RANGE: (0 - 4)
Values:   0 = LASSNULL,
          1 = UNAVAILABLE,
          2 = GEN_AVAIL,
          3 = SUBSCRIPTION,
          4 = TEMP_UNAVAIL
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** UNAVAILABLE

***AM Initial Value:*** LASSNULL

***CMP Initial Value:*** LASSNULL

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** ODA must retain its value across retrofits to post 5E6 generics.

***Default Rules:***

```
default = UNAVAILABLE;
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

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***Checks:***

```
/* RULE about Glscaac.values: */
Glscaac is_in {LASSNULL, UNAVAILABLE, GEN_AVAIL, SUBSCRIPTION, TEMP_UNAVAIL};
```

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# Glscabl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscabl | FR | DMbool |

### 1.1 Glscabl

Global Office Parameter Glscabl

### 1.2 Description

This global parameter specifies whether the calling party will be charged for the Non-Acceptance recording (announcement) as a result of 5E6 LASS Selective Call Acceptance screening. DBYES in this field indicates that the non- acceptance announcement is billable and the calling party will be charged accordingly.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glscabl.values: */
        /* no check */ ;
```

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# Glscafd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscafd | FR | DMfid |

### 1.1 Glscafd

Global Office Parameter Glscafd

### 1.2 Description

This global parameter contains the 5E6 LASS SCA feat_id available when the access parameter, Glscaac is set to GEN_AVAIL. This will be used by call processing to determine which tuple to read in the _cf relation for GENERALLY AVAILABLE features. Even though this parameter has a default of null specified for the generally available feature id, ODA should populate this parameter as a result of the ODA process which converts feature names to feature ids. This parameter is populated with the last 10 bits of RLfacname.facid which is accessed by using the GENERALLY AVAILABLE feature name, /SCAGA, as the key.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glscafd.values: */
        /* no check */ ;
```

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# Glscamaq

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscamaq | LR | DMuns8 |

### 1.1 Glscamaq

Global Office Parameter Glscamaq

### 1.2 Description

Glscamaq global parameter identifies a unique OSPS ACD call queue reserved for system CAMA calls. This excludes interflowed system CAMA calls that are being received and directed to a different call queue via the ospsid attribute in RLac_cqdet. It includes interflowed system CAMA calls that aren't directed to a different call queue via the ospsid attribute. The range is 0 - 128. This parameter is used to generate system CAMA call queue measurements. When a call queue is reserved solely for system CAMA calls, Glscamaq should be set to the value of the callq attribute in the RLac_cqdet tuple having the key attributes set to:

```
Attribute       Value
---------       -----
ta_type         SYS_CAMA
prefix          NULLPREF
coin            OASTNONCOIN
ospsid          0
carrier         OADC_CARR
```

If another tuple is found in RLac_cqdet having the callq attribute equal to the callq attribute of the system CAMA tuple described previously, then a call queue is not reserved solely for system CAMA calls, and in this case Glscamaq should be set to 0. If a tuple exists in RLac_destx or RLac_tgrp having its callq attribute equal to the callq attribute of the system CAMA tuple in RLac_cqdet described previously, then a call queue is not reserved solely for system CAMA calls, and in this case Glscamaq should be set to 0.

If the usenext attribute of the system CAMA tuple in RLac_cqdet described previously, is equal to TATGRP and a tuple exists in RLac_tgrp where RLac_tgrp.ta_pcid equals RLac_cqdet.ta_pcid, then it is assumed that a call queue is not reserved solely for system CAMA calls, and in this case Glscamaq should be set to 0.

If the usenext attribute of the system CAMA tuple in RLac_cqdet described previously, is equal to TADESTX and a tuple exists in RLac_destx where RLac_destx.ta_pcid equals RLac_cqdet.ta_pcid, then it is assumed that a call queue is not reserved solely for system CAMA calls, and in this case Glscamaq should be set to 0.

These two assumptions are based on the fact that it is not logical for a customer to request a second level of call type determination without the intention of specifying a call queue different than the call queue defined at the first level.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

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***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glscamaq.values: */
        /* no check */ ;
```

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# Glscamx

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscamx | FR | DMuchar |

### 1.1 Glscamx

Global Office Parameter Glscamx

### 1.2 Description

This global parameter indicates the maximum number of DN on the list of the 5E6 LASS feature Selective Call Acceptance (SCA).

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 6

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 6;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glscamx.values: */
Glscamx is_in {3 thru 31};
```

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# Glscart

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscart | FR | DMrteidx |

### 1.1 Fullname:

Global Office Parameter Glscart

### 1.2 Description:

This parameter indicates the routing index to an announcement as a non-acceptance treatment of the 5E6 LASS Selective Call Acceptance (SCA).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
AVextern.R
```

***Checks:***
```
/* RULE about Glscart.values: */

Glscart is_in {0 thru AVRIMAX()};
```

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# Glscc_rop

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscc_rop | LR | DMscc_rop |

### 1.1 Glscc_rop

Global Office Parameter Glscc_rop

### 1.2 Description

This global parameter is used by Call Failure Handling to determine the routing of Machine Detected Interoffice Irregularities (MDII) to the SCC and/or RDP. This is an Export only parameter. This global parameter is assigned values from DMSCC_ROP. Used by Export only.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** TMNROP_SCC

***CMP Initial Value:*** TMNROP_SCC

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = TMNROP_SCC;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glscc_rop.values: */
        /* no check */ ;
```

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# Glsccp_int

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsccp_int | FP | DMsccp_int |

### 1.1 Glsccp_int

Signaling Connection Control Part(SCCP) Initialization

### 1.2 Description:

This parameter is used by SCCP. It is used in the SM's indicated by Glgsm_net when Glgsm_net is not empty.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** CCSCP_UNEQ

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** rc access: none

***Retrofit Rules:*** None.

***Default Rules:***

```
default = CCSCP_UNEQ;
```

***Distribution Rules:***

```
        for gsm_net in RLgsm_net
        begin
                pcrlist[gsm_net.gsm] = true;
        end
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
        /* RULE about Glsccp_int: */
        if (Glscp_bght on am == DBNO) then
        begin
BCsccp:         Glsccp_int == CCSCP_UNEQ;
        end
end
```

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# Glsccp_prc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsccp_prc | FP | DMsccp_prc |

### 1.1 Glsccp_prc

SCCP processing messages in the PH.

### 1.2 Description

This parameter is used by SCCP. It is in the SM's indicated by Glgsm_net when Glgsm_net is not empty. Glsccp_prc indicates whether the SCCP code in PH is processing messages.

SCCP not processing messages equals CC_NO. SCCP processing messages equals CC_YES.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** CC_NO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** None.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = CC_NO;
```

***Distribution Rules:***
```
for gsm_net in RLgsm_net1
begin
      pcrlist[gsm_net.gsm] = true;
end
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
      /* RULE about Glsccp_prc: */
      /* range check */
      Glsccp_prc is_in {CC_NO, CC_YES};
      if (Glsccp_prc == CC_YES) then
      begin
              find == 1 gsm_net in RLgsm_net
```

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```
            where (gsm_net.gsm == current_pcr);
      end
end
```

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# Glscfac

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscfac | LPFP | DMaccess |

### 1.1 Glscfac

Global Office Parameter Glscfac

### 1.2 Description

This global parameter is used to indicate 5E6 LASS Selective Call Forwarding (SCF) feature access. It indicates whether the feature is unavailable for use, whether subscription is required to access the SCF feature, whether the feature is generally available or whether the feature is temporarily unavailable for use. It should initially be populated with UNAVAILABLE. The AM value for this parameter is defaulted to UNAVAILABLE. The AM parameter is changed by RC only when the 'ALL' value is used for the SM key on the LASS Feature Access View. The AM parameter reflects the office standard value and is typically used to set the SM parameters after SM growth.

```
RANGE: (0 - 4)
Values:   0 = LASSNULL,
          1 = UNAVAILABLE,
          2 = GEN_AVAIL,
          3 = SUBSCRIPTION,
          4 = TEMP_UNAVAIL
```

***Type :*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** UNAVAILABLE

***AM Initial Value:*** UNAVAILABLE

***CMP Initial Value:*** UNAVAILABLE

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** ODA must retain its value across retrofits to ; post 5E6 generics.

***Default Rules:***

```
default = UNAVAILABLE;
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glscfac.values: */
```

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```
Glscfac is_in {LASSNULL, UNAVAILABLE, GEN_AVAIL, SUBSCRIPTION, TEMP_UNAVAIL};
```

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# Glscffd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscffd | FR | DMfid |

### 1.1 Glscffd

Global Office Parameter Glscffd

### 1.2 Description

This global parameter contains the 5E6 LASS SCF feat_id available when the access parameter, Glscfac, is set to GEN_AVAIL. This will be used by call processing to determine which tuple to read in the _cf relation for GENERALLY AVAILABLE features. Even though this parameter has a default of null specified for the generally available feature id, ODA should populate this parameter as a result of the ODA process which converts feature names to feature ids. This parameter is populated with the last 10 bits of RLfacname.facid which is accessed by using the GENERALLY AVAILABLE feature name, /SCFGA, as the key.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glscffd.values: */
        /* no check */ ;
```

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# Glscfmx

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscfmx | FR | DMuchar |

### 1.1 Glscfmx

Global Office Parameter Glscfmx

### 1.2 Description

This global parameter indicates the maximum number of DN on the list of the 5E6 LASS feature Selective Call Forwarding (SCF).

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 6

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 6;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glscfmx.values: */
Glscfmx is_in {3 thru 31};
```

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# Glscmdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscmdb | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glscmdb

### 1.2 Description:

The Glscmdb global parameter contains an SM's current rlSCMDB tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***NOTE:*** The algorithm in this file must be the same as the algorithm in fc/FCtrigint/FCscmcnt.c which is the init code for Glscmdb. So if the algorithm in this file changes verify that it is consistent with the init code algorithm.

ODA has agreed to make the calculation changes in 5e10 even though the changes were made to this file in 5e11.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as DNs are shared. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
"env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
```

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```
begin
        Glscmdb is_in {0 thru 28800};
end
if (runucv) then
begin
if (current_pcr is_in sm_all) then
begin

/* RULE about Glscmdb.values: */

if (Glscmdb != 0) then
begin
        find > 0 lpconf in RLlpconfig
        where ((lpconf.smconfig == Glconfigname) &&
               (lpconf.package is_in {GLASHDN, GLISDNBRCS}))
        when_found
        begin
/*              Glscmdb is_in {1 thru (DBQNSCMDB - DBSFSCMDB)}; */
                Glscmdb is_in {1 thru (28800 - 0)};
        end
end

end


/* RULE about Glscmdb: */

function func() returning int
begin
        avgca = 0;
        conten = 0;
        mu = 0;
        sigma = 0;
        scmdb = 0;

        ashdn = count({ lpconf in RLlpconfig
                      where ((lpconf.smconfig == Glconfigname) &&
                             (lpconf.package == GLASHDN)) });

        isdnbrcs = count({ lpconf in RLlpconfig
                         where ((lpconf.smconfig == Glconfigname) &&
                                (lpconf.package == GLISDNBRCS)) });

        if ((ashdn > 0) || (isdnbrcs > 0)) then
        begin
                if (isdnbrcs > 0) then
                begin
                        avgca = 4;
                        conten = 1;
                end
                else if (ashdn > 0) then
                begin
                        avgca = 1;
                        conten = 2;
```

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```
                end

                if ((Glsdnnum + Gliscmdb) > 0) then
                begin
                        mu = ((Glsdnnum * avgca * conten) + 5) / 6;
                        sigma = sqrt( mu );
                        scmdb = (5 * sigma) + mu;
                end
                else
                begin
                        scmdb = 0;
                end

/*              if (scmdb + Gliscmdb <= (DBQNSCMDB - DBSFSCMDB))
                then   */
                if (scmdb + Gliscmdb <= (28800 - 0)) then
                begin
                        if( Glscmdb >= scmdb + Gliscmdb ) then
                        begin
                                return 0;
                        end
                        else
                        begin
                                return 1;
                        end
                end
                else
                begin
                /*      Glscmdb == DBQNSCMDB - DBSFSCMDB;       */
                        if( Glscmdb == 28800 - 0 ) then
                        begin
                                return 0;
                        end
                        else
                        begin
                                return 2;
                        end
                end
        end
        else
        begin
                if( Glscmdb == 0 ) then
                begin
                        return 0;
                end
                else
                begin
                        return 3;
                end
        end
end

if (current_pcr is_in sm_all) then
begin
```

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```
        let RET = func();
        RET == 0;
end
end
```

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# Glscp_bght

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscp_bght | LP | DMbool |

### 1.1 Glscp_bght

Signaling connection control part (SCCP) bought.

### 1.2 Description

This parameter is used by SCCP. It is used in the AM to indicate whether this office has bought SCCP.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ---

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** ***NOTE:*** SCCP will always be supported on international or national telecommunication standardization sector (TSS) global SMs, therefore Glscp_bght should be populated with DNYES.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = DBYES;
```

***Distribution Rules:***
```
pcrlist[193] = true;
```

***Checks:***
```
/* Glscp_bght should equal DBYES. */
Glscp_bght == DBYES;
```

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# Glscp_conv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscp_conv | LRFR | DMbool |

### 1.1 Glscp_conv

SCCP Conversion Feature Presence Parameter

### 1.2 Description:

This global parameter will indicate to allow or to preclude the definition and initialization actions related to the SCCP conversion.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** Note that the SCCP Conversion feature isn't supported, therefore Glscp_conv should be populated with DBNO.

***Retrofit Rules:*** None.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* Standard */
```

***Checks:***

```
/* Glscp_conv should equal DBNO. */
BCscp_conv:     Glscp_conv == DBNO;
```

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# Glscp_das

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscp_das | FR | DMda_tree |

### 1.1 Glscp_das

Service Control Point Digit Analysis Selector

### 1.2 Description

This global parameter is used as the default Digit Analysis Selector (DAS) for retranslating Advanced Services Platform (ASP) calls after querying the external Service Switching Point (SCP) database. At a ASP office a query is made to an external SCP database to obtain routing information necessary to complete the call. This parameter points to RLda_digstrt, and is used to indicate where translations should begin in digit analysis for routing numbers which are returned from the SCP database.

CHECKS

```
if ( Glpvn_ofc is DBPVN_SSP ) then
begin
     Glscp_das must_not_be 0;
end
```

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** if ( Glpvn_ofc is DBPVN_SSP) then Glscp_das must not be 0

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glscp_das.values: */
Glscp_das is_in {0 thru 99};
```

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# Glscp_trec

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscp_trec | FR | DMtrec |

### 1.1 Fullname:

Office option for SCP-Transaction Recording for Real Time Call Detail (RTCD).

### 1.2 Description:

This parameter is used to determine how billing information should be recorded for SCP Transactions.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** TREC_AMAONLY

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***

```
/* Glscp_trec may only be set to its non-default values
 * if SFID 245 for RTCD recording is unlocked.
 *
 * if( Glscp_trec == TREC_RTONLY || Glscp_trec == TREC_RTAMA )
 * then
 *      SFID245 == DBYES;
 *
 * RC view 8.1 (fields 232 and 253) will be used to update
 * this global. */
```

***Retrofit Rules:*** /* none */

***Default Rules:***

```
default = TREC_AMAONLY;
```

***Distribution Rules:***

```
        /* FR (SMs only) */
```

***Checks:***

```
        if ( Glprtcd == 0 ) then
        begin
                Glscp_trec == TREC_AMAONLY;
        end
```

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```
Glscp_trec is_in { TREC_AMAONLY, TREC_RTONLY, TREC_RTAMA };
```

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# Glscpl_das

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscpl_das | FR | DMda_tree |

### 1.1 Glscpl_das

Global Office Parameter Glscpl_das

### 1.2 Description

This global parameter is used as the default line Digit Analysis Selector (DAS) for retranslating Private Virtual Network (PVN) calls after querying the external Service Switching Point (SCP) database. At a PVN office a query is made to an external SCP database to obtain routing information n necessary to complete the call. This parameter points to RLda_digstrt, and is used to indicate where translations should begin in digit analysis for routing numbers which are returned from the SCP database.

CHECKS:

/* if SSP office the Glscpl_das must not be 0 */

```
if Glpvn_ofc is DBPVN_SSP
then
    Glscpl_das must_not_be 0
```

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glscpl_das.values: */
Glscpl_das is_in {0 thru 99};
```

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# Glscpt_das

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscpt_das | FR | DMda_tree |

### 1.1 Glscpt_das

Global Office Parameter Glscpt_das

### 1.2 Description

This global parameter is used as the default trunk Digit Analysis selector (DAS) for retranslating PVN calls after querying the external Service Switching Point (SCP) database. At a Private Virtual Network (PVN) office a query is made to an external SCP database to obtain routing information necessary to complete the call. This parameter points to RLda_digstrt, and is used to indicate where translations should begin in digit analysis for routing numbers which are returned from the SCP database.

CHECKS:

```
/* if Service Switching Point (SSP) office  */
/* the Glscpt_das must not be 0             */
if Glpvn_ofc is DBPVN_SSP
then
    Glscpt_das must_not_be 0
```

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glscpt_das.values: */
```

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```
Glscpt_das is_in {0 thru 99};
```

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# Glscr_g

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscr_g | FR | DMrteidx |

### 1.1 Fullname:

Global Office Parameter Glscr_g

### 1.2 Description:

This parameter indicates the routing index to a gentle announcement as a non-acceptance treatment of the 5E6 LASS Selective Call Rejection (SCR).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
AVextern.R
```

***Checks:***
```
/* RULE about Glscr_g.values: */

Glscr_g is_in {0 thru AVRIMAX()};
```

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# Glscr_h

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscr_h | FR | DMrteidx |

### 1.1 Fullname:

Global Office Parameter Glscr_h

### 1.2 Description:

This parameter indicates the routing index to a harsh announcement as a nonacceptance treatment of the 5E6 LASS Selective Call Rejection (SCR).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
AVextern.R
```

***Checks:***
```
/* RULE about Glscr_h.values: */

Glscr_h is_in {0 thru AVRIMAX()};
```

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# Glscrac

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscrac | LPFP | DMaccess |

### 1.1 Glscrac

Global Office Parameter Glscrac

### 1.2 Description

This global parameter is used to indicate 5E6 LASS Selective Call Rejection (SCR) feature access. It indicates whether the feature is unavailable for use, whether subscription is required to access the SCR feature, whether the feature is generally available or whether the feature is temporarily unavailable for use. It should initially be populated with UNAVAILABLE. The AM value for this parameter is defaulted to UNAVAILABLE. The AM parameter is changed by RC only when the 'ALL' value is used for the SM key on the LASS Feature Access View. The AM parameter reflects the office standard value and is typically used to set the SM parameters after SM growth.

Routing indices Glscr_h and Glscr_g must be defined (should not be 0) to set this parameter to either GEN_AVAIL or SUBSCRIPTION.

```
RANGE: (0 - 4)
Values:   0 = LASSNULL,
          1 = UNAVAILABLE,
          2 = GEN_AVAIL,
          3 = SUBSCRIPTION,
          4 = TEMP_UNAVAIL
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** UNAVAILABLE

***AM Initial Value:*** LASSNULL

***CMP Initial Value:*** LASSNULL

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** ODA must retain its value across retrofits to post 5E6 genrics.

***Default Rules:***

```
default = UNAVAILABLE;
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

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***Checks:***

```
/* RULE about Glscrac.values: */
Glscrac is_in {LASSNULL, UNAVAILABLE, GEN_AVAIL, SUBSCRIPTION, TEMP_UNAVAIL};
```

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# Glscrfd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscrfd | FR | DMfid |

### 1.1 Glscrfd

Global Office Parameter Glscrfd

### 1.2 Description

This global parameter contains the 5E6 LASS SCR feat_id available when the access parameter, Glscrac is set to GEN_AVAIL. This will be used by call processing to determine which tuple to read in the _cf relation for GENERALLY AVAILABLE features. Even though this parameter has a default of null specified for the generally available feature id, ODA should populate this parameter as a result of the ODA process which converts feature names to feature ids. This parameter is populated with the last 10 bits of RLfacname.facid which is accessed by using the GENERALLY AVAILABLE feature name, /SCRGA, as the key.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glscrfd.values: */
        /* no check */ ;
```

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# Glscrgb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscrgb | FR | DMbool |

### 1.1 Glscrgb

Global Office Parameter Glscrgb

### 1.2 Description

This global parameter specifies whether the calling party will be charged for the rejection recording (announcement) as a result of 5E6 LASS Selective Call Rejection screening.

There are two types of rejection recoding available: gentle and harsh. DBYES in this field indicates that the GENTLE announcement is billable and the calling party will be charged accordingly.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glscrgb.values: */
        /* no check */ ;
```

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# Glscrhb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscrhb | FR | DMbool |

### 1.1 Glscrhb

Global Office Parameter Glscrhb

### 1.2 Description

This global parameter specifies whether the calling party will be charged for the rejection recording (announcement) as a result of 5E6 LASS Selective Call Rejection screening.

There are two types of rejection recoding available: gentle and harsh. DBYES in this field indicates that the HARSH announcement is billable and the calling party will be charged accordingly.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glscrhb.values: */
        /* no check */ ;
```

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# Glscrmx

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glscrmx | FR | DMuchar |

### 1.1 Glscrmx

Global Office Parameter Glscrmx

### 1.2 Description

This global parameter indicates the maximum number of DN on the list of the 5E6 LASS feature Selective Call Rejection (SCR).

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 6

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 6;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glscrmx.values: */
Glscrmx is_in {3 thru 31};
```

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# Glsdaac

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsdaac | LPFP | DMaccess |

### 1.1 Glsdaac

Global Office Parameter Glsdaac

### 1.2 Description

This global parameter is used to indicate 5E6 LASS Selective Distinctive Alerting (SDA) feature access. It indicates whether the feature is unavailable for use, whether subscription is required to access the SDA feature, whether the feature is generally available or whether the feature is temporarily unavailable for use. It should initially be populated with UNAVAILABLE. The AM value for this parameter is defaulted to UNAVAILABLE. The AM parameter is changed by RC only when the 'ALL' value is used for the SM key on the LASS Feature Access View. The AM parameter reflects the office standard value and is typically used to set the SM parameters after SM growth.

```
RANGE: (0 - 4)
Values:   0 = LASSNULL,
          1 = UNAVAILABLE,
          2 = GEN_AVAIL,
          3 = SUBSCRIPTION,
          4 = TEMP_UNAVAIL
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** UNAVAILABLE

***AM Initial Value:*** LASSNULL

***CMP Initial Value:*** LASSNULL

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** ODA must retain its value across retrofits to post 5E6 generics

***Default Rules:***

```
default = UNAVAILABLE;
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

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```
/* RULE about Glsdaac.values: */
Glsdaac is_in {LASSNULL, UNAVAILABLE, GEN_AVAIL, SUBSCRIPTION, TEMP_UNAVAIL};
```

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# Glsdacc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsdacc | FR | DMchr2 |

### 1.1 Glsdacc

Card Based Speed Dialing Service Access Code

### 1.2 Description

This global parameter is used for the Card Based Speed Dialing feature. This parameter is the Service Access Code as determined by the service provider. Currently, the agreed upon value is 7, with the capability of being changed from a 1 to 2 digit value, with 0 not being allowed in either position.

***Type:*** DB4STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** "7"

***AM Initial Value:*** "0"

***CMP Initial Value:*** "0"

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** Bits 0 - 15 of Gloff1 in 5e9(1) must be copied to the 2 char global parameter Glsdacc for 5e9(2).

```
if (Gloff1{0:7} == 0x00) then
     Glsdacc[0] = "\0";
else Glsdacc[0] == (DMCHAR)Gloff1{0:7};
     Glsdacc[1] == (DMCHAR)Gloff1{8:15};
```

***Default Rules:***

```
default = "7";
```

***Distribution Rules: None***

***Checks:***

```
/* RULE about Glsdacc.values: */
 * Since the range of the global can be between 1 and 99
 * with no multiples of 10 allowed (10, 20, 30 ... 90 not allowed),
 * and 01, 02, ... 09 will become 1,2,3 ... 9, the following rule
 * must be followed:
 */
 Glsdacc ~== "[1-9]\0" || Glsdacc ~== "[1-9][1-9]";
```

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# Glsdafd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsdafd | FR | DMfid |

### 1.1 Fullname:

Global Office Parameter Glsdafd

### 1.2 Description:

This parameter contains the 5E6 LASS SDA feat_id available when the access parameter, Glsdaac is set to GEN_AVAIL. This will be used by call processing to determine which tuple to read in the _cf relation for GENERALLY AVAILABLE features. Even though this parameter has a default of null specified for the generally available feature id, ODA should populate this parameter as a result of the ODA process which converts feature names to feature ids. This parameter is populated with the last 10 bits of RLfacname.facid which is accessed by using the GENERALLY AVAILABLE feature name, /SDAGA, as the key.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsdafd.values: */

        /* no check */ ;
```

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# Glsdamx

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsdamx | FR | DMuchar |

### 1.1 Glsdamx

Global Office Parameter Glsdamx

### 1.2 Description

This global parameter indicates the maximum number of DN on the list of the 5E6 LASS feature Selective Distinctive Alerting (SDA).

***Type :*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 6

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 6;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsdamx.values: */
Glsdamx is_in {3 thru 31};
```

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# Glsdap_idx

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsdap_idx | FR | DMdestidx |

### 1.1 Glsdap_idx

Global Office Parameter Glsdap_idx

### 1.2 Description

Routing index for the SDAP calls

This global variable indicates the serving team that has APSs capable of handling Speed Dial Auto Provisioning calls. This parameter is initailly set to 0, but must be updated to a valid index, as determined by the service provider, before the Auto Provisioning feature can be activated. When set to a non-zero value, this routing index is used to determine the APS serving team for the call.

This global is redundant on all SMs, is displayed on RC/V view 8.9, and is recent changeable.

```
When Glsdap_idx is not zero:
     must find at least 1 tuple in Rlac_destx
     where (RLac_destx.destx equals Glsdap_idx)
     when found
     begin
          must find at least 1 tuple in RLac_cqdet
          where (RLac_cqdet.ta_pcid equals Rlac_destx.ta_pcid and
               RLac_cqdet.ta_type equals OATO_AP);
     end
```

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC/V should equate unknown with zero and only allow 1 - 4095.

Glsdap_idx must be greater than 0 before the Auto Provisioning feature (Glspfeat {glcbsdap}) is set to 1.

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

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***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glsdap_idx.values: */
Glsdap_idx is_in {0 thru 4095};
```

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# Glsdap_pbn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsdap_pbn | FR | DMdn |

### 1.1 Glsdap_pbn

Global Office Parameter Glsdap_pbn

### 1.2 Description

This parameter is used as the "Pseudo Called Number" for billable Speed Dial Auto Provisioning (SDAP) calls (such as DIOR and Wireless). This number is recorded in the AMA record for such calls.

The value for this parameter is a 10 digit [0-9] number (not restricted to directory number format). The value of blank will initially be populated, but must be updated to a valid 10 digit number, as determined by the service provider, in order for the Auto Provisioning feature to be activated.

Since this is a DMdn, both fields of it must be set. The array dn of this DMdn should be set to the desired digits, while the digcnt field of the DMdn should be set to the number of digits in the dn field. The digcnt should be 10 for a 10 digit number or 0 for no number. A number of less than 10 digits is not valid.

***Type:*** DBDN_PAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** {0,""}

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Glsdap_pbn must be greater than 0 before the Auto Provisioning feature (Glspfeat {glcbsdap}) is set to 1.

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default.digcnt = 0;
default.dn = "";
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glsdap_pbn.values: */
        /* no check */ ;
```

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# Glsdap

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsdap | FP | DMshort |

### 1.1 Fullname:

Current number of tuples in RLsdap_sdl.

### 1.2 Description:

This global parameter contains a count of the total number of RLsdap_sdl tuples. It contains the sum of Glssdap (the number of RLsdap_sdl tuples to create at retrofit, that is, the start number) plus Glisdap (the number of RLsdap_sdl tuples added later, that is, the increment number).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** RC only: This global parameter cannot be changed or viewed by Recent Change.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glsdap */
if (current_pcr is_in sm_all) then
begin
        Glsdap is_in {0 thru 32};
end


if (runucv) then
```

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```
begin
if (current_pcr is_in sm_all) then
begin
        if (Glospsta == DBYES) then
        begin
                if ((count({lpconf in RLlpconfig
                        where(lpconf.smconfig == Glconfigname &&
                            lpconf.package == GLOPSMOT)}) > 0) ||
                   (count({lpconf in RLlpconfig
                        where(lpconf.smconfig == Glconfigname &&
                            lpconf.package == GLOPSMAUTO)}) > 0) ||
                   (count({lpconf in RLlpconfig
                        where(lpconf.smconfig == Glconfigname &&
                            lpconf.package == GLOPSMDAAC)}) > 0))
                then
                begin
                        Glsdap is_in {0 thru 32};
                        Glsdap == Glssdap + Glisdap;
                end
                else
                begin
                        Glsdap == 0;
                end
        end
        else
        begin
                Glsdap == 0;
        end
end
end
```

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# Glsdncr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsdncr | FP | DMbcarid |

### 1.1 Glsdncr

Default Carrier for SDN/NRA Calls

***Defines:*** db/DMcarr_val.h

### 1.2 Description

This global is used to set the default carrier for SDN/NRA calls.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10000

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** On the RC/ODA form, #NULL_BCARID is mapped to unknown.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = $NULL_BCARID;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parameters, so FP is specified */
/* here.  The group partitioning should be:               */
/*      RLdb_gpdus.grp_type = GPD_OPRT                    */
/*      RLdb_gpdus.grp_id   = 3                           */
pcrlist = get_gpd_pcrlist (GPD_OPRT,3);
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
        /* RULE about Glsdncr.values: */
        Glsdncr is_in {0 - $FGDMAXBCAR, $NULL_BCARID};
```

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```
        /* RULE about Glsdncr: */
        if (Glsdncr != $NULL_BCARID) then
        begin
                let str() = itoa(Glsdncr);
                let len() = 4 - length(str());
                let carr() = (len() == 0) ? str() :
                                strcat(substr("0000", 0, len()), str());

                find == 1 fc_carr in RLfc_carr
                where (fc_carr.carrid == carr());   /* 9.1 */
        end
end
```

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# Glsdnds

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsdnds | FP | DMda_tree |

### 1.1 Glsdnds

Digit Analysis Start (DAS) for SDN/NRA calls

### 1.2 Description

This global parameter is used for determining the DAS for SDN/NRA calls destined for a private network. This must be implemented for AATOS calls and SDN/NRA calls arriving on the same incoming trunk group, but destined for different out going trunk groups. A DAS of 0 indicates no DAS has been setup for AATOS and SDN/NRA.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is initialized to zero.

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glsdnds.values: */
        /* no check */ ;
```

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# Glsdnfw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsdnfw | FP | DMhex32 |

### 1.1 Glsdnfw

Feature activation word for AATOS/SDN NRA.

***Defines:*** db/DMparty.h

### 1.2 Description

This global is used to activate processing AATOS and SDN/NRA calls. It has the following meaning: if 0, AATOS and SDN/NRA processing is off; if 1, AATOS and SDN/NRA processing is on; and if > 1, then only AATOS and SDN/NRA calls arriving on a designated trunk receive AATOS and SDN/NRA treatment. When Glsdnfw is greater than 1, the value is cast to the domain DMGPORT, which is the port number and module of a test trunk over which calls should receive AATOS and SDN/NRA treatment. Glsdnfw is used as the key into the relation RLgroup_port to retrieve the trunk group and member number of the designated trunk.Glsdnds, Glsdncr

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA only supports the values 0(N) and 1(Y). RC supports all possible values, the default is 0(N).

If Glsdnfw is greater than 0, then Glsdnds must have a valid value populated (1-99) and Glsdncr must have a valid value populated (0-999).

This check is supported by RC only:

When Glsdnfw is greater than 1, then the tgn portion of the hex word Glsdnfw must be found as the key to exactly one tuple in RLfc_oprtk.

***Retrofit Rules:*** On retrofit, if the value is neither 0 nor 1, reset to 0.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parameters, so FP is specified  */
/* here.  The group partitioning should be:               */
```

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```
/*      RLdb_gpdus.grp_type = GPD_OPRT                    */
/*      RLdb_gpdus.grp_id   = 3                           */
pcrlist = get_gpd_pcrlist (GPD_OPRT,3);
```

***Import:***

```
PLgpd_defs.R,
usp5defs.R
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
      /* RULE about Glsdnfw.values: */

      Glsdnfw is_in {0 - 0xFFFFFFFF};

      /* RULE about Glsdnfw: */

      if (Glsdnfw>1) then
      begin
            find == 1 pggpmap in RLpggpmap
            where (pggpmap.port.member == Glsdnfw
                  && pggpmap.port.module == current_pcr
                  && pggpmap.party == $FCP_TRUNK)
            when_found
            begin
                 find == 1 group_port in RLgroup_port
                 where (group_port.portgrp.grpnum == pggpmap.portgrp.grpnum
                      && group_port.portgrp.grptype == pggpmap.portgrp.grptype
                      && group_port.member == pggpmap.member)
                 when_found
                 begin
                        group_port.party == $FCP_TRUNK;
                 end
            end
      end
      if (Glsdnfw>0) then
      begin
            Glsdnds is_in {1 - 99};
            Glospsta == DBYES;
            find == 1 fc_carr in RLfc_carr
            where (fc_carr.carrid == PLi2apd(Glsdncr,4));
      end
end
```

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# Glsdnnum

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsdnnum | FP | DMushort |

### 1.1 Glsdnnum

Global Office Parameter Glsdnnum

### 1.2 Description

Glsdnnum is the number of small shared directory numbers with a presence on this module. This is determined from the RLshterm relation. Glsdnnum is the count of all RLshterm tuples on this module where ((RLshterm.range == 0) and (RLshterm.shtm_cnt <= 7)). This parameter should exist on all SMs. If there are no RLshterm tuples on this SM, the value of Glsdnnum should be zero. This number will change in various scenarios: Group changed from small to large, number will decrease on SMs the group is present. Change from large to small group, number will increase on SMs the group is found. Small group modified, number will either decrease or increase on some SMs depending on if terminals were added or deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
      /* RULE about Glsdnnum.values: */
      Glsdnnum is_in {0 thru 65535};
end
```

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# Glsdntrm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsdntrm | FP | DMushort |

### 1.1 Glsdntrm

Global Office Parameter Glsdntrm

### 1.2 Description

This is the number of terminals with shared directory numbers which reside on this module. It is based on the RLshterm relation. It is the count of each time RLshterm shows a local terminal.

For each RLshterm tuple the count is incremented for each of the following statements when they are true.

```
RLshterm.shared1.module == current module
RLshterm.shared2.module == current module
RLshterm.shared3.module == current module
RLshterm.shared4.module == current module
```

For a maximum of four and a minimum of 0 per tuple.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Populate on all SMs */
for modatt in RLmodatt
    pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
      /* RULE about Glsdntrm.values: */
```

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```
      Glsdntrm is_in {0 thru 65535};
end
```

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# Glsdpcmvint

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsdpcmvint | LR | DMcmvint |

### 1.1 Glsdpcmvint

Global Office Parameter Glsdpcmvint

### 1.2 Description

Communication module vintage for scan and distribute points. The domain can assume the following enumeration (DMCMVINT) values:

```
SMCM1VINT - the CM hardware is Model 1 (CM1)
SMCM2VINT - the CM hardware is Model 2 (CM2)
```

Glsdpcmvint must be populated to indicate the vintage of the CM hardware, that is, Model 1 or Model 2. It must be set to SMCM1VINT if both system sides are CM1 or to SMCM2VINT if both system sides are CM2. If an office is being converted from CM1 to CM2 via Recent Change, it must only be updated after conversion is completed (Glcmconv=DBNO) and both system sides are of the same vintage.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** SMNULLVINT

***AM Initial Value:*** SMNULLVINT

***CMP Initial Value:*** SMNULLVINT

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = SMNULLVINT;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsdpcmvint.values: */
Glsdpcmvint is_in {SMCM1VINT, SMCM2VINT, SMNULLVINT};
```

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# Glsdrconv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsdrconv | FP | DMushort |

### 1.1 Fullname:

ICCV Standard Drawing Rights Conversion Factor

### 1.2 Description:

This global is used to convert US monetary units to Standard Drawing Rights (SDRs) and vice-versa for International Credit Card Validation call processing. Gl_pcrid

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 11000;
```

***Distribution Rules:***
```
        /* This global is really group partitioned, but FG cannot */
        /* be specified for global parameters, so FP is specified  */
        /* here.  The group partitioning should be:                */
        /*      RLdb_gpdus.grp_type = GPD_OSPS                     */
        /*      RLdb_gpdus.grp_id   = 4                            */
        pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
env.R,
PLgpd_defs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glsdrconv.values: */
```

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```
Glsdrconv is_in {0 thru 19999};

/* RULE about Glsdrconv: */

/* This global is zero on all SMs not belonging  */
/* to the distribution group, non-zero otherwise */begin
let bool = (count { db_gpdus in RLdb_gpdus
where (db_gpdus.grp_type == GPD_OSPS &&
    db_gpdus.grp_id == 4 &&
    db_gpdus.module == Gl_pcrid)} == 1);
if (bool == false) then
begin
        if (runucv) then
        Glsdrconv == 0;
end
else
begin
        if (runucv) then
        Glsdrconv != 0;
end
end

end
```

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# Glsec_dtone

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsec_dtone | FP | DMbool |

### 1.1 Glsec_dtone

Global Office Parameter Glsec_dtone

### 1.2 Description

This global parameter should be set to DBYES if the office supplies second dial tone. Second dial tone is a dial tone given to the subscriber between the area code and the local number. Second dial tone can be given from a local exchange and a trunk exchange. Used by Export.

***Type :*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glsec_dtone.values: */
        /* no check */ ;
```

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# Glsecmact

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsecmact | LPFP | DMbool |

### 1.1 Glsecmact

Global Office Parameter Glsecmact

### 1.2 Description

| | |
|---|---|
| True | Feature 'Subscriber Expensive Call Monitoring' active. Glsecmopt must be DBYES. |
| False | Feature 'Subscriber Expensive Call Monitoring' not active. |
| DBYES | For the Netherlands |
| DBNO | For most other countries (or non local). |

Used by Export.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glsecmact.values: */
        /* no check */ ;
```

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# Glsecmopt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsecmopt | LR | DMbool |

### 1.1 Glsecmopt

Global Office Parameter Glsecmopt

### 1.2 Description

| | |
|---|---|
| True | Feature 'Subscriber Expensive Call Monitoring' active. Glsecmact must be DBNO and not changeable. |
| False | Feature 'Subscriber Expensive Call Monitoring' not active. |
| DBYES | For the Netherlands. |
| DBNO | For most other countries. Used by Export. |

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsecmopt.values: */
        /* no check */ ;
```

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# Glsecptr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsecptr | LR | DMoapsecpr |

### 1.1 Glsecptr

Global Office Parameter Glsecptr

### 1.2 Description

This global parameter uses unsigned 7 bits for specifying the Operator Service Center (OSC) and Force Management Center (FMC) location for the security printer.

It is recent-changeable only via the security terminal.

It is used by NM subsystem and AS subsystem to forward All Pins Fail (APF) and All Cards Fail (ACF) messages to the right OSPS Administrative Processor (OAP).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsecptr.values: */
Glsecptr is_in {0, 1 thru 32,  /* for OSCs and FMCs 1-8 */
                101 thru 108};
```

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# Glsectr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsectr | LRFR | DMoapsecpr |

### 1.1 Glsectr

Global Office Parameter Glsectr

### 1.2 Description

This global parameter uses unsigned 7 bits for specifying the Operator Service Center (OSC) and Force Management Center (FMC) location for the security terminal.

It is automatically set via recent change upon the first use (logon) of the security terminal.

It is used by the AS subsystem to verify that the APF summary requests are being requested only from the security terminal.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsectr.values: */
Glsectr is_in {0, 1 thru 32, 101 thru 108};   /* for OSCs and FMCs 1-8 */
```

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# Glsegsz

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsegsz | LRFP | DMps_segsz |

### 1.1 Glsegsz

Global Office Parameter Glsegsz

### 1.2 Description:

This parameter specifies the office packet segment size, 16, 64, 128 or 256 bytes for ISDN Packet Switching. This parameter should be populated in the AM and in the ISDN Packet Switching SMs. The AM default value is SEGSZ16. For the SMs with the GLISDNBASE software loadable package, Glsegsz must be set to the value of GLsegsz in the AM. For SMs without this loadable package, set to SEGSZ16.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** SEGSZ16

***AM Initial Value:*** SEGSZ16

***CMP Initial Value:*** SEGSZ16

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = SEGSZ16;
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glsegsz.values: */
BCsegsz1:  Glsegsz is_in {SEGSZ16, SEGSZ64, SEGSZ128, SEGSZ256};

/* RULE about Glsegsz: */
if (current_pcr is_in sm_all) then
begin
        if ( Glsegsz !=  SEGSZ16 ) then
        begin
```

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```
BCsegsz2:       find == 1 lpconf in RLlpconfig
                where ( lpconf.smconfig == Glconfigname &&
                        lpconf.package == GLISDNBASE );
        end
end
```

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# Glsens1

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsens1 | FP | DMuchar |

### 1.1 Glsens1

Global Office Parameter Glsens1

### 1.2 Description

This global parameter specifies the 1 digit portion of the Switch Sensor ID used in the AMA billing of packet calls. This parameter should be populated only in all the ISDN SMs.

Therefore, for the SMs with the GLISDNBASE software loadable package, Glsens1 must be set to an appropriate value. For the SMs without the GLISDNBASE software loadable package, Glsens1 is set to 0.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
/* RULE about Glsens1.values: */
        Glsens1 is_in {0 thru 9};
/* RULE about Glsens1: */
if ( (count ( {
        lpconf in RLlpconfig
        where ( lpconf.smconfig == Glconfigname &&
```

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```
                lpconf.package == GLISDNBASE ) } ) == 0 ) ) then
>begin
        Glsens1 == 0;
end
else
begin
ORgl_1:         Glsens1 != 0;
end

end
```

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# Glsens2

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsens2 | FP | DMushort |

### 1.1 Glsens2

Global Office Parameter Glsens2

### 1.2 Description

This parameter specifies the 5 digit portion of the Switch Sensor ID used in the AMA billing of packet calls. The valid range of this parameter is 0 - 32767 This parameter should be populated only in all the ISDN SMs. Therefore, for the SMs with the GLISDNBASE software loadable package, Glsens2 must be set to an appropriate value. For the SMs without the GLISDNBASE software loadable package, Glsens2 is set to 0.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glsens2.values: */
        Glsens2 is_in {0 thru 32767};
/* RULE about Glsens2: */
if ( (count ( {
         lpconf in RLlpconfig
         where ( lpconf.smconfig == Glconfigname &&
```

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```
                 lpconf.package == GLISDNBASE ) } ) == 0 ) ) then
begin
        Glsens2 == 0;
else
begin
ORgl_1:         Glsens2 != 0;
end
end
```

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# Glseq_thnku

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glseq_thnku | FR | DMbool |

### 1.1 Glseq_thnku

Global Office Parameter Glseq_thnku

### 1.2 Description

This global parameter contains the optional ACCS thank you announcement flag for sequential validation of billing number.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBYES;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glseq_thnku.values: */
        /* no check */ ;
```

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# Glsesopt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsesopt | LRFR | DMbool |

### 1.1 Glsesopt

Global Office Parameter Glsesopt

### 1.2 Description

On retrofit, preserve existing value.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsesopt.values: */
        /* no check */ ;
```

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# Glsetrkgp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsetrkgp | LR | DMgrpnum |

### 1.1 Glsetrkgp

Global Office Parameter Glsetrkgp

### 1.2 Description

Port group number for the SES trunks. This parameter must be populated for an office with Service Evaluation. The number to be assigned is the trunk group number used as the voice link for service evaluation. The service evaluation voice link trunks have the class of service FC_SES.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsetrkgp.values: */
        /* This ODA check is added as a warning to the customer that,
         * although Glsetrkgp is defined in the office, no trunk
         * group has been inserted with service class FC_SES.
         * Since we allow the customer to do this, this warning
         * should only be a gentle reminder and not a fatal warning.
         */
               if (Glsetrkgp !=0) then
               begin
Rsetkgp1:              find == 1 rctgrprk in RLrctgrprk
                       where (rctgrprk.portgrp.grpnum == Glsetrkgp &&
                       rctgrprk.portgrp.grptype == TM_TRK);
               end
```

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# Glsf1dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf1dummy | FR | DMbool |

### 1.1 Glsf1dummy

Special Feature Global Parameter

### 1.2 Description

Glsf1dummy is reserved for use by special features.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***TRIGGER:*** FCtrgl1

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glsf1dummy.values: */
        /* no check */ ;
```

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# Glsf2dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf2dummy | FR | DMbool |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

Global Parameter reserved for future Special Feature

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***TRIGGER:*** FCtrgl2,

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsf2dummy.values: */

        /* no check */ ;
```

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# Glsf3dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf3dummy | FR | DMbool |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

Global Parameter reserved for future Special Feature

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***TRIGGER:*** FCtrgl3,

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** Glsf3dummy should then be set to DBNO.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsf3dummy.values: */

        /* no check */ ;
```

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# Glsf4dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf4dummy | FR | DMbool |

### 1.1 Glsf4dummy

Special Feature Global Parameter

### 1.2 Description

This global parameter is reserved for future a special feature.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***TRIGGER:*** FCtrgl4

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
This parameter is set on an office basis (SM redundant).
```

***Checks:***
```
/* RULE about Glsf4dummy.values: */
        /* no check */ ;
```

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# Glsf5dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf5dummy | FR | DMbool |

### 1.1 Glsf5dummy

Special Feature Global Parameter

### 1.2 Description

This global parameter is reserved for future a special feature.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***TRIGGER:*** FCtrgl5

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glsf5dummy.values: */
        /* no check */ ;
```

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# Glsf6dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf6dummy | FR | DMbool |

### 1.1 Glsf6dummy

Special Feature Global Parameter

### 1.2 Description

This global parameter reserved for a future special feature.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***TRIGGER:*** FCtrgl6

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glsf6dummy.values: */
        /* no check */ ;
```

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# Glsf7dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf7dummy | FR | DMlong |

### 1.1 Glsf7dummy

Special Feature Global Parameter

### 1.2 Description

This global parameter is reserved for a future special feature.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** FCtrgl7

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glsf7dummy.values: */
        /* no check */ ;
```

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# Glsf8dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf8dummy | FR | DMlong |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is a spare which is reserved for future use.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** FCtrgl8,

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Not Applicable

***Retrofit Rules:*** This value should be reset to default for 5e14

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsf8dummy.values: */
```

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# Glsf9dummy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf9dummy | FR | DMlong |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.a

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** FCtrgl9,

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:***

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsf9dummy.values: */


/* RULE about Glsf9dummy: */

/* not applicable */
        /* no check */ ;
```

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# Glsf11dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf11dumm | LRFR | DMbool |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is a spare resource.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***TRIGGER:*** RTtrgl11,

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsf11dumm.values: */
```

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# Glsf12dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf12dumm | LRFR | DMbool |

### 1.1 Glsf12dumm

Special Feature Global Parameter

### 1.2 Description

This parameter is a spare resource.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***TRIGGER:*** RTtrgl12

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsf12dumm.values: */
        /* no check */ ;
```

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# Glsf13dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf13dumm | LRFR | DMbool |

### 1.1 Glsf13dumm

Special Feature Global Parameter

### 1.2 Description

This global parameter is reserved for a future special feature.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***TRIGGER:*** RTtrgl13

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glsf13dumm.values: */
        /* no check */ ;
```

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# Glsf14dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf14dumm | LRFR | DMbool |

### 1.1 Glsf14dumm

Special Feature Global Parameter

### 1.2 Description

This global parameter reserved for a future special feature.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***TRIGGER:*** RTtrgl14

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glsf14dumm.values: */
        /* no check */ ;
```

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# Glsf15dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf15dumm | LRFR | DMulong |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***TRIGGER:*** RTtrgl15,

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsf15dumm.values: */

        /* no check */ ;
```

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# Glsf16dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf16dumm | LRFR | DMulong |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

—

***Type:*** DBULONGPAR

***ODBE Access:***

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***TRIGGER:*** RTtrgl16,

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Not applicable.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsf16dumm.values: */
        /* no check */ ;
```

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# Glsf20dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf20dumm | LRFR | DMhex32 |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This is a special feature global parameter.

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0x0

***AM Initial Value:*** 0x0

***CMP Initial Value:*** 0x0

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = 0x0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsf20dumm.values: */
        /* No checks */
```

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# Glsf21dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf21dumm | LRFR | DMhex32 |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This is a special feature global parameter.

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0x0

***AM Initial Value:*** 0x0

***CMP Initial Value:*** 0x0

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = 0x0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf21dumm.values: */
```

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# Glsf22dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf22dumm | LRFR | DMhex32 |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This is a special feature global parameter.

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0x0

***AM Initial Value:*** 0x0

***CMP Initial Value:*** 0x0

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = 0x0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf22dumm.values: */
```

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# Glsf23dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf23dumm | LRFR | DMhex32 |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This is a special feature global parameter.

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0x0

***AM Initial Value:*** 0x0

***CMP Initial Value:*** 0x0

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = 0x0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf23dumm.values: */
```

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# Glsf24dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf24dumm | LRFR | DMhex32 |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This is a special feature global parameter.

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0x0

***AM Initial Value:*** 0x0

***CMP Initial Value:*** 0x0

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = 0x0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf24dumm.values: */
```

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# Glsf30dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf30dumm | FR | DMbool |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

Glsf30dumm is reserved for use by special features.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf30dumm.values: */
```

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# Glsf31dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf31dumm | FR | DMbool |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

Glsf31dumm is reserved for use by special features.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf31dumm.values: */
```

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# Glsf32dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf32dumm | FR | DMbool |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

Glsf32dumm is reserved for use by special features.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf32dumm.values: */
```

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# Glsf33dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf33dumm | FR | DMbool |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

Glsf33dumm is reserved for use by special features.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf33dumm.values: */
```

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# Glsf34dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf34dumm | FR | DMbool |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

Glsf34dumm is reserved for use by special features.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf34dumm.values: */
```

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# Glsf40dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf40dumm | FR | DMlong |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf40dumm.values: */
```

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# Glsf41dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf41dumm | FR | DMlong |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf41dumm.values: */
```

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# Glsf42dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf42dumm | FR | DMlong |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf42dumm.values: */
```

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# Glsf43dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf43dumm | FR | DMlong |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf43dumm.values: */
```

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# Glsf44dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf44dumm | FR | DMlong |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf44dumm.values: */
```

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# Glsf50dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf50dumm | LRFR | DMbool |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is a spare resource.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf50dumm.values: */
```

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# Glsf51dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf51dumm | LRFR | DMbool |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is a spare resource.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf51dumm.values: */
```

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# Glsf52dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf52dumm | LRFR | DMbool |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is a spare resource.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf52dumm.values: */
```

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# Glsf53dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf53dumm | LRFR | DMbool |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is a spare resource.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf53dumm.values: */
```

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# Glsf54dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf54dumm | LRFR | DMbool |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is a spare resource.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf54dumm.values: */
```

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# Glsf60dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf60dumm | FR | DMdn |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.

The 10-digit DN will be of the form NXX-NXX-XXXX where N=2-9 and X=0-9.

***Type:*** DBDN_PAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** {0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default.dn     = "";
default.digcnt = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***
```
/* No Checks */
```

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# Glsf61dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf61dumm | FR | DMdn |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.

The 10-digit DN will be of the form NXX-NXX-XXXX where N=2-9 and X=0-9.

***Type:*** DBDN_PAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** {0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default.dn     = "";
default.digcnt = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
        /* RULE about Glsf61dumm.values: */
```

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# Glsf62dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf62dumm | FR | DMdn |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.

The 10-digit DN will be of the form NXX-NXX-XXXX where N=2-9 and X=0-9.

***Type:*** DBDN_PAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** {0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***

```
default.dn     = "";
default.digcnt = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
        /* RULE about Glsf62dumm */
```

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# Glsf63dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf63dumm | FR | DMdn |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.

The 10-digit DN will be of the form NXX-NXX-XXXX where N=2-9 and X=0-9.

***Type:*** DBDN_PAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** {0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***

```
default.dn     = "";
default.digcnt = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* No Checks */
```

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# Glsf64dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf64dumm | FR | DMdn |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.

The 10-digit DN will be of the form NXX-NXX-XXXX where N=2-9 and X=0-9.

***Type:*** DBDN_PAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** {0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default.dn     = "";
default.digcnt = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* No Checks */
```

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# Glsf70dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf70dumm | FP | DMlong |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
        /* RULE about Glsf70dumm.values: */
```

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# Glsf71dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf71dumm | FP | DMlong |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
        /* RULE about Glsf71dumm: */
```

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# Glsf72dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf72dumm | FP | DMlong |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
        /* RULE about Glsf72dumm.values: */
```

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# Glsf73dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf73dumm | FP | DMlong |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
        /* RULE about Glsf73dumm.values: */
```

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# Glsf74dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf74dumm | FP | DMlong |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
        /* RULE about Glsf74dumm.values: */
```

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# Glsf75dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf75dumm | LR | DMlong |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf75dumm.values: */
```

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# Glsf76dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf76dumm | LR | DMlong |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf76dumm.values: */
```

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# Glsf77dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf77dumm | LR | DMlong |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofits.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf77dumm.values: */
```

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# Glsf78dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf78dumm | LR | DMlong |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf78dumm.values: */
```

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# Glsf79dumm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsf79dumm | LR | DMlong |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter is reserved for a future special feature.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***

***Retrofit Rules:*** Preserve over the retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
        /* RULE about Glsf79dumm.values: */
```

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# Glsfi_sw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfi_sw | FR | DMsfi_sw |

### 1.1 Fullname:

Global Office Parameter Glsfi_sw

### 1.2 Description:

This parameter contains the minimum interval in days that Routine EXercise (REX) is permitted to run without switching the STSX-1 Facility Interfaces (SFI) or OC-3 Facility Interface (OFI). A value of 0 means never switch.

***Type:*** DBSHORTPAR

***ODBE Access:*** ---

***DBGEN:*** ---

***Classification:*** ---

***IOTYPE:*** ---

***SM Initial Value:*** 28

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** None.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 28;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfi_sw: */

/*
 * There is nothing to check since the parameter
 * is limited to the range of the domain.
 */
```

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# Glsfm0

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm0 | LRFR | DMunlong |

### 1.1 Glsfm0

Global Office Parameter Glsfm0

### 1.2 Description

This global parameter is used by the SFSSS for 5E5 and later generics.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** For new start offices, ODA should populate this parameter according to the attachment to the letter from Ms. J. A. Rinehart to Mr. Joe Rosen, August 4, 1988.

***Retrofit Rules:*** In a retrofit from 5E4(2) to 5E5:

(1) Copy Glcp3dummy to Glsfm0 on the AM

(2) Copy Glim3dummy to Glsfm0 on all SMs

In a retrofit from 5E5 to 5E6 or later:

(1) Recover Glsfm0 on the AM

(2) Copy Glsfm0 from the AM to the CMP

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsfm0.values: */
```

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```
        /* no check */ ;
```

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# Glsfm1

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm1 | LRFR | DMunlong |

### 1.1 Glsfm1

Global Office Parameter Glsfm1

### 1.2 Description

This global parameter is used by the SFSSS for 5E5 and later generics.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** For new start offices, ODA should populate this parameter according to the attachment to the letter from Ms. J. A. Rinehart to Mr. Joe Rosen, August 4, 1988.

***Retrofit Rules:*** In a retrofit from 5E4(2) to 5E5:

(1) Initialize Glsfm1 to the default value

In a retrofit from 5E5 to 5E6 or later:

(1) Recover Glsfm1 on the AM

(2) Copy Glsfm1 from the AM to the CMP

(3) Copy Glsfm1 from the AM to all SMs

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsfm1.values: */
```

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```
Glsfm1 is_in {0 thru 0x7fffffff};
```

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# Glsfm2

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm2 | LRFR | DMunlong |

### 1.1 Glsfm2

Global Office Parameter Glsfm2

### 1.2 Description

This global parameter is used by the SFSSS for 5E5 and later generics.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** For new start offices, ODA should populate this parameter according to the attachment to the letter from Ms. J. A. Rinehart to Mr. Joe Rosen, August 4, 1988.

***Retrofit Rules:*** In a retrofit from 5E4(2) to 5E5:

(1) Initialize Glsfm2 to the default value

In a retrofit from 5E5 to 5E6 or later:

(1) Recover Glsfm2 on the AM

(2) Copy Glsfm2 from the AM to the CMP

(3) Copy Glsfm2 from the AM to all SMs

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsfm2.values: */
```

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```
Glsfm2 is_in {0 thru 0x7fffffff};
```

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# Glsfm3

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm3 | LRFR | DMunlong |

### 1.1 Glsfm3

Global Office Parameter Glsfm3

### 1.2 Description

This global parameter is used by the SFSSS for 5E5 and later generics.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** None

***Retrofit Rules:*** In a retrofit from 5E4(2) to 5E5:

(1) Initialize Glsfm3 to the default value

In a retrofit from 5E5 to 5E6 or later:

(1) Recover Glsfm3 on the AM

(2) Copy Glsfm3 from the AM to the CMP

(3) Copy Glsfm3 from the AM to all SMs

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsfm3.values: */
Glsfm3 is_in {0 thru 0x7fffffff};
```

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# Glsfm4

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm4 | LRFR | DMunlong |

### 1.1 Glsfm4

Global Office Parameter Glsfm4

### 1.2 Description

This global parameter is used by the SFSSS for 5E5 and later generics.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** For new start offices, ODA should populate this parameter according to the attachment to the letter from Ms. J. A. Rinehart to Mr. Joe Rosen, August 4, 1988.

***Retrofit Rules:*** In a retrofit from 5E4(2) to 5E5:

(1) Initialize Glsfm4 to the default value

In a retrofit from 5E5 to 5E6 or later:

(1) Recover Glsfm4 on the AM

(2) Copy Glsfm4 from the AM to the CMP

(3) Copy Glsfm4 from the AM to all SMs

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsfm4.values: */
```

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```
Glsfm4 is_in {0 thru 0x7fffffff};
```

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# Glsfm5

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm5 | LRFR | DMunlong |

### 1.1 Glsfm5

Global Office Parameter Glsfm5

### 1.2 Description

This global parameter is used by the SFSSS for 5E5 and later generics.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** For new start offices, ODA should populate this parameter according to the attachment to the letter from Ms. J. A. Rinehart to Mr. Joe Rosen, August 4, 1988.

***Retrofit Rules:*** In a retrofit from 5E4(2) to 5E5:

(1) Initialize Glsfm5 to the default value

In a retrofit from 5E5 to 5E6 or later:

(1) Recover Glsfm5 on the AM

(2) Copy Glsfm5 from the AM to the CMP

(3) Copy Glsfm5 from the AM to all SMs

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsfm5.values: */
```

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```
Glsfm5 is_in {0 thru 0x7fffffff};
```

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# Glsfm6

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm6 | LRFR | DMunlong |

### 1.1 Glsfm6

Global Office Parameter Glsfm6

### 1.2 Description

This global parameter is used by the SFSSS for 5E5 and later generics.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** For new start offices, ODA should populate this parameter according to the attachment to the letter from Ms. J. A. Rinehart to Mr. Joe Rosen, August 4, 1988.

***Retrofit Rules:*** In a retrofit from 5E4(2) to 5E5:

(1) Initialize Glsfm6 to the default value

In a retrofit from 5E5 to 5E6 or later:

(1) Recover Glsfm6 on the AM

(2) Copy Glsfm6 from the AM to the CMP

(3) Copy Glsfm6 from the AM to all SMs

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsfm6.values: */
```

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```
Glsfm6 is_in {0 thru 0x7fffffff};
```

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# Glsfm7

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm7 | LRFR | DMunlong |

### 1.1 Glsfm7

Global Office Parameter Glsfm7

### 1.2 Description

This global parameter is used by the SFSSS for 5E5 and later generics.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** For new start offices, ODA should populate this parameter according to the attachment to the letter from Ms. J. A. Rinehart to Mr. Joe Rosen, August 4, 1988.

***Retrofit Rules:*** In a retrofit from 5E4(2) to 5E5:

(1) Initialize Glsfm7 to the default value

In a retrofit from 5E5 to 5E6 or later:

(1) Recover Glsfm7 on the AM

(2) Copy Glsfm7 from the AM to the CMP

(3) Copy Glsfm7 from the AM to all SMs

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsfm7.values: */
```

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```
Glsfm7 is_in {0 thru 0x7fffffff};
```

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# Glsfm8

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm8 | LRFR | DMunlong |

### 1.1 Glsfm8

Global Office Parameter Glsfm8

### 1.2 Description

This global parameter is used by the SFSSS for 5E5 and later generics.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** For new start offices, ODA should populate this parameter according to the attachment to the letter from Ms. J. A. Rinehart to Mr. Joe Rosen, August 4, 1988.

***Retrofit Rules:*** In a retrofit from 5E4(2) to 5E5:

(1) Initialize Glsfm8 to the default value

In a retrofit from 5E5 to 5E6 or later:

(1) Recover Glsfm8 on the AM

(2) Copy Glsfm8 from the AM to the CMP

(3) Copy Glsfm8 from the AM to all SMs

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsfm8.values: */Glsfm8 is_in {0 thru 0x7fffffff};
```

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# Glsfm9

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm9 | LRFR | DMunlong |

### 1.1 Glsfm9

Global Office Parameter Glsfm9

### 1.2 Description

This global parameter is used by the SFSSS for 5E5 and later generics.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** For new start offices, ODA should populate this parameter according to the attachment to the letter from Ms. J. A. Rinehart to Mr. Joe Rosen, August 4, 1988.

***Retrofit Rules:*** In a retrofit from 5E4(2) to 5E5:

(1) Initialize Glsfm9 to the default value

In a retrofit from 5E5 to 5E6 or later:

(1) Recover Glsfm9 on the AM

(2) Copy Glsfm9 from the AM to the CMP

(3) Copy Glsfm9 from the AM to all SMs

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsfm9.values: */
```

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```
Glsfm9 is_in {0 thru 0x7fffffff};
```

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# Glsfm10

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm10 | LRFR | DMunlong |

### 1.1 Glsfm10

Global Office Parameter Glsfm10

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm10 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsfm10.values: */
        /* no check */ ;
```

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# Glsfm11

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm11 | LRFR | DMunlong |

### 1.1 Glsfm11

Global Office Parameter Glsfm11

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm11 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsfm11.values: */
/* no check */ ;
```

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# Glsfm12

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm12 | LRFR | DMunlong |

### 1.1 Glsfm12

Global Office Parameter Glsfm12

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm12 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
       /* standard */
```

***Checks:***

```
/* RULE about Glsfm12.values: */
/* no check */ ;
```

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# Glsfm13

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm13 | LRFR | DMunlong |

### 1.1 Glsfm13

Global Office Parameter Glsfm13

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm13 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm13.values: */
        /* no check */ ;
```

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# Glsfm14

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm14 | LRFR | DMunlong |

### 1.1 Glsfm14

Global Office Parameter Glsfm14

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm14 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm14.values: */
        /* no check */ ;
```

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# Glsfm15

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm15 | LRFR | DMunlong |

### 1.1 Glsfm15

Global Office Parameter Glsfm15

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm15 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm15.values: */
/* no check */
```

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# Glsfm16

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm16 | LRFR | DMunlong |

### 1.1 Glsfm16

Global Office Parameter Glsfm16

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm16 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm16.values: */
/* no check */ ;
```

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# Glsfm17

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm17 | LRFR | DMunlong |

### 1.1 Glsfm17

Global Office Parameter Glsfm17

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm17 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm17.values: */
/* no check */ ;
```

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# Glsfm18

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm18 | LRFR | DMunlong |

### 1.1 Glsfm18

Global Office Parameter Glsfm18

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm18 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

***Checks:***

```
/* RULE about Glsfm18.values: */
/* no check */ ;
```

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# Glsfm19

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm19 | LRFR | DMunlong |

### 1.1 Glsfm19

Global Office Parameter Glsfm19

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm19 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm19.values: */
       /* no check */ ;
```

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# Glsfm20

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm20 | LRFR | DMunlong |

### 1.1 Glsfm20

Global Office Parameter Glsfm20

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm20 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsfm20.values: */
/* no check */ ;
```

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# Glsfm21

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm21 | LRFR | DMunlong |

### 1.1 Glsfm21

Global Office Parameter Glsfm21

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm21 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm21.values: */
/* no check */ ;
```

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# Glsfm22

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm22 | LRFR | DMunlong |

### 1.1 Glsfm22

Global Office Parameter Glsfm22

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm22 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm22.values: */
/* no check */ ;
```

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# Glsfm23

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm23 | LRFR | DMunlong |

### 1.1 Glsfm23

Global Office Parameter Glsfm23

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm23 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm23.values: */
/* no check */ ;
```

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# Glsfm24

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm24 | LRFR | DMunlong |

### 1.1 Glsfm24

Global Office Parameter Glsfm24

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm24 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm24.values: */
/* no check */ ;
```

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# Glsfm25

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm25 | LRFR | DMunlong |

### 1.1 Glsfm25

Global Office Parameter Glsfm25

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm25 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsfm25.values: */
/* no check */ ;
```

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# Glsfm26

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm26 | LRFR | DMunlong |

### 1.1 Glsfm26

Global Office Parameter Glsfm26

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm26 to the default value. In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsfm26.values: */
/* no check */ ;
```

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# Glsfm27

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm27 | LRFR | DMunlong |

### 1.1 Glsfm27

Global Office Parameter Glsfm27

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm27 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* stndard */
```

***Checks:***

```
/* RULE about Glsfm27.values: */
/* no check */ ;
```

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# Glsfm28

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm28 | LRFR | DMunlong |

### 1.1 Glsfm28

Global Office Parameter Glsfm28

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm28 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm28.values: */
/* no check */ ;
```

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# Glsfm29

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm29 | LRFR | DMunlong |

### 1.1 Glsfm29

Global Office Parameter Glsfm29

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm29 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm29.values: */
/* no check */ ;
```

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# Glsfm30

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm30 | LRFR | DMunlong |

### 1.1 Glsfm30

Global Office Parameter Glsfm30

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm30 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm30.values: */
/* no check */ ;
```

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# Glsfm31

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm31 | LRFR | DMunlong |

### 1.1 Glsfm31

Global Office Parameter Glsfm31

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm31 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm31.values: */
/* no check */ ;
```

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# Glsfm32

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm32 | LRFR | DMunlong |

### 1.1 Glsfm32

Global Office Parameter Glsfm32

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm32 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm32.values: */
/* no check */ ;
```

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# Glsfm33

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm33 | LRFR | DMunlong |

### 1.1 Glsfm33

Global Office Parameter Glsfm33

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm33 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm33.values: */
/* no check */ ;
```

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# Glsfm34

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm34 | LRFR | DMunlong |

### 1.1 Glsfm34

Global Office Parameter Glsfm34

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm34 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm34.values: */
/* no check */ ;
```

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# Glsfm35

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm35 | LRFR | DMunlong |

### 1.1 Glsfm35

Global Office Parameter Glsfm35

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm35 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm35.values: */
/* no check */ ;
```

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# Glsfm36

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm36 | LRFR | DMunlong |

### 1.1 Glsfm36

Global Office Parameter Glsfm36

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm36 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm36.values: */
/* no check */ ;
```

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# Glsfm37

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm37 | LRFR | DMunlong |

### 1.1 Glsfm37

Global Office Parameter Glsfm37

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm37 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm37.values: */
/* no check */ ;
```

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# Glsfm38

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm38 | LRFR | DMunlong |

### 1.1 Glsfm38

Global Office Parameter Glsfm38

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm38 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsfm38.values: */
/* no check */ ;
```

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# Glsfm39

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm39 | LRFR | DMunlong |

### 1.1 Glsfm39

Global Office Parameter Glsfm39

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm39 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm39.values: */
/* no check */ ;
```

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# Glsfm40

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm40 | LRFR | DMunlong |

### 1.1 Glsfm40

Global Office Parameter Glsfm40

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm40 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm40.values: */
/* no check */ ;
```

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# Glsfm41

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm41 | LRFR | DMunlong |

### 1.1 Glsfm41

Global Office Parameter Glsfm41

### 1.2 Description

This global parameter is used by the Special Feature Software Security System (SFSSS) for 5E9 and later Software Releases.

***Type :*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E8 to 5E9, ODA should initialize Glsfm41 to the default value.

In a retrofit from 5E9 to 5E10 or later, ODA should carry the value forward.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsfm41.values: */
/* no check */ ;
```

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# Glsfm42

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm42 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm42

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm42 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm42.values: */
        /* no check */ ;
```

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# Glsfm43

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm43 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm43

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm43 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm43.values: */
        /* no check */ ;
```

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# Glsfm44

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm44 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm44

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm44 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm44.values: */
        /* no check */ ;
```

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# Glsfm45

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm45 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm45

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm45 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm45.values: */
        /* no check */ ;
```

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# Glsfm46

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm46 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm46

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm46 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm46.values: */
        /* no check */ ;
```

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# Glsfm47

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm47 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm47

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm47 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm47.values: */
        /* no check */ ;
```

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# Glsfm48

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm48 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm48

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm48 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm48.values: */
        /* no check */ ;
```

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# Glsfm49

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm49 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm49

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm49 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm49.values: */
        /* no check */ ;
```

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# Glsfm50

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm50 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm50

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm50 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm50.values: */
        /* no check */ ;
```

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# Glsfm51

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm51 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm51

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm51 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm51.values: */
        /* no check */ ;
```

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# Glsfm52

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm52 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm52

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm52 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm52.values: */
        /* no check */ ;
```

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# Glsfm53

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm53 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm53

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm53 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm53.values: */
        /* no check */ ;
```

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# Glsfm54

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm54 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm54

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm54 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm54.values: */
        /* no check */ ;
```

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# Glsfm55

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm55 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm55

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm55 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm55.values: */
        /* no check */ ;
```

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# Glsfm56

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm56 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm56

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm56 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm56.values: */
        /* no check */ ;
```

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# Glsfm57

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm57 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm57

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm57 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm57.values: */
        /* no check */ ;
```

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# Glsfm58

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm58 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm58

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm58 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm58.values: */
        /* no check */ ;
```

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# Glsfm59

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm59 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm59

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm59 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm59.values: */
        /* no check */ ;
```

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# Glsfm60

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm60 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm60

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm60 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm60.values: */
        /* no check */ ;
```

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# Glsfm61

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm61 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm61

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm61 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm61.values: */
        /* no check */ ;
```

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# Glsfm62

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm62 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm62

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm62 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm62.values: */
        /* no check */ ;
```

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# Glsfm63

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm63 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm63

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm63 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm63.values: */
        /* no check */ ;
```

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# Glsfm64

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm64 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm64

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm64 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm64.values: */
        /* no check */ ;
```

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# Glsfm65

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm65 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm65

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm65 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm65.values: */
        /* no check */ ;
```

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# Glsfm66

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm66 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm66

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm66 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm66.values: */
        /* no check */ ;
```

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# Glsfm67

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm67 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm67

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm67 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm67.values: */
        /* no check */ ;
```

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# Glsfm68

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm68 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm68

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm68 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm68.values: */
        /* no check */ ;
```

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# Glsfm69

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm69 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm69

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm69 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm69.values: */
        /* no check */ ;
```

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# Glsfm70

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm70 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm70

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm70 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm70.values: */
        /* no check */ ;
```

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# Glsfm71

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm71 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm71

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm71 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm71.values: */
        /* no check */ ;
```

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# Glsfm72

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm72 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm72

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm72 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm72.values: */
        /* no check */ ;
```

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# Glsfm73

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm73 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm73

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm73 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm73.values: */
        /* no check */ ;
```

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# Glsfm74

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm74 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm74

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm74 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm74.values: */
        /* no check */ ;
```

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# Glsfm75

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm75 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm75

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm75 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm75.values: */
        /* no check */ ;
```

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# Glsfm76

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm76 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm76

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm76 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm76.values: */
        /* no check */ ;
```

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# Glsfm77

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm77 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm77

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm77 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm77.values: */
        /* no check */ ;
```

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# Glsfm78

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm78 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm78

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm78 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm78.values: */
        /* no check */ ;
```

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# Glsfm79

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm79 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm79

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm79 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm79.values: */
        /* no check */ ;
```

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# Glsfm80

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm80 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm80

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm80 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm80.values: */
        /* no check */ ;
```

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# Glsfm81

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm81 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm81

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm81 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm81.values: */
        /* no check */ ;
```

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# Glsfm82

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsfm82 | LRFR | DMunlong |

### 1.1 Fullname:

Global Office Parameter Glsfm82

### 1.2 Description:

This parameter is used by the Special Feature Software Security System (SFSSS) for 5E13 and later Software Releases.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC should populate this parameter based on the SFSSS algorithm.

***Retrofit Rules:*** In a retrofit from 5E12 to 5E13, ODA should initialize Glsfm82 to the default value. In a retrofit from 5E13 to 5E14 or later, ODA should carry the value forward.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsfm82.values: */
        /* no check */ ;
```

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# Glsh_tgct

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsh_tgct | LR | DMushort |

### 1.1 Glsh_tgct

Speech Handler Trunk Groups count

### 1.2 Description

This global parameter counts the number of Speech Handler (SH) and Autople Data (ADT) trunk groups in an office.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Not applicable.

***Retrofit Rules:*** Not applicable.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* Count the number of RLrctgrprk tuples in the office
 * with SH and ADT servclass, and assign this value to this
 * global parameter.
 */
Glsh_tgct == count {rctgrprk in RLrctgrprk
                     where (rctgrprk.servclass is_in {PSAPXSH, PSADT}) };
```

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# Glshanal

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glshanal | FP | DMushort |

### 1.1 Glshanal

Global Office Parameter Glshanal

### 1.2 Description

Glshanal is the number of shared analog terminals on this module. This is determined from the RLfc_porttyp relation. It is the total count of all the tuples in RLfc_porttyp where (RLfc_porttyp.sh_analog == DBYES) If there are no RLfc_porttyp tuples which match the above criteria, Glshanal should be set to 0.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
   /* RULE about Glshanal.values: */
   Glshanal is_in {0 thru 65535};
end
```

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# Glsigiopt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsigiopt | FR | DMbool |

### 1.1 Glsigiopt

Global Office Parameter Glsigiopt

### 1.2 Description

Office parameter for Signaling Irregularities capability. Whenever the generic is installed, the default value is DBYES (investigate all calls); and subsequently the parameter should retain the value changed most recently by RC/V.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBYES;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsigiopt.values: */
/* no check */ ;
```

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# Glsitrig

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsitrig | FR | DMuns8 |

### 1.1 Glsitrig

Shared Interoffice Trigger

### 1.2 Description

On a per office basis, a trigger number for Shared Interoffice triggers must be administerable via RC/ODA procedures.

CHECKS

```
if ( Glsitrig is greater than 0) then
begin
       Glpvn_ofc must be DBPVN_SSP
       must find a tuple in RLns_trig
       where Glsitrig equals RLns_trig.trignum
       when found
       begin
                RLns_trig.app_typ must be FCAPASP
       end
end
```

R_001: if ( Glpvn_ofc equals DBPVN_SSP ) then begin Glsitrig must_not_equal 0; end

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 255

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** if ( Glsitrig is greater than 0) then Glpvn_ofc must be DBPVN_SSP must find a tuple in RLns_trig where Glsitrig equals RLns_trig.trignum when found RLns_trig.app_typ must be FCAPASP end end

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

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***Checks:***

```
/* RULE about Glsitrig.values: */
/* no check */ ;
```

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# Glsle_mode

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsle_mode | FR | DMbool |

### 1.1 Fullname:

Global Office Parameter Glsle_mode

### 1.2 Description:

This parameter specifies the mode that LASS SLE would operate when invoked. When set to DBNO SLE will operate its 5E6 version, when set to DBYES it will perform its 5E7 (Bellcore standards) version. Sets of announcements phrases needed by both versions during an SLE session are on the same DSU2-RAF board set:

| mbd1_mc / LIST# | mbd2_mc / LIST# | mbd3_mc / LIST# |
|---|---|---|
| 5D142A20 L22 | 5D143A30 L23 | null entry |

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** ODA should check the transparent feature option RCFOP036 if it is set to DBYES, Glsle_mode should be set to DBYES.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsle_mode.values: */
        /* no check */ ;
```

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# Glsle_r

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsle_r | FR | DMuchar |

### 1.1 Glsle_r

Global Office Parameter Glsle_r

### 1.2 Description

This global parameter specifies the maximum number of seconds to wait for a response to an attempt to validate QUERY using CCS

***Type :*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 9

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 3;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glsle_r.values: */
Glsle_r is_in {1 thru 10};
```

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# Glsleraf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsleraf | FR | DMushort |

### 1.1 Glsleraf

Number of RAF members in SLE announcement logical service group.

### 1.2 Description

This global is used to keep a count of the number of members of the SLE Logical Service Group (LSG) which are from RAFs, as opposed to from SASs. It is updated every time a RAF member is added or removed from the SLE LSG.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global is read-only on RC/V view 5.1. It is updated internally from RC/V view 5.5 every time a member is added or removed from the LSG.

***Retrofit Rules:*** None.

***Default Rules:*** none

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
        for rt_fixedri in RLrt_fixedri
        where (rt_fixedri.ritype == RT_SLE)
        begin
                find == 1 rt_routing in RLrt_routing
                    where (rt_fixedri.ri == rt_routing.route_x)
                when_found
                begin
                        find == 1 rt_trkg in RLrt_trkg
                            where (rt_trkg.grpnum == rt_routing.portgrp.grpnum)
                        when_found
sas_92_1:                   Glsleraf == rt_trkg.raf_mbrs;
                end
```

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```
end
```

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# Glslerr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glslerr | FR | DMuchar |

### 1.1 Glslerr

Global Office Parameter Glslerr

### 1.2 Description

This global parameter specifies the number of errors which will cause a Screen List Editing (SLE) session to terminate.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 4;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glslerr.values: */
Glslerr is_in {0 thru 4};
```

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# Glslots_ts

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glslots_ts | LRFR | DMshort |

### 1.1 Glslots_ts

Global Office Parameter Glslots_ts

### 1.2 Description

ISLU-Z is not currently supported for domestic applications. This global parameter is used by Generalized Ringing for ISLU-Z RG allocation. Glslots_ts is the number of 50 ms intervals in the ringing time slot. The value used by domestic is 10.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 10

***CMP Initial Value:*** 10

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glslots_ts.values: */
Glslots_ts is_in {8 thru 60};
```

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# Glsmacd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsmacd | FP | DMbool |

### 1.1 Fullname:

Global Office Parameter Glsmacd

### 1.2 Description:

This parameter specifies whether the OSPS Commercial ACD data link feature is on for the SM. DBYES means the data link is used on this SM DBNO means no link is equipped.

This parameter must be DBNO unless this is a loaded SM and the parameter Gl_cacd has the value DBYES.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glsmacd.values: */

        /* no check */ ;

/* RULE about Glsmacd: */
```

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```
if (current_pcr is_in sm_all) then
begin
        if ((count({lpconf in RLlpconfig
                where (lpconf.smconfig == Glconfigname &&
                    lpconf.package == GLOPSMDAAC)}) == 0)
                || (Gl_cacd == DBNO)) then
        begin
                if (runucv) then
                Glsmacd == DBNO;
        end
end
```

# Glsmdnucnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsmdnucnt | FP | DMshort |

### 1.1 Glsmdnucnt

Global Office Parameter Glsmdnucnt

### 1.2 Description

This parameter contains the number of digital networking unit-SONET (DNU-S)s in an SM. DNU-Ss may only be equipped in an SM-2000.

***Type:*** DBSHORTPAR

***ODBE Access:*** ---

***DBGEN:*** ---

***Classification:*** EQUIPMENT

***IOTYPE:*** ---

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** /* none */

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glsmdnucnt: */

/* There is one tuple in RLno_picb per DNU-S. */
        for modatt in RLmodatt
        where (modatt.unittype == SMSM2000)
        begin
                let smdnucnt=
                        count { no_picb in RLno_picb on sm(modatt.module)
```

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```
                        where (no_picb.unittype == SMDNU_S)};
                Glsmdnucnt is_in { 0 thru 4};
        end
/* There is a max of AVMAXDNU per SM-2000 */
Glsmdnucnt is_in { 0 thru 4 };

end
```

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# Glsmfacpm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsmfacpm | FP | DMbool |

### 1.1 Glsmfacpm

Switching Module Allow Status of DS1 Facility Performance Monitoring

### 1.2 Description

This global parameter indicates whether DS1 facility performance monitoring is allowed, on a per switching module basis.

DBYES means that DS1 performance monitoring is allowed on this SM.

DBNO means that DS1 performance monitoring is inhibited on this SM.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** This parameter is not recent changeable or and cannot be set by ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBYES;
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glsmfacpm.values: */
/* no check */ ;
```

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# Glsmmis

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsmmis | FP | DMbool |

### 1.1 Glsmmis

Global Office Parameter Glsmmis

### 1.2 Description

This office parameter is used to indicate if U-DSL Network Termination (NT) automatic mismatch detection is turned on or off for an SM. This parameter is to be populated in all the SMs.

This parameter will be changed through TM software. TM will provide the switch personnel, the ability to inhibit and allow U-DSL NT automatic mismatch detection on a SM basis through a new input message.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBYES;
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glsmmis.values: */
/* no check */ ;
```

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# Glsmpctcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsmpctcnt | FP | DMshort |

### 1.1 Fullname:

Global Office Parameter Glsmpctcnt

### 1.2 Description:

This global parameter contains the number of Peripheral Control and Timing (PCT) links equipped in an SM. PCT links may only be equipped in an SM-2000.

***Type:*** DBSHORTPAR

***ODBE Access:***

***DBGEN:***

***Classification:*** EQUIPMENT

***IOTYPE:*** ---

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** None.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
usp5defs.R,
rlindx2ckt.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glsmpctcnt: */

/* In an attempt to common this code, I am changing
 * the rule in US to match the INTL version.  I found no
```

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```
 * user's of this global in US, and the INTL version does
 * not need to be updated with each new pct-based peripheral added.
 *
 * Since there is one tuple in RLlnk_use for each
 * duplex PCT link pair, we only need to count the
 * tuples where the lnk_use.use == TS_PLI
 * to find out how many PCT links are in use.
 */

Glsmpctcnt == count { lnk_use in RLlnk_use
                        where (lnk_use.use == TS_PLI) };

Glsmpctcnt is_in { 0 thru Glsmpctmax };

end
```

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# Glsmpctmax

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsmpctmax | FP | DMshort |

### 1.1 Fullname:

Global Office Parameter Glsmpctmax

### 1.2 Description:

This parameter contains the maximum number of Peripheral Control and Timing (PCT) links that are able to be equipped in an SM. PCT links may only be equipped in an SM-2000. This variable is not used on non-SM-2000 but it will be set to the same default value; however the validity check will only be made for SM-2000. (See Glpli_map/Glpli1_map also for more information on this parameter's usage).

***NOTE:*** A change to Glsmpctmax value requires a corresponding change to the same maximum value reflected in the Glpli_map and Glpli1_map poprules.

***Type:*** DBSHORTPAR

***ODBE Access:*** ---

***DBGEN:*** ---

***Classification:*** EQUIPMENT

***IOTYPE:*** ---

***SM Initial Value:*** 36

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** None.

***Retrofit Rules:***

```
/* Rule for retrofiting to 5E13_1Y generic */
if (current_pcr is_in sm_all) then
begin
     if (SM2000(current_pcr)) then
     begin
        Glsmpctmax == 36;
     end
end
```

***Default Rules:***

```
default = 36;  /* $AVPCTMAX */
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

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***Import:***

```
cktdefs.R
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
        /* RULE about Glsmpctmax: */

        /* Validity check only applies to SM-2000 */
        if (SM-2000(current_pcr)) then
        begin
                Glsmpctmax == 36; /* $AVPCTMAX */
        end
end
```

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# Glsmpm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsmpm | FP | DMbool |

### 1.1 Glsmpm

Global Office Parameter Glsmpm

### 1.2 Description

This office parameter is used to indicate if layer 1 performance monitoring is turned on or off on a per SM basis.

This global parameter will be changed through Terminal Maintenance (TM) software. TM may provide the switch personnel, the ability to inhibit and allow PM on a SM basis through an input message.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = DBYES;

***Distribution Rules:***

```
      /* Populate on all SMs */
         for modatt in RLmodatt
         pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glsmpm.values: */
/* no check */ ;
```

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# Glsmprt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsmprt | FP | DMbool |

### 1.1 Glsmprt

Global Office Parameter Glsmprt

### 1.2 Description

This office parameter is used to indicate whether or not an output message is to be generated when a mismatch is automatically detected between the ISLU U-card, and the Network Termination (NT). This parameter is to be populated in all the SMs.

This parameter will be changed through TM software. TM will provide the switch personnel, the ability to inhibit and allow PM on a SM basis through a new input message.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = DBNO;

***Distribution Rules:***

```
/* Populate on all SMs */
 for modatt in RLmodatt
 pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glsmprt.values: */
/* no check */ ;
```

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# Glsmqlmh

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsmqlmh | FP | DMshort |

### 1.1 Glsmqlmh

Global Office Parameter Glsmqlmh

### 1.2 Description:

Indicates the number of Message Handler's (MH's) in a given SM-2000 processor in the office that has connectivity to a QLPS via 1 or more MH pipes. For release 1, there is only 1 MH (that is, MH0) that terminates pipes in an SM-2000, so the number of MHs that have connectivity to a QLPS in a given SM-2000 will be either 0 (no pipes) or 1 (MH0 has pipes).

It should also be noted that, in release 1, a MH may have:

```
1) no pipes,


2) 1 pipe or


3) 2 pipes to a QLPS.
```

This parameter DOES NOT indicate the number of pipes. It merely indicates the number of MH's in an SM-2000 that has connectivity, that is any pipes, to a QLPS.

Glsmqlmh is used by measurements to size reports and by diagnostics to derive a source of packets for diagnosing the QLPS.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Glsmqlmh is populated in the SM only. It is always 0 in the SM and is only incremented in SM-2000's. It is initially set to 0 indicating no MHs in this SM-2000 has access to QLPS via MH pipes. It is incremented by 1 when the first MH pipe is assigned to that SM-2000. It is not incremented when additional pipes are assigned to that SM-2000, only the first one. It is decremented by 1 when all pipes to that SM-2000 are

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removed.

***Retrofit Rules:*** ODA must preserve this parameter during a retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        pcrlist = get_gpd_pcrlist(GPD_QLPS, 0);
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
BCsmqlmh: if (current_pcr is_in sm_all) then
begin
/* For release 1, pipes for QLPS networks terminate at 1 MH only
 * in an SM-2000, namely MH 0. Therefore, the value of this global
 * parameter can only be 0 or 1. It will be 0 if this is a
 * SM or if this is an SM-2000 with no QLPS pipes assigned to MH 0.
 * It will be 1 when at least 1 pipe has been assigned to MH 0. In
 * the future, pipes may terminate on more MH's (up to 3). The PRL
 * will have to be changed at that time to make the appropriate
 * checks.
 */
let pipe_found = find >= 1 mhpipe in RLmhpipe on Gl_pcrid
                 where (mhpipe.qnetwork is_in {QLNET0, QLNET1});

if (pipe_found == true) then
begin
    Glsmqlmh == 1;
end

/* Range checks */
Glsmqlmh is_in {0 thru 1};
end
```

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# Glsmtks

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsmtks | FP | DMgrupnm |

### 1.1 Glsmtks

Global office parameter Glsmtks.

### 1.2 Description

This parameter contains the number of trunk groups on an SM.

This parameter contains the number of tuples present in RLimtgrps.G on a partecular SM. There is a tuple present in this relation for every trunk group that has a member assigned to the particular SM. In SM, measurement data is collected for the first 120 trunk greoups. In SM-2000, the measurement data is collected for all the trunk groups that have one or more members on this SM. RC will be the only user of this parameter.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = 0;

***Distribution Rules:***

```
/* Populate on all SMs */
for modatt in RLmodatt pcrlist[modatt.module] = true;
```

***Import:*** AVextern.R

***Checks:***

```
/* RULE about Glsmtks.values:*/

 for pcr in sm_all begin
         for modatt in RLmodatt
         where (modatt.module == pcr)
         begin
                 if (modatt.unittype == SMSM2000 ) then
```

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```
                begin
                        Glsmtks on pcr is_in {0 - AVTRKGRPS()};
                end else
                begin
                        Glsmtks on pcr is_in {0 - 120};
                end
        end
end
```

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# Glsnapon

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsnapon | LRFR | DMbool |

### 1.1 Glsnapon

Global Office Parameter Glsnapon

### 1.2 Description

This global parameter is used to indicate whether this office is the regular 5E (DBNO) or based on SNAP architecture (DBYES).

If this parameter is set to DBYES, 5E does not perform any call processing but behaves as a switching fabric.

This parameter should be allowed to change only through ODA (not RC/V) to prevent from setting the value to DBYES inadvertently for the normal 5E office.

The value of this parameter must be consistent throughout AM, CM and all SMs.

***RANGE: (0 - 1) Values:*** 0 = DBNO; 1 = DBYES;

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** This global parameter should not be visible to RC/V and should not be allowed to alter its value through RC/V.

ODA is the only process to change this parameter. ODBE is also allowed for lab testing purpose.

***Retrofit Rules:*** A SNAP office must be a new office and Retrofit from a 5E office to an SNAP office is not allowed.

***Default Rules:*** default = DBNO;

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsnapon.values: */
/* no check */ ;
```

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# Glsoftver

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsoftver | FR | DMuns7 |

### 1.1 Fullname:

AILS software version

### 1.2 Description:

The Glsoftver global parameter holds the AILS software version that is currently active in the OSPS. The current value is 3 for the 5e12.1 generic.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 3

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5e11.1, this parameter must be set to the value 3, which is different than the 5e11.1 value of 1. EVL code can be found in /prl/evl/Glsoftver.V.

***Default Rules:***
```
default = 3;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Glsoftver.values */
        if (runucv) then
        Glsoftver is_in {1 thru 99};
```

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# Glsp2feat

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsp2feat | LRFR | DMhex32 |

### 1.1 Fullname:

OSPS Special feature activation bits

### 1.2 Description:

This global reserves 32 bits to be used by OSPS for feature activation bits for future features. As features are assigned, the 'Special Feature x' (see the following) must be replaced with the actual feature name. A pseudo global name must be assigned to each feature, along with the corresponding hex value indicating which bit is reserved for this feature. Code using this feature activation bit can use a local #define instead of the customary 'global' #define.

```
For example:
GLEXAMPLE (0x400, bit 10) -
     Great and wonderful example feature.
Local header file for code would have '#define GLEXAMPLE 0x400'
LAYOUT:
GLDISPAUTO (0x1, bit 0) -
        Display Auto Collect portion of 800 Toll-Free Services
        NPA Expansion Special Feature.
GLENFAUTO (0x2, bit 1) -
        Enforce Auto Collect portion of 800 Toll-Free Services
        NPA Expansion Special Feature.
GLVMSACC (0x4, bit 2) -
        Activation indicator for the VMS Access Dialing Changes
        feature.
GLLNPSNGLNBRQRY (0x8, bit 3) - Activation parameter for the Local
        Number Portability (LNP) Single Number Query feature.
GLXXXXXX (0x10,bit 4) -
        Special Feature x.
GLXXXXXX (0x20, bit 5) -
        Special Feature x.
GLATTLNP (0x40, bit 6) -
        Activation indicator for ATT for the Local Number
        Portability (LNP) Using Location Routing Number (LRN)
        Special Feature.
GLLECLNP (0x80,bit 7) -
        Activation indicator for LEC for the LNP Using LRN Special
        feature.
GLCIIDIOR (0x100, bit 8) -
        Activation indicator for CAS International Intercept for
        DIOR originations
GLCIINDIOR (0x200, bit 9) -
        Activation indicator for CAS International Intercept for
        non-DIOR originations
GLCRDRSTR (0x400, bit 10) -
        Activation indicator for quotation of card restriction
        type in ATCO announcements and operator displays.
```

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```
GLICSCNALW (0x800, bit 11) -
        Activation indicator for Allow Coin Handling for Inmate
        Calling Services (ICS) originations
GLIMPLTRNS (0x1000, bit 12) -
        Activation indicator for the VMS Implicit Transfer feature.
GLCICADAR3 (0x2000, bit 13) -
        Activation indicator for the Completion of Inter-LATA Calls
        to Directory Assistance (CICADA) - Release 3 Feature.
GLAMARSRCTYP (0x4000, bit 14) -
        AMA Recording for Listing Services Search Types feature.
GLANIIIREL2 (0x8000, bit 15) -
        Activation indicator for the AMA - Record ANI II Digits
        Release 2 feature.
GLDIALECT (0x10000, bit 16) -
        Activation parameter for the Direct Integrated Access
        to Language Enhanced Capabilities (DIALECT). Special
        Feature x.
GLOLNS (0x20000, bit 17) -
        Activation parameter for the Originating Line Number
        Screening (OLNS) feature.
GLTAACT (0x40000, bit 18) -
        Activation indicator for the Toll and Assist portion of
        LSCC with SS7 Redirection feature
GLLSACT (0x80000, bit 19) -
        Activation indicator for the Listing Services portion of
        LSCC with SS7 Redirection feature
GLRTRSDAQRY (0x100000, bit 20) -
        Activation indicator for the RTRS Query portion of LSCC
        with SS7 Redirection feature
GLLECPINPROMPT (0x200000, bit 21) -
        Activation indicator for the LEC PIN Promt portion of the
        ACCS Special 10 Digit Calling Card Handling feature
GLTENDIGTCCC (0x400000, bit 22) -
        Activation indicator for the Ten Digit True Choice Calling
        Card portion of the ACCS Special 10 Digit Calling Card
        Handling feature
GLRECANIII (0x800000, bit 23) -
        Activation parameter for the long-term phase of the OSPS
        AMA - Record ANI II Digits feature
GLDIORCCC (0x1000000, bit 24) -
        Activation parameter for the DIOR with CCC Capability
        feature.
GLPEELOUTFEATACT (0x2000000, bit 25) -
        Activation parameter for the OSPS 800 Peel Out for Calling
        Card feature.
GLOVERCIID (0x4000000, bit 26) -
        Parameter for overriding CIID cards for ASCQ feature.
GLPHASE1WCIND (0x8000000, bit 27) -
        Activation parameter for Phase 1 of the CCS7 Incoming
        Signaling Wireless Call Indicator feature.
GLPHASE2WCIND (0x10000000, bit 28) -
        Activation parameter for Phase 2 of the CCS7 Incoming
        Signaling Wireless Call Indicator feature.
GLIBNSACT (0x20000000, bit 29) -
```

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```
        Activation parameter for IBNS Call Blocking Feature.
GLTANTLDA (0x40000000, bit 30) -
        Activation parameter for TA NATL DA 00- Access LSCC
        with SS7 Redirection Feature.
GLLSNATLDA (0x80000000, bit 31) -
        Activation parameter for LS NATL DA 00- Access LSCC
        with SS7 Redirection Feature.
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** RC and ODA are to preserve all bits in this global, whether they have been assigned or not. RC and ODA are to maintain the bit assignments specified in the LAYOUT part of the description section. When a feature is activated on the view (Y), set the corresponding bit to 1, otherwise set the bit to 0. GLAMARSRCTYP cannot be 1 when both secure feature bits SFID288 and SFID422 are off OR when SFID369 is off. GLAMARSRCTYP.rc-oda.10.1

```
GLATTLNP cannot be activated (1) when secure feature bit
SFID288 is off and secure feature bit SFID419 is off.

GLLECLNP cannot be activated (1) when secure feature bit
SFID417 is off. GLDIALECT cannot be activated (1) when secure
feature bit SFID425 is off.

GLOLNS cannot be activated (1) when secure feature bit SFID452
is off, OR when the default value of 1023 has not been entered
for OLNS default table, OR when the default value of "----" has
not been entered for Account Owner table.

GLTAACT cannot be activated (1) when secure feature bit SFID288
is off, OR when BOTH secure feature bit SFID424 and SFID429 are
off.

GLLSACT cannot be activated (1) when secure feature bit SFID288
is off, OR when BOTH secure feature bit SFID422 and SFID429 are
off.

GLLECPINPROMPT cannot be activated (1) when secure feature bits
SFID288, SFID432 and SFID433 are all off. At least one of these
must be on.

GLTENDIGTCCC cannot be activated (1) when secure feature bit
SFID023 is off. SFID023 and either, or both SFID288 and/or
```

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```
SFID433 must be on.

GLRECANIII cannot be activated (1) when both secure feature bit
SFID288 and SFID434 are off OR when option feature bit OFID676
is on.

GLDIORCCC cannot be activated (1) when secure feature bit SFID288 is
off, OR when BOTH  secure feature bit SFID388 and SFID435 are off.

GLPEELOUTFEATACT cannot be activated (1) when secure feature bit
SFID436 is off, OR AATOS feature activation bit GLSDNFW != 1, OR
when either secure feature bit SFID112 or option feature bit
OFID567 is off.

GLIBNSCBACT can only be activated when secure feature parameter
SFID288 is on or SFID445 is on, and when option feature parameter
OFID620 is on.

GLPHASE1WCIND can only be activated (1) when secure feature bit
SFID442 is on AND when option feature bit OFID661 is on.

GLPHASE2WCIND can only be activated (1) when GLPHASE1WCIND is
active (1).

GLTANATLDA can only be activated (1) when either secure feature
bit SFID288 or SFID443 is on (1) and GLTAACT is on (1).

GLLSNATLDA can only be activated (1) when either secure feature
bit SFID288 or SFID443 is on (1) and GLLSACT is on (1).

GLANIIIREL2 can only be activated (1) when either secure feature
bit SFID288 or SFID448 is on (1) and GLRECANIII is on (1).

GLLNPSNGLNBRQRY can only be activated (1) when either secure
feature bit SFID288 or secure feature bit SFID454 is on (1),
and GLATTLNP is on (1).
```

***Retrofit Rules:*** Copy entire word (all bits) from one software release to the next.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Import:***

```
PLgpd_defs.R,
usp5defs.R
```

***Checks:***

```
/* RULE about Glsp2feat.values: */

begin
```

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```
let gldispauto = 0;
let glenfauto = 1;
let glvmsacc = 2;
let glics = 27;
let glicscnalw = 11;
let glimpltrns = 12;
let glcicadar3 = 13;
let gldialect = 16;
let glpeelout = 25;
let glphase1wcind = 27;
let glphase2wcind = 28;
let glolns = 17;
let tadaact = 18;
let lsdaact = 19;
let tanatlda = 30;
let lsnatlda = 31;
let amarecaniii = 23;
let aniiirel2 = 15;

        /* Enforce Auto Collect cannot be active unless
         * Display Auto Collect is active.
         */
        if (Glsp2feat{glenfauto} == 1) then
                Glsp2feat{gldispauto} == 1;

        /*
         * ICS must be Y if ALLOW COIN HNDLG is Y.
         */
        if ( Glsp2feat {glicscnalw} == 1 ) then
        begin
                Glspfeat {glics} == 1;
        end

        /*
         * VMS ON must be Y if VMS ACC DIAL is Y.
         */
        if (Glsp2feat {glvmsacc} == 1) then
        begin
                if (current_pcr is_in sm_all) then
                begin
                        Glvmson == DBYES;
                end
        end

        /*
         * if IMPLCT TRANS is Y, VMS ACC DIAL must be Y and
         * IM TR ESP AC must be greater than 0.
         */
        if (Glsp2feat {glimpltrns} == 1) then
        begin
                Glsp2feat {glvmsacc} == 1;
                if (current_pcr is_in sm_all) then
                begin
                        Gloff12 > 0;
```

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```
        end
end

/* Enforce if ATT FEAT ACT for LNP is active,
 * then LEC FEAT ACT for LNP cannot be active.
 */
if (Glsp2feat{6} == 1) then
        Glsp2feat{7} == 0;

/* Enforce if LEC FEAT ACT for LNP is active,
 * then ATT FEAT ACT for LNP cannot be active.
 */
if (Glsp2feat{7} == 1) then
        Glsp2feat{6} == 0;
/* The CICADA-R3 Feature cannot be activated if the
 * CALL-AT&T Directory Assistance (DA) Destination
 * Number (DN) has not been specified.
 */
if (Glsp2feat{glcicadar3} == 1) then
begin
        if (current_pcr is_in sm_all) then
        begin
                Glatt_dadn.dn != "";
        end
end

/*
 * NACC must be N if DIALECET is Y.
 */
if (Glsp2feat {gldialect} == 1) then
begin
        if (current_pcr is_in sm_all) then
        begin
                Glnacc == DBNO;
        end
end


/*
 * ACTIVATE OLNS can only be Y when RLolnsdef.anii_dig
 * has a 1023 tuple and RLacctown.acctown has a  "----"
 * tuple and secure feature id 452 is active.
 */
if (Glsp2feat {glolns} == 1) then
begin
        find == 1 olnsdef in RLolnsdef on osps_gpd(4)
        where (olnsdef.anii_dig == 1023);

        find == 1 acctown in RLacctown on osps_gpd(4)
        where (acctown.acctown == "----");
end
/*
 * AATOS must be Y if PEEL OUT CC FEAT ACT is Y.
 */
```

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```
        if (Glsp2feat {glpeelout} == 1) then
        begin
                if (current_pcr is_in sm_all) then
                begin
                        Glsdnfw == 1;
                end
        end

        /* If Phase 2 of the CCS7 Incoming Signaling Wireless Call
         * Indicator feature is active, Phase 1 of the CCS7 Incoming
         * Signaling Wireless Call Indicator feature must also be
         * active.
         */
        if (Glsp2feat{glphase2wcind} == 1) then
        begin
                Glsp2feat{glphase1wcind} == 1;
        end

        if (Glsp2feat{glphase1wcind} == 0) then
        begin
                Glsp2feat{glphase2wcind} == 0;
        end


        /* Enforce TA NATL DA 00- Access feature cannot be active
         * unless the OSPS-TA portion of the LSCC with SS7
         * Redirection feature is also active.
         */
        if (Glsp2feat{tanatlda} == 1) then
        begin
                Glsp2feat{tadaact} == 1;
        end

        /* Enforce LS NATL DA 00- Access feature cannot be active
         * unless the OSPS-LS portion of the LSCC with SS7
         * Redirection feature is also active.
         */
        if (Glsp2feat{lsnatlda} == 1) then
        begin
                Glsp2feat{lsdaact} == 1;
        end

        /* Enforce AMA Record ANI II Digits Release 2 feature cannot
         * be active unless the AMA Record ANI II Digits - Long Term
         * feature is also active.
         */
        if (Glsp2feat{aniiirel2} == 1) then
        begin
                Glsp2feat{amarecaniii} == 1;
        end
end
;
```

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# Glsp3feat

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsp3feat | LRFR | DMhex32 |

### 1.1 Fullname:

OSPS Special feature activation bits

### 1.2 Description:

This global reserves 32 bits to be used by OSPS for feature activation bits for future features. As features are assigned, the 'Special Feature x' (see below) must be replaced with the actual feature name. A pseudo global name must be assigned to each feature, along with the corresponding hex value indicating which bit is reserved for this feature. Code using this feature activation bit can use a local #define instead of the customary 'global' #define.

```
For example:
GLEXAMPLE (0x400, bit 10) - Great and wonderful example feature.
Local header file for code would have '#define GLEXAMPLE 0x400'

LAYOUT:
GLFLEXACDACT (0x1, bit 0) - Activation parameter for the OSPS ACD Expansion
         feature (98-5E-4668).
GLXXXXXX (0x2, bit 1) - Special Feature x.
GLXXXXXX (0x4, bit 2) - Special Feature x.
GLXXXXXX (0x8, bit 3) - Special Feature x.
GLXXXXXX (0x10, bit 4) - Special Feature x.
GLXXXXXX (0x20, bit 5) - Special Feature x.
GLXXXXXX (0x40, bit 6) - Special Feature x.
GLXXXXXX (0x80, bit 7) - Special Feature x.
GLXXXXXX (0x100, bit 8) - Special Feature x.
GLXXXXXX (0x200, bit 9) - Special Feature x.
GLXXXXXX (0x400, bit 10) - Special Feature x.
GLXXXXXX (0x800, bit 11) - Special Feature x.
GLXXXXXX (0x1000, bit 12) - Special Feature x.
GLXXXXXX (0x2000, bit 13) - Special Feature x.
GLXXXXXX (0x4000, bit 14) - Special Feature x.
GLXXXXXX (0x8000, bit 15) - Special Feature x.
GLXXXXXX (0x10000, bit 16) - Special Feature x.
GLXXXXXX (0x20000, bit 17) - Special Feature x.
GLXXXXXX (0x40000, bit 18) - Special Feature x.
GLXXXXXX (0x80000, bit 19) - Special Feature x.
GLXXXXXX (0x100000, bit 20) - Special Feature x.
GLXXXXXX (0x200000, bit 21) - Special Feature x.
GLXXXXXX (0x400000, bit 22) - Special Feature x.
GLXXXXXX (0x800000, bit 23) - Special Feature x.
GLXXXXXX (0x1000000, bit 24) - Special Feature x.
GLXXXXXX (0x2000000, bit 25) - Special Feature x.
GLXXXXXX (0x4000000, bit 26) - Special Feature x.
GLXXXXXX (0x8000000, bit 27) - Special Feature x.
GLXXXXXX (0x10000000, bit 28) - Special Feature x.
GLXXXXXX (0x20000000, bit 29) - Special Feature x.
GLXXXXXX (0x40000000, bit 30) - Special Feature x.
```

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```
GLXXXXXX (0x80000000, bit 31) - Special Feature x.
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** RC and ODA are to preserve all bits in this global, whether they have been assigned or not. RC and ODA are to maintain the bit assignments specified in the LAYOUT part of the description section. When a feature is activated on the view (Y), set the corresponding bit to 1, otherwise set the bit to 0.

***Retrofit Rules:*** Copy entire word (all bits) from one software release to the next.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsp3feat.values: */
        /* no check */ ;
```

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# Glsp4feat

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsp4feat | LRFR | DMhex32 |

### 1.1 Fullname:

OSPS Special feature activation bits

### 1.2 Description:

This global reserves 32 bits to be used by OSPS for feature activation bits for future features. As features are assigned, the 'Special Feature x' (see the following) must be replaced with the actual feature name. A pseudo global name must be assigned to each feature, along with the corresponding hex value indicating which bit is reserved for this feature. Code using this feature activation bit can use a local #define instead of the customary 'global' #define.

```
For example:
GLEXAMPLE (0x400, bit 10) -
        Great and wonderful example feature.

Local header file for code would have '#define GLEXAMPLE 0x400'

LAYOUT:
GLPTFFEATACT (0x1, bit 0) - Special Feature: Recognition of
         Personal Toll-Free Numbers.
GLXXXXXX (0x2, bit 1) - Special Feature x.
GLXXXXXX (0x4, bit 2) - Special Feature x.
GLINTLDATAACT (0x8, bit 3) - Special Feature:
         OSPS International DA TA activation.
GLINTLDALSACT (0x10, bit 4) - Special Feature:
         OSPS International DA LS activation.
GLXXXXXX (0x20, bit 5) - Special Feature x.
GLXXXXXX (0x40, bit 6) - Special Feature x.
GLRATEANCFEATACT (0x80, bit 7) - Special Feature:
         OSPS Rate Annc on 0+ Calls.
GLXXXXXX (0x100, bit 8) - Special Feature x.
GLXXXXXX (0x200, bit 9) - Special Feature x.
GLXXXXXX (0x400, bit 10) - Special Feature x.
GLXXXXXX (0x800, bit 11) - Special Feature x.
GLXXXXXX (0x1000, bit 12) - Special Feature x.
GLXXXXXX (0x2000, bit 13) - Special Feature x.
GLXXXXXX (0x4000, bit14) - Special Feature x.
GLXXXXXX (0x8000, bit 15) - Special Feature x.
GLXXXXXX (0x10000, bit 16) - Special Feature x.
GLXXXXXX (0x20000, bit 17) - Special Feature x.
GLXXXXXX (0x40000, bit 18) - Special Feature x.
GLXXXXXX (0x80000, bit 19) - Special Feature x.
GLXXXXXX (0x100000, bit 20) - Special Feature x.
GLXXXXXX (0x200000, bit 21) - Special Feature x.
GLXXXXXX (0x400000, bit 22) - Special Feature x.
GLXXXXXX (0x800000, bit 23) - Special Feature x.
GLXXXXXX (0x1000000, bit 24) - Special Feature x.
```

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```
GLXXXXXX (0x2000000, bit 25) - Special Feature x.
GLXXXXXX (0x4000000, bit 26) - Special Feature x.
GLXXXXXX (0x8000000, bit 27) - Special Feature x.
GLXXXXXX (0x10000000, bit 28) - Special Feature x.
GLXXXXXX (0x20000000, bit 29) - Special Feature x.
GLXXXXXX (0x40000000, bit 30) - Special Feature x.
GLXXXXXX (0x80000000, bit 31) - Special Feature x.
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** RC and ODA are to preserve all bits in this global, whether they have been assigned or not. RC and ODA are to maintain the bit assignments specified in the LAYOUT part of the description section. When a feature is activated on the view (Y), set the corresponding bit to 1, otherwise set the bit to 0.

```
GLINTLDATAACT can only be activated (1) when secure feature
bit SFID288 is on, OR when secure feature bit SFID324 is on.

GLINTLDALSACT can only be activated (1) when secure feature
bit  SFID288 is on, OR when secure feature bit SFID324 is on.

GLRATEANCFEATACT can be activated (1) only if either secure
feature parameter SFID288 or SFID462 is on (1) or both are on.
```

***Retrofit Rules:*** Copy entire word (all bits) from one software release to the next.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
let tanatlda = 30;
let lsnatlda = 31;
let glintldataact = 3;
let glintldalsact = 4;
/* RULE about Glsp4feat.values: */

        /*
         * If PTF FEAT ACT is Y, PTF DEST INDEX and PTF ROUTE
         * INDEX must not be 0.
         */
        if (Glsp4feat {0} == 1) then
```

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```
begin
        Gloff8{0:11} != 0;
        Gloff8{12:23} != 0;
end

/* INTL DA TA ACT feature activation bit cannot be active
 * unless the TA NATL DA bit is also active.
 */
if (Glsp4feat{glintldataact} == 1) then
begin
        Glsp2feat{tanatlda} == 1;
end

/* INTL DA LS ACT feature activation bit cannot be active
 * unless the LS NATL DA bit is also active.
 */
if (Glsp4feat{glintldalsact} == 1) then
begin
        Glsp2feat{lsnatlda} == 1;
end
```

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# Glspcl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glspcl | FR | DMbool |

### 1.1 Glspcl

Global Office Parameter Glspcl

### 1.2 Description

Global allows the TCS to specify whether Special Area Checks are 'on' or 'off' (DBYES or DBNO respectfully) for Improved Third Number Acceptance (ITNA) Treatment. If the parameter is off, then no special area checks using the special area table (RLitnaspec) will be performed.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = DBNO;

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glspcl.values: */
/* no check */ ;
```

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# Glspecabn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glspecabn | FR | DMbool |

### 1.1 Glspecabn

Global Office Parameter Glspecabn

### 1.2 Description

Office records special abandons. When set to DBYES this allows the Service Provider to define a special set of AMA call types to record abandons on billable calls.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glspecabn.values: */
/* no check */ ;
```

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# Glspeech

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glspeech | FR | DMushort |

### 1.1 Glspeech

Number of trunk groups with speech treatments.

### 1.2 Description

This global parameter specifies the number of trunk groups which have speech treatments applied to them. Speech treatments include such things as time assignment speech interpolation (TASI) and low bit rate voice (LBRV) encoding. This value should equal the number of trunks in RLrt_trkg which have the value of 'speech' set to DBYES.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = 0;

***Distribution Rules:***

```
        /* standard */
```

***Import:*** AVextern.R

***Checks:***

```
/* RULE about Glspeech.values: */
Glspeech is_in {0 - AVTRKGRPS()+1};
/* RULE about Glspeech: */
begin
let cnt_speech = 0 + count { rt_trkg in RLrt_trkg
where (rt_trkg.speech == DBYES)};
Glspeech == cnt_speech;
end
```

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# Glspfeat

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glspfeat | LRFR | DMhex32 |

### 1.1 Glspfeat

OSPS Special feature activation bits

### 1.2 Description:

This global reserves 32 bits to be used by OSPS for feature activation bits for future features. As features are assigned, the 'Special Feature x' (see below) must be replaced with the actual feature name. A pseudo global name must be assigned to each feature, along with the corresponding hex value indicating which bit is reserved for this feature. Code using this feature activation bit can use a local #define instead of the customary 'global' #define. For example:

```
GLEXAMPLE (0x400, bit 10) -
        Great and wonderful example feature.
Local header file for code would have '#define GLEXAMPLE 0x400'

LAYOUT:
GLCDNR   (0x1, bit 0) -
         Called and Calling Number Restrictions.
GLXXXXXX (0x2, bit 1) -
         Unavailable for 5e9 use. It is in use in the 5e8 generic.
GLINPAOSPS (0x4, bit 2) -
         5E9 OSPS INPA Expansion feature.
GLCLI (0x8, bit 3) -
         TRAN-0-SEND over FGD Trunks Special feature.
GLWLAMA (0x10, bit 4) -
         AMA Recording from Wireless Service Provider Special Feature.
GLIIW_INDT (0x20, bit 5) -
         5E8 OSPS International Inward Billed Number Screening.
GLINTRAAIBNS (0x40, bit 6) -
         5E8 OSPS Automated Inward BNS Intra LATA Allow.
GLINDETAIBNS (0x80, bit 7) -
         5E8 OSPS Automated Inward BNS Indeterminate Treatment.
GLALW809 (0x100, bit 8) -
         5E8 OSPS CICADA 2 - Block/Unblock 809 Special Feature.
GLITOI (0x200, bit 9) -
         Intraflow to Interflow Call Handling w/ Interflow Call Queues.
GLPLBQON   (0x400, bit 10) -
         5E9 Purchase Limits Balance Quotation feature.
GLCBSD1 (0x800, bit 11) -
         Card Based Speed Dialing Feature.
GLPROMOCARD (0x1000, bit 12) -
         PLBQ Business/Residential Card.
GLMECHPC (0x2000, bit 13) -
         5E9 OSPS MECH PERSON COLLECT.
GLRTD (0x4000, bit 14) -
         5e9 Screening for Real-Time Call Details Feature.
```

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```
GLPLBQ2ON (0x8000, bit 15) -
         5E9 Purchase Limits Balance Quotation - Release 2 feature.
GLAMAGDM (0x10000, bit 16) -
         5E9 AMA Generic Data Module feature.
GLCBSDAP (0x20000, bit 17) -
         Card Based Speed Dial Auto Provisioning feature.
GLDIORTF800 (0x40000, bit 18) -
         DIOR Toll Free 800 feature.
GLAILS (0x80000, bit 19) -
         Automated Inward Line Screening feature.
GLCSB (0x100000, bit 20) -
         Branding on routing parameter for the Carrier Specific Branding
         feature.
GLDIORCPSR2 (0x200000, bit 21) -
         DIOR Country Pair Screening Release 2 Feature.
GLTYBT (0x400000, bit 22) -
         ACCS Thank You Branding Timer feature.
GLASAPRTRS (0x800000, bit 23) -
         Automated Service Access Prompting - Rls 2 feature.
GLASAPAMA (0x1000000, bit 24) -
         Automated Service Access Prompting - Rls 2 feature.
GLACCSCCC (0x2000000, bit 25) -
         Feature activation bit for ACCS for CCC feature.
GLIBNSCTI (0x4000000, bit 26) -
         International Billed Number Screening - Rls 2 feature.
GLICS (0x8000000, bit 27) -
         Inmate Calling Services (ICS) feature.
GLDIORNRA (0x10000000, bit 28) -
         DIOR Network Remote Access feature.
GLDIORAICR3 (0x20000000, bit 29) -
         DIOR Automated Initial Calls Release 3 feature.
GLINCCS7SIG (0x40000000, bit 30) -
         CCS7 Incoming Signaling for OSPS feature.
GLFULLCARD (0x80000000, bit 31) -
          Full card entry for CAS Rate Quote.
GLcas3
GLmecpb
GLsdap_idx
GLsdap_pbn
```

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

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***RC/ODA Rules:*** RC and ODA are to preserve all bits in this global, whether they have been assigned or not. RC and ODA are to maintain the bit assignments specified in the LAYOUT part of the description section. When a feature is activated on the view (Y), set the corresponding bit to 1, otherwise set the bit to 0.

There are 3 known exceptions to this rule. Due to changes in the CDNR feature's announcements, bit 0 must be initialized to 0 for all generics from 5e9_1w and beyond, regardless of whether bit 0 is on or off in 5e8_1e.

Bit 1 should be initialized to 0 in 5e9_1w and beyond due to the fact that the bit is being used for a feature in 5e8 but is not used in 5e9.

Bit 12 should be initialized to 0 in 5e9_2m due to the fact that the bit is being used for a feature in 5e9(1) and is being used by a different feature in 5e9(2). Bit 11 will be the sole activation bit for the entire Speed Dialing feature, and its value will be carried forward from 5e9(1).

An additional exception is that for all releases after 5e9.1, bit 14 should be set to zero regardless of what value it contains in previous releases.

```
GLWLAMA cannot be 1 when secured feature bit SFID104 is off
   (GLWLAMA.rc-oda.8.1).
GLALW809 cannot be 1 when secured feature bit SFID110 is off
   (GLALW809.rc-oda.8.1).
GLITOI cannot be 1 when secured feature bit SFID113 is off
   (GLITOI.rc-oda.8.1).
The check with SFID365 is modified for 5e9.2, with GLCBSD1 replacing
   GLCBSD2, which is not being used in 5e9.2.
GLCBSD1 cannot be 1 when secured feature bit SFID365 is off
   (GLCBSD1.rc-oda.9.2).
GLRTD cannot be activated when secure feature bit SFID366 is off.

GLRTD cannot be activated when option feature bit OFID595 is off.

GLAILS cannot be 1 when secured feature bit SFID370 is off
   (GLAILS.rc-oda.9.1).
GLCBSDAP cannot be 1 when secured feature bit SFID367 is off
   (GLCBSDAP.rc-oda.9.2).
GLCSB cannot be activated when secure feature bit SFID378 is off.

GLASAPRTRS cannot be activated when both secure feature bits SFID384
   and SFID288 are off.
(GLASAPRTRS.rc-oda.9.1)

GLASAPAMA cannot be activated when both secure feature bits SFID384
   and SFID288 are off.
(GLASAPAMA.rc-oda.9.1)

GLTYBT cannot be 1 when both secure feature bits SFID390 and SFID288
    are off.
(GLTYBT.rc-oda.9.1)

GLACCSCCC cannot be 1 when both secure feature bits SFID288 and SFID388
    are off.
GLICS cannot be 1 when both secure feature bits SFID288 and SFID385 are off.

GLPROMOCARD cannot be activated when secure feature bit SFID400 is off or
```

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```
   when secure feature bit SFID400 is on and GLPLBQ2ON is off.
GLFULLCARD cannot be activated when GLPLBQ2ON is off.

GLINCCS7SIG cannot be 1 when both secure feature bits SFID288 and SFID395
   are off.
(GLINCCS7SIG.rc-oda.10.1)
```

***Retrofit Rules:***

```
Copy entire word (all bits) from one software release to the next.

The exceptions to this rule are bit 0 which must be initialized to
     0 for this generic (5e9_1w) and all following generics, due to
     a change in the CDNR feature's announcement treatments, and Bit 1,
     which is not being used in the 5e9_1w generic but is used in 5e8.
     This bit should be initialized to 0 and not be populated according
     to it's 5e8 value.

In addition, bit 12 should be initialized to 0 in 5e9_2m due to the fact
     that the bit is being used for a feature in 5e9(1) and is being used
     by a different feature in 5e9(2). Bit 11 will be the sole activation
     bit for the entire Speed Dialing feature, and its value will be
     carried forward from 5e9(1).

for 5e9_1w
    Glspfeat[0] = 0;
    Glspfeat[1] = 0;

for 5e9_2m
    Glspfeat[12] = 0;

/* Turn Glspfeat{GLMECHPC} on in 5e9_1w if Glmecpb is on
 * in the previous software release, otherwise turn
 * Glspfeat{GLMECHPC} off.
 */

 if(Glmecpb == DBYES) Glspfeat{13} = 1;
 else Glspfeat{13} = 0;

/* reset GLRTD to off */
 Glspfeat{14} = 0;
```

***Default Rules:***

```
default = 0x2000;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glspfeat.values: */
        /* no check */ ;
/* RULE about Glspfeat: */
begin
let glcdnr = 0;
let glmechpc = 13;
```

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```
let glplbqon = 10;
let glcbsd1 = 11;
let glplbq2on = 15;
let glamagdm = 16;
let glcbsdap = 17;
let glpromocard = 12;
let glfullcardentry = 31;
/*
 * CAS R3 must be Y if CDNR is Y.
 */

if (Glspfeat {glcdnr} == 1) then
begin
        Glcas3 == DBYES;   /* GLCDNR.8.1 */
end

/*
 * If MECH PERSON SWITCH is Y then MECH PERSON COLLECT must be Y.
 */
if (Glmecpb == DBYES) then
begin
        Glspfeat{glmechpc} == 1;  /* t418644_9_1 */
end

/*
 * CAS R3 must be Y if CBSD1 is Y.
 */
if (Glspfeat {glcbsd1} == 1) then
begin
        Glcas3 == DBYES;   /* t418217_8_1 */
end

/*
 * PL ON must be Y if PLBQ ON is Y.
 */
if (current_pcr is_in sm_all &&
    Glconfigname is_in { CNFG001, CNFG002, CNFG003, CNFG2K00 }) then
begin
        if (Glspfeat {glplbqon} == 1) then
        begin
                Glplon == DBYES;   /* t415909_8_1 */
        end
end

/*
 * PLBQ ON (Release 1) must be Y if PLBQ2 ON (Release 2) is Y.
 */
if (Glspfeat {glplbq2on} == 1) then
begin
t455917_9_1: Glspfeat {glplbqon} == 1;
end

/*
 * PLBQ2 ON must be Y if AMA GENERIC DATA MODULE is Y.
```

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```
 */
if (Glspfeat {glamagdm} == 1) then
begin
t455917_9_2: Glspfeat {glplbq2on} == 1;
end

/*
 * PLBQ2 ON must be Y if PLBQ BUSINESS/RESIDENTIAL CARD is Y.
 */
if (Glspfeat {glpromocard} == 1) then
begin
t520657_9_2_1: Glspfeat {glplbq2on} == 1;
end

/*
 * PLBQ2 ON must be Y of FULL CARD ENTRY is Y.
 */
if (Glspfeat {glfullcardentry} == 1) then
begin
t520657_9_2_2: Glspfeat {glplbq2on} == 1;
end

/*
* if CBSDAP is Y, CAS R3 must be Y, and both SDAP PBN and
*       SDAP PBN must be greater than 0.
*/

if (Glspfeat {glcbsdap} == 1) then
begin
t463203_9_2_1: Glcas3 == DBYES;
t463203_9_2_2: Glsdap_pbn.digcnt > 0;
t463203_9_2_3: Glsdap_idx > 0;
end
end
```

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# Glsplofc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsplofc | FR | DMbool |

### 1.1 Glsplofc

Global Office Parameter Glsplofc

### 1.2 Description

This global parameter indicates if 7 digit dialing may be used to reach a different NPA than the originating NPA. DBYES means the office is serving more than one NPA or that 7 digit dialing can an be used to reach a different NPA. DBNO means all 7 digit numbers will have the same NPA.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = DBNO;

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsplofc.values: */
/* no check */ ;
```

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# Glsptwcac

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsptwcac | FR | DMspacce |

### 1.1 Glsptwcac

Global Office Parameter Glsptwcac

### 1.2 Description

This parameter is used by the Spontaneous Usage Sensitive Three Way Calling (USTWC) Special Feature.

It is used to store the type of access available for the feature. There are three access types:

```
1. SP_UNAVAIL
   This is the default value.
   The feature cannot be accessed for use by any line, no exceptions.

2. SP_GENAVAIL
   The feature is accessible by all lines, except those lines disabled
   for use on RC/View 1.6.

3. SP_SUBSCR
   The feature is not accessible by any line, except those lines enabled
   for use on RC/View 1.6.
```

The default value cannot be changed unless the Spontaneous Usage Sensitive 3-Way Calling Special Feature (SFID 156) has been purchased.

This parameter replaces Glsf8dummy which was used in 5e9.1 and 5e9.2 to provide this information.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** SP_UNAVAIL

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** If Glsptwcac is set to SP_UNAVAIL( Glsptwcac = 0 ) then Glustwcfid is a don't care.
If Glsptwcac is set to SP_GENAVAIL( Glsptwcac = 1 ) then Glustwcfid must be a multiway feature whose attributes match /MWSP3WC. See RLmwcfdfl.R.
If Glsptwcac is set to SP_SUBSCR( Glsptwcac = 2 ) then Glustwcfid must be a multiway feature whose attributes match /MWSP3WC. See RLmwcfdfl.R.

***Retrofit Rules:*** In a retrofit to 5E10, ODA should carry the value in the Glsf8dummy global parameter into this

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global parameter.

***Default Rules:*** default = SP_UNAVAIL;

***Distribution Rules:*** standard

***Checks:***

```
/* RULE about Glsptwcac values: */
Glsptwcac is_in {SP_UNAVAIL, SP_GENAVAIL, SP_SUBSCR};
```

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# Glsrcfm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsrcfm | FR | DMuchar |

### 1.1 Glsrcfm

Global Office Parameter Glsrcfm

### 1.2 Description

This global parameter specifies the maximum number of inter-switch simultaneous calls to be forwarded as an action of SCF or SCA/CAR.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = 1;

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsrcfm.values: */
Glsrcfm is_in {0 thru 99};
```

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# Glsrvot

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsrvot | FP | DMshort |

### 1.1 Fullname:

Current number of tuples in RLsrvot.

### 1.2 Description:

This global parameter contains a count of the number of rlSRVOT tuples.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** RC only: This global parameter cannot be changed or viewed by Recent Change.

***Retrofit Rules:*** This value is always recalculated at retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
        Glsrvot is_in {0 thru 24192};
end
if (runucv) then
begin
if (current_pcr is_in sm_all) then
begin
```

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```
/* RULE about Glsrvot */

if ((count({lpconf in RLlpconfig
        where(lpconf.smconfig == Glconfigname &&
            lpconf.package == GLOPSMOT)}) > 0) ||
   (count({lpconf in RLlpconfig
        where(lpconf.smconfig == Glconfigname &&
            lpconf.package == GLOPSMAUTO)}) > 0) ||
   (count({lpconf in RLlpconfig
        where(lpconf.smconfig == Glconfigname &&
            lpconf.package == GLOPSMDAAC)}) > 0)) then
begin
      Glsrvot is_in {0 thru 24192};
      /* Glsrvot is_in {0 thru ($DBQNSRVOT - $DBSFSRVOT)}; */
      Glsrvot >= (((Gltrkcnt * Gllstraf) + 99) / 100) + Glisrvot;
end


end
end
```

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# Glsrvt_alw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsrvt_alw | LR | DMbool |

### 1.1 Fullname:

Global Office Parameter Glsrvt_alw

### 1.2 Description:

This global parameter controls activation of the SCCP Route Verification Test portion of the OMAP feature. In the US release, the OMAP feature is not a secured feature. Hence, it is available to all customers with the 5e13(1) release.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ---

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** This global parameter cannot be modified via recent change. This global parameter should always contain DBYES.

***Retrofit Rules:*** The value of Glsrvt_alw should be preserved over retrofit.

***Default Rules:***

```
default = DBYES;
```

***Distribution Rules:***

***Checks:***

```
        Glsrvt_alw == DBYES;
```

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# Glsrvt_int

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsrvt_int | FP | DMuchar |

### 1.1 Fullname:

Global Office Parameter Glsrvt_int

### 1.2 Description:

This Global Parameter is used to indicate the maximum number of OMAP SCCP Route Verification Tests this SS7 National or International GSM is allowed to run concurrently as an Intermediate node in the Network or an SCCP end point.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 25

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Glsrvt_int cannot be modified via Recent Change. The value of Glsrvt_int should be 25.

***Retrofit Rules:*** The value of Glsrvt_int should be preserved over retrofit.

***Default Rules:***

```
default = 25;
```

***Distribution Rules:***

```
        for modatt in RLmodatt
        begin
                pcrlist[modatt.module] = true;
        end
```

***Checks:***

```
        Glsrvt_int == 25;
```

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# Glsrvt_loc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsrvt_loc | FP | DMuchar |

### 1.1 Fullname:

Global Office Parameter Glsrvt_loc

### 1.2 Description:

This Global Parameter is used to indicate the maximum number of Locally generated OMAP SCCP Route Verification Tests allowed to be run concurrently in this SS7 National or International GSM.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 5

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** The value of Glsrvt_loc can be modified via the SRVT LOCAL field on Recent Change view 16.4 (RC_OMAP) or ODA form RC_OMAP.

***Retrofit Rules:*** The value of Glsrvt_loc should be preserved over retrofit.

***Default Rules:***
```
default = 5;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        begin
                pcrlist[modatt.module] = true;
        end
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/*
 * This Parameter will be used only on a SS7
 * National or International Global SM.
 */

        if ((Glnatl7sm == current_pcr) ||
```

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```
                (Glintl7sm == current_pcr)) then
        begin
                Glsrvt_loc is_in {1 thru 5};
        end
        else
        begin
                Glsrvt_loc == 5;
        end

end
```

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# Glsrvtact

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsrvtact | FP | DMbool |

### 1.1 Fullname:

Global Office Parameter Glsrvtact

### 1.2 Description:

This global parameter controls the use of the SCCP Route Verification Test portion of the OMAP feature on a per GSM basis. If the SRVT applications are allowed to run on a GSM, the value of this global parameter on the GSM is set to DBYES. In US, Glsrvtact is set to DBYES on all global switching modules.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** The value of Glsrvtact should be DBYES on a GSM. On a switching module, Glsrvtact should be DBNO.
If an SM is defined as a GSM via an insert operation on RC view 16.1 (CCGSM) or ODA form CCGSM, Glsrvtact should be updated to DBYES. If a GSM is deleted via RC view 16.1 (CCGSM) or ODA form CCGSM, Glsrvtact should be updated to DBNO.

***Retrofit Rules:*** The value of Glsrvtact should be preserved over retrofit.

***Default Rules:***

```
if (Gl_pcrid is_in sm_all) then
begin
     if ((Glnatl7sm == Gl_pcrid) ||
     (Glintl7sm == Gl_pcrid)) then
     begin
            default = DBYES;
     end
     else
     begin
           default = DBNO;
     end
end
```

***Distribution Rules:***

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```
        for modatt in RLmodatt
        begin
                pcrlist[modatt.module] = true;
        end
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

        if ((Glnatl7sm == current_pcr) ||
                (Glintl7sm == current_pcr)) then
        begin
                Glsrvtact == DBYES;
        end
        else
        begin
                Glsrvtact == DBNO;
        end
end
```

# Glss7wrls

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glss7wrls | FR | DMbool |

### 1.1 Glss7wrls

SS7 Wireless Global Parameter

### 1.2 Description

This parameter is used by the CCS7 Incoming Signaling from 4ESS(TM) For Wireless Service Providers feature. It is used to determine whether an AP call type can be assigned to SS7 Signaled Wireless calls that must be routed to a position for handling. If the value is DBNO, then OSPS will not select the AP call type when performing Call Type Determination. If the value is DBYES, then OSPS may select the AP call type.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = DBNO;

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glss7wrls: */
```

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# Glssdap

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glssdap | FP | DMshort |

### 1.1 Glssdap

Minimum number of RLsdap_sdl tuples to create at retrofit.

### 1.2 Description

Glssdap contains the number of RLsdap_sdl tuples to create at retrofit, that is, the start number. It should be set based on the volume of speed dial auto provisioning (SDAP) calls the office is expected to handle. The standard value is 8.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** ODA: This value should be set to 8 on OSPS SMs in new offices. RC: This value cannot be changed or viewed by RC.

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:*** default = 0;

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glssdap */
if (current_pcr is_in sm_all) then
begin
         if (Glospsta == DBYES) then
         begin
                 if ((count({lpconf in RLlpconfig
                         where(lpconf.smconfig == Glconfigname &&
                                 lpconf.package == GLOPSMOT)}) > 0) ||
                    (count({lpconf in RLlpconfig
                         where(lpconf.smconfig == Glconfigname &&
                                 lpconf.package == GLOPSMAUTO)}) > 0) ||
```

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```
                   (count({lpconf in RLlpconfig
                         where(lpconf.smconfig == Glconfigname &&
                                 lpconf.package == GLOPSMDAAC)}) > 0)) then
                begin
                        Glssdap is_in {0 - 32};
                        Glssdap == 8;
                end
                else
                begin
                        Glssdap == 0;
                end
        end
                else
        begin
                Glssdap == 0;
        end
end
```

# Glssp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glssp | LRFR | DMbool |

### 1.1 Glssp

Global Office Parameter Glssp

### 1.2 Description:

This parameter is used to indicate that this service Switching Point (SSP) office and can process Number Services calls. This parameter must be set ( to DBYES) before several other relations can be populated for SSP offices.

This parameter has a dependency on the global parameter Glccs, which must indicate that CCS transport is available, before Glssp can be set to DBYES.

This parameter also has a dependency on the global parameter Gllata_num, which must be populated before Glssp can be set to DBYES.

Gllata_num must be set to a valid number 100-999 before the parameter Glssp may be set to DBYES.

This parameter (Glssp) has a dependency on the global parameter, Gl_oso. Glssp may not be set to DBYES if Gl_oso is DBYES.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:***

```
/* In 5e9.1 Glssp (LR) is used with Glsf12dumm (FR) for SSP/800.

   In 5e9.2 Glssp is changed from LR to LRFR for SSP/800.

 */
```

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

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***Checks:***

```
/* RULE about Glssp.values: */
        /* no check */ ;
/* CCS transport must be available for Glssp to be used. */

if (Glccs == CC_NOPLATFORM) then
begin
BCssp1: Glssp == DBNO;
end

if (!(Gllata_num is_in {100 thru 999})) then
begin
BCssp2: Glssp == DBNO;
end

if (Gl_oso == DBYES) then
begin
BCssp3: Glssp == DBNO;
end
```

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# Glsst_tim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsst_tim | FP | DMuns7 |

### 1.1 Glsst_tim

SCCP Network management Subsystem Status Test Timer

### 1.2 Description

This global parameter is populated when SCCP is populated on the GSM. SCCP Network Management uses this parameter to determine the duration (secs.) between sending SST messages.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 30

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** rc access: none

***Retrofit Rules:*** None.

***Default Rules:*** default = 30;

***Distribution Rules:***

```
for gsm_net in RLgsm_net
begin
        pcrlist[gsm_net.gsm] = true;
end
```

***Checks:***

```
(current if _ is pcr _ sm in _ then all)
begin
       /* RULE about Glsst_tim.values:*/
        Glsst_tim is in {30 thru 90};
end
```

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# Glsst

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsst | FR | DMbool |

### 1.1 Glsst

Global Office Parameter Glsst

### 1.2 Description

Determines whether Short Supervisory Transitions (SSTs) are recorded for all billable calls. When set to DBYES, up to 16 SSTs can be recorded per call. (AMA call type 034 = SST.)

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glsst.values: */
  Glsst is_in {DBYES, DBNO};
```

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# Glst_mnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glst_mnt | FR | DMuns5 |

### 1.1 Glst_mnt

Global Office Parameter Glst_mnt

### 1.2 Description

This parameter contains the number of digits that must be collected before outpulsing can occur when an operator calls through the ISP (intermediate switch point).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = 2

***;***

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glst_mnt.values: */
  Glst_mnt is_in {2 thru 31};
```

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# Glstatact

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glstatact | LPFP | DMbool |

### 1.1 Glstatact

Global Office Parameter Glstatact

### 1.2 Description

| | |
|---|---|
| True | Feature 'Metering Statistics' active. Glstatopt must be DBYES. |
| False | Feature 'Metering Statistics' not active. |
| DBYES | For the Netherlands. |
| DBNO | For most other countries. Used by Export. |

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* Populate on all SMs */
         for modatt in RLmodatt
         pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glstatact.values: */
/* no check */ ;
```

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# Glstatopt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glstatopt | LR | DMbool |

### 1.1 Glstatopt

Global Office Parameter Glstatopt

### 1.2 Description

| | |
|---|---|
| True | Feature 'Metering Statistics' active. |
| False | Feature 'Metering Statistics' not active. Glstatact must be DBNO and not changeable. |
| DBYES | For the Netherlands. |
| DBNO | For most other countries. Used by Export. |

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** None

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glstatopt.values: */
/* no check */ ;
```

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# Glstdcpect

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glstdcpect | FP | DMushort |

### 1.1 Glstdcpect

Count of National (formerly Standard) CPE users on an SM

### 1.2 Description

This global parameter is an SM's count of National CPE users on an SM. Its value is maintained over all initializations and updated vi RC as STD CPE users are assigned or deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** TMi_trig

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter is supported by RC and ODA. It is established by ODA and will be updated by RC as standard CPE users are inserted or deleted. Its value can increase and decrease. This global parameter is not shown in any RC view or ODA form.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:*** default = 0;

***Distribution Rules:***

```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:*** AVextern.R

***Checks:***

```
/* RULE about Glstdcpect.values: */

if (current_pcr is_in sm_all) then
begin
        Glstdcpect is_in {0 thru AVSMDLINES_PAM()};
end
```

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```
/* RULE about Glstdcpect: */

if (current_pcr is_in sm_all) then
begin
        /* Loop through RLdslequip and sum the maxterm values
         * for DSLs with briclass of BRI_STD (i.e standard CPE
         */
        let maxterm = sum {dslequip in RLdslequip
                    where (dslequip.briclass == BRI_STD)}.maxterm;

        Glstdcpect == maxterm;
end
```

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# Glstp2is2

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glstp2is2 | FP | DMuns4 |

### 1.1 Glstp2is2

REX Step 2 DGN testing periodicity for ISLU2

### 1.2 Description

Step 2 diagnostics are used once every Glstp2is2 times that a ISLU2 is REX DGN tested, and Step 1 diagnostics are used the other Glstp2is2 - 1 times. This parameter can have different values in different SMs.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** ---

***SM Initial Value:*** 3

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Cannot be modified by RC.

***Retrofit Rules:*** None.

***Default Rules:*** default = 3;

***Distribution Rules:*** for modatt in RLmodatt pcrlist[modatt.module] = true;

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
/* Allowable range is 1 - 8 */
          Glstp2is2 is_in { 1 thru 8 };
end
```

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# Glstp2lu3

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glstp2lu3 | FP | DMuns4 |

### 1.1 Glstp2lu3

Global Office Parameter Glstp2lu3

### 1.2 Description

Step 2 diagnostics are used once every Glstp2lu3 times that a LU3 is REX DGN tested, and Step 1 diagnostics are used the other Glstp2lu3 - 1 times. This parameter can have different values in different SM's.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 3

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This value should be preserved over a retrofit. A RC view (8.27) and ODA form (5510) per-SM field is required.

***Retrofit Rules:*** not applicable

***Default Rules:*** default = 3;

***Distribution Rules:***

```
        /* Populate on all SMs */
         for modatt in RLmodatt
         pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glstp2lu3: */
for pcr in sm_all
begin
         Glstp2lu3 on pcr is_in {1 thru 3};
end
```

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# Glstrigmax

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glstrigmax | FR | DMuns3 |

### 1.1 Glstrigmax

Serial Trigger Maximum

### 1.2 Description

This per office parameter allow assignment of the number of times that an ASP call can serially trigger.

```
checks:
if ( Glstrigmax != 0 ) then
begin
          Glpvn_ofc must_equal DBPVN_SSP;
end
end

checks;
```

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** *

***SM Initial Value:*** 6

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:***

```
if ( Glpvn_ofc is DBPVN_SSP && SFID 126 is on ) then
         Glstrigmax must be in the range of 1 to 6
else if ( Glpvn_ofc is DBPVN_SSP && SFID 126 if off ) then
         Glstrigmax must be 3
```

***Retrofit Rules:*** not applicable

***Default Rules:*** default = 0;

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

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```
/* RULE about Glstrigmax.values: */
/* no check */ ;
```

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# Glsudb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsudb | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glsudb

### 1.2 Description:

The Glsudb global parameter contains an SM's current rlSUDB tuple count. It is verified during full initialization and updated as tuples are inserted via trigger functions.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions if additional tuples are required. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
        /* no checks */
```

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# Glsvc_cnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glsvc_cnt | FP | DMushort |

### 1.1 Fullname:

SVC count

### 1.2 Description:

This global parameter is the count of SVCs. In each SM, this parameter will indicate the total number of SVCs assigned to all FRBCs and is used to determine the number of RLdalb tuples to allocate.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is support by RC and ODA. It is established by ODA and will be updated by RC as SVCs are inserted or deleted. Its value can increase and decrease.

***Retrofit Rules:*** not-applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Glsvc_cnt.values: */

if (current_pcr is_in { 1 thru 192 }) then
begin
        Glsvc_cnt == (sum RLfrbc_svc.num_mem);
end
```

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# Glswfacpm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glswfacpm | LRFR | DMbool |

### 1.1 Glswfacpm

Switch Allow Status of DS1 Facility Performance Monitoring

### 1.2 Description

This global parameter indicates whether DS1 facility performance monitoring is allowed, on a per-switch basis.

DBYES Means that DS1 performance monitoring is allowed on the entire switch.

DBNO Means that DS1 performance monitoring is inhibited on the entire switch.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***TRIGGER:*** TMpmparupd

***SM Initial Value:*** DBYES

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** This parameter must be settable by ODA and recent changeable on a switch basis.

***Retrofit Rules:*** not applicable

***Default Rules:*** default = DBYES;

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glswfacpm.values: */
/* no check */ ;
```

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# Glswpm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glswpm | LRFR | DMbool |

### 1.1 Glswpm

Global Office Parameter Glswpm

### 1.2 Description

This office parameter is used to indicate if layer 1 performance monitoring is turned on or off on the entire switch. This office parameter will be AM, PIP, and SM redundant. It is to be recent change updateable on a switch basis.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** default = DBYES

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glswpm.values: */
/* no check */ ;
```

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## 3.30 Glt

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# Glt1ofn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glt1ofn | LR | DMbool |

### 1.1 Glt1ofn

Global Office Parameter Glt1ofn

### 1.2 Description

This AM parameter indicates the current setting of the option for reporting, via the SM status indicator, when SLC(R) 96 T1 facilities are off normal (out of service or on protection). If the parameter is set to DBYES then whenever a SLC(R) 96 T1 facility is on protection the SM status will be updated to `SLC PLS'. If a facility is out of service the SM status will be set to `CKT OOS'. If the option is set to DBNO then the SM status indicator will not be affected by any SLC(R) 96 T1 facilities. This parameter must be set by ODA and changeable with ODBE. RC/V does not apply.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** 0

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** ODA must ask the office whether they want this option initially on or off and populate this parameter accordingly

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glt1ofn.values: */
Glt1ofn is_in {DBYES, DBNO};
```

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# Glt301

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glt301 | FR | DMlong |

### 1.1 Glt301

T301 - Q.931 ringing timer

### 1.2 Description

This parameter is used as the Q.931 ringing timer value for BRI (T301). This timer is initiated once an Q.931 ALERTing message is received on a BRI (indicating that the CPE is alerting). If T301 expires before receiving any messages (such as Q.931 CONNect, DISConnect), then the terminating BRI is cleared.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 300000

***AM Initial Value:*** 300000

***CMP Initial Value:*** 300000

***RC/ODA Rules:*** Valid values are 180000 to 420000 in steps of 60000 (on view/form 3 to 7 minutes in steps of 1 minute). The default is 300000 (5 minutes).

***Retrofit Rules:*** preserved across a generic retrofit and set to default value when retrofit to 5E7.

***Default Rules:***
```
default = 300000;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glt301.values: */
Glt301 is_in {180000, 240000, 300000, 360000, 420000};
```

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# Glt303

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glt303 | FR | DMshort |

### 1.1 Glt303

T303 - Q.931 SETUP response timer

### 1.2 Description

This parameter is used as the Q.931 SETUP response timer value for BRI (T303). This timer is initiated when a Q.931 SETUP message is sent to CPE on a BRI. The timer is cancel when further call progress messages are received (that is, ALERTing, CONNect, DISConnect). If the timer expires, then excessive call delay procedures apply; a second SETUP is sent and T303 is re-started if no CALL_PROCeeding message is received. If no response is received before the second T303 expires, then the terminating BRI is cleared.

***Type :*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2500

***AM Initial Value:*** 2500

***CMP Initial Value:*** 2500

***RC/ODA Rules:*** Valid values are 1000 to 4000 in steps of 500 (on view/form 1 to 4 seconds in steps of 0.5 seconds). The default is 2500 (2.5 seconds).

***Retrofit Rules:*** Preserved across a generic retrofit and set to default value when retrofit to 5E7.

***Default Rules:***
```
default = 2500;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glt303.values: */
Glt303 is_in {1000, 1500, 2000, 2500, 3000, 3500, 4000};
/* RULE about Glt303: */
Glt303 < Glt310;
```

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# Glt306

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glt306 | FR | DMlong |

### 1.1 Glt306

T306 - ISDN Tone and Announcement timer

### 1.2 Description

This parameter is used as the ISDN Tone and Announcement timer value (T306). This timer is initiated once a tone or announcement is applied to a BRI voice call. If the timer expires prior to the user disconnecting, then the BRI is cleared.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 60000

***AM Initial Value:*** 60000

***CMP Initial Value:*** 60000

***RC/ODA Rules:*** Valid values are 30000 to 150000 in steps of 30000 (on view/form 30 to 150 seconds in steps of 30 seconds). The default is 60000 (60 seconds).

***Retrofit Rules:*** preserved across a generic retrofit and set to default value when retrofit to 5E7.

***Default Rules:***
```
default = 60000;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glt306.values: */
Glt306 is_in {30000, 60000, 90000, 120000, 150000};
```

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# Glt310

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glt310 | FR | DMshort |

### 1.1 Glt310

T310 - Q.931 CALL_PROCeeding timer

### 1.2 Description

This parameter is used as the Q.931 CALL_PROCeeding timer value for BRI (T310). This timer is start when a Q.931 CALL_PROCeeding message is received in response to Q.931 SETUP message sent on a BRI. The timer is canceled once additional call progress messages are received (that is, ALERTing, PROGress, CONNect, DISConnect). If T310 expires before any response is received then the terminating BRI is cleared.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 5000

***AM Initial Value:*** 5000

***CMP Initial Value:*** 5000

***RC/ODA Rules:*** Valid values are 3000 to 10000 in steps of 1000 (on view/form 3 to 10 seconds in steps of 1 second). The default is 5000 (5 seconds).

***Retrofit Rules:*** preserved across a generic retrofit and set to default value when retrofit to 5E7.

***Default Rules:***
```
default = 5000;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glt310.values: */
Glt310 is_in {3000, 4000, 5000, 6000, 7000, 8000, 9000, 10000};
/* RULE about Glt310: */
Glt310 > Glt303;
```

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# Glt316

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glt316 | FR | DMlong |

### 1.1 Glt316

T316 - Q.931 RESTART response timer

### 1.2 Description

This parameter is used as the Q.931 RESTART response timer value. This timer is initiated when a Q.931 RESTART message is sent. The timer is canceled when a Q.931 RESTART ACKNOWLEDGE message is received.

This parameter is entered in seconds, but stored internally in milliseconds.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 30000

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Valid values for this parameter are from 10000 thru 120000 in intervals of 10000. (On view/form 10 to 120 seconds in steps of 10 seconds). The default value is 30 seconds.

***Retrofit Rules:*** The value of this parameter should be preserved across a retrofit. When starting an office with 5E9, this parameter should be set to its default value.

***Default Rules:***
```
default = 30000;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glt316.values: */
Glt316 is_in {10000 thru 120000 by 10000};
```

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# Glt320

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glt320 | FR | DMuchar |

### 1.1 Glt320

Global Office Parameter - Timer 320

### 1.2 Description

This global office parameter will contain the t320 timer used by a packet switching On-Demand B-Channel with conditional notification. The T320 timer is started when the switch sends or receives a CONNect message or after clearing of the last virtual circuit. The timer is canceled when a new virtual call is established or when the user initiates B-channel disconnection procedures for the B-channel. This parameter must exist on all ISDN switch modules.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 30

***AM Initial Value:*** 30

***CMP Initial Value:*** 30

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** Retrofit from 5E7 to 5E8:
The Global Office Parameter Glt320 must be created on all ISDN SMs and populated with a value of 30.

***Default Rules:***
```
default = 30;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glt320.values: */
/* no check */ ;
```

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# Gltatdb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltatdb | FP | DMushort |

### 1.1 Fullname:

Terminating Attempt Trigger Data Blocks

### 1.2 Description:

The Gltatdb global parameter contains an SM's current rlTATDB tuple count. It is verified during full initializations and updated as tuples are inserted or deleted via trigger functions.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is not supported by RC. If SFID126 is not active, Gltatdb must equal 0. The value of this parameter is established by ODA and will be updated by trigger functions as terminating attempt triggers are assigned to or unassigned from lines. It will never be decreased.

***Retrofit-ODA Rules:*** Not applicable

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
"env.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
```

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```
/* RULE about Gltatdb.values: */

/*      Gltatdb is_in {0 thru (DBQNTATDB - DBSFTATDB)}; */
        Gltatdb is_in {0 thru (546 - 0)};


if (runucv) then
begin
/* RULE about Gltatdb: */

if (Glpvn_ofc == DBPVN_SSP) then
begin

        /*
         * Compute the number of tuples needed for Provisioned
         * Busy and No Answer Terminating trigger calls.
         * (Refer to fc/FCtrigint/MCdbqasltm.c for details).
         */
        let tblna_trig = (Gltbllines > 0 || Gltnalines > 0 ||
        Gltatlines > 0) ?
                        ((Gltbllines + 2879) / 2880)  +
                        ((Gltnalines + 79) / 80)  +
                        ((Gltatlines + 719) / 720)    : 0;

        /* Compute the number of RLtatdb tuples needed by ASP
         * on the terminating  side of the call.
         * Multiply the call rate (2.5) by the fraction of calls
         * that use ASP by the average holding time. The fraction
         * of calls that use ASP is equal to the number of lines
         * with Terminating attempt triggers assigned multiplied
         * by the approximate percent of times a query will be
         * sent to the SCP. Calls to DNs with TATs assigned
         * will query 100% of the time, and 5% of the DNs returned
         * by the SCP will be DNTs which will cause another query,
         * so the total is 105%.
         *
         * Add a factor into the algorithm for Busy Line No Answer
         * calls which also use RLtatdb tuples. Approx 10% of all
         * originating trigger ASP calls will have a NEL in the
         * ANALYZE ROUTE message, that is, a BLNA call.  Tats can
         * have NELs returned also, but the RLtatdb tuple is
         * reused so no additional tuples are allocated.
         *
         * Since prl does not support floating point math, and to
         * prevent division by 0, the following formula has been
         * simplified to the result used in the following
         * calculation.
         *
         * mu = (crpl  * Gltatlines* f.tatquery * hold.time)
         *      + (Glaspbase * f.blna)
         *    = (2.5 * Gltatlines * 1.05 * (210/3600)) +
         *(Glaspbase * 1/10);
        /*
         * Compute the number of tuples needed for Busy Line No
```

```
 * Answer Originating trigger calls using both the office
 * wide trigger and those provisioned on lines.
 * The penetration of BLNA Originating triggers is 40%
 * which is the weighted average of busy or unanswered
 * calls.
 *
 * Because the SFID lock cannot be checked in the PRL
 * code, the global parameters Glorgbltrg and Glorgnatrg,
 * which contain the trigger numbers, are used to indicate
 * that BLNA office originating trigger feature is active.
 * The global parameter Globlnalin stores the count of
 * lines which have either the busy line or no answer
 * trigger assigned and active on lines.
 * The holding time is 210/3600 seconds, which is the
 * weighted average of busy, no answer and answer.
 *
 * let ofcblnatrig= ((Glorgbltrg > 0 ||
 * Glorgnatrg  > 0 ) ? ZZZ : 0);
 *      where ZZZ is defined similarly to ssp_base as
 *      follows:
 *
 * ZZZ = call rate per lines * number of lines *
 *       holding time * proportion of calls using BLNA
 *       originating or busy triggers
 *
 * let ofcblnatrig =(crpl * (Glalinecnt + Glshanal +  *
 *               Glmaxterm) f_otrig * otrig_hold);
 *
 * let oblnatrig =(crpl * Globlnalin) *
 *               f_otrig * otrig_hold);
 *
 *
 * f_otrig = 100%;
 * otrig_hold = 20/3600 sec;
 * In reduced form this is
 * ( Glalinecnt + Glshanal + Glmaxterm )/72
 *
 * Then let mu = mu + blnatrig
 */

/* Compute the office wide BLNA trigger */
let ofcblnatrig =(Glorgbltrg > 0 || Glorgnatrg > 0 ) ?
        ( ( 7 * (Glalinecnt + Glshanal + Glmaxterm) +
                                          119 )/120 ) : 0;

/* Compute the provisioned  BLNA trigger */
let oblnatrig =( Globlnalin > 0 ) ? ((( 7 * Globlnalin ) +
                                        119 ) /120 ) : 0;

/* Combine all BLNA trigger values */
let blnatrig = ofcblnatrig + oblnatrig;


let mu =(((Gltatlines * 49) + 319)/320) +
```

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```
                    (((Glaspbase * 1) + 9)/10) + blnatrig +
                      tblna_trig;
        let sigma = sqrt (mu);
        let tatdb = mu + (5 * sigma);

/*      if (tatdb + Glitatdb <= (DBQNTATDB - DBSFTATDB)) then   */
        if (tatdb + Glitatdb <= (546 - 0)) then
                Gltatdb >= tatdb + Glitatdb;
        else
/*              Gltatdb == DBQNTATDB - DBSFTATDB;       */
                Gltatdb == 546 - 0;
end
else
begin
        Gltatdb == 0;
end

end
end
```

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# Gltatdbavl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltatdbavl | FR | DMbool |

### 1.1 Gltatdbavl

Global Office Parameter Gltatdbavl

### 1.2 Description

Usage: This flag is used internal to the switch to indicate that TATDB tuples have been inserted into the data base, and should be audited. ODA will always set to DBNO.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gltatdbavl.values: */
/* no check */ ;
```

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# Gltatlines

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltatlines | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter count of terminating attempt triggers assigned to lines

### 1.2 Description:

The Gltatlines global parameter contains an SM's count of terminating attempt triggers assigned to lines and active in RLasp_ltm. Its value is maintained over all initializations and updated via trigger functions as terminating attempt triggers are inserted or deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as terminating attempt triggers are inserted or deleted.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gltatlines.values: */

Gltatlines is_in {0 thru 28800};


/* RULE about Gltatlines: */
```

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```
                Gltatlines == count { asp_ltm in RLasp_ltm
                      where (asp_ltm.tat_act == DBYES) };


end
```

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# Gltbllines

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltbllines | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter count of Terminating Busy Line triggers assigned to lines

### 1.2 Description:

This global parameter records the number of subscribed Terminating Busy Line triggers provisioned on lines on an SM. It is calculated during retrofit and incremented/decremented when T_Busy Line triggers are added or deleted. Its value is maintained over all initializations and updated via RC as Terminating Busy Line triggers are inserted or deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** The value of this parameter is established by ODA and will be updated by RC as Terminating Busy Line triggers are inserted or deleted.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit. The formula as described in the population rules will be incorporated into Glparams.V .

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gltbllines.values: */

        Gltbllines is_in {0 thru 65000};
```

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```
/* RULE about Gltbllines: */

        Gltbllines == count { asp_ltm in RLasp_ltm
                      where (asp_ltm.t_bltrig_act == DBYES) };

end
```

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# Gltcapcic

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltcapcic | LRFR | DMbool |

### 1.1 Gltcapcic

Global Office Parameter Gltcapcic, indicator for sending the TCAP CIC Expansion parameter for Feature Group D

### 1.2 Description

This boolean parameter indicates to the service control point (SCP) whether or not the service switching point (SSP) is capable of handling a four-digit carrier identification code (CIC). DBYES means that a 4-digit CIC is used; DBNO means that the 3-digit CIC is still being used.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gltcapcic.values: */
        /* no check */ ;
```

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# Gltcapout

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltcapout | FR | DMuns7 |

### 1.1 Fullname:

AILS TCAP timeout parameter

### 1.2 Description:

The Gltcapout global parameter holds the AILS timeout parameter which indicates the longest period of time that call processing can expect for the TCAP query. Values are entered to the nearest tenth of a second but stored internally as the number of seconds times ten. The range is from 0.5 to 10.0 seconds (internally 5 to 100). The default is two seconds (internally 20).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5e9_1 or 5e9_2, this parameter must be set to the value Gloff3{7:13}.

***Default Rules:***
```
default = 20;
```

***Distribution Rules:***
```
        /* standard */
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Gltcapout.values */
        if (runucv) then
        Gltcapout is_in {5 thru 100};
```

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# Gltcfg_time

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltcfg_time | FP | DMsecond |

### 1.1 Gltcfg_time

Global Office Parameter Gltcfg_time

### 1.2 Description

Trunk clear forward guarding timer. This timing is used to limit the time that a trunk can send a tone or the time that a trunk waits for clear forward after it has sent a signal to request a release of the connection. This timer is also used in exchanges between the supervision point and the B-party, as an extra safeguard to limit the ringing of the phone of the B-party. Used by Export.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 255

***AM Initial Value:*** 255

***CMP Initial Value:*** 255

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
     /* RULE about Gltcfg_time.values: */
     Gltcfg_time is_in {30 thru 255};
end
```

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# Gltcppkt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltcppkt | LRFR | DMushort |

### 1.1 Fullname:

Global Office Parameter Gltcppkt

### 1.2 Description:

The Gltcppkt global parameter contains an current rlTCPPKT tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as new OAP are assigned. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***

```
begin
default = 0;
end
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/*RULE about Gltcppkt.values: */

Gltcppkt is_in {0 thru 1200};
```

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# Gltcw_answ

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltcw_answ | FR | DMushort |

### 1.1 Fullname:

Global Office Parameter Talking Call Waiting Answer Timer

### 1.2 Description:

This global parameter is used by the Talking Call Waiting Special Feature and indicates the maximum amount of time the switch waits for the IP to answer. Gltcw_answ can be set to a value from 0 to 10 seconds in increments of .1 seconds and is stored as milliseconds.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2000

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Since TCW is a secured feature, this parameter must be 0, if this feature has NOT been purchased (#SFID331).

***Retrofit Rules:*** This data was previously stored in global Parameter Glsf9dummy During a retrofit to 5E14, this global parameter must be initialized to the value stored in Glsf9dummy in 5E13, before Glsf9dummy is reset to a value of 0 in 5E14.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard - FR ( SM ) */
```

***Checks:***

```
/* RULE about Gltcw_answ.values: */

Gltcw_answ is_in {0000 thru 10000};

Gltcw_answ%100 == 0;
```

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# Gltcw_disc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltcw_disc | FR | DMushort |

### 1.1 Fullname:

Global Office Parameter Talking Call Waiting Disconnect Timer

### 1.2 Description:

This global parameter is used by the Talking Call Waiting Special Feature and indicates the maximum amount of time the switch waits for the IP to disconnect. Gltcw_disc cAn be set to a value from 0 to 10 seconds in increments of .1 seconds and is stored as milliseconds.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 3000

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Since TCW is a secured feature, this parameter must be 0, if this feature has NOT been purchased (#SFID331).

***Retrofit Rules:*** This data was previously stored in During a retrofit to 5E14, this global parameter must be initialized to the value stored in global parameter Glsf10dumm before Glsf10dumm is reset to a value of 0 in 5E14.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard - FR ( SM ) */
```

***Checks:***
```
/* RULE about Gltcw_disc.values: */

Gltcw_disc is_in {0000 thru 10000};

Gltcw_disc%100 == 0;
```

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# Gltd2disp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltd2disp | FR | DMushort |

### 1.1 Gltd2disp

Global Office Parameter Gltd2disp

### 1.2 Description

This parameter is the TD-2 Display Timer in seconds. The value specifies the length of time that selected displays should appear on a BRI CPE. For example, a Q.931 Display Text IE contains non-blank information and is sent during call clearing. A timer is started and set for the number of seconds specified in this parameter. When the timer expires, a Display Text IE to clear the display will be sent in a Q.931 information message to the CPE. This parameter represents the TD-2 Timer specified by Bellcore in TR-NWT-000865 Generic Requirements for ISDN Display for Call Control and Selected Services.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 30

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 30;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gltd2disp.values: */
Gltd2disp is_in {10 thru 60};
```

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# Gltdisc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltdisc | FR | DMmillis |

### 1.1 Gltdisc

Global Office Parameter Gltdisc

### 1.2 Description

Gltdisc specifies the time to wait for the disconnect message from the IP. At expiration of the timer the call is torn down. Gltdisc is specified in milliseconds.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4000

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** SFID229 must be turned on before Gltdisc can be changed from the default.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 4000;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gltdisc.values: */
Gltdisc is_in { 1000,
                1500,
                2000,
                2500,
                3000,
                3500,
                4000};
```
6.0

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# Gltdr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltdr | FP | DMbool |

### 1.1 Gltdr

Global Office Parameter Gltdr

### 1.2 Description

Time Dependent Routing

```
DBYES = SM growth is complete
DBNO  = SM growth is in progress
        (No Audits, No Trigger)
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** This parameter is set to DBYES during SM growth after the RLtdr relation is copied to the new SM when the post pump field in RC/V 18.1 is changed from DBNO to DBYES. ODA & EVL will always set this global parameter to DBYES as its final transaction for all operational SM's (modatt.eqstat == smoper).

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* no checks.*/
Gltd2disp is_in {10 thru 60};
```

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# Gltdtmfovr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltdtmfovr | FR | DMbool |

### 1.1 Fullname:

TDMA DTMF Override

### 1.2 Description:

This parameter is used for the CDMA DTMF Tone Generation Programmability application on the *5ESS*®-2000 switch. This parameter, if set to DBYES, will allow vendors to specify the DTMF on and off durations for TDMA calls.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** RC and ODA will not allow the end-user to provision this parameter. RC and ODA will only support the default value, DBNO, for this parameter at this time. RC View 8.1, Office Parameters, will support this parameter.

***Retrofit Rules:*** The value of this parameter will be maintained in the next generic.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
        Gltdtmfovr == DBNO;
```

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# Gltdwind

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltdwind | LR | DMshort |

### 1.1 Gltdwind

Global Office Parameter Gltdwind

### 1.2 Description

The amount of time that Time of Days has to complete TORCs. The range is specified in seconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 120

***CMP Initial Value:*** 120

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gltdwind.values: */

Gltdwind is_in {20 thru 240};
```

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# Gltdxcarid

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltdxcarid | FR | DMbcarid |

### 1.1 Fullname:

TDX carrier id

**Defines:**
db/DMcarr_val.h

### 1.2 Description:

The global parameter, Toll Digital Exchange carrier id., specifies the carrier to be used for toll digital exchange calls. Range of carrier allowed to be entered is 0 - 9999. If no carrier is entered on the view then map to $NULL_BCARID. Carrier id must exist in relation RLrc_cirmk and view 10.3 and must be feature group D (FGD).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10000

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = $NULL_BCARID;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gltdxcarid.values: */
Gltdxcarid is_in {0 thru $FGDMAXBCAR, $NULL_BCARID};

/* RULE about Gltdxcarid: */
if (Gltdxcarid != $NULL_BCARID) then
begin
        let str() = itoa(Gltdxcarid);
        let len() = 4 - length(str());
        let carr() = (len() == 0) ? str() :
```

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```
                    strcat(substr("0000", 0, len()), str());
        find == 1 rc_cirmk in RLrc_cirmk
        where (rc_cirmk.carrid == carr() &&
               rc_cirmk.featgrp == FGD_CARR);
end
```

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# Gltedb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltedb | FP | DMushort |

### 1.1 Gltedb

Global Office Parameter Gltedb

### 1.2 Description

This parameter is the number of RLtedb data blocks allocated on this SM. It is determined initially at full init time. And updated as tuples are added via trigger functions. It is not meant to be an externally visible parameter.

This parameter should exist on all SMs. INCONSISTENCY (FP in distribution type and should exist on all SMs in description)

***Type:*** DBSHORTPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA should always populate it to zero.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
     /* RULE about Gltedb.values: */
     Gltedb is_in {0 thru 65535};
end
```

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# Glteila

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glteila | FP | DMteila |

### 1.1 Glteila

Global Office Parameter Glteila

### 1.2 Description

This parameter contains a count of the number of RLteila tuples that have been allocated. All TEILAs should either be linked to a DPB or linked to the RLdb_headc tuple associated with the TEILA idle list.

***Type :*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This attribute is originally populated to its default value by ODA. It should only be modified by call processing initialization code.

***Retrofit Rules:*** This parameter should be preserved across generic retrofits.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
      /* RULE about Glteila.values: */
      /* Glteila is_in { 0 thru (DBQNTEILA - DBSFTEILA) }; */
      Glteila is_in { 0 thru (16382 - 0) };
end
```

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# Gltera_dsk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltera_dsk | LRFR | DMtera_dsk |

### 1.1 Gltera_dsk

Global Office Parameter Gltera_dsk

### 1.2 Description

Determines if machine detected interoffice irregularities (MDII) are routed to Trunk Error Analysis.d Gltera_dsk should be populated with TMTERA when the operating company has no off-line system for MDII analysis.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** TMTERA

***AM Initial Value:*** TMTERA

***CMP Initial Value:*** TMTERA

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = TMTERA;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gltera_dsk.values: */
Gltera_dsk is_in {TMTERANULL, TMTERA};
```

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# Gltermcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltermcnt | FP | DMushort |

### 1.1 Gltermcnt

Global Office Parameter Gltermcnt

### 1.2 Description

This is the number of RLis_term tuples on an SM. If there are no RLis_term tuples, Gltermcnt should be set to zero.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
     /* RULE about Gltermcnt.values: */
     Gltermcnt is_in {0 thru 65535};
end
```

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# Gltg0rn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltg0rn | FP | DMushort |

### 1.1 Gltg0rn

Global office parameter Gltg0rn.

### 1.2 Description

Number of member numbers set aside for the first trunk group served by the IBM(R) DAS.

The OSPS Port to IBM(R) position ID mapping allows the OSPS owner to obtain IBM(R) position ID's for each of the ARU trunk group ports (members) associated with the IBM(R) directory assistance system(s) (DAS) working in conjunction with an OSPS.

Ten parameters are specified within ODA and RC/V to produce the required mapping. Glposmn assigns the minimum OSPS position number and Glposrn assigns the range of sequential positions, from the minimum position, that may interface with the IBM(R) DAS. The range parameters (Gltg[0-7]rn) for ARU trunk groups indicate the maximum member range for each of up to eight ARU trunk groups which may interface with a Directory Assistance System(s).

Each of the parameters for the ARU trunk groups (Gltg[0-7]rn) apply to both internal OSPS DSU2-RAF trunk groups as well as external ARU trunk groups which connect to IBM(R) DAS ARU's. The remainder from the division of the trunk group number divided by eight is referred to as the `IBM(R) trunk group index.' Each ARU trunk group associated with a particular IBM(R) DAS must have a unique IBM(R) trunk group index. The first trunk group RANGE parameter specifies the range of the largest trunk group with a Trunk Group Number (TGN) that is a multiple of eight (IBM(R) Trunk Group Index of zero) and interfaces with an IBM(R) DAS. The second RANGE parameter applies to any IBM(R) DAS-associated trunk group with an IBM(R) trunk group index of 1, etc.

Assume an office requires two DAS Systems, DAS1 and DAS2; a trunk group to DAS1 (TGN 256) needs 200 members and a trunk group to DAS2 (TGN 504) requires 350 members. The first trunk group RANGE parameter is set to 350. The RANGEs specified must include room for growth. If any RANGE parameter is later modified, it will affect all the Position ID's of ARU members in groups with a larger IBM(R) trunk group index, and will require reassignment in the IBM(R) DAS.

If Glposrn is zero, then Gltg0rn must be zero and must appear as unknown on the RC and ODA screens.

The sum of all the RANGES for positions and trunk groups may not exceed 9000. This is an IBM(R) system limit. Note that the 9000 range must be potentially shared with other switching systems that use a given IBM(R) DAS. Therefore, ODA (not RC) should give a warning when the sum of all ranges exceeds 4500, indicating that over half the available array in the IBM(R) DAS has been allocated for this office alone, and reassessment may be required if other offices share an IBM(R) DAS. This warning should also appear in the RC documentation.

Glposrn + Gltg0rn + Gltg1rn + Gltg2rn + Gltg3rn + Gltg4rn + Gltg5rn + Gltg6rn + Gltg7rn must be less than 9001.

Glposrn + Gltg0rn + Gltg1rn + Gltg2rn + Gltg3rn + Gltg4rn + Gltg5rn + Gltg6rn + Gltg7rn SHOULD be less than 4501, else ODA warning.

If Glposrn is not zero, then Gltg0rn + Gltg1rn + Gltg2rn + Gltg3rn + Gltg4rn + Gltg5rn + Gltg6rn + Gltg7rn must be greater than zero (at least one of these global parameters must not be zero).

Prior to 5E6(2), this global must always equal the default.

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***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
     /* RULE about Gltg0rn.values: */
     Gltg0rn is_in {0, 2 thru 1952};
end
```

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# Gltg1rn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltg1rn | FP | DMushort |

### 1.1 Gltg1rn

Global office parameter Gltg1rn.

### 1.2 Description

Number of member numbers set aside for the second trunk group served by the IBM(R) DAS.

See comments for global Gltg0rn.

Prior to 5E6(2), this global must always equal the default.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
      /* RULE about Gltg1rn.values: */
      Gltg1rn is_in {0, 2 thru 1952};
end
```

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# Gltg2rn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltg2rn | FP | DMushort |

### 1.1 Gltg2rn

Global office parameter Gltg2rn.

### 1.2 Description

Number of member numbers set aside for the third trunk group served by the IBM(R) DAS.

See comments for global Gltg0rn.

Prior to 5E6(2), this global must always equal the default.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
      /* RULE about Gltg2rn.values: */
      Gltg2rn is_in {0, 2 thru 1952};
end
```

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# Gltg3rn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltg3rn | FP | DMushort |

### 1.1 Gltg3rn

Global office parameter Gltg3rn.

### 1.2 Description

Number of member numbers set aside for the fourth trunk group served by the IBM(R) DAS.

See comments for global Gltg0rn.

Prior to 5E6(2), this global must always equal the default.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
      /* RULE about Gltg3rn.values: */
      Gltg3rn is_in {0, 2 - 1952};
end
```

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# Gltg4rn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltg4rn | FP | DMushort |

### 1.1 Gltg4rn

Global office parameter Gltg4rn.

### 1.2 Description

Number of member numbers set aside for the fifth trunk group served by the IBM(R) DAS.

See comments for global Gltg0rn.

Prior to 5E6(2), this global must always equal the default.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
       /* RULE about Gltg4rn.values: */
       Gltg4rn is_in {0, 2 thru 1952};
end
```

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# Gltg5rn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltg5rn | FP | DMushort |

### 1.1 Gltg5rn

Global office parameter Gltg5rn.

### 1.2 Description

Number of member numbers set aside for the sixth trunk group served by the IBM(R) DAS.

See comments for global Gltg0rn.

Prior to 5E6(2), this global must always equal the default.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
      /* RULE about Gltg5rn.values: */
      Gltg5rn is_in {0, 2 thru 1952};
end
```

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# Gltg6rn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltg6rn | FP | DMushort |

### 1.1 Gltg6rn

Global office parameter Gltg6rn.

### 1.2 Description

Number of member numbers set aside for the seventh trunk group served by the IBM(R) DAS.

See comments for global Gltg0rn.

Prior to 5E6(2), this global must always equal the default.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
     /* RULE about Gltg6rn.values: */
     Gltg6rn is_in {0, 2 thru 1952};
end
```

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# Gltg7rn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltg7rn | FP | DMushort |

### 1.1 Gltg7rn

Global office parameter Gltg7rn.

### 1.2 Description

Number of member numbers set aside for the eighth trunk group served by the IBM(R) DAS.

See comments for global Gltg0rn.

Prior to 5E6(2), this global must always equal the default.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
      /* RULE about Gltg7rn.values: */
      Gltg7rn is_in {0, 2 - 1952};
end
```

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# Glthdcoalw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glthdcoalw | FR | DMbool |

### 1.1 Glthdcoalw

Global office parameter Glthdcoalw.

### 1.2 Description

This parameter indicates whether OSPS quiet hear service should be applied on calls that are billed with a third number class-of-charge.d

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5e10.1, this parameter must be set to the value in bit 16 in Gloff6.

***Default Rules:***
```
default = DBYES;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glthdcoalw.values: */

        /* no check */ ;
```

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# Glthdsk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glthdsk | LR | DMlong |

### 1.1 Fullname:

Global Office Parameter Glthdsk

### 1.2 Description:

This parameter is used to control access to the disk. When a disk access results in a failure this parameter is set with the current timestamp. Future disk accesses are only allowed when the current timestamp is two minutes past the timestamp value contained in this parameter.

This parameter is set at system process initialization by the DB function DBdiskinit(), in response to a message MDSI_DBDSK received from AIM, or at routine intervals if the disk becomes inaccessible (DDSDSDP OFFNORMAL). During retrofit, ODA should set the parameter to zero.

This parameter is replacing the old dummy parameter, Glcp1dummy.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glthdsk.values: */

        /* no check */ ;
```

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# GlthotIntime

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| GlthotIntime | FP | DMmillis |

### 1.1 GlthotIntime

Global Office Parameter GlthotIntime

### 1.2 Description

This parameter defines how long (in milliseconds) the system will wait for a timed hotline subscriber to begin dialing before automatically connecting call to the subscriber's pre-defined direct connection number (stored in RLfc_dircon). Used by Export.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 5000

***AM Initial Value:*** 5000

***CMP Initial Value:*** 5000

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
     /* RULE about Glthotlntime.values: */
     Glthotlntime is_in {2000 thru 10000};
end
```

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# Glthr_mdii

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glthr_mdii | FR | DMuns8 |

### 1.1 Glthr_mdii

Global Office Parameter Glthr_mdii

### 1.2 Description

Specifies the threshold of machine detected interoffice irregularities (MDII) to be exceeded to generate an alarm message.

***Type :*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 20;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glthr_mdii.values: */
Glthr_mdii is_in {1 thru 255};
```

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# Glthresh

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glthresh | LR | DMuns5 |

### 1.1 Glthresh

Global Office Parameter Glthresh

### 1.2 Description

The count of failures above which is considered attempted fraud (also known as the failure threshold). Default is 30.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 30

***CMP Initial Value:*** 30

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 30;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glthresh.values: */
Glthresh is_in {4 thru 30};
```

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# Glti_t1

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glti_t1 | FR | DMlong |

### 1.1 Glti_t1

Global Office Parameter Glti_t1, Terminal

Initialization T1 Timer

### 1.2 Description

This global office parameter is used to define the no. of seconds the switch should wait for an initializing terminal to send the switch an initialization request. This time interval starts when Layer two (2) initialization results in TEI assignment, or when SABME is received in the case of FIXED TEI, or whenever the switch requests terminal initialization from the terminal. For software efficiency, valid values are expressed in milliseconds in increments of 1000 msec (1 sec).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2000

***AM Initial Value:*** 2000

***CMP Initial Value:*** 2000

***RC/ODA Rules:*** Valid values are 1000 through 30000 by 1000 which indicate 1,2,3,4, ..., 30 seconds. Default is 20000 (20 sec).

***Retrofit Rules:*** Preserved across a generic retrofit. Set to default value when retrofit to 5E8.

***Default Rules:***
```
default = 20000;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glti_t1.values: */
Glti_t1 is_in {1000 thru 30000 by 1000};
/*RULE about Glti_t1: */
/*      None    */
        /* no check */ ;
```

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# Gltimezone

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltimezone | LRFR | DMsshort |

### 1.1 Gltimezone

Global Office Parameter Gltimezone

### 1.2 Description

Number of hours difference from G.M.T. No population rules available.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** -6

***AM Initial Value:*** -6

***CMP Initial Value:*** -6

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = -6;
```

***Distribution Rules:***
```
standard
```

***Checks:***
```
/* RULE about Gltimezone.values: */
        /* no check */ ;
```

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# Gltkqcells

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltkqcells | FP | DMushort |

### 1.1 Gltkqcells

Total Trunk/SFG Queue Cells on SM

### 1.2 Description

This parameter is used to keep the total number of trunk/SFG queue cells on an SM. This global parameter, along with the Glnq_cells global parameter is used to determine when the maximum allowed queue cells per SM has been reached on a particular SM. This number will reflect the total pqsize + rqsize attributes of all the tuples in RLqu_ogtos.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** The value of this parameter should always be regenerated in the new generic.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) thenbegin
/* RULE about Gltkqcells values: */
Gltkqcells is_in {0 thru 4000};
end

/*RULE about GLtkqcells: */
if( current_pcr is_in sm_all ) then
begin
        /* Gltkqcells must equal total of all RLqu_ogtos.pqsize and
```

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```
         * RLqu_ogtos.rqsize
         * attributes on this SM.
         */
        let s1 = sum RLqu_ogtos.rqsize;
        let s2 = sum RLqu_ogtos.pqsize;
        Gltkqcells == s1 + s2;
end
```

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# Gltl1mnths

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltl1mnths | FR | DMuchar |

### 1.1 Fullname:

Minimum threshold value of DSL layer 1 errors

### 1.2 Description:

This office parameter is used to indicate the minimum (troubled) threshold for service-affecting Level 1 errors on TCPIP B1 channel DSLs for the entire switch. When this threshold is reached, an entry for this DSL protocol channel (DSL group and member) will be placed in a table that tracks DSLs experiencing errors and the entry is timestamped. If the maximum (remove) threshold (Gltl1mxths) is reached, the current time and the timestamp of the table entry are compared. If the time difference is less than a pre-defined time, the DSL is taken out-of-service. If the time difference is greater than the pre-defined time, then the error count is decremented by a pre-defined amount.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 5

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global parameter is recent changeable. ODA will set initial value to default value.

***Retrofit Rules:*** Value preserved during retrofit.

***Default Rules:***

```
default = 5;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
        /* RULES about Gltl1mnths: */

        /* the DSL layer 1 minimum threshold has a range of 0 - 127 */
        Gltl1mnths is_in { 0 thru 127 };

        /* the DSL layer 1 minimum threshold must be less than
         * or equal to the DSL layer 1 maximum threshold
         */
```

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```
Gltl1mnths <= Gltl1mxths;
```

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# Gltl1mxths

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltl1mxths | FR | DMuchar |

### 1.1 Fullname:

Maximum threshold value of DSL layer 1 errors

### 1.2 Description:

This office parameter is used to indicate the maximum (remove) threshold for service-affecting Level 1 errors on TCPIP B1 channel DSLs for the entire switch. When the minimum (troubled) threshold (Gltl1mnths) is reached, an entry for this DSL protocol channel (DSL group and member) will be placed in a table that tracks DSLs experiencing errors and the entry is timestamped. When the maximum threshold is reached, the current time and the timestamp of the table entry are compared. If the time difference is less than a pre- defined time, the DSL is taken out-of-service. If the time difference is greater than the pre-defined time, then the error count is decremented by a pre-defined amount.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global parameter is recent changeable. ODA will set initial value to default value.

***Retrofit Rules:*** Value preserved during retrofit.

***Default Rules:***

```
default = 10;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
        /* RULES about Gltl1mxths: */

        /* the DSL layer 1 maximum threshold has a range of 0 - 127 */
        Gltl1mxths is_in { 0 thru 127 };

        /* the DSL layer 1 maximum threshold must be greater
         * or equal to the DSL layer 1 minimum threshold
         */
```

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```
Gltl1mxths >= Gltl1mnths;
```

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# Gltl2mnths

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltl2mnths | FR | DMuchar |

### 1.1 Fullname:

Minimum threshold value of DSL layer 2 errors

### 1.2 Description:

This office parameter is used to indicate the minimum (troubled) threshold for service-affecting Level 2 errors on TCPIP B1 channel DSLs for the entire switch. When this threshold is reached, an entry for this DSL protocol channel (DSL group and member) will be placed in a table that tracks DSLs experiencing errors and the entry is timestamped. If the maximum (remove) threshold (Gltl2mxths) is reached, the current time and the timestamp of the table entry are compared. If the time difference is less than a pre-defined time, the DSL is taken out-of-service. If the time difference is greater than the pre-defined time, then the error count is decremented by a pre-defined amount.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 5

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global parameter is recent changeable. ODA will set initial value to default value.

***Retrofit Rules:*** Value preserved during retrofit.

***Default Rules:***

```
default = 5;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
        /* RULES about Gltl2mnths: */

        /* the DSL layer 2 minimum threshold has a range of 0 - 255 */
        Gltl2mnths is_in { 0 thru 255 };

        /* the DSL layer 2 minimum threshold must be less than
         * or equal to the DSL layer 2 maximum threshold
         */
```

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```
Gltl2mnths <= Gltl2mxths;
```

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# Gltl2mxths

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltl2mxths | FR | DMuchar |

### 1.1 Fullname:

Maximum threshold value of DSL layer 2 errors

### 1.2 Description:

This office parameter is used to indicate the maximum (remove) threshold for service-affecting Level 2 errors on TCPIP B1 channel DSLs for the entire switch. When the minimum (troubled) threshold (Gltl2mnths) is reached, an entry for this DSL protocol channel (DSL group and member) will be placed in a table that tracks DSLs experiencing errors and the entry is timestamped. When the maximum threshold is reached, the current time and the timestamp of the table entry are compared. If the time difference is less than a pre- defined time, the DSL is taken out-of-service. If the time difference is greater than the pre-defined time, then the error count is decremented by a pre-defined amount.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global parameter is recent changeable. ODA will set initial value to default value.

***Retrofit Rules:*** Value preserved during retrofit.

***Default Rules:***

```
default = 10;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
        /* RULES about Gltl2mxths: */

        /* the DSL layer 2 maximum threshold has a range of 0 - 255 */
        Gltl2mxths is_in { 0 thru 255 };

        /* the DSL layer maximum threshold must be greater than
         * or equal to the DSL layer 2 minimum threshold
         */
```

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```
Gltl2mxths >= Gltl2mnths;
```

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# Gltl3mnths

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltl3mnths | FR | DMuchar |

### 1.1 Fullname:

Minimum threshold value of DSL layer 3 errors

### 1.2 Description:

This office parameter is used to indicate the minimum (troubled) threshold for service-affecting Level 3 errors on TCPIP B1 channel DSLs for the entire switch. When this threshold is reached, an entry for this DSL protocol channel (DSL group and member) will be placed in a table that tracks DSLs experiencing errors and the entry is timestamped. If the maximum (remove) threshold (Gltl3mxths) is reached, the current time and the timestamp of the table entry are compared. If the time difference is less than a pre-defined time, the DSL is taken out-of-service. If the time difference is greater than the pre-defined time, then the error count is decremented by a pre-defined amount.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 5

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global parameter is recent changeable. ODA will set initial value to default value.

***Retrofit Rules:*** Value preserved during retrofit.

***Default Rules:***

```
default = 5;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
        /* RULES about Gltl3mnths: */

        /* the DSL layer 3 minimum threshold has a range of 0 - 255 */
        Gltl3mnths is_in { 0 thru 255 };

        /* the DSL layer 3 minimum threshold must be less than
         * or equal to the DSL layer 3 maximum threshold
         */
```

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```
Gltl3mnths <= Gltl3mxths;
```

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# Gltl3mxths

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltl3mxths | FR | DMuchar |

### 1.1 Fullname:

Maximum threshold value of DSL layer 3 errors

### 1.2 Description:

This office parameter is used to indicate the maximum (remove) threshold for service-affecting Level 3 errors on TCPIP B1 channels DSLs for the entire switch. When the minimum (troubled) threshold (Gltl3mnths) is reached, an entry for this DSL protocol channel (DSL group and member) will be placed in a table that tracks DSLs experiencing errors and the entry is timestamped. When the maximum threshold is reached, the current time and the timestamp of the table entry are compared. If the time difference is less than a pre- defined time, the DSL is taken out-of-service. If the time difference is greater than the pre-defined time, then the error count is decremented by a pre-defined amount.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This global parameter is recent changeable. ODA will set initial value to default value.

***Retrofit Rules:*** Value preserved during retrofit.

***Default Rules:***

```
default = 10;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
        /* RULES about Gltl3mxths: */

        /* the DSL layer 3 maximum threshold has a range of 0 - 255 */
        Gltl3mxths is_in { 0 thru 255 };

        /* the DSL layer 3 maximum threshold must be greater than
         * or equal the DSL layer 3 minimum threshold
         */
```

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```
Gltl3mxths >= Gltl3mnths;
```

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# Gltloop

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltloop | FP | DMushort |

### 1.1 Gltloop

Global Office Parameter Gltloop

### 1.2 Description

This parameter is initialized by the RLTALOOPDB initialization function to equal the actual number of tuples in RLTALOOPDB. If the RLLOOPDB initialization succeeds then Gltloop will be set to the lesser of the values (Glnbst2 + Glnint + 3*Glnvdt) and DBQNTALOOP. In case of initialization failure, Gltloop will reflect the actual number of RLTALOOPDB tuples successfully initialized.

This parameter does not appear on any ODA form and ODA is not required to initialize its value. This parameter does not appear on any recent change/verivy (RC/V) view.

The RLPOS_LPRT trigger function will increase the value of Gltloop as additional RLTALOOPDB tuples are inserted in response to increases to Glnbst2, Glnint, or Glnvdt, resulting from RC to view 21.32 (RC_PPMAP). The RLPOS_LPRT trigger function will insert RLTALOOPDB tuples and correspondingly increase Gltloop such that Gltloop is not less than the lesser of the values (Glnbst2 + Glnint + 3*Glnvdt) and DBQNTALOOP.

Range: Is specified in (decimal)

***Type :*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBNO

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
```

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```
begin
/* RULE about Gltloop.values: */
Gltloop is_in {0 thru 200};
end
```

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# Gltm_resId

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltm_resId | FR | DMbool |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global relation contains a settable office option to control AMA recording via RC/V view 8.1. When it is set to DBYES, additional EBAF modules will be appended to the AMA record for resold line termination. Its default value is DBNO. This global will replace the fourth bit of Glsf8dummy used in 5e12SU and 5e13SU.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:***

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***

```
/* Check for purchase of the resale/unbundling feature.
 * if (SFID321 == DBNO) then
 *     Gltm_resld == DBNO; */
```

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
        /* no check */ ;
```

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# Gltm_rt101

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltm_rt101 | LR | DMtm_rt101 |

### 1.1 Gltm_rt101

Global Office Parameter Gltm_rt101

### 1.2 Description

Priority routing order for 101 test line calls. This relation is populated based on the RLTLWSR and Gltm_rt101 relations. For each TLWS defined in the RLTLWSR, this relation should also have an entry. Also if the CTTU is defined in the Gltm_rt101, the last tuple in this relations should be set to:

```
number = 9     devid = 0     type_tws =TM_CTTU
```

Priority routing order for 101 test line calls terminating to Trunk/Line Work Station (TLWS or CTTU).

This parameter is used when the `general` 101 Test Line has been dialed. The call will terminate at different locations depending how this parameter has been populated. The choices are LOCAL, REMOTE, CTTU, NULL:

LOCAL — The T&M phone is served by the 5ESS(R)-2000 switch office (that is, has a line appearance on the switch). The DN of the TLWS T&M phone can either be an individual line or a member of a multi-line hunt group.

REMOTE — The T&M phone is not directly connected via a line to the 5ESS(R)-2000 switch (that is, it has a trunk appearance).

***NOTE:*** The TLWS may be physically located in the office, but the T&M phone for the TLWS has a trunk appearance. In most cases a REMOTE T&M phone will also have a Remoted TLWS (such at, the TLWS at the SCC or a TLWS at an RSM).

CTTU — The T&M phone is associated with CTTU testing. Incoming calls would be sent to CTTU for testing instead of the TLWS if the global office parameter has the CTTU in the priority ranking.

NULL — Used if not LOCAL, REMOTE or CTTU.

Rank the order as 1st, 2nd, and 3rd. NULL value is used as a terminator if all 3 choices are not in the priority list (such as, LOCAL, REMOTE, NULL). When an incoming 101 test call is received, the first route type is retrieved from Gltm_rt101. The position busy array is searched for all TLWS's of the same type. The position busy array is populated from the rlTM_ws101 relation which in turn was populated from rlTLWSR (except for CTTU). The tm_type field of rlTM_WS101 determines whether a TLWS is a local or remote TLWS. If the global parameter Glcttu is set to DBYES, then an additional tuple will be added to the position busy table with a type of cttu.

If there are no TLWS' in the position busy table of the correct type, or all TLWS of the correct type are marked busy (OP:PB), the next type in the routing order is checked. Finally, when a non-busy TLWS match is made, the incoming call is terminated to the DN associated with that TLWS. NULL implies that LOCAL, REMOTE, and/or CTTU are not valid for this rank order. The call will be sent to busy tone when this value is found in the priority ranking. This is the case when no TLWS wants to terminate 101 test calls.

See I/O Manual for details on Position Busy for 101, SET:PB, CLR:PB, and OP:PB.

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```
Initial Population values
*************************
LOCAL, NULL, NULL
```

***Type:*** DBRT101_PAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** {TM_LOCAL,TM_NULL,TM_NULL}

***CMP Initial Value:*** {TM_LOCAL,TM_NULL,TM_NULL}

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gltm_rt101.values: */
        /* no check */ ;
```

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# Gltm_unbld

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltm_unbld | FR | DMbool |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global relation contains a settable office option to control AMA recording via RC/V view 8.1. When it is set to DBYES, additional EBAF modules will be appended to the AMA record for the unbundled line termination. Its default value is DBNO. This global will replace the third bit of Glsf8dummy used in 5e12SU and 5e13SU.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:***

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:***

```
/* Check for purchase of the resale/unbundling feature.
 * if (SFID321 == DBNO) then
 *     Gltm_unbld == DBNO; */
```

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
        /* no check */ ;
```

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# Gltmda_inx

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltmda_inx | FR | DMtmda_inx |

### 1.1 Gltmda_inx

Global Office Parameter Gltmda_inx

### 1.2 Description

Contains digit analysis screening index and digit tree entry for ROTL, CTTU, IMLT2 and remote TLWS connection appraisal calls.

screen_x — Screening index used by ROTL, CTTU, IMLT2, and remote TLWS connection appraisal calls. Should be chosen to be identical to that used for standard POTS routing from a line (in RLFC_LINE).

digtree — Digit analysis digit tree starting point. Should be chosen to be identical to that used for standard POTS routing from a line.

***Type:*** DBINX_PAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** {1,1}

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gltmda_inx.values: */
        /* no check */ ;
```

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# Gltmr1_omfc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltmr1_omfc | FP | DMmillis |

### 1.1 Gltmr1_omfc

Global Office Parameter Gltmr1_omfc

### 1.2 Description

Specifies the length of the first outgoing MFC signaling timing interval. It should be populated to a value in the range from 12000 to 18000 for SA and CO, and to a value in the range from 14000 to 24000 for NL. Also see the related parameters Glomfc_tmr and Gltmr2_omfc. The range is 12000 - 24000.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 15000

***AM Initial Value:*** 15000

***CMP Initial Value:*** 15000

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gltmr1_omfc.values: */
        /* no check */ ;
```

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# Gltmr2_omfc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltmr2_omfc | FP | DMmillis |

### 1.1 Gltmr2_omfc

Global Office Parameter Gltmr2_omfc

### 1.2 Description

Specifies the length of the second outgoing MFC signaling timing interval. It should be populated to a value in the range from 24000 to 36000 for SA and CO and to a value in the range from 14000 to 24000 for NL. Also see the related parameters Glomfc_tmr and Gltmr1_omfc. The range is 14000 - 36000.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 24000

***AM Initial Value:*** 24000

***CMP Initial Value:*** 24000

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* Populate on all SMs */
for modatt in RLmodattpcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gltmr2_omfc.values: */
        /* no check */ ;
```

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# Gltmr34

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltmr34 | LRFR | DMuchar |

### 1.1 Gltmr34

Global Office Parameter Gltmr34

### 1.2 Description

Gltmr34 is the circuit query timer value (in seconds) used when waiting for a reply to a Circuit Query Message (CQM).

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 10

***CMP Initial Value:*** 10

***RC/ODA Rules:*** This parameter is recent changeable via the CCS Office Parameter view.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 10;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
Gltmr34 is_in {10 thru 15};
```

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# Gltms_evenlnk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltms_evenlnk | FP | DMuns9 |

### 1.1 Gltms_evenlnk

Global Office Parameter Gltms_evenlnk

### 1.2 Description

This parameter specifies the even NCT link between LSM/HSM/ORM/TRM described by this module and the TMS. If the SM having this parameter populated is an RSM, this parameter will contain the even NCT link number of its HSM.

See the lnknum attribute of the RLslnktms for a description of the rangeof this parameter.

This parameter must be populated with the number that uniquely identifies the even TMS NCT link that is connected to this SM.

The value populated in this parameter should be the same as the value found in the tmsevennct attribute in the relation RLmodatt.

***NOTE:*** This will result in the parameter having a 0 value in the skeleton data bases used for module growth. Upon growth of a module, the ODDCREAT process will have to populate this parameter. The ODD- CREATE process will read the RLmodatt tuple from the AM for the growth module. ODDCREAT will set Gltms_evenlnk parameter equal to the value in the tmsevennct attribute found in the modatt tuple for the growth module.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

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***Checks:***

```
/* RULE about Gltms_evenlnk.values: */
        /* no check */ ;
```

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# Gltms_oddlnk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltms_oddlnk | FP | DMuns9 |

### 1.1 Gltms_oddlnk

Global Office Parameter Gltms_oddlnk

### 1.2 Description

This parameter specifies the odd NCT link between LSM/HSM/ORM/TRM described by this module and the TMS. If the SM having this parameter populated is an RSM, this parameter will contain the odd NCT link number of its HSM.

See the lnknum attribute of the RLslnktms for a description of the range of this parameter.

This parameter must be populated with the number that uniquely identifies the odd TMS NCT link that is connected to this SM.

The value populated in this parameter should be the same as the value found in the tmsoddnct attribute in the relation RLmodatt.

***NOTE:*** The default value for this parameter will be 0. This will result in the parameter having a 0 value in the skeleton data bases used for module growth. Upon growth of a module, the ODDCREAT process will have to populate this parameter. The ODD- CREATE process will read the RLmodatt tuple from the AM for the growth module. ODDCREAT will set Gltms_oddlnk parameter equal to the value in the tmsoddnct attribute found in the modatt tuple for the growth module.

recent change (RC) default: N/A

ODA default: ODA should not default this parameter.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

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***Distribution Rules:***

```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gltms_oddlnk.values: */
        /* no check */ ;
```

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# Gltmttopts

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltmttopts | LP | DMlong |

### 1.1 Gltmttopts

Terminal Maintenance Trunk Testing Options

### 1.2 Description

This global parameter will be used to turn on and off portions of the Automatic Trunk test Scheduler. Each of the thirty-two bits of this parameter will correspond to a given portion of the feature. A '1' indicates that the sub-feature is turned on, while a '0' indicates that the sub-feature is turned off. The individual bits will take on the following meanings:

```
(The bits are numbered 31 30 29 ... 9 8 7 6 5 4 3 2 1 0)
bit 0 - Not used in US (Reserved for Spain, Int'l)
bit 1 - Responder busy actions (immediate retry and 10-in-15 threshold).
bit 2 - Maximum call attempts stop mechanism.
bit 3 - Maximum call errors stop mechanism.
bit 4 - Cyclic restart.
bit 5 - Put unavailable trunks on retry list.
bit 6 - On if ATSPRM view maps to RLatsopts relation.  This bit should
        not be changed, even if features are turned off for testing.
bit 7 - Maximum answer time out stop mechanism.
bit 8 - DUMP-ATPRM command to dump data associated with ATSPRM screen
bit 9 - Automatic end-of-session real-time report.
bit 10 - Print additional summary counters.
bit 11 - Not used in US (Reserved for Spain, Int'l)
bit 12 - Not used in US (Reserved for Spain, Int'l)
bit 13 - Not used in US (Reserved for Spain, Int'l)
bit 14 - Not used in US (Reserved for Spain, Int'l)
bit 15 - Not used in US (Reserved for Spain, Int'l)
bit 16 - If '1', use local time; if '0', use UTC.  Default = '1'.
bit 17 - If '1', put busy trunks on the retry list. Default = '1'.
bit 18 - Unused.
bit 19 - Unused.
bit 20 - Unused.
bit 21 - Unused.
bit 22 - Unused.
bit 23 - Unused.
bit 24 - Unused.
bit 25 - Unused.
bit 26 - Unused.
bit 27 - Unused.
bit 28 - Unused.
bit 29 - Unused.
bit 30 - Unused.
bit 31 - Unused.
```

***Type:*** DBLONGPAR

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***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** ---

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Although bits 0 through 17 have been identified to represent potential functionality for ATTS, only bits 16 and 17 are used in the US.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 196608;
```

***Distribution Rules:***
```
/* standard */ ;
```

***Checks:***
```
/* RULE about Gltmttopts.values: */
        /* no check */ ;
```

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# Gltn_ann_treat

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltn_ann_treat | FP | DMbool |

### 1.1 Gltn_ann_treat

Global Office Parameter Gltn_ann_treat

### 1.2 Description

This parameter is used to switch on the 'Announcement and Tone Timeout' treatment feature of the Export Call Handling capability(j125). This feature times tones and announcements and puts ports high and wet at expiration of the timing.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gltn_ann_treat.values: */
        /* no check */ ;
```

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# Gltn_info

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltn_info | FP | DMushort |

### 1.1 Fullname:

Termination Notification Information Data Blocks

### 1.2 Description:

The Gltn_info global parameter contains an SM's current rlTN_INFO tuple count. It is verified during full initializations and updated as tuples are inserted via trigger functions.

***NOTE:*** The algorithm in this file must be the same as the algorithm in fc/FCtrigint/MCdbqtn_inf.c which is the init code for Gltn_info. So if the algorithm in this file changes verify that it is consistent with the init code algorithm.

ODA has agreed to make the calculation changes in 5e10 even though the changes were made to this file in 5e11.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as ASP features are assigned to or unassigned from lines. It will never be decreased.

***Retrofit-ODA Rules:*** Not applicable

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
```

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```
"env.R
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gltn_info.values: */

/*      Gltn_info is_in {0 thru (DBQNTN_INF - DBSFTN_INF)};     */
        Gltn_info is_in {0 thru (17111 - 0)};


/* RULE about Gltn_info: */

if (runucv) then
begin
if (Glpvn_ofc == DBPVN_SSP || Glssp == DBYES) then
begin
        /*
         * Compute the number of tuples needed for Provisioned
         * Busy and No Answer Terminating trigger Calls.
         * (Refer to fc/FCtrigint/MCdbqtninf.c/MCdbqtninf() for
         * the details).
         */
         let tblna_trig  = (Gltbllines > 0 || Gltnalines > 0) ?
                           ( (7 * Gltbllines + 473) / 480 ) +
                           ( (7 * Gltnalines + 113) / 120 )  : 0;


        /* Since prl does not support floating point math, and to
         * prevent division by 0, the following formula has been
         * simplified to the result used in the following
         * calculation.
         *
         * let crpl = 2 + (1/2);
         * let f_cdpquery = 1/2;
         * let f_dntquery = 5/100;
         * let f_fcdquery = 1/10;
         * let hold_time = 210/3600;
         *
         * let o_aspbase = crpl * (Glalinecnt + Glshanal +
         * Glmaxterm) * (((Glohlines + (Glcdplines * f_cdpquery) +
         * (Glfcdlines * f_fcdquery)) / (Glalinecnt +
         * Glshanal + Glmaxterm)) + f_dntquery) * hold_time;
         *
         * let f_tatquery = 1 + (5/100);
         * let t_aspbase = (crpl * Gltatlines * f_tatquery) *
         * hold_time;
         *
         * let crpt = 8;
         * let f_sspquery = 5/100;
         * let ssp_base= (crpl * (Glalinecnt + Glshanal +
         *  Glmaxterm) * f_sspquery * hold_time) + (crpt *
         *  Gltrkcnt * f_sspquery * hold_time);
```

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```
 *
 * let f_cdptrk = 5/10;
 * let f_fcdtrk = 1/10;
 *
 * let trk_base = crpt * Gltrkcnt *
 * (((Glohtrks + (Glcdptrks * f_cdptrk) +
 *  (Glfcdtrks * f_fcdtrk)))/Gltrkcnt + f_dntquery) *
 *  hold_time;
 *
 * let mu = o_aspbase + t_aspbase + ssp_base + trk_base;
 */


/*
 * If the local number portability (LNP) secured feature
 * SFID147 has been unlocked and ASP queries are allowed
 * for LNP, then the number of ASP base dynamic relations
 * should be increased.
 *
 * Because the SFID lock cannot be checked in the PRL
 * code, an internal global parameter is used to indicate
 * that the LNP feature is active and ASP LNP triggers
 * have been populated.
 *
 * let f_lnpquery = 4/10;
 *      The fractional proportion of calls using an ASP
 *      LNP query has been estimated to be an average
 *      of 40%.
 *
 * let lnp_base = ((Gllnp == DBYES) ? ZZZ : 0);
 *      where ZZZ is defined similarly to ssp_base as
 *      follows:
 *
 * ZZZ = ( (call rate per lines * number of lines) +
 *       (call rate per trunks * number of trunks) ) *
 *       holding time * proportion of calls using LNP
 *       query
 *
 * In reduced form this is
 *      ( ( ( ((Glalinecnt + Glshanal + Glmaxterm) * 5) +
 *      (Gltrkcnt * 16) ) * 7) /600)
 *
 * Then change mu to be mu + lnp_base.
 */

let lnp_base = ((Gllnp == DBYES) ?
        ( ( ( ((Glalinecnt + Glshanal + Glmaxterm) * 5) +
        (Gltrkcnt * 16) ) * 7) /600) : 0);

/*
 * Compute the number of tuples needed for Busy Line No
 * Answer Originating trigger calls using both the office
 * wide trigger and those provisioned on lines.
 * The penetration of BLNA Originating triggers is 40%
```

```
 * which is the weighted average of busy or unanswered
 * calls.
 *
 * Because the SFID lock cannot be checked in the PRL
 * code, the global parameters Glorgbltrg and Glorgnatrg,
 * which contain the trigger numbers, are used to indicate
 * that BLNA office originating trigger feature is active.
 * The global parameter Globlnalin stores the count of
 * lines which have either the busy line or no answer
 * trigger assigned and active on lines.
 * The holding time is 210/3600 seconds, which is the
 * weighted average of busy, no answer and answer.
 *
 * let ofcblnatrig= ((Glorgbltrg > 0 ||
 *    Glorgnatrg  > 0 ) ? ZZZ : 0);
 *      where ZZZ is defined similarly to ssp_base as
 *      follows:
 *
 * ZZZ = call rate per lines * number of lines *
 *       holding time * proportion of calls using BLNA
 *       originating or busy triggers
 *
 * let ofcblnatrig =(crpl * (Glalinecnt + Glshanal +  *
 *               Glmaxterm) f_otrig * otrig_hold);
 *
 * let oblnatrig =(crpl * Globlnalin) *
 *               f_otrig * otrig_hold);
 *
 *
 * f_otrig = 4/10;
 * otrig_hold = 210/3600 sec;
 * In reduced form this is
 * ( 7 * (Glalinecnt + Glshanal + Glmaxterm))/120
 *
 * Then let mu = mu + blnatrig
 */

/* Compute the office wide BLNA trigger */
let ofcblnatrig =(Glorgbltrg > 0 || Glorgnatrg > 0 ) ?
        ( ( 7 * (Glalinecnt + Glshanal + Glmaxterm) +
                                      119 )/120 ) : 0;

/* Compute the provisioned  BLNA trigger */
let oblnatrig =( Globlnalin > 0 ) ? ( ( ( 7 * Globlnalin )
                                    + 119 )/120 ) : 0;

/* Combine all BLNA trigger values */
let blnatrig = ofcblnatrig + oblnatrig;

/*
 * If any of the features which allow trunk toll triggers
 * are unlocked, then the number of ASP base dynamic
 * relations should be increased.
 *
```

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```
         * Because the SFID locks cannot be checked in PRL code,
         * an internal global parameter (Gltolltrig) is used to
         * indicate that any of the toll features is active and
         * that at least one one of the trigger indicators has
         * been provisioned.
         *
         * let tolltrig = (( Gltolltrig == DBYES) ? ZZZ:0);
         * where ZZZ is defined similarly to asp_base as follows:
         *
         * ZZZ = call rate per trunks * number of trunks *
         *       holding time * proportion of calls using toll
         *       triggers
         *
         *
         * tolltrig =(crpt * Gltrkcnt * otrig_hold * f_tolltrig)
         *
         * where:
         *      crpt = 8
         *      f_tolltrig = 1/10
         *      otrig_hold = 210/3600
         * In reduced form this is
         * ( (8 * Gltrkcnt ) * 7 ) + 1144 ) / 1200
         *
         * Then let mu = mu + tolltrig
         */

        let tolltrig = ( Gltolltrig == DBYES ) ?
              ( ( ( (8 * Gltrkcnt ) * 7 ) + 1144 ) / 1200 ) : 0;



        let mu = ( (((Glohlines*20) + (Glcdplines * 10) +
                (Glfcdlines * 2 ) +
                ((Glalinecnt + Glshanal + Glmaxterm) *2)) *7) /960 ) +
          ((((2 * Gltrkcnt) + (Glohtrks * 20) + (Glcdptrks * 10) +
                (Glfcdtrks * 2)) *49) /2100)
          + (( 49 * Gltatlines)/320) + lnp_base + blnatrig +
                tolltrig + tblna_trig;

        /* The number of RLtn_info dynamic tuples is 10% of the
         * calculated value of mu
         */
        let tn_mu = (mu * 10)/100;

        let sigma = sqrt (tn_mu);

        let tninfo = tn_mu + (5 * sigma);

/*      if (tninfo + Glitn_info <= (DBQNTN_INF - DBSFTN_INF)) then      */
        if (tninfo + Glitn_info <= (17111 - 0)) then
                Gltn_info >= tninfo + Glitn_info;
        else
/*              Gltn_info == DBQNTN_INF - DBSFTN_INF;   */
                Gltn_info == 17111 - 0;
```

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```
end
else
begin
        Gltn_info == 0;
end
end
end
```

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# Gltnalines

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltnalines | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter count of terminating no answer triggers assigned to lines

### 1.2 Description:

This global parameter records the number of subscribed Terminating No Answer triggers provisioned on the lines on an SM. It is calculated during retrofit and incremented/decremented when T_No_Answer triggers are added or deleted. Its value is maintained over all initializations and updated via RC as Terminating No Answer triggers are inserted or deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** The value of this parameter is established by ODA and will be updated by RC as terminating no answer triggers are inserted or deleted.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit. The formula as described in the population rules will be incorporated into Glparams.V.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gltnalines.values: */

Gltnalines is_in {0 thru 65000};
```

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```
/* RULE about Gltnalines: */

                Gltnalines == count { asp_ltm in RLasp_ltm
                      where (asp_ltm.t_natrig_act == DBYES) };


end
```

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# Gltnatimer

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltnatimer | FR | DMshort |

### 1.1 Fullname:

Terminating No Answer Timer

### 1.2 Description:

This is an Office parameter, the TNoAnswerTimer. This parameter is Recent Changeable and has a range from 1 to 120 seconds in 1 second increments, with default value of 18.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 18

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Special Feature number 126 (SFID 126) should be unlocked before SFID 507 is unlocked. Gltnatimer global parameter can be assigned values 1 thru 120 when SFID 507 is unlocked otherwise has the deafult value (18 ).

***Retrofit Rules:*** During retrofit the EVL code will initialize the global parameter to 18.

***Default Rules:***

```
default = 18;
```

***Distribution Rules:***

```
        /* FR */
```

***Checks:***

```
/* RULE about Gltnatimer.values: */

        Gltnatimer is_in {1 thru 120};
```

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# Gltnic

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltnic | FP | DMpsdnic |

### 1.1 Gltnic

Global Office Parameter Gltnic

### 1.2 Description

This parameter specifies the Transit Network Identification Code (TNIC) value to be used on X.75 trunks when the 5ESS(R)-2000 switch acts as a transit network. For any SMs with the GLISDNBASE software loadable package, this parameter must be in the range 0x0001 through 0x9999. For any SMs without the GLISDNBASE software loadable package, this parameter must be 0.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
     /* RULE about Gltnic.values: */
        Gltnic is_in {0x0000 thru 0x9999};

     /* RULE about Gltnic: */
     if ( (count ( {
        lpconf in RLlpconfig
        where ( lpconf.smconfig == Glconfigname &&
```

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```
                lpconf.package == GLISDNBASE ) } ) == 0 ) ) then
begin
        Gltnic == 0;
end

else

begin
ORgl_1:d         Gltnic != 0;
end
end
```

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# Gltodcrc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltodcrc | FP | DMushort |

### 1.1 Gltodcrc

Global Office Parameter Gltodcrc

### 1.2 Description

This parameter dictates how many Time of Day CORCs are allowed to be logged in the CORC log buffer before a flush is started. This parameter will be used by both an SM and an SM-2000.

For an SM, the default for Gltodcrc is 1. For an SM-2000 SM, the default for Gltodcrc is 5.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** A RC view (8.27) and ODA form (5510) per-SM field is required.

***Retrofit Rules:*** The value should remain intact over a retrofit.

***Default Rules:***
```
default = 1;
```

***Distribution Rules:***
```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Gltodcrc: */
for pcr in sm_all
begin
        Gltodcrc on pcr is_in {1 thru 20};
end
```

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# Gltofflen

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltofflen | FR | DMushort |

### 1.1 Fullname:

TDMA DTMF Tone Off Duration

### 1.2 Description:

This parameter is used by the CDMA DTMF Tone Generation Programmability application on the *5ESS*®-2000 switch. This parameter specifies the DTMF Tone Off Duration for TDMA calls.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** RC and ODA will not allow the end-user to provision this parameter. RC and ODA will only support the default value, 0, for this parameter at this time. RC View 8.1, Office Parameters, will support this parameter.

***Retrofit Rules:*** The value of this parameter will be maintained in the next generic.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gltofflen.values: */

        Gltofflen == 0;
```

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# Gltogeneric

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltogeneric | LR | DMtogen |

### 1.1 Gltogeneric

Global Office Parameter Gltogeneric

### 1.2 Description

This parameter indicates the generic which RC & CORC will be evolved to. The range is enum type: { GEN_NONE, GEN_5E31, GEN_5E41, GEN_5E42, GEN_5E5 } ODA should initialize to the value of GEN_NONE.

***Type :*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** 0

***AM Initial Value:*** GEN_NONE

***CMP Initial Value:*** GEN_NONE

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gltogeneric.values: */
Gltogeneric is_in {GEN_NONE, GEN_5E31, GEN_5E41, GEN_5E42, GEN_5E5};
```

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# Gltolabn

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltolabn | FR | DMbool |

### 1.1 Gltolabn

Global Office Parameter Gltolabn

### 1.2 Description

Determines whether or not the office records AMA data for billable toll calls; initially this should be enabled.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gltolabn.values: */
Gltolabn is_in {DBYES, DBNO};
```

6.0

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# Gltolltrig

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltolltrig | FR | DMbool |

### 1.1 Gltolltrig

ASP Toll Trigger Provisioning Indicator for Trunks

### 1.2 Description

This parameter is being used to indicate whether or not any of the specified ASP toll triggers have been provisioned on any trunk. Secured features represented are:

```
Carrier Triggers (SFID 243)
Trunk Triggers for Toll (SFID 159)
VPN - LDP (SFID 242)
```

***Type :*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***TRIGGER:*** FCtriaspbase

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** This parameter is supported by RC and ODA. The value of this parameter is populated by ODA and is updated from RC View 5.1

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /*standard*/
```

***Checks:***
```
/*
 * Verify that this parameter is set to DBYES if any trunk in the
 * office has one or more of the three ASP toll triggers assigned.
 */
```

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```
if ( count( { fc_trunk in RLfc_trunk on sm_all
         where(  fc_trunk.asp_carrtrig == DBYES ||
                 fc_trunk.asptoll      == DBYES ||
                 fc_trunk.vpn_access   == DBYES ) }  ) > 0 ) then
begin
        Gltolltrig == DBYES;
end
else
begin
        Gltolltrig == DBNO;
end
```

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# Gltolsupv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltolsupv | FR | DMbool |

### 1.1 Gltolsupv

Global Office Parameter Gltolsupv

### 1.2 Description

Record SSU on toll calls. When set to DBYES, the SSU number will be included in all AMA records for toll calls.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gltolsupv.values: */
        /* no check */ ;
```

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# Gltonlen

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltonlen | FR | DMushort |

### 1.1 Fullname:

TDMA DTMF Tone On Duration

### 1.2 Description:

This parameter is used by the DTMF Tone Generation Programmability application on the *5ESS*®-2000 switch. This parameter specifies the DTMF Tone On Duration for TDMA calls.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** RC and ODA will not allow the end-user to provision this parameter. RC and ODA will only support the default value, 0, for this parameter at this time. RC View 8.1, Office Parameters, will support this parameter.

***Retrofit Rules:*** The value of this parameter will be maintained in the next generic.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gltonlen.values: */

        Gltonlen == 0;
```

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# Gltosys_cama

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltosys_cama | FR | DMbool |

### 1.1 Gltosys_cama

Global Office Parameter Gltosys_cama

### 1.2 Description

Specifies whether to send 1+ system CAMA ONI-ANIF traffic to a CAMA transfer office or to handle it with an OSPS operator. DBYES means send it to a CAMA transfer office. While OSPS-TA is being grown in an office this parameter should be set to DBYES so that CAMA ONI/ANIF traffic is sent to an external operator system as CAMA transfer traffic. After OSPS-TA is cutover it is assumed that the OSPS will handle the CAMA ONI/ANIF traffic internally, so this parameter should be set to DBNO. Therefore the ODA default is DBYES (pre-cut) and the RC/V default is DBNO (post-cut).

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBYES;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gltosys_cama.values: */
Gltosys_cama is_in {DBYES, DBNO};
```

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# Gltotph

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltotph | FP | DMcount |

### 1.1 Gltotph

Global Office Parameter Gltotph

### 1.2 Description

This parameter is used to keep count of all the PHs in an SM whether they are OPER, GROW, UNEQ. It will be initialized and updated by SMIM-MRA code. It will be read by recent change/verify (RC/V). ODA should initialize this parameter to 0 (zero).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gltotph.values: */
Gltotph is_in {0 thru 80};
end
```
6.0

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# Gltp1

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltp1 | FR | DMshort |

### 1.1 Gltp1

Tuning Parameter 1

### 1.2 Description

The global parameter is used as a tuning parameter for the Switched-Based TDMA Vocoder feature.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is supported by RC and ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gltp1.values: */
```
6.0

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# Gltp2

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltp2 | FR | DMshort |

### 1.1 Gltp2

Tuning Parameter 2

### 1.2 Description

The global parameter is used as a tuning parameter for the Switched-Based TDMA Vocoder feature.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is supported by RC and ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gltp2.values: */
```
6.0

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# Gltp3

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltp3 | FR | DMshort |

### 1.1 Gltp3

Tuning Parameter 3

### 1.2 Description

The global parameter is used as a tuning parameter for the Switched-Based TDMA Vocoder feature.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is supported by RC and ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gltp3.values: */
```
6.0

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# Gltp4

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltp4 | FR | DMshort |

### 1.1 Gltp4

Tuning Parameter 4

### 1.2 Description

The global parameter is used as a tuning parameter for the Switched-Based TDMA Vocoder feature.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is supported by RC and ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gltp4.values: */
```
6.0

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# Gltp5

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltp5 | FR | DMshort |

### 1.1 Gltp5

Tuning Parameter 5

### 1.2 Description

The global parameter is used as a tuning parameter for the Switched-Based TDMA Vocoder feature.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is supported by RC and ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gltp5.values: */
```
6.0

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# Gltp6

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltp6 | FR | DMshort |

### 1.1 Gltp6

Tuning Parameter 6

### 1.2 Description

The global parameter is used as a tuning parameter for the Switched-Based TDMA Vocoder feature.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is supported by RC and ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gltp6.values: */
Gltp6 is_in {0 thru 32767};
```
6.0

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# Gltp7

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltp7 | FR | DMshort |

### 1.1 Gltp7

Tuning Parameter 7

### 1.2 Description

The global parameter is used as a tuning parameter for the Switched-Based TDMA Vocoder feature.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is supported by RC and ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gltp7.values: */
```
6.0

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# Gltp8

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltp8 | FR | DMshort |

### 1.1 Gltp8

Tuning Parameter 8

### 1.2 Description

The global parameter is used as a tuning parameter for the Switched-Based TDMA Vocoder feature.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is supported by RC and ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gltp8.values: */
```
6.0

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# Gltp9

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltp9 | FR | DMshort |

### 1.1 Gltp9

Tuning Parameter 9

### 1.2 Description

The global parameter is used as a tuning parameter for the Switched-Based TDMA Vocoder feature.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is supported by RC and ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gltp9.values: */
```

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# Gltp10

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltp10 | FR | DMshort |

### 1.1 Gltp10

Tuning Parameter 10

### 1.2 Description

The global parameter is used as a tuning parameter for the Switched-Based TDMA Vocoder feature.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is supported by RC and ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gltp10.values: */
```
6.0

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# Gltp11

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltp11 | FR | DMshort |

### 1.1 Gltp11

Tuning Parameter 11

### 1.2 Description

The global parameter is used as a tuning parameter for the Switched-Based TDMA Vocoder feature.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is supported by RC and ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gltp11.values: */
```
6.0

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# Gltp12

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltp12 | FR | DMshort |

### 1.1 Gltp12

Tuning Parameter 12

### 1.2 Description

The global parameter is used as a tuning parameter for the Switched-Based TDMA Vocoder feature.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is supported by RC and ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gltp12.values: */
```
6.0

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# Gltp13

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltp13 | FR | DMshort |

### 1.1 Gltp13

Tuning Parameter 13

### 1.2 Description

The global parameter is used as a tuning parameter for the Switched-Based TDMA Vocoder feature.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is supported by RC and ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gltp13.values: */
```
6.0

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# Gltp14

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltp14 | FR | DMshort |

### 1.1 Gltp14

Tuning Parameter 14

### 1.2 Description

The global parameter is used as a tuning parameter for the Switched-Based TDMA Vocoder feature.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is supported by RC and ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gltp14.values: */
```
6.0

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# Gltp15

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltp15 | FR | DMshort |

### 1.1 Gltp15

Tuning Parameter 15

### 1.2 Description

The global parameter is used as a tuning parameter for the Switched-Based TDMA Vocoder feature.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is supported by RC and ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gltp15.values: */
```
6.0

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# Gltp16

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltp16 | FR | DMshort |

### 1.1 Gltp16

Tuning Parameter 16

### 1.2 Description

The global parameter is used as a tuning parameter for the Switched-Based TDMA Vocoder feature.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global parameter is supported by RC and ODA.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gltp16.values: */
```
6.0

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# Gltpcs_alt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltpcs_alt | FR | DMshort |

### 1.1 Gltpcs_alt

PCS Automatic Link Transfer Disconnect Timer

### 1.2 Description

This parameter defines the value, in milliseconds, of the timer. When the switch recognizes an ALT request, the old RPCU is sent a FACILITY message requesting permission to perform ALT bridging and the timer is started. The switch expects a FACILITY message indicating that ALT bridging has been completed before the timer expires. If the timer expires, the ALT has failed and the call cleared.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1000

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Valid values are 500 to 5000 in steps of 500 (on view/form 0.5 to 5 seconds in steps of 0.5 seconds). The default is 1000 (1 second).

***Retrofit Rules:*** initialize to default value when retrofitting to new generic

***Default Rules:***
```
default = 1000;
```

***Distribution Rules:***
```
/* SM Redundant */
```

***Checks:***
```
/* RULE about Gltpcs_alt.values: */
Gltpcs_alt is_in {500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000};
```

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# Gltphpbd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltphpbd | LPFP | DMblockid |

### 1.1 Gltphpbd

Global Office Parameter Gltphpbd

### 1.2 Description

This global office parameter will store the blockid of a head page which contains the blockids of PRAM or NRAM pages which contain tuple blocks used to support the DB tuple cache. It will be set by DB initialization and audited by the DB memory manager audit. ODA and DBGEN should NOT populate this parameter. The value is NOT preserved for retrofits.

***Type:*** DBLONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBNO

***Classification:*** EQUIPMENT

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gltphpbd.values: */
        /* no check */ ;
```

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# Gltpmajor

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltpmajor | LP | DMuchar |

### 1.1 Gltpmajor

Global Office Parameter Gltpmajor

### 1.2 Description

Gltpmajor defines the maximum number of test positions that can be seized when the AM is in major or critical overload. This should not exceed Gltpmax or Gltpminor.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 8

***AM Initial Value:*** 8

***CMP Initial Value:*** 8

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 8;
```

***Distribution Rules:***

```
/* standard - LP */
     ;
```

***Checks:***

```
/* RULE about Gltpmajor: */
Gltpmajor on am <= Gltpminor on am ;
Gltpmajor on am is_in {1 thru 32};
```

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# Gltpmax

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltpmax | LP | DMuchar |

### 1.1 Gltpmax

Global Office Parameter Gltpmax

### 1.2 Description

Gltpmax defines the maximum number of test positions that can be used in an office. This paramter must not exceed the internal limit of 32 defined in the TM subsystem.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 32

***AM Initial Value:*** 32

***CMP Initial Value:*** 32

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 32;
```

***Distribution Rules:***
```
/* standard - LP */
      ;
```

***Checks:***
```
/* RULE about Gltpmax: */
Gltpminor on am <= Gltpmax on am;
Gltpmajor on am <= Gltpmax on am;
Gltpmax on am is_in {1 thru 32};
```

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# Gltpminor

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltpminor | LP | DMuchar |

### 1.1 Gltpminor

Global Office Parameter Gltpminor

### 1.2 Description

Gltpminor defines the maximum number of test positions that can be seized when the AM is in minor overload. This should not exceed Gltpmax and should meet or exceed Gltpmajor.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 16

***AM Initial Value:*** 16

***CMP Initial Value:*** 16

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 16;
```

***Distribution Rules:***
```
/* standard - LP */
      ;
```

***Checks:***
```
/* RULE about Gltpminor: */
Gltpminor on am is_in {1 thru 32};
```

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# Gltportcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltportcnt | FP | DMulong |

### 1.1 Fullname:

Global parameter for Ported non-ISUP7 trunks.

### 1.2 Description:

Gltportcnt contains the number of RLfc_trunk tuples where RLfc_trunk.in_sigtype is not DBISUP7 which are ported by a Number Portability feature.

It will be updated by trigger functions as rlFC_TRUNK tuples are inserted, updated, or deleted.

This count does not include trunks ported via Terminal Groups.

***Type:*** DBULONGPAR

***ODBE Access:*** DBNOCHANGE

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is updated by trigger functions and is not supported by RC mapping code. These functions are triggered off of RLfc_trunk being updated, inserted, or deleted. The values of this parameter is established by ODA. ODA will set its value to the number of non-ISUP7 that are marked ported.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit (by ODA or EVL code).

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gltportcnt.values: */
```

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```
        if (Glconfigname is_in {CNFG000, CNFG001, CNFG002}) then
        begin
                Gltportcnt is_in {0 thru 480};
                /* AVSMDTRUNKS_ASM() */

        end
        else
        begin
                Gltportcnt is_in {0 thru 24192};
                /* AVSMDTRUNKS_ASM2K() */
        end

/* RULE about Gltportcnt: */

        /*
         * Count the number of trunks which do not use
         * incoming ISUP7 signaling and are ported.
         */
        Gltportcnt == count { fc_trunk in RLfc_trunk
                              where (fc_trunk.ported == DBYES &&
                                     fc_trunk.in_sigtype != DBISUP7) };

end
```

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# Gltqtim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltqtim | LR | DMshort |

### 1.1 Gltqtim

Global Office Parameter Gltqtim

### 1.2 Description

Gltqtim indicates, in seconds, the value used for the cyclic timer which determines the time between cycles of the CCS Trunk Query interoffice audit. This parameter is for Domestic offices only. This parameter is used only when the office contains CCS trunks as shown when one or more tuples of RLrt_trkg have in_sigtype or out_sigtype set to DBISUP7, DBTUP7 or DBCCIS6.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 60

***CMP Initial Value:*** 60

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** ODA should populate with default value for new office but preserve value from data base during retrofits and growths.

***Default Rules:***
```
default = 60;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gltqtim.values: */
Gltqtim is_in {20 thru 20000};
```

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# Gltrcreq_tim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltrcreq_tim | FP | DMsecond |

### 1.1 Gltrcreq_tim

Global Office Parameter Gltrcreq_tim

### 1.2 Description

This parameter specifies the maximum time between the moment the MCT subscriber goes on hook and the moment the subscriber goes off hook to dial a '3' to get an MCT output report (version II). This parameter can only be set if Glmct2 = DBYES, otherwise it should be set to zero. Used by Export.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 10

***CMP Initial Value:*** 10

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gltrcreq_tim.values: */
if (current_pcr is_in sm_all) then
begin
Gltrcreq_tim is_in {0 thru 20};
end
```

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# Gltrcsup_tim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltrcsup_tim | FP | DMsecond |

### 1.1 Gltrcsup_tim

Global Office Parameter Gltrcsup_tim

### 1.2 Description

This parameter specifies the maximum time between the moment that the A-party releases or ringing stops and the moment the MCT subscriber can start the MCT request by flashing (version III), going on (version II) or pressing the Register Recall button (version I).

Used by Export. Export.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** 20

***CMP Initial Value:*** 20

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gltrcsup_tim.values: */
if (current_pcr is_in sm_all) then
begin
      Gltrcsup_tim is_in {0 thru 30};
end
```

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# Gltrdtim

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltrdtim | FR | DMshort |

### 1.1 Gltrdtim

Global Office Parameter Gltrdtim

### 1.2 Description

Gltrdtim is the timer set when a CCS clearback is received while waiting for possible CCS reanswer (timed release disconnect). The range of values is 12 - 15 seconds. The value should be the same in every SM. For retrofits from 5e5 to 5e6, if the current time is between 4-11, set it to 12. Otherwise, preserve the existing value.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 12

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA should populate with default value for new offices.

***Retrofit Rules:*** ODA should preserve value from data base during retrofits and growths.

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Gltrdtim.values: */
Gltrdtim is_in {4 thru 15};
```

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# Gltreeablf

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltreeablf | FP | DMuns8 |

### 1.1 Gltreeablf

Global Office Parameter Gltreeablf

### 1.2 Description

This parameter is used to count how many RLTREE_BLF tuples are assigned in each SM.

For ODA, count how many RLTREE_BLF tuples per SM. If no tuples are found, set to default value of 0.

For RC and ODBE, if a RLTREE_BLF tuple is added to a SM, the Gltreeable in the SM will be incremented by one. Each time a RLTREE_BLF tuple is deleted, this Gltreeablf will be decremented by one.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Gltreeablf.values: */
if (current_pcr is_in sm_all) then
begin
Gltreeablf is_in {0 thru 255};
end
```

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# Gltrk_cnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltrk_cnt | FP | DMushort |

### 1.1 Fullname:

*Autoplex*® Trunk Count

### 1.2 Description:

This global parameter keeps count of the number of *Autoplex*® trunks that are assigned to the SM. This count is used in calculating the number of RLGPAXDB tuples that should be initialized for the SM.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter is not supported by RC.

***Retrofit Rules:*** This parameter is re-calculated over retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
/* RULE about Gltrk_cnt.values: */
if (current_pcr is_in sm_all) then
begin

                /* Gltrk_cnt is_in {0 thru $AVSMTRUNKS */
Gltrk_cnt is_in { 0 thru 24192 };

/*RULE about Gltrk_cnt */
/* runslow added due to linear search of FC_PORTTYP and excessive
```

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```
 * cpu usage */
if (runslow) then
begin
        let dcs_cnt = 0 + count { fc_porttyp in RLfc_porttyp
              where ( fc_porttyp.dcs_trk == DBYES ) };

        Gltrk_cnt == dcs_cnt;
end
end
```

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# Gltrkbill

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltrkbill | FR | DMbool |

### 1.1 Fullname:

AMA Trunk Module Office Option

### 1.2 Description:

This global parameter identifies whether trunk modules will be appended to AMA records for this office. This feature will not be allowed to be set to yes unless Special Feature ID (SFID) 278 has been purchased for the office. But this global can be set to NO if SFID278=YES.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** /* if ( SFID278 == DBNO ) then Gltrkbill == DBNO; */

***Retrofit Rules:*** /* This global will be populated from spare Glsf2dummy */

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* SM Redundant */
```

***Checks:***
```
        Gltrkbill is_in { DBNO, DBYES };
```

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# Gltrkcnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltrkcnt | FP | DMushort |

### 1.1 Gltrkcnt

Trunk Count Global Parameter

### 1.2 Description

Contains an SM's count of trunks. Its value is maintained over all initializations and updated as trunks are inserted or deleted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is supported by RC and ODA. Its value can increase and decrease.

retrofit-oda-rules: Not applicable.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
/* RULE about Gltrkcnt.values: */
if (current_pcr is_in sm_all) then
begin
        Gltrkcnt is_in {0 thru 24192};

/* RULE about GLtrkcnt: */
        Gltrkcnt == count {fc_trunk in RLfc_trunk};
end
```

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# Gltrnk_off

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltrnk_off | FP | DMbool |

### 1.1 Gltrnk_off

Trunk Offering Feature Active Indicator

### 1.2 Description

This parameter indicates if the Operator Break In or Trunk Offering feature is active. If one of these features must be active this parameter must be populated to DBYES, otherwise it must be populated to DBNO.

***Type :*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** recent change (RC) Impact: Gltrnk_off is a static parameter and is not recent changeable by the craft. Gltrnk_off is changeable by the ODBE Office Data Base Editor.

ODA should populate with the default values for new offices.

***Retrofit Rules:*** ODA should populate with the default values during retrofit and growth.

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
        /* no check */
```

6.0

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# Gltrssrv

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltrssrv | FR | DMulong |

### 1.1 Fullname:

Telephone Relay Service Parameter

### 1.2 Description:

This parameter is used for the Telephone Relay Service (TRS) feature.

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0x00666760

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** The Telephone Relay Service (TRS) Special Feature is assigned use of bit 0 to bit 23 in global parameter Gltrssrv. Bit 0 through bit 23 will be used to represent the TRS type and be divided into three fields of eight bits each:

Bits 0 to 7 is used for unrestricted TRS calls;
Bits 8 to 15 is used for restricted TRS calls;
Bits 16 to 23 is used for TRS hotel calls;

Each 8 bit field will be used to represent a two-digit BCD number, to be updated through recent change view 8.9. The values assigned by Bellcore are 60, 67, and 66, respectively, for the three fields above. ODA and RC must use these as the default values:

TRS UNRESTRICTED 60
TRS RESTRICTED 67
TRS HOTEL 66

Thus, the default value must be 0x00666760.

***Retrofit Rules:*** Bits 0-23 of Gloff4 in 5E9(1) must be copied to bits 0-23 of this global. All the other bits (24-31) are not used and should be defaulted to zeros.

***Default Rules:***

```
default = 0x00666760;
```

***Distribution Rules:*** None

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***Import:***

```
env.R
```

***Checks:***

```
/* RULE about Gltrssrv.values: */

/* Each four bits in the range 0 thru 23
 * must be less than 10 when considered as an integer.
 * The range for each of the three 8-bit fields described in
 * the rc-oda-rules section is from 10 to 99.  Thus, the low
 * order 4 bits in each 8-bit field has the range 0 to 9,
 * while the high order 4 bits in each 8-bit field has
 * the range 1 to 9.
 */
Gltrssrv{0:3} < 10;
if (runucv) then
Gltrssrv{4:7} is_in {1 thru 9};
if (runucv) then
Gltrssrv{8:11} < 10;
if (runucv) then
Gltrssrv{12:15} is_in {1 thru 9};
if (runucv) then
Gltrssrv{16:19} < 10;
if (runucv) then
Gltrssrv{20:23} is_in {1 thru 9};
```

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# Gltscreen

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltscreen | FR | DMshort |

### 1.1 Fullname:

Global Office Parameter Gltscreen

### 1.2 Description:

The global parameter, Gltscreen, is the timer value (in seconds) that a call is offered to a Call Screening subscriber after Call Screening notification is provided.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 20;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Gltscreen.values: */

Gltscreen is_in {6 thru 60};
```

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# Gltsiopt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltsiopt | FP | DMuns16 |

### 1.1 Gltsiopt

Global Office Parameter Gltsiopt

### 1.2 Description

Contains an image of the TSIU command register 3 (CMD3). This parameter should be initially set to 65535 (0xffff). Any changes to this default value will be performed by Peripheral Control software. The craft can update this value through ODBE, but this is discouraged. This value should remain intact during a Generic Retrofit.

For SM-2000s, this value must always be the default value (0xffff).

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 65535

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Gltsiopt.values: */
        /* no check */ ;
```

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# Gltsm_cnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltsm_cnt | FP | DMcount |

### 1.1 Gltsm_cnt

Telephone Status Monitor and Select (TSM) User Count

### 1.2 Description

This parameter contains a count of the number of TSM monitoring terminals on a SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This count must be incremented whenever an ISDN user on this SM assigns TSM (by adding their first monitored terminal on view 23.24). It must be decremented whenever a TSM monitoring terminal removes the last terminal from their monitored list (view 23.24).

***Retrofit-ODA Rules:*** Value should be calculated as in the following PRL check.

***Retrofit Rules:*** None

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        ;
/* FP - SM partitioned */
```

***Checks:***

```
/* RULE about Gltsm_cnt: */
if (current_pcr is_in sm_all) then
begin
        Gltsm_cnt == count {tsm_bmap in RLtsm_bmap};
end
```

6.0

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# Gltstnsc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltstnsc | FR | DMtnsc |

### 1.1 Gltstnsc

Global Office Parameter Gltstnsc

### 1.2 Description

Long Distance Platform Test Call Terminating Network Selection Code.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 1023

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** if SFID 217 (MINT-ALPHA) is turned on then Gltstnsc is_in {0 thru 999};

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default=1023; /* $TNSC_NULL */
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gltstnsc.values: */
        Gltstnsc is_in {0 thru 999, 1023}; /* $TNSC_NULL = 1023 */
        if (Gltstnsc != 1023) then
        begin
                /* tnsc must be known in RLldptnsc */
                find == 1 ldptnsc in RLldptnsc
                where (ldptnsc.tnsc == Gltstnsc);
```

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```
        end
end
```

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# Gltstrc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltstrc | FR | DMshort |

### 1.1 Gltstrc

Global Office Parameter Gltstrc

### 1.2 Description

Gltstrc specifies the maximum time the connection from the SSP to the IP will be maintained. At expiration of the timer the call is torn down. Gltstrc is specified in minutes. A value of 0 indicates no timing is to be done.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 6

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** SFID229 must be turned on before Gltstrc can be changed from the default.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 6;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gltstrc.values: */
Gltstrc is_in {0 thru 60};
```

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# Gltupequp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltupequp | FP | DMcount |

### 1.1 Fullname:

Global Office Parameter Gltupequp

### 1.2 Description:

This parameter indicates the number of TUP trunks. This parameter is used by CCS MTP level 3 for signaling network management. The trigger informs the STRM system process in the SM when the number of TUP trunks has changed.

The count will always be zero because there are no TUP trunks in NAR. Gltupequp is included as part of porting from International.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** CCtupequp_trig,

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** Gltupequp must be updated by RC when TUP signaling trunks are inserted or deleted from RLrt_trkg.

***Retrofit Rules:*** None.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
        /* FP */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/*
 * This rule is required to determine how many
 * TUP trunk members that this GSM is signaling for.
 * Gltupequp is set to the number of trunk
```

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```
 * members with TUP signaling.
 */

if (current_pcr is_in sm_all) then
begin
        Gltupequp == 0;
end
```

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# Gltxaru

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltxaru | FR | DMbool |

### 1.1 Gltxaru

Global Office Parameter Gltxaru

### 1.2 Description

This parameter is used in OSPS offices to indicate whether or not directory assistance (DA) announcements are provided by vendor supplied audio response units connected to incoming DA trunks. This arrangement is known as 'Trunk-Side' External ARU.

This parameter must be set to DBYES if DA announcements are provided by the arrangement described above. Otherwise the parameter should be set to DBNO. The parameter should also be set to DBNO in offices which are not OSPS offices and in OSPS offices which do not handle DA traffic.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Gltxaru.values: */
        /* no check */ ;
```

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# Gltxn_info

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gltxn_info | FP | DMushort |

### 1.1 Fullname:

Count Of rlTXN_INFO tuples.

### 1.2 Description:

This global parameter records the current count of rlTXN_INFO tuples on an SM. It is verified during full initializations and updated via trigger functions as tuples are inserted.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as TBLNA triggers are assigned or unassigned to lines. It will never be decreased.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
sqrt.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Gltxn_info.values */

/*      Gltxn_info is_in {0 thru (DBQNTXN_INFO - DBSFTXN_INFO)} */
        Gltxn_info is_in {0 thru (65000 - 0)};
```

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```
/* RULE about Gltxn_info */

if (Glpvn_ofc == DBPVN_SSP) then
begin

        /*
         * Compute the number of tuples needed for Provisioned
         * Busy and No Answer Terminating trigger Calls.
         * (Refer to fc/FCtrigint/MCdbqtxnif.c for details).
         */
        let tblnatrig = ( Gltbllines > 0 || Gltnalines > 0 ) ?
                        ((Gltbllines + 7) / 8 ) +
                        ((Gltnalines + 1) / 2 )   : 0;

        /* Compute the number of rlTXN_INFO tuples to allocate : */
        let mu = tblnatrig;
        let sigma = sqrt (mu);
        let txn_info = mu + (5 * sigma);

        /* if((txn_info + Glitxn_inf) <= (DBQNTXN_INFO -
         * DBSFTXN_INFO)) then */
        if ((txn_info + Glitxn_inf) <= (65000 - 0)) then
        begin
                Gltxn_info >= txn_info + Glitxn_inf;
        end
        else
        begin
        /*      Gltxn_info == (DBQNTXN_INFO - DBSFTXN_INFO) */
                Gltxn_info == (65000 - 0);
        end

        /*
         * Make sure there are minimum number of tuples in the
         * relation rlTXN_INFO
         */
        find == 1 modatt in RLmodatt
        where (modatt.module == current_pcr)
        when_found
        begin
                if (modatt.unittype is_in {SMSM2000, SMSM2005})
                then
                begin
                        Gltxn_info >= 1000;
                end
                else
                begin
                        Gltxn_info >= 200;
                end
        end
end
else
begin
        Gltxn_info == 0;
```

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```
end

end
```

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## 3.31 Glu

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# Glublrsnd

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glublrsnd | LRFR | DMshort |

### 1.1 Fullname

Global office parameter Glublrsnd.

### 1.2 Description

Glublrsnd is the time interval to wait before resending a CCS unblocking signal (TUP/ISUP protocols) when failing to receive the acknowledgement in response to the initial CCS unblocking signal sent.

This parameter is used in the AM only. ODA should populate with default value for new office but preserve value from data base during retrofits and growths. This parameter is used only when the office contains CCS7 trunks as shown when one or more tuples of RLrt_trkg have in_sigtype or out_sigtype set to DBISUP7 or DBTUP7. Glublrsnd is specified in seconds.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 10

***CMP Initial Value:*** 10

***RC/ODA Rules:*** Insure that the SM value is the same as the AM value.

***Retrofit Rules:*** The original value in the AM should be populated in the SMs also.

***Default Rules:***
```
default = 10;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glublrsnd.values: */

Glublrsnd is_in {4 thru 15};
```

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# Glunbressc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glunbressc | FR | DMushort |

### 1.1 Fullname:

Special Feature Global Parameter

### 1.2 Description:

This global parameter contains the settable office option to control which structure code (001 or 500) should be used for the forced AMA Record, when the resale/unbundling feature is available. Its default value is 500, this value can be set via RC/V view 8.1. This global will replace the 5th bit of Glsf8dummy used in 5e12SU and 5e13SU.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:***

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 500

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** /* Check for purchase of the resale/unbundling feature. * if ( SFID321 == DBNO ) then * Glunbressc == 500; */

***Retrofit Rules:*** This value should be preserved over a generic retrofit.

***Default Rules:***

```
default = 500;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
        Glunbressc is_in {001, 500};
```

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# Glundfann

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glundfann | FR | DMbool |

### 1.1 Fullname

Called number status undefined announcement activation.

### 1.2 Description

Called number status undefined announcement activation indicator for DIOR sequence call enhancements.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** When retrofitting from 5e9_1 or 5e9_2, this parameter must be set to the value in Gloff2{8}.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glundfann.values: */
/* no checks */
```

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# Gluninatt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gluninatt | FP | DMshort |

### 1.1 Fullname

Global Office Parameter Gluninatt.

### 1.2 Description

This parameter specifies the number of times SS7 Signaling Traffic and Route Management operational code will attempt to inhibit or uninhibit a link.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 2

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** None.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 2;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
if (current_pcr is_in {1 thru 192}) then
begin
        Gluninatt is_in {1 thru 6};
        if (Glglobalsm == 0) then
        begin
                Gluninatt == 2;
        end
end
```

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# Glunsize

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glunsize | LPFP | DMlong |

### 1.1 Fullname:

Global Office Parameter Glunsize

### 1.2 Description:

Giving a positive value to Glunsize overrides the default value of the size of the SM/CMP Unprotected ODD. When the default size of the Unprotected ODD is to be used, Glunsize must be zero. Leaving Glunsize at its default of zero tells DBGEN code to read the Critical Information file to get the default size of the SM Unprotected ODD. For the CMP case, leaving Glunsize at its default value of zero tells DBGEN code to read the MTCMP.out (empty ODD) file to get the defauot size of the CMP Unprotected ODD.

The Glunsize value for CMP is 2097152 (2M). In VCDX offices, Glunsize value for CMP is 2097152.

If a different size is wanted for the Unprotected ODD, Glunsize should be set to the desired number of bytes of Unprotected ODD. This size however must be a multiple of 16384, since the Unprotected and Protected ODDs must both start and end on 16 Kb boundaries.

Starting with 5E9_2M, the UODD size will not be a constant value based on the configuration type for the SMs. For the SMs the UODD size will be engineered now. The rules to engineer the size of the UODD for SMs will be stored in the prl/EVLuoddsz directory in the form of RL*.V (EVL) files. There will be one RL*.V file for each dynamic relation. The RL*.V file will have the sizing rules that dictate the initialization of the dynamic relation on the SM at the initialization time. ODA should populate Glunsize for SMs according to the sizing rules documented under prl/EVLuoddsz/RL*.V files. The Glunsize value on the SMs will be the result of concatenating all the sizing rules (RL*.V) files for the dynamic relations stored under the prl/EVLuoddsz directory.

***NOTE:*** Since Glunsize is defined for the AM but not used, its value should always be zero.

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***

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```
default = 0;
```

***Distribution Rules:***

```
        /* Populate on all SMs */
        for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Checks:***

```
/* RULE about Glunsize.values: */

        /* no check */ ;
```

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# Gluoddpct

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Gluoddpct | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Uodd Percent

### 1.2 Description:

This global parameter gives the percent of free space desired in the SM Unprotected ODD at initialization.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 35

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 35;
```

***Distribution Rules:***
```
        for modatt in RLmodatt

        pcrlist[modatt.module] = true;
```

***Checks:***
```
/*RULE about Gluoddpct.values: */
if (current_pcr is_in sm_all) then
begin
      Gluoddpct is_in {25 thru 100};
end
```

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# Glusrsts

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glusrsts | FR | DMshort |

### 1.1 Fullname

Global office parameter Glusrsts.

### 1.2 Description

This parameter is used by Generalized Ringing while allocating the ISLU-Z RG resource. This parameter shows the number of users assigned per ringing time slot on the RG. The formula to use when calculating this parameter is:

```
Glusrsts = (24) / Glnrgrsln
```

This parameter is not recent change (RC) able, but is affected by a RCV change to Glnrgrsln.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 4

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 4;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glusrsts.values: */
Glusrsts is_in {1 thru 24};
```

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# Glustwcama

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glustwcama | FR | DMbool |

### 1.1 Fullname

Global office parameter Glustwcama.

### 1.2 Description

This parameter is used by Usage Sensitive Three Way Calling (USTWC) Special Feature. It will be used to store the YES/NO indication for the generation of USTWC AMA activation records. The default value will be NO. The default value cannot be changed unless the usage sensitive three way calling special feature (SFID 106) or the spontaneous usage sensitive three way calling(SFID 156 ) has been purchased. This parameter replaces Glsf2dummy which was used in 5e8 to provide this information.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ***NOTE:*** This global must be DBNO if one of the corresponding secured feature bits, (SFID 106) or (SFID 156), is not turned on.

***Retrofit Rules:*** In a retrofit to 5E9, ODA should carry the value in the Glsf2dummy global parameter into this global parameter.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glustwcama.values: */
/* no check */ ;
```

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# Glustwcchrg

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glustwcchrg | FR | DMbool |

### 1.1 Fullname

Global office parameter Glustwcchrg.

### 1.2 Description

This parameter is used by usage sensitive three way calling (USTWC) special feature. It will be used to store the YES/NO indication for the generation of USTWC AMA charge records. The default value will be NO. The default value cannot be changed unless the USTWC special feature (SFID 106) or spontaneous usage sensitive 3-way calling feature (SFID 156) has been purchased. This parameter replaces Glsf3dummy which was used in 5e8 to provide this information.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ***NOTE:*** This global must be DBNO if one of the corresponding secured feature bits, (SFID 106) or (SFID 156), is not turned on.

***Retrofit Rules:*** In a retrofit to 5E9, ODA should carry the value in the Glsf3dummy global parameter into this global parameter.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glustwcchrg.values: */
/* no check */ ;
```

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# Glustwcfid

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glustwcfid | FR | DMmcc_fid |

### 1.1 Fullname

Global office parameter Glustwcfid.

### 1.2 Description

This global parameter is being used for the usage sensitive three way calling (USTWC) special feature. It will be used to store the feature identifier for USTWC. This feature identifier will consist of two components: a modular feature type (top 6 bits, bits 15 to 10) and a unique identifier (bottom 10 bits, bits 9 to 0). It will only be stored if the feature has been unlocked and if stored will indicate that the feature is available in the office. The default value will be 0. The default cannot be changed unless the USTWC feature has been unlocked.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter must be 0 if both secured feature bits, SFID106 and SFID156, are turned off.

```
 if
if
     Glsptwcac is SP_UNAVAIL and
     Glustwcfid is non-zero,
then
     the attributes of the multiway feature that
     must be set to define this feature are:
     RLmwcfdfl.epflash = DBNO
     RLmwcfdfl.bill_flat = DBNO
     RLmwcfdfl.bill_actchrg = DBYES
     RLmwcfdfl.cntrl = MW3_WAY
If
     Glsptwcac is SP_GENAVAIL or SP_SUBSCR,
then
     Glustwcfid must be non-zero and
     the attributes of the multiway feature that
     must be set to define this feature are:
     RLmwcfdfl.epflash = DBYES
     RLmwcfdfl.bill_flat = DBNO
```

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```
     RLmwcfdfl.bill_actchrg = DBYES
     RLmwcfdfl.cntrl = MW3_WAY
```

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glustwcfid.values: */
/* no check */ ;

/* RULE about Glustwcfid: */

/* This is a crosscheck to ensure that Glustwcfid is set to the
 * the correct values for the preconstructed feature based on
 * the type of usage sensitive three way calling.
 */

/* If the global parameter for Spontaneous USTWC access( Glsptwcac)
 * is non-zero, then the feature is available for use and the global
 * parameter with the feature id must be populated with a non-zero value.
 */

if ( Glsptwcac != SP_UNAVAIL ) then
        Glustwcfid != 0;
end

/* If Glsptwcac is zero (SP_UNAVAIL),
 * and there is non-zero value in Glustwcfid,
 * then Spontaneous USTWC is not active,
 * and Glustwcfid must be a fid
 * that matches a constructed feature with the correct characteristics
 * to define the Access Code version of USTWC.
 */

if ( Glsptwcac == SP_UNAVAIL && Glustwcfid != 0 ) then
begin
        find == 1 mwcfdfl in RLmwcfdfl
        where ( mwcfdfl.feat_id == Glustwcfid )
        when_found
        begin
                mwcfdfl.epflash == DBNO;
                mwcfdfl.bill_flat == DBNO;
                mwcfdfl.bill_actchrg == DBYES;
                mwcfdfl.cntrl == MW3_WAY;
        end
end

/* If Glsptwcac is non-zero (SP_GENAVAIL or SP_SUBSCR),
 * then Spontaneous USTWC is active,
```

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```
 * and there must be a non-zero value in Glustwcfid,
 * and Glustwcfid must be a fid that matches a constructed
 * feature with the correct characteristics
 * to define the Spontaneous version of USTWC.
 */

if ( Glsptwcac != SP_UNAVAIL && Glustwcfid != 0 ) then
begin
        find == 1 mwcfdfl in RLmwcfdfl
        where (mwcfdfl.feat_id == Glustwcfid)
        when_found
        begin
                mwcfdfl.epflash == DBYES;
                mwcfdfl.bill_flat == DBNO;
                mwcfdfl.bill_actchrg == DBYES;
                mwcfdfl.cntrl == MW3_WAY;
        end
end
```

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# Glutdpct

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glutdpct | FP | DMshort |

### 1.1 Fullname

Global office parameter Glutdpct.

### 1.2 Description

Glutdpct specifies the maximum percentage of UTDs that can be allocated for use by send To outside resource feature. This is expressed as a percentage of the total available UTDs per SM. The limit is applied within an SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 10

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** SFID229 must be turned on before Glutdpct can be changed from the default.

***Retrofit Rules:*** not applicable

***Default Rules:***

```
default = 10;
```

***Distribution Rules:***

```
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
      /* RULE about Glutdpct.values: */
      Glutdpct is_in {0 thru 100};
end
```

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## 3.32 Glv

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# Glvdigtmg

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glvdigtmg | FR | DMulong |

### 1.1 Fullname:

Vector Digit Timing

### 1.2 Description:

This parameter is being used to store two Call Vector prompt values for CACD. The lower 16 bits (0-15) are used to store the values of the first digit prompt timeout value (in milliseconds). The range is 0 - 64000. RC and ODA are to show the value in seconds (0 - 64) and convert back and forth to the value of milliseconds stored in the database. The upper 16 bits (16-31) are used to store the timeout value (in milliseconds) for the remaining digits in a multidigit prompt step. The RC/ODA range is again 0 - 64 seconds.

***Type:*** DBULONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBHEX

***SM Initial Value:*** 0x13881f40

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** ODA and RC must display the two values in seconds on the view, but must store the values in milliseconds in the global. The first vector digit timing value is stored in the lower 16 bits and the other vector digit timing value is stored in the upper 16 bits. The RC/ODA range for both timing values is 0 - 64 seconds.

***Retrofit Rules:*** This value is being carried forward from Gloff2 in 5E8. Reverse and forward mapping in 5E9 must switch from Gloff2 to this parameter. The method of storage is unchanged, just the name of the parameter is changing (from Gloff2 to Glvdigtmg).

***Default Rules:***

```
default = 0x13881F40;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
/* RULE about Glvdigtmg.values: */

Glvdigtmg{0:15} is_in {0 thru 0xFA00};
Glvdigtmg{16:31} is_in {0 thru 0xFA00};
```

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# Glvirt_txt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glvirt_txt | FP | DMchar6 |

### 1.1 Glvirt_txt

Virtual card display text.

### 1.2 Description

This parameter is used by the ACCS for CCC feature to store the six-character virtual card text displayed on the operator position.

***Type:*** DB8STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ""

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** None.

***Retrofit Rules:*** This value should remain intact over a generic retrofit.

***Default Rules:***
```
default = "";
```

***Distribution Rules:*** Though this global parameter will be treated as group partitioned, since FG is not a valid distribution type for global parameters, FP will be used. FP global parameters exist on all SMs, thus the following distribution rules.

Please note that Glvirt_txt's group partitioning will be enforced in the checks section.
```
for pcr in sm_all

pcrlist[pcr] = true;
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
/* RULE about Glvirt_txt.values: */
let pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
if (current_pcr is_in sm_all) then
begin
```

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```
        /* For SMs in the GPD_OSPS-4 group, Glvirt_txt can take on
         * the full range of its domain.  We only must verify that
         * Glvirt_txt is the null string on SMs not in the group.
         */
        if ( pcrlist[current_pcr] == false ) then
        begin
                Glvirt_txt == "";
        end
end
```

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# Glvirtsw

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glvirtsw | LRFR | DMbool |

### 1.1 Fullname:

Global Office Parameter Glvirtsw

### 1.2 Description:

This global parameter is used to indicate whether or not the switch is part of a virtual switch (that is, the switch is either an IDRM or a host for IDRMs). When Glaws is DBYES and Glvirtsw is DBYES, the switch is an IDRM. When Glaws is DBNO and Glvirtsw is DBYES, the switch is capable of being of host for IDRMs.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:***

```
If (SFID525 == DBNO) then
  Glvirtsw == DBNO
```

***Retrofit Rules:*** None.

***Default Rules:***

```
default=DBNO;
```

***Distribution Rules:***

```
        /* standard */
```

***Checks:***

```
        /* none */
```

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# Glvlon

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glvlon | FP | DMbool |

### 1.1 Glvlon

Volume limits feature activation.

### 1.2 Description

This is the feature activation parameter for the OSPS customer account services (CAS) volume limits feature, which provides the ability to limit the number of calls that can be charged to a card. Y means the feature is active. N means the feature is not active.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parameters, so FP is specified */
/* here.  The group partitioning should be:               */
/*      RLdb_gpdus.grp_type = GPD_OSPS                    */
       RLdb_gpdus.grp_id   = 3                            */
       pcrlist = get_gpd_pcrlist (GPD_OSPS,3);
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
      /* RULE about Glvlon.values: */
      /* no check */ ;
```

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```
      /* RULE about Glvlon: */
      /* There must be a check to ensure that the Inward Validation ID */
      /* parameter Glivion is DBYES before this feature is activated.  */
      if (Glvlon == DBYES) then
      begin
            Glivion == DBYES;   /* 9.1 */
      end
end
```

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# Glvmbsy

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glvmbsy | FP | DMbool |

### 1.1 Fullname:

Voice Messaging Service announcement prompt on busy calls

### 1.2 Description:

This global parameter shall be used to enable/disable the VMS prompting treatment on busy calls.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* This global is really group partitioned, but FG cannot
        /* be specified for global parameters, so FP is specified
        /* here.  The group partitioning should be:
        /*      RLdb_gpdus.grp_type = GPD_OSPS
        /*      RLdb_gpdus.grp_id   = 4
        pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
        for pcr in sm_all
        pcrlist[pcr] = true;
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
/* RULE about Glvmbsy: */

/* There shall be a crosscheck to ensure that Glvmson is DBYES */
/*  before this feature is activated                            */
```

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```
let pcrlist = get_gpd_pcrlist (GPD_OSPS, 4);

if (current_pcr is_in sm_all) then
begin
        if (pcrlist[current_pcr] == true) then
        begin
                if (Glvmbsy == DBYES)
                then
                        Glvmson == DBYES;
        end
end
```

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# Glvmind

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glvmind | FR | DMbool |

### 1.1 Glvmind

Voice Messaging Service Interface Ring/No Answer (VMSI R/NA) prompting treatment activation bit for indeterminate calls

### 1.2 Description

This parameter shall be used to enable/disable the VMSI R/NA feature on the switch. Glvmrng

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glvmind.values: */
/* no check */ ;

/* RULE about Glvmind: */
/* There shall be a crosscheck to ensure that Glvmrng is DBYES */
/*  before this feature is activated                           */
if (Glvmind == DBYES) then
begin
        Glvmrng == DBYES;
end
```

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# Glvmrng

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glvmrng | FP | DMbool |

### 1.1 Fullname:

Voice Messaging Service announcement prompt on ring no answer

### 1.2 Description:

This global parameter shall be used to enable/disable the VMS prompting treatment on ring no answer calls.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* This global is really group partitioned, but FG cannot
        /* be specified for global parameters, so FP is specified
        /* here.  The group partitioning should be:
        /*      RLdb_gpdus.grp_type = GPD_OSPS
        /*      RLdb_gpdus.grp_id   = 4
        pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
        for pcr in sm_all
        pcrlist[pcr] = true;
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glvmrng: */
```

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```
/* There shall be a crosscheck to ensure that Glvmson is DBYES
/*  before this feature is activated

let pcrlist = get_gpd_pcrlist (GPD_OSPS, 4);

if (current_pcr is_in sm_all) then
begin
        if (pcrlist[current_pcr] == true) then
        begin
                if (Glvmrng == DBYES)
                then
                        Glvmson == DBYES;
        end

end

end
```

# Glvmsadtmr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glvmsadtmr | FR | DMuns7 |

### 1.1 Glvmsadtmr

Global Office Parameter Glvmsadtmr

### 1.2 Description

The global, Glvmsadtmr, is used to specify the length of time, in 10ths of a second intervals, OSPS shall wait to determine when a caller has entered an Enhanced Service Provider (ESP) access code.

The unit for this parameter is tenths of seconds and can be changed in tenths of seconds increments.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 20

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 20;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glvmsadtmr.values: */
Glvmsadtmr is_in {10 thru 90};
```

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# Glvmson

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glvmson | FP | DMbool |

### 1.1 Glvmson

Voice Messaging Service Interface (VMSI) feature activation bit.

### 1.2 Description

This parameter shall be used to enable/disable the VMSI feature on the switch. Glospsta

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** Gloff2, which is the hard-coded bit used in 5E6. If the 5E6 Office does not have the VMSI, Issue 1, feature activated, then the default value should be used.

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parmeters, so FP is specified  */
/* here.  The group partitioning should be:               */
/*      RLdb_gpdus.grp_type = GPD_OSPS                    */

pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
/* RULE about Glvmson.values: */
        /* no check */ ;

/* RULE about Glvmson: */
/* There shall be a crosscheck to ensure that Glospsta is DBYES */
```

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```
/*  before this feature is activated                              */
if (current_pcr is_in sm_all) then
begin
if (Glospsta == DBNO) then
begin
        Glvmson == DBNO;
end
end

/* Glvmssc must be known
if (Glvmson equals DBYES) then
begin
Glvmssc must_equal DBYES;
end
*/
```

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# Glvmssc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glvmssc | FP | DMchar3 |

### 1.1 Fullname:

VMSI Service Code

### 1.2 Description:

This global office parameter is provided to specify the VMSI service code of the Enhanced Service Provider (ESP). The format of the service code shall be '1Z', or '19Z', to indicate to the switch that a request to transfer to an ESP is being made. 'Z' is a digit from 1 to 8 and shall designated by the TCA. Gl_pcrid, Glsabac .

***Type:*** DB4STRPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** - -

***AM Initial Value:*** - -

***CMP Initial Value:*** - -

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** On a retrofit from a 5E6 Office, which has the Voice Messaging Service Interface (VMSI), Issue 1, feature activated, to a 5E7 Software Release version of VMSI (Issue 2), the parameter Glvmssc must be set to '12', which is the hard-coded value used in 5E6. The Global parameter used in 5E6 to indicate the feature is activated is the zero bit of Gloff2. If the bit is nonzero, the feature is activated in 5E6 and this parameter Glvmssc must be set to '12'. When the VMSI feature is not active in 5e6, the parameter must be set to the default value.

***Default Rules:***

```
default = "12";
```

***Distribution Rules:***

```
        /* This global is really group partitioned, but FG cannot */
        /* be specified for global parameters, so FP is specified  */
        /* here.  The group partitioning should be:                */
        /*      RLdb_gpdus.grp_type = GPD_OSPS                     */
        /*      RLdb_gpdus.grp_id   = 3                            */
        pcrlist = get_gpd_pcrlist (GPD_OSPS,3);
```

***Import:***

```
env.R,
PLgpd_defs.R
```

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***Checks:***

```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glvmssc.values: */

Glvmssc ~== "[1][9]{0,1}[1-8]" ||
Glvmssc is_in {""};

/* RULE about Glvmssc: */

/* This global is null on all SMs not belonging  */
/* to the distribution group, non-null otherwise */begin
let bool = (count { db_gpdus in RLdb_gpdus
where (db_gpdus.grp_type == GPD_OSPS &&
    db_gpdus.grp_id == 3 &&
    db_gpdus.module == Gl_pcrid)} == 1);
if (bool == false) then
begin
        Glvmssc == "";
end
else
begin
        if (runucv) then
        Glvmssc != "";
end
Glvmssc != Glsabac;
end

end
```

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# Glvmtmi

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glvmtmi | FP | DMuns7 |

### 1.1 Glvmtmi

Apply VMS R/NA prompting treatment on indeterminate calls.

### 1.2 Description

This parameter is used by the VMSI capability to indicate the length of time, measured in seconds, it will wait before applying VMS R/NA (ring no answer) prompting treatment on indeterminate calls.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 36

***AM Initial Value:*** 36

***CMP Initial Value:*** 36

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 36;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parameters, so FP is specified  */
/* here.  The group partitioning should be:                */
/*      RLdb_gpdus.grp_type = GPD_OSPS                     */
/*      RLdb_gpdus.grp_id   = 4                            */
pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
      /* RULE about Glvmtmi.values: */
      Glvmtmi is_in {0 - 120};
end
```

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# Glvmtmr

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glvmtmr | FP | DMuns7 |

### 1.1 Glvmtmr

Apply VMS announcement prompting on R/NA.

### 1.2 Description

This parameter is used by the VMSI capability to indicate the length of time, measured in seconds, it will wait before applying VMS prompting treatment on ring no answer calls.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 36

***AM Initial Value:*** 36

***CMP Initial Value:*** 36

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 36;
```

***Distribution Rules:***
```
/* This global is really group partitioned, but FG cannot */
/* be specified for global parameters, so FP is specified  */
/* here.  The group partitioning should be:                */
/*      RLdb_gpdus.grp_type = GPD_OSPS                     */
/*      RLdb_gpdus.grp_id   = 4                            */
pcrlist = get_gpd_pcrlist (GPD_OSPS,4);
```

***Import:***
```
PLgpd_defs.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
      /* RULE about Glvmtmr.values: */
      Glvmtmr is_in {0 - 120};
end
```

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# Glvqttydls

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glvqttydls | FP | DMuns4 |

### 1.1 Glvqttydls

Global Office Parameter Glvqttydls

### 1.2 Description

This parameter specifies the quantity of voice quote (VQ) data link digital subscriber lines (DSL)s connected to the VQ teletypes at the Hotel Billing Information Center. This parameter is meaningless if the OSPS is served by a Hotel Billing Information System. This parameter is populated by ODA and RC but does not appear on any view. Each SM's parameter is set to the number of RLDLDSL tuples in that SM with the servclass attribute set to FC_HOTVT.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This global is NOT SM redundant, instead each SM will have the global but with possibly different contents.

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin
      /* RULE about Glvqttydls.values: */
      Glvqttydls is_in {0 thru 8};
end
```

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# Glvt_pst

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glvt_pst | LR | DMquarhour |

### 1.1 Glvt_pst

Global Office Parameter Glvt_pst

### 1.2 Description

Timer for variable-timed permanent signal threshold for lines - quarter-hour increments. This timer is set in quarter-hour increments (every 15 min., every 30 min., every 45 min., or every 60 min. Range of values; min. 15, max. 60.

```
DB15_MIN (15 min.)
DB30_MIN (30 min.)
DB45_MIN (45 min.)
DB60_MIN (60 min.)
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DB30_MIN

***CMP Initial Value:*** DB30_MIN

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:*** none

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glvt_pst.values: */
Glvt_pst is_in {DB15_MIN, DB30_MIN, DB45_MIN, DB60_MIN};
```

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## 3.33 Glw

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# Glwb_trks

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glwb_trks | FP | DMushort |

### 1.1 Glwb_trks

Global Office Parameter for count of wideband capable trunks

### 1.2 Description

The Glwb_trks global parameter contains the total number of wideband capable trunks (ISUP and PRI) assigned on this SM. Its value is maintained over all initializations. The RLfc_trunk trigger function updates the value when wideband capable trunks are inserted, updated, and deleted on recent change/verify (RC/V) View 5.5.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** This parameter is not supported by RC. The value of this parameter is established by ODA and will be updated by trigger functions as wideband capable trunks are inserted, updated or deleted. Its value can increase and decrease.

***Retrofit Rules:*** This value should be recalculated during a generic retrofit.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Populate on all SMs */
for modatt in RLmodatt
pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glwb_trks.values: */
Glwb_trks is_in {0 thru 24192};

/* RULE about Glwb_trks: */
Glwb_trks == count {fc_trunk in RLfc_trunk
```

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```
                    where ((fc_trunk.wb_rate != WB_NULL) &&
                           ((fc_trunk.in_sigtype == DBISUP7) ||
                            (fc_trunk.out_sigtype == DBISUP7) ||
                            (fc_trunk.in_sigtype == DBDCHAN) ||
                            (fc_trunk.out_sigtype == DBDCHAN)))};
end
```

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# Glwbscpaon

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glwbscpaon | LRFR | DMbool |

### 1.1 Glwbscpaon

Global office parameter Glwbscpaon

### 1.2 Description

This global parameter will indicate whether this office has the ability to perform white book SCCP Functionality. The meaning of the values in this Global Parameter are as follows.

```
Value   Meaning
-----   -------
DBNO    White book SCCP functionality has not been sold.
DBYES   White Book SCCP functionality has been sold to
        this customer.
```

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBYES

***AM Initial Value:*** DBYES

***CMP Initial Value:*** DBYES

***RC/ODA Rules:*** ODA: Depending on the setting, either the feature is allowed globally per market, or can be set per office via a password.

RC: Recent Change and Verify can only update this Global Parameter via a password.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = DBYES;
```

***Distribution Rules:***
```
/* Standard */
```

***Checks:***
```
/* none */
```

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# Glwl_gsm

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glwl_gsm | LRFR | DMmodule |

### 1.1 Glwl_gsm

Wireless global SM number.

### 1.2 Description

This parameter contains the number of the SM that is serving as the wireless global SM. This SM contains the PSU that terminates all the signaling links from the base stations (cell sites) that this switching office is connected to.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** No wireless global SM is supported, therefore Glwl_gsm should be populated with 0.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* Glwl_gsm should be 0. */
Glwl_gsm == 0;
```

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# Glwlntwk

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glwlntwk | FP | DMushort |

### 1.1 Glwlntwk

Wireless network identity.

### 1.2 Description

This parameter identifies the wireless logical network that the SM belongs to. This is significant in that it will tell us which global SM the wireless MAP messages are received from and sent to by looking up RLnet_gsm using Glwlntwk as the key.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules: NOTE:*** No wireless global SM is supported, therefore Glwlntwk should be populated with 0.

***Retrofit Rules:*** None.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
if (Glwl_gsm != 0) then
begin
       pcrlist[Glwl_gsm] = true;
end
```

***Checks:***

```
if (current_pcr is_in sm_all) then
begin
       /* Glwlntwk should be 0. */
       Glwlntwk == 0;
end
```

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# Glwlprtcol

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glwlprtcol | LRFR | DMwlmapprt |

### 1.1 Glwlprtcol

Wireless MAP protocol

### 1.2 Description

This parameter identifies the type of MAP protocol running in the system. Currently, it is either the GSM MAP protocol or the DMNI protocol for Japan wireless.

***Type:*** DBENUMPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** WL_NULL

***AM Initial Value:*** WL_NULL

***CMP Initial Value:*** WL_NULL

***RC/ODA Rules:*** This is a RDDI defined and populated parameter. RC/V has read access only.

***NOTE:*** No wireless global SM is supported, therefore Glwlprtcol should be populated with WL_NULL.

***Retrofit Rules:*** None.

***Default Rules:***
```
default = WL_NULL;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* Glwlprtcol should equal WL_NULL. */
Glwlprtcol == WL_NULL;
```

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# Glwprt_cnt

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glwprt_cnt | FP | DMushort |

### 1.1 Glwprt_cnt

W port count on WNC

### 1.2 Description

This parameter keeps count of the active W ports per WNC. This parameter is only used by the WNC SM and should not used by *Autoplex*®.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** This parameter is supported by RC. This parameter is not supported by ODA.

***Retrofit Rules:*** For non-WNC office, the value of this parameter is set to zero.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Import:***
```
usp5defs.R,
chk_apperm.R
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glwprt_cnt: */
if (c_aperm(PVMSKWNC, CONFIGMAX) == true) then
begin
        let wprt_cnt = 0 + count { fc_porttyp in RLfc_porttyp
                 where ( fc_porttyp.lp_type == PCLSPOTSL &&
                 fc_porttyp.servclass == FC_INDVDL ) };
```

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```
        Glwprt_cnt == wprt_cnt;
        Glwprt_cnt is_in { 0 thru 1024 };
end
else
begin
        Glwprt_cnt == 0;
end
end
```

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## 3.34 GIx

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# Glx75

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glx75 | LR | DMuchar |

### 1.1 Glx75

Global Office Parameter Glx75

### 1.2 Description

This parameter indicates the total number of X.75 Trunk Groups in an office. It is nonprovisionable by the craft. When craft insert/delete an X.75 Trunk Group, RCV/ODA will increment/decrement this count.

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glx75.values: */
Glx75 is_in {0 thru 255};
```

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# Glx75p

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glx75p | LR | DMuchar |

### 1.1 Glx75p

Global Office Parameter Glx75p

### 1.2 Description

This parameter indicates the total number of X.75' Trunk Groups in an office. It is nonprovisionable by the craft. When craft insert/delete an X.75' Trunk Group, RCV/ODA will increment/decrement this count.

***Range:*** 0 to 255 (maximum of 255 X.75' trunk groups per switch)

***Type:*** DBCHARPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Not applicable.

***Retrofit Rules:*** Not applicable.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* standard */
```

***Checks:***
```
/* RULE about Glx75p.values: */
Glx75p is_in {0 thru 255};

/* RULE about Glx75p: */
begin
      let tupcount = 0 + count { rctgrprk in RLrctgrprk
where (rctgrprk.servclass == PSX75P_TK)};
/* must count the # of x.75' trunk group tuples in RLrctgrprk.
 * The count of tuples must match the value of this global
 * parameter! If the calue of Glx75p is zero then no tuples
 * should be found in RLrctgrprk with a service class of PSX7.
```

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```
 * In this case the tupcount variable will remain zero and should
 * match the value of the parameter.
 */
 lx75p == tupcount;

end
```

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# Glxcamaq

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glxcamaq | LR | DMuns8 |

### 1.1 Glxcamaq

Global Office Parameter Glxcamaq

### 1.2 Description

Glxcamaq global parameter identifies a unique OSPS ACD call queue reserved for transfer CAMA calls. This excludes interflowed transfer CAMA calls that are being received and directed to a different call queue via the ospsid attribute in RLac_cqdet. It includes interflowed transfer CAMA calls that aren't directed to a different call queue via the ospsid attribute. The range is 0 - 128. This parameter is used to generate transfer CAMA call queue measurements. When a call queue is reserved solely for transfer CAMA calls, Glxcamaq should be set to the value of the callq attribute in the RLac_cqdet tuple having the key attributes set to:

```
Attribute       Value
---------       -----
ta_type         XFER_CAMA
prefix          NULLPREF
coin            OASTNONCOIN
ospsid          0
carrier         OADC_CARR
```

If another tuple is found in RLac_cqdet having the callq attribute equal to the callq attribute of the transfer CAMA tuple described above, then a call queue is not reserved solely for transfer CAMA calls, and in this case Glxcamaq should be set to 0. If a tuple exists in RLac_destx or RLac_tgrp having its callq attribute equal to the callq attribute of the transfer CAMA tuple in RLac_cqdet described above, then a call queue is not reserved solely for transfer CAMA calls, and in this case Glxcamaq should be set to 0. If the usenext attribute of the transfer CAMA tuple in RLac_cqdet described above is equal to TATGRP and a tuple exists in RLac_tgrp where RLac_tgrp.ta_pcid equals RLac_cqdet.ta_pcid, then it is assumed that a call queue is not reserved solely for transfer CAMA calls, and in this case Glxcamaq should be set to 0. This assumption is based on the fact that it is not logical for a customer to request a second level of call type determination without the intention of specifying a call queue different than the call queue defined at the first level.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Not applicable.

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***Retrofit Rules:*** Not applicable.

***Default Rules:***

```
default = 0;
```

***Distribution Rules:***

```
/* standard */
```

***Checks:***

```
/* RULE about Glxcamaq.values: */
        /* no check */ ;
```

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# Glxdbdls

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glxdbdls | FP | DMuns8 |

### 1.1 Glxdbdls

Global Office Parameter Glxdbdls

### 1.2 Description

DESCRIPTION: This parameter specifies the quantity of external data base (XDB) data link DSLs that are connected to the SM. Each SM's parameter is set to the number of RLDLDSL tuples in that SM with the servclass attribute set to TM_XDB.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** Not applicable.

***Retrofit Rules:*** Not applicable.

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
/* Populate on all SMs */

for modatt in RLmodatt

pcrlist[modatt.module] = true;
```

***Checks:***
```
if (current_pcr is_in sm_all) then
begin

/* RULE about Glxdbdls.values: */
Glxdbdls is_in {0 thru 160};
end
```

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# Glxdctumtb

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glxdctumtb | FP | DMlong |

### 1.1 Fullname:

Global Office parameter Glxdctumtb

### 1.2 Description:

This global parameter indicates whether an MSU service group ( represented by the bit 2*msu + sg) uses FLexible DCTU connection ( bit value 1) or connects to each DCTUPORT using only a single MTB (bit value 0).

***Type:*** DBLONGPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***SM Initial Value:*** 0

***AM Initial Value:*** 0

***CMP Initial Value:*** 0

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
;/* none */
```

***Distribution Rules:***
```
        ;
```

***Checks:***
```
/* Rule about Glxdctumtb values */

Glxdctumtb{4:31} == 0;
```

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# Glxdpc

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glxdpc | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glxdpc

**Defines:**
db/RLxdpcstat.h, db/RLxlist.h

### 1.2 Description:

This global parameter contains the current total number of RLxdpcstat tuples inserted.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** CCxdpc,

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** There are no special RC/ODA rules.

***Retrofit Rules:*** Preserved over retrofit.

***Default Rules:***
```
/* Follow the following checks. */
```

***Distribution Rules:***
```
        for gsm_opc in RLgsm_opc
        begin
                pcrlist[gsm_opc.gsm] = true;
        end
```

***Checks:***
```
if (Gl_pcrid == Glglobalsm) then
begin

        /* The number of RLxdpcstat tuples depends on
```

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```
 * (1) the number of clusters allowed to track X-list DPCs
 * (2) the number of cluster routesets + network routesets
 *     provisioned that might have remotely congested DPCs.
 */

find == 1 indx in RLindx
where (indx.idx_name == CCCLIXTOT)
when_found
begin

        let NUMCONG = indx.max_idx + Glnumnetid;

        /* The number of cluster- or network-routed DPCs
         * that have to be tracked for remote congestion
         * in RLxdpcstat tuples is capped by the requirements
         * at CCMAXCONGDPC (r-95.01.0025-2440v1)
         */
        if (($CCMINCONGDPC + ($CCCONGDPC_PER * NUMCONG))
                                    < $CCMAXCONGDPC) then
        begin
                /* If the calculated required number plus
                 * the incremental number (Glixdpc) from
                 * form SREINCR is less than the max
                 * possible tuples in RLxdpcstat, then use
                 * the calculated total, otherwise limit
                 * (Glxdpc + Glixdpc) to the max possible
                 * number of tuples in RLxdpcstat.
                 */
                if ((($CCMINXLIST + ($CCXLIST_PER *
                      Glnumxlist)) +
                ($CCMINCONGDPC + ($CCCONGDPC_PER * NUMCONG)) +
                      Glixdpc) < ($DBQNXDPCSTAT -
                                  $DBSFXDPCSTAT - 1)) then
                begin
                      Glxdpc == (($CCMINXLIST +
                                 ($CCXLIST_PER *
                                  Glnumxlist)) +
                                ($CCMINCONGDPC +
                                  ($CCCONGDPC_PER *
                                    NUMCONG)));
                end
                else
                begin
                        Glxdpc == ($DBQNXDPCSTAT -
                              $DBSFXDPCSTAT - 1) - Glixdpc;
                end
        end
        else
        begin
                /* The number of tuples for remotely
                 * congested DPCs has hit the cap, so
                 * calculate the total accordingly
                 */
                if ((($CCMINXLIST + ($CCXLIST_PER *
```

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```
                              Glnumxlist)) + $CCMAXCONGDPC +
                              Glixdpc) <
                              ($DBQNXDPCSTAT - $DBSFXDPCSTAT - 1))
                              then
                        begin
                                Glxdpc == ($CCMAXCONGDPC +
                                          ($CCMINXLIST +
                                          ($CCXLIST_PER *
                                           Glnumxlist)));
                        end
                        else
                        begin
                                Glxdpc == ($DBQNXDPCSTAT -
                                           $DBSFXDPCSTAT - 1) -
                                           Glixdpc;
                        end
                end
        end
end
else /* not a GSM, no RLxdpcstat tuples exist */
begin
        Glxdpc == 0;
end
```

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# Glxlist

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glxlist | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glxlist

**Defines:**
db/RLxlist.h

### 1.2 Description:

This global parameter contains the current total number of RLxlist tuples inserted.

***Type:*** DBUSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBDECIMAL

***TRIGGER:*** CCxlist,

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** There are no special RC/ODA rules.

***Retrofit Rules:*** Preserved over retrofit.

***Default Rules:***
```
/* Follow the following checks. */
```

***Distribution Rules:***
```
        for gsm_opc in RLgsm_opc
        begin
                pcrlist[gsm_opc.gsm] = true;
        end
```

***Checks:***
```
if (Gl_pcrid == Glglobalsm) then
begin

        /* The number of RLxlist tuples depends on the
         * number of cluster routesets provisioned with
         * RLclu_info.xlist_alw set to "DBYES", starting
```

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```
         * with a minimum value, limited by the max possible
         * number of tuples in RLxlist.
         */

        if (($CCMINXLIST + ($CCXLIST_PER * Glnumxlist)) + Glixlist <
                ($DBQNXLIST - $DBSFXLIST - 1)) then
        begin
                Glxlist == $CCMINXLIST + ($CCXLIST_PER * Glnumxlist);
        end
        else
        begin
                Glxlist == ($DBQNXLIST - $DBSFXLIST - 1) - Glixlist;
        end
end
else /* not a GSM, no RLxlist tuples exist */
begin
        Glxlist == 0;
end
```

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# Glxmit_ltp

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glxmit_ltp | FP | DMushort |

### 1.1 Fullname:

Global Office Parameter Glxmit_ltp

### 1.2 Description:

The global parameter Glxmit_ltp contains the total number of logical test ports for Integrated Service transmission test in an SM.

***Type:*** DBSHORTPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** EQUIPMENT

***IOTYPE:*** ---

***SM Initial Value:*** 0

***AM Initial Value:*** ---

***CMP Initial Value:*** ---

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = 0;
```

***Distribution Rules:***
```
         for modatt in RLmodatt
        pcrlist[modatt.module] = true;
```

***Import:***
```
env.R
```

***Checks:***
```
/* runslow added due to linear search of FC_PORTTYP and excessive
 * cpu usage */
if (runslow) then
begin

if (current_pcr is_in sm_all) then
begin
/*RULE about Glxmit_ltp.values: */
```

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```
Glxmit_ltp == count { xmit_ltp in RLfc_porttyp
                where( xmit_ltp.port.module == Gl_pcrid &&
                       xmit_ltp.servclass == TM_ISTFXMIT ) };

/* the total number of logical test ports should not be
 * greater than the total number of the channel circuits.
 */
Glxmit_ltp <= Glistfxmit;
end

end
```

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# Glxnopcdfl

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glxnopcdfl | LP | DMbool |

### 1.1 Glxnopcdflag.

Global Office Parameter Glxnopcdflag.

### 1.2 Description

This parameter is the indicator for Traffic Measurements used to indicate when a STP/OPC Policed Destination has been deleted. Recent Change will set this flag to a DBYES, when it deletes a Point Code from the STP/OPC feature on any SS7 (formerly CCITT7) National Global SM.

***Type :*** DBENUMPAR

***ODBE Access:*** DBNODISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** ---

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** ***NOTE:*** The STP/OPC Policing feature isn't supported, therefore Glxnopcdfl should be populated with DBNO.

***Retrofit Rules:*** None .

***Default Rules:***

```
default = DBNO;
```

***Distribution Rules:***

```
 pcrlist[193] = true;
```

***Checks:***

```
/* Glxnopcdfl should equal DBNO. */
Glxnopcdfl on am == DBNO;
```

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## 3.35 Glz

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# Glzmiclata

## 1. Description

| Parameter | Distribution | Domain |
|---|---|---|
| Glzmiclata | FR | DMbool |

### 1.1 Fullname:

Zero Minus ICLATA Glzmiclata

### 1.2 Description:

This parameter is used to provide the options between ICLATA 0- calls and Selective Carrier Denial (SCD) feature. When set to DBNO, the LEC will carry ICLATA 0- calls in which no carrier was dialed by the user that would otherwise be blocked by SCD. When set to DBYES, the 0- calls will be blocked by SCD and receive SCD treatment. The SFID 149 (ICLATA) and SFID 013 (SCD) must be activated, or the Alternate Local Service Provider feature (SFID 269) and SFID 013 (SCD) must be activated, before DBYES can be assigned.

***Type:*** DBENUMPAR

***ODBE Access:*** DBDISPLAY

***DBGEN:*** DBYES

***Classification:*** OPTION

***IOTYPE:*** DBALPHA

***SM Initial Value:*** DBNO

***AM Initial Value:*** DBNO

***CMP Initial Value:*** DBNO

***RC/ODA Rules:*** not applicable

***Retrofit Rules:*** not applicable

***Default Rules:***
```
default = DBNO;
```

***Distribution Rules:***
```
        /* standard */
```

***Checks:***
```
/* RULE about Glzmiclata.values: */

Glzmiclata is_in {DBNO, DBYES};
```

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## 4. RC/VIEW TO BASE RELATION CROSS-REFERENCE

This section contains a listing of the *5ESS*®-2000 switch static data base global parameters and base relations. The associated Base Relations are listed for each Recent Change and Verify (RC/V) view number. The Global Parameters are prefixed with a "GL" and the Base Relations are prefix with an "RL".

A corresponding cross-reference of Recent Change View to Base Relation for each Recent Change View can be found in the 235-118-255 Recent Change Reference 5e14 Software Release.

| Recent Change View | Base Relation |
|---|---|
| 1.5.R | RLACT_SPR, RLARPORT, RLATCNTMSK, RLCGATYPE, RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDFTST, RLDISP_CF, RLDN_FEATS, RLDN_PSCM, RLEQUIPDSL, RLFC_4WIRE, RLFC_911TRNK, RLFC_CARR, RLFC_DIRCON, RLFC_LINE, RLFC_PORTTYP, RLFCHOTMOT, RLGENSCA, RLGENSCF, RLGENSCR, RLGENSDA, RLGROUP_PORT, RLGRP_MPM, RLHUNTKEYS, RLIMESP, RLIS_LINE, RLIS_TERM, RLISBILLDN, RLKEYLIST, RLLPT_PT, RLLSFHCA, RLLSFHCF, RLLSFHCR, RLLSFHDA, RLLTM_CLST, RLLTM_PORT, RLLTSBPORT, RLMASK_BLF, RLMDC_GRP, RLMHG_TGSR, RLMODATT, RLMONI_BLF, RLMS_ATT, RLMS_MLHG, RLMS_QAN, RLMS_QU, RLMSAPHSS, RLNOCCODE, RLPF_PORT, RLPGGPMAP, RLPP_LTM, RLPR_DNTRAN, RLPSGP_PRT, RLPSMHGDNR, RLPSX25LN, RLQU_CFDFL, RLQU_DLY, RLRC_ALPHO, RLRC_DNINFO, RLRC_EQLOC, RLRC_IDX, RLRC_ILTH, RLRC_LCC, RLRC_LPHOL, RLRC_MMINF, RLRC_OEINFO, RLRC_OLTH, RLRC_PGRPRMK, RLRC_SERVM, RLRC_SGPDN, RLRCTGRPRK, RLRMBLIST, RLRT_DNTRAN, RLRT_EDN, RLRT_FIXEDRI, RLRT_LGMEM, RLRT_MCTR, RLRT_MEM, RLRT_MHG, RLRT_MPG, RLRT_ROUTING, RLRT_SPECRI, RLRT_TRKG, RLRTDNMOD, RLRTDNMPG, RLRTGRPDN, RLRTSATLN, RLS96EQUIP, RLSCA_LTM, RLSCF_LTM, RLSCM_NSCM, RLSCR_LTM, RLSDA_LTM, RLSHTERM, RLTGCNTMSK, RLTLWSR, RLTMBLIST, RLTR8CONV, RLTREE_BLF |
| 1.6.R | RLACT_SPR, RLARPORT, RLATCNTMSK, RLCGATYPE, RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDFTST, RLDISP_CF, RLDN_FEATS, RLDN_PSCM, RLEQUIPDSL, RLFC_4WIRE, RLFC_911TRNK, RLFC_CARR, RLFC_DIRCON, RLFC_LINE, RLFC_PORTTYP, RLFCHOTMOT, RLGENSCA, RLGENSCF, RLGENSCR, RLGENSDA, RLGROUP_PORT, RLGRP_MPM, RLHUNTKEYS, RLIMESP, RLIS_LINE, RLIS_TERM, RLISBILLDN, RLKEYLIST, RLLPT_PT, RLLSFHCA, RLLSFHCF, RLLSFHCR, RLLSFHDA, RLLTM_CLST, RLLTM_PORT, RLLTSBPORT, RLMASK_BLF, RLMDC_GRP, RLMHG_TGSR, RLMODATT, RLMONI_BLF, RLMS_ATT, RLMS_MLHG, RLMS_QAN, RLMS_QU, RLMSAPHSS, RLNOCCODE, RLPF_PORT, RLPGGPMAP, RLPP_LTM, RLPR_DNTRAN, RLPSGP_PRT, RLPSMHGDNR, RLPSX25LN, RLQU_CFDFL, RLQU_DLY, RLRC_ALPHO, RLRC_DNINFO, RLRC_EQLOC, RLRC_IDX, RLRC_ILTH, RLRC_LCC, RLRC_LPHOL, RLRC_MMINF, RLRC_OEINFO, RLRC_OLTH, RLRC_PGRPRMK, RLRC_SERVM, RLRC_SGPDN, RLRCTGRPRK, RLRMBLIST, RLRT_DNTRAN, RLRT_EDN, RLRT_FIXEDRI, RLRT_LGMEM, RLRT_MCTR, RLRT_MEM, RLRT_MHG, RLRT_MPG, RLRT_ROUTING, RLRT_SPECRI, RLRT_TRKG, RLRTDNMOD, RLRTDNMPG, RLRTGRPDN, RLRTSATLN, RLS96EQUIP, RLSCA_LTM, RLSCF_LTM, RLSCM_NSCM, RLSCR_LTM, RLSDA_LTM, RLSHTERM, RLTGCNTMSK, RLTLWSR, RLTMBLIST, RLTR8CONV, RLTREE_BLF |
| 1.8.R | NULL, RLRC_OEINFO |

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| | |
|---|---|
| 1.8.V | RLRC_OEINFO |
| 1.9.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_LINE, RLFC_PORTTYP, RLLTSBPORT, RLMODATT, RLNOCCODE, RLRC_MULTIDN, RLRT_DNTRAN, RLRT_MCTR, RLRTDNMOD |
| 1.10.R | NULL, RLLTM_CLST, RLRC_OEINFO |
| 1.11.R | RLBFGMATCH, RLCKTDATA, RLCPNBN_CF, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDN_FEATS, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFC_LINE, RLFC_PORTTYP, RLFC_TRUNK, RLFID2NAME, RLGROUP_PORT, RLIS_LINE, RLLPT_PT, RLLTM_BFG, RLLTM_CLST, RLLTM_PORT, RLLTSBPORT, RLMHG_TGSR, RLMODATT, RLNOCCODE, RLPGGPMAP, RLRC_ALPHO, RLRC_OEINFO, RLRTDNMOD, RLSHTERM, RLTRMFEATS |
| 1.11.V | RLBFGMATCH, RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDN_FEATS, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFC_LINE, RLFC_PORTTYP, RLFC_TRUNK, RLFID2NAME, RLGROUP_PORT, RLIS_LINE, RLLPT_PT, RLLTM_BFG, RLLTM_CLST, RLLTM_PORT, RLLTSBPORT, RLMHG_TGSR, RLMODATT, RLNOCCODE, RLPGGPMAP, RLRC_ALPHO, RLRTDNMOD, RLSHTERM, RLTRMFEATS |
| 1.12.R | RLDN_FEATS, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFC_LINE, RLFID2NAME, RLIS_LINE, RLMHG_TGSR, RLTRMFEATS |
| 1.15.V | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_LINE, RLFC_PORTTYP, RLGROUP_PORT, RLLTSBPORT, RLMODATT, RLNOCCODE, RLPGGPMAP, RLRC_MULTIDN, RLRC_OEINFO, RLRC_PGRPRMK, RLRC_SGPDN, RLRT_DNTRAN, RLRT_MHG, RLRTDNMOD |
| 1.20.R | RLACB_OPTS, RLACB_PORT, RLFACFTDSC, RLFACNAME, RLFC_LINE, RLFC_PORTTYP, RLFID2NAME |
| 1.21.R | RLACSR_LDM, RLACSR_USR, RLARALTFRL, RLARGP, RLARPORT, RLARSCRN, RLARSEGSIG, RLARTCM, RLARTM, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFC_LINE, RLFC_PORTTYP, RLFC_TRUNK, RLFID2NAME, RLPGGPMAP, RLRC_UNIDX, RLRC_UNRMK, RLRCNETGRP, RLRCTGRPRK, RLRT_MPG, RLRT_TG, RLRT_TRKG, RLTD_CODE, RLTD_SCHED, RLTRMFEATS, RLUN_ONRMK, RLUNCNFLCT, RLUNDPINFO, RLUNDTRE, RLUNNSC, RLUNOFFON, RLUNON_DI, RLUNONOFF, RLUNSDS |
| 1.22.R | RLCF_LDN, RLCF_LTM, RLCF_OPTS, RLCFPF_LTM, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFC_LINE, RLFC_PORTTYP, RLFID2NAME, RLISATGRP, RLLTSBPORT, RLMHG_CF, RLPGGPMAP, RLRC_PGRPRMK, RLRC_SGPDN, RLRCFTRKEY, RLRT_DNTRAN, RLRT_MHG, RLRTDN_MHG, RLSHTERM |
| 1.23.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDN_FEATS, RLFACFTDSC, RLFACIDS, RLFACNAME, RLFC_LINE, RLFC_PORTTYP, RLFID2NAME, RLIS_LINE, RLPU_LTM, RLPU_PORT, RLPUG_SM, RLPUO_ROUT, RLPUO_TM, RLPUT_TM, RLRC_DNINFO, RLRC_OEINFO, RLRC_PGMU, RLRT_DNTRAN, RLRT_MHG, RLSHTERM |
| 1.24.R | RLCW_OPTS, RLCW_PORT, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFC_PORTTYP, RLFID2NAME, RLLTSBPORT |
| 1.25.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDR_LTM, RLDR_OPTS, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFC_PORTTYP, RLFID2NAME, RLLTSBPORT, RLPGGPMAP, RLRT_MHG, RLSHTERM |
| 1.26.R | RLACSR_LDM, RLARGP, RLBFGMATCH, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACNAME, RLFACTODSC, RLFC_LINE, |

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| | |
|---|---|
| | RLFC_PORTTYP, RLFC_TRUNK, RLFID2NAME, RLICR, RLID_OPTS, RLID_PORT, RLIDP_ACT, RLIDP_AERT, RLIDP_CNFL, RLIDP_DTRE, RLIDP_ERT, RLIDP_GP, RLIDP_ICOM, RLIDPRDTRE, RLIDPRICOM, RLLTSBPORT, RLMS_IDP, RLPGGPMAP, RLRC_OEINFO, RLRCFTRKEY, RLRT_MPG, RLSMADDSC, RLTD_CODE, RLTD_SCHED, RLTD_TM, RLTRMFEATS |
| 1.27.R | RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFC_LINE, RLFC_PORTTYP, RLFID2NAME, RLLTSBPORT, RLMWCFDFL, RLMWPORT |
| 1.28.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACLUST, RLFACNAME, RLFC_PORTTYP, RLFID2NAME, RLLTSBPORT, RLPF_GP, RLPF_PORT, RLRT_TM |
| 1.29.R | RLAPPFGRP, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDN_FEATS, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFC_PORTTYP, RLFID2NAME, RLGROUP_PORT, RLLTSBPORT, RLMHG_TGSR, RLMODATT, RLMS_TGSR, RLPGGPMAP, RLRT_DNTRAN, RLRT_GPSF, RLRT_MCTR, RLRT_MPG, RLRT_ROUTING, RLRT_TG, RLRT_TGID, RLRT_TRKG, RLRTDN_MHG, RLSHTERM, RLTG_CFDFL, RLTG_LTMER |
| 1.30.R | RLACCT_GP, RLACCT_PRT, RLACCT_TM, RLARGP, RLARPORT, RLARTM, RLAT_GRP, RLAT_OPTS, RLAT_PORT, RLATH_GRP, RLATH_PRT, RLATH_TM, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDN_FEATS, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFACTODSC, RLFC_CARR, RLFC_LINE, RLFC_PORTTYP, RLFC_TRUNK, RLFID2NAME, RLID_OPTS, RLID_PORT, RLID2NAME, RLIDP_ACT, RLNAME2ID, RLSC_OPTS, RLSHTERM, RLTD_CODE, RLTD_SCHED, RLTD_TM, RLTRMFEATS |
| 1.31.R | RLACCT_GP, RLCOI_USE, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACIDS, RLFACNAME, RLFC_LINE, RLFC_PORTTYP, RLFID2NAME, RLID_PORT, RLPGGPMAP, RLPP_LTM, RLPP_OPTS, RLRT_MHG, RLSHTERM |
| 1.32.R | RLDN_PSCM, RLFC_DIRCON, RLFC_LINE, RLFC_PORTTYP, RLLPT_PT, RLLTM_PORT, RLRC_ALPHO, RLRC_OEINFO, RLRC_OLTH, RLRC_QIDX, RLRCFTRKEY, RLRT_DNTRAN, RLRTFTRKEY, RLSCM_NSCM |
| 1.33.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, RLFC_LINE, RLFC_PORTTYP, RLFC_TRUNK, RLFID2NAME, RLLTSBPORT, RLMDR_GP, RLMDR_OPTS, RLMDR_PORT, RLRT_MPG |
| 1.37.R | RLBFGMATCH, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDN_FEATS, RLEDS_GRP, RLEDS_PORT, RLFACNAME, RLFC_LINE, RLFC_PORTTYP, RLFID2NAME, RLGROUP_PORT, RLIS_LINE, RLIS_TERM, RLLPT_PT, RLLTM_PORT, RLLTSBPORT, RLMDS_GRP, RLMDS_OPTS, RLMDS_PORT, RLPGGPMAP, RLRT_DNTRAN, RLRT_MHG, RLSHTERM, RLSPID, RLXCVR_CKT |
| 1.38.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDN_FEATS, RLEDS_CF, RLEDS_GRP, RLEDS_OPTS, RLEDS_PORT, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFC_PORTTYP, RLFID2NAME, RLLID_CF, RLMDS_GRP, RLMDS_PORT, RLSHTERM, RLSPID |
| 1.41.R | RLATH_FCOS, RLATH_GRP, RLATH_PRT, RLATH_TM, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFC_LINE, RLFC_PORTTYP, RLFC_TRUNK, RLFID2NAME, RLMS_CFT, RLTD_CODE, RLTD_SCHED |
| 1.42.R | RLACCT_CF, RLACCT_GP, RLACCT_PRT, RLACCT_RTG, RLACCT_TM, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFC_LINE, RLFC_PORTTYP, RLFC_TRUNK, RLFID2NAME, RLMS_CFT, |

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| | |
|---|---|
| | RLTD_CODE, RLTD_SCHED |
| 1.45.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, |
| | RLFACIDS, RLFACLUST, RLFACNAME, RLFC_LINE, RLFID2NAME, |
| | RLICM_1LST, RLICM_CFDF, RLICM_GRP, RLICM_TERM |
| 1.46.R | RLAT_GRP, RLAT_ID, RLAT_PORT, RLAT_PRTGP, RLATCNTMSK, |
| | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, |
| | RLFACIDS, RLFACLUST, RLFACNAME, RLFC_LINE, RLFID2NAME, |
| | RLICX_ICI, RLIS_TERM, RLMHG_TGSR, RLPGGPMAP, RLRC_OEINFO, |
| | RLRT_MHG, RLRT_ROUTING, RLTD_CODE, RLTD_SCHED |
| 1.47.R | RLAC_CF, RLAC_OPTS, RLAC_PORT, RLDB_AMGPD, RLDB_GPDUS, |
| | RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, |
| | RLFACRMKS, RLFC_LINE, RLFC_PORTTYP, RLFID2NAME |
| 1.48.R | RLAR_CF, RLAR_OPTS, RLAR_PORT, RLDB_AMGPD, RLDB_GPDUS, |
| | RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, |
| | RLFACRMKS, RLFC_LINE, RLFC_PORTTYP, RLFID2NAME |
| 1.49.R | RLACSR_GRP, RLACSR_LDM, RLACSR_OPT, RLACSR_USR, |
| | RLARPORT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, |
| | RLDSLEQUIP, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, |
| | RLFACRMKS, RLFC_LINE, RLFID2NAME, RLID_PORT, RLLPT_PT, |
| | RLNOCCODE, RLOFFICECODE, RLRT_DNTRAN, RLRTDNMOD, RLSPID, |
| | RLTRMFEATS |
| 1.50.R | RLRCACSR_Q |
| 1.51.R | RLAD1B_IDP, RLAD1E_IDP, RLAD1S_IDP, RLAD2B_IDP, RLAD2E_IDP, |
| | RLAD2S_IDP, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, |
| | RLFACADDSC, RLFACFTDSC, RLFACNAME, RLFC_LINE, |
| | RLFC_PORTTYP, RLFID2NAME, RLID2NAME, RLLTSBPORT, |
| | RLNAME2ID, RLPGGPMAP, RLRT_MPG, RLSC_OPTS, RLSC_PORT, |
| | RLSMADDSC, RLSMFACIDS, RLTRMFEATS |
| 1.60.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_CARR, RLFC_LINE, |
| | RLFC_PORTTYP, RLLTSBPORT, RLNOCCODE, RLRC_LCC, |
| | RLRC_OEINFO, RLRT_DNTRAN, RLRTDNMOD, RLSCD_SCRN |
| 1.60.V | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_CARR, RLFC_LINE, |
| | RLSCD_SCRN |
| 1.61.R | RLASI_GP, RLASI_PORT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, |
| | RLFACFTDSC, RLFACNAME, RLFC_PORTTYP, RLFID2NAME, RLRT_TM |
| 1.62.R | RLBCL_CF, RLBCL_GRP, RLBCL_LTM, RLBCL_MHTG, RLBCL_OPTS, |
| | RLBCLLTH, RLDN_FEATS, RLFACFTDSC, RLFACIDS, RLFACLUST, |
| | RLFACNAME, RLFACRMKS, RLFC_LINE, RLFC_PORTTYP, |
| | RLFID2NAME, RLOFFICECODE, RLRC_OEINFO, RLRT_DNTRAN, |
| | RLRT_MHG, RLSHTERM |
| 1.64.R | RLASP_LTM, RLASP_PORT, RLASPN_OPT, RLASPNPORT, |
| | RLASPO_OPT, RLASPT_OPT, RLDN_FEATS, RLFACFTDSC, |
| | RLFACLUST, RLFACNAME, RLFC_LINE, RLFC_PORTTYP, RLFID2NAME, |
| | RLGROUP_PORT, RLLTSBPORT, RLNOCCODE, RLNS_TRIG, |
| | RLRT_DNTRAN, RLRT_MHG, RLRT_MPG, RLRTDNMOD, RLTRMFEATS |
| 2.5.V | RLFC_LINE, RLFC_PORTTYP, RLRC_LCC, RLRC_OEINFO |
| 3.3.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_LINE, |
| | RLFC_PORTTYP, RLGROUP_PORT, RLMDC_GRP, RLMODATT, |
| | RLNOCCODE, RLPGGPMAP, RLRC_MSUSR, RLRC_MULTIDN, |
| | RLRC_OEINFO, RLRC_PGRPRMK, RLRC_SGPDN, RLRT_DNTRAN, |
| | RLRT_MCTR, RLRT_MHG, RLRTDN_MHG, RLRTDNMOD |
| 3.5.R | RLAPPFGRP, RLATCNTMSK, RLBCL_MHTG, RLBIKYPM, RLCF_LDN, |
| | RLCLIDAT, RLCMAPDATA, RLDB_AMGPD, RLDB_GPDUS, |
| | RLDB_IMGPD, RLDTGSTRAN, RLFACIDS, RLFACLUST, RLFACNAME, |
| | RLFC_LINE, RLFC_PORTTYP, RLFC_TRUNK, RLFEATBN, RLFID2NAME, |
| | RLGROUP_PORT, RLHUNTKEYS, RLICX_ICI, RLIS_LINE, RLIS_TERM, |
| | RLISATGRP, RLISATLMT, RLISATMBR, RLISBILLDN, RLKEYLIST, |

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| | RLLSFHCA, RLLSFHCF, RLLSFHCR, RLLSFHDA, RLMASK_BLF, RLMDC_GRP, RLMDR_PORT, RLMDS_GRP, RLMHG_CF, RLMHG_OPTS, RLMHG_TGSR, RLMODATT, RLMONI_BLF, RLMONTOQ, RLMS_QAN, RLMS_QU, RLNOCCODE, RLPBG_INFO, RLPBG_SFG, RLPGGPMAP, RLPP_LTM, RLPR_DNTRAN, RLPSBILLDN, RLPSGP_PRT, RLPSMHGDNR, RLPSX25LN, RLQU_CFDFL, RLQU_CWL, RLQU_DLY, RLQU_OS, RLQU_SM, RLRC_ICITG, RLRC_MMINF, RLRC_MSUSR, RLRC_MULTIDN, RLRC_OEINFO, RLRC_PGRPRMK, RLRC_SERVM, RLRC_SGPDN, RLRC_TNMLH, RLRCTGRPRK, RLREMBV_RI, RLRT_DNTRAN, RLRT_EDN, RLRT_MCTR, RLRT_MEM, RLRT_MHG, RLRT_MPG, RLRT_TRKG, RLRTDN_MHG, RLRTDNMOD, RLRTDNMPG, RLRTGRPDN, RLRTICITK, RLRTISATMP, RLSHTERM, RLSIMSUPRT, RLTGCNTMSK, RLTGTOATT, RLTREE_BLF |
| 3.6.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_PORTTYP, RLHUNTKEYS, RLKEYLIST, RLRT_MHG |
| 3.7.V | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_PORTTYP, RLGROUP_PORT, RLHUNTKEYS, RLRC_SGPDN, RLRT_MHG |
| 3.9.R | RLBIKYPM, RLFC_PORTTYP, RLGROUP_PORT, RLHUNTKEYS, RLISRMBLST, RLISTMBLST, RLMODATT, RLRC_OEINFO, RLRMBLIST, RLRT_MHG, RLTMBLIST |
| 3.40.R | RLDB_AMGPD, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFC_PORTTYP, RLFC_TRUNK, RLFID2NAME, RLGROUP_PORT, RLICX_ICI, RLISATGRP, RLISATMBR, RLISATMOD, RLISQU_CWL, RLMODATT, RLMONTOQ, RLMS_QAN, RLMS_QU, RLPGGPMAP, RLQU_CFDFL, RLQU_CWL, RLQU_DLY, RLQU_OGTOS, RLQU_OS, RLQU_PRI, RLQU_RGBK, RLQU_SM, RLQU_TCFDF, RLRT_MHG, RLRT_SFG, RLRT_TRKG |
| 3.43.R | RLFC_PORTTYP, RLGROUP_PORT, RLICX_ICI, RLISATMBR, RLRC_ICITG, RLRT_MHG, RLRT_TRKG, RLRTICITK, RLRTISATMP |
| 4.1.R | RLDA_TIMER, RLRC_LCC, RLRT_SCRNING |
| 4.2.R | RLAD1B_IDP, RLAD1E_IDP, RLAD1S_IDP, RLAD2B_IDP, RLAD2E_IDP, RLAD2S_IDP, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACADDSC, RLFACIDS, RLFACRMKS, RLID2NAME, RLNAME2ID, RLSC_PORT, RLSMADDSC, RLSMFACIDS |
| 4.3.R | RLDN_FEATS, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFC_LINE, RLFC_PORTTYP, RLFC_TRUNK, RLFID2NAME, RLID_PORT, RLIDP_ACT, RLRCFTRKEY, RLRTFTRKEY, RLTRMFEATS |
| 4.4.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_PORTTYP, RLGROUP_PORT, RLRT_DNTRAN, RLRT_TG, RLRTDN_MHG |
| 4.5.R | RLACCT_GP, RLAPPFGRP, RLARGP, RLAT_GRP, RLATH_GRP, RLDA_AMBIG, RLDAPRLDGT, RLDAPRLFNL, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFACTODSC, RLFC_CARR, RLFID2NAME, RLID2NAME, RLIDP_ACT, RLIDP_CNFL, RLIDP_DTRE, RLIDP_GP, RLNAME2ID, RLRC_DAS, RLRC_PDIT, RLTD_CODE, RLTD_SCHED, RLTD_TM |
| 4.6.V | RLMODATT, RLTD_CODE, RLTD_SCHED |
| 4.8.V | RLFACIDS, RLFACNAME, RLFACTODSC, RLFID2NAME, RLID2NAME, RLNAME2ID, RLTD_CODE, RLTD_SCHED |
| 4.9.R | RLCLIDAT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_LINE, RLGROUP_PORT, RLLPT_PT, RLLTSBPORT, RLNOCCODE, RLRT_DNTRAN, RLRT_EDN, RLRT_EMRNM, RLRT_ROUTING, RLRT_TRKG |
| 4.9.V | RLCLIDAT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLNOCCODE, RLRT_EMRNM |
| 4.10.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLNOCCODE, RLRC_OEINFO, RLRT_DNTRAN, RLRT_MHG, RLRTGRPDN |
| 4.10.V | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLNOCCODE, |

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| | RLRC_OEINFO, RLRT_DNTRAN, RLRT_MHG, RLRTGRPDN |
| 4.11.V | RLFC_PORTTYP |
| 4.12.R | RLFACFTDSC, RLFACNAME, RLFID2NAME, RLMBG2TG, RLRCMBGNM, RLRT_TG, RLRT_TRKG |
| 4.14.R | RLCDNCHAN, RLCF_LDN, RLDB_AMGPD, RLDSLEQUIP, RLFC_LINE, RLGROUP_PORT, RLHUNTKEYS, RLISATGRP, RLISTMBLST, RLLSFHCA, RLLSFHCF, RLLSFHCR, RLLSFHDA, RLLTSBPORT, RLMHG_CF, RLMODATT, RLMONI_BLF, RLNOCCODE, RLPGGPMAP, RLPR_DNTRAN, RLPSGP_PRT, RLPSLDN_GP, RLPSMHGDNR, RLPSPRT_GP, RLPSX25LN, RLRC_MULTIDN, RLRC_PGRPRMK, RLRC_TNMLH, RLRCRTMOD, RLREMBV_RI, RLRT_DNTRAN, RLRT_LGMEM, RLRT_MEM, RLRT_MHG, RLRT_MPG, RLRT_ROUTING, RLRT_SPECRI, RLRTDN_MHG, RLRTDNMOD, RLRTDNMPG, RLTMBLIST, RLTREE_BLF |
| 4.16.V | RLLOSS_TBL |
| 4.17.R | RLAPPFGRP, RLATH_GRP, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFID2NAME, RLRC_ATHCT, RLRT_ROUTING, RLTD_CODE, RLTD_SCHED |
| 4.18.R | RLATH_CODE, RLATH_GRP, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME, RLRC_ATHCT |
| 4.19.R | RLATH_FCOS, RLATH_GRP, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME |
| 4.20.V | RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME, RLRC_ATHCT |
| 4.21.R | RLACCT_GP, RLACCT_PRT, RLAPPFGRP, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME, RLRT_ROUTING |
| 4.22.R | RLACCT_PRT, RLACCT_RTG, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME |
| 4.23.R | NULL |
| 4.24.R | RLAPPFGRP, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFID2NAME, RLICM_1LST, RLICM_GRP, RLICM_TERM |
| 4.26.V | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLMASK_BLF, RLNOCCODE, RLRT_MHG |
| 4.27.V | RLNOCCODE, RLRTDNMOD, RLTREE_BLF |
| 4.28.V | RLATCNTMSK, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLNOCCODE, RLRT_MHG, RLTGCNTMSK |
| 4.29.R | RLATCNTMSK, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_LINE, RLFC_PORTTYP, RLIS_LINE, RLMASK_BLF, RLMONI_BLF, RLNOCCODE, RLRC_DNINFO, RLRC_MMINF, RLRC_OEINFO, RLRC_PGRPRMK, RLRCTGRPRK, RLRT_DNTRAN, RLRT_MHG, RLRT_TRKG, RLRTDNMOD, RLTGCNTMSK, RLTREE_BLF |
| 4.36.V | RLFID2NAME, RLMDC_GRP, RLRC_MSUSR |
| 4.37.R | RLCMAPDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME, RLMDC_GRP, RLMDS_GRP, RLMS_AP, RLRC_MSUSR |
| 4.38.R | RLCMAPDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLEDS_GRP, RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME, RLMS_AP |
| 4.39.R | RLRT_DNTRAN, RLRTDNMOD |
| 4.46.R | RLAPPFGRP, RLAT_GRP, RLAT_ID, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME, RLICX_ICI, RLRT_MHG, RLRT_ROUTING |
| 4.47.R | RLACSR_GRP, RLCMAPDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME, RLMS_ACSR |
| 4.48.R | RLBFGMATCH, RLDN_FEATS, RLFACFTDSC, RLFACIDS, RLFACLUST, |

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| | RLFACNAME, RLFC_LINE, RLFC_PORTTYP, RLFID2NAME, RLGENSCA, RLGENSCF, RLGENSCR, RLGENSDA, RLIS_LINE, RLLSF_CF, RLLSFHCA, RLLSFHCF, RLLSFHCR, RLLSFHDA, RLLSFSCA, RLLSFSCF, RLLSFSCR, RLLSFSDA, RLLTM_PORT, RLLTSBPORT, RLMHG_CF, RLMS_CFT, RLNOCCODE, RLPGGPMAP, RLRC_OEINFO, RLRT_DNTRAN, RLRT_MHG, RLRTDNMOD, RLSCA_LTM, RLSCF_LTM, RLSCR_LTM, RLSDA_LTM, RLSMSEQIDX |
| 4.61.R | RLAPPFGRP, RLASI_GP, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACLUST, RLFACNAME, RLFACRMKS, RLFID2NAME, RLMS_CFT, RLRT_ROUTING |
| 4.62.R | RLBCL_GRP, RLCMAPDATA, RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME |
| 4.63.R | RLRCTGRPRK, RLREMBV_RI, RLRT_MHG, RLRT_ROUTING, RLRT_TRKG, RLTGTOATT |
| 4.64.R | RLSCP_SCRN |
| 4.65.R | RLFC_HOTEL, RLFC_NAME, RLOFFICECODE, RLRT_DNTRAN, RLRTDN_MHG, RLRTDNMOD |
| 5.1.R | RLALIASPC, RLAMCMCID, RLAMTKGP, RLAPPFGRP, RLBCL_MHTG, RLBCL_OPTS, RLCKTDATA, RLCLIDAT, RLCLU_CLIX, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDTGSTRAN, RLE911PSAP, RLEDSLGPRT, RLEDSLTRKG, RLESCO, RLFACIDS, RLFACNAME, RLFACRMKS, RLFC_ANOUNCE, RLFC_CARR, RLFC_FGBCARR, RLFC_OPERTRK, RLFC_OPRTK, RLFC_PORTTYP, RLFC_TCITG, RLFC_TDIRC, RLFC_TRUNK, RLFCCAVCTK, RLFCNPAMAP, RLFID2NAME, RLGROUP_PORT, RLHUNTKEYS, RLICX_ICI, RLIMTGRPS, RLIPCS_PCI, RLISATGRP, RLISSCCOF, RLIST_PARM, RLKEYLIST, RLLAB7_PCI, RLLAB7PRT, RLMBG2TG, RLMFC_TYPE, RLMODATT, RLMS_QAN, RLMS_QU, RLNET_INFO, RLNMDCOFC, RLNSFMAP, RLOSPS_INT, RLPCI7_LAB, RLPCTRKTXC, RLPF_TKDN, RLPP_TRUNK, RLPRIGRP, RLPRT7LAB, RLPSCUG_IIC, RLPSIPTST, RLPSL2THRS, RLPSL3TRKG, RLPSRI_PSN, RLPSTRUNKS, RLQKEYPORT, RLQU_DLY, RLQU_OGTOS, RLQU_PRI, RLQU_RGBK, RLQU_SM, RLQU_TCFDF, RLR_HOLEQ, RLR_QKEYPT, RLRC_CIRMK, RLRC_EQLOC, RLRC_IDX, RLRC_QKEY, RLRC_TKTXC, RLRC_TRK, RLRCNETGRP, RLRCNSFMAP, RLRCTGFEAT, RLRCTGRPRK, RLRT_GPSF, RLRT_MCRT, RLRT_MHG, RLRT_ROUTING, RLRT_SCRNING, RLRT_TGBL, RLRT_TRKG, RLRT_WBRTX, RLRTANNGRP, RLSC_RANGE, RLSM_TRKG, RLSPABILLDN, RLSPABNDSCRN, RLTERA_MS, RLTGTOATT, RLTM_ATTT, RLTM_DTRT, RLTM_TMTH, RLTN_DEF, RLTRMFEATS, RLVALOFFC, RLWBTBLOCK |
| 5.2.R | RLCKTDATA, RLDCHNPRI, RLDSLEQUIP, RLFC_TRUNK, RLMSPRTLST, RLMSSELLST, RLPRI_SM, RLPRIFACS, RLPRIGRP, RLRC_DFIMAP, RLRC_LOCEQ, RLSMCONF |
| 5.3.R | RLEQUIPDSL, RLGROUP_PORT, RLPCTRKTXC, RLPSGP_PRT, RLRC_TKTXC, RLRC_TRK |
| 5.4.R | RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFID2NAME, RLRCTGFEAT |
| 5.5.R | RLAC_TKCT, RLBTBPG, RLCGA_STAT, RLCGA_TRANS, RLCKTDATA, RLCMTPATH, RLDA_TIMER, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDCHNPRI, RLDNU2EEC, RLDS1_PT, RLDSLEQUIP, RLDSLGDATA, RLEDSLDCHN, RLEDSLGPRT, RLEDSLTRKG, RLEQUIPDSL, RLFAC_PROV, RLFACIDS, RLFACNAME, RLFC_ANOUNCE, RLFC_OPERTRK, RLFC_OPRTK, RLFC_PORTTYP, RLFC_TCITG, RLFC_TDIRC, RLFC_TRUNK, RLFCCAVCTK, RLFID2NAME, RLFRBC_SVC, RLGROUP_PORT, RLIMTGRPS, |

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| | RLIMTRKS, RLKEY_TALK, RLLAB6_PCI, RLLAB6PRT, RLLAB7PRT, RLLPRT_FW, RLLPRT_POS, RLLPT_PT, RLLTM_CLST, RLLTM_PORT, RLMODATT, RLMSAPHSS, RLMTBTST, RLNSFMAP, RLPCI_PRT, RLPCI6_LAB, RLPCTRKTXC, RLPF_CPSL, RLPF_SLCP, RLPF_TKDN, RLPGGPMAP, RLPHCHSTAT, RLPICB, RLPP_MEM, RLPRI_SM, RLPRIFACS, RLPRIGRP, RLPRT_PCI, RLPRT6LAB, RLPRT7LAB, RLPSGP_PRT, RLPSHFINFO, RLPSIPTST, RLPSIUPIDB, RLPSL3TRKG, RLPSLINKPT, RLPSMAPPVC, RLPSPRT_GP, RLPSPVCINF, RLPSTRK_L2, RLPSTRUNKS, RLPSU_TRKG, RLPSX75TRK, RLQKEYPORT, RLQU_CFDFL, RLQU_DLY, RLR_HOLEQ, RLR_QKEYPT, RLRC_ALPHO, RLRC_DAS, RLRC_DFIMAP, RLRC_EQLOC, RLRC_IDX, RLRC_LOCEQ, RLRC_OLTH, RLRC_QKEY, RLRC_TEMP, RLRC_TKTXC, RLRC_TRK, RLRCNSFMAP, RLRCTGFEAT, RLRCTGRPRK, RLRT_FIXEDRI, RLRT_MCRT, RLRT_ROUTING, RLRT_TRKG, RLSA_RMVTK, RLSC_RANGE, RLSMCONF, RLSMPSU, RLSPABILLDN, RLSPABNDSCRN, RLSPAENXX, RLTALK_KEY, RLTGCNTMSK, RLTLWSR, RLTR8CONV, RLTSCOUNT, RLUNIT_CKT, RLWBTBLOCK |
| 5.6.V | RLDSLGDATA, RLEQUIPDSL, RLPP_MEM |
| 5.7.V | RLCKTDATA, RLFC_PORTTYP, RLFRBC_SVC, RLGROUP_PORT, RLPGGPMAP, RLPP_MEM |
| 5.8.V | RLCKTDATA, RLDSLGDATA, RLEQUIPDSL, RLPP_MEM, RLUNIT_CKT |
| 5.9.V | RLAC_TKCT, RLBTBPG, RLCGA_STAT, RLCGA_TRANS, RLCKTDATA, RLCMTPATH, RLDA_TIMER, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDCHNPRI, RLDNU2EEC, RLDS1_PT, RLDSLEQUIP, RLDSLGDATA, RLEDSLDCHN, RLEDSLGPRT, RLEDSLTRKG, RLEQUIPDSL, RLFAC_PROV, RLFACIDS, RLFACNAME, RLFC_ANOUNCE, RLFC_OPERTRK, RLFC_OPRTK, RLFC_PORTTYP, RLFC_TCITG, RLFC_TDIRC, RLFC_TRUNK, RLFCCAVCTK, RLFID2NAME, RLFRBC_SVC, RLGROUP_PORT, RLIMTGRPS, RLIMTRKS, RLKEY_TALK, RLLAB6_PCI, RLLAB6PRT, RLLAB7PRT, RLLPRT_FW, RLLPRT_POS, RLLPT_PT, RLLTM_CLST, RLLTM_PORT, RLMODATT, RLMSAPHSS, RLMTBTST, RLNSFMAP, RLPCI_PRT, RLPCI6_LAB, RLPCTRKTXC, RLPF_CPSL, RLPF_SLCP, RLPF_TKDN, RLPGGPMAP, RLPHCHSTAT, RLPICB, RLPP_MEM, RLPRI_SM, RLPRIFACS, RLPRIGRP, RLPRT_PCI, RLPRT6LAB, RLPRT7LAB, RLPSGP_PRT, RLPSHFINFO, RLPSIPTST, RLPSIUPIDB, RLPSL3TRKG, RLPSLINKPT, RLPSMAPPVC, RLPSPRT_GP, RLPSPVCINF, RLPSTRK_L2, RLPSTRUNKS, RLPSU_TRKG, RLPSX75TRK, RLQKEYPORT, RLQU_CFDFL, RLQU_DLY, RLR_HOLEQ, RLR_QKEYPT, RLRC_ALPHO, RLRC_DAS, RLRC_DFIMAP, RLRC_EQLOC, RLRC_IDX, RLRC_LOCEQ, RLRC_OLTH, RLRC_QKEY, RLRC_TEMP, RLRC_TKTXC, RLRC_TRK, RLRCNSFMAP, RLRCTGFEAT, RLRCTGRPRK, RLRT_FIXEDRI, RLRT_MCRT, RLRT_ROUTING, RLRT_TRKG, RLSA_RMVTK, RLSC_RANGE, RLSMCONF, RLSMPSU, RLSPABILLDN, RLSPABNDSCRN, RLSPAENXX, RLTALK_KEY, RLTGCNTMSK, RLTLWSR, RLTR8CONV, RLTSCOUNT, RLUNIT_CKT, RLWBTBLOCK |
| 5.10.R | RLLTM_CLST, RLRCTGRPRK |
| 5.11.R | RLBFGMATCH, RLCKTDATA, RLCPNBN_CF, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDN_FEATS, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFC_LINE, RLFC_PORTTYP, RLFC_TRUNK, RLFID2NAME, RLGROUP_PORT, RLIS_LINE, RLLPT_PT, RLLTM_BFG, RLLTM_CLST, RLLTM_PORT, RLLTSBPORT, RLMHG_TGSR, RLMODATT, RLNOCCODE, RLPGGPMAP, RLRC_ALPHO, RLRC_OEINFO, RLRTDNMOD, RLSHTERM, RLTRMFEATS |
| 5.12.R | RLDN_FEATS, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, |

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|---|---|
| | RLFACRMKS, RLFC_LINE, RLFID2NAME, RLIS_LINE, RLMHG_TGSR, RLTRMFEATS |
| 5.13.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLPSGP_PRT, RLPSMAPPVC, RLPSPSN_RI, RLPSPVCINF, RLPSX75TRK, RLRCTGRPRK |
| 5.14.R | RLPSCUG_IIC, RLPSL3TRKG, RLSMCONF |
| 5.15.R | RLPSTNI_ID, RLSMCONF |
| 5.16.R | RLRCTGRPRK, RLUTTRK |
| 5.17.V | RLPRI_SM, RLPRIGRP, RLPRISRVGP |
| 5.21.R | RLACSR_LDM, RLACSR_USR, RLARALTFRL, RLARGP, RLARPORT, RLARSCRN, RLARSEGSIG, RLARTCM, RLARTM, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFC_LINE, RLFC_PORTTYP, RLFC_TRUNK, RLFID2NAME, RLPGGPMAP, RLRC_UNIDX, RLRC_UNRMK, RLRCNETGRP, RLRCTGRPRK, RLRT_MPG, RLRT_TG, RLRT_TRKG, RLTD_CODE, RLTD_SCHED, RLTRMFEATS, RLUN_ONRMK, RLUNCNFLCT, RLUNDPINFO, RLUNDTRE, RLUNNSC, RLUNOFFON, RLUNON_DI, RLUNONOFF, RLUNSDS |
| 5.24.R | RLCW_OPTS, RLCW_PORT, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFC_PORTTYP, RLFID2NAME, RLLTSBPORT |
| 5.26.R | RLACSR_LDM, RLARGP, RLBFGMATCH, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACNAME, RLFACTODSC, RLFC_LINE, RLFC_PORTTYP, RLFC_TRUNK, RLFID2NAME, RLICR, RLID_OPTS, RLID_PORT, RLIDP_ACT, RLIDP_AERT, RLIDP_CNFL, RLIDP_DTRE, RLIDP_ERT, RLIDP_GP, RLIDP_ICOM, RLIDPRDTRE, RLIDPRICOM, RLLTSBPORT, RLMS_IDP, RLPGGPMAP, RLRC_OEINFO, RLRCFTRKEY, RLRT_MPG, RLSMADDSC, RLTD_CODE, RLTD_SCHED, RLTD_TM, RLTRMFEATS |
| 5.27.R | RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFC_LINE, RLFC_PORTTYP, RLFID2NAME, RLLTSBPORT, RLMWCFDFL, RLMWPORT |
| 5.28.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACLUST, RLFACNAME, RLFC_PORTTYP, RLFID2NAME, RLLTSBPORT, RLPF_GP, RLPF_PORT, RLRT_TM |
| 5.29.R | RLAPPFGRP, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDN_FEATS, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFC_PORTTYP, RLFID2NAME, RLGROUP_PORT, RLLTSBPORT, RLMHG_TGSR, RLMODATT, RLMS_TGSR, RLPGGPMAP, RLRT_DNTRAN, RLRT_GPSF, RLRT_MCTR, RLRT_MPG, RLRT_ROUTING, RLRT_TG, RLRT_TGID, RLRT_TRKG, RLRTDN_MHG, RLSHTERM, RLTG_CFDFL, RLTG_LTMER |
| 5.30.R | RLACCT_GP, RLACCT_PRT, RLACCT_TM, RLARGP, RLARPORT, RLARTM, RLAT_GRP, RLAT_OPTS, RLAT_PORT, RLATH_GRP, RLATH_PRT, RLATH_TM, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDN_FEATS, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFACTODSC, RLFC_CARR, RLFC_LINE, RLFC_PORTTYP, RLFC_TRUNK, RLFID2NAME, RLID_OPTS, RLID_PORT, RLID2NAME, RLIDP_ACT, RLNAME2ID, RLSC_OPTS, RLSHTERM, RLTD_CODE, RLTD_SCHED, RLTD_TM, RLTRMFEATS |
| 5.31.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACLUST, RLFACNAME, RLFC_PORTTYP, RLFC_TRUNK, RLFID2NAME, RLPGGPMAP, RLPP_OPTS, RLPP_TRUNK, RLRT_TRKG |
| 5.33.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, RLFC_LINE, RLFC_PORTTYP, RLFC_TRUNK, RLFID2NAME, RLLTSBPORT, RLMDR_GP, RLMDR_OPTS, RLMDR_PORT, RLRT_MPG |
| 5.34.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLEDSLGPRT, |

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| | RLEDSLTRKG, RLFACIDS, RLFACNAME, RLFC_CARR, RLNSFMAP, RLRCNSFMAP, RLRT_MCRT, RLRT_SFG, RLRT_TRKG |
| 5.34.V | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLEDSLGPRT, RLNSFMAP, RLRCNSFMAP |
| 5.41.R | RLATH_FCOS, RLATH_GRP, RLATH_PRT, RLATH_TM, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFC_LINE, RLFC_PORTTYP, RLFC_TRUNK, RLFID2NAME, RLMS_CFT, RLTD_CODE, RLTD_SCHED |
| 5.42.R | RLACCT_CF, RLACCT_GP, RLACCT_PRT, RLACCT_RTG, RLACCT_TM, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFC_LINE, RLFC_PORTTYP, RLFC_TRUNK, RLFID2NAME, RLMS_CFT, RLTD_CODE, RLTD_SCHED |
| 5.46.R | RLIMTRKS, RLRT_TRKG |
| 5.51.R | RLAD1B_IDP, RLAD1E_IDP, RLAD1S_IDP, RLAD2B_IDP, RLAD2E_IDP, RLAD2S_IDP, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACADDSC, RLFACFTDSC, RLFACNAME, RLFC_LINE, RLFC_PORTTYP, RLFID2NAME, RLID2NAME, RLLTSBPORT, RLNAME2ID, RLPGGPMAP, RLRT_MPG, RLSC_OPTS, RLSC_PORT, RLSMADDSC, RLSMFACIDS, RLTRMFEATS |
| 5.64.R | RLASP_LTM, RLASP_PORT, RLASPN_OPT, RLASPNPORT, RLASPO_OPT, RLASPT_OPT, RLDN_FEATS, RLFACFTDSC, RLFACLUST, RLFACNAME, RLFC_LINE, RLFC_PORTTYP, RLFID2NAME, RLGROUP_PORT, RLLTSBPORT, RLNOCCODE, RLNS_TRIG, RLRT_DNTRAN, RLRT_MHG, RLRT_MPG, RLRTDNMOD, RLTRMFEATS |
| 6.1.R | RLAGENTID, RLCQMASK, RLCQPARM, RLSTPARM |
| 6.2.V | RLCQMASK |
| 6.3.R | RLAGENTID, RLSTPARM |
| 6.4.R | RLACD_DN, RLCQMASK, RLCQPARM, RLDAA_DN, RLRT_ROUTING, RLRT_TRKG, RLSTPARM |
| 6.5.R | RLACD_DN, RLACDDISP, RLDAA_DN |
| 6.6.V | RLACD_POS, RLBFGMATCH, RLDN_FEATS, RLFC_LINE, RLIS_TERM |
| 6.7.R | RLACD_DN, RLACDDISP, RLCQPARM, RLDAA_DN, RLDB_AMGPD, RLFC_ANOUNCE, RLGROUP_PORT, RLQVDSTDN, RLQVVECTOR, RLRT_ROUTING, RLSTPARM |
| 6.8.R | RLQVDSTDN |
| 6.9.R | RLRC_IDX |
| 6.10.R | RLACD_DN, RLACDDISP, RLAGENTID, RLCQPARM, RLDA_DIGSTRT, RLDAA_DN, RLDSLEQUIP, RLEQUIPDSL, RLFC_CARR, RLLPT_PT, RLNOCCODE, RLPR_DNTRAN, RLPSX25LN, RLQVVECTOR, RLRC_DAS, RLRC_LDIT, RLRT_DNTRAN, RLRT_MCTR, RLRT_SCRNING, RLRTDNMOD, RLSTPARM |
| 6.11.R | RLAQTE_ADP, RLAQTE_DAP, RLCKTDATA, RLDB_AMGPD, RLDGRP_RI, RLDLDSL, RLDPIDB_PT, RLDSLEQUIP, RLDSLGDATA, RLEIS_DATA, RLEIS_SM, RLEISDSL, RLEQUIPDSL, RLFC_LINE, RLFC_PORTTYP, RLISLULGC, RLLPRT_FW, RLMODATT, RLOSPSPARM, RLPHCHSTAT, RLPORT_POS, RLPSHFINFO, RLPSIUPIDB, RLRC_EQLOC, RLRC_OLTH, RLRI_DGRP, RLRIBM_SC, RLSMCONF, RLTSCOUNT, RLXNDLDSL |
| 6.15.V | RLEPO_POS, RLFC_LINE, RLFC_PORTTYP, RLGROUP_PORT, RLIS_LINE, RLIS_TERM, RLLPT_PT, RLMODATT, RLNOCCODE, RLPGGPMAP, RLRT_DNTRAN, RLRTDNMOD |
| 7.1.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME, RLGROUP_PORT, RLPF_GP, RLPF_PARM, RLRC_IDX, RLRCPFAKEY, RLRT_MCRT, RLRT_ROUTING |
| 7.2.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLRT_MCRT, RLRT_SFG, RLRT_TGID |
| 7.3.R | RLAPPFGRP, RLDA_DIGSTRT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDTGSTRAN, RLE911_SFG, RLFACIDS, RLFACNAME, |

| | |
|---|---|
| | RLFACRMKS, RLFC_PORTTYP, RLFC_TRUNK, RLFEATBN, RLFID2NAME, RLHUNTKEYS, RLICR, RLICRSM, RLICX_ICI, RLIS_TERM, RLISATGRP, RLISSCCOF, RLKEYLIST, RLMDR_GP, RLMODATT, RLMS_PFA, RLMS_QAN, RLMS_QU, RLQU_DLY, RLQU_OGTOS, RLQU_PRI, RLQU_RGBK, RLQU_SM, RLQU_TCFDF, RLRC_ICRTN, RLRC_SCRN, RLRC_SFG, RLRT_MCRT, RLRT_MHG, RLRT_ROUTING, RLRT_SFG, RLRT_TGBL, RLRT_TRKG, RLSFG_ASFC, RLTGTOATT |
| 7.4.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLMODATT, RLRT_DNTRAN, RLRT_MCRT, RLRT_MCTR |
| 7.5.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLEDSLTRKG, RLRT_TRKG, RLSC_RANGE |
| 7.10.V | RLFC_PORTTYP |
| 7.11.R | RLAPP2TSP, RLCKTDATA, RLDS1_PT, RLDSCPORTS, RLFC_PORTTYP, RLFC_TRUNK, RLNAILUP, RLRC_EQLOC, RLRT2DS1, RLTSP2APP |
| 7.12.R | RLDB_AMGPD, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFC_PORTTYP, RLFC_TRUNK, RLFID2NAME, RLGROUP_PORT, RLICX_ICI, RLISATGRP, RLISATMBR, RLISATMOD, RLISQU_CWL, RLMODATT, RLMONTOQ, RLMS_QAN, RLMS_QU, RLPGGPMAP, RLQU_CFDFL, RLQU_CWL, RLQU_DLY, RLQU_OGTOS, RLQU_OS, RLQU_PRI, RLQU_RGBK, RLQU_SM, RLQU_TCFDF, RLRT_MHG, RLRT_SFG, RLRT_TRKG |
| 7.13.V | RLEQUIPDSL, RLPSGP_PRT, RLPSPVCINF, RLPSTRK_L2, RLPSX75TRK, RLRCTGRPRK |
| 7.14.V | RLPSGP_PRT, RLPSLINKPT |
| 7.41.V | RLCDFI_CON, RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDSLEQUIP, RLFC_PORTTYP, RLHDFI_CON, RLLNKP_LS, RLMODATT, RLPGGPMAP, RLPICB, RLPIDB, RLPSPRT_GP, RLPSX25LN, RLRC_DFIMAP, RLRC_DLTP, RLRC_EQLOC, RLRC_LOCEQ, RLRDFI_CON, RLSDL_ST |
| 7.42.V | RLCKTDATA, RLDSLEQUIP, RLFC_PORTTYP, RLLNKP_LS, RLPGGPMAP, RLPSPRT_GP, RLPSX25LN, RLRC_PGRPRMK, RLSDL_ST |
| 8.1.R | GL_5PST, GL_BRIT, GL_CPE, GL_OSO, GL_SPA, GL_TINSP, GL_VPST, GL1ARPL, GL2SPDT, GL2SPST, GL8HRFQ, GL8HRSC, GL8HRST, GL800_DAS, GL911DTIM, GLAC_INH, GLACGFHT, GLACMTIM, GLACPGT, GLACPLN, GLACPTO, GLACTPRMPT, GLAINBSYNA, GLALITDUR, GLALITHTOD, GLALITMTOD, GLALITRNG, GLALITTYP, GLALLABN, GLALLSUPV, GLALTSIGSM, GLALW_TTF, GLAMADNS1, GLAMAERLOG, GLAMAOPT, GLANI_SM, GLANSTIM, GLAP_OPTION, GLAPSDN, GLAPTDUR, GLAPTFRI, GLAPTHTOD, GLAPTMON, GLAPTMTOD, GLAPTSAT, GLAPTSUN, GLAPTTHR, GLAPTTUE, GLAPTWED, GLASI_ON, GLASIDEF10, GLASPNELTI, GLATMLAYR, GLAUTO_GDM, GLBCL3MNTH, GLBCL3MXTH, GLBLORSND, GLBRCSACD, GLBRIRDTA, GLBTCHINH, GLBTCHITV, GLBTCHTOD, GLC1MONITTR, GLC2MONITTR, GLC3MONITTR, GLC4MONITTR, GLCADALEN, GLCADBLEN, GLCALOC, GLCALSM, GLCARRID, GLCARTONE, GLCCS, GLCDTMFOVR, GLCICP_BLK, GLCLFTIM, GLCLNHTOD, GLCLNINH, GLCM0VINT, GLCM1VINT, GLCMC_CONN, GLCMCONV, GLCMDTHRES, GLCND_TIM, GLCNIGI, GLCOFFLEN, GLCOINLIST, GLCONG1QCP, GLCONG2QCP, GLCONLEN, GLCOTPARAM, GLCOTREPT, GLCOTTIM, GLCP2DUMMY, GLCP3DUMMY, GLCP4DUMMY, GLCP5DUMMY, GLCP6DUMMY, GLCP7DUMMY, GLCP8DUMMY, GLCP9DUMMY, GLCP10DUMMY, GLCP11DUMMY, GLCP12DUMMY, GLCP13DUMMY, GLCP14DUMMY, GLCP15DUMMY, GLCPERLEAK, GLCPERTHRS, GLCRAT, GLCRITALRM, GLCSMONITR, GLCST_DAS, GLCUTOVER, GLCWALERT, GLCWCONF, |

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GLCWDEFANN, GLCWDEFOPT, GLCWDEFTIM, GLCWFLTIM, GLCWHLDANN, GLCWHLDTIM, GLCWOPTANN, GLDAYLIGHT, GLDCOWAIT, GLDFLTSRV, GLDIDTO, GLDIGTM, GLDIGZERO, GLDISPDN10, GLDLN, GLDLNEQ, GLDLTACTN, GLDN_PRIV, GLDRCOUNTTYPE, GLDRON, GLDSCBK, GLDSK_SZE, GLDSNOPT, GLDSSPEED, GLDTO_O, GLE9CESID, GLE911APID, GLE911DAS, GLE911LNSFG, GLE911OP, GLE911SCNX, GLE911SEC, GLE911TKSFG, GLEADOPT, GLEAOVTIME, GLEATIME, GLEC_ACT, GLESA_TIME, GLESCSHARD, GLESPNORM, GLEXINBND, GLEXMDT, GLEXPORT, GLFAIL_ID, GLFC_T1, GLFCRTHRSH, GLFGDPH, GLFL_AGE, GLFSESDEF, GLGBRSND, GLGRSRSND, GLGURSND, GLHIHLD, GLHIRNG, GLHITLK, GLHMMISC, GLHMSUM, GLHOLIDAY, GLHOMENPA, GLHRIWTOF, GLHRLY, GLIBUSY, GLICSUPV, GLICTERM, GLIDPDESEP, GLIGNSCRN, GLILC, GLILEC, GLIMLT2, GLINAC_TIM, GLINCWINK, GLINH_SNPA, GLINHPREX, GLINIC, GLINPA, GLISBRPPMW, GLISDAM, GLISTNPPMW, GLISTWPPMW, GLISVAM, GLIVL_MDII, GLIWLEC, GLJIP, GLLATA_NUM, GLLCMLEN, GLLDCWTRMT, GLLDPNSCID, GLLDPOFF, GLLDPONSC, GLLDPTNSC, GLLNDAS, GLLNP_DFR, GLLNPDFRSC, GLLOCABN, GLLOCALCOIN, GLLOCANS, GLLOCSUPV, GLMAJALRM, GLMAN_DI, GLMAX_FM_RC, GLMAXCONV, GLMAXTKGS, GLMEM_SZE, GLMINALRM, GLMISMA, GLMJR_MDII, GLMSEXC, GLMSLUBK, GLMSRTBR, GLMSSTAT, GLMSSYDY, GLMSTGBK, GLMSTMCI, GLMSTMR, GLMSUSGTYP, GLMTTST, GLMXMON, GLNAITOLL, GLNETREL, GLNRGSLN, GLNSDBAVL, GLNST_ALL, GLNXTLDTOD, GLOCTLOPEN, GLOCTLTONE, GLODBAMA, GLOFCAR, GLOFRDEFTTY, GLOFRDURATION, GLOFRENAB, GLOFRFRI, GLOFRHRSTART, GLOFRMON, GLOFRSAT, GLOFRSUN, GLOFRTHUR, GLOFRTUE, GLOFRWED, GLOFTYP, GLONEND, GLOPAMA, GLOPC, GLOR_RESLD, GLOR_UNBLD, GLORGBLTRG, GLORGNATRG, GLORIG1DAS, GLORIG2DAS, GLOTEND, GLOVLP_SIZE, GLP1SILC, GLP2SILC, GLPBGMOD, GLPCTFI, GLPDNIC, GLPIC2, GLPIC3, GLPIC4, GLPMINT, GLPMMAX, GLPMRAT, GLPMTIM, GLPOFFLOSS, GLPOTENT, GLPPIDLE, GLPRIMALG, GLPRODUCT, GLPRT_TTF, GLPRTCD, GLPRTMI, GLPSEUDO_CARR, GLPSINPA, GLPSN, GLPVN_ANI, GLPVN_OFC, GLPVN_RESP, GLQCKTHRHD, GLRALMMOD, GLRALMTMG, GLRBPSC, GLRCD_3PT1, GLRCRCRIT, GLRCRMAJOR, GLRCRMINOR, GLRCVBS, GLRDTADAS, GLRDTAPIC, GLRDTASRNX, GLRES_O, GLRETRANS, GLRETRY, GLRETRYSRV, GLREV_MAN, GLRFOWFLG, GLRIMAX, GLRINGTOT, GLRLCTIM, GLRLGTIM, GLRMSOPT, GLRNMOPT, GLRPBTIM, GLRSCLONG, GLRSCSHORT, GLRTCD_OFC, GLRTCDALRM, GLRTGMD, GLRVQTHRSH, GLSALOSS, GLSCC_ROP, GLSCP_DAS, GLSCP_TREC, GLSEGSZ, GLSENS1, GLSENS2, GLSETRKGP, GLSF1DUMMY, GLSF2DUMMY, GLSF3DUMMY, GLSF4DUMMY, GLSF5DUMMY, GLSF6DUMMY, GLSF7DUMMY, GLSF8DUMMY, GLSF9DUMMY, GLSF10DUMM, GLSF11DUMM, GLSF12DUMM, GLSF15DUMM, GLSF16DUMM, GLSFI_SW, GLSIGIOPT, GLSITRIG, GLSPECABN, GLSPEECH, GLSPLOFC, GLSPTWCAC, GLSSP, GLSST, GLST_MNT, GLSTRIGMAX, GLSWFACPM, GLSWPM, GLT1OFN, GLT301, GLT303, GLT306, GLT310, GLT316, GLT320, GLTCAPCIC, GLTCW_ANSW, GLTCW_DISC, GLTD2DISP, GLTDISC, GLTDWIND, GLTDXCARID, GLTERA_DSK, GLTHR_MDII, GLTI_T1, GLTIMEZONE, GLTM_RESLD, GLTM_RT101, GLTM_UNBLD, GLTMDA_INX, GLTNIC, GLTOLABN, GLTOLSUPV, GLTPCS_ALT,

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|---|---|
| | GLTQTIM, GLTRDTIM, GLTRKBILL, GLTSCREEN, GLTSTNSC, GLTSTRC, GLUBLRSND, GLUNBRESSC, GLUSTWCAMA, GLUSTWCCHRG, GLUSTWCFID, GLVIRTSW, GLVT_PST, GLZMICLATA, NONE, RLCMAPDATA, RLDB_AMGPD, RLE911_SFG, RLE911SA, RLMODATT, RLRC_DAS, RLRT_FIXEDRI, RLRT_SCRNING, RLSMCONF |
| 8.2.R | RLNOCCODE, RLOFFICECODE, RLRC_OFRMK, RLRT_FIXEDRI |
| 8.3.R | RLMODATT, RLRXSCHD |
| 8.4.R | RLIDAM |
| 8.5.R | RLDA_TIMER |
| 8.6.R | RLTATYPE, RLTONETIME |
| 8.7.R | RLFC_PORTTYP, RLPICB, RLRC_EQLOC, RLSIMSUPRT |
| 8.8.R | RLCC_00X, RLCC_ONPA |
| 8.9.R | NONE, RLAC_CQDET, RLAC_DESTX, RLCNH_CAS, RLCTINFO, RLDA_DIGSTRT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_CARR, RLFC_HOTEL, RLFC_OPRTK, RLGROUP_PORT, RLICNH_CAS, RLICRH_CAS, RLLANGMENU, RLOLSR, RLPGGPMAP, RLRCTGRPRK, RLSERVDATA, RLSERVDES, RLSMCONF, RLTCCID |
| 8.10.R | RLCGA_STAT, RLCGA_TRANS, RLCGATYPE, RLFC_PORTTYP |
| 8.10.V | RLCGA_STAT, RLCGA_TRANS, RLCGATYPE, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLPGGPMAP |
| 8.11.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_PORTTYP, RLMODATT, RLRBP_SC |
| 8.12.R | RLCKTDATA, RLCLIDAT, RLMODATT, RLRBP_SC, RLRC_EQLOC |
| 8.13.R | RLBTBPG, RLCGA_STAT, RLCGA_TRANS, RLCGATYPE, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_PORTTYP, RLFCHOTMOT, RLGROUP_PORT, RLHUNTKEYS, RLISLC_ALM, RLMTBS96, RLPF_SLCP, RLPGGPMAP, RLPGTC, RLQU_CFDFL, RLQU_CWL, RLRC_SERVM, RLRC_SFG, RLRCLK_SC, RLRT_MHG, RLRT_TGBL, RLS96DIODE, RLSIMSUPRT, RLTLWSR |
| 8.14.R | RLCKTDATA, RLCLIDAT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLMODATT, RLRC_EQLOC, RLRC_LOCEQ |
| 8.15.R | NONE, RLCCSFEATS, RLMODATT, RLRC_DAS |
| 8.16.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLRATEPERD |
| 8.17.R | RLAPPL_PLAT, RLDS_APP, RLDS_SSN, RLGSM_NET, RLGSM_OPC, RLMLT_LATA, RLMODATT, RLSSN_USER |
| 8.18.R | NONE, RLLASSCONV, RLMODATT, RLSMCONF |
| 8.19.R | RLCHKLST |
| 8.20.R | RLACPFX |
| 8.21.R | NONE, RLDISP_CF, RLLASSCONV |
| 8.22.R | NONE |
| 8.23.R | RLFLEX_ANI |
| 8.24.R | RLRC_LCC, RLRT_SCRNING, RLSCRIDXPA |
| 8.25.R | RLNPASPLIT |
| 8.26.R | RLDAS_SCRN |
| 8.27.R | RLMODATT |
| 8.28.R | NONE |
| 8.30.R | RLDB_AMGPD |
| 8.31.R | NONE |
| 8.32.R | RLSRVCDESC |
| 8.40.R | RLMODATT |
| 8.41.R | RLACCTOWN, RLDB_AMGPD, RLOLNSDEF |
| 8.42.R | RLAPPL_PLAT, RLCMTPATH, RLDS_APP, RLGSM_OPC, RLTRAN_GP |
| 8.49.R | RLRC_IDX |
| 8.50.R | RLANIDX000, RLANIDX001, RLANIDX002, RLANIDX003, RLANIDX004, RLANIDX005, RLANIDX006, RLANIDX007, RLANIDX008, RLANIDX009, RLANIDX010, RLANIDX011, RLANIDX012, RLANIDX013, RLANIDX014, RLANIDX015, RLANIDX016, RLANIDX017, RLANIDX018, RLANIDX019, RLANIDX020, RLANIDX021, RLANIDX022, RLANIDX023, RLANIDX024, RLANIDX025, RLANIDX026, RLANIDX027, RLANIDX028, RLANIDX029, RLANIDX030, RLANIDX031, RLANIDX032, RLANIDX033, RLANIDX034, RLANIDX035, RLANIDX036, RLANIDX037, RLANIDX038, RLANIDX039, RLANIDX040, RLANIDX041, RLANIDX042, RLANIDX043, RLANIDX044, RLANIDX045, RLANIDX046, RLANIDX047, RLANIDX048, RLANIDX049, |

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| | RLANIDX050, RLANIDX051, RLANIDX052, RLANIDX053, RLANIDX054, RLANIDX055, RLANIDX056, RLANIDX057, RLANIDX058, RLANIDX059, RLANIMOD, RLMODATT |
| 8.51.R | RLANIMOD, RLDB_AMGPD, RLFACTODSC, RLFC_TRUNK, RLNS_TRIG, RLRC_CIRMK, RLRC_DAS, RLRCTGRPRK, RLTD_CODE, RLTD_SCHED |
| 8.52.R | RLANIDX000, RLANIDX001, RLANIDX002, RLANIDX003, RLANIDX004, RLANIDX005, RLANIDX006, RLANIDX007, RLANIDX008, RLANIDX009, RLANIDX010, RLANIDX011, RLANIDX012, RLANIDX013, RLANIDX014, RLANIDX015, RLANIDX016, RLANIDX017, RLANIDX018, RLANIDX019, RLANIDX020, RLANIDX021, RLANIDX022, RLANIDX023, RLANIDX024, RLANIDX025, RLANIDX026, RLANIDX027, RLANIDX028, RLANIDX029, RLANIDX030, RLANIDX031, RLANIDX032, RLANIDX033, RLANIDX034, RLANIDX035, RLANIDX036, RLANIDX037, RLANIDX038, RLANIDX039, RLANIDX040, RLANIDX041, RLANIDX042, RLANIDX043, RLANIDX044, RLANIDX045, RLANIDX046, RLANIDX047, RLANIDX048, RLANIDX049, RLANIDX050, RLANIDX051, RLANIDX052, RLANIDX053, RLANIDX054, RLANIDX055, RLANIDX056, RLANIDX057, RLANIDX058, RLANIDX059, RLNS_TRIG, RLRC_CIRMK, RLRC_DAS, RLRCTGRPRK, RLRT_SCRNING, RLTDXCARTB |
| 8.53.R | RLLDPTNSC, RLRC_DAS, RLRC_LDIT, RLRT_SCRNING, RLTGNTNSC |
| 8.54.R | RLLDPTNSC, RLRCTGRPRK, RLRT_TRKG, RLTGNTNSC |
| 8.55.R | RLRC_IDX |
| 8.56.R | NONE |
| 8.57.R | RLIIDIGITS, RLLDPTNSC, RLNS_TRIG, RLRC_CIRMK, RLRC_DAS, RLRT_SCRNING |
| 8.58.R | RLANI_RMK, RLANIDX000, RLANIDX001, RLANIDX002, RLANIDX003, RLANIDX004, RLANIDX005, RLANIDX006, RLANIDX007, RLANIDX008, RLANIDX009, RLANIDX010, RLANIDX011, RLANIDX012, RLANIDX013, RLANIDX014, RLANIDX015, RLANIDX016, RLANIDX017, RLANIDX018, RLANIDX019, RLANIDX020, RLANIDX021, RLANIDX022, RLANIDX023, RLANIDX024, RLANIDX025, RLANIDX026, RLANIDX027, RLANIDX028, RLANIDX029, RLANIDX030, RLANIDX031, RLANIDX032, RLANIDX033, RLANIDX034, RLANIDX035, RLANIDX036, RLANIDX037, RLANIDX038, RLANIDX039, RLANIDX040, RLANIDX041, RLANIDX042, RLANIDX043, RLANIDX044, RLANIDX045, RLANIDX046, RLANIDX047, RLANIDX048, RLANIDX049, RLANIDX050, RLANIDX051, RLANIDX052, RLANIDX053, RLANIDX054, RLANIDX055, RLANIDX056, RLANIDX057, RLANIDX058, RLANIDX059, RLANIMOD, RLLDPINDX |
| 8.59.R | RLANI_RMK, RLANIMOD, RLDB_AMGPD, RLFACTODSC, RLFC_TRUNK, RLLDPINDX, RLNS_TRIG, RLRC_CIRMK, RLRC_DAS, RLRCTGRPRK, RLTD_CODE, RLTD_SCHED |
| 8.60.R | RLANNC_APL, RLANNC_DIG, RLPHRASES |
| 8.61.R | RLANNC_APL, RLANNC_HDR, RLDACC_TRT, RLDB_AMGPD, RLOLSR, RLPHRASES, RLSERVDATA |
| 8.62.R | RLANNC_APL, RLANNC_TRL, RLPHRASES |
| 8.63.R | RLANNC_APL, RLANNC_DIG, RLANNC_HDR, RLANNC_TRL, RLFCNPAMAP, RLOLSR, RLPHRASES |
| 8.64.R | RLANNC_APL, RLMODATT, RLPHRASES |
| 8.65.R | RLDSP_MSG |
| 8.66.R | RLDB_AMGPD, RLLANG_TBL, RLTCCID |
| 8.67.R | RLDB_AMGPD, RLPHR_LANG, RLPHRASES |
| 8.70.R | RLALT_HDR, RLANNC_APL, RLDB_AMGPD, RLPHRASES |
| 8.71.R | RLALT_TRL, RLANNC_APL, RLDB_AMGPD, RLPHRASES |
| 8.72.R | RLALT_PLNG, RLDB_AMGPD, RLTCCID |
| 8.74.R | RLRCANI_II, RLTFANI_II |
| 9.1.R | RLACD_DN, RLDA_DIGSTRT, RLDAA_DN, RLDAPRLDGT, RLDAPRMDGT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLESCO, RLRC_CON, RLRC_DAS, RLRC_DGT, RLRC_FNL, RLRC_IDX, RLRC_INDIT, RLRC_LDIT, RLRC_PDIT, RLSTINFO |
| 9.2.R | RLDA_AMBIG, RLDAPRLDGT, RLDAPRLFNL, RLFACFTDSC, RLFACIDS, |

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| | RLFACLUST, RLFACNAME, RLFID2NAME, RLNS_TRIG, RLRC_IDX, RLRC_PDIT, RLRC_PDRMK, RLRT_ROUTING |
| 9.3.R | RLDA_AMBIG, RLDA_CONFLCT, RLDAPRMDGT, RLDAPRMFNL, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_CARR, RLFC_WZ1, RLMODATT, RLNMIMPDGTS, RLNOCCODE, RLNS_TRIG, RLOFFICECODE, RLRC_CON, RLRC_DAS, RLRC_DGT, RLRC_FNL, RLRC_IDX, RLRC_LDIT, RLRC_LDRMK, RLRC_RDIT, RLRT_FIXEDRI, RLRT_ROUTING, RLTMTSC |
| 9.4.R | RLDA_3DIGIT, RLRC_CVRMK, RLRC_DAS |
| 9.5.R | RLDAPRLDGT, RLDAPRLFNL, RLNMIMPDGTS, RLNOCCODE, RLNS_TRIG, RLOFFICECODE, RLRC_IDRMK, RLRC_IDX, RLRC_INDIT, RLRT_ROUTING |
| 9.6.R | RLDA_AMBIG, RLDA_CONFLCT, RLDAPRMDGT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLNS_TRIG, RLRC_CON, RLRC_DGT, RLRC_FNL, RLRC_IDDD, RLRC_IDX, RLRC_LDIT, RLRC_LDRMK, RLRT_ROUTING, RLTCCID |
| 9.7.R | RLDI_COMP, RLFC_CARR, RLFC_FGBCARR, RLRC_CDRMK |
| 9.8.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLSCD_SAC |
| 9.9.R | RLDA_AMBIG, RLDA_CONFLCT, RLDAPRMDGT, RLDAPRMFNL, RLFC_WZ1, RLMODATT, RLNOCCODE, RLNS_TRIG, RLOFFICECODE, RLRC_CON, RLRC_DGT, RLRC_FNL, RLRC_RDIT, RLRC_RDRMK, RLRT_FIXEDRI, RLRT_ROUTING, RLTMTSC |
| 9.10.R | RLAPPFGRP, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, RLFC_CARR, RLFID2NAME, RLIDP_ACT, RLIDP_AERT, RLIDP_CNFL, RLIDP_DTRE, RLIDP_ERT, RLIDP_GP, RLIDP_ICOM, RLIDPRDTRE, RLIDPRICOM, RLMS_IDP, RLRC_IDIDX |
| 9.11.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME, RLIDP_ACT, RLIDP_AERT, RLIDP_GP |
| 9.12.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME, RLIDP_ICOM |
| 9.13.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME, RLIDP_ACT, RLIDP_CNFL, RLIDP_DTRE, RLIDP_GP, RLIDP_ICOM, RLRC_IDIDX |
| 9.15.R | RLDA_AMBIG, RLDAPRMDGT, RLDAPRMFNL, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_CARR, RLFC_WZ1, RLNOCCODE, RLNS_TRIG, RLOFFICECODE, RLRC_CON, RLRC_DGT, RLRC_FNL, RLRC_IDX, RLRC_LDIT, RLRC_LDRMK, RLRT_FIXEDRI, RLRT_POLY, RLRT_ROUTING, RLTMTSC |
| 9.16.R | RLFCCC_ISC |
| 9.17.R | RLFCEAINFO |
| 9.18.R | RLFCPCC_CC |
| 9.20.R | RLARGP, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACIDS, RLFACLUST, RLFACNAME, RLFID2NAME, RLRC_UNIDX, RLRC_UNRMK, RLUNCNFLCT, RLUNDPINFO, RLUNDTRE, RLUNNSC, RLUNOFFON, RLUNSDS |
| 9.21.R | RLARSCRN, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACIDS, RLFACLUST, RLFACNAME, RLFID2NAME, RLRC_UNIDX, RLRC_UNRMK, RLUNCNFLCT, RLUNDPINFO, RLUNDTRE, RLUNNSC, RLUNOFFON, RLUNSDS |
| 9.22.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACIDS, RLFACLUST, RLFACNAME, RLFID2NAME, RLRC_UNIDX, RLUNDPINFO, RLUNOFFON |
| 9.23.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACIDS, RLFACLUST, RLFACNAME, RLFID2NAME, RLRC_UNIDX, RLUN_ONRMK, RLUNDPINFO, RLUNON_DI, RLUNONOFF |
| 9.24.V | RLDA_AMBIG, RLDA_CONFLCT, RLDAPRLDGT, RLDAPRLFNL, RLDAPRMDGT, RLDAPRMFNL, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFC_CARR, RLFC_WZ1, RLFID2NAME, RLMODATT, RLNMIMPDGTS, |

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| | RLNOCCODE, RLNS_TRIG, RLOFFICECODE, RLRC_CON, RLRC_DAS, RLRC_DGT, RLRC_FNL, RLRC_IDRMK, RLRC_IDX, RLRC_INDIT, RLRC_LDIT, RLRC_LDRMK, RLRC_PDIT, RLRC_PDRMK, RLRC_RDIT, RLRT_FIXEDRI, RLRT_ROUTING, RLTMTSC |
| 9.25.R | RLDA_CONFLCT, RLDAPRMDGT, RLDAPRMFNL, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLMODATT, RLRC_CON, RLRC_DAS, RLRC_DGT, RLRC_FNL, RLRC_IDX, RLRC_LDIT, RLRC_LDRMK |
| 9.26.R | RLDB_AMGPD, RLFACNAME, RLIDPRICOM |
| 9.27.R | RLDB_AMGPD, RLFACNAME, RLIDP_GP, RLIDPRDTRE, RLIDPRICOM, RLRC_IDIDX |
| 9.35.R | RLNS_TRIG, RLRT_SCRNING |
| 9.36.R | RLLRNTBL |
| 9.40.R | RLE911SA, RLESCO, RLESN_MAP, RLESNTRAN, RLRC_DAS |
| 9.41.R | RLDA_DIGSTRT, RLESCO, RLESNTRAN, RLRCTGRPRK |
| 10.1.R | RLFC_CARR, RLRC_EISNM, RLRCTGRPRK, RLRT_FIXEDRI, RLRT_ROUTING, RLRT_TRKG, RLSRV_DEST, RLTATYPE |
| 10.2.R | RLCTINFO, RLCV_DSTDN, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFCRSMCAR, RLOFFICECODE, RLPSPSN_RI, RLPSRI_PSN, RLRC_EISNM, RLRCRTIRMK, RLRCTGRPRK, RLRT_DTRTX, RLRT_FIXEDRI, RLRT_ROUTING, RLRT_SCRNING, RLRT_TRKG, RLRT_WBRTX, RLSERVDATA, RLSRV_DEST, RLSTINFO |
| 10.3.R | RLACD_DN, RLCRI_CRN, RLCRN_CRI, RLDAA_DN, RLDB_AMGPD, RLDNNTWK, RLFC_CARR, RLFC_DIOPR, RLFC_FGBCARR, RLFC_OPRTK, RLFCRSMCAR, RLOCNTWK, RLRC_CIRMK, RLSTINFO, RLTATYPE, RLTPR_CC, RLTPR_NPA |
| 10.4.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACNAME, RLFC_CARR, RLFC_TRUNK, RLFID2NAME, RLGROUP_PORT, RLRT_MCRT, RLRT_POLY, RLRT_ROUTING, RLRT_SFG |
| 10.5.R | RLAPPFGRP, RLARALTFRL, RLARGP, RLARSCRN, RLARSEGSIG, RLARTCM, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME, RLGPID_NET, RLNET_GPID, RLRC_UNIDX, RLRC_UNRMK, RLRT_ROUTING, RLUN_ONRMK, RLUNCNFLCT, RLUNDPINFO, RLUNDTRE, RLUNNSC, RLUNOFFON, RLUNON_DI, RLUNONOFF, RLUNSDS |
| 10.6.R | RLARGP, RLARSCRN, RLCHRGIDXEXP, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACIDS, RLFACNAME, RLFID2NAME, RLNOCCODE, RLRT_MCRT |
| 10.7.R | RLARSEGSIG, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFID2NAME, RLRT_MCRT, RLRT_ROUTING |
| 10.8.R | RLARALTFRL, RLARGP, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFID2NAME |
| 10.9.R | RLARGP, RLARTCM, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFID2NAME |
| 10.10.R | RLACD_DN, RLCHRGIDXEXP, RLDAA_DN, RLDB_AMGPD, RLFC_COINCHG, RLFC_DIOPR, RLFC_OPRTK, RLFCRSMCAR, RLNOCCODE, RLOFFICECODE, RLOP_ID, RLRC_LCC, RLRC_SCRN, RLRT_ROUTING, RLRT_SCRNING, RLSCROAR, RLSTINFO |
| 10.11.R | RLCHGTBL, RLCHRGIDXEXP, RLRC_CGIDX |
| 10.12.R | RLAMCALL, RLCHRGIDXEXP |
| 10.13.R | RLCHRGIDXEXP, RLFC_COINCHG |
| 10.14.R | RLCHGTBL, RLCHRGIDXEXP, RLFC_COINCHG, RLGETCHT |
| 10.15.R | RLGETCHT |
| 10.16.R | RLAMCMCID |
| 10.17.R | RLANNC_APL, RLANNC_HDR, RLANNC_TRL, RLRCTGRPRK, RLRT_ROUTING, RLRT_TRKG, RLSSP_ANN |
| 10.18.R | RLAMCC_FAM |
| 10.19.R | RLANNC_APL, RLDA_DIGSTRT, RLDB_GPDUS, RLFACIDS, |

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| | RLFACNAME, RLFACRMKS, RLFID2NAME, RLIDP_GP, RLRAS_IDP, RLRT_ROUTING |
| 10.20.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLSPABILLDN, RLSPABNDSCRN |
| 10.21.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLSPABILLDN, RLSPAENXX |
| 10.22.R | RLAR_LNSI, RLARSCRN |
| 10.23.R | RLCKTCDDIG |
| 10.24.R | RLDB_AMGPD, RLRT_MCRT |
| 10.25.R | RLCTINFO, RLCV_DSTDN, RLFCRSMCAR, RLPSPSN_RI, RLPSRI_PSN, RLRC_EISNM, RLRCRTIRMK, RLRCTGRPRK, RLRT_FIXEDRI, RLRT_ROUTING, RLRT_SCRNING, RLRT_TRKG, RLSERVDATA, RLSRV_DEST, RLSTINFO |
| 10.26.R | RLNW_RTIDX, RLRT_ROUTING, RLRT_TRKG |
| 10.27.R | RLFACNAME, RLGPID_NET, RLNET_GPID, RLRCNETGRP |
| 10.28.R | RLLNNODE_M |
| 10.31.R | RLDB_AMGPD, RLNOCCODE, RLOFFICECODE, RLPPSCRMKS, RLRT_MCRT, RLRT_POLY, RLRT_ROUTING, RLRTPPSCRN |
| 10.32.V | RLCOI_GPID, RLCOI_USE |
| 10.33.R | RLCOI_GPID |
| 10.34.R | RLDB_AMGPD, RLRT_POLY, RLRT_ROUTING |
| 10.35.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLPSDNICRI, RLPSRI_PSN, RLRCTGRPRK, RLRT_ROUTING |
| 10.36.R | RLNMDCOFC |
| 10.37.R | RLPROPBID, RLRT_ROUTING |
| 10.38.R | RLAPXAMAP, RLRCTGRPRK, RLRT_ROUTING |
| 10.39.R | RLRT_ROUTING, RLTDR_RTI, RLTDR |
| 10.40.R | RLRCRTIRMK, RLRCTGRPRK, RLRT_FIXEDRI, RLRT_ROUTING, RLRT_TRKG, RLRTLIST, RLSRV_DEST |
| 11.1.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLIMCOSTAT |
| 11.2.R | RLNOCCODE, RLTHCOSTAT |
| 12.1.R | RLFACFTDSC |
| 12.2.R | RLDYNACL, RLFACADDSC, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFACTODSC, RLFID2NAME |
| 12.3.R | RLACTBFG, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME |
| 12.4.V | RLAR_OPTS, RLAT_OPTS, RLCF_CF, RLCW_OPTS, RLDB_AMGPD, RLDISP_CF, RLEDS_OPTS, RLFACNAME, RLFACRMKS, RLFID2NAME, RLMDS_OPTS, RLMWCF, RLMWCFDFL, RLPUO_TM, RLPUT_TM |
| 12.5.R | RLACOFTRAN, RLATSFTBTN, RLBNFEAT, RLCF_CF, RLCW_CF, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDTGSTRAN, RLFACIDS, RLFACNAME, RLFACRMKS, RLFC_LINE, RLFC_PORTTYP, RLFEATBN, RLFID2NAME, RLICX_ICI, RLID_PORT, RLIDP_GP, RLISACOF, RLISAFIDX, RLISATGRP, RLISATLMT, RLISDTGS, RLISSATND, RLISSCCOF, RLISTGIDX, RLMWCF, RLMWCFDFL, RLRC_CFGBM, RLRC_ICRTN, RLRC_OEINFO, RLRT_MHG, RLRT_SFG, RLRT_TRKG, RLTGTOATT, RLTRMFEATS |
| 12.6.R | RLACOFTRAN, RLBNFEAT, RLCF_CF, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACIDS, RLFACNAME, RLFACRMKS, RLFC_LINE, RLFC_PORTTYP, RLFEATBN, RLFID2NAME, RLGROUP_PORT, RLID_PORT, RLIDP_ACT, RLIDP_GP, RLIS_LINE, RLISACOF, RLISAFIDX, RLISATLMT, RLLTM_PORT, RLPGGPMAP, RLRC_CFGBM, RLRC_ICRTN, RLRC_OEINFO, RLRT_DNTRAN, RLTRMFEATS |
| 12.7.R | RLBNFEAT, RLCF_CF, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDTGSTRAN, RLFACIDS, RLFACNAME, RLFACRMKS, RLFEATBN, RLFID2NAME, RLICX_ICI, RLISATGRP, RLISATLMT, RLISDTGS, RLISSCCOF, RLISTGIDX, RLRC_CFGBM, RLRC_ICRTN, RLRT_MHG, RLRT_SFG, RLRT_TRKG, RLTGTOATT |
| 12.8.R | RLACTBFG, RLBFGMATCH, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDN_FEATS, RLFACFTDSC, RLFACNAME, RLFC_LINE, RLFC_PORTTYP, RLFID2NAME, RLIS_LINE, RLLPT_PT, RLLTM_BFG, |

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| | RLLTM_PORT, RLMODATT, RLSHTERM, RLTRMFEATS |
| 12.9.R | RLACTBFG, RLBFGMATCH, RLDB_AMGPD, RLDB_GPDUS, |
| | RLDB_IMGPD, RLDN_FEATS, RLFACIDS, RLFACNAME, RLFID2NAME, |
| | RLID2NAME, RLLTM_BFG, RLNAME2ID, RLRC_LCC, RLTRMFEATS |
| 12.10.R | RLACB_CF, RLACB_OPTS, RLFACFTDSC, RLFACIDS, RLFACLUST, |
| | RLFACNAME, RLFACRMKS, RLFID2NAME, RLMS_CFT |
| 12.11.R | RLARCF, RLARTM, RLFACFTDSC, RLFACIDS, RLFACLUST, |
| | RLFACNAME, RLFACRMKS, RLFID2NAME, RLMS_CFT |
| 12.12.R | RLCF_CF, RLCF_OPTS, RLFACFTDSC, RLFACIDS, RLFACLUST, |
| | RLFACNAME, RLFACRMKS, RLFID2NAME, RLMS_CFT |
| 12.13.R | RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, |
| | RLFC_PORTTYP, RLFID2NAME, RLMS_CFT, RLPUO_CF, RLPUO_TM |
| 12.14.R | RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, |
| | RLFID2NAME, RLMS_CFT, RLMWCF, RLPUT_CF, RLPUT_TM |
| 12.15.R | RLCW_CF, RLCW_OPTS, RLFACFTDSC, RLFACIDS, RLFACLUST, |
| | RLFACNAME, RLFACRMKS, RLFID2NAME, RLMS_CFT, RLMWCFDFL |
| 12.16.R | RLDR_CF, RLDR_OPTS, RLFACFTDSC, RLFACIDS, RLFACLUST, |
| | RLFACNAME, RLFACRMKS, RLFID2NAME, RLMS_CFT |
| 12.17.R | RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, |
| | RLFID2NAME, RLID_CF, RLID_OPTS, RLMS_CFT |
| 12.18.R | RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, |
| | RLFID2NAME, RLMHG_OPTS |
| 12.19.R | RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, |
| | RLFID2NAME, RLMS_CFT, RLMWCF, RLMWCFDFL |
| 12.20.R | RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, |
| | RLFID2NAME, RLMS_CFT, RLRT_TM |
| 12.21.R | RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, |
| | RLFID2NAME, RLMS_CFT, RLTG_CF, RLTG_CFDFL |
| 12.22.R | RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, |
| | RLFID2NAME, RLMS_CFT, RLTD_CF, RLTD_TM |
| 12.31.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, |
| | RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFID2NAME, |
| | RLMS_CFT, RLPP_CF, RLPP_OPTS, RLRTPPSCRN |
| 12.33.R | RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME, |
| | RLMDR_CF, RLMDR_OPTS, RLMS_CFT |
| 12.37.R | RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, |
| | RLFID2NAME, RLMDS_CF, RLMDS_OPTS, RLMS_CFT |
| 12.38.R | RLEDS_CF, RLEDS_OPTS, RLFACFTDSC, RLFACIDS, RLFACLUST, |
| | RLFACNAME, RLFACRMKS, RLFID2NAME, RLMS_CFT |
| 12.40.R | RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, |
| | RLFC_PORTTYP, RLFID2NAME, RLGROUP_PORT, RLPGGPMAP, |
| | RLQU_CFDFL, RLQU_TCFDF |
| 12.41.R | RLATH_CF, RLATH_TM, RLFACFTDSC, RLFACIDS, RLFACLUST, |
| | RLFACNAME, RLFACRMKS, RLFID2NAME, RLMS_CFT |
| 12.42.R | RLACCT_CF, RLACCT_TM, RLFACFTDSC, RLFACIDS, RLFACLUST, |
| | RLFACNAME, RLFACRMKS, RLFID2NAME, RLMS_CFT |
| 12.43.R | RLDISP_CF, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, |
| | RLFACRMKS, RLFID2NAME, RLMS_CFT |
| 12.44.R | RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, |
| | RLFID2NAME, RLLID_CF, RLMS_CFT |
| 12.45.R | RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, |
| | RLFID2NAME, RLICM_CFDF, RLICM_GRP, RLMS_CFT |
| 12.46.R | RLAT_CF, RLAT_ID, RLAT_OPTS, RLFACFTDSC, RLFACIDS, |
| | RLFACLUST, RLFACNAME, RLFACRMKS, RLFID2NAME, RLMS_CFT, |
| | RLRT_ROUTING |
| 12.47.R | RLAC_CF, RLAC_OPTS, RLFACFTDSC, RLFACIDS, RLFACLUST, |
| | RLFACNAME, RLFACRMKS, RLFID2NAME, RLMS_CFT |
| 12.48.R | RLAR_CF, RLAR_OPTS, RLFACFTDSC, RLFACIDS, RLFACLUST, |
| | RLFACNAME, RLFACRMKS, RLFID2NAME, RLMS_CFT |
| 12.49.R | RLCOT_CF, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, |
| | RLFACRMKS, RLFID2NAME, RLMS_CFT |

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| 12.50.R | RLACSR_OPT, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFID2NAME |
| 12.51.R | RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFID2NAME, RLMS_CFT, RLSC_CF, RLSC_OPTS |
| 12.52.R | RLCPNBN_CF, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFID2NAME, RLMS_CFT |
| 12.53.R | RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME, RLHI_CF, RLMS_CFT |
| 12.54.R | RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME, RLLSF_CF, RLMS_CFT |
| 12.55.R | RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME, RLLSF_CF, RLMS_CFT |
| 12.56.R | RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME, RLLSF_CF, RLMS_CFT |
| 12.57.R | RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME, RLLSF_CF, RLMS_CFT |
| 12.58.R | RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME, RLLSF_CF, RLMS_CFT |
| 12.59.R | RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFID2NAME, RLMS_CFT, RLRND_OPTS |
| 12.61.R | RLASI_CF, RLASI_OPTS, RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME, RLMS_CFT |
| 12.62.R | RLBCL_CF, RLBCL_OPTS, RLFACFTDSC, RLFACIDS, RLFACLUST, RLFACNAME, RLFACRMKS, RLFID2NAME |
| 12.64.R | RLASPN_OPT, RLASPO_OPT, RLASPT_OPT, RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, RLFID2NAME |
| 13.1.R | NONE, NONE |
| 13.3.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACNAME, RLFC_PORTTYP, RLFID2NAME, RLGROUP_PORT, RLMODATT, RLMS_ACSR, RLMS_ATT, RLMS_CFT, RLMS_IDP, RLMS_MLHG, RLMS_PFA, RLMS_QAN, RLMS_QU, RLMS_TGSR, RLRC_MSD, RLRC_SFG, RLRT_MHG, RLRT_SFG, RLRT_TRKG |
| 13.3.V | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACNAME, RLFC_PORTTYP, RLFID2NAME, RLGROUP_PORT, RLMS_ATT, RLMS_CFT, RLMS_IDP, RLMS_MLHG, RLMS_PFA, RLMS_QAN, RLMS_QU, RLMS_TGSR, RLRC_MSD, RLRT_MHG, RLRT_SFG, RLRT_TRKG |
| 13.4.R | RLMSLUCUM |
| 13.5.R | RLMSLUCUM |
| 13.6.R | RLCKTDATA, RLMS_LUSDY, RLMS_SGEQ, RLMS_SGSDY, RLRC_EQLOC |
| 13.7.R | RLAIU2AP, RLCKTDATA, RLCLU_CLIX, RLDPC_DPCI, RLDSLEQUIP, RLFC_PORTTYP, RLGSM_NET, RLGSM_OPC, RLLS_LNK, RLMODATT, RLMSPRTLST, RLMSSELLST, RLNET_INFO, RLNOCCODE, RLOFFICECODE, RLPGTC, RLPRI_SM, RLPSU_TRKG, RLRC_EQLOC, RLRT_DNTRAN, RLRT_TRKG, RLRTDNMOD, RLSMPSU, RLUNIT_CKT |
| 13.8.R | RLAIU2AP, RLCKTDATA, RLCLU_CLIX, RLDPC_DPCI, RLDSLEQUIP, RLFC_PORTTYP, RLGSM_NET, RLGSM_OPC, RLLS_LNK, RLMODATT, RLMSPRTLST, RLMSSELLST, RLNET_INFO, RLNOCCODE, RLOFFICECODE, RLPGTC, RLPRI_SM, RLPSU_TRKG, RLRC_EQLOC, RLRT_DNTRAN, RLRT_TRKG, RLRTDNMOD, RLSMPSU, RLUNIT_CKT |
| 13.9.V | RLAIU2AP, RLCKTDATA, RLCLU_CLIX, RLDPC_DPCI, RLDSLEQUIP, RLFC_PORTTYP, RLGSM_NET, RLGSM_OPC, RLLS_LNK, RLMODATT, RLMSPRTLST, RLMSSELLST, RLNET_INFO, RLNOCCODE, RLOFFICECODE, RLPGTC, RLPRI_SM, RLPSU_TRKG, RLRC_EQLOC, RLRT_DNTRAN, RLRT_TRKG, RLRTDNMOD, RLSMPSU, RLUNIT_CKT |
| 13.10.R | RLMSPRTLST, RLMSSELLST, RLNOCCODE, RLOFFICECODE, RLRT_DNTRAN, RLRTDNMOD |
| 14.1.R | RLRT_TRKG, RLTM_ATTT, RLTM_DTRT, RLTM_TMTH |
| 14.2.R | RLFC_CARR, RLROTL_CB |

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| 14.3.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_CARR, RLFC_PORTTYP, RLGROUP_PORT, RLMTBFE, RLPGGPMAP, RLRCTGRPRK, RLRT_DNTRAN, RLRT_SPECRI, RLTLWSR, RLTM_WS101 |
| 14.4.R | RLCTTUCB, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_CARR, RLPGGPMAP, RLRCTGRPRK, RLTM_WS101 |
| 14.5.V | RLTM_WS101 |
| 14.6.R | RLCKTDATA, RLDFTST, RLFC_LINE, RLFC_PORTTYP, RLRC_EQLOC, RLRC_OEINFO |
| 14.7.R | RLCKTDATA, RLFC_PORTTYP, RLMTBFE, RLPGTC, RLPICB, RLRC_EQLOC, RLRC_PGTC |
| 14.8.R | RLRT_TRKG, RLTERA_MS |
| 14.9.R | RLATSDATA, RLATSPARAM |
| 14.10.R | RLATSPARAM |
| 14.11.R | RLRT_TRKG, RLTM_ATTT, RLTM_DTRT |
| 14.12.R | RLRT_TRKG, RLTM_ATTT, RLTM_NRLTH, RLTM_TMTH |
| 14.13.R | RLSL_LENTL, RLSL_TJOB |
| 14.14.R | RLSL_TJOB, RLSL_TSET |
| 14.15.R | RLSL_THRSH, RLSL_TJOB |
| 14.16.R | RLSL_LENTL, RLSL_SESSN, RLSL_THRSH, RLSL_TJOB, RLSL_TSET |
| 14.17.R | RLSL_SESSN, RLSL_TJOB |
| 14.18.R | RLMTB_COMP, RLRC_EQLOC |
| 15.1.R | GLCCS, NONE |
| 15.2.R | GLCCS |
| 15.3.R | GLCCS |
| 15.4.R | GLCCS |
| 15.5.R | GLCCS |
| 15.6.R | GLCCS |
| 15.7.R | GLCCS |
| 15.8.R | GLCCS |
| 15.9.R | GLCCS |
| 15.10.R | GLCCS |
| 15.11.R | GLCCS |
| 15.12.R | GLCCS |
| 15.14.R | GLCCS |
| 15.15.R | GLCCS |
| 15.16.R | GLCCS |
| 15.17.R | GLCCS |
| 15.18.R | GLCCS |
| 16.1.R | RLCKTDATA, RLDPC_DPCI, RLDSLGDATA, RLGSM_NET, RLGSM_OPC, RLINDX, RLLGRPMEM, RLLNKGRP, RLLS_GRP, RLMODATT, RLPSIUPIDB |
| 16.2.R | RLC7L3TMRS, RLDPC_DPCI, RLDPC_INFO, RLDSLEQUIP, RLDSLGDATA, RLEQUIPDSL, RLFC_PORTTYP, RLGSM_OPC, RLINDX, RLLS_GRP, RLOFF_PAR, RLOLOID |
| 16.3.R | RLALGTMRS |
| 16.4.R | RLGSM_OPC, RLMODATT |
| 16.5.R | RLAPC_INFO, RLAPCI_APC, RLCLS_LS, RLDPC_DPCI, RLDPC_INFO, RLDSLGDATA, RLFC_PORTTYP, RLINDX, RLLGRPMEM, RLLS_CLS, RLLS_CLUST, RLLS_DPC, RLLS_GRP, RLLS_LNK, RLLS_NETID, RLOFF_PAR, RLRCSDL_LG, RLSDL_ST |
| 16.6.R | RLAPC_INFO, RLAPCI_APC, RLCKT_PORT, RLCKTDATA, RLDSLEQUIP, RLDSLGDATA, RLEQUIPDSL, RLFC_PORTTYP, RLGSM_OPC, RLINDX, RLLGRPMEM, RLLNKGRP, RLLNKP_LS, RLLS_DPC, RLLS_GRP, RLLS_LNK, RLMODATT, RLPHCHSTAT, RLPHRTCONG, RLPSHFINFO, RLPSIUPIDB, RLRC_EQLOC, RLRC_LOCEQ, RLRCSDL_LG, RLSDL_ST, RLUNIT_CKT |
| 16.7.R | RLCLS_LS, RLDPC_DPCI, RLDPC_INFO, RLGSM_OPC, RLINDX, RLLS_CLS, RLLS_CLUST, RLLS_DPC, RLLS_GRP, RLLS_NETID |
| 16.8.R | RLAPCI_APC, RLCLS_LS, RLCLU_CLIX, RLDPC_DPCI, RLGSM_OPC, RLIPCS_PCI, RLLS_GRP, RLLS_NETID, RLMSPRTLST, RLMSSELLST, RLNET_INFO, RLSCCP_PC |
| 16.9.R | RLAPCI_APC, RLCLS_LS, RLCLU_CLIX, RLCLU_INFO, RLDPC_DPCI, RLGSM_OPC, RLINDX, RLIPCS_PCI, RLLS_CLUST, RLLS_GRP, |

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| | RLMSPRTLST, RLMSSELLST, RLNET_INFO, RLRC_QIDX, RLSCCP_PC |
| 16.10.R | RLAPCI_APC, RLCLS_LS, RLCLU_CLIX, RLCV_ADMGP, RLDPC_DPCI, RLDPC_INFO, RLDPC_SSN, RLGSM_NET, RLGSM_OPC, RLINDX, RLLS_DPC, RLLS_GRP, RLMSPRTLST, RLMSSELLST, RLNET_INFO, RLOFF_PAR, RLRC_QIDX |
| 16.11.V | RLDSLEQUIP, RLDSLGDATA, RLEQUIPDSL, RLGSM_OPC, RLLNKP_LS, RLMDPATH, RLMODATT |
| 16.16.R | RLCMTPATH, RLDSLGDATA, RLMHPIPE, RLMODATT, RLQPH |
| 16.17.R | RLCKTDATA, RLDSLEQUIP, RLDSLGDATA, RLEQUIPDSL, RLFC_PORTTYP, RLINDX, RLMDPATH, RLMODATT, RLPHCHSTAT, RLPSHFINFO, RLPSIUPIDB |
| 16.20.R | RLCO_TMRS, RLCV_ADMGP, RLDPCIND, RLFACIDS, RLGSM_NET, RLGSM_OPC, RLGTT_MASK, RLNET_GSM, RLTRAN_GP |
| 16.21.R | RLCO_TMRS, RLDSLGDATA, RLGSM_NET, RLGTT_0DPC, RLGTT_1DPC, RLINDX, RLNET_GSM, RLSCCPSCR, RLSCMSGPRI, RLTRAN_GP |
| 16.22.R | RLCLU_CLIX, RLCV_ADMGP, RLDPC_DPCI, RLDPC_SSN, RLDPCIND, RLGSM_NET, RLGSM_OPC, RLIND_DPC, RLNAPCNDX, RLNET_GSM, RLNET_INFO, RLRCFACIDS, RLSCCP_PC, RLSCCPSCR, RLTRAN_GP |
| 16.23.R | RLFIX_DIG, RLGSM_NET, RLGTT_MASK, RLTRAN_GP |
| 16.24.R | RLAPPL_PLAT, RLCV_ADMGP, RLDPCIND, RLGSM_NET, RLGTT_MASK, RLIND_DPC, RLNET_GSM, RLSCCPSCR, RLTRAN_GP |
| 16.25.R | RLACCGTTID, RLDPCIND, RLFIX_DIG, RLGSM_NET, RLGTT_0DPC, RLGTT_1DPC, RLGTT_MASK, RLIND_DPC, RLNET_GSM, RLRCFACIDS |
| 17.1.R | RLMODATT, RLRC_LOCEQ, RLSLNKTMS |
| 17.2.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLRC_LOCEQ, RLSPC, RLSSDLC |
| 17.3.R | RLMODATT, RLSPC, RLSSDLC |
| 17.4.R | RLSCORE, RLSNCREF |
| 17.11.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLRC_LOCEQ, RLSCORE, RLSLNKTMS |
| 17.12.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLMODATT, RLRC_LOCEQ, RLSCORE, RLSLNKTMS |
| 17.13.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLRC_LOCEQ, RLSPC |
| 17.14.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLRC_LOCEQ, RLSPC, RLSSDLC |
| 17.15.R | RLMODATT, RLSPC, RLSSDLC |
| 17.16.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLRC_LOCEQ, RLSCORE, RLSNCREF |
| 17.17.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLRC_LOCEQ, RLSMSCU |
| 17.18.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLNO_PICB, RLRC_LOCEQ, RLSCORE, RLSLNKTMS |
| 17.19.R | RLMODATT, RLNLI_LNK, RLQLPS, RLRC_QTMS, RLSCORE, RLSLNKTMS, RLSPC, RLTMSPIPE |
| 17.20.R | RLHSMRSM, RLMHPIPE, RLMODATT, RLNLI_LNK, RLNTSTYPE, RLQENDPTS, RLQLPS, RLQTYPES, RLRC_QTMS, RLSCORE, RLSPC, RLTMSPIPE |
| 17.21.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLRC_LOCEQ, RLSCORE, RLSLNKTMS, RLSMSCU, RLSNCREF, RLSPC, RLSSDLC |
| 17.22.R | RLSCORE, RLSLNKTMS |
| 17.23.R | RLLNK_USE, RLMODATT, RLNLI_LNK, RLNTSTYPE, RLSLNKTMS, RLTRCUPATH, RLTRCURMK |
| 17.24.R | RLCKT_PORT, RLCMTPATH, RLDSLEQUIP, RLDSLGDATA, RLEQUIPDSL, RLFC_PORTTYP, RLHSMRSM, RLINDX, RLMODATT, RLNLI_LNK, RLNTSTYPE, RLPSIUPIDB, RLQENDPTS, RLQLPS, RLQPH, RLQPHPIPE, RLQPORT_R, RLQTYPES, RLRC_HOLE, RLRC_QEND, RLRC_QIDX, RLRC_QTMS, RLSCORE, RLTMSPIPE, RLUNIT_CKT |
| 18.1.R | RLCGATYPE, RLCKTDATA, RLCL_MATES, RLCLIDAT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFIDB_SGN, RLHCN_RTS, RLHDFI_CON, RLHMRSMCL, RLHSMRSM, RLICL_MSK, RLMODATT, RLMODCLI, RLMS_IDP, RLMS_QAN, RLMS_SGEQ, RLMS_SGSDY, |

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| | RLMS_TGSR, RLPGGPMAP, RLRC_ALPHO, RLRC_DFIMAP, RLRC_DLTP, RLRC_EQLOC, RLRC_ILTH, RLRC_LAHOL, RLRC_LOCEQ, RLRC_LPHOL, RLRC_OLTH, RLRC_QIDX, RLRCB_HCB, RLRCRTMOD, RLRCTGRPRK, RLRDFI_CON, RLRSMCHAN, RLRSMNTS, RLRT_ROUTING, RLRTS_HCN, RLSLNKTMS, RLSMCONF, RLSMSEQIDX, RLSSDLC, RLTDR_RTI, RLTDR, RLUNITTYP |
| 18.2.R | RLCKTDATA, RLPICB, RLUNIT_CKT |
| 18.2.V | RLCKTDATA |
| 18.3.R | RLCKTDATA, RLLNK_USE, RLPICB, RLPIDB, RLUNIT_CKT |
| 18.3.V | RLCKTDATA |
| 18.4.R | RLCKTDATA, RLMODATT, RLRC_EQLOC |
| 18.4.V | RLCKTDATA, RLMODATT, RLRC_EQLOC |
| 18.5.R | RLAPP2TSP, RLCKT_REL, RLCKTDATA, RLCL_MATES, RLCLIDAT, RLFIDB_SGN, RLFPHCHNLS, RLHCN_RTS, RLHDFI_CON, RLHMRSMCL, RLHTU2RSM, RLICL_MSK, RLMODATT, RLRC_DFIMAP, RLRCB_HCB, RLRSM2HTU, RLRSMCHAN, RLRSMFAC_CON, RLRSMNTS, RLRTS_HCN, RLTSP2APP |
| 18.5.V | RLCDFI_MAP, RLCKTDATA, RLHTU2RSM, RLMODATT, RLRC_DFIMAP, RLRSM2HTU, RLRSMFAC_CON, RLUNIT_CKT |
| 18.6.V | RLCKTDATA, RLMODATT, RLPICB, RLRC_LOCEQ, RLUNIT_CKT |
| 18.7.V | RLCKTDATA, RLPIDB, RLRC_EQLOC, RLRC_LOCEQ, RLRISLUDFI, RLUNIT_CKT |
| 18.8.R | RLCLIDAT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD |
| 18.8.V | RLCLIDAT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD |
| 18.9.R | RLCDFI_CON, RLCDFI_MAP, RLCKTDATA, RLCL_MATES, RLCLIDAT, RLICL_MSK, RLMATATT, RLMODATT, RLRC_DFIMAP, RLRC_DLTP, RLRTS_RTS |
| 18.10.R | RL96DFISID, RL96SIDLRT, RLCKTDATA, RLCLIDAT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_PORTTYP, RLMODATT, RLMTBFE, RLMTBS96, RLRC_EQLOC, RLS96DIODE, RLS96EQUIP, RLS96SMTB, RLSID_DS1 |
| 18.11.R | RLCKTDATA, RLFC_LINE, RLFC_PORTTYP, RLRC_EQLOC, RLS96EQUIP |
| 18.12.R | RLCKTDATA, RLFC_PORTTYP, RLMTBFE, RLRC_EQLOC, RLS96DIODE, RLS96EQUIP, RLS96SMTB |
| 18.14.R | RLFC_PORTTYP, RLISLC_ALM |
| 18.15.R | RL96SIDLRT, RLAPP2TSP, RLCGA_STAT, RLCKT_PORT, RLCKT_REL, RLCKT2GRP, RLCKTDATA, RLCLIDAT, RLDPIDB_PT, RLDS1_PT, RLDS1SID, RLDS12RT, RLDSLEQUIP, RLDSLGDATA, RLEQUIPDSL, RLF_VPIDB, RLFC_PORTTYP, RLFTTH_SIG, RLGRP2CKT, RLMODATT, RLMTBFE, RLMTBS96, RLNAILUP, RLPHCHSTAT, RLPSHFINFO, RLRC_EQLOC, RLRC_OEINFO, RLRC_QIDX, RLRDT2UNIT, RLRT_LAPD, RLRT_MISC, RLRT2DS1, RLRTENVALM, RLS96DIODE, RLS96SMTB, RLSID_DS1, RLSMCONF, RLTR8CONV, RLTSCOUNT, RLTSP2APP, RLUNIT_CKT, RLUNIT2RDT, RLVPIDB_F |
| 18.16.R | RLCKTDATA, RLLNK_USE, RLMODATT, RLMODCLI, RLNLI_LNK, RLQLPS, RLSCORE, RLSLNKTMS, RLUNIT_CKT |
| 18.17.R | RLCKTDATA, RLLNK_USE, RLMODATT, RLNLI_LNK, RLUNIT_CKT |
| 19.1.R | RLCKTDATA, RLCLIDAT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLLUWAVG, RLMODATT, RLMS_LUSDY, RLMS_SC, RLMS_SGSDY, RLMTBFE, RLPICB, RLPIDB, RLRC_EQLOC, RLRC_LOCEQ, RLUNITTYP |
| 19.2.R | RLCKTDATA, RLCLIDAT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_PORTTYP, RLMODATT, RLMTBFE, RLPICB, RLPIDB, RLRC_CLEI, RLRC_EQLOC, RLRC_LOCEQ |
| 19.4.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDLTUINFO, RLRC_CLEI, RLRC_EQLOC, RLRC_LOCEQ, RLRISLUDFI |
| 19.5.R | RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLGCKTI, RLMODATT, RLPICB, RLPIDB, RLRC_CLEI, RLRC_EQLOC, RLRC_LOCEQ, RLSMCONF |
| 19.6.R | RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLMODATT, |

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| | RLPICB, RLPIDB, RLRC_CLEI, RLRC_EQLOC, RLRC_LOCEQ, RLUNITTYP |
| 19.7.R | RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_PORTTYP, RLMSPRTLST, RLMSSELLST, RLMUMTIB, RLPC_MSUSG, RLPICB, RLPRTC, RLRC_EQLOC, RLRC_LOCEQ |
| 19.9.R | RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLMODATT, RLPICB, RLRC_EQLOC, RLRC_LOCEQ |
| 19.10.R | RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLPICB, RLPIDB, RLRC_EQLOC, RLRC_LOCEQ |
| 19.11.R | RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLISTF, RLPICB, RLPIDB, RLRC_EQLOC, RLRC_LOCEQ |
| 19.12.R | RLCKTDATA, RLDPIDB_PT, RLFAC_CAB, RLISLUPIDB, RLPICB, RLPIDB, RLPIDBLIMIT, RLPSIUPIDB, RLRC_EQLOC, RLRC_LOCEQ, RLRC_TUR, RLUNITTYP |
| 19.13.R | RLCKTDATA, RLMH_TSLOT, RLMH_UNIT, RLSMCONF, RLUNIT_CKT |
| 19.14.R | RLCKT_REL, RLCKTDATA, RLLNK_PLI, RLLNK_USE, RLMH_TSLOT, RLMH_UNIT, RLNO_PICB, RLPLI_LNK, RLRC_EQLOC, RLUNIT_CKT, RLUNIT_MH |
| 19.15.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLPICB, RLRC_EQLOC, RLRC_LOCEQ |
| 19.16.R | RLAIU2RG, RLAIUPIDB, RLAPP2TSP, RLCKT_REL, RLCKTDATA, RLDPIDB_PT, RLLNK_PLI, RLMH_TSLOT, RLMH_UNIT, RLMODATT, RLMTB_COMP, RLMTBFE, RLPICB, RLPIDB, RLPSIUPIDB, RLRC_EQLOC, RLRC_LOCEQ, RLRG2AIU, RLRPSITE, RLTSP2APP, RLTSTP2UNIT, RLUNIT_CKT, RLUNIT_MH, RLUNIT2MAB |
| 19.18.R | RLCKTDATA, RLDSC3PIDB, RLPICB, RLPIDB, RLRC_EQLOC, RLRC_LOCEQ, RLTDEC_CKT, RLUNIT_CKT, RLXCVR_CKT |
| 19.19.R | RLCKTDATA, RLCNF6_CKT, RLCNF10CKT, RLCPM_UNIT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDSC3PIDB, RLGCKTI, RLGDSF_CNT, RLMEASFLTR, RLMODATT, RLPICB, RLPIDB, RLRC_EQLOC, RLRC_LOCEQ, RLTC_LTP, RLUCNF_CKT, RLUNIT_CKT |
| 19.20.R | RLCKTDATA, RLENETLINK, RLENETPIPE, RLMODATT, RLUNIT_CKT |
| 19.21.R | RLCKTDATA, RLENETLINK, RLENETPIPE, RLMODATT, RLRT_TRKG, RLUNIT_CKT |
| 19.22.R | RLCKTDATA, RLDNU2EEC, RLENETLINK, RLMODATT, RLTSP2APP, RLUNIT_CKT |
| 20.1.R | RLCKTDATA, RLFC_LINE, RLFC_PORTTYP, RLHS_CKT, RLMS_SC, RLMS_SGEQ, RLRC_EQLOC, RLSMGTGDXC |
| 20.1.V | RLCKTDATA, RLRC_EQLOC |
| 20.2.R | RLCKTDATA, RLFC_LINE, RLFC_PORTTYP, RLMTBFE, RLMTBTST, RLRC_CLEI, RLRC_EQLOC |
| 20.3.V | RLCKTDATA, RLFC_LINE, RLFC_PORTTYP, RLMTBFE, RLMTBTST, RLRC_CLEI, RLRC_EQLOC |
| 20.4.R | RLAFAC, RLCDFI_CON, RLCGA_STAT, RLCKT_REL, RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDF2THRSH, RLDFI, RLDSLEQUIP, RLEC5OPTS, RLFACTHRSH, RLFC_LINE, RLFC_PORTTYP, RLFC_TRUNK, RLFIDB_SGN, RLHDFI_CON, RLMODATT, RLMULTIFAC, RLPICB, RLPIDB, RLPMFACGRP, RLPMGRPFAC, RLPMTHRESH, RLRC_CLEI, RLRC_DFIMAP, RLRC_DLTP, RLRC_EQLOC, RLRC_LOCEQ, RLRDFI_CON, RLTSP2APP |
| 20.5.R | RLCKTDATA, RLCNF6_CKT, RLGCKTI, RLINTTTF, RLPICB, RLRC_CLEI, RLRC_EQLOC, RLRPTRNSCV, RLTDEC_CKT, RLUCNF_CKT |
| 20.5.V | RLCKTDATA, RLPICB, RLRC_CLEI, RLRC_EQLOC |
| 20.6.R | RL96DFISID, RLCGA_STAT, RLCKTDATA, RLPICB, RLPIDB, RLRC_CLEI, RLRC_EQLOC, RLRC_LOCEQ |
| 20.7.R | RLCKTDATA, RLFC_PORTTYP, RLMTBFE, RLPICB, RLRC_EQLOC |
| 20.7.V | RLCKTDATA, RLMTBFE, RLRC_EQLOC |
| 20.8.R | RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLMODATT, RLMUMTIB, RLRC_EQLOC, RLRC_LOCEQ |
| 20.9.R | RLCKTDATA, RLMTBDCTU, RLMTBFE, RLPICB, RLRC_EQLOC, |

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| | RLRC_LOCEQ |
| 20.10.R | RLCKTDATA, RLRAF_MBD, RLRC_EQLOC |
| 20.11.R | RLCKTDATA, RLCLIDAT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLMODATT, RLPICB, RLRC_EQLOC, RLRC_LOCEQ, RLRCB_HCB, RLRCLKDEF, RLSRCREF |
| 20.12.R | RLCGA_STAT, RLCKT_REL, RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFAC_PROV, RLFACNAME, RLFACTHRSH, RLFID2NAME, RLPMFACGRP, RLPMGRPFAC, RLRC_CLEI, RLST2VPIDB, RLSTSPTRC, RLUNIT_CKT |
| 20.13.V | RLDPIDB_PT, RLDS12RT, RLDSLEQUIP, RLRC_EQLOC |
| 20.16.R | RLAIU2AP, RLAIU2RG, RLCKT_PORT, RLCKT_REL, RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_PORTTYP, RLGROUP_PORT, RLPMDSLGRP, RLPMTHRESH, RLRC_EQLOC, RLRG2AIU, RLRPSITE, RLRT_ROUTING, RLTSTP2UNIT, RLUNIT_CKT |
| 20.20.R | RLCKTDATA, RLFC_PORTTYP, RLMTBFE, RLPRTC, RLRC_EQLOC |
| 20.21.R | RLCKTDATA, RLCTDECCKT, RLFC_TRUNK, RLPICB, RLRC_EQLOC, RLRT_TRKG, RLTDEC_CKT, RLXCVR_CKT |
| 20.22.R | RLCKTDATA, RLFC_PORTTYP, RLLPRTACCS, RLPICB, RLRC_EQLOC, RLSMCONF |
| 20.23.R | RLCGA_STAT, RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDS1_PT, RLDS12RT, RLFACNAME, RLFACRMKS, RLFACTHRSH, RLFC_PORTTYP, RLFID2NAME, RLPMFACGRP, RLPMGRPFAC, RLRC_EQLOC, RLRC_LOCEQ |
| 20.24.R | RLCGA_STAT, RLCKT_REL, RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLF_VPIDB, RLFAC_PROV, RLFACNAME, RLFACTHRSH, RLFC_PORTTYP, RLFID2NAME, RLMULTIFAC, RLPMFACGRP, RLPMGRPFAC, RLST2VPIDB, RLTSP2APP, RLUNIT_CKT, RLVPIDB_F |
| 20.25.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACNAME, RLFACRMKS, RLFACTHRSH, RLFID2NAME |
| 20.26.R | RLCKTDATA, RLRAF_MBD, RLRC_EQLOC, RLRC_LOCEQ, RLSASFMCRD |
| 21.1.R | RLDB_AMGPD, RLDLDSL, RLFC_PORTTYP, RLMODATT, RLOPEXTDB, RLOSPSPARM, RLOTR_VLD, RLPOS_PORT, RLSTINFO, RLXNDLDSL |
| 21.2.R | RLAUT_REC, RLCTINFO, RLDA_DIGSTRT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_ANOUNCE, RLFC_CARR, RLGROUP_PORT, RLID_IFLOW, RLID_ST, RLINTERFLW, RLOLOGINID, RLOSPSPARM, RLRESXDL, RLRT_ROUTING, RLRT_SCRNING, RLRT_TRKG, RLSTINFO |
| 21.3.V | RLDB_AMGPD, RLSTINFO |
| 21.4.R | RLACD_DN, RLDAA_DN, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLID_OPER, RLINTOPID, RLOLOGINID, RLSTINFO |
| 21.5.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLRESXDL, RLSTINFO |
| 21.5.V | RLDB_AMGPD, RLRESXDL, RLSTINFO |
| 21.6.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLOSPSPARM, RLOTR_VLD |
| 21.7.R | RLCTINFO, RLDB_AMGPD, RLDSTID_RR, RLEIS_RCL, RLINTERFLW, RLIST_PARM, RLOPEISDB, RLSTINFO |
| 21.8.R | RLAUT_REC, RLCTINFO, RLDB_AMGPD, RLDSTID_RR, RLEIS_RCL, RLID_IFLOW, RLIST_PARM, RLOPEISDB, RLSTINFO |
| 21.8.V | RLAUT_REC, RLDSTID_RR, RLID_IFLOW, RLIST_PARM |
| 21.9.V | RLDSTID_RR, RLINTERFLW, RLIST_PARM |
| 21.16.R | RLAUT_REC, RLID_IFLOW, RLID_OPER, RLID_ST |
| 21.16.V | RLAUT_REC |
| 21.17.R | RLAUT_REC, RLCTINFO, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLSTINFO |
| 21.17.V | RLAUT_REC |
| 21.18.R | RLAUT_REC, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLID_OPER, RLID_ST, RLOLOGINID, RLSTINFO |
| 21.18.V | RLAUT_REC, RLID_OPER, RLID_ST |
| 21.22.R | RLAC_CQDET, RLAC_DESTX, RLAC_TGRP, RLAC_TKCT, RLAUT_REC, |

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| | RLCTINFO, RLDB_AMGPD, RLEIS_RCL, RLID_IFLOW, RLINTERFLW, RLOPEISDB, RLRT_ROUTING, RLRT_TRKG, RLSERVDATA, RLSTINFO |
| 21.23.R | RLAC_TKCT, RLCTINFO, RLCV_VECTR, RLDB_AMGPD, RLOAODISP, RLOP_ID, RLOP_IDDN, RLRT_TRKG, RLSERVDATA |
| 21.24.R | RLAC_TKCT, RLOP_ID, RLOP_IDDN, RLRT_SCRNING |
| 21.25.R | RLAC_TKCT, RLOP_ID, RLOP_IDDN |
| 21.26.R | RLAC_TKCT, RLACD_DN, RLDAA_DN, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLOAODISP |
| 21.27.R | RLAISCLS, RLDA_CONFLCT, RLDAPRLFNL, RLDAPRMFNL, RLDB_AMGPD, RLDSTID_RR, RLFC_TRUNK, RLGROUP_PORT, RLID_IFLOW, RLINTERFLW, RLIST_PARM, RLRR_DN, RLRT_SCRNING, RLRT_TRKG |
| 21.30.R | RLAQTE_ADP, RLAQTE_DAP, RLCKTDATA, RLDB_AMGPD, RLDGRP_RI, RLDLDSL, RLDPIDB_PT, RLDSLEQUIP, RLDSLGDATA, RLEIS_DATA, RLEIS_SM, RLEISDSL, RLEQUIPDSL, RLFC_LINE, RLFC_PORTTYP, RLISLULGC, RLLPRT_FW, RLMODATT, RLOSPSPARM, RLPHCHSTAT, RLPORT_POS, RLPSHFINFO, RLPSIUPIDB, RLRC_EQLOC, RLRC_OLTH, RLRI_DGRP, RLRIBM_SC, RLSMCONF, RLTSCOUNT, RLXNDLDSL |
| 21.31.V | RLDSLEQUIP, RLDSLGDATA, RLEQUIPDSL, RLFC_PORTTYP, RLLPRT_FW, RLSMCONF |
| 21.32.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFC_PORTTYP, RLIST_PARM, RLLPRT_POS, RLMODATT, RLOSPSPARM, RLPORT_POS, RLPOS_LPRT, RLPOS_PORT, RLPOSRELAB |
| 21.33.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD |
| 21.34.R | RLACOFTRAN, RLACSR_GRP, RLACSR_LDM, RLACSR_USR, RLACT_SPR, RLARPORT, RLATCNTMSK, RLBIKYPM, RLBNFEAT, RLCF_LDN, RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDGRP_RI, RLDLDSL, RLDN_LOCDN, RLDN_LPT, RLDN_PSCM, RLDPIDB_PT, RLDSLEQUIP, RLDSLGDATA, RLDTGSTRAN, RLEQUIPDSL, RLFACIDS, RLFACNAME, RLFC_CARR, RLFC_LINE, RLFC_PORTTYP, RLFCHOTMOT, RLFEATBN, RLFID2NAME, RLGROUP_PORT, RLGRP_MPM, RLHUNTKEYS, RLICR, RLIS_LINE, RLIS_TERM, RLISACOF, RLISAFIDX, RLISATGRP, RLISATLMT, RLISATMBR, RLISATMOD, RLISBILLDN, RLISDTGS, RLISLULGC, RLISSATND, RLISTGIDX, RLISTMBLST, RLKEYLIST, RLLAPBSUB, RLLAT_LPT, RLLPT_PT, RLLPT_SPID, RLLTM_CLST, RLMASK_BLF, RLMDC_GRP, RLMODATT, RLMONI_BLF, RLMONTOQ, RLNOCCODE, RLODPSOP, RLPGGPMAP, RLPHCHSTAT, RLPMTHRESH, RLPR_DNTRAN, RLPSBILLDN, RLPSCSTCUG, RLPSCUGCST, RLPSDNICRI, RLPSGP_PRT, RLPSHFINFO, RLPSIUPIDB, RLPSMAPPVC, RLPSPRT_GP, RLPSPVCINF, RLPSX25LN, RLQU_OS, RLRC_CNINF, RLRC_DNINFO, RLRC_EQLOC, RLRC_ICITG, RLRC_ICRTN, RLRC_IDX, RLRC_ILTH, RLRC_LAHOL, RLRC_LCC, RLRC_LPHOL, RLRC_MMINF, RLRC_ODB, RLRC_OEINFO, RLRC_PGRPRMK, RLRC_SGPDN, RLRC_TUR, RLRI_DGRP, RLRT_DNTRAN, RLRT_EDN, RLRT_MHG, RLRT_MPG, RLRTDNMOD, RLRTDNMPG, RLRTICITK, RLRTISATMP, RLSCM_NSCM, RLSHTERM, RLSPID, RLTERMKYDN, RLTMBLIST, RLTREE_BLF, RLTRMFEATS, RLTSCOUNT |
| 21.41.R | RLAC_TKCT, RLACD_DN, RLCTINFO, RLCV_DSTDN, RLCV_VECTR, RLDAA_DN, RLDB_AMGPD, RLFC_ANOUNCE, RLGROUP_PORT, RLOAODISP, RLRT_ROUTING, RLSTINFO |
| 21.42.R | RLCV_DSTDN, RLNOCCODE, RLRCTGRPRK, RLRT_DNTRAN, RLRT_ROUTING, RLRTDNMOD |
| 21.45.R | RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDLDSL, RLDPIDB_PT, RLDSLEQUIP, RLDSLGDATA, RLEQUIPDSL, |

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| | RLFC_PORTTYP, RLISLU2LG, RLISLULGC, RLISLUPIDB, RLLAPBSUB, RLLPRT_FW, RLPORT_POS, RLPSIUPIDB, RLRC_EQLOC, RLRISLUDFI, RLXNDLDSL |
| 21.46.R | RLIPADDRMA, RLPORTIPAD, RLTCPIPDB |
| 21.47.R | RLFC_PORTTYP, RLIPADDRMA, RLPORTIPAD, RLTCPIPDB |
| 21.48.R | RLIPADDRMA |
| 21.51.R | RLDB_AMGPD, RLDLDSL, RLEIS_DATA, RLEISDSL, RLOPEISDB, RLRC_EISNM, RLSERVDATA, RLSRV_DEST, RLXNDLDSL |
| 21.52.R | RLDB_AMGPD, RLEIS_DATA, RLEIS_SM, RLRC_EISNM, RLSERVDATA |
| 21.53.R | RLDB_AMGPD, RLRC_EISNM, RLRCTGRPRK, RLRT_FIXEDRI, RLRT_ROUTING, RLRT_TRKG, RLSERVDATA, RLSRV_DEST |
| 21.54.R | RLAC_CQDET, RLAC_DESTX, RLAC_TGRP, RLAC_TKCT, RLANNC_APL, RLANNC_HDR, RLCTINFO, RLDB_AMGPD, RLEIS_DATA, RLEIS_RCL, RLRC_EISNM, RLRT_ROUTING, RLRT_TRKG, RLSERVDATA, RLSRV_DEST |
| 21.55.R | RLCTINFO, RLDB_AMGPD, RLEIS_DATA, RLOPEISDB, RLOPEXTDB, RLOSPSPARM, RLRC_EISNM, RLSERVDATA, RLSTINFO |
| 21.56.V | RLCTINFO, RLDB_AMGPD, RLEIS_RCL, RLOPEISDB, RLRC_EISNM |
| 21.57.R | RLAC_CQDET, RLAC_DESTX, RLAISCLS, RLRCTGRPRK |
| 21.58.R | RLDB_AMGPD, RLEIS_DATA, RLIBMTGN, RLRCTGRPRK, RLXNDLDSL |
| 21.59.V | RLGROUP_PORT, RLIBMTGN, RLPOS_PORT |
| 21.60.R | RLDB_AMGPD, RLLOCNAME, RLLOCNBR |
| 21.61.R | RLDB_AMGPD |
| 21.62.R | RLOSPSPARM, RLPOS_NOPORT, RLPOS_PORT |
| 22.1.R | RLCKTDATA, RLMODATT, RLRC_EQLOC, RLSMCONF |
| 22.2.R | RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLLNK_PLI, RLLNK_USE, RLPHCHSTAT, RLPICB, RLPIDB, RLPLI_LNK, RLPSHFINFO, RLPSIUPIDB, RLPSU_TRKG, RLPSULNK, RLPSUSM, RLRC_EQLOC, RLRC_LOCEQ, RLRT_TRKG, RLSMPSU, RLTSCOUNT |
| 22.2.V | RLCKTDATA, RLLNK_PLI, RLLNK_USE, RLPLI_LNK, RLPSIUPIDB, RLRC_EQLOC, RLSMPSU |
| 22.3.R | RLCKTDATA, RLDB_AMGPD, RLLNK_PLI, RLLNK_USE, RLPHCHSTAT, RLPIDB, RLPLI_LNK, RLPSHFINFO, RLPSIUPIDB, RLRC_EQLOC, RLRC_LOCEQ, RLTSCOUNT |
| 22.4.R | RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDSLGDATA, RLPSDNICRI, RLPSIUPIDB, RLPSMHGDNR, RLPSRI_PSN, RLRATEPERD, RLRC_EQLOC, RLRTDNMPG, RLSMCONF, RLTERMCADN |
| 22.5.R | RLACT_SPR, RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDPIDB_PT, RLISLUPIDB, RLMS_LUSDY, RLMS_SC, RLMS_SGSDY, RLPICB, RLPIDB, RLPSIUPIDB, RLRC_EQLOC, RLRC_LOCEQ, RLRC_TUR, RLUNITTYP |
| 22.6.R | RLCKTDATA, RLISLULGC, RLMS_SGEQ, RLRC_EQLOC |
| 22.6.V | RLCKTDATA, RLRC_EQLOC |
| 22.7.R | RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACNAME, RLFC_LINE, RLFC_PORTTYP, RLISLULGC, RLLOSS_TBL, RLPMDSLGRP, RLPMGRPDSL, RLPMTHRESH, RLRC_EQLOC |
| 22.8.R | RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACNAME, RLFC_PORTTYP, RLHS_CKT, RLISLULGC, RLMS_SC, RLMTBFE, RLPMTHRESH, RLRC_EQLOC, RLRC_LOCEQ |
| 22.8.V | RLCKTDATA, RLRC_EQLOC |
| 22.9.R | RLACT_SPR, RLCGA_STAT, RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLISLUPIDB, RLMS_LUSDY, RLMS_SGSDY, RLPICB, RLPIDB, RLRC_EQLOC, RLRC_LOCEQ, RLRISLUDFI, RLSMCONF, RLUNITTYP |
| 22.10.R | RLCGA_STAT, RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLISLUPIDB, RLPICB, RLPIDB, RLRC_EQLOC, RLRC_LOCEQ, RLRISLUDFI |
| 22.11.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLRPSITE |
| 22.12.V | RLDPIDB_PT, RLDSLEQUIP, RLRC_EQLOC |
| 22.13.R | RLDSLEQUIP, RLDSLGDATA, RLEQUIPDSL, RLFC_PORTTYP, RLISMPATH, RLISMRSM, RLMODATT, RLPHCHSTAT, RLPSHFINFO, |

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| | RLPSIUPIDB, RLSMCONF, RLSMPORTBL, RLTSCOUNT |
| 22.14.V | RLDS12RT, RLDSLEQUIP, RLODPSOP, RLPSULNK, RLRC_ODB, RLSMPSU |
| 22.15.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDF2THRSH, RLFACNAME, RLFACRMKS, RLFACTHRSH, RLFID2NAME, RLPMTHRESH |
| 22.16.R | RLCKTDATA, RLDSLGDATA, RLGROUP_PORT, RLPHCHSTAT, RLPSHFINFO, RLPSIUPIDB, RLPSU_TRKG, RLRC_CHGRP, RLRC_ODB, RLRT_TRKG, RLSMPSU, RLTGMBR_AM |
| 22.17.R | RLCKTDATA, RLDN_RDTA, RLFC_LINE, RLFC_PORTTYP, RLFC_TRUNK, RLLPT_PT, RLNOCCODE, RLPR_DNTRAN, RLRC_EQLOC, RLRC_LPHOL, RLRC_QIDX, RLRCTGRPRK, RLRT_DNTRAN, RLRTDNMOD |
| 22.18.R | RLDN_RDTA |
| 22.19.V | RLCKTDATA, RLDGRP_RI, RLDSLEQUIP, RLMODATT, RLODPSOP, RLPSIUPIDB, RLRC_EQLOC, RLRC_ODB |
| 22.20.V | RLCKTDATA, RLDGRP_RI, RLDSLEQUIP, RLDSLGDATA, RLODPSOP, RLPSIUPIDB, RLRC_EQLOC, RLRC_ODB |
| 22.21.R | RLACT_SPR, RLCKT_PORT, RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACNAME, RLFC_LINE, RLFC_PORTTYP, RLISLU2LG, RLISLULGC, RLISLUPIDB, RLMODATT, RLPMTHRESH, RLRC_EQLOC, RLUNIT_CKT |
| 22.22.R | RLCKTDATA, RLCKTLNK, RLDSLGDATA, RLPSIUPIDB, RLPSULNK |
| 22.23.V | RLCKTDATA, RLDPIDB_PT, RLDSLEQUIP, RLRC_EQLOC |
| 22.24.R | RLRC_EQLOC, RLRPMA, RLRPSITE |
| 23.1.V | RLDSLEQUIP, RLFC_LINE, RLFC_PORTTYP, RLLPT_SPID, RLODPSOP, RLOFFICECODE, RLPFIXTEI, RLPGGPMAP, RLPSPRT_GP, RLPSX25LN, RLRC_SPID, RLSPID |
| 23.2.R | RLACOFTRAN, RLACSR_GRP, RLACSR_LDM, RLACSR_USR, RLACT_SPR, RLARPORT, RLATCNTMSK, RLBIKYPM, RLBNFEAT, RLCDNCHAN, RLCF_LDN, RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDGRP_RI, RLDLDSL, RLDN_ESP, RLDN_LOCDN, RLDN_LPT, RLDN_PSCM, RLDPIDB_PT, RLDS1_PT, RLDSLEQUIP, RLDSLGDATA, RLDTGSTRAN, RLEPO_POS, RLEQUIPDSL, RLFACIDS, RLFACNAME, RLFC_CARR, RLFC_LINE, RLFC_PORTTYP, RLFCHOTMOT, RLFEATBN, RLFID2NAME, RLGENSCA, RLGENSCF, RLGENSCR, RLGENSDA, RLGROUP_PORT, RLGRP_MPM, RLHUNTKEYS, RLICR, RLIMESP, RLIS_LINE, RLIS_TERM, RLISACOF, RLISAFIDX, RLISATGRP, RLISATLMT, RLISATMBR, RLISATMOD, RLISBILLDN, RLISDTGS, RLISLU2LG, RLISLULGC, RLISRMBLST, RLISSATND, RLISTGIDX, RLISTMBLST, RLKEYLIST, RLLAPBSUB, RLLAT_LPT, RLLPT_PT, RLLPT_SPID, RLLSFHCA, RLLSFHCF, RLLSFHCR, RLLSFHDA, RLLTM_CLST, RLMASK_BLF, RLMDC_GRP, RLMODATT, RLMONI_BLF, RLMONTOQ, RLNOCCODE, RLODPSOP, RLPBG_INFO, RLPBG_SFG, RLPFIXTEI, RLPGGPMAP, RLPHCHSTAT, RLPMDSLGRP, RLPMGRPDSL, RLPMTHRESH, RLPP_LTM, RLPR_DNTRAN, RLPRIM_DNA, RLPSBILLDN, RLPSCSTCUG, RLPSCUGCST, RLPSDNICRI, RLPSGP_LDN, RLPSGP_PRT, RLPSHFINFO, RLPSIUPIDB, RLPSLDN_GP, RLPSMAPPVC, RLPSMHGDNR, RLPSPRT_GP, RLPSPVCINF, RLPSX25LN, RLQU_DLY, RLQU_OS, RLRC_CFGBM, RLRC_CNINF, RLRC_DNINFO, RLRC_EQLOC, RLRC_ICITG, RLRC_ICRTN, RLRC_IDX, RLRC_ILTH, RLRC_LAHOL, RLRC_LCC, RLRC_LPHOL, RLRC_MMINF, RLRC_ODB, RLRC_OEINFO, RLRC_PGRPRMK, RLRC_SGPDN, RLRC_SPID, RLRC_TUR, RLRCTGRPRK, RLREMBV_RI, RLRI_DGRP, RLRMBLIST, RLRT_DNTRAN, RLRT_EDN, RLRT_FIXEDRI, RLRT_MHG, RLRT_MISC, RLRT_MPG, RLRT_TRKG, RLRTDNMOD, RLRTDNMPG, RLRTGRPDN, |

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| | RLRTICITK, RLRTISATMP, RLSCA_LTM, RLSCF_LTM, RLSCM_NSCM, RLSCR_LTM, RLSDA_LTM, RLSEC_DNA, RLSHTERM, RLSPID, RLTERMCADN, RLTERMKYDN, RLTGCNTMSK, RLTMBLIST, RLTREE_BLF, RLTRMFEATS, RLTSCOUNT |
| 23.3.R | RLCDNCHAN, RLDSLEQUIP, RLEQUIPDSL, RLFC_LINE, RLFC_PORTTYP, RLGROUP_PORT, RLIS_LINE, RLLPT_PT, RLODPSOP, RLPGGPMAP, RLPR_DNTRAN, RLPSGP_PRT, RLPSPRT_GP, RLPSX25LN, RLRT_DNTRAN, RLRT_MHG, RLRT_MPG |
| 23.8.R | RLEPO_POS, RLPMTHRESH, RLRC_OEINFO |
| 23.8.V | RLEPO_POS, RLPMTHRESH, RLRC_OEINFO |
| 23.9.V | RLDSLEQUIP, RLEQUIPDSL, RLLPT_PT, RLODPSOP, RLPR_DNTRAN, RLPSCSTCUG, RLPSGP_PRT, RLPSX25LN |
| 23.10.R | RLDSLEQUIP, RLEQUIPDSL, RLLPT_PT, RLODPSOP, RLPR_DNTRAN, RLPSCSTCUG, RLPSCUGCST, RLPSGP_PRT, RLPSX25LN |
| 23.11.R | RLEQUIPDSL, RLLPT_PT, RLODPSOP, RLPR_DNTRAN, RLPSGP_PRT, RLPSMAPPVC, RLPSPSN_RI, RLPSPVCINF, RLPSX25LN, RLRT_MHG, RLRTDNMOD |
| 23.12.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDSLEQUIP, RLMODATT, RLPR_DNTRAN, RLPSBILLDN, RLPSCSTCUG, RLPSGP_PRT, RLPSX25LN, RLRT_DNTRAN, RLRT_MHG, RLRT_MPG, RLRTDNMPG |
| 23.13.R | RLDPIDB_PT, RLISLUPIDB, RLRC_EQLOC, RLRC_TUR |
| 23.14.R | RLDSLGDATA, RLEQUIPDSL, RLODPSOP, RLPHCHSTAT, RLPSHFINFO, RLRC_ODB |
| 23.15.R | RLBFGMATCH, RLCKT_PORT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACIDS, RLFACNAME, RLFC_LINE, RLFID2NAME, RLLPT_PT, RLRC_HOLE, RLRC_LCC, RLRC_QIDX |
| 23.16.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLNOCCODE, RLPBG_INFO, RLPBG_SFG |
| 23.17.R | RLBNFEAT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFEATBN, RLGROUP_PORT, RLIS_LINE, RLIS_TERM, RLLTM_PORT, RLMONTOQ, RLNOCCODE, RLOFFICECODE, RLQU_CFDFL, RLQU_OS, RLRT_DNTRAN, RLRT_MHG |
| 23.18.V | RLPR_DNTRAN, RLRCRTMOD, RLRTDNMOD, RLRTDNMPG |
| 23.19.R | RLMODATT, RLPSIUPIDB, RLRC_CTUR, RLRC_EQLOC, RLTSCOUNT |
| 23.20.R | RLATCNTMSK, RLBIKYPM, RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDN_FEATS, RLDN_PSCM, RLDSLEQUIP, RLEPO_POS, RLFC_LINE, RLFC_PORTTYP, RLGROUP_PORT, RLIS_LINE, RLIS_TERM, RLISBILLDN, RLISRMBLST, RLISTMBLST, RLLPT_PT, RLLPT_SPID, RLLTM_CLST, RLLTM_PORT, RLMASK_BLF, RLMODATT, RLMONI_BLF, RLMS_ATT, RLMS_MLHG, RLNOCCODE, RLODPSOP, RLOFFICECODE, RLPGGPMAP, RLPRIM_DNA, RLPSX25LN, RLRC_ALPHO, RLRC_DNINFO, RLRC_ILTH, RLRC_LPHOL, RLRC_OLTH, RLRCTGRPRK, RLRT_DNTRAN, RLRT_MCTR, RLRT_MHG, RLRT_TRKG, RLRTDNMOD, RLRTGRPDN, RLSCM_NSCM, RLSEC_DNA, RLSHTERM, RLSPID, RLTERMKYDN, RLTGCNTMSK, RLTREE_BLF |
| 23.20.V | RLDN_PSCM, RLEPO_POS, RLFC_PORTTYP, RLGROUP_PORT, RLIS_LINE, RLISBILLDN, RLLPT_PT, RLMODATT, RLNOCCODE, RLPGGPMAP, RLRC_DNINFO, RLRC_ILTH, RLRC_LPHOL, RLRC_OLTH, RLRCTGRPRK, RLRT_DNTRAN, RLRT_TRKG, RLRTDNMOD, RLSCM_NSCM, RLSHTERM, RLTERMKYDN |
| 23.21.R | RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDSLEQUIP, RLEPO_POS, RLFACNAME, RLFC_LINE, RLFC_PORTTYP, RLFID2NAME, RLGROUP_PORT, RLICM_1LST, RLICM_GRP, RLICM_TERM, RLIS_LINE, RLIS_TERM, RLISBILLDN, RLLPT_PT, RLLPT_SPID, RLLTM_PORT, RLMODATT, RLNOCCODE, RLODPSOP, RLOFFICECODE, RLPGGPMAP, RLPRIM_DNA, |

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| | RLPSX25LN, RLRC_DNINFO, RLRC_ILTH, RLRC_LPHOL, RLRC_MMINF, RLRC_OLTH, RLRT_DNTRAN, RLRT_MHG, RLRTDNMOD, RLSEC_DNA, RLSHTERM, RLSPID |
| 23.21.V | RLEPO_POS, RLMODATT |
| 23.22.V | RLBNFEAT, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACNAME, RLFID2NAME, RLGROUP_PORT, RLIS_LINE, RLIS_TERM, RLLTM_PORT, RLNOCCODE, RLOFFICECODE, RLRC_CFGBM, RLRT_DNTRAN, RLTERMKYDN |
| 23.23.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACIDS, RLFACNAME, RLFID2NAME, RLICM_1LST, RLICM_GRP, RLICM_TERM, RLIS_LINE, RLIS_TERM, RLRT_DNTRAN, RLSPID, RLTERMKYDN |
| 23.24.R | RLBNFEAT, RLFC_LINE, RLIS_LINE, RLIS_TERM, RLRC_CFGBM, RLTSM_BMAP, RLTSM_BTN, RLTSM_UMAP, RLTSMTRING |
| 23.25.V | RLTSMTRING |
| 23.30.R | NULL, RLLTM_CLST |
| 23.33.R | NULL, RLLTM_CLST |
| 23.34.R | NULL, RLLTM_CLST |
| 23.40.R | RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDLDSL, RLDSLEQUIP, RLDSLGDATA, RLEQUIPDSL, RLFACNAME, RLFC_CARR, RLFC_PORTTYP, RLMODATT, RLNOCCODE, RLPHCHSTAT, RLPR_DNTRAN, RLPSBILLDN, RLPSCSTCUG, RLPSDNICRI, RLPSGP_PRT, RLPSHFINFO, RLPSIUPIDB, RLPSMAPPVC, RLPSPRT_GP, RLPSPVCINF, RLPSTRK_L2, RLPSX25LN, RLRC_CNINF, RLRC_DLTP, RLRC_DNINFO, RLRC_EQLOC, RLRC_IDX, RLRC_LCC, RLRC_PGRPRMK, RLRT_DNTRAN, RLRT_EDN, RLRT_MHG, RLRT_MPG, RLRTDNMOD, RLRTDNMPG, RLSMCONF, RLTSCOUNT, RLXAT_PORT |
| 23.41.V | RLCDFI_CON, RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDSLEQUIP, RLFC_PORTTYP, RLHDFI_CON, RLLNKP_LS, RLMODATT, RLPGGPMAP, RLPICB, RLPIDB, RLPSPRT_GP, RLPSX25LN, RLRC_DFIMAP, RLRC_DLTP, RLRC_EQLOC, RLRC_LOCEQ, RLRDFI_CON, RLSDL_ST |
| 23.42.V | RLCKTDATA, RLDSLEQUIP, RLFC_PORTTYP, RLLNKP_LS, RLPGGPMAP, RLPSPRT_GP, RLPSX25LN, RLRC_PGRPRMK, RLSDL_ST |
| 24.1.R | RLAPSITE, RLCMAPDATA, RLRCAPDATA |
| 24.2.R | RLCMAPDATA, RLMDR_CNTS |
| 24.3.R | RLAPPFGRP, RLCMAPDATA, RLHSSASGN, RLTDASSIGN |
| 24.4.R | RLACCT_GP, RLAPPFGRP, RLARGP, RLATH_GRP, RLCMAPDATA, RLDB_AMGPD, RLFACNAME, RLFC_PORTTYP, RLFID2NAME, RLFMASSIGN, RLGROUP_PORT, RLID2NAME, RLIDP_GP, RLMDR_GP, RLMS_ATT, RLMS_IDP, RLMS_MLHG, RLMS_PFA, RLMS_QU, RLMS_TGSR, RLNAME2ID, RLRT_MHG, RLRT_SFG, RLRT_TRKG, RLTD_SCHED, RLTDASSIGN |
| 24.5.R | RLCMAPDATA, RLFMASSIGN |
| 24.7.R | RLAPSITE, RLCMAPDATA, RLDGRP_RI, RLDPIDB_PT, RLDSLEQUIP, RLDSLGDATA, RLDSLXN, RLEQUIPDSL, RLFC_PORTTYP, RLISLULGC, RLPHCHSTAT, RLPSHFINFO, RLPSIUPIDB, RLRCAPDATA, RLRI_DGRP, RLTSCOUNT, RLXNDSL |
| 24.9.R | RLDB_AMGPD, RLEDS_GRP, RLFACFTDSC, RLFACIDS, RLFACNAME, RLFID2NAME, RLMDC_GRP, RLMDS_GRP, RLMS_AP |
| 24.10.R | RLDB_AMGPD, RLEDS_GRP, RLFACFTDSC, RLFACIDS, RLFACNAME, RLFID2NAME, RLMDC_GRP, RLMDS_GRP, RLMS_AP |
| 24.11.R | RLDB_AMGPD, RLEDS_GRP, RLFACFTDSC, RLFACIDS, RLFACNAME, RLFID2NAME, RLMDC_GRP, RLMDS_GRP, RLMS_AP |
| 24.12.R | RLCMAPDATA, RLDB_AMGPD, RLGROUP_PORT, RLMSAPHSS, RLRT_LGMEM, RLRT_MEM, RLRT_MHG, RLRT_TRKG, RLTDASSIGN |
| 24.33.R | RLAPPFGRP, RLCMAPDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACFTDSC, RLFACIDS, RLFACNAME, RLFACRMKS, |

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|---|---|
| | RLFID2NAME, RLMDR_GP, RLRT_SFG |
| 25.1.R | RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLFACNAME, RLFID2NAME, RLSMCONF, RLTD_CODE, RLTD_SCHED |
| 25.1.V | RLDB_GPDUS, RLFACNAME, RLFID2NAME |
| 26.1.R | RLACCSTT, RLDB_AMGPD, RLFCNPAMAP, RLFCSCRLNE, RLFCSCRRNG, RLFCTBNTBL, RLMODATT, RLOAEXMAP, RLPHRASES |
| 26.2.R | RLDB_AMGPD, RLFC_HOTEL, RLFCNPAMAP, RLFCSCRCDE, RLFCSCRLNE, RLFCSCRRNG, RLFCTBNTBL, RLOLSR, RLSRVCODE |
| 26.2.V | RLDB_AMGPD, RLFCNPAMAP, RLFCSCRCDE, RLFCSCRLNE, RLFCSCRRNG, RLFCTBNTBL |
| 26.3.R | RLANNC_APL, RLANNC_HDR, RLDB_AMGPD, RLFCSCRCDE, RLOLSR, RLPHRASES |
| 26.4.R | RLDB_AMGPD, RLFCNPAMAP, RLOAEXMAP |
| 26.5.R | RLRT_SCRNING, RLSCROAR |
| 26.5.V | RLDB_AMGPD, RLSCROAR |
| 26.6.R | RLDB_AMGPD, RLDCPSSS, RLDIORCPS, RLNON_USA, RLTCCID |
| 26.7.R | RLAILSALL, RLAILSDT |
| 26.8.R | RLAC_CQDET, RLAISCLS, RLCTINFO, RLDB_AMGPD, RLEXPACD, RLOAODISP, RLSERVDATA |
| 26.8.V | RLEXPACD |
| 26.9.R | RLAC_CQDET, RLAC_DESTX, RLAC_TGRP, RLCTINFO, RLDB_AMGPD, RLEXPACD, RLOAODISP, RLOSPS_INT, RLSERVDATA |
| 26.10.R | RLAC_CQDET, RLAC_DESTX, RLAC_TGRP, RLAISCLS, RLCTINFO, RLDB_AMGPD, RLOAODISP, RLSERVDATA |
| 26.10.V | RLAC_DESTX, RLAC_TGRP |
| 26.11.R | RLDB_AMGPD, RLFC_4WIRE, RLFC_HOTEL, RLFC_LINE, RLFC_PORTTYP, RLFCNPAMAP, RLFCSCRLNE, RLLPT_PT, RLNOCCODE, RLRC_HOTEL, RLRC_OLTH, RLRT_DNTRAN, RLRTDNMOD |
| 26.11.V | RLDB_AMGPD, RLFC_HOTEL, RLNOCCODE, RLRT_DNTRAN, RLRTDNMOD |
| 26.12.R | RLDB_AMGPD, RLFC_NXXZN, RLFC_TMZN |
| 26.13.R | RLDB_AMGPD, RLFC_OPRTK, RLPRO_NXX |
| 26.14.R | RLDB_AMGPD, RLFC_NXXZN, RLFC_OPRTK, RLFC_TMZN, RLPRO_NXX |
| 26.15.R | RLDB_AMGPD, RLRIBM_SC |
| 26.16.R | RLFC_OPRTK, RLNPATG, RLVALOFFC |
| 26.20.R | RLDB_AMGPD, RLDNNTWK, RLFC_CARR, RLMODATT |
| 26.21.R | RLDB_AMGPD, RLFC_CARR, RLMODATT, RLOCNTWK |
| 26.22.R | RLFC_CARR, RLFC_FGBCARR, RLFCRSMCAR, RLRT_ROUTING, RLRT_SCRNING |
| 26.23.R | RLFC_TCITG, RLGROUP_PORT |
| 26.24.R | RLDB_AMGPD, RLRCTGRPRK, RLVALOFFC |
| 26.25.R | RLDB_AMGPD, RLFC_DIOPR, RLFC_FGBCARR, RLFC_OPRTK, RLRT_SCRNING |
| 26.26.R | RLAISCLS, RLANIIGRP, RLDA_ENH, RLDB_AMGPD, RLFC_CARR, RLFC_DIOPR, RLFC_OPRTK, RLPGGPMAP, RLRCTGRPRK, RLRT_SCRNING, RLRT_TRKG |
| 26.30.R | RLDB_AMGPD, RLITNALNEX, RLITNALRNG, RLITNASTAT, RLITNATGN, RLITNATRNG, RLTIME_SET |
| 26.31.R | RLDB_AMGPD, RLITNASPEC |
| 26.32.R | RLDB_AMGPD, RLFCNPAMAP, RLITNALNEX, RLITNALRNG, RLTIME_SET |
| 26.33.R | RLDB_AMGPD, RLFC_CARR, RLITNASTAT, RLITNATGN, RLITNATRNG, RLTIME_SET |
| 26.34.R | RLDB_AMGPD, RLITNASAC |
| 26.40.R | RLACCSTT, RLDB_AMGPD, RLFCNPAMAP |
| 26.41.R | RLINWNPAS, RLSEQREST |
| 26.45.R | RLANIIITBL |
| 26.46.R | RLOLNSDEF |
| 26.47.R | RLANIIGRP, RLFC_OPRTK |
| 26.48.R | RLACCTOWN, RLPHRASES |
| 26.49.R | RLSEILABEL |
| 26.50.R | RLIIFLEXAN |
| 27.1.R | RLDB_AMGPD, RLTCSCC, RLTCSNPA, RLTCSSCRN, RLTCSTEXT |

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| 27.2.R | RLDB_AMGPD, RLTCSNPA, RLTCSSCRN, RLTCSTEXT |
| 27.3.R | RLCC_PCC, RLDB_AMGPD, RLTCSCC, RLTCSSCRN, RLTCSTEXT |
| 27.4.R | RLDB_AMGPD, RLOSDC |
| 27.5.R | RLDB_AMGPD, RLFC_CARR, RLTPR_NPA |
| 27.6.R | RLTPRINTL |
| 27.10.R | RLBLVSCRN, RLDB_AMGPD |
| 27.11.R | RLDB_AMGPD, RLLINERANGE |
| 27.11.V | RLDB_AMGPD, RLLINERANGE |
| 27.12.R | RLDB_AMGPD, RLNXXRANGE |
| 27.12.V | RLDB_AMGPD, RLNXXRANGE |
| 27.20.R | RLDB_AMGPD, RLLECTEXT, RLTGNLEC |
| 27.21.R | RLDB_AMGPD, RLLECTEXT, RLTGNLEC |
| 27.22.V | RLDB_AMGPD, RLLECTEXT, RLTGNLEC |
| 27.23.R | RLDB_AMGPD, RLT1ACCESS |
| 27.30.R | RLDB_AMGPD, RLDSLEQUIP, RLFC_PORTTYP, RLOPDBPARM, RLOPEXTDB, RLPSCSTCUG, RLPSX25LN |
| 27.31.R | RLDB_AMGPD, RLOPDBPARM, RLOPEISDB, RLOPEXTDB, RLOSPSPARM, RLSTINFO |
| 27.32.R | RLDB_AMGPD, RLNPA_HEAD, RLNPA_NXX |
| 27.33.R | RLDB_AMGPD, RLNPA_HEAD, RLNPA_NXX |
| 27.34.R | RLDB_AMGPD, RLOLNP_HEAD, RLOLNP_NXX |
| 27.35.R | RLDB_AMGPD, RLOLNP_HEAD, RLOLNP_NXX |
| 27.40.R | RLADDON, RLDB_AMGPD, RLMEETME |
| 27.45.R | RLCMP_CRD, RLDB_AMGPD, RLTCCID |
| 27.50.R | RLIFTRANS |
| 27.51.R | RLAC_CQDET, RLOSPS_INT, RLRCTGRPRK, RLRT_TRKG |
| 27.52.R | RLDSTID_RR, RLID_IFLOW, RLINTERFLW, RLIST_PARM, RLPOS_PORT, RLRCTGRPRK, RLRT_TRKG |
| 27.53.R | RLCNB_CAS, RLCNH_CAS, RLDB_AMGPD |
| 27.54.R | RLDB_AMGPD, RLICNB_CAS, RLICNH_CAS, RLICRH_CAS |
| 27.55.R | RLCARRGRP, RLCMP_CRD, RLCRD_ATTR, RLCSR_ATTR, RLDB_AMGPD, RLHOMECALL, RLICCVDB, RLLANG_TBL, RLNON_USA, RLRC_IDDD, RLTCCID |
| 27.56.R | RLCRD_ATTR, RLDB_AMGPD, RLTCCID |
| 27.57.V | RLCRD_ATTR, RLDB_AMGPD, RLTCCID |
| 27.58.R | RLCSR_ATTR, RLDB_AMGPD, RLTCCID |
| 27.59.R | RLB900NB, RLB900NH, RLB900RH, RLDB_AMGPD |
| 27.60.R | RLDB_AMGPD, RLICCVDB, RLTCCID |
| 27.61.R | RLANNC_APL, RLANNC_HDR, RLCRDPRD |
| 27.64.R | RLVMSTPR |
| 27.65.R | RLDB_AMGPD, RLESPINFO |
| 27.66.R | RLCICPHRAS, RLPHRASES |
| 27.67.R | RLDB_AMGPD, RLLECCRD, RLLECRNG, RLMODATT, RLNPA_SM |
| 27.68.R | RLCARRGRP, RLLECCRD, RLLECRNG, RLNPA_SM |
| 27.69.R | RLCARRGRP, RLDB_AMGPD, RLLECCRD, RLLECRNG |
| 27.70.R | RLDB_AMGPD, RLINWNPAS, RLLANGDEST, RLMEASDES, RLSERVDES |
| 27.71.R | RLMEASDES, RLSERVDES |
| 27.72.R | RLDEHOCSM, RLINWNPAS, RLSERVDES |
| 27.72.V | RLINWNPAS |
| 27.73.R | RLPEELCC, RLSERVDES |
| 27.75.R | RLDB_AMGPD, RLFTSNXX |
| 27.76.R | RLDB_AMGPD, RLFTSRTE |
| 27.77.R | RLDB_AMGPD, RLFTSNANP |
| 27.78.R | RLDB_AMGPD, RLFTSCCPNI |
| 27.80.R | RLCC_NAME, RLDDOMREST |
| 27.81.R | RLCC_NAME, RLCHPERM, RLDB_AMGPD, RLDCPSSS, RLDDOMREST, RLDIORCPS |
| 27.82.R | RLCC_NAME, RLDB_AMGPD, RLDIORCPS, RLNON_USA |
| 27.83.R | RLDB_AMGPD, RLDIORSD |
| 27.83.V | RLDB_AMGPD, RLDIORSD |
| 27.84.R | RLDB_AMGPD, RLDEHNP, RLDEHOCSM, RLDNRARTE, RLINWNPAS, RLMODATT |
| 27.85.R | RLCC_NAME, RLDB_AMGPD, RLDEHNP, RLDEHOCSM, RLTMP3OSPS, RLTMP8OSPS |
| 27.86.R | RLCC_NAME, RLDCPSSS, RLNON_USA |
| 27.87.R | RLCC_NAME, RLDB_AMGPD, RLDEHOCSM, RLDNRALST, RLDNRARTE |
| 27.88.R | RLANNC_APL, RLANNC_HDR, RLDACC_TRT, RLDB_AMGPD |
| 27.89.R | RLCNTYLANG, RLDB_AMGPD, RLLANGDEST |
| 27.90.R | RLCC_NAME, RLDIORCCC, RLNON_USA |

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| 27.91.R | RLIBNS_CB |
| 27.95.R | RLCNTYLANG, RLCTINFO, RLDB_AMGPD, RLLANGDEST, RLLANGMENU, RLSERVDES |
| 27.96.R | RLDB_AMGPD, RLLANGDEST, RLLANGMENU |
| 27.97.R | RLANNCONV |
| 28.1.R | RLDB_AMGPD |
| 28.2.R | RLDB_AMGPD |
| 28.3.R | RLDB_AMGPD |
| 28.4.R | RLDB_AMGPD |
| 28.5.R | RLDB_AMGPD |
| 33.1.R | RLDSLGDATA, RLIPADRLOC, RLIPTOPCR, RLLOCIPADR, RLMODATT, RLPCRTOIP, RLPROTPARM, RLPSUSM, RLRC_HOLE, RLRC_QIDX |
| 33.2.R | RLDSLEQUIP, RLEQUIPDSL, RLINTFNAM, RLIPADRLOC, RLIPINTCNF, RLIPRTTAB, RLLOCIPADR, RLNAMINTF, RLPR_DNTRAN, RLPSGP_PRT, RLPSPVCINF, RLRC_HOLE, RLRC_QIDX, RLRT_MHG |
| 33.3.R | RLINTFNAM, RLIPADRLOC, RLIPRTTAB, RLLOCIPADR, RLNAMINTF |
| A.1.R | RLDB_AMGPD |
| A.2.R | RLACT_SPR, RLARPORT, RLCF_LTM, RLCF_OPTS, RLCGATYPE, RLCKTDATA, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLDN_FEATS, RLDPIDB_PT, RLDSLEQUIP, RLEQUIPDSL, RLFC_4WIRE, RLFC_911TRNK, RLFC_CARR, RLFC_DIRCON, RLFC_LINE, RLFC_PORTTYP, RLFCHOTMOT, RLGROUP_PORT, RLHUNTKEYS, RLID_PORT, RLIMESP, RLIS_LINE, RLIS_TERM, RLKEYLIST, RLLPT_PT, RLLTM_BFG, RLLTM_CLST, RLMODATT, RLMS_ATT, RLMS_MLHG, RLNOCCODE, RLODPSOP, RLPF_PORT, RLPGGPMAP, RLPP_LTM, RLPR_DNTRAN, RLPSGP_PRT, RLPSMHGDNR, RLPSX25LN, RLRC_DNINFO, RLRC_EQLOC, RLRC_IDX, RLRC_LCC, RLRC_OEINFO, RLRC_PGRPRMK, RLRC_SERVM, RLRC_SGPDN, RLRT_DNTRAN, RLRT_EDN, RLRT_MCTR, RLRT_MHG, RLRT_ROUTING, RLRT_SPECRI, RLRTDN_MHG, RLRTDNMOD, RLRTGRPDN, RLRTSATLN, RLS96EQUIP, RLSC_PORT, RLSCM_NSCM, RLTMBLIST, RLTRMFEATS |
| A.3.R | RLDB_AMGPD, RLDN_FEATS, RLFACIDS, RLFACNAME, RLFC_TRUNK, RLFID2NAME, RLID_PORT, RLID2NAME, RLNAME2ID, RLSC_PORT, RLTRMFEATS |
| A.4.R | RLDB_AMGPD, RLFACIDS, RLFACNAME, RLFID2NAME, RLIDP_CNFL, RLIDP_DTRE, RLIDP_GP |
| A.5.R | RLBTBPG, RLCGA_TRANS, RLDB_AMGPD, RLDB_GPDUS, RLFC_PORTTYP, RLFC_TRUNK, RLFCCAVCTK, RLGROUP_PORT, RLKEY_TALK, RLMODATT, RLPGGPMAP, RLRC_TRK, RLRCTGRPRK, RLRT_TRKG |
| A.6.R | RLRCTGRPRK, RLRT_TRKG |
| A.7.R | RLDA_AMBIG, RLDA_CONFLCT, RLDAPRMDGT, RLDAPRMFNL, RLDB_AMGPD, RLDB_GPDUS, RLDB_IMGPD, RLOFFICECODE, RLRC_CON, RLRC_DAS, RLRC_DGT, RLRC_FNL, RLRC_LDIT, RLRC_LDRMK, RLTMTSC |
| A.8.R | RLDA_AMBIG, RLDA_CONFLCT, RLDA_DIGSTRT, RLDAPRLDGT, RLDAPRLFNL, RLDAPRMDGT, RLDAPRMFNL, RLDB_AMGPD, RLDB_GPDUS, RLFC_TRUNK, RLGROUP_PORT, RLRCRTIRMK, RLRCTGRPRK, RLRT_ROUTING, RLRT_SCRNING |
| A.9.R | RLFC_LINE, RLMODATT |
| A.10.R | RLDN_FEATS, RLFC_LINE, RLFC_PORTTYP, RLFID2NAME, RLIS_LINE, RLTRMFEATS |
| A.11.R | RLEQUIPDSL, RLPSMHGDNR, RLPSPRT_GP, RLPSX25LN, RLRT_MHG |
| A.12.R | RLFC_CARR, RLFC_LINE, RLMODATT, RLSCD_SCRN |
| A.13.R | RLDB_GPDUS, RLFACNAME, RLFC_LINE, RLFC_PORTTYP, RLMDS_PORT, RLRC_OEINFO |
| B.1.R | RLBTCHREL, RLCLRKINFO |
| B.2.R | NONE |
| C.1.R | NONE |
| C.2.R | RLLAESPROF, RLNM2PRID, RLRC_HOLE, RLRC_QIDX |

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| C.3.V | RLCOLLFAC, RLLAESCASE, RLNAME2ID |
| C.4.R | RLCASE_IDX, RLCDNCHAN, RLCKT_PORT, RLCOLLFAC, RLDSLEQUIP, RLEQUIPDSL, RLFC_LINE, RLFC_PORTTYP, RLFC_TRUNK, RLGROUP_PORT, RLIS_LINE, RLLAESCASE, RLLAESPROF, RLLNAME2ID, RLLPT_PT, RLLPT_SPID, RLNM2PRID, RLODPSOP, RLPGGPMAP, RLPR_DNTRAN, RLPSGP_PRT, RLPSPRT_GP, RLPSX25LN, RLRC_HOLE, RLRC_LCC, RLRC_OEINFO, RLRC_PGRPRMK, RLRC_QIDX, RLRC_SPID, RLRT_DNTRAN, RLRT_EDN, RLRT_MHG, RLRT_TRKG, RLRTDNMOD, RLSPID |

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## 5. BASE RELATION TO RC/VIEW CROSS-REFERENCE

This section contains a listing of the *5ESS*®-2000 switch static data base global parameters and base relations. The associated Recent Change and Verify (RC/V) view numbers are listed for each relation. Global Parameters are listed in alphabetical order with the prefix of "GL" followed by the Base Relations with a prefix of "RL".

A corresponding cross-reference of Recent Change View to Base Relation can be found in the 235-118-255 Recent Change Reference 5E14 Software Release.

| Base Relation | Recent Change View |
|---|---|
| GL_5PST,8.1.R | |
| GL_BRIT | 8.1.R |
| GL_CPE | 8.1.R |
| GL_OSO | 8.1.R |
| GL_SPA | 8.1.R |
| GL_TINSP | 8.1.R |
| GL_VPST | 8.1.R |
| GL1ARPL | 8.1.R |
| GL2SPDT | 8.1.R |
| GL2SPST | 8.1.R |
| GL8HRFQ | 8.1.R |
| GL8HRSC | 8.1.R |
| GL8HRST | 8.1.R |
| GL800_DAS | 8.1.R |
| GL911DTIM | 8.1.R |
| GLAC_INH | 8.1.R |
| GLACGFHT | 8.1.R |
| GLACMTIM | 8.1.R |
| GLACPGT | 8.1.R |
| GLACPLN | 8.1.R |
| GLACPTO | 8.1.R |
| GLACTPRMPT | 8.1.R |
| GLAINBSYNA | 8.1.R |
| GLALITDUR | 8.1.R |
| GLALITHTOD | 8.1.R |
| GLALITMTOD | 8.1.R |
| GLALITRNG | 8.1.R |
| GLALITTYP | 8.1.R |
| GLALLABN | 8.1.R |
| GLALLSUPV | 8.1.R |
| GLALTSIGSM | 8.1.R |
| GLALW_TTF | 8.1.R |
| GLAMADNS1 | 8.1.R |
| GLAMAERLOG | 8.1.R |
| GLAMAOPT | 8.1.R |
| GLANI_SM | 8.1.R |
| GLANSTIM | 8.1.R |
| GLAP_OPTION | 8.1.R |
| GLAPSDN | 8.1.R |
| GLAPTDUR | 8.1.R |
| GLAPTFRI | 8.1.R |
| GLAPTHTOD | 8.1.R |
| GLAPTMON | 8.1.R |
| GLAPTMTOD | 8.1.R |
| GLAPTSAT | 8.1.R |
| GLAPTSUN | 8.1.R |
| GLAPTTHR | 8.1.R |
| GLAPTTUE | 8.1.R |
| GLAPTWED | 8.1.R |
| GLASI_ON | 8.1.R |
| GLASIDEF10 | 8.1.R |
| GLASPNELTI | 8.1.R |
| GLATMLAYR | 8.1.R |
| GLAUTO_GDM | 8.1.R |
| GLBCL3MNTH | 8.1.R |
| GLBCL3MXTH | 8.1.R |
| GLBLORSND | 8.1.R |
| GLBRCSACD | 8.1.R |
| GLBRIRDTA | 8.1.R |

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| | |
|---|---|
| GLBTCHINH | 8.1.R |
| GLBTCHITV | 8.1.R |
| GLBTCHTOD | 8.1.R |
| GLC1MONITTR | 8.1.R |
| GLC2MONITTR | 8.1.R |
| GLC3MONITTR | 8.1.R |
| GLC4MONITTR | 8.1.R |
| GLCADALEN | 8.1.R |
| GLCADBLEN | 8.1.R |
| GLCALOC | 8.1.R |
| GLCALSM | 8.1.R |
| GLCARRID | 8.1.R |
| GLCARTONE | 8.1.R |
| GLCCS | 8.1.R, 15.1.R, 15.2.R, 15.3.R, 15.4.R, 15.5.R, 15.6.R, 15.7.R, 15.8.R, 15.9.R, 15.10.R, 15.11.R, 15.12.R, 15.14.R, 15.15.R, 15.16.R, 15.17.R, 15.18.R |
| GLCDTMFOVR | 8.1.R |
| GLCICP_BLK | 8.1.R |
| GLCLFTIM | 8.1.R |
| GLCLNHTOD | 8.1.R |
| GLCLNINH | 8.1.R |
| GLCM0VINT | 8.1.R |
| GLCM1VINT | 8.1.R |
| GLCMC_CONN | 8.1.R |
| GLCMCONV | 8.1.R |
| GLCMDTHRES | 8.1.R |
| GLCND_TIM | 8.1.R |
| GLCNIGI | 8.1.R |
| GLCOFFLEN | 8.1.R |
| GLCOINLIST | 8.1.R |
| GLCONG1QCP | 8.1.R |
| GLCONG2QCP | 8.1.R |
| GLCONLEN | 8.1.R |
| GLCOTPARAM | 8.1.R |
| GLCOTREPT | 8.1.R |
| GLCOTTIM | 8.1.R |
| GLCP2DUMMY | 8.1.R |
| GLCP3DUMMY | 8.1.R |
| GLCP4DUMMY | 8.1.R |
| GLCP5DUMMY | 8.1.R |
| GLCP6DUMMY | 8.1.R |
| GLCP7DUMMY | 8.1.R |
| GLCP8DUMMY | 8.1.R |
| GLCP9DUMMY | 8.1.R |
| GLCP10DUMMY | 8.1.R |
| GLCP11DUMMY | 8.1.R |
| GLCP12DUMMY | 8.1.R |
| GLCP13DUMMY | 8.1.R |
| GLCP14DUMMY | 8.1.R |
| GLCP15DUMMY | 8.1.R |
| GLCPERLEAK | 8.1.R |
| GLCPERTHRS | 8.1.R |
| GLCRAT | 8.1.R |
| GLCRITALRM | 8.1.R |
| GLCSMONITR | 8.1.R |
| GLCST_DAS | 8.1.R |
| GLCUTOVER | 8.1.R |
| GLCWALERT | 8.1.R |
| GLCWCONF | 8.1.R |
| GLCWDEFANN | 8.1.R |
| GLCWDEFOPT | 8.1.R |
| GLCWDEFTIM | 8.1.R |
| GLCWFLTIM | 8.1.R |
| GLCWHLDANN | 8.1.R |
| GLCWHLDTIM | 8.1.R |
| GLCWOPTANN | 8.1.R |
| GLDAYLIGHT | 8.1.R |
| GLDCOWAIT | 8.1.R |
| GLDFLTSRV | 8.1.R |
| GLDIDTO | 8.1.R |
| GLDIGTM | 8.1.R |
| GLDIGZERO | 8.1.R |

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| | |
|---|---|
| GLDISPDN10 | 8.1.R |
| GLDLNEQ | 8.1.R |
| GLDLN | 8.1.R |
| GLDLTACTN | 8.1.R |
| GLDN_PRIV | 8.1.R |
| GLDRCOUNTTYPE | 8.1.R |
| GLDRON | 8.1.R |
| GLDSCBK | 8.1.R |
| GLDSK_SZE | 8.1.R |
| GLDSNOPT | 8.1.R |
| GLDSSPEED | 8.1.R |
| GLDTO_O | 8.1.R |
| GLE9CESID | 8.1.R |
| GLE911APID | 8.1.R |
| GLE911DAS | 8.1.R |
| GLE911LNSFG | 8.1.R |
| GLE911OP | 8.1.R |
| GLE911SCNX | 8.1.R |
| GLE911SEC | 8.1.R |
| GLE911TKSFG | 8.1.R |
| GLEADOPT | 8.1.R |
| GLEAOVTIME | 8.1.R |
| GLEATIME | 8.1.R |
| GLEC_ACT | 8.1.R |
| GLESA_TIME | 8.1.R |
| GLESCSHARD | 8.1.R |
| GLESPNORM | 8.1.R |
| GLEXINBND | 8.1.R |
| GLEXMDT | 8.1.R |
| GLEXPORT | 8.1.R |
| GLFAIL_ID | 8.1.R |
| GLFC_T1 | 8.1.R |
| GLFCRTHRSH | 8.1.R |
| GLFGDPH | 8.1.R |
| GLFL_AGE | 8.1.R |
| GLFSESDEF | 8.1.R |
| GLGBRSND | 8.1.R |
| GLGRSRSND | 8.1.R |
| GLGURSND | 8.1.R |
| GLHIHLD | 8.1.R |
| GLHIRNG | 8.1.R |
| GLHITLK | 8.1.R |
| GLHMMISC | 8.1.R |
| GLHMSUM | 8.1.R |
| GLHOLIDAY | 8.1.R |
| GLHOMENPA | 8.1.R |
| GLHRIWTOF | 8.1.R |
| GLHRLY | 8.1.R |
| GLIBUSY | 8.1.R |
| GLICSUPV | 8.1.R |
| GLICTERM | 8.1.R |
| GLIDPDESEP | 8.1.R |
| GLIGNSCRN | 8.1.R |
| GLILC | 8.1.R |
| GLILEC | 8.1.R |
| GLIMLT2 | 8.1.R |
| GLINAC_TIM | 8.1.R |
| GLINCWINK | 8.1.R |
| GLINH_SNPA | 8.1.R |
| GLINHPREX | 8.1.R |
| GLINIC | 8.1.R |
| GLINPA | 8.1.R |
| GLISBRPPMW | 8.1.R |
| GLISDAM | 8.1.R |
| GLISTNPPMW | 8.1.R |
| GLISTWPPMW | 8.1.R |
| GLISVAM | 8.1.R |
| GLIVL_MDII | 8.1.R |
| GLIWLEC | 8.1.R |
| GLJIP | 8.1.R |
| GLLATA_NUM | 8.1.R |
| GLLCMLEN | 8.1.R |

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| | |
|---|---|
| GLLDCWTRMT | 8.1.R |
| GLLDPNSCID | 8.1.R |
| GLLDPOFF | 8.1.R |
| GLLDPONSC | 8.1.R |
| GLLDPTNSC | 8.1.R |
| GLLNDAS | 8.1.R |
| GLLNP_DFR | 8.1.R |
| GLLNPDFRSC | 8.1.R |
| GLLOCABN | 8.1.R |
| GLLOCALCOIN | 8.1.R |
| GLLOCANS | 8.1.R |
| GLLOCSUPV | 8.1.R |
| GLMAJALRM | 8.1.R |
| GLMAN_DI | 8.1.R |
| GLMAX_FM_RC | 8.1.R |
| GLMAXCONV | 8.1.R |
| GLMAXTKGS | 8.1.R |
| GLMEM_SZE | 8.1.R |
| GLMINALRM | 8.1.R |
| GLMISMA | 8.1.R |
| GLMJR_MDII | 8.1.R |
| GLMSEXC | 8.1.R |
| GLMSLUBK | 8.1.R |
| GLMSRTBR | 8.1.R |
| GLMSSTAT | 8.1.R |
| GLMSSYDY | 8.1.R |
| GLMSTGBK | 8.1.R |
| GLMSTMCI | 8.1.R |
| GLMSTMR | 8.1.R |
| GLMSUSGTYP | 8.1.R |
| GLMTTST | 8.1.R |
| GLMXMON | 8.1.R |
| GLNAITOLL | 8.1.R |
| GLNETREL | 8.1.R |
| GLNRGSLN | 8.1.R |
| GLNSDBAVL | 8.1.R |
| GLNST_ALL | 8.1.R |
| GLNXTLDTOD | 8.1.R |
| GLOCTLOPEN | 8.1.R |
| GLOCTLTONE | 8.1.R |
| GLODBAMA | 8.1.R |
| GLOFCAR | 8.1.R |
| GLOFRDEFTTY | 8.1.R |
| GLOFRDURATION | 8.1.R |
| GLOFRENAB | 8.1.R |
| GLOFRFRI | 8.1.R |
| GLOFRHRSTART | 8.1.R |
| GLOFRMON | 8.1.R |
| GLOFRSAT | 8.1.R |
| GLOFRSUN | 8.1.R |
| GLOFRTHUR | 8.1.R |
| GLOFRTUE | 8.1.R |
| GLOFRWED | 8.1.R |
| GLOFTYP | 8.1.R |
| GLONEND | 8.1.R |
| GLOPAMA | 8.1.R |
| GLOPC | 8.1.R |
| GLOR_RESLD | 8.1.R |
| GLOR_UNBLD | 8.1.R |
| GLORGBLTRG | 8.1.R |
| GLORGNATRG | 8.1.R |
| GLORIG1DAS | 8.1.R |
| GLORIG2DAS | 8.1.R |
| GLOTEND | 8.1.R |
| GLOVLP_SIZE | 8.1.R |
| GLP1SILC | 8.1.R |
| GLP2SILC | 8.1.R |
| GLPBGMOD | 8.1.R |
| GLPCTFI | 8.1.R |
| GLPDNIC | 8.1.R |
| GLPIC2 | 8.1.R |
| GLPIC3 | 8.1.R |

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| | |
|---|---|
| GLPIC4 | 8.1.R |
| GLPMINT | 8.1.R |
| GLPMMAX | 8.1.R |
| GLPMRAT | 8.1.R |
| GLPMTIM | 8.1.R |
| GLPOFFLOSS | 8.1.R |
| GLPOTENT | 8.1.R |
| GLPPIDLE | 8.1.R |
| GLPRIMALG | 8.1.R |
| GLPRODUCT | 8.1.R |
| GLPRT_TTF | 8.1.R |
| GLPRTCD | 8.1.R |
| GLPRTMI | 8.1.R |
| GLPSEUDO_CARR | 8.1.R |
| GLPSINPA | 8.1.R |
| GLPSN | 8.1.R |
| GLPVN_ANI | 8.1.R |
| GLPVN_OFC | 8.1.R |
| GLPVN_RESP | 8.1.R |
| GLQCKTHRHD | 8.1.R |
| GLRALMMOD | 8.1.R |
| GLRALMTMG | 8.1.R |
| GLRBPSC | 8.1.R |
| GLRCD_3PT1 | 8.1.R |
| GLRCRCRIT | 8.1.R |
| GLRCRMAJOR | 8.1.R |
| GLRCRMINOR | 8.1.R |
| GLRCVBS | 8.1.R |
| GLRDTADAS | 8.1.R |
| GLRDTAPIC | 8.1.R |
| GLRDTASRNX | 8.1.R |
| GLRES_O | 8.1.R |
| GLRETRANS | 8.1.R |
| GLRETRYSRV | 8.1.R |
| GLRETRY | 8.1.R |
| GLREV_MAN | 8.1.R |
| GLRFOWFLG | 8.1.R |
| GLRIMAX | 8.1.R |
| GLRINGTOT | 8.1.R |
| GLRLCTIM | 8.1.R |
| GLRLGTIM | 8.1.R |
| GLRMSOPT | 8.1.R |
| GLRNMOPT | 8.1.R |
| GLRPBTIM | 8.1.R |
| GLRSCLONG | 8.1.R |
| GLRSCSHORT | 8.1.R |
| GLRTCD_OFC | 8.1.R |
| GLRTCDALRM | 8.1.R |
| GLRTGMD | 8.1.R |
| GLRVQTHRSH | 8.1.R |
| GLSALOSS | 8.1.R |
| GLSCC_ROP | 8.1.R |
| GLSCP_DAS | 8.1.R |
| GLSCP_TREC | 8.1.R |
| GLSEGSZ | 8.1.R |
| GLSENS1 | 8.1.R |
| GLSENS2 | 8.1.R |
| GLSETRKGP | 8.1.R |
| GLSF1DUMMY | 8.1.R |
| GLSF2DUMMY | 8.1.R |
| GLSF3DUMMY | 8.1.R |
| GLSF4DUMMY | 8.1.R |
| GLSF5DUMMY | 8.1.R |
| GLSF6DUMMY | 8.1.R |
| GLSF7DUMMY | 8.1.R |
| GLSF8DUMMY | 8.1.R |
| GLSF9DUMMY | 8.1.R |
| GLSF10DUMM | 8.1.R |
| GLSF11DUMM | 8.1.R |
| GLSF12DUMM | 8.1.R |
| GLSF15DUMM | 8.1.R |
| GLSF16DUMM | 8.1.R |

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| | |
|---|---|
| GLSFI_SW | 8.1.R |
| GLSIGIOPT | 8.1.R |
| GLSITRIG | 8.1.R |
| GLSPECABN | 8.1.R |
| GLSPEECH | 8.1.R |
| GLSPLOFC | 8.1.R |
| GLSPTWCAC | 8.1.R |
| GLSSP | 8.1.R |
| GLSST | 8.1.R |
| GLST_MNT | 8.1.R |
| GLSTRIGMAX | 8.1.R |
| GLSWFACPM | 8.1.R |
| GLSWPM | 8.1.R |
| GLT1OFN | 8.1.R |
| GLT301 | 8.1.R |
| GLT303 | 8.1.R |
| GLT306 | 8.1.R |
| GLT310 | 8.1.R |
| GLT316 | 8.1.R |
| GLT320 | 8.1.R |
| GLTCAPCIC | 8.1.R |
| GLTCW_ANSW | 8.1.R |
| GLTCW_DISC | 8.1.R |
| GLTD2DISP | 8.1.R |
| GLTDISC | 8.1.R |
| GLTDWIND | 8.1.R |
| GLTDXCARID | 8.1.R |
| GLTERA_DSK | 8.1.R |
| GLTHR_MDII | 8.1.R |
| GLTI_T1 | 8.1.R |
| GLTIMEZONE | 8.1.R |
| GLTM_RESLD | 8.1.R |
| GLTM_RT101 | 8.1.R |
| GLTM_UNBLD | 8.1.R |
| GLTMDA_INX | 8.1.R |
| GLTNIC | 8.1.R |
| GLTOLABN | 8.1.R |
| GLTOLSUPV | 8.1.R |
| GLTPCS_ALT | 8.1.R |
| GLTQTIM | 8.1.R |
| GLTRDTIM | 8.1.R |
| GLTRKBILL | 8.1.R |
| GLTSCREEN | 8.1.R |
| GLTSTNSC | 8.1.R |
| GLTSTRC | 8.1.R |
| GLUBLRSND | 8.1.R |
| GLUNBRESSC | 8.1.R |
| GLUSTWCAMA | 8.1.R |
| GLUSTWCCHRG | 8.1.R |
| GLUSTWCFID | 8.1.R |
| GLVIRTSW | 8.1.R |
| GLVT_PST | 8.1.R |
| GLZMICLATA | 8.1.R |
| NONE | 8.1.R, 8.9.R, 8.15.R, 8.18.R, 8.21.R, 8.22.R, 8.28.R, 8.31.R, 8.56.R, 13.1.R, 13.1.R, 15.1.R, B.2.R, C.1.R |
| NULL | 1.8.R, 1.10.R, 4.23.R, 23.30.R, 23.33.R, 23.34.R |
| RL96DFISID | 18.10.R, 20.6.R |
| RL96SIDLRT | 18.10.R, 18.15.R |
| RLAC_CF | 1.47.R, 12.47.R |
| RLAC_CQDET | 8.9.R, 21.22.R, 21.54.R, 21.57.R, 26.8.R, 26.9.R, 26.10.R, 27.51.R |
| RLAC_DESTX | 8.9.R, 21.22.R, 21.54.R, 21.57.R, 26.9.R, 26.10.R, 26.10.V |
| RLAC_OPTS | 1.47.R, 12.47.R |
| RLAC_PORT | 1.47.R |
| RLAC_TGRP | 21.22.R, 21.54.R, 26.9.R, 26.10.R, 26.10.V |
| RLAC_TKCT | 5.5.R, 5.9.V, 21.22.R, 21.23.R, 21.24.R, 21.25.R, 21.26.R, 21.41.R, 21.54.R |
| RLACB_CF | 12.10.R |
| RLACB_OPTS | 1.20.R, 12.10.R |
| RLACB_PORT | 1.20.R |
| RLACCGTTID | 16.25.R |
| RLACCSTT | 26.1.R, 26.40.R |
| RLACCT_CF | 1.42.R, 5.42.R, 12.42.R |

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| | |
|---|---|
| RLACCT_GP | 1.30.R, 1.31.R, 1.42.R, 4.5.R, 4.21.R, 5.30.R, 5.42.R, 24.4.R |
| RLACCT_PRT | 1.30.R, 1.42.R, 4.21.R, 4.22.R, 5.30.R, 5.42.R |
| RLACCT_RTG | 1.42.R, 4.22.R, 5.42.R |
| RLACCT_TM | 1.30.R, 1.42.R, 5.30.R, 5.42.R, 12.42.R |
| RLACCTOWN | 8.41.R, 26.48.R |
| RLACD_DN | 6.4.R, 6.5.R, 6.7.R, 6.10.R, 9.1.R, 10.3.R, 10.10.R, 21.4.R, 21.26.R, 21.41.R |
| RLACD_POS | 6.6.V |
| RLACDDISP | 6.5.R, 6.7.R, 6.10.R |
| RLACOFTRAN | 12.5.R, 12.6.R, 21.34.R, 23.2.R |
| RLACPFX | 8.20.R |
| RLACSR_GRP | 1.49.R, 4.47.R, 21.34.R, 23.2.R |
| RLACSR_LDM | 1.21.R, 1.26.R, 1.49.R, 5.21.R, 5.26.R, 21.34.R, 23.2.R |
| RLACSR_OPT | 1.49.R, 12.50.R |
| RLACSR_USR | 1.21.R, 1.49.R, 5.21.R, 21.34.R, 23.2.R |
| RLACT_SPR | 1.5.R, 1.6.R, 21.34.R, 22.5.R, 22.9.R, 22.21.R, 23.2.R, A.2.R |
| RLACTBFG | 12.3.R, 12.8.R, 12.9.R |
| RLAD1B_IDP | 1.51.R, 4.2.R, 5.51.R |
| RLAD1E_IDP | 1.51.R, 4.2.R, 5.51.R |
| RLAD1S_IDP | 1.51.R, 4.2.R, 5.51.R |
| RLAD2B_IDP | 1.51.R, 4.2.R, 5.51.R |
| RLAD2E_IDP | 1.51.R, 4.2.R, 5.51.R |
| RLAD2S_IDP | 1.51.R, 4.2.R, 5.51.R |
| RLADDON | 27.40.R |
| RLAFAC | 20.4.R |
| RLAGENTID | 6.1.R, 6.3.R, 6.10.R |
| RLAILSALL | 26.7.R |
| RLAILSDT | 26.7.R |
| RLAISCLS | 21.27.R, 21.57.R, 26.8.R, 26.10.R, 26.26.R |
| RLAIU2AP | 13.7.R, 13.8.R, 13.9.V, 20.16.R |
| RLAIU2RG | 19.16.R, 20.16.R |
| RLAIUPIDB | 19.16.R |
| RLALGTMRS | 16.3.R |
| RLALIASPC | 5.1.R |
| RLALT_HDR | 8.70.R |
| RLALT_PLNG | 8.72.R |
| RLALT_TRL | 8.71.R |
| RLAMCALL | 10.12.R |
| RLAMCC_FAM | 10.18.R |
| RLAMCMCID | 5.1.R, 10.16.R |
| RLAMTKGP | 5.1.R |
| RLANI_RMK | 8.58.R, 8.59.R |
| RLANIDX000 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX001 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX002 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX003 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX004 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX005 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX006 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX007 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX008 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX009 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX010 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX011 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX012 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX013 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX014 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX015 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX016 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX017 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX018 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX019 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX020 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX021 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX022 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX023 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX024 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX025 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX026 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX027 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX028 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX029 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX030 | 8.50.R, 8.52.R, 8.58.R |

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| | |
|---|---|
| RLANIDX031 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX032 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX033 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX034 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX035 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX036 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX037 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX038 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX039 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX040 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX041 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX042 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX043 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX044 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX045 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX046 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX047 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX048 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX049 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX050 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX051 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX052 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX053 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX054 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX055 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX056 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX057 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX058 | 8.50.R, 8.52.R, 8.58.R |
| RLANIDX059 | 8.50.R, 8.52.R, 8.58.R |
| RLANIIGRP | 26.26.R, 26.47.R |
| RLANIIITBL | 26.45.R |
| RLANIMOD | 8.50.R, 8.51.R, 8.58.R, 8.59.R |
| RLANNC_APL | 8.60.R, 8.61.R, 8.62.R, 8.63.R, 8.64.R, 8.70.R, 8.71.R, 10.17.R, 10.19.R, 21.54.R, 26.3.R, 27.61.R, 27.88.R |
| RLANNC_DIG | 8.60.R, 8.63.R |
| RLANNC_HDR | 8.61.R, 8.63.R, 10.17.R, 21.54.R, 26.3.R, 27.61.R, 27.88.R |
| RLANNC_TRL | 8.62.R, 8.63.R, 10.17.R |
| RLANNCONV | 27.97.R |
| RLAPC_INFO | 16.5.R, 16.6.R |
| RLAPCI_APC | 16.5.R, 16.6.R, 16.8.R, 16.9.R, 16.10.R |
| RLAPP2TSP | 7.11.R, 18.5.R, 18.15.R, 19.16.R |
| RLAPPFGRP | 1.29.R, 3.5.R, 4.5.R, 4.17.R, 4.21.R, 4.24.R, 4.46.R, 4.61.R, 5.1.R, 5.29.R, 7.3.R, 9.10.R, 10.5.R, 24.3.R, 24.4.R, 24.33.R |
| RLAPPL_PLAT | 8.17.R, 8.42.R, 16.24.R |
| RLAPSITE | 24.1.R, 24.7.R |
| RLAPXAMAP | 10.38.R |
| RLAQTE_ADP | 6.11.R, 21.30.R |
| RLAQTE_DAP | 6.11.R, 21.30.R |
| RLAR_CF | 1.48.R, 12.48.R |
| RLAR_LNSI | 10.22.R |
| RLAR_OPTS | 1.48.R, 12.4.V, 12.48.R |
| RLAR_PORT | 1.48.R |
| RLARALTFRL | 1.21.R, 5.21.R, 10.5.R, 10.8.R |
| RLARCF | 12.11.R |
| RLARGP | 1.21.R, 1.26.R, 1.30.R, 4.5.R, 5.21.R, 5.26.R, 5.30.R, 9.20.R, 10.5.R, 10.6.R, 10.8.R, 10.9.R, 24.4.R |
| RLARPORT | 1.5.R, 1.6.R, 1.21.R, 1.30.R, 1.49.R, 5.21.R, 5.30.R, 21.34.R, 23.2.R, A.2.R |
| RLARSCRN | 1.21.R, 5.21.R, 9.21.R, 10.5.R, 10.6.R, 10.22.R |
| RLARSEGSIG | 1.21.R, 5.21.R, 10.5.R, 10.7.R |
| RLARTCM | 1.21.R, 5.21.R, 10.5.R, 10.9.R |
| RLARTM | 1.21.R, 1.30.R, 5.21.R, 5.30.R, 12.11.R |
| RLASI_CF | 12.61.R |
| RLASI_GP | 1.61.R, 4.61.R |
| RLASI_OPTS | 12.61.R |
| RLASI_PORT | 1.61.R |
| RLASP_LTM | 1.64.R, 5.64.R |
| RLASP_PORT | 1.64.R, 5.64.R |
| RLASPN_OPT | 1.64.R, 5.64.R, 12.64.R |
| RLASPNPORT | 1.64.R, 5.64.R |
| RLASPO_OPT | 1.64.R, 5.64.R, 12.64.R |
| RLASPT_OPT | 1.64.R, 5.64.R, 12.64.R |

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| | |
|---|---|
| RLAT_CF | 12.46.R |
| RLAT_GRP | 1.30.R, 1.46.R, 4.5.R, 4.46.R, 5.30.R |
| RLAT_ID | 1.46.R, 4.46.R, 12.46.R |
| RLAT_OPTS | 1.30.R, 5.30.R, 12.4.V, 12.46.R |
| RLAT_PORT | 1.30.R, 1.46.R, 5.30.R |
| RLAT_PRTGP | 1.46.R |
| RLATCNTMSK | 1.5.R, 1.6.R, 1.46.R, 3.5.R, 4.28.V, 4.29.R, 21.34.R, 23.2.R, 23.20.R |
| RLATH_CF | 12.41.R |
| RLATH_CODE | 4.18.R |
| RLATH_FCOS | 1.41.R, 4.19.R, 5.41.R |
| RLATH_GRP | 1.30.R, 1.41.R, 4.5.R, 4.17.R, 4.18.R, 4.19.R, 5.30.R, 5.41.R, 24.4.R |
| RLATH_PRT | 1.30.R, 1.41.R, 5.30.R, 5.41.R |
| RLATH_TM | 1.30.R, 1.41.R, 5.30.R, 5.41.R, 12.41.R |
| RLATSDATA | 14.9.R |
| RLATSFTBTN | 12.5.R |
| RLATSPARAM | 14.9.R, 14.10.R |
| RLAUT_REC | 21.2.R, 21.8.R, 21.8.V, 21.16.R, 21.16.V, 21.17.R, 21.17.V, 21.18.R, 21.18.V, 21.22.R |
| RLB900NB | 27.59.R |
| RLB900NH | 27.59.R |
| RLB900RH | 27.59.R |
| RLBCL_CF | 1.62.R, 12.62.R |
| RLBCL_GRP | 1.62.R, 4.62.R |
| RLBCL_LTM | 1.62.R |
| RLBCL_MHTG | 1.62.R, 3.5.R, 5.1.R |
| RLBCL_OPTS | 1.62.R, 5.1.R, 12.62.R |
| RLBCLLTH | 1.62.R |
| RLBFGMATCH | 1.11.R, 1.11.V, 1.26.R, 1.37.R, 4.48.R, 5.11.R, 5.26.R, 6.6.V, 12.8.R, 12.9.R, 23.15.R |
| RLBIKYPM | 3.5.R, 3.9.R, 21.34.R, 23.2.R, 23.20.R |
| RLBLVSCRN | 27.10.R |
| RLBNFEAT | 12.5.R, 12.6.R, 12.7.R, 21.34.R, 23.2.R, 23.17.R, 23.22.V, 23.24.R |
| RLBTBPG | 5.5.R, 5.9.V, 8.13.R, A.5.R |
| RLBTCHREL | B.1.R |
| RLC7L3TMRS | 16.2.R |
| RLCARRGRP | 27.55.R, 27.68.R, 27.69.R |
| RLCASE_IDX | C.4.R |
| RLCC_00X | 8.8.R |
| RLCC_NAME | 27.80.R, 27.81.R, 27.82.R, 27.85.R, 27.86.R, 27.87.R, 27.90.R |
| RLCC_ONPA | 8.8.R |
| RLCC_PCC | 27.3.R |
| RLCCSFEATS | 8.15.R |
| RLCDFI_CON | 7.41.V, 18.9.R, 20.4.R, 23.41.V |
| RLCDFI_MAP | 18.5.V, 18.9.R |
| RLCDNCHAN | 4.14.R, 23.2.R, 23.3.R, C.4.R |
| RLCF_CF | 12.4.V, 12.5.R, 12.6.R, 12.7.R, 12.12.R |
| RLCF_LDN | 1.22.R, 3.5.R, 4.14.R, 21.34.R, 23.2.R |
| RLCF_LTM | 1.22.R, A.2.R |
| RLCF_OPTS | 1.22.R, 12.12.R, A.2.R |
| RLCFPF_LTM | 1.22.R |
| RLCGA_STAT | 5.5.R, 5.9.V, 8.10.R, 8.10.V, 8.13.R, 18.15.R, 20.4.R, 20.6.R, 20.12.R, 20.23.R, 20.24.R, 22.9.R, 22.10.R |
| RLCGA_TRANS | 5.5.R, 5.9.V, 8.10.R, 8.10.V, 8.13.R, A.5.R |
| RLCGATYPE | 1.5.R, 1.6.R, 8.10.R, 8.10.V, 8.13.R, 18.1.R, A.2.R |
| RLCHGTBL | 10.11.R, 10.14.R |
| RLCHKLST | 8.19.R |
| RLCHPERM | 27.81.R |
| RLCHRGIDXEXP | 10.6.R, 10.10.R, 10.11.R, 10.12.R, 10.13.R, 10.14.R |
| RLCICPHRAS | 27.66.R |
| RLCKT_PORT | 16.6.R, 17.24.R, 18.15.R, 20.16.R, 22.21.R, 23.15.R, C.4.R |
| RLCKT_REL | 18.5.R, 18.15.R, 19.14.R, 19.16.R, 20.4.R, 20.12.R, 20.16.R, 20.24.R |
| RLCKT2GRP | 18.15.R |
| RLCKTCDDIG | 10.23.R |
| RLCKTDATA | 1.5.R, 1.6.R, 1.11.R, 1.11.V, 5.1.R, 5.2.R, 5.5.R, 5.7.V, 5.8.V, 5.9.V, 5.11.R, 6.11.R, 7.11.R, 7.41.V, 7.42.V, 8.12.R, 8.14.R, 13.6.R, 13.7.R, 13.8.R, 13.9.V, 14.6.R, 14.7.R, 16.1.R, 16.6.R, 16.17.R, 18.1.R, 18.2.R, 18.2.V, 18.3.R, 18.3.V, 18.4.R, 18.4.V, 18.5.R, 18.5.V, 18.6.V, 18.7.V, 18.9.R, 18.10.R, 18.11.R, 18.12.R, 18.15.R, 18.16.R, 18.17.R, 19.1.R, 19.2.R, 19.5.R, 19.6.R, 19.7.R, 19.9.R, 19.10.R, 19.11.R, 19.12.R, 19.13.R, 19.14.R, |

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| | |
|---|---|
| | 19.16.R, 19.18.R, 19.19.R, 19.20.R, 19.21.R, 19.22.R, 20.1.R, 20.1.V, 20.2.R, 20.3.V, 20.4.R, 20.5.R, 20.5.V, 20.6.R, 20.7.R, 20.7.V, 20.8.R, 20.9.R, 20.10.R, 20.11.R, 20.12.R, 20.16.R, 20.20.R, 20.21.R, 20.22.R, 20.23.R, 20.24.R, 20.26.R, 21.30.R, 21.34.R, 21.45.R, 22.1.R, 22.2.R, 22.2.V, 22.3.R, 22.4.R, 22.5.R, 22.6.R, 22.6.V, 22.7.R, 22.8.R, 22.8.V, 22.9.R, 22.10.R, 22.16.R, 22.17.R, 22.19.V, 22.20.V, 22.21.R, 22.22.R, 22.23.V, 23.2.R, 23.20.R, 23.21.R, 23.40.R, 23.41.V, 23.42.V, A.2.R |
| RLCKTLNK | 22.22.R |
| RLCL_MATES | 18.1.R, 18.5.R, 18.9.R |
| RLCLIDAT | 3.5.R, 4.9.R, 4.9.V, 5.1.R, 8.12.R, 8.14.R, 18.1.R, 18.5.R, 18.8.R, 18.8.V, 18.9.R, 18.10.R, 18.15.R, 19.1.R, 19.2.R, 20.11.R |
| RLCLRKINFO | B.1.R |
| RLCLS_LS | 16.5.R, 16.7.R, 16.8.R, 16.9.R, 16.10.R |
| RLCLU_CLIX | 5.1.R, 13.7.R, 13.8.R, 13.9.V, 16.8.R, 16.9.R, 16.10.R, 16.22.R |
| RLCLU_INFO | 16.9.R |
| RLCMAPDATA | 3.5.R, 4.37.R, 4.38.R, 4.47.R, 4.62.R, 8.1.R, 24.1.R, 24.2.R, 24.3.R, 24.4.R, 24.5.R, 24.7.R, 24.12.R, 24.33.R |
| RLCMP_CRD | 27.45.R, 27.55.R |
| RLCMTPATH | 5.5.R, 5.9.V, 8.42.R, 16.16.R, 17.24.R |
| RLCNB_CAS | 27.53.R |
| RLCNF6_CKT | 19.19.R, 20.5.R |
| RLCNF10CKT | 19.19.R |
| RLCNH_CAS | 8.9.R, 27.53.R |
| RLCNTYLANG | 27.89.R, 27.95.R |
| RLCO_TMRS | 16.20.R, 16.21.R |
| RLCOI_GPID | 10.32.V, 10.33.R |
| RLCOI_USE | 1.31.R, 10.32.V |
| RLCOLLFAC | C.3.V, C.4.R |
| RLCOT_CF | 12.49.R |
| RLCPM_UNIT | 19.19.R |
| RLCPNBN_CF | 1.11.R, 5.11.R, 12.52.R |
| RLCQMASK | 6.1.R, 6.2.V, 6.4.R |
| RLCQPARM | 6.1.R, 6.4.R, 6.7.R, 6.10.R |
| RLCRD_ATTR | 27.55.R, 27.56.R, 27.57.V |
| RLCRDPRD | 27.61.R |
| RLCRI_CRN | 10.3.R |
| RLCRN_CRI | 10.3.R |
| RLCSR_ATTR | 27.55.R, 27.58.R |
| RLCTDECCKT | 20.21.R |
| RLCTINFO | 8.9.R, 10.2.R, 10.25.R, 21.2.R, 21.7.R, 21.8.R, 21.17.R, 21.22.R, 21.23.R, 21.41.R, 21.54.R, 21.55.R, 21.56.V, 26.8.R, 26.9.R, 26.10.R, 27.95.R |
| RLCTTUCB | 14.4.R |
| RLCV_ADMGP | 16.10.R, 16.20.R, 16.22.R, 16.24.R |
| RLCV_DSTDN | 10.2.R, 10.25.R, 21.41.R, 21.42.R |
| RLCV_VECTR | 21.23.R, 21.41.R |
| RLCW_CF | 12.5.R, 12.15.R |
| RLCW_OPTS | 1.24.R, 5.24.R, 12.4.V, 12.15.R |
| RLCW_PORT | 1.24.R, 5.24.R |
| RLDA_3DIGIT | 9.4.R |
| RLDA_AMBIG | 4.5.R, 9.2.R, 9.3.R, 9.6.R, 9.9.R, 9.15.R, 9.24.V, A.7.R, A.8.R |
| RLDA_CONFLCT | 9.3.R, 9.6.R, 9.9.R, 9.24.V, 9.25.R, 21.27.R, A.7.R, A.8.R |
| RLDA_DIGSTRT | 6.10.R, 7.3.R, 8.9.R, 9.1.R, 9.41.R, 10.19.R, 21.2.R, A.8.R |
| RLDA_ENH | 26.26.R |
| RLDA_TIMER | 4.1.R, 5.5.R, 5.9.V, 8.5.R |
| RLDAA_DN | 6.4.R, 6.5.R, 6.7.R, 6.10.R, 9.1.R, 10.3.R, 10.10.R, 21.4.R, 21.26.R, 21.41.R |
| RLDACC_TRT | 8.61.R, 27.88.R |
| RLDAPRLDGT | 4.5.R, 9.1.R, 9.2.R, 9.5.R, 9.24.V, A.8.R |
| RLDAPRLFNL | 4.5.R, 9.2.R, 9.5.R, 9.24.V, 21.27.R, A.8.R |
| RLDAPRMDGT | 9.1.R, 9.3.R, 9.6.R, 9.9.R, 9.15.R, 9.24.V, 9.25.R, A.7.R, A.8.R |
| RLDAPRMFNL | 9.3.R, 9.9.R, 9.15.R, 9.24.V, 9.25.R, 21.27.R, A.7.R, A.8.R |
| RLDAS_SCRN | 8.26.R |
| RLDB_AMGPD | 1.5.R, 1.6.R, 1.9.R, 1.11.R, 1.11.V, 1.15.V, 1.21.R, 1.22.R, 1.23.R, 1.25.R, 1.26.R, 1.28.R, 1.29.R, 1.30.R, 1.31.R, 1.33.R, 1.37.R, 1.38.R, 1.41.R, 1.42.R, 1.45.R, 1.46.R, 1.47.R, 1.48.R, 1.49.R, 1.51.R, 1.60.R, 1.60.V, 1.61.R, 3.3.R, 3.5.R, 3.6.R, 3.7.V, 3.40.R, 4.2.R, 4.4.R, 4.5.R, 4.9.R, 4.9.V, 4.10.R, 4.10.V, 4.14.R, 4.17.R, 4.18.R, 4.19.R, 4.21.R, 4.22.R, 4.24.R, 4.26.V, 4.28.V, 4.29.R, 4.37.R, 4.38.R, 4.46.R, 4.47.R, 4.61.R, 5.1.R, 5.5.R, |

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| | |
|---|---|
| | 5.9.V, 5.11.R, 5.13.R, 5.21.R, 5.26.R, 5.28.R, 5.29.R, 5.30.R, 5.31.R, 5.33.R, 5.34.R, 5.34.V, 5.41.R, 5.42.R, 5.51.R, 6.7.R, 6.11.R, 7.1.R, 7.2.R, 7.3.R, 7.4.R, 7.5.R, 7.12.R, 7.41.V, 8.1.R, 8.9.R, 8.10.V, 8.11.R, 8.13.R, 8.14.R, 8.16.R, 8.30.R, 8.41.R, 8.51.R, 8.59.R, 8.61.R, 8.66.R, 8.67.R, 8.70.R, 8.71.R, 8.72.R, 9.1.R, 9.3.R, 9.6.R, 9.8.R, 9.10.R, 9.11.R, 9.12.R, 9.13.R, 9.15.R, 9.20.R, 9.21.R, 9.22.R, 9.23.R, 9.24.V, 9.25.R, 9.26.R, 9.27.R, 10.2.R, 10.3.R, 10.4.R, 10.5.R, 10.6.R, 10.7.R, 10.8.R, 10.9.R, 10.10.R, 10.20.R, 10.21.R, 10.24.R, 10.31.R, 10.34.R, 10.35.R, 11.1.R, 12.3.R, 12.4.V, 12.5.R, 12.6.R, 12.7.R, 12.8.R, 12.9.R, 12.31.R, 13.3.R, 13.3.V, 14.3.R, 14.4.R, 17.2.R, 17.11.R, 17.12.R, 17.13.R, 17.14.R, 17.16.R, 17.17.R, 17.18.R, 17.21.R, 18.1.R, 18.8.R, 18.8.V, 18.10.R, 19.1.R, 19.2.R, 19.4.R, 19.5.R, 19.6.R, 19.7.R, 19.9.R, 19.10.R, 19.11.R, 19.15.R, 19.19.R, 20.4.R, 20.8.R, 20.11.R, 20.12.R, 20.16.R, 20.23.R, 20.24.R, 20.25.R, 21.1.R, 21.2.R, 21.3.V, 21.4.R, 21.5.R, 21.5.V, 21.6.R, 21.7.R, 21.8.R, 21.17.R, 21.18.R, 21.22.R, 21.23.R, 21.26.R, 21.27.R, 21.30.R, 21.32.R, 21.33.R, 21.34.R, 21.41.R, 21.45.R, 21.51.R, 21.52.R, 21.53.R, 21.54.R, 21.55.R, 21.56.V, 21.58.R, 21.60.R, 21.61.R, 22.2.R, 22.3.R, 22.4.R, 22.5.R, 22.7.R, 22.8.R, 22.9.R, 22.10.R, 22.11.R, 22.15.R, 22.21.R, 23.2.R, 23.12.R, 23.15.R, 23.16.R, 23.17.R, 23.20.R, 23.21.R, 23.22.V, 23.23.R, 23.40.R, 23.41.V, 24.4.R, 24.9.R, 24.10.R, 24.11.R, 24.12.R, 24.33.R, 25.1.R, 26.1.R, 26.2.R, 26.2.V, 26.3.R, 26.4.R, 26.5.V, 26.6.R, 26.8.R, 26.9.R, 26.10.R, 26.11.R, 26.11.V, 26.12.R, 26.13.R, 26.14.R, 26.15.R, 26.20.R, 26.21.R, 26.24.R, 26.25.R, 26.26.R, 26.30.R, 26.31.R, 26.32.R, 26.33.R, 26.34.R, 26.40.R, 27.1.R, 27.2.R, 27.3.R, 27.4.R, 27.5.R, 27.10.R, 27.11.R, 27.11.V, 27.12.R, 27.12.V, 27.20.R, 27.21.R, 27.22.V, 27.23.R, 27.30.R, 27.31.R, 27.32.R, 27.33.R, 27.34.R, 27.35.R, 27.40.R, 27.45.R, 27.53.R, 27.54.R, 27.55.R, 27.56.R, 27.57.V, 27.58.R, 27.59.R, 27.60.R, 27.65.R, 27.67.R, 27.69.R, 27.70.R, 27.75.R, 27.76.R, 27.77.R, 27.78.R, 27.81.R, 27.82.R, 27.83.R, 27.83.V, 27.84.R, 27.85.R, 27.87.R, 27.88.R, 27.89.R, 27.95.R, 27.96.R, 28.1.R, 28.2.R, 28.3.R, 28.4.R, 28.5.R, A.1.R, A.2.R, A.3.R, A.4.R, A.5.R, A.7.R, A.8.R |
| RLDB_GPDUS | 1.5.R, 1.6.R, 1.9.R, 1.11.R, 1.11.V, 1.15.V, 1.21.R, 1.22.R, 1.23.R, 1.25.R, 1.26.R, 1.28.R, 1.29.R, 1.30.R, 1.31.R, 1.33.R, 1.37.R, 1.38.R, 1.41.R, 1.42.R, 1.45.R, 1.46.R, 1.47.R, 1.48.R, 1.49.R, 1.51.R, 1.60.R, 1.60.V, 1.61.R, 3.3.R, 3.5.R, 3.6.R, 3.7.V, 4.2.R, 4.4.R, 4.5.R, 4.9.R, 4.9.V, 4.10.R, 4.10.V, 4.17.R, 4.18.R, 4.19.R, 4.21.R, 4.22.R, 4.24.R, 4.26.V, 4.28.V, 4.29.R, 4.37.R, 4.38.R, 4.46.R, 4.47.R, 4.61.R, 5.1.R, 5.5.R, 5.9.V, 5.11.R, 5.13.R, 5.21.R, 5.26.R, 5.28.R, 5.29.R, 5.30.R, 5.31.R, 5.33.R, 5.34.R, 5.34.V, 5.41.R, 5.42.R, 5.51.R, 7.1.R, 7.2.R, 7.3.R, 7.4.R, 7.5.R, 7.41.V, 8.9.R, 8.10.V, 8.11.R, 8.13.R, 8.14.R, 8.16.R, 9.1.R, 9.3.R, 9.6.R, 9.8.R, 9.10.R, 9.11.R, 9.12.R, 9.13.R, 9.15.R, 9.20.R, 9.21.R, 9.22.R, 9.23.R, 9.24.V, 9.25.R, 10.2.R, 10.4.R, 10.5.R, 10.6.R, 10.7.R, 10.8.R, 10.9.R, 10.19.R, 10.20.R, 10.21.R, 10.35.R, 11.1.R, 12.3.R, 12.5.R, 12.6.R, 12.7.R, 12.8.R, 12.9.R, 12.31.R, 13.3.R, 13.3.V, 14.3.R, 14.4.R, 17.2.R, 17.11.R, 17.12.R, 17.13.R, 17.14.R, 17.16.R, 17.17.R, 17.18.R, 17.21.R, 18.1.R, 18.8.R, 18.8.V, 18.10.R, 19.1.R, 19.2.R, 19.4.R, 19.5.R, 19.6.R, 19.7.R, 19.9.R, 19.10.R, 19.11.R, 19.15.R, 19.19.R, 20.4.R, 20.8.R, 20.11.R, 20.12.R, 20.16.R, 20.23.R, 20.24.R, 20.25.R, 21.2.R, 21.4.R, 21.5.R, 21.6.R, 21.17.R, 21.18.R, 21.26.R, 21.32.R, 21.33.R, 21.34.R, 21.45.R, 22.2.R, 22.4.R, 22.5.R, 22.7.R, 22.8.R, 22.9.R, 22.10.R, 22.11.R, 22.15.R, 22.21.R, 23.2.R, 23.12.R, 23.15.R, 23.16.R, 23.17.R, 23.20.R, 23.21.R, 23.22.V, 23.23.R, 23.40.R, 23.41.V, 24.33.R, 25.1.R, 25.1.V, A.2.R, A.5.R, A.7.R, A.8.R, A.13.R |
| RLDB_IMGPD | 1.5.R, 1.6.R, 1.9.R, 1.11.R, 1.11.V, 1.15.V, 1.21.R, 1.22.R, 1.23.R, 1.25.R, |

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|---|---|
| | 1.26.R, 1.28.R, 1.29.R, 1.30.R, 1.31.R, 1.33.R, 1.37.R, 1.38.R, 1.41.R, 1.42.R, 1.45.R, 1.46.R, 1.47.R, 1.48.R, 1.49.R, 1.51.R, 1.60.R, 1.60.V, 1.61.R, 3.3.R, 3.5.R, 3.6.R, 3.7.V, 4.2.R, 4.4.R, 4.5.R, 4.9.R, 4.9.V, 4.10.R, 4.10.V, 4.17.R, 4.18.R, 4.19.R, 4.21.R, 4.22.R, 4.24.R, 4.26.V, 4.28.V, 4.29.R, 4.37.R, 4.38.R, 4.46.R, 4.47.R, 4.61.R, 5.1.R, 5.5.R, 5.9.V, 5.11.R, 5.13.R, 5.21.R, 5.26.R, 5.28.R, 5.29.R, 5.30.R, 5.31.R, 5.33.R, 5.34.R, 5.34.V, 5.41.R, 5.42.R, 5.51.R, 7.1.R, 7.2.R, 7.3.R, 7.4.R, 7.5.R, 7.41.V, 8.9.R, 8.10.V, 8.11.R, 8.13.R, 8.14.R, 8.16.R, 9.1.R, 9.3.R, 9.6.R, 9.8.R, 9.10.R, 9.11.R, 9.12.R, 9.13.R, 9.15.R, 9.20.R, 9.21.R, 9.22.R, 9.23.R, 9.24.V, 9.25.R, 10.2.R, 10.4.R, 10.5.R, 10.6.R, 10.7.R, 10.8.R, 10.9.R, 10.20.R, 10.21.R, 10.35.R, 11.1.R, 12.3.R, 12.5.R, 12.6.R, 12.7.R, 12.8.R, 12.9.R, 12.31.R, 13.3.R, 13.3.V, 14.3.R, 14.4.R, 17.2.R, 17.11.R, 17.12.R, 17.13.R, 17.14.R, 17.16.R, 17.17.R, 17.18.R, 17.21.R, 18.1.R, 18.8.R, 18.8.V, 18.10.R, 19.1.R, 19.2.R, 19.4.R, 19.5.R, 19.6.R, 19.7.R, 19.9.R, 19.10.R, 19.11.R, 19.15.R, 19.19.R, 20.4.R, 20.8.R, 20.11.R, 20.12.R, 20.16.R, 20.23.R, 20.24.R, 20.25.R, 21.2.R, 21.4.R, 21.5.R, 21.6.R, 21.17.R, 21.18.R, 21.26.R, 21.32.R, 21.33.R, 21.34.R, 21.45.R, 22.2.R, 22.4.R, 22.5.R, 22.7.R, 22.8.R, 22.9.R, 22.10.R, 22.11.R, 22.15.R, 22.21.R, 23.2.R, 23.12.R, 23.15.R, 23.16.R, 23.17.R, 23.20.R, 23.21.R, 23.22.V, 23.23.R, 23.40.R, 23.41.V, 24.33.R, 25.1.R, A.2.R, A.7.R |
| RLDCHNPRI | 5.2.R, 5.5.R, 5.9.V |
| RLDCPSSS | 26.6.R, 27.81.R, 27.86.R |
| RLDDOMREST | 27.80.R, 27.81.R |
| RLDEHNP | 27.84.R, 27.85.R |
| RLDEHOCSM | 27.72.R, 27.84.R, 27.85.R, 27.87.R |
| RLDF2THRSH | 20.4.R, 22.15.R |
| RLDFI | 20.4.R |
| RLDFTST | 1.5.R, 1.6.R, 14.6.R |
| RLDGRP_RI | 6.11.R, 21.30.R, 21.34.R, 22.19.V, 22.20.V, 23.2.R, 24.7.R |
| RLDI_COMP | 9.7.R |
| RLDIORCCC | 27.90.R |
| RLDIORCPS | 26.6.R, 27.81.R, 27.82.R |
| RLDIORSD | 27.83.R, 27.83.V |
| RLDISP_CF | 1.5.R, 1.6.R, 8.21.R, 12.4.V, 12.43.R |
| RLDLDSL | 6.11.R, 21.1.R, 21.30.R, 21.34.R, 21.45.R, 21.51.R, 23.2.R, 23.40.R |
| RLDLTUINFO | 19.4.R |
| RLDN_ESP | 23.2.R |
| RLDN_FEATS | 1.5.R, 1.6.R, 1.11.R, 1.11.V, 1.12.R, 1.23.R, 1.29.R, 1.30.R, 1.37.R, 1.38.R, 1.62.R, 1.64.R, 4.3.R, 4.48.R, 5.11.R, 5.12.R, 5.29.R, 5.30.R, 5.64.R, 6.6.V, 12.8.R, 12.9.R, 23.20.R, A.2.R, A.3.R, A.10.R |
| RLDN_LOCDN | 21.34.R, 23.2.R |
| RLDN_LPT | 21.34.R, 23.2.R |
| RLDN_PSCM | 1.5.R, 1.6.R, 1.32.R, 21.34.R, 23.2.R, 23.20.R, 23.20.V |
| RLDN_RDTA | 22.17.R, 22.18.R |
| RLDNNTWK | 10.3.R, 26.20.R |
| RLDNRALST | 27.87.R |
| RLDNRARTE | 27.84.R, 27.87.R |
| RLDNU2EEC | 5.5.R, 5.9.V, 19.22.R |
| RLDPC_DPCI | 13.7.R, 13.8.R, 13.9.V, 16.1.R, 16.2.R, 16.5.R, 16.7.R, 16.8.R, 16.9.R, 16.10.R, 16.22.R |
| RLDPC_INFO | 16.2.R, 16.5.R, 16.7.R, 16.10.R |
| RLDPC_SSN | 16.10.R, 16.22.R |
| RLDPCIND | 16.20.R, 16.22.R, 16.24.R, 16.25.R |
| RLDPIDB_PT | 6.11.R, 18.15.R, 19.12.R, 19.16.R, 20.13.V, 21.30.R, 21.34.R, 21.45.R, 22.5.R, 22.12.V, 22.23.V, 23.2.R, 23.13.R, 24.7.R, A.2.R |
| RLDR_CF | 12.16.R |
| RLDR_LTM | 1.25.R |
| RLDR_OPTS | 1.25.R, 12.16.R |
| RLDS_APP | 8.17.R, 8.42.R |
| RLDS_SSN | 8.17.R |
| RLDS1_PT | 5.5.R, 5.9.V, 7.11.R, 18.15.R, 20.23.R, 23.2.R |
| RLDS1SID | 18.15.R |
| RLDS12RT | 18.15.R, 20.13.V, 20.23.R, 22.14.V |
| RLDSC3PIDB | 19.18.R, 19.19.R |

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| RLDSCPORTS | 7.11.R |
| RLDSLEQUIP | 1.49.R, 4.14.R, 5.2.R, 5.5.R, 5.9.V, 6.10.R, 6.11.R, 7.41.V, 7.42.V, 13.7.R, 13.8.R, 13.9.V, 16.2.R, 16.6.R, 16.11.V, 16.17.R, 17.24.R, 18.15.R, 20.4.R, 20.13.V, 21.30.R, 21.31.V, 21.34.R, 21.45.R, 22.12.V, 22.13.R, 22.14.V, 22.19.V, 22.20.V, 22.23.V, 23.1.V, 23.2.R, 23.3.R, 23.9.V, 23.10.R, 23.12.R, 23.20.R, 23.21.R, 23.40.R, 23.41.V, 23.42.V, 24.7.R, 27.30.R, 33.2.R, A.2.R, C.4.R |
| RLDSLGDATA | 5.5.R, 5.6.V, 5.8.V, 5.9.V, 6.11.R, 16.1.R, 16.2.R, 16.5.R, 16.6.R, 16.11.V, 16.16.R, 16.17.R, 16.21.R, 17.24.R, 18.15.R, 21.30.R, 21.31.V, 21.34.R, 21.45.R, 22.4.R, 22.13.R, 22.16.R, 22.20.V, 22.22.R, 23.2.R, 23.14.R, 23.40.R, 24.7.R, 33.1.R |
| RLDSLXN | 24.7.R |
| RLDSP_MSG | 8.65.R |
| RLDSTID_RR | 21.7.R, 21.8.R, 21.8.V, 21.9.V, 21.27.R, 27.52.R |
| RLDTGSTRAN | 3.5.R, 5.1.R, 7.3.R, 12.5.R, 12.7.R, 21.34.R, 23.2.R |
| RLDYNACL | 12.2.R |
| RLE911_SFG | 7.3.R, 8.1.R |
| RLE911PSAP | 5.1.R |
| RLE911SA | 8.1.R, 9.40.R |
| RLEC5OPTS | 20.4.R |
| RLEDS_CF | 1.38.R, 12.38.R |
| RLEDS_GRP | 1.37.R, 1.38.R, 4.38.R, 24.9.R, 24.10.R, 24.11.R |
| RLEDS_OPTS | 1.38.R, 12.4.V, 12.38.R |
| RLEDS_PORT | 1.37.R, 1.38.R |
| RLEDSLDCHN | 5.5.R, 5.9.V |
| RLEDSLGPRT | 5.1.R, 5.5.R, 5.9.V, 5.34.R, 5.34.V |
| RLEDSLTRKG | 5.1.R, 5.5.R, 5.9.V, 5.34.R, 7.5.R |
| RLEIS_DATA | 6.11.R, 21.30.R, 21.51.R, 21.52.R, 21.54.R, 21.55.R, 21.58.R |
| RLEIS_RCL | 21.7.R, 21.8.R, 21.22.R, 21.54.R, 21.56.V |
| RLEIS_SM | 6.11.R, 21.30.R, 21.52.R |
| RLEISDSL | 6.11.R, 21.30.R, 21.51.R |
| RLENETLINK | 19.20.R, 19.21.R, 19.22.R |
| RLENETPIPE | 19.20.R, 19.21.R |
| RLEPO_POS | 6.15.V, 23.2.R, 23.8.R, 23.8.V, 23.20.R, 23.20.V, 23.21.R, 23.21.V |
| RLEQUIPDSL | 1.5.R, 1.6.R, 5.3.R, 5.5.R, 5.6.V, 5.8.V, 5.9.V, 6.10.R, 6.11.R, 7.13.V, 16.2.R, 16.6.R, 16.11.V, 16.17.R, 17.24.R, 18.15.R, 21.30.R, 21.31.V, 21.34.R, 21.45.R, 22.13.R, 23.2.R, 23.3.R, 23.9.V, 23.10.R, 23.11.R, 23.14.R, 23.40.R, 24.7.R, 33.2.R, A.2.R, A.11.R, C.4.R |
| RLESCO | 5.1.R, 9.1.R, 9.40.R, 9.41.R |
| RLESN_MAP | 9.40.R |
| RLESNTRAN | 9.40.R, 9.41.R |
| RLESPINFO | 27.65.R |
| RLEXPACD | 26.8.R, 26.8.V, 26.9.R |
| RLF_VPIDB | 18.15.R, 20.24.R |
| RLFAC_CAB | 19.12.R |
| RLFAC_PROV | 5.5.R, 5.9.V, 20.12.R, 20.24.R |
| RLFACADDSC | 1.51.R, 4.2.R, 5.51.R, 12.2.R |
| RLFACFTDSC | 1.11.R, 1.11.V, 1.12.R, 1.20.R, 1.21.R, 1.22.R, 1.23.R, 1.24.R, 1.25.R, 1.28.R, 1.33.R, 1.38.R, 1.41.R, 1.42.R, 1.45.R, 1.46.R, 1.47.R, 1.48.R, 1.49.R, 1.51.R, 1.61.R, 1.62.R, 1.64.R, 4.3.R, 4.5.R, 4.12.R, 4.17.R, 4.21.R, 4.22.R, 4.37.R, 4.38.R, 4.46.R, 4.47.R, 4.48.R, 4.61.R, 4.62.R, 5.4.R, 5.11.R, 5.12.R, 5.21.R, 5.24.R, 5.28.R, 5.33.R, 5.41.R, 5.42.R, 5.51.R, 5.64.R, 9.2.R, 9.10.R, 9.13.R, 9.24.V, 10.7.R, 10.8.R, 10.9.R, 12.1.R, 12.2.R, 12.8.R, 12.10.R, 12.11.R, 12.12.R, 12.13.R, 12.14.R, 12.15.R, 12.16.R, 12.17.R, 12.18.R, 12.19.R, 12.20.R, 12.21.R, 12.22.R, 12.31.R, 12.33.R, 12.37.R, 12.38.R, 12.40.R, 12.41.R, 12.42.R, 12.43.R, 12.44.R, 12.45.R, 12.46.R, 12.47.R, 12.48.R, 12.49.R, 12.50.R, 12.51.R, 12.52.R, 12.53.R, 12.54.R, 12.55.R, 12.56.R, 12.57.R, 12.58.R, 12.59.R, 12.61.R, 12.62.R, 12.64.R, 24.9.R, 24.10.R, 24.11.R, 24.33.R |
| RLFACIDS | 1.11.R, 1.11.V, 1.12.R, 1.21.R, 1.22.R, 1.23.R, 1.24.R, 1.25.R, 1.27.R, 1.29.R, 1.30.R, 1.31.R, 1.33.R, 1.38.R, 1.41.R, 1.42.R, 1.45.R, 1.46.R, 1.47.R, 1.48.R, 1.49.R, 1.62.R, 3.5.R, 3.40.R, 4.2.R, 4.3.R, 4.5.R, 4.8.V, 4.17.R, 4.18.R, 4.19.R, 4.20.V, 4.21.R, 4.22.R, 4.24.R, 4.37.R, 4.38.R, |

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| | 4.46.R, 4.47.R, 4.48.R, 4.62.R, 5.1.R, 5.4.R, 5.5.R, 5.9.V, 5.11.R, 5.12.R, 5.21.R, 5.24.R, 5.27.R, 5.29.R, 5.30.R, 5.33.R, 5.34.R, 5.41.R, 5.42.R, 7.1.R, 7.3.R, 7.12.R, 9.2.R, 9.10.R, 9.11.R, 9.12.R, 9.13.R, 9.20.R, 9.21.R, 9.22.R, 9.23.R, 9.24.V, 10.5.R, 10.6.R, 10.7.R, 10.8.R, 10.9.R, 10.19.R, 12.2.R, 12.3.R, 12.5.R, 12.6.R, 12.7.R, 12.9.R, 12.10.R, 12.11.R, 12.12.R, 12.13.R, 12.14.R, 12.15.R, 12.16.R, 12.17.R, 12.18.R, 12.19.R, 12.20.R, 12.21.R, 12.22.R, 12.31.R, 12.33.R, 12.37.R, 12.38.R, 12.40.R, 12.41.R, 12.42.R, 12.43.R, 12.44.R, 12.45.R, 12.46.R, 12.47.R, 12.48.R, 12.49.R, 12.50.R, 12.51.R, 12.52.R, 12.53.R, 12.54.R, 12.55.R, 12.56.R, 12.57.R, 12.58.R, 12.59.R, 12.61.R, 12.62.R, 12.64.R, 16.20.R, 21.34.R, 23.2.R, 23.15.R, 23.23.R, 24.9.R, 24.10.R, 24.11.R, 24.33.R, A.3.R, A.4.R |
| RLFACLUST | 1.11.R, 1.11.V, 1.12.R, 1.21.R, 1.22.R, 1.24.R, 1.25.R, 1.27.R, 1.28.R, 1.29.R, 1.30.R, 1.38.R, 1.41.R, 1.42.R, 1.45.R, 1.46.R, 1.47.R, 1.48.R, 1.49.R, 1.62.R, 1.64.R, 3.5.R, 3.40.R, 4.3.R, 4.5.R, 4.17.R, 4.24.R, 4.48.R, 4.61.R, 5.4.R, 5.11.R, 5.12.R, 5.21.R, 5.24.R, 5.27.R, 5.28.R, 5.29.R, 5.30.R, 5.31.R, 5.41.R, 5.42.R, 5.64.R, 7.12.R, 9.2.R, 9.20.R, 9.21.R, 9.22.R, 9.23.R, 9.24.V, 10.7.R, 10.8.R, 10.9.R, 12.2.R, 12.10.R, 12.11.R, 12.12.R, 12.13.R, 12.14.R, 12.15.R, 12.16.R, 12.17.R, 12.18.R, 12.19.R, 12.20.R, 12.21.R, 12.22.R, 12.31.R, 12.37.R, 12.38.R, 12.41.R, 12.42.R, 12.43.R, 12.44.R, 12.45.R, 12.46.R, 12.47.R, 12.48.R, 12.49.R, 12.50.R, 12.51.R, 12.52.R, 12.59.R, 12.62.R |
| RLFACNAME | 1.11.R, 1.11.V, 1.12.R, 1.20.R, 1.21.R, 1.22.R, 1.23.R, 1.24.R, 1.25.R, 1.26.R, 1.27.R, 1.28.R, 1.29.R, 1.30.R, 1.31.R, 1.33.R, 1.37.R, 1.38.R, 1.41.R, 1.42.R, 1.45.R, 1.46.R, 1.47.R, 1.48.R, 1.49.R, 1.51.R, 1.61.R, 1.62.R, 1.64.R, 3.5.R, 3.40.R, 4.3.R, 4.5.R, 4.8.V, 4.12.R, 4.17.R, 4.18.R, 4.19.R, 4.20.V, 4.21.R, 4.22.R, 4.24.R, 4.37.R, 4.38.R, 4.46.R, 4.47.R, 4.48.R, 4.61.R, 4.62.R, 5.1.R, 5.4.R, 5.5.R, 5.9.V, 5.11.R, 5.12.R, 5.21.R, 5.24.R, 5.26.R, 5.27.R, 5.28.R, 5.29.R, 5.30.R, 5.31.R, 5.33.R, 5.34.R, 5.41.R, 5.42.R, 5.51.R, 5.64.R, 7.1.R, 7.3.R, 7.12.R, 9.2.R, 9.10.R, 9.11.R, 9.12.R, 9.13.R, 9.20.R, 9.21.R, 9.22.R, 9.23.R, 9.24.V, 9.26.R, 9.27.R, 10.4.R, 10.5.R, 10.6.R, 10.7.R, 10.8.R, 10.9.R, 10.19.R, 10.27.R, 12.2.R, 12.3.R, 12.4.V, 12.5.R, 12.6.R, 12.7.R, 12.8.R, 12.9.R, 12.10.R, 12.11.R, 12.12.R, 12.13.R, 12.14.R, 12.15.R, 12.16.R, 12.17.R, 12.18.R, 12.19.R, 12.20.R, 12.21.R, 12.22.R, 12.31.R, 12.33.R, 12.37.R, 12.38.R, 12.40.R, 12.41.R, 12.42.R, 12.43.R, 12.44.R, 12.45.R, 12.46.R, 12.47.R, 12.48.R, 12.49.R, 12.50.R, 12.51.R, 12.52.R, 12.53.R, 12.54.R, 12.55.R, 12.56.R, 12.57.R, 12.58.R, 12.59.R, 12.61.R, 12.62.R, 12.64.R, 13.3.R, 13.3.V, 20.12.R, 20.23.R, 20.24.R, 20.25.R, 21.34.R, 22.7.R, 22.8.R, 22.15.R, 22.21.R, 23.2.R, 23.15.R, 23.21.R, 23.22.V, 23.23.R, 23.40.R, 24.4.R, 24.9.R, 24.10.R, 24.11.R, 24.33.R, 25.1.R, 25.1.V, A.3.R, A.4.R, A.13.R |
| RLFACRMKS | 1.11.R, 1.11.V, 1.12.R, 1.27.R, 1.29.R, 1.30.R, 1.33.R, 1.41.R, 1.42.R, 1.47.R, 1.48.R, 1.49.R, 1.62.R, 3.40.R, 4.2.R, 4.5.R, 4.17.R, 4.18.R, 4.19.R, 4.20.V, 4.21.R, 4.22.R, 4.24.R, 4.37.R, 4.38.R, 4.46.R, 4.47.R, 4.61.R, 4.62.R, 5.1.R, 5.4.R, 5.11.R, 5.12.R, 5.27.R, 5.29.R, 5.30.R, 5.33.R, 5.41.R, 5.42.R, 7.1.R, 7.3.R, 7.12.R, 9.10.R, 9.11.R, 9.12.R, 9.13.R, 10.5.R, 10.8.R, 10.9.R, 10.19.R, 12.2.R, 12.3.R, 12.4.V, 12.5.R, 12.6.R, 12.7.R, 12.10.R, 12.11.R, 12.12.R, 12.13.R, 12.14.R, 12.15.R, 12.16.R, 12.17.R, 12.18.R, 12.19.R, 12.20.R, 12.21.R, 12.22.R, 12.31.R, 12.33.R, 12.37.R, 12.38.R, 12.40.R, 12.41.R, 12.42.R, 12.43.R, 12.44.R, 12.45.R, 12.46.R, 12.47.R, 12.48.R, 12.49.R, 12.50.R, 12.51.R, 12.52.R, 12.53.R, 12.54.R, 12.55.R, 12.56.R, 12.57.R, 12.58.R, 12.59.R, 12.61.R, 12.62.R, 12.64.R, 20.23.R, 20.25.R, 22.15.R, 24.33.R |
| RLFACTHRSH | 20.4.R, 20.12.R, 20.23.R, 20.24.R, 20.25.R, 22.15.R |
| RLFACTODSC | 1.26.R, 1.30.R, 4.5.R, 4.8.V, 5.26.R, 5.30.R, 8.51.R, 8.59.R, 12.2.R |
| RLFC_4WIRE | 1.5.R, 1.6.R, 26.11.R, A.2.R |
| RLFC_911TRNK | 1.5.R, 1.6.R, A.2.R |

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| RLFC_ANOUNCE | 5.1.R, 5.5.R, 5.9.V, 6.7.R, 21.2.R, 21.41.R |
| RLFC_CARR | 1.5.R, 1.6.R, 1.30.R, 1.60.R, 1.60.V, 4.5.R, 5.1.R, 5.30.R, 5.34.R, 6.10.R, 8.9.R, 9.3.R, 9.7.R, 9.10.R, 9.15.R, 9.24.V, 10.1.R, 10.3.R, 10.4.R, 14.2.R, 14.3.R, 14.4.R, 21.2.R, 21.34.R, 23.2.R, 23.40.R, 26.20.R, 26.21.R, 26.22.R, 26.26.R, 26.33.R, 27.5.R, A.2.R, A.12.R |
| RLFC_COINCHG | 10.10.R, 10.13.R, 10.14.R |
| RLFC_DIOPR | 10.3.R, 10.10.R, 26.25.R, 26.26.R |
| RLFC_DIRCON | 1.5.R, 1.6.R, 1.32.R, A.2.R |
| RLFC_FGBCARR | 5.1.R, 9.7.R, 10.3.R, 26.22.R, 26.25.R |
| RLFC_HOTEL | 4.65.R, 8.9.R, 26.2.R, 26.11.R, 26.11.V |
| RLFC_LINE | 1.5.R, 1.6.R, 1.9.R, 1.11.R, 1.11.V, 1.12.R, 1.15.V, 1.20.R, 1.21.R, 1.22.R, 1.23.R, 1.26.R, 1.27.R, 1.30.R, 1.31.R, 1.32.R, 1.33.R, 1.37.R, 1.41.R, 1.42.R, 1.45.R, 1.46.R, 1.47.R, 1.48.R, 1.49.R, 1.51.R, 1.60.R, 1.60.V, 1.62.R, 1.64.R, 2.5.V, 3.3.R, 3.5.R, 4.3.R, 4.9.R, 4.14.R, 4.29.R, 4.48.R, 5.11.R, 5.12.R, 5.21.R, 5.26.R, 5.27.R, 5.30.R, 5.33.R, 5.41.R, 5.42.R, 5.51.R, 5.64.R, 6.6.V, 6.11.R, 6.15.V, 12.5.R, 12.6.R, 12.8.R, 14.6.R, 18.11.R, 20.1.R, 20.2.R, 20.3.V, 20.4.R, 21.30.R, 21.34.R, 22.7.R, 22.17.R, 22.21.R, 23.1.V, 23.2.R, 23.3.R, 23.15.R, 23.20.R, 23.21.R, 23.24.R, 26.11.R, A.2.R, A.9.R, A.10.R, A.12.R, A.13.R, C.4.R |
| RLFC_NAME | 4.65.R |
| RLFC_NXXZN | 26.12.R, 26.14.R |
| RLFC_OPERTRK | 5.1.R, 5.5.R, 5.9.V |
| RLFC_OPRTK | 5.1.R, 5.5.R, 5.9.V, 8.9.R, 10.3.R, 10.10.R, 26.13.R, 26.14.R, 26.16.R, 26.25.R, 26.26.R, 26.47.R |
| RLFC_PORTTYP | 1.5.R, 1.6.R, 1.9.R, 1.11.R, 1.11.V, 1.15.V, 1.20.R, 1.21.R, 1.22.R, 1.23.R, 1.24.R, 1.25.R, 1.26.R, 1.27.R, 1.28.R, 1.29.R, 1.30.R, 1.31.R, 1.32.R, 1.33.R, 1.37.R, 1.38.R, 1.41.R, 1.42.R, 1.47.R, 1.48.R, 1.51.R, 1.60.R, 1.61.R, 1.62.R, 1.64.R, 2.5.V, 3.3.R, 3.5.R, 3.6.R, 3.7.V, 3.9.R, 3.40.R, 3.43.R, 4.3.R, 4.4.R, 4.11.V, 4.29.R, 4.48.R, 5.1.R, 5.5.R, 5.7.V, 5.9.V, 5.11.R, 5.21.R, 5.24.R, 5.26.R, 5.27.R, 5.28.R, 5.29.R, 5.30.R, 5.31.R, 5.33.R, 5.41.R, 5.42.R, 5.51.R, 5.64.R, 6.11.R, 6.15.V, 7.3.R, 7.10.V, 7.11.R, 7.12.R, 7.41.V, 7.42.V, 8.7.R, 8.10.R, 8.11.R, 8.13.R, 12.5.R, 12.6.R, 12.8.R, 12.13.R, 12.40.R, 13.3.R, 13.3.V, 13.7.R, 13.8.R, 13.9.V, 14.3.R, 14.6.R, 14.7.R, 16.2.R, 16.5.R, 16.6.R, 16.17.R, 17.24.R, 18.10.R, 18.11.R, 18.12.R, 18.14.R, 18.15.R, 19.2.R, 19.7.R, 20.1.R, 20.2.R, 20.3.V, 20.4.R, 20.7.R, 20.16.R, 20.20.R, 20.22.R, 20.23.R, 20.24.R, 21.1.R, 21.30.R, 21.31.V, 21.32.R, 21.34.R, 21.45.R, 21.47.R, 22.7.R, 22.8.R, 22.13.R, 22.17.R, 22.21.R, 23.1.V, 23.2.R, 23.3.R, 23.20.R, 23.20.V, 23.21.R, 23.40.R, 23.41.V, 23.42.V, 24.4.R, 24.7.R, 26.11.R, 27.30.R, A.2.R, A.5.R, A.10.R, A.13.R, C.4.R |
| RLFC_TCITG | 5.1.R, 5.5.R, 5.9.V, 26.23.R |
| RLFC_TDIRC | 5.1.R, 5.5.R, 5.9.V |
| RLFC_TMZN | 26.12.R, 26.14.R |
| RLFC_TRUNK | 1.11.R, 1.11.V, 1.21.R, 1.26.R, 1.30.R, 1.33.R, 1.41.R, 1.42.R, 3.5.R, 3.40.R, 4.3.R, 5.1.R, 5.2.R, 5.5.R, 5.9.V, 5.11.R, 5.21.R, 5.26.R, 5.30.R, 5.31.R, 5.33.R, 5.41.R, 5.42.R, 7.3.R, 7.11.R, 7.12.R, 8.51.R, 8.59.R, 10.4.R, 20.4.R, 20.21.R, 21.27.R, 22.17.R, A.3.R, A.5.R, A.8.R, C.4.R |
| RLFC_WZ1 | 9.3.R, 9.9.R, 9.15.R, 9.24.V |
| RLFCCAVCTK | 5.1.R, 5.5.R, 5.9.V, A.5.R |
| RLFCCC_ISC | 9.16.R |
| RLFCEAINFO | 9.17.R |
| RLFCHOTMOT | 1.5.R, 1.6.R, 8.13.R, 21.34.R, 23.2.R, A.2.R |
| RLFCNPAMAP | 5.1.R, 8.63.R, 26.1.R, 26.2.R, 26.2.V, 26.4.R, 26.11.R, 26.32.R, 26.40.R |
| RLFCPCC_CC | 9.18.R |
| RLFCRSMCAR | 10.2.R, 10.3.R, 10.10.R, 10.25.R, 26.22.R |
| RLFCSCRCDE | 26.2.R, 26.2.V, 26.3.R |
| RLFCSCRLNE | 26.1.R, 26.2.R, 26.2.V, 26.11.R |
| RLFCSCRRNG | 26.1.R, 26.2.R, 26.2.V |
| RLFCTBNTBL | 26.1.R, 26.2.R, 26.2.V |
| RLFEATBN | 3.5.R, 7.3.R, 12.5.R, 12.6.R, 12.7.R, 21.34.R, 23.2.R, 23.17.R |
| RLFID2NAME | 1.11.R, 1.11.V, 1.12.R, 1.20.R, 1.21.R, 1.22.R, 1.23.R, 1.24.R, 1.25.R, |

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|---|---|
| | 1.26.R, 1.27.R, 1.28.R, 1.29.R, 1.30.R, 1.31.R, 1.33.R, 1.37.R, 1.38.R, 1.41.R, 1.42.R, 1.45.R, 1.46.R, 1.47.R, 1.48.R, 1.49.R, 1.51.R, 1.61.R, 1.62.R, 1.64.R, 3.5.R, 3.40.R, 4.3.R, 4.5.R, 4.8.V, 4.12.R, 4.17.R, 4.18.R, 4.19.R, 4.20.V, 4.21.R, 4.22.R, 4.24.R, 4.36.V, 4.37.R, 4.38.R, 4.46.R, 4.47.R, 4.48.R, 4.61.R, 4.62.R, 5.1.R, 5.4.R, 5.5.R, 5.9.V, 5.11.R, 5.12.R, 5.21.R, 5.24.R, 5.26.R, 5.27.R, 5.28.R, 5.29.R, 5.30.R, 5.31.R, 5.33.R, 5.41.R, 5.42.R, 5.51.R, 5.64.R, 7.1.R, 7.3.R, 7.12.R, 9.2.R, 9.10.R, 9.11.R, 9.12.R, 9.13.R, 9.20.R, 9.21.R, 9.22.R, 9.23.R, 9.24.V, 10.4.R, 10.5.R, 10.6.R, 10.7.R, 10.8.R, 10.9.R, 10.19.R, 12.2.R, 12.3.R, 12.4.V, 12.5.R, 12.6.R, 12.7.R, 12.8.R, 12.9.R, 12.10.R, 12.11.R, 12.12.R, 12.13.R, 12.14.R, 12.15.R, 12.16.R, 12.17.R, 12.18.R, 12.19.R, 12.20.R, 12.21.R, 12.22.R, 12.31.R, 12.33.R, 12.37.R, 12.38.R, 12.40.R, 12.41.R, 12.42.R, 12.43.R, 12.44.R, 12.45.R, 12.46.R, 12.47.R, 12.48.R, 12.49.R, 12.50.R, 12.51.R, 12.52.R, 12.53.R, 12.54.R, 12.55.R, 12.56.R, 12.57.R, 12.58.R, 12.59.R, 12.61.R, 12.62.R, 12.64.R, 13.3.R, 13.3.V, 20.12.R, 20.23.R, 20.24.R, 20.25.R, 21.34.R, 22.15.R, 23.2.R, 23.15.R, 23.21.R, 23.22.V, 23.23.R, 24.4.R, 24.9.R, 24.10.R, 24.11.R, 24.33.R, 25.1.R, 25.1.V, A.3.R, A.4.R, A.10.R |
| RLFIDB_SGN | 18.1.R, 18.5.R, 20.4.R |
| RLFIX_DIG | 16.23.R, 16.25.R |
| RLFLEX_ANI | 8.23.R |
| RLFMASSIGN | 24.4.R, 24.5.R |
| RLFPHCHNLS | 18.5.R |
| RLFRBC_SVC | 5.5.R, 5.7.V, 5.9.V |
| RLFTSCCPNI | 27.78.R |
| RLFTSNANP | 27.77.R |
| RLFTSNXX | 27.75.R |
| RLFTSRTE | 27.76.R |
| RLFTTH_SIG | 18.15.R |
| RLGCKTI | 19.5.R, 19.19.R, 20.5.R |
| RLGDSF_CNT | 19.19.R |
| RLGENSCA | 1.5.R, 1.6.R, 4.48.R, 23.2.R |
| RLGENSCF | 1.5.R, 1.6.R, 4.48.R, 23.2.R |
| RLGENSCR | 1.5.R, 1.6.R, 4.48.R, 23.2.R |
| RLGENSDA | 1.5.R, 1.6.R, 4.48.R, 23.2.R |
| RLGETCHT | 10.14.R, 10.15.R |
| RLGPID_NET | 10.5.R, 10.27.R |
| RLGROUP_PORT | 1.5.R, 1.6.R, 1.11.R, 1.11.V, 1.15.V, 1.29.R, 1.37.R, 1.64.R, 3.3.R, 3.5.R, 3.7.V, 3.9.R, 3.40.R, 3.43.R, 4.4.R, 4.9.R, 4.14.R, 5.1.R, 5.3.R, 5.5.R, 5.7.V, 5.9.V, 5.11.R, 5.29.R, 5.64.R, 6.7.R, 6.15.V, 7.1.R, 7.12.R, 8.9.R, 8.13.R, 10.4.R, 12.6.R, 12.40.R, 13.3.R, 13.3.V, 14.3.R, 20.16.R, 21.2.R, 21.27.R, 21.34.R, 21.41.R, 21.59.V, 22.16.R, 23.2.R, 23.3.R, 23.17.R, 23.20.R, 23.20.V, 23.21.R, 23.22.V, 24.4.R, 24.12.R, 26.23.R, A.2.R, A.5.R, A.8.R, C.4.R |
| RLGRP_MPM | 1.5.R, 1.6.R, 21.34.R, 23.2.R |
| RLGRP2CKT | 18.15.R |
| RLGSM_NET | 8.17.R, 13.7.R, 13.8.R, 13.9.V, 16.1.R, 16.10.R, 16.20.R, 16.21.R, 16.22.R, 16.23.R, 16.24.R, 16.25.R |
| RLGSM_OPC | 8.17.R, 8.42.R, 13.7.R, 13.8.R, 13.9.V, 16.1.R, 16.2.R, 16.4.R, 16.6.R, 16.7.R, 16.8.R, 16.9.R, 16.10.R, 16.11.V, 16.20.R, 16.22.R |
| RLGTT_0DPC | 16.21.R, 16.25.R |
| RLGTT_1DPC | 16.21.R, 16.25.R |
| RLGTT_MASK | 16.20.R, 16.23.R, 16.24.R, 16.25.R |
| RLHCN_RTS | 18.1.R, 18.5.R |
| RLHDFI_CON | 7.41.V, 18.1.R, 18.5.R, 20.4.R, 23.41.V |
| RLHI_CF | 12.53.R |
| RLHMRSMCL | 18.1.R, 18.5.R |
| RLHOMECALL | 27.55.R |
| RLHS_CKT | 20.1.R, 22.8.R |
| RLHSMRSM | 17.20.R, 17.24.R, 18.1.R |
| RLHSSASGN | 24.3.R |
| RLHTU2RSM | 18.5.R, 18.5.V |
| RLHUNTKEYS | 1.5.R, 1.6.R, 3.5.R, 3.6.R, 3.7.V, 3.9.R, 4.14.R, 5.1.R, 7.3.R, 8.13.R, |

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| | 21.34.R, 23.2.R, A.2.R |
| RLIBMTGN | 21.58.R, 21.59.V |
| RLIBNS_CB | 27.91.R |
| RLICCVDB | 27.55.R, 27.60.R |
| RLICL_MSK | 18.1.R, 18.5.R, 18.9.R |
| RLICM_1LST | 1.45.R, 4.24.R, 23.21.R, 23.23.R |
| RLICM_CFDF | 1.45.R, 12.45.R |
| RLICM_GRP | 1.45.R, 4.24.R, 12.45.R, 23.21.R, 23.23.R |
| RLICM_TERM | 1.45.R, 4.24.R, 23.21.R, 23.23.R |
| RLICNB_CAS | 27.54.R |
| RLICNH_CAS | 8.9.R, 27.54.R |
| RLICRH_CAS | 8.9.R, 27.54.R |
| RLICRSM | 7.3.R |
| RLICR | 1.26.R, 5.26.R, 7.3.R, 21.34.R, 23.2.R |
| RLICX_ICI | 1.46.R, 3.5.R, 3.40.R, 3.43.R, 4.46.R, 5.1.R, 7.3.R, 7.12.R, 12.5.R, 12.7.R |
| RLID_CF | 12.17.R |
| RLID_IFLOW | 21.2.R, 21.8.R, 21.8.V, 21.16.R, 21.22.R, 21.27.R, 27.52.R |
| RLID_OPER | 21.4.R, 21.16.R, 21.18.R, 21.18.V |
| RLID_OPTS | 1.26.R, 1.30.R, 5.26.R, 5.30.R, 12.17.R |
| RLID_PORT | 1.26.R, 1.30.R, 1.31.R, 1.49.R, 4.3.R, 5.26.R, 5.30.R, 12.5.R, 12.6.R, A.2.R, A.3.R |
| RLID_ST | 21.2.R, 21.16.R, 21.18.R, 21.18.V |
| RLID2NAME | 1.30.R, 1.51.R, 4.2.R, 4.5.R, 4.8.V, 5.30.R, 5.51.R, 12.9.R, 24.4.R, A.3.R |
| RLIDAM | 8.4.R |
| RLIDP_ACT | 1.26.R, 1.30.R, 4.3.R, 4.5.R, 5.26.R, 5.30.R, 9.10.R, 9.11.R, 9.13.R, 12.6.R |
| RLIDP_AERT | 1.26.R, 5.26.R, 9.10.R, 9.11.R |
| RLIDP_CNFL | 1.26.R, 4.5.R, 5.26.R, 9.10.R, 9.13.R, A.4.R |
| RLIDP_DTRE | 1.26.R, 4.5.R, 5.26.R, 9.10.R, 9.13.R, A.4.R |
| RLIDP_ERT | 1.26.R, 5.26.R, 9.10.R |
| RLIDP_GP | 1.26.R, 4.5.R, 5.26.R, 9.10.R, 9.11.R, 9.13.R, 9.27.R, 10.19.R, 12.5.R, 12.6.R, 24.4.R, A.4.R |
| RLIDP_ICOM | 1.26.R, 5.26.R, 9.10.R, 9.12.R, 9.13.R |
| RLIDPRDTRE | 1.26.R, 5.26.R, 9.10.R, 9.27.R |
| RLIDPRICOM | 1.26.R, 5.26.R, 9.10.R, 9.26.R, 9.27.R |
| RLIFTRANS | 27.50.R |
| RLIIDIGITS | 8.57.R |
| RLIIFLEXAN | 26.50.R |
| RLIMCOSTAT | 11.1.R |
| RLIMESP | 1.5.R, 1.6.R, 23.2.R, A.2.R |
| RLIMTGRPS | 5.1.R, 5.5.R, 5.9.V |
| RLIMTRKS | 5.5.R, 5.9.V, 5.46.R |
| RLIND_DPC | 16.22.R, 16.24.R, 16.25.R |
| RLINDX | 16.1.R, 16.2.R, 16.5.R, 16.6.R, 16.7.R, 16.9.R, 16.10.R, 16.17.R, 16.21.R, 17.24.R |
| RLINTERFLW | 21.2.R, 21.7.R, 21.9.V, 21.22.R, 21.27.R, 27.52.R |
| RLINTFNAM | 33.2.R, 33.3.R |
| RLINTOPID | 21.4.R |
| RLINTTTF | 20.5.R |
| RLINWNPAS | 26.41.R, 27.70.R, 27.72.R, 27.72.V, 27.84.R |
| RLIPADDRMA | 21.46.R, 21.47.R, 21.48.R |
| RLIPADRLOC | 33.1.R, 33.2.R, 33.3.R |
| RLIPCS_PCI | 5.1.R, 16.8.R, 16.9.R |
| RLIPINTCNF | 33.2.R |
| RLIPRTTAB | 33.2.R, 33.3.R |
| RLIPTOPCR | 33.1.R |
| RLIS_LINE | 1.5.R, 1.6.R, 1.11.R, 1.11.V, 1.12.R, 1.23.R, 1.37.R, 3.5.R, 4.29.R, 4.48.R, 5.11.R, 5.12.R, 6.15.V, 12.6.R, 12.8.R, 21.34.R, 23.2.R, 23.3.R, 23.17.R, 23.20.R, 23.20.V, 23.21.R, 23.22.V, 23.23.R, 23.24.R, A.2.R, A.10.R, C.4.R |
| RLIS_TERM | 1.5.R, 1.6.R, 1.37.R, 1.46.R, 3.5.R, 6.6.V, 6.15.V, 7.3.R, 21.34.R, 23.2.R, 23.17.R, 23.20.R, 23.21.R, 23.22.V, 23.23.R, 23.24.R, A.2.R |
| RLISACOF | 12.5.R, 12.6.R, 21.34.R, 23.2.R |
| RLISAFIDX | 12.5.R, 12.6.R, 21.34.R, 23.2.R |
| RLISATGRP | 1.22.R, 3.5.R, 3.40.R, 4.14.R, 5.1.R, 7.3.R, 7.12.R, 12.5.R, 12.7.R, 21.34.R, 23.2.R |
| RLISATLMT | 3.5.R, 12.5.R, 12.6.R, 12.7.R, 21.34.R, 23.2.R |
| RLISATMBR | 3.5.R, 3.40.R, 3.43.R, 7.12.R, 21.34.R, 23.2.R |
| RLISATMOD | 3.40.R, 7.12.R, 21.34.R, 23.2.R |
| RLISBILLDN | 1.5.R, 1.6.R, 3.5.R, 21.34.R, 23.2.R, 23.20.R, 23.20.V, 23.21.R |
| RLISDTGS | 12.5.R, 12.7.R, 21.34.R, 23.2.R |

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| | |
|---|---|
| RLISLC_ALM | 8.13.R, 18.14.R |
| RLISLU2LG | 21.45.R, 22.21.R, 23.2.R |
| RLISLULGC | 6.11.R, 21.30.R, 21.34.R, 21.45.R, 22.6.R, 22.7.R, 22.8.R, 22.21.R, 23.2.R, 24.7.R |
| RLISLUPIDB | 19.12.R, 21.45.R, 22.5.R, 22.9.R, 22.10.R, 22.21.R, 23.13.R |
| RLISMPATH | 22.13.R |
| RLISMRSM | 22.13.R |
| RLISQU_CWL | 3.40.R, 7.12.R |
| RLISRMBLST | 3.9.R, 23.2.R, 23.20.R |
| RLISSATND | 12.5.R, 21.34.R, 23.2.R |
| RLISSCCOF | 5.1.R, 7.3.R, 12.5.R, 12.7.R |
| RLIST_PARM | 5.1.R, 21.7.R, 21.8.R, 21.8.V, 21.9.V, 21.27.R, 21.32.R, 27.52.R |
| RLISTF | 19.11.R |
| RLISTGIDX | 12.5.R, 12.7.R, 21.34.R, 23.2.R |
| RLISTMBLST | 3.9.R, 4.14.R, 21.34.R, 23.2.R, 23.20.R |
| RLITNALNEX | 26.30.R, 26.32.R |
| RLITNALRNG | 26.30.R, 26.32.R |
| RLITNASAC | 26.34.R |
| RLITNASPEC | 26.31.R |
| RLITNASTAT | 26.30.R, 26.33.R |
| RLITNATGN | 26.30.R, 26.33.R |
| RLITNATRNG | 26.30.R, 26.33.R |
| RLKEY_TALK | 5.5.R, 5.9.V, A.5.R |
| RLKEYLIST | 1.5.R, 1.6.R, 3.5.R, 3.6.R, 5.1.R, 7.3.R, 21.34.R, 23.2.R, A.2.R |
| RLLAB6_PCI | 5.5.R, 5.9.V |
| RLLAB6PRT | 5.5.R, 5.9.V |
| RLLAB7_PCI | 5.1.R |
| RLLAB7PRT | 5.1.R, 5.5.R, 5.9.V |
| RLLAESCASE | C.3.V, C.4.R |
| RLLAESPROF | C.2.R, C.4.R |
| RLLANG_TBL | 8.66.R, 27.55.R |
| RLLANGDEST | 27.70.R, 27.89.R, 27.95.R, 27.96.R |
| RLLANGMENU | 8.9.R, 27.95.R, 27.96.R |
| RLLAPBSUB | 21.34.R, 21.45.R, 23.2.R |
| RLLASSCONV | 8.18.R, 8.21.R |
| RLLAT_LPT | 21.34.R, 23.2.R |
| RLLDPINDX | 8.58.R, 8.59.R |
| RLLDPTNSC | 8.53.R, 8.54.R, 8.57.R |
| RLLECCRD | 27.67.R, 27.68.R, 27.69.R |
| RLLECRNG | 27.67.R, 27.68.R, 27.69.R |
| RLLECTEXT | 27.20.R, 27.21.R, 27.22.V |
| RLLGRPMEM | 16.1.R, 16.5.R, 16.6.R |
| RLLID_CF | 1.38.R, 12.44.R |
| RLLINERANGE | 27.11.R, 27.11.V |
| RLLNAME2ID | C.4.R |
| RLLNK_PLI | 19.14.R, 19.16.R, 22.2.R, 22.2.V, 22.3.R |
| RLLNK_USE | 17.23.R, 18.3.R, 18.16.R, 18.17.R, 19.14.R, 22.2.R, 22.2.V, 22.3.R |
| RLLNKGRP | 16.1.R, 16.6.R |
| RLLNKP_LS | 7.41.V, 7.42.V, 16.6.R, 16.11.V, 23.41.V, 23.42.V |
| RLLNNODE_M | 10.28.R |
| RLLOCIPADR | 33.1.R, 33.2.R, 33.3.R |
| RLLOCNAME | 21.60.R |
| RLLOCNBR | 21.60.R |
| RLLOSS_TBL | 4.16.V, 22.7.R |
| RLLPRT_FW | 5.5.R, 5.9.V, 6.11.R, 21.30.R, 21.31.V, 21.45.R |
| RLLPRT_POS | 5.5.R, 5.9.V, 21.32.R |
| RLLPRTACCS | 20.22.R |
| RLLPT_PT | 1.5.R, 1.6.R, 1.11.R, 1.11.V, 1.32.R, 1.37.R, 1.49.R, 4.9.R, 5.5.R, 5.9.V, 5.11.R, 6.10.R, 6.15.V, 12.8.R, 21.34.R, 22.17.R, 23.2.R, 23.3.R, 23.9.V, 23.10.R, 23.11.R, 23.15.R, 23.20.R, 23.20.V, 23.21.R, 26.11.R, A.2.R, C.4.R |
| RLLPT_SPID | 21.34.R, 23.1.V, 23.2.R, 23.20.R, 23.21.R, C.4.R |
| RLLRNTBL | 9.36.R |
| RLLS_CLS | 16.5.R, 16.7.R |
| RLLS_CLUST | 16.5.R, 16.7.R, 16.9.R |
| RLLS_DPC | 16.5.R, 16.6.R, 16.7.R, 16.10.R |
| RLLS_GRP | 16.1.R, 16.2.R, 16.5.R, 16.6.R, 16.7.R, 16.8.R, 16.9.R, 16.10.R |
| RLLS_LNK | 13.7.R, 13.8.R, 13.9.V, 16.5.R, 16.6.R |
| RLLS_NETID | 16.5.R, 16.7.R, 16.8.R |
| RLLSF_CF | 4.48.R, 12.54.R, 12.55.R, 12.56.R, 12.57.R, 12.58.R |
| RLLSFHCA | 1.5.R, 1.6.R, 3.5.R, 4.14.R, 4.48.R, 23.2.R |
| RLLSFHCF | 1.5.R, 1.6.R, 3.5.R, 4.14.R, 4.48.R, 23.2.R |

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| | |
|---|---|
| RLLSFHCR | 1.5.R, 1.6.R, 3.5.R, 4.14.R, 4.48.R, 23.2.R |
| RLLSFHDA | 1.5.R, 1.6.R, 3.5.R, 4.14.R, 4.48.R, 23.2.R |
| RLLSFSCA | 4.48.R |
| RLLSFSCF | 4.48.R |
| RLLSFSCR | 4.48.R |
| RLLSFSDA | 4.48.R |
| RLLTM_BFG | 1.11.R, 1.11.V, 5.11.R, 12.8.R, 12.9.R, A.2.R |
| RLLTM_CLST | 1.5.R, 1.6.R, 1.10.R, 1.11.R, 1.11.V, 5.5.R, 5.9.V, 5.10.R, 5.11.R, 21.34.R, 23.2.R, 23.20.R, 23.30.R, 23.33.R, 23.34.R, A.2.R |
| RLLTM_PORT | 1.5.R, 1.6.R, 1.11.R, 1.11.V, 1.32.R, 1.37.R, 4.48.R, 5.5.R, 5.9.V, 5.11.R, 12.6.R, 12.8.R, 23.17.R, 23.20.R, 23.21.R, 23.22.V |
| RLLTSBPORT | 1.5.R, 1.6.R, 1.9.R, 1.11.R, 1.11.V, 1.15.V, 1.22.R, 1.24.R, 1.25.R, 1.26.R, 1.27.R, 1.28.R, 1.29.R, 1.33.R, 1.37.R, 1.51.R, 1.60.R, 1.64.R, 4.9.R, 4.14.R, 4.48.R, 5.11.R, 5.24.R, 5.26.R, 5.27.R, 5.28.R, 5.29.R, 5.33.R, 5.51.R, 5.64.R |
| RLLUWAVG | 19.1.R |
| RLMASK_BLF | 1.5.R, 1.6.R, 3.5.R, 4.26.V, 4.29.R, 21.34.R, 23.2.R, 23.20.R |
| RLMATATT | 18.9.R |
| RLMBG2TG | 4.12.R, 5.1.R |
| RLMDC_GRP | 1.5.R, 1.6.R, 3.3.R, 3.5.R, 4.36.V, 4.37.R, 21.34.R, 23.2.R, 24.9.R, 24.10.R, 24.11.R |
| RLMDPATH | 16.11.V, 16.17.R |
| RLMDR_CF | 12.33.R |
| RLMDR_CNTS | 24.2.R |
| RLMDR_GP | 1.33.R, 5.33.R, 7.3.R, 24.4.R, 24.33.R |
| RLMDR_OPTS | 1.33.R, 5.33.R, 12.33.R |
| RLMDR_PORT | 1.33.R, 3.5.R, 5.33.R |
| RLMDS_CF | 12.37.R |
| RLMDS_GRP | 1.37.R, 1.38.R, 3.5.R, 4.37.R, 24.9.R, 24.10.R, 24.11.R |
| RLMDS_OPTS | 1.37.R, 12.4.V, 12.37.R |
| RLMDS_PORT | 1.37.R, 1.38.R, A.13.R |
| RLMEASDES | 27.70.R, 27.71.R |
| RLMEASFLTR | 19.19.R |
| RLMEETME | 27.40.R |
| RLMFC_TYPE | 5.1.R |
| RLMH_TSLOT | 19.13.R, 19.14.R, 19.16.R |
| RLMH_UNIT | 19.13.R, 19.14.R, 19.16.R |
| RLMHG_CF | 1.22.R, 3.5.R, 4.14.R, 4.48.R |
| RLMHG_OPTS | 3.5.R, 12.18.R |
| RLMHG_TGSR | 1.5.R, 1.6.R, 1.11.R, 1.11.V, 1.12.R, 1.29.R, 1.46.R, 3.5.R, 5.11.R, 5.12.R, 5.29.R |
| RLMHPIPE | 16.16.R, 17.20.R |
| RLMLT_LATA | 8.17.R |
| RLMODATT | 1.5.R, 1.6.R, 1.9.R, 1.11.R, 1.11.V, 1.15.V, 1.29.R, 3.3.R, 3.5.R, 3.9.R, 3.40.R, 4.6.V, 4.14.R, 5.1.R, 5.5.R, 5.9.V, 5.11.R, 5.29.R, 6.11.R, 6.15.V, 7.3.R, 7.4.R, 7.12.R, 7.41.V, 8.1.R, 8.3.R, 8.11.R, 8.12.R, 8.14.R, 8.15.R, 8.17.R, 8.18.R, 8.27.R, 8.40.R, 8.50.R, 8.64.R, 9.3.R, 9.9.R, 9.24.V, 9.25.R, 12.8.R, 13.3.R, 13.7.R, 13.8.R, 13.9.V, 16.1.R, 16.4.R, 16.6.R, 16.11.V, 16.16.R, 16.17.R, 17.1.R, 17.3.R, 17.12.R, 17.15.R, 17.19.R, 17.20.R, 17.23.R, 17.24.R, 18.1.R, 18.4.R, 18.4.V, 18.5.R, 18.5.V, 18.6.V, 18.9.R, 18.10.R, 18.15.R, 18.16.R, 18.17.R, 19.1.R, 19.2.R, 19.5.R, 19.6.R, 19.9.R, 19.16.R, 19.19.R, 19.20.R, 19.21.R, 19.22.R, 20.4.R, 20.8.R, 20.11.R, 21.1.R, 21.30.R, 21.32.R, 21.34.R, 22.1.R, 22.13.R, 22.19.V, 22.21.R, 23.2.R, 23.12.R, 23.19.R, 23.20.R, 23.20.V, 23.21.R, 23.21.V, 23.40.R, 23.41.V, 26.1.R, 26.20.R, 26.21.R, 27.67.R, 27.84.R, 33.1.R, A.2.R, A.5.R, A.9.R, A.12.R |
| RLMODCLI | 18.1.R, 18.16.R |
| RLMONI_BLF | 1.5.R, 1.6.R, 3.5.R, 4.14.R, 4.29.R, 21.34.R, 23.2.R, 23.20.R |
| RLMONTOQ | 3.5.R, 3.40.R, 7.12.R, 21.34.R, 23.2.R, 23.17.R |
| RLMS_ACSR | 4.47.R, 13.3.R |
| RLMS_AP | 4.37.R, 4.38.R, 24.9.R, 24.10.R, 24.11.R |
| RLMS_ATT | 1.5.R, 1.6.R, 13.3.R, 13.3.V, 23.20.R, 24.4.R, A.2.R |
| RLMS_CFT | 1.41.R, 1.42.R, 4.48.R, 4.61.R, 5.41.R, 5.42.R, 12.10.R, 12.11.R, 12.12.R, 12.13.R, 12.14.R, 12.15.R, 12.16.R, 12.17.R, 12.19.R, 12.20.R, 12.21.R, 12.22.R, 12.31.R, 12.33.R, 12.37.R, 12.38.R, 12.41.R, 12.42.R, 12.43.R, |

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| | |
|---|---|
| | 12.44.R, 12.45.R, 12.46.R, 12.47.R, 12.48.R, 12.49.R, 12.51.R, 12.52.R, 12.53.R, 12.54.R, 12.55.R, 12.56.R, 12.57.R, 12.58.R, 12.59.R, 12.61.R, 13.3.R, 13.3.V |
| RLMS_IDP | 1.26.R, 5.26.R, 9.10.R, 13.3.R, 13.3.V, 18.1.R, 24.4.R |
| RLMS_LUSDY | 13.6.R, 19.1.R, 22.5.R, 22.9.R |
| RLMS_MLHG | 1.5.R, 1.6.R, 13.3.R, 13.3.V, 23.20.R, 24.4.R, A.2.R |
| RLMS_PFA | 7.3.R, 13.3.R, 13.3.V, 24.4.R |
| RLMS_QAN | 1.5.R, 1.6.R, 3.5.R, 3.40.R, 5.1.R, 7.3.R, 7.12.R, 13.3.R, 13.3.V, 18.1.R |
| RLMS_QU | 1.5.R, 1.6.R, 3.5.R, 3.40.R, 5.1.R, 7.3.R, 7.12.R, 13.3.R, 13.3.V, 24.4.R |
| RLMS_SC | 19.1.R, 20.1.R, 22.5.R, 22.8.R |
| RLMS_SGEQ | 13.6.R, 18.1.R, 20.1.R, 22.6.R |
| RLMS_SGSDY | 13.6.R, 18.1.R, 19.1.R, 22.5.R, 22.9.R |
| RLMS_TGSR | 1.29.R, 5.29.R, 13.3.R, 13.3.V, 18.1.R, 24.4.R |
| RLMSAPHSS | 1.5.R, 1.6.R, 5.5.R, 5.9.V, 24.12.R |
| RLMSLUCUM | 13.4.R, 13.5.R |
| RLMSPRTLST | 5.2.R, 13.7.R, 13.8.R, 13.9.V, 13.10.R, 16.8.R, 16.9.R, 16.10.R, 19.7.R |
| RLMSSELLST | 5.2.R, 13.7.R, 13.8.R, 13.9.V, 13.10.R, 16.8.R, 16.9.R, 16.10.R, 19.7.R |
| RLMTB_COMP | 14.18.R, 19.16.R |
| RLMTBDCTU | 20.9.R |
| RLMTBFE | 14.3.R, 14.7.R, 18.10.R, 18.12.R, 18.15.R, 19.1.R, 19.2.R, 19.16.R, 20.2.R, 20.3.V, 20.7.R, 20.7.V, 20.9.R, 20.20.R, 22.8.R |
| RLMTBS96 | 8.13.R, 18.10.R, 18.15.R |
| RLMTBTST | 5.5.R, 5.9.V, 20.2.R, 20.3.V |
| RLMULTIFAC | 20.4.R, 20.24.R |
| RLMUMTIB | 19.7.R, 20.8.R |
| RLMWCFDFL | 1.27.R, 5.27.R, 12.4.V, 12.5.R, 12.15.R, 12.19.R |
| RLMWCF | 12.4.V, 12.5.R, 12.14.R, 12.19.R |
| RLMWPORT | 1.27.R, 5.27.R |
| RLNAILUP | 7.11.R, 18.15.R |
| RLNAME2ID | 1.30.R, 1.51.R, 4.2.R, 4.5.R, 4.8.V, 5.30.R, 5.51.R, 12.9.R, 24.4.R, A.3.R, C.3.V |
| RLNAMINTF | 33.2.R, 33.3.R |
| RLNAPCNDX | 16.22.R |
| RLNET_GPID | 10.5.R, 10.27.R |
| RLNET_GSM | 16.20.R, 16.21.R, 16.22.R, 16.24.R, 16.25.R |
| RLNET_INFO | 5.1.R, 13.7.R, 13.8.R, 13.9.V, 16.8.R, 16.9.R, 16.10.R, 16.22.R |
| RLNLI_LNK | 17.19.R, 17.20.R, 17.23.R, 17.24.R, 18.16.R, 18.17.R |
| RLNM2PRID | C.2.R, C.4.R |
| RLNMDCOFC | 5.1.R, 10.36.R |
| RLNMIMPDGTS | 9.3.R, 9.5.R, 9.24.V |
| RLNO_PICB | 17.18.R, 19.14.R |
| RLNOCCODE | 1.5.R, 1.6.R, 1.9.R, 1.11.R, 1.11.V, 1.15.V, 1.49.R, 1.60.R, 1.64.R, 3.3.R, 3.5.R, 4.9.R, 4.9.V, 4.10.R, 4.10.V, 4.14.R, 4.26.V, 4.27.V, 4.28.V, 4.29.R, 4.48.R, 5.11.R, 5.64.R, 6.10.R, 6.15.V, 8.2.R, 9.3.R, 9.5.R, 9.9.R, 9.15.R, 9.24.V, 10.6.R, 10.10.R, 10.31.R, 11.2.R, 13.7.R, 13.8.R, 13.9.V, 13.10.R, 21.34.R, 21.42.R, 22.17.R, 23.2.R, 23.16.R, 23.17.R, 23.20.R, 23.20.V, 23.21.R, 23.22.V, 23.40.R, 26.11.R, 26.11.V, A.2.R |
| RLNON_USA | 26.6.R, 27.55.R, 27.82.R, 27.86.R, 27.90.R |
| RLNPA_HEAD | 27.32.R, 27.33.R |
| RLNPA_NXX | 27.32.R, 27.33.R |
| RLNPA_SM | 27.67.R, 27.68.R |
| RLNPASPLIT | 8.25.R |
| RLNPATG | 26.16.R |
| RLNS_TRIG | 1.64.R, 5.64.R, 8.51.R, 8.52.R, 8.57.R, 8.59.R, 9.2.R, 9.3.R, 9.5.R, 9.6.R, 9.9.R, 9.15.R, 9.24.V, 9.35.R |
| RLNSFMAP | 5.1.R, 5.5.R, 5.9.V, 5.34.R, 5.34.V |
| RLNTSTYPE | 17.20.R, 17.23.R, 17.24.R |
| RLNW_RTIDX | 10.26.R |
| RLNXXRANGE | 27.12.R, 27.12.V |
| RLOAEXMAP | 26.1.R, 26.4.R |
| RLOAODISP | 21.23.R, 21.26.R, 21.41.R, 26.8.R, 26.9.R, 26.10.R |
| RLOCNTWK | 10.3.R, 26.21.R |
| RLODPSOP | 21.34.R, 22.14.V, 22.19.V, 22.20.V, 23.1.V, 23.2.R, 23.3.R, 23.9.V, 23.10.R, 23.11.R, 23.14.R, 23.20.R, 23.21.R, A.2.R, C.4.R |
| RLOFF_PAR | 16.2.R, 16.5.R, 16.10.R |
| RLOFFICECODE | 1.49.R, 1.62.R, 4.65.R, 8.2.R, 9.3.R, 9.5.R, 9.9.R, 9.15.R, 9.24.V, 10.2.R, 10.10.R, 10.31.R, 13.7.R, 13.8.R, 13.9.V, 13.10.R, 23.1.V, 23.17.R, 23.20.R, |

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| | |
|---|---|
| | 23.21.R, 23.22.V, A.7.R |
| RLOLNP_HEAD | 27.34.R, 27.35.R |
| RLOLNP_NXX | 27.34.R, 27.35.R |
| RLOLNSDEF | 8.41.R, 26.46.R |
| RLOLOGINID | 21.2.R, 21.4.R, 21.18.R |
| RLOLOID | 16.2.R |
| RLOLSR | 8.9.R, 8.61.R, 8.63.R, 26.2.R, 26.3.R |
| RLOP_IDDN | 21.23.R, 21.24.R, 21.25.R |
| RLOP_ID | 10.10.R, 21.23.R, 21.24.R, 21.25.R |
| RLOPDBPARM | 27.30.R, 27.31.R |
| RLOPEISDB | 21.7.R, 21.8.R, 21.22.R, 21.51.R, 21.55.R, 21.56.V, 27.31.R |
| RLOPEXTDB | 21.1.R, 21.55.R, 27.30.R, 27.31.R |
| RLOSDC | 27.4.R |
| RLOSPS_INT | 5.1.R, 26.9.R, 27.51.R |
| RLOSPSPARM | 6.11.R, 21.1.R, 21.2.R, 21.6.R, 21.30.R, 21.32.R, 21.55.R, 21.62.R, 27.31.R |
| RLOTR_VLD | 21.1.R, 21.6.R |
| RLPBG_INFO | 3.5.R, 23.2.R, 23.16.R |
| RLPBG_SFG | 3.5.R, 23.2.R, 23.16.R |
| RLPC_MSUSG | 19.7.R |
| RLPCI_PRT | 5.5.R, 5.9.V |
| RLPCI6_LAB | 5.5.R, 5.9.V |
| RLPCI7_LAB | 5.1.R |
| RLPCRTOIP | 33.1.R |
| RLPCTRKTXC | 5.1.R, 5.3.R, 5.5.R, 5.9.V |
| RLPEELCC | 27.73.R |
| RLPF_CPSL | 5.5.R, 5.9.V |
| RLPF_GP | 1.28.R, 5.28.R, 7.1.R |
| RLPF_PARM | 7.1.R |
| RLPF_PORT | 1.5.R, 1.6.R, 1.28.R, 5.28.R, A.2.R |
| RLPF_SLCP | 5.5.R, 5.9.V, 8.13.R |
| RLPF_TKDN | 5.1.R, 5.5.R, 5.9.V |
| RLPFIXTEI | 23.1.V, 23.2.R |
| RLPGGPMAP | 1.5.R, 1.6.R, 1.11.R, 1.11.V, 1.15.V, 1.21.R, 1.22.R, 1.25.R, 1.26.R, 1.29.R, 1.31.R, 1.37.R, 1.46.R, 1.51.R, 3.3.R, 3.5.R, 3.40.R, 4.14.R, 4.48.R, 5.5.R, 5.7.V, 5.9.V, 5.11.R, 5.21.R, 5.26.R, 5.29.R, 5.31.R, 5.51.R, 6.15.V, 7.12.R, 7.41.V, 7.42.V, 8.9.R, 8.10.V, 8.13.R, 12.6.R, 12.40.R, 14.3.R, 14.4.R, 18.1.R, 21.34.R, 23.1.V, 23.2.R, 23.3.R, 23.20.R, 23.20.V, 23.21.R, 23.41.V, 23.42.V, 26.26.R, A.2.R, A.5.R, C.4.R |
| RLPGTC | 8.13.R, 13.7.R, 13.8.R, 13.9.V, 14.7.R |
| RLPHCHSTAT | 5.5.R, 5.9.V, 6.11.R, 16.6.R, 16.17.R, 18.15.R, 21.30.R, 21.34.R, 22.2.R, 22.3.R, 22.13.R, 22.16.R, 23.2.R, 23.14.R, 23.40.R, 24.7.R |
| RLPHR_LANG | 8.67.R |
| RLPHRASES | 8.60.R, 8.61.R, 8.62.R, 8.63.R, 8.64.R, 8.67.R, 8.70.R, 8.71.R, 26.1.R, 26.3.R, 26.48.R, 27.66.R |
| RLPHRTCONG | 16.6.R |
| RLPICB | 5.5.R, 5.9.V, 7.41.V, 8.7.R, 14.7.R, 18.2.R, 18.3.R, 18.6.V, 19.1.R, 19.2.R, 19.5.R, 19.6.R, 19.7.R, 19.9.R, 19.10.R, 19.11.R, 19.12.R, 19.15.R, 19.16.R, 19.18.R, 19.19.R, 20.4.R, 20.5.R, 20.5.V, 20.6.R, 20.7.R, 20.9.R, 20.11.R, 20.21.R, 20.22.R, 22.2.R, 22.5.R, 22.9.R, 22.10.R, 23.41.V |
| RLPIDBLIMIT | 19.12.R |
| RLPIDB | 7.41.V, 18.3.R, 18.7.V, 19.1.R, 19.2.R, 19.5.R, 19.6.R, 19.10.R, 19.11.R, 19.12.R, 19.16.R, 19.18.R, 19.19.R, 20.4.R, 20.6.R, 22.2.R, 22.3.R, 22.5.R, 22.9.R, 22.10.R, 23.41.V |
| RLPLI_LNK | 19.14.R, 22.2.R, 22.2.V, 22.3.R |
| RLPMDSLGRP | 20.16.R, 22.7.R, 23.2.R |
| RLPMFACGRP | 20.4.R, 20.12.R, 20.23.R, 20.24.R |
| RLPMGRPDSL | 22.7.R, 23.2.R |
| RLPMGRPFAC | 20.4.R, 20.12.R, 20.23.R, 20.24.R |
| RLPMTHRESH | 20.4.R, 20.16.R, 21.34.R, 22.7.R, 22.8.R, 22.15.R, 22.21.R, 23.2.R, 23.8.R, 23.8.V |
| RLPORT_POS | 6.11.R, 21.30.R, 21.32.R, 21.45.R |
| RLPORTIPAD | 21.46.R, 21.47.R |
| RLPOS_LPRT | 21.32.R |
| RLPOS_NOPORT | 21.62.R |
| RLPOS_PORT | 21.1.R, 21.32.R, 21.59.V, 21.62.R, 27.52.R |
| RLPOSRELAB | 21.32.R |
| RLPP_CF | 12.31.R |

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| | |
|---|---|
| RLPP_LTM | 1.5.R, 1.6.R, 1.31.R, 3.5.R, 23.2.R, A.2.R |
| RLPP_MEM | 5.5.R, 5.6.V, 5.7.V, 5.8.V, 5.9.V |
| RLPP_OPTS | 1.31.R, 5.31.R, 12.31.R |
| RLPP_TRUNK | 5.1.R, 5.31.R |
| RLPPSCRMKS | 10.31.R |
| RLPR_DNTRAN | 1.5.R, 1.6.R, 3.5.R, 4.14.R, 6.10.R, 21.34.R, 22.17.R, 23.2.R, 23.3.R, 23.9.V, 23.10.R, 23.11.R, 23.12.R, 23.18.V, 23.40.R, 33.2.R, A.2.R, C.4.R |
| RLPRI_SM | 5.2.R, 5.5.R, 5.9.V, 5.17.V, 13.7.R, 13.8.R, 13.9.V |
| RLPRIFACS | 5.2.R, 5.5.R, 5.9.V |
| RLPRIGRP | 5.1.R, 5.2.R, 5.5.R, 5.9.V, 5.17.V |
| RLPRIM_DNA | 23.2.R, 23.20.R, 23.21.R |
| RLPRISRVGP | 5.17.V |
| RLPRO_NXX | 26.13.R, 26.14.R |
| RLPROPBID | 10.37.R |
| RLPROTPARM | 33.1.R |
| RLPRT_PCI | 5.5.R, 5.9.V |
| RLPRT6LAB | 5.5.R, 5.9.V |
| RLPRT7LAB | 5.1.R, 5.5.R, 5.9.V |
| RLPRTC | 19.7.R, 20.20.R |
| RLPSBILLDN | 3.5.R, 21.34.R, 23.2.R, 23.12.R, 23.40.R |
| RLPSCSTCUG | 21.34.R, 23.2.R, 23.9.V, 23.10.R, 23.12.R, 23.40.R, 27.30.R |
| RLPSCUG_IIC | 5.1.R, 5.14.R |
| RLPSCUGCST | 21.34.R, 23.2.R, 23.10.R |
| RLPSDNICRI | 10.35.R, 21.34.R, 22.4.R, 23.2.R, 23.40.R |
| RLPSGP_LDN | 23.2.R |
| RLPSGP_PRT | 1.5.R, 1.6.R, 3.5.R, 4.14.R, 5.3.R, 5.5.R, 5.9.V, 5.13.R, 7.13.V, 7.14.V, 21.34.R, 23.2.R, 23.3.R, 23.9.V, 23.10.R, 23.11.R, 23.12.R, 23.40.R, 33.2.R, A.2.R, C.4.R |
| RLPSHFINFO | 5.5.R, 5.9.V, 6.11.R, 16.6.R, 16.17.R, 18.15.R, 21.30.R, 21.34.R, 22.2.R, 22.3.R, 22.13.R, 22.16.R, 23.2.R, 23.14.R, 23.40.R, 24.7.R |
| RLPSIPTST | 5.1.R, 5.5.R, 5.9.V |
| RLPSIUPIDB | 5.5.R, 5.9.V, 6.11.R, 16.1.R, 16.6.R, 16.17.R, 17.24.R, 19.12.R, 19.16.R, 21.30.R, 21.34.R, 21.45.R, 22.2.R, 22.2.V, 22.3.R, 22.4.R, 22.5.R, 22.13.R, 22.16.R, 22.19.V, 22.20.V, 22.22.R, 23.2.R, 23.19.R, 23.40.R, 24.7.R |
| RLPSL2THRS | 5.1.R |
| RLPSL3TRKG | 5.1.R, 5.5.R, 5.9.V, 5.14.R |
| RLPSLDN_GP | 4.14.R, 23.2.R |
| RLPSLINKPT | 5.5.R, 5.9.V, 7.14.V |
| RLPSMAPPVC | 5.5.R, 5.9.V, 5.13.R, 21.34.R, 23.2.R, 23.11.R, 23.40.R |
| RLPSMHGDNR | 1.5.R, 1.6.R, 3.5.R, 4.14.R, 22.4.R, 23.2.R, A.2.R, A.11.R |
| RLPSPRT_GP | 4.14.R, 5.5.R, 5.9.V, 7.41.V, 7.42.V, 21.34.R, 23.1.V, 23.2.R, 23.3.R, 23.40.R, 23.41.V, 23.42.V, A.11.R, C.4.R |
| RLPSPSN_RI | 5.13.R, 10.2.R, 10.25.R, 23.11.R |
| RLPSPVCINF | 5.5.R, 5.9.V, 5.13.R, 7.13.V, 21.34.R, 23.2.R, 23.11.R, 23.40.R, 33.2.R |
| RLPSRI_PSN | 5.1.R, 10.2.R, 10.25.R, 10.35.R, 22.4.R |
| RLPSTNI_ID | 5.15.R |
| RLPSTRK_L2 | 5.5.R, 5.9.V, 7.13.V, 23.40.R |
| RLPSTRUNKS | 5.1.R, 5.5.R, 5.9.V |
| RLPSU_TRKG | 5.5.R, 5.9.V, 13.7.R, 13.8.R, 13.9.V, 22.2.R, 22.16.R |
| RLPSULNK | 22.2.R, 22.14.V, 22.22.R |
| RLPSUSM | 22.2.R, 33.1.R |
| RLPSX25LN | 1.5.R, 1.6.R, 3.5.R, 4.14.R, 6.10.R, 7.41.V, 7.42.V, 21.34.R, 23.1.V, 23.2.R, 23.3.R, 23.9.V, 23.10.R, 23.11.R, 23.12.R, 23.20.R, 23.21.R, 23.40.R, 23.41.V, 23.42.V, 27.30.R, A.2.R, A.11.R, C.4.R |
| RLPSX75TRK | 5.5.R, 5.9.V, 5.13.R, 7.13.V |
| RLPU_LTM | 1.23.R |
| RLPU_PORT | 1.23.R |
| RLPUG_SM | 1.23.R |
| RLPUO_CF | 12.13.R |
| RLPUO_ROUT | 1.23.R |
| RLPUO_TM | 1.23.R, 12.4.V, 12.13.R |
| RLPUT_CF | 12.14.R |
| RLPUT_TM | 1.23.R, 12.4.V, 12.14.R |
| RLQENDPTS | 17.20.R, 17.24.R |
| RLQKEYPORT | 5.1.R, 5.5.R, 5.9.V |
| RLQLPS | 17.19.R, 17.20.R, 17.24.R, 18.16.R |
| RLQPHPIPE | 17.24.R |
| RLQPH | 16.16.R, 17.24.R |
| RLQPORT_R | 17.24.R |

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| | |
|---|---|
| RLQTYPES | 17.20.R, 17.24.R |
| RLQU_CFDFL | 1.5.R, 1.6.R, 3.5.R, 3.40.R, 5.5.R, 5.9.V, 7.12.R, 8.13.R, 12.40.R, 23.17.R |
| RLQU_CWL | 3.5.R, 3.40.R, 7.12.R, 8.13.R |
| RLQU_DLY | 1.5.R, 1.6.R, 3.5.R, 3.40.R, 5.1.R, 5.5.R, 5.9.V, 7.3.R, 7.12.R, 23.2.R |
| RLQU_OGTOS | 3.40.R, 5.1.R, 7.3.R, 7.12.R |
| RLQU_OS | 3.5.R, 3.40.R, 7.12.R, 21.34.R, 23.2.R, 23.17.R |
| RLQU_PRI | 3.40.R, 5.1.R, 7.3.R, 7.12.R |
| RLQU_RGBK | 3.40.R, 5.1.R, 7.3.R, 7.12.R |
| RLQU_SM | 3.5.R, 3.40.R, 5.1.R, 7.3.R, 7.12.R |
| RLQU_TCFDF | 3.40.R, 5.1.R, 7.3.R, 7.12.R, 12.40.R |
| RLQVDSTDN | 6.7.R, 6.8.R |
| RLQVVECTOR | 6.7.R, 6.10.R |
| RLR_HOLEQ | 5.1.R, 5.5.R, 5.9.V |
| RLR_QKEYPT | 5.1.R, 5.5.R, 5.9.V |
| RLRAF_MBD | 20.10.R, 20.26.R |
| RLRAS_IDP | 10.19.R |
| RLRATEPERD | 8.16.R, 22.4.R |
| RLRBP_SC | 8.11.R, 8.12.R |
| RLRC_ALPHO | 1.5.R, 1.6.R, 1.11.R, 1.11.V, 1.32.R, 5.5.R, 5.9.V, 5.11.R, 18.1.R, 23.20.R |
| RLRC_ATHCT | 4.17.R, 4.18.R, 4.20.V |
| RLRC_CDRMK | 9.7.R |
| RLRC_CFGBM | 12.5.R, 12.6.R, 12.7.R, 23.2.R, 23.22.V, 23.24.R |
| RLRC_CGIDX | 10.11.R |
| RLRC_CHGRP | 22.16.R |
| RLRC_CIRMK | 5.1.R, 8.51.R, 8.52.R, 8.57.R, 8.59.R, 10.3.R |
| RLRC_CLEI | 19.2.R, 19.4.R, 19.5.R, 19.6.R, 20.2.R, 20.3.V, 20.4.R, 20.5.R, 20.5.V, 20.6.R, 20.12.R |
| RLRC_CNINF | 21.34.R, 23.2.R, 23.40.R |
| RLRC_CON | 9.1.R, 9.3.R, 9.6.R, 9.9.R, 9.15.R, 9.24.V, 9.25.R, A.7.R |
| RLRC_CTUR | 23.19.R |
| RLRC_CVRMK | 9.4.R |
| RLRC_DAS | 4.5.R, 5.5.R, 5.9.V, 6.10.R, 8.1.R, 8.15.R, 8.51.R, 8.52.R, 8.53.R, 8.57.R, 8.59.R, 9.1.R, 9.3.R, 9.4.R, 9.24.V, 9.25.R, 9.40.R, A.7.R |
| RLRC_DFIMAP | 5.2.R, 5.5.R, 5.9.V, 7.41.V, 18.1.R, 18.5.R, 18.5.V, 18.9.R, 20.4.R, 23.41.V |
| RLRC_DGT | 9.1.R, 9.3.R, 9.6.R, 9.9.R, 9.15.R, 9.24.V, 9.25.R, A.7.R |
| RLRC_DLTP | 7.41.V, 18.1.R, 18.9.R, 20.4.R, 23.40.R, 23.41.V |
| RLRC_DNINFO | 1.5.R, 1.6.R, 1.23.R, 4.29.R, 21.34.R, 23.2.R, 23.20.R, 23.20.V, 23.21.R, 23.40.R, A.2.R |
| RLRC_EISNM | 10.1.R, 10.2.R, 10.25.R, 21.51.R, 21.52.R, 21.53.R, 21.54.R, 21.55.R, 21.56.V |
| RLRC_EQLOC | 1.5.R, 1.6.R, 5.1.R, 5.5.R, 5.9.V, 6.11.R, 7.11.R, 7.41.V, 8.7.R, 8.12.R, 8.14.R, 13.6.R, 13.7.R, 13.8.R, 13.9.V, 14.6.R, 14.7.R, 14.18.R, 16.6.R, 18.1.R, 18.4.R, 18.4.V, 18.7.V, 18.10.R, 18.11.R, 18.12.R, 18.15.R, 19.1.R, 19.2.R, 19.4.R, 19.5.R, 19.6.R, 19.7.R, 19.9.R, 19.10.R, 19.11.R, 19.12.R, 19.14.R, 19.15.R, 19.16.R, 19.18.R, 19.19.R, 20.1.R, 20.1.V, 20.2.R, 20.3.V, 20.4.R, 20.5.R, 20.5.V, 20.6.R, 20.7.R, 20.7.V, 20.8.R, 20.9.R, 20.10.R, 20.11.R, 20.13.V, 20.16.R, 20.20.R, 20.21.R, 20.22.R, 20.23.R, 20.26.R, 21.30.R, 21.34.R, 21.45.R, 22.1.R, 22.2.R, 22.2.V, 22.3.R, 22.4.R, 22.5.R, 22.6.R, 22.6.V, 22.7.R, 22.8.R, 22.8.V, 22.9.R, 22.10.R, 22.12.V, 22.17.R, 22.19.V, 22.20.V, 22.21.R, 22.23.V, 22.24.R, 23.2.R, 23.13.R, 23.19.R, 23.40.R, 23.41.V, A.2.R |
| RLRC_FNL | 9.1.R, 9.3.R, 9.6.R, 9.9.R, 9.15.R, 9.24.V, 9.25.R, A.7.R |
| RLRC_HOLE | 17.24.R, 23.15.R, 33.1.R, 33.2.R, C.2.R, C.4.R |
| RLRC_HOTEL | 26.11.R |
| RLRC_ICITG | 3.5.R, 3.43.R, 21.34.R, 23.2.R |
| RLRC_ICRTN | 7.3.R, 12.5.R, 12.6.R, 12.7.R, 21.34.R, 23.2.R |
| RLRC_IDDD | 9.6.R, 27.55.R |
| RLRC_IDIDX | 9.10.R, 9.13.R, 9.27.R |
| RLRC_IDRMK | 9.5.R, 9.24.V |
| RLRC_IDX | 1.5.R, 1.6.R, 5.1.R, 5.5.R, 5.9.V, 6.9.R, 7.1.R, 8.49.R, 8.55.R, 9.1.R, 9.2.R, 9.3.R, 9.5.R, 9.6.R, 9.15.R, 9.24.V, 9.25.R, 21.34.R, 23.2.R, 23.40.R, A.2.R |
| RLRC_ILTH | 1.5.R, 1.6.R, 18.1.R, 21.34.R, 23.2.R, 23.20.R, 23.20.V, 23.21.R |
| RLRC_INDIT | 9.1.R, 9.5.R, 9.24.V |
| RLRC_LAHOL | 18.1.R, 21.34.R, 23.2.R |
| RLRC_LCC | 1.5.R, 1.6.R, 1.60.R, 2.5.V, 4.1.R, 8.24.R, 10.10.R, 12.9.R, 21.34.R, 23.2.R, 23.15.R, 23.40.R, A.2.R, C.4.R |

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| RLRC_LDIT | 6.10.R, 8.53.R, 9.1.R, 9.3.R, 9.6.R, 9.15.R, 9.24.V, 9.25.R, A.7.R |
| RLRC_LDRMK | 9.3.R, 9.6.R, 9.15.R, 9.24.V, 9.25.R, A.7.R |
| RLRC_LOCEQ | 5.2.R, 5.5.R, 5.9.V, 7.41.V, 8.14.R, 16.6.R, 17.1.R, 17.2.R, 17.11.R, 17.12.R, 17.13.R, 17.14.R, 17.16.R, 17.17.R, 17.18.R, 17.21.R, 18.1.R, 18.6.V, 18.7.V, 19.1.R, 19.2.R, 19.4.R, 19.5.R, 19.6.R, 19.7.R, 19.9.R, 19.10.R, 19.11.R, 19.12.R, 19.15.R, 19.16.R, 19.18.R, 19.19.R, 20.4.R, 20.6.R, 20.8.R, 20.9.R, 20.11.R, 20.23.R, 20.26.R, 22.2.R, 22.3.R, 22.5.R, 22.8.R, 22.9.R, 22.10.R, 23.41.V |
| RLRC_LPHOL | 1.5.R, 1.6.R, 18.1.R, 21.34.R, 22.17.R, 23.2.R, 23.20.R, 23.20.V, 23.21.R |
| RLRC_MMINF | 1.5.R, 1.6.R, 3.5.R, 4.29.R, 21.34.R, 23.2.R, 23.21.R |
| RLRC_MSD | 13.3.R, 13.3.V |
| RLRC_MSUSR | 3.3.R, 3.5.R, 4.36.V, 4.37.R |
| RLRC_MULTIDN | 1.9.R, 1.15.V, 3.3.R, 3.5.R, 4.14.R |
| RLRC_ODB | 21.34.R, 22.14.V, 22.16.R, 22.19.V, 22.20.V, 23.2.R, 23.14.R |
| RLRC_OEINFO | 1.5.R, 1.6.R, 1.8.R, 1.8.V, 1.10.R, 1.11.R, 1.15.V, 1.23.R, 1.26.R, 1.32.R, 1.46.R, 1.60.R, 1.62.R, 2.5.V, 3.3.R, 3.5.R, 3.9.R, 4.10.R, 4.10.V, 4.29.R, 4.48.R, 5.11.R, 5.26.R, 12.5.R, 12.6.R, 14.6.R, 18.15.R, 21.34.R, 23.2.R, 23.8.R, 23.8.V, A.2.R, A.13.R, C.4.R |
| RLRC_OFRMK | 8.2.R |
| RLRC_OLTH | 1.5.R, 1.6.R, 1.32.R, 5.5.R, 5.9.V, 6.11.R, 18.1.R, 21.30.R, 23.20.R, 23.20.V, 23.21.R, 26.11.R |
| RLRC_PDIT | 4.5.R, 9.1.R, 9.2.R, 9.24.V |
| RLRC_PDRMK | 9.2.R, 9.24.V |
| RLRC_PGMU | 1.23.R |
| RLRC_PGRPRMK | 1.5.R, 1.6.R, 1.15.V, 1.22.R, 3.3.R, 3.5.R, 4.14.R, 4.29.R, 7.42.V, 21.34.R, 23.2.R, 23.40.R, 23.42.V, A.2.R, C.4.R |
| RLRC_PGTC | 14.7.R |
| RLRC_QEND | 17.24.R |
| RLRC_QIDX | 1.32.R, 16.9.R, 16.10.R, 17.24.R, 18.1.R, 18.15.R, 22.17.R, 23.15.R, 33.1.R, 33.2.R, C.2.R, C.4.R |
| RLRC_QKEY | 5.1.R, 5.5.R, 5.9.V |
| RLRC_QTMS | 17.19.R, 17.20.R, 17.24.R |
| RLRC_RDIT | 9.3.R, 9.9.R, 9.24.V |
| RLRC_RDRMK | 9.9.R |
| RLRC_SCRN | 7.3.R, 10.10.R |
| RLRC_SERVM | 1.5.R, 1.6.R, 3.5.R, 8.13.R, A.2.R |
| RLRC_SFG | 7.3.R, 8.13.R, 13.3.R |
| RLRC_SGPDN | 1.5.R, 1.6.R, 1.15.V, 1.22.R, 3.3.R, 3.5.R, 3.7.V, 21.34.R, 23.2.R, A.2.R |
| RLRC_SPID | 23.1.V, 23.2.R, C.4.R |
| RLRC_TEMP | 5.5.R, 5.9.V |
| RLRC_TKTXC | 5.1.R, 5.3.R, 5.5.R, 5.9.V |
| RLRC_TNMLH | 3.5.R, 4.14.R |
| RLRC_TRK | 5.1.R, 5.3.R, 5.5.R, 5.9.V, A.5.R |
| RLRC_TUR | 19.12.R, 21.34.R, 22.5.R, 23.2.R, 23.13.R |
| RLRC_UNIDX | 1.21.R, 5.21.R, 9.20.R, 9.21.R, 9.22.R, 9.23.R, 10.5.R |
| RLRC_UNRMK | 1.21.R, 5.21.R, 9.20.R, 9.21.R, 10.5.R |
| RLRCACSR_Q | 1.50.R |
| RLRCANI_II | 8.74.R |
| RLRCAPDATA | 24.1.R, 24.7.R |
| RLRCB_HCB | 18.1.R, 18.5.R, 20.11.R |
| RLRCFACIDS | 16.22.R, 16.25.R |
| RLRCFTRKEY | 1.22.R, 1.26.R, 1.32.R, 4.3.R, 5.26.R |
| RLRCLK_SC | 8.13.R |
| RLRCLKDEF | 20.11.R |
| RLRCMBGNM | 4.12.R |
| RLRCNETGRP | 1.21.R, 5.1.R, 5.21.R, 10.27.R |
| RLRCNSFMAP | 5.1.R, 5.5.R, 5.9.V, 5.34.R, 5.34.V |
| RLRCPFAKEY | 7.1.R |
| RLRCRTIRMK | 10.2.R, 10.25.R, 10.40.R, A.8.R |
| RLRCRTMOD | 4.14.R, 18.1.R, 23.18.V |
| RLRCSDL_LG | 16.5.R, 16.6.R |
| RLRCTGFEAT | 5.1.R, 5.4.R, 5.5.R, 5.9.V |
| RLRCTGRPRK | 1.5.R, 1.6.R, 1.21.R, 3.5.R, 4.29.R, 4.63.R, 5.1.R, 5.5.R, 5.9.V, 5.10.R, 5.13.R, 5.16.R, 5.21.R, 7.13.V, 8.9.R, 8.51.R, 8.52.R, 8.54.R, 8.59.R, 9.41.R, 10.1.R, 10.2.R, 10.17.R, 10.25.R, 10.35.R, 10.38.R, 10.40.R, 14.3.R, 14.4.R, 18.1.R, 21.42.R, 21.53.R, 21.57.R, 21.58.R, 22.17.R, 23.2.R, 23.20.R, 23.20.V, 26.24.R, 26.26.R, 27.51.R, 27.52.R, A.5.R, A.6.R, A.8.R |

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| RLRDFI_CON | 7.41.V, 18.1.R, 20.4.R, 23.41.V |
| RLRDT2UNIT | 18.15.R |
| RLREMBV_RI | 3.5.R, 4.14.R, 4.63.R, 23.2.R |
| RLRESXDL | 21.2.R, 21.5.R, 21.5.V |
| RLRG2AIU | 19.16.R, 20.16.R |
| RLRI_DGRP | 6.11.R, 21.30.R, 21.34.R, 23.2.R, 24.7.R |
| RLRIBM_SC | 6.11.R, 21.30.R, 26.15.R |
| RLRISLUDFI | 18.7.V, 19.4.R, 21.45.R, 22.9.R, 22.10.R |
| RLRMBLIST | 1.5.R, 1.6.R, 3.9.R, 23.2.R |
| RLRND_OPTS | 12.59.R |
| RLROTL_CB | 14.2.R |
| RLRPMA | 22.24.R |
| RLRPSITE | 19.16.R, 20.16.R, 22.11.R, 22.24.R |
| RLRPTRNSCV | 20.5.R |
| RLRR_DN | 21.27.R |
| RLRSM2HTU | 18.5.R, 18.5.V |
| RLRSMCHAN | 18.1.R, 18.5.R |
| RLRSMFAC_CON | 18.5.R, 18.5.V |
| RLRSMNTS | 18.1.R, 18.5.R |
| RLRT_DNTRAN | 1.5.R, 1.6.R, 1.9.R, 1.15.V, 1.22.R, 1.23.R, 1.29.R, 1.32.R, 1.37.R, 1.49.R, 1.60.R, 1.62.R, 1.64.R, 3.3.R, 3.5.R, 4.4.R, 4.9.R, 4.10.R, 4.10.V, 4.14.R, 4.29.R, 4.39.R, 4.48.R, 4.65.R, 5.29.R, 5.64.R, 6.10.R, 6.15.V, 7.4.R, 12.6.R, 13.7.R, 13.8.R, 13.9.V, 13.10.R, 14.3.R, 21.34.R, 21.42.R, 22.17.R, 23.2.R, 23.3.R, 23.12.R, 23.17.R, 23.20.R, 23.20.V, 23.21.R, 23.22.V, 23.23.R, 23.40.R, 26.11.R, 26.11.V, A.2.R, C.4.R |
| RLRT_DTRTX | 10.2.R |
| RLRT_EDN | 1.5.R, 1.6.R, 3.5.R, 4.9.R, 21.34.R, 23.2.R, 23.40.R, A.2.R, C.4.R |
| RLRT_EMRNM | 4.9.R, 4.9.V |
| RLRT_FIXEDRI | 1.5.R, 1.6.R, 5.5.R, 5.9.V, 8.1.R, 8.2.R, 9.3.R, 9.9.R, 9.15.R, 9.24.V, 10.1.R, 10.2.R, 10.25.R, 10.40.R, 21.53.R, 23.2.R |
| RLRT_GPSF | 1.29.R, 5.1.R, 5.29.R |
| RLRT_LAPD | 18.15.R |
| RLRT_LGMEM | 1.5.R, 1.6.R, 4.14.R, 24.12.R |
| RLRT_MCRT | 5.1.R, 5.5.R, 5.9.V, 5.34.R, 7.1.R, 7.2.R, 7.3.R, 7.4.R, 10.4.R, 10.6.R, 10.7.R, 10.24.R, 10.31.R |
| RLRT_MCTR | 1.5.R, 1.6.R, 1.9.R, 1.29.R, 3.3.R, 3.5.R, 5.29.R, 6.10.R, 7.4.R, 23.20.R, A.2.R |
| RLRT_MEM | 1.5.R, 1.6.R, 3.5.R, 4.14.R, 24.12.R |
| RLRT_MHG | 1.5.R, 1.6.R, 1.15.V, 1.22.R, 1.23.R, 1.25.R, 1.31.R, 1.37.R, 1.46.R, 1.62.R, 1.64.R, 3.3.R, 3.5.R, 3.6.R, 3.7.V, 3.9.R, 3.40.R, 3.43.R, 4.10.R, 4.10.V, 4.14.R, 4.26.V, 4.28.V, 4.29.R, 4.46.R, 4.48.R, 4.63.R, 5.1.R, 5.64.R, 7.3.R, 7.12.R, 8.13.R, 12.5.R, 12.7.R, 13.3.R, 13.3.V, 21.34.R, 23.2.R, 23.3.R, 23.11.R, 23.12.R, 23.17.R, 23.20.R, 23.21.R, 23.40.R, 24.4.R, 24.12.R, 33.2.R, A.2.R, A.11.R, C.4.R |
| RLRT_MISC | 18.15.R, 23.2.R |
| RLRT_MPG | 1.5.R, 1.6.R, 1.21.R, 1.26.R, 1.29.R, 1.33.R, 1.51.R, 1.64.R, 3.5.R, 4.14.R, 5.21.R, 5.26.R, 5.29.R, 5.33.R, 5.51.R, 5.64.R, 21.34.R, 23.2.R, 23.3.R, 23.12.R, 23.40.R |
| RLRT_POLY | 9.15.R, 10.4.R, 10.31.R, 10.34.R |
| RLRT_ROUTING | 1.5.R, 1.6.R, 1.29.R, 1.46.R, 4.9.R, 4.14.R, 4.17.R, 4.21.R, 4.46.R, 4.61.R, 4.63.R, 5.1.R, 5.5.R, 5.9.V, 5.29.R, 6.4.R, 6.7.R, 7.1.R, 7.3.R, 9.2.R, 9.3.R, 9.5.R, 9.6.R, 9.9.R, 9.15.R, 9.24.V, 10.1.R, 10.2.R, 10.4.R, 10.5.R, 10.7.R, 10.10.R, 10.17.R, 10.19.R, 10.25.R, 10.26.R, 10.31.R, 10.34.R, 10.35.R, 10.37.R, 10.38.R, 10.39.R, 10.40.R, 12.46.R, 18.1.R, 20.16.R, 21.2.R, 21.22.R, 21.41.R, 21.42.R, 21.53.R, 21.54.R, 26.22.R, A.2.R, A.8.R |
| RLRT_SCRNING | 4.1.R, 5.1.R, 6.10.R, 8.1.R, 8.24.R, 8.52.R, 8.53.R, 8.57.R, 9.35.R, 10.2.R, 10.10.R, 10.25.R, 21.2.R, 21.24.R, 21.27.R, 26.5.R, 26.22.R, 26.25.R, 26.26.R, A.8.R |
| RLRT_SFG | 3.40.R, 5.34.R, 7.2.R, 7.3.R, 7.12.R, 10.4.R, 12.5.R, 12.7.R, 13.3.R, 13.3.V, 24.4.R, 24.33.R |
| RLRT_SPECRI | 1.5.R, 1.6.R, 4.14.R, 14.3.R, A.2.R |
| RLRT_TGBL | 5.1.R, 7.3.R, 8.13.R |
| RLRT_TGID | 1.29.R, 5.29.R, 7.2.R |
| RLRT_TG | 1.21.R, 1.29.R, 4.4.R, 4.12.R, 5.21.R, 5.29.R |

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| RLRT_TM | 1.28.R, 1.61.R, 5.28.R, 12.20.R |
| RLRT_TRKG | 1.5.R, 1.6.R, 1.21.R, 1.29.R, 3.5.R, 3.40.R, 3.43.R, 4.9.R, 4.12.R, 4.29.R, 4.63.R, 5.1.R, 5.5.R, 5.9.V, 5.21.R, 5.29.R, 5.31.R, 5.34.R, 5.46.R, 6.4.R, 7.3.R, 7.5.R, 7.12.R, 8.54.R, 10.1.R, 10.2.R, 10.17.R, 10.25.R, 10.26.R, 10.40.R, 12.5.R, 12.7.R, 13.3.R, 13.3.V, 13.7.R, 13.8.R, 13.9.V, 14.1.R, 14.8.R, 14.11.R, 14.12.R, 19.21.R, 20.21.R, 21.2.R, 21.22.R, 21.23.R, 21.27.R, 21.53.R, 21.54.R, 22.2.R, 22.16.R, 23.2.R, 23.20.R, 23.20.V, 24.4.R, 24.12.R, 26.26.R, 27.51.R, 27.52.R, A.5.R, A.6.R, C.4.R |
| RLRT_WBRTX | 5.1.R, 10.2.R |
| RLRT2DS1 | 7.11.R, 18.15.R |
| RLRTANNGRP | 5.1.R |
| RLRTDN_MHG | 1.22.R, 1.29.R, 3.3.R, 3.5.R, 4.4.R, 4.14.R, 4.65.R, 5.29.R, A.2.R |
| RLRTDNMOD | 1.5.R, 1.6.R, 1.9.R, 1.11.R, 1.11.V, 1.15.V, 1.49.R, 1.60.R, 1.64.R, 3.3.R, 3.5.R, 4.14.R, 4.27.V, 4.29.R, 4.39.R, 4.48.R, 4.65.R, 5.11.R, 5.64.R, 6.10.R, 6.15.V, 13.7.R, 13.8.R, 13.9.V, 13.10.R, 21.34.R, 21.42.R, 22.17.R, 23.2.R, 23.11.R, 23.18.V, 23.20.R, 23.20.V, 23.21.R, 23.40.R, 26.11.R, 26.11.V, A.2.R, C.4.R |
| RLRTDNMPG | 1.5.R, 1.6.R, 3.5.R, 4.14.R, 21.34.R, 22.4.R, 23.2.R, 23.12.R, 23.18.V, 23.40.R |
| RLRTENVALM | 18.15.R |
| RLRTFTRKEY | 1.32.R, 4.3.R |
| RLRTGRPDN | 1.5.R, 1.6.R, 3.5.R, 4.10.R, 4.10.V, 23.2.R, 23.20.R, A.2.R |
| RLRTICITK | 3.5.R, 3.43.R, 21.34.R, 23.2.R |
| RLRTISATMP | 3.5.R, 3.43.R, 21.34.R, 23.2.R |
| RLRTLIST | 10.40.R |
| RLRTPPSCRN | 10.31.R, 12.31.R |
| RLRTS_HCN | 18.1.R, 18.5.R |
| RLRTS_RTS | 18.9.R |
| RLRTSATLN | 1.5.R, 1.6.R, A.2.R |
| RLRXSCHD | 8.3.R |
| RLS96DIODE | 8.13.R, 18.10.R, 18.12.R, 18.15.R |
| RLS96EQUIP | 1.5.R, 1.6.R, 18.10.R, 18.11.R, 18.12.R, A.2.R |
| RLS96SMTB | 18.10.R, 18.12.R, 18.15.R |
| RLSA_RMVTK | 5.5.R, 5.9.V |
| RLSASFMCRD | 20.26.R |
| RLSC_CF | 12.51.R |
| RLSC_OPTS | 1.30.R, 1.51.R, 5.30.R, 5.51.R, 12.51.R |
| RLSC_PORT | 1.51.R, 4.2.R, 5.51.R, A.2.R, A.3.R |
| RLSC_RANGE | 5.1.R, 5.5.R, 5.9.V, 7.5.R |
| RLSCA_LTM | 1.5.R, 1.6.R, 4.48.R, 23.2.R |
| RLSCCP_PC | 16.8.R, 16.9.R, 16.22.R |
| RLSCCPSCR | 16.21.R, 16.22.R, 16.24.R |
| RLSCD_SAC | 9.8.R |
| RLSCD_SCRN | 1.60.R, 1.60.V, A.12.R |
| RLSCF_LTM | 1.5.R, 1.6.R, 4.48.R, 23.2.R |
| RLSCM_NSCM | 1.5.R, 1.6.R, 1.32.R, 21.34.R, 23.2.R, 23.20.R, 23.20.V, A.2.R |
| RLSCMSGPRI | 16.21.R |
| RLSCORE | 17.4.R, 17.11.R, 17.12.R, 17.16.R, 17.18.R, 17.19.R, 17.20.R, 17.21.R, 17.22.R, 17.24.R, 18.16.R |
| RLSCP_SCRN | 4.64.R |
| RLSCR_LTM | 1.5.R, 1.6.R, 4.48.R, 23.2.R |
| RLSCRIDXPA | 8.24.R |
| RLSCROAR | 10.10.R, 26.5.R, 26.5.V |
| RLSDA_LTM | 1.5.R, 1.6.R, 4.48.R, 23.2.R |
| RLSDL_ST | 7.41.V, 7.42.V, 16.5.R, 16.6.R, 23.41.V, 23.42.V |
| RLSEC_DNA | 23.2.R, 23.20.R, 23.21.R |
| RLSEILABEL | 26.49.R |
| RLSEQREST | 26.41.R |
| RLSERVDATA | 8.9.R, 8.61.R, 10.2.R, 10.25.R, 21.22.R, 21.23.R, 21.51.R, 21.52.R, 21.53.R, 21.54.R, 21.55.R, 26.8.R, 26.9.R, 26.10.R |
| RLSERVDES | 8.9.R, 27.70.R, 27.71.R, 27.72.R, 27.73.R, 27.95.R |
| RLSFG_ASFC | 7.3.R |
| RLSHTERM | 1.5.R, 1.6.R, 1.11.R, 1.11.V, 1.22.R, 1.23.R, 1.25.R, 1.29.R, 1.30.R, 1.31.R, 1.37.R, 1.38.R, 1.62.R, 3.5.R, 5.11.R, 5.29.R, 5.30.R, 12.8.R, 21.34.R, 23.2.R, 23.20.R, 23.20.V, 23.21.R |
| RLSID_DS1 | 18.10.R, 18.15.R |
| RLSIMSUPRT | 3.5.R, 8.7.R, 8.13.R |

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| RLSL_LENTL | 14.13.R, 14.16.R |
| RLSL_SESSN | 14.16.R, 14.17.R |
| RLSL_THRSH | 14.15.R, 14.16.R |
| RLSL_TJOB | 14.13.R, 14.14.R, 14.15.R, 14.16.R, 14.17.R |
| RLSL_TSET | 14.14.R, 14.16.R |
| RLSLNKTMS | 17.1.R, 17.11.R, 17.12.R, 17.18.R, 17.19.R, 17.21.R, 17.22.R, 17.23.R, 18.1.R, 18.16.R |
| RLSM_TRKG | 5.1.R |
| RLSMADDSC | 1.26.R, 1.51.R, 4.2.R, 5.26.R, 5.51.R |
| RLSMCONF | 5.2.R, 5.5.R, 5.9.V, 5.14.R, 5.15.R, 6.11.R, 8.1.R, 8.9.R, 8.18.R, 18.1.R, 18.15.R, 19.5.R, 19.13.R, 20.22.R, 21.30.R, 21.31.V, 22.1.R, 22.4.R, 22.9.R, 22.13.R, 23.40.R, 25.1.R |
| RLSMFACIDS | 1.51.R, 4.2.R, 5.51.R |
| RLSMGTGDXC | 20.1.R |
| RLSMPORTBL | 22.13.R |
| RLSMPSU | 5.5.R, 5.9.V, 13.7.R, 13.8.R, 13.9.V, 22.2.R, 22.2.V, 22.14.V, 22.16.R |
| RLSMSCU | 17.17.R, 17.21.R |
| RLSMSEQIDX | 4.48.R, 18.1.R |
| RLSNCREF | 17.4.R, 17.16.R, 17.21.R |
| RLSPABILLDN | 5.1.R, 5.5.R, 5.9.V, 10.20.R, 10.21.R |
| RLSPABNDSCRN | 5.1.R, 5.5.R, 5.9.V, 10.20.R |
| RLSPAENXX | 5.5.R, 5.9.V, 10.21.R |
| RLSPC | 17.2.R, 17.3.R, 17.13.R, 17.14.R, 17.15.R, 17.19.R, 17.20.R, 17.21.R |
| RLSPID | 1.37.R, 1.38.R, 1.49.R, 21.34.R, 23.1.V, 23.2.R, 23.20.R, 23.21.R, 23.23.R, C.4.R |
| RLSRCREF | 20.11.R |
| RLSRV_DEST | 10.1.R, 10.2.R, 10.25.R, 10.40.R, 21.51.R, 21.53.R, 21.54.R |
| RLSRVCDESC | 8.32.R |
| RLSRVCODE | 26.2.R |
| RLSSDLC | 17.2.R, 17.3.R, 17.14.R, 17.15.R, 17.21.R, 18.1.R |
| RLSSN_USER | 8.17.R |
| RLSSP_ANN | 10.17.R |
| RLST2VPIDB | 20.12.R, 20.24.R |
| RLSTINFO | 9.1.R, 10.2.R, 10.3.R, 10.10.R, 10.25.R, 21.1.R, 21.2.R, 21.3.V, 21.4.R, 21.5.R, 21.5.V, 21.7.R, 21.8.R, 21.17.R, 21.18.R, 21.22.R, 21.41.R, 21.55.R, 27.31.R |
| RLSTPARM | 6.1.R, 6.3.R, 6.4.R, 6.7.R, 6.10.R |
| RLSTSPTRC | 20.12.R |
| RLT1ACCESS | 27.23.R |
| RLTALK_KEY | 5.5.R, 5.9.V |
| RLTATYPE | 8.6.R, 10.1.R, 10.3.R |
| RLTC_LTP | 19.19.R |
| RLTCCID | 8.9.R, 8.66.R, 8.72.R, 9.6.R, 26.6.R, 27.45.R, 27.55.R, 27.56.R, 27.57.V, 27.58.R, 27.60.R |
| RLTCPIPDB | 21.46.R, 21.47.R |
| RLTCSCC | 27.1.R, 27.3.R |
| RLTCSNPA | 27.1.R, 27.2.R |
| RLTCSSCRN | 27.1.R, 27.2.R, 27.3.R |
| RLTCSTEXT | 27.1.R, 27.2.R, 27.3.R |
| RLTD_CF | 12.22.R |
| RLTD_CODE | 1.21.R, 1.26.R, 1.30.R, 1.41.R, 1.42.R, 1.46.R, 4.5.R, 4.6.V, 4.8.V, 4.17.R, 5.21.R, 5.26.R, 5.30.R, 5.41.R, 5.42.R, 8.51.R, 8.59.R, 25.1.R |
| RLTD_SCHED | 1.21.R, 1.26.R, 1.30.R, 1.41.R, 1.42.R, 1.46.R, 4.5.R, 4.6.V, 4.8.V, 4.17.R, 5.21.R, 5.26.R, 5.30.R, 5.41.R, 5.42.R, 8.51.R, 8.59.R, 24.4.R, 25.1.R |
| RLTD_TM | 1.26.R, 1.30.R, 4.5.R, 5.26.R, 5.30.R, 12.22.R |
| RLTDASSIGN | 24.3.R, 24.4.R, 24.12.R |
| RLTDEC_CKT | 19.18.R, 20.5.R, 20.21.R |
| RLTDR_RTI | 10.39.R, 18.1.R |
| RLTDR | 10.39.R, 18.1.R |
| RLTDXCARTB | 8.52.R |
| RLTERA_MS | 5.1.R, 14.8.R |
| RLTERMCADN | 22.4.R, 23.2.R |
| RLTERMKYDN | 21.34.R, 23.2.R, 23.20.R, 23.20.V, 23.22.V, 23.23.R |
| RLTFANI_II | 8.74.R |
| RLTG_CFDFL | 1.29.R, 5.29.R, 12.21.R |
| RLTG_CF | 12.21.R |
| RLTG_LTMER | 1.29.R, 5.29.R |
| RLTGCNTMSK | 1.5.R, 1.6.R, 3.5.R, 4.28.V, 4.29.R, 5.5.R, 5.9.V, 23.2.R, 23.20.R |
| RLTGMBR_AM | 22.16.R |

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| | |
|---|---|
| RLTGNLEC | 27.20.R, 27.21.R, 27.22.V |
| RLTGNTNSC | 8.53.R, 8.54.R |
| RLTGTOATT | 3.5.R, 4.63.R, 5.1.R, 7.3.R, 12.5.R, 12.7.R |
| RLTHCOSTAT | 11.2.R |
| RLTIME_SET | 26.30.R, 26.32.R, 26.33.R |
| RLTLWSR | 1.5.R, 1.6.R, 5.5.R, 5.9.V, 8.13.R, 14.3.R |
| RLTM_ATTT | 5.1.R, 14.1.R, 14.11.R, 14.12.R |
| RLTM_DTRT | 5.1.R, 14.1.R, 14.11.R |
| RLTM_NRLTH | 14.12.R |
| RLTM_TMTH | 5.1.R, 14.1.R, 14.12.R |
| RLTM_WS101 | 14.3.R, 14.4.R, 14.5.V |
| RLTMBLIST | 1.5.R, 1.6.R, 3.9.R, 4.14.R, 21.34.R, 23.2.R, A.2.R |
| RLTMP3OSPS | 27.85.R |
| RLTMP8OSPS | 27.85.R |
| RLTMSPIPE | 17.19.R, 17.20.R, 17.24.R |
| RLTMTSC | 9.3.R, 9.9.R, 9.15.R, 9.24.V, A.7.R |
| RLTN_DEF | 5.1.R |
| RLTONETIME | 8.6.R |
| RLTPR_CC | 10.3.R |
| RLTPR_NPA | 10.3.R, 27.5.R |
| RLTPRINTL | 27.6.R |
| RLTR8CONV | 1.5.R, 1.6.R, 5.5.R, 5.9.V, 18.15.R |
| RLTRAN_GP | 8.42.R, 16.20.R, 16.21.R, 16.22.R, 16.23.R, 16.24.R |
| RLTRCUPATH | 17.23.R |
| RLTRCURMK | 17.23.R |
| RLTREE_BLF | 1.5.R, 1.6.R, 3.5.R, 4.14.R, 4.27.V, 4.29.R, 21.34.R, 23.2.R, 23.20.R |
| RLTRMFEATS | 1.11.R, 1.11.V, 1.12.R, 1.21.R, 1.26.R, 1.30.R, 1.49.R, 1.51.R, 1.64.R, 4.3.R, 5.1.R, 5.11.R, 5.12.R, 5.21.R, 5.26.R, 5.30.R, 5.51.R, 5.64.R, 12.5.R, 12.6.R, 12.8.R, 12.9.R, 21.34.R, 23.2.R, A.2.R, A.3.R, A.10.R |
| RLTSCOUNT | 5.5.R, 5.9.V, 6.11.R, 18.15.R, 21.30.R, 21.34.R, 22.2.R, 22.3.R, 22.13.R, 23.2.R, 23.19.R, 23.40.R, 24.7.R |
| RLTSM_BMAP | 23.24.R |
| RLTSM_BTN | 23.24.R |
| RLTSM_UMAP | 23.24.R |
| RLTSMTRING | 23.24.R, 23.25.V |
| RLTSP2APP | 7.11.R, 18.5.R, 18.15.R, 19.16.R, 19.22.R, 20.4.R, 20.24.R |
| RLTSTP2UNIT | 19.16.R, 20.16.R |
| RLUCNF_CKT | 19.19.R, 20.5.R |
| RLUN_ONRMK | 1.21.R, 5.21.R, 9.23.R, 10.5.R |
| RLUNCNFLCT | 1.21.R, 5.21.R, 9.20.R, 9.21.R, 10.5.R |
| RLUNDPINFO | 1.21.R, 5.21.R, 9.20.R, 9.21.R, 9.22.R, 9.23.R, 10.5.R |
| RLUNDTRE | 1.21.R, 5.21.R, 9.20.R, 9.21.R, 10.5.R |
| RLUNIT_CKT | 5.5.R, 5.8.V, 5.9.V, 13.7.R, 13.8.R, 13.9.V, 16.6.R, 17.24.R, 18.2.R, 18.3.R, 18.5.V, 18.6.V, 18.7.V, 18.15.R, 18.16.R, 18.17.R, 19.13.R, 19.14.R, 19.16.R, 19.18.R, 19.19.R, 19.20.R, 19.21.R, 19.22.R, 20.12.R, 20.16.R, 20.24.R, 22.21.R |
| RLUNIT_MH | 19.14.R, 19.16.R |
| RLUNIT2MAB | 19.16.R |
| RLUNIT2RDT | 18.15.R |
| RLUNITTYP | 18.1.R, 19.1.R, 19.6.R, 19.12.R, 22.5.R, 22.9.R |
| RLUNNSC | 1.21.R, 5.21.R, 9.20.R, 9.21.R, 10.5.R |
| RLUNOFFON | 1.21.R, 5.21.R, 9.20.R, 9.21.R, 9.22.R, 10.5.R |
| RLUNON_DI | 1.21.R, 5.21.R, 9.23.R, 10.5.R |
| RLUNONOFF | 1.21.R, 5.21.R, 9.23.R, 10.5.R |
| RLUNSDS | 1.21.R, 5.21.R, 9.20.R, 9.21.R, 10.5.R |
| RLUTTRK | 5.16.R |
| RLVALOFFC | 5.1.R, 26.16.R, 26.24.R |
| RLVMSTPR | 27.64.R |
| RLVPIDB_F | 18.15.R, 20.24.R |
| RLWBTBLOCK | 5.1.R, 5.5.R, 5.9.V |
| RLXAT_PORT | 23.40.R |
| RLXCVR_CKT | 1.37.R, 19.18.R, 20.21.R |
| RLXNDLDSL | 6.11.R, 21.1.R, 21.30.R, 21.45.R, 21.51.R, 21.58.R |
| RLXNDSL | 24.7.R |

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## List of Figures

Figure 1 : Stored Structure of Virtual Relation AD1B_IDP

Figure 1 : Stored Structure of Virtual Relation AD1S_IDP

Figure 1 : Stored Structure of Virtual Relation AD2B_IDP

Figure 1 : Stored Structure of Virtual Relation AD2S_IDP

Figure 1 : Stored Structure of Virtual Relation ASI_PORT

Figure 1 : Virtual Relation CF_LTM

Figure 1 : Virtual Relation CW_PORT

Figure 1 : Virtual Relation DAA_DN

Figure 1 : Virtual Relation DAPRLFNL

Figure 1 : Virtual Relation DAPRMFNL

Figure 1 : Virtual Relation DB_AMGPD

Figure 1 : Virtual Relation DN_FEATS

Figure 1 : Virtual Relation DNLPT

Figure 1 : Virtual Relation DSLEQUIP

Figure 1 : Virtual Relation FACFTDSC

Figure 1 : Virtual Relation FC_LINE

Figure 1 : Virtual Relation FC_PORTTYP

Figure 1 : Virtual Relation FC_TRUNK

Figure 1 : Virtual Relation FRBC_SVC

Figure 1 : Virtual Relation GROUP_PORT

Figure 1 : Virtual Relation IPINTCNF

Figure 1 : Virtual Relation IS_LINE

Figure 1 : Virtual Relation IS_TERM

Figure 1 : Virtual Relation LDPINDX

Figure 1 : Virtual Relation LPTSPID

Figure 1 : Virtual Relation MWPORT

Figure 1 : Virtual Relation PCRTOIP

Figure 1 : Virtual Relation PGGPMAP

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Figure 1 : Virtual Relation PORT_GROUP

Figure 1 : Virtual Relation PORTDATA

Figure 1 : Virtual Relation PP_MEM

Figure 1 : Virtual Relation PRISRVGP

Figure 1 : Virtual Relation PROTPARM

Figure 1 : Virtual Relation QPORT

Figure 1 : Virtual Relation RC_ACSRQ

Figure 1 : Virtual Relation RC_CDRMK

Figure 1 : Virtual Relation RC_CLEI

Figure 1 : Virtual Relation RC_CNINF

Figure 1 : Virtual Relation RC_DNINFO

Figure 1 : Virtual Relation RC_EQLOC

Figure 1 : Virtual Relation RC_IDDD

Figure 1 : Virtual Relation RC_IDRMK

Figure 1 : Virtual Relation RC_LDRMK

Figure 1 : Virtual Relation RC_OEINFO

Figure 1 : Virtual Relation RC_PDRMK

Figure 1 : Virtual Relation RC_PGRPRMK

Figure 1 : Virtual Relation RC_RDRMK

Figure 1 : Virtual Relation RC_SCRN

Figure 1 : Virtual Relation RC_SFG

Figure 1 : Virtual Relation RC_TRK

Figure 1 : Virtual Relation RC_UNRMK

Figure 1 : Virtual Relation RCAPDATA

Figure 1 : Virtual Relation RCTGRPRK

Figure 1 : Virtual Relation RT_SCRNING

Figure 1 : Virtual Relation RTDNMOD

Figure 1 : Virtual Relation RTLIST

Figure 1 : Virtual Relation SHTERM

Figure 1 : Stored Structure of Virtual Relation TD_CODE

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Figure 1 : Stored Structure of Virtual Relation TD_SCHED

Figure 1 : Stored Structure of Virtual Relation TG_LTMER

Figure 1 : Stored Structure of Virtual Relation TG2MBRa

Figure 1 : Stored Structure of Virtual Relation TGMBR_AM

Figure 1 : Stored Structure of Virtual Relation TRMFEATS

Figure 1 : Stored Structure of Virtual Relation TSMTRING

Figure 1 : Virtual Relation UN_ONRMK

Figure 1 : Virtual Relation UNITDATA

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## List of Exhibits

Exhibit 1-1 : Relation/Parameter

Exhibit 1-2 : rc-oda-rules

Exhibit 1-3 : default rules

Exhibit 1-4 : distribution-rules

Exhibit 1-5 : attribute

Exhibit 1-6 : for statement

Exhibit 1-7 : for Statement Processor Specification

Exhibit 1-8 : for Statement Example

Exhibit 1-9 : for Statement Example

Exhibit 1-10 : for Statement Example

Exhibit 1-11 : Nest Form — for Statement

Exhibit 1-12 : Ranging

Exhibit 1-13 : Factors

Exhibit 1-14 : Factors

Exhibit 1-15 : Where Clause

Exhibit 1-16 : Where Clause - for Statement

Exhibit 1-17 : if Statement

Exhibit 1-18 : if Statement

Exhibit 1-19 : if Statement

Exhibit 1-20 : Two Attributes

Exhibit 1-21 : Arithmetic Samples

Exhibit 1-22 : Attribute Value

Exhibit 1-23 : Attribute Constant Value

Exhibit 1-24 : Single Element Attribute

Exhibit 1-25 : Single Element Array

Exhibit 1-26 : Bit Slicing

Exhibit 1-27 : Bit Single Element

Exhibit 1-28 : Pseudoarry Attribute

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Exhibit 1-29 : dotflw2 Attribute

Exhibit 1-30 : Synonym - Simple Assertion Statement

Exhibit 1-31 : Set Value of Attribute

Exhibit 1-32 : is_in Operator

Exhibit 1-33 : Set of Values

Exhibit 1-34 : subset_of Statement

Exhibit 1-35 : Variable Match

Exhibit 1-36 : No Variable Match

Exhibit 1-37 : Assertion Statement

Exhibit 1-38 : Logical Operator

Exhibit 1-39 : Valid Combinations Statement

Exhibit 1-40 : Valid Combinations Statement

Exhibit 1-41 : find Statement Key Words

Exhibit 1-42 : find Statement

Exhibit 1-43 : Another find Statement

Exhibit 1-44 : find Statement Searches

Exhibit 1-45 : find Statement Searches

Exhibit 1-46 : find Processor Specification

Exhibit 1-47 : Tuple Variable

Exhibit 1-48 : Find Statement Variable

Exhibit 1-49 : Where Clause in Find Statement

Exhibit 1-50 : When_Found Clause

Exhibit 1-51 : Nested Find Statement

Exhibit 1-52 : Select Statements

Exhibit 1-53 : Select Statements

Exhibit 1-54 : Let Statements

Exhibit 1-55 : Nesting Blocks - Let Statements

Exhibit 1-56 : Label

Exhibit 1-57 : Function Header

Exhibit 1-58 : Parameter and Return-Value

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Exhibit 1-59 : idx Variable

Exhibit 1-60 : bidx Variable

Exhibit 1-61 : var Variable - simple Statement

Exhibit 1-62 : var Variable - find Statement

Exhibit 1-63 : var Variable - Logical Expression

Exhibit 1-64 : varx2 Variable

Exhibit 1-65 : List of Variables

Exhibit 1-66 : Count Expression

Exhibit 1-67 : varx1 Variable

Exhibit 1-68 : arr Array

Exhibit 1-69 : arr Array

Exhibit 1-70 : Array Slicing

Exhibit 1-71 : Shorthand

Exhibit 1-72 : Bit Slicing

Exhibit 1-73 : Array and Bit Slicing

Exhibit 1-74 : assert Statement

Exhibit 1-75 : break Statement

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